



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:25 PM GMT

PDB ID : 4V4X
Title : Crystal structure of the 70S *Thermus thermophilus* ribosome showing how the 16S 3'-end mimicks mRNA E and P codons.
Authors : Jenner, L.; Yusupova, G.; Rees, B.; Moras, D.; Yusupov, M.
Deposited on : 2006-06-27
Resolution : 5.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

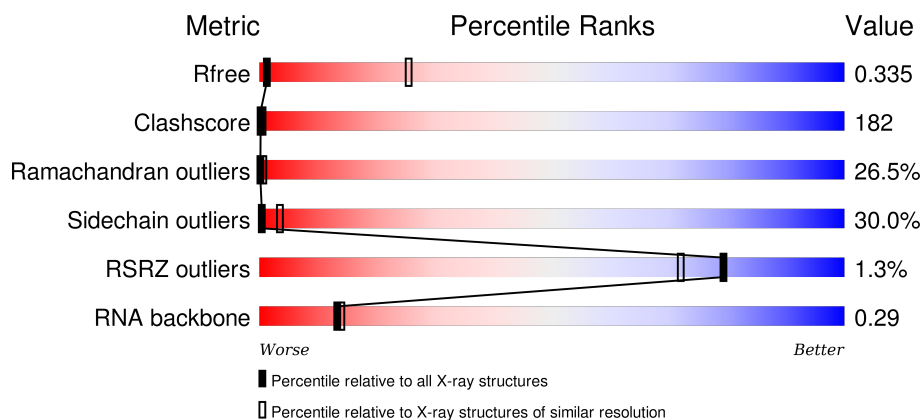
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 5.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1119 (6.22-3.60)
Clashscore	102246	1019 (6.22-3.66)
Ramachandran outliers	100387	1158 (6.22-3.60)
Sidechain outliers	100360	1136 (6.22-3.60)
RSRZ outliers	91569	1122 (6.22-3.60)
RNA backbone	2183	1097 (7.04-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	<div> <div style="width: 55%;"></div> <div style="width: 34%;"></div> <div style="width: 9%;"></div> </div>
2	AC	77	<div> <div style="width: 45%;"></div> <div style="width: 42%;"></div> <div style="width: 10%;"></div> </div>
3	AD	76	<div> <div style="width: 54%;"></div> <div style="width: 42%;"></div> </div>
4	AE	256	<div> <div style="width: 48%;"></div> <div style="width: 34%;"></div> <div style="width: 7%;"></div> <div style="width: 9%;"></div> </div>

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Mol	Chain	Length	Quality of chain
5	AF	239	
6	AG	209	
7	AH	162	
8	AI	101	
9	AJ	156	
10	AK	138	
11	AL	128	
12	AM	105	
13	AN	129	
14	AO	132	
15	AP	126	
16	AQ	61	
17	AR	89	
18	AS	88	
19	AT	105	
20	AU	88	
21	AV	93	
22	AW	106	
23	AX	27	
24	BA	2916	
25	BB	123	
26	BC	229	
27	BD	276	
28	BE	206	
29	BF	210	

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Mol	Chain	Length	Quality of chain
30	BG	182	
31	BH	180	
32	BK	148	
33	BL	147	
34	BM	140	
35	BN	122	
36	BO	150	
37	BP	141	
38	BQ	118	
39	BR	112	
40	BS	146	
41	BT	118	
42	BU	101	
43	BV	113	
44	BW	96	
45	BX	110	
46	BY	206	
47	BZ	85	
48	B1	67	
49	B2	60	
50	B3	71	
51	B4	60	
52	B5	54	
53	B6	49	
54	B7	65	

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Mol	Chain	Length	Quality of chain
55	B8	37	<div><div></div><div>5%</div><div>54%</div><div>38%</div><div></div></div>

2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 149044 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1515	Total	C	N	O	P	0	0	0
			32554	14490	6022	10527	1515			

- Molecule 2 is a RNA chain called tRNA fMET (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AC	76	Total	C	N	O	P	0	0	0
			1624	723	295	530	76			

- Molecule 3 is a RNA chain called tRNA PHE (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AD	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			

- Molecule 4 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AE	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			

- Molecule 5 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 6 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AG	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 7 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AH	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			

- Molecule 8 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 9 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 10 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 11 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	127	Total	C	N	O		0	0	0
			1010	639	197	174				

- Molecule 12 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

- Molecule 13 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 14 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AO	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			

- Molecule 15 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			

- Molecule 16 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 17 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 18 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AS	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 19 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AT	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			

- Molecule 20 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	AU	73	Total	C	N	O	0	0	0
			597	380	118	99			

- Molecule 21 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AV	80	Total	C	N	O	S	0	0	0
			647	414	119	112	2			

- Molecule 22 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	AX	24	Total	C	N	O	0	0	0
			208	128	50	30			

- Molecule 24 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BA	2889	Total	C	N	O	P	0	0	0
			62218	27691	11629	20009	2889			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	496	G	-	INSERTION	GB 48268

- Molecule 25 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BB	123	Total	C	N	O	P	0	0	0
			2641	1175	488	855	123			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	-1	A	-	INSERTION	GB 48271
BB	120	U	-	INSERTION	GB 48271

- Molecule 26 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BC	228	Total	C	N	O	S	0	0	0
			1742	1102	318	319	3			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	272	Total	C	N	O	S	0	0	0
			2124	1339	424	358	3			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	206	Total	C	N	O	S	0	0	0
			1578	997	302	273	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	208	Total	C	N	O	S	0	0	0
			1625	1034	303	286	2			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BG	182	Total	C	N	O	S	0	0	0
			1482	947	269	261	5			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	174	Total	C	N	O	S	0	0	0
			1328	844	248	235	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	148	Total	C	N	O	S	0	0	0
			1155	737	205	212	1			

- Molecule 33 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BL	138	Total	C	N	O	S	0	0	0
			1025	654	181	185	5			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BM	139	Total	C	N	O	S	0	0	0
			1113	717	207	186	3			

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BN	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BO	145	Total	C	N	O	S	0	0	0
			1106	688	226	190	2			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BP	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BQ	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BR	110	Total	C	N	O	0	0	0
			877	553	175	149			

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BS	117	Total	C	N	O	S	0	0	0
			976	614	197	164	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BT	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BU	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BV	110	Total	C	N	O	S	0	0	0
			876	552	171	151	2			

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BW	94	Total	C	N	O	0	0	0
			742	483	133	126			

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BX	110	Total	C	N	O	S	0	0	0
			844	539	158	141	6			

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BY	180	Total	C	N	O	S	0	0	0
			1435	916	256	260	3			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BZ	85	Total	C	N	O	S	0	0	0
			670	415	141	112	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B1	67	Total	C	N	O	S	0	0	0
			567	350	116	99	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B2	59	Total	C	N	O	S	0	0	0
			469	298	90	81				

- Molecule 50 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B3	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B4	57	Total	C	N	O	S	0	0	0
			445	279	87	74	5			

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B5	49	Total	C	N	O	S	0	0	0
			426	265	87	70	4			

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B6	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B7	64	Total	C	N	O	S	0	0	0
			515	331	102	79	3			

- Molecule 55 is a protein called 50S ribosomal protein L36.

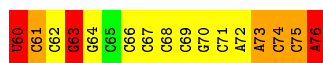
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B8	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

G1529	G1469	C1404	U1345	A1285	A1225	G1164	G1104	A1044	C989	G929	C869	A802	G742
G1530	G1470	G1405	A1346	A1286	C1226	C1165	A1105	C1045	C990	C930	U870	G803	U743
A1531	G1471	U1406	G1347	A1287	A1227	A1166	A1106	A1046	U991	C931	U871	U804	C744
U1532	G1472	C1407	U1348	A1288	C1228	A1167	C1107	G1047	U992	G932	A872		C745
C1533	A1473	A1408	A1349	A1289	A1229	A1169	G1048	G993	G993	G933	A873	A807	A746
A1534	G1474	C1409	A1350	G1290	C1230	A1170	C1109	U1049	A994	G934	G874	C808	C747
C1535	G1475	G1410	U1351	G1291	G1231	G1171	A1110	G1050	C995	A935	C875	G809	C748
C1536	G1476	C1411	C1352	U1292	U1232	C1172	A1111	C1051	A996	C936	G876	C810	C749
U1537	C1477	C1412	G1353	G1293	G1233	G1173	C1112	U1052	U997	A937	C877	C811	G750
C1538	C1478	A1413	C1354	G1294	C1234	G1174	C1113	G1053	C998A	A938	G878	C812	U751
C1539	C1479	A1414	G1355	G1295	U1235	G1175	C1114	C1054	C998A	A939	C879	C813	G752
U1540	G1480	G1415	C1356	G1296	U1236	A1176	C1115	A1055	U999	C940	C880	A814	C753
U1541	U1481	G1416	A1357	C1297	C1237	G1177	C1116	U1056	A1000	G941	C881	A815	G754
U1542	G1482	C1417	U1358	C1298	A1238	G1178	G1117	G1057	G1001	G942	C882	A816	G755
C	A1483	A1418	C1359	A1299	A1239	A1179	C1118	G1058	C1002	U943	C883	C817	C756
U	C1484	G1419	A1360	G1300	U1240	A1180	C1119	C1059	G1003	U944	U884	G818	U757
	U1485	C1420	G1361	U1301	C1241	G1181	C1120	A1004	A1004	G945	G885	A819	G758
	G1486	G1421	C1362	U1302	G1242	G1182	U1121	C1060	A1005	A946	C886	U820	A759
	G1487	G1422	A1362A	C1303	C1243	A1183	U1122	U1062	C1006	G947	C887	G821	G760
	G1488	G1423	A1363	G1304	C1244	G1184	A1123	C1063	C1007	C948	G888	C822	G761
	G1489	C1424	A1364	G1305	A1245	G1185	G1124	G1064	C1008	A949	G889	G823	G762
	G1490	U1425	G1365	A1306	C1246	G1186	U1125	U1065	G1009	U950	G890	C824	G763
	G1491	C1426	C1366	U1307	U1247	G1187	U1126	C1066	G1010	G951	U891	G825	C764
	A1492	U1427	C1367	U1308	A1248	A1188	G1127	A1067	G1011	U952	G892	G826	G765
	A1493	A1428	G1368	G1309	C1249	C1189	C1128	G1068	U1012	G953	C893	U827	A766
	G1494	C1429	C1369	G1310	A1250	G1190	C1129	C1069	G1013	G954	G894	A828	A767
	U1495	C1430	G1370	G1311	A1251	A1191	A1130	U1070	A1014	U955	G895	G829	A768
	C1496	C1431	G1371	A1312	A1252	C1192	G1131	C1071	C1071	U956	C896	G830	G769
	G1497	G1432	U1372	C1313	G1253	G1193	C1132	G1072	A1016	G957	C897	U831	C770
	U1498	A1433	G1373	C1314	C1254	U1194	G1133	U1073	G1017	A958	C898	C832	G771
	A1499	A1434	A1374	G1315	G1255	G1195	G1134	G1074	C1018	A959	C899	U833	U772
	A1500	G1435	A1375	G1316	A1256	U1196	U1335	C1075	C1019	U860	A900	C834	G773
	C1501	U1436	C1376	C1317	U1257	G1197	U1136	C1076	U1020	U961	A901	U835	G774
	A1502	C1437	A1377	A1318	G1258	G1198	C1137	U1077	G1021	G962	G902	G836	G775
	G1503	G1438	G1378	A1319	C1259	U1199	G1138	U1078	G1022	G963	G903	G837	G776
	G1504	C1439	G1379	C1320	C1260	G1200	G1139	G1079	C1023	A964	C904	G838	A777
	G1505	G1440	U1380	C1321	A1261	A1201	C1140	A1080	G1024	A965	U905	U841	G778
	U1506	G1441	U1381	G1322	C1262	G1202	C1141	G1081	U1025	G966	G906	C842	G779
	A1507	G1442	C1382	G1323	C1263	C1203	G1142	G1082	G1026	C967	A907	U843	A780
	G1508	G1443	C1383	A1324	C1264	A1204	G1143	U1083	C1027	A968	A908	C848	A781
	C1509	A1446	C1384	C1325	G1265	U1205	G1144	G1084	C1028	A969	A909	C849	A782
	U1510	G1447	G1385	C1326	G1266	G1206	C1145	U1085	C1028A	C970	C910	U850	C783
	G1511	C1448	G1386	C1327	C1267	G1207	A1146	U1086	C1028B	G971	U911	G851	C784
	U1512	G1449	G1387	G1328	A1268	C1208	C1147	G1087	G1039	C972	C912	G852	G785
	A1513	U1450	C1388	A1329	A1269	C1209	U1148	G1088	C1030	G973	A913	G853	G786
	C1514	A1451	C1389	U1330	C1270	C1210	C1149	G1089	G1031	A974	A914	G854	A787
	G1515	C1452	U1390	G1331	G1271	U1211	U1150	U1090	A1032	A975	A915	G855	U788
	G1516	G1453	U1391	A1332	G1272	A1151	U1091	G1032A	G1032B	G976	G916	C856	U789
	U1517	G1454	C1392	A1333	G1273	A1152	A1092	G1032B	G1032B	A977	G917	C857	A790
	A1518	U1393	G1393	G1334	G1274	C1214	C1153	A1093	G1033	A978	A918	G858	G791
	C1519	C1455	A1394	C1335	A1275	G1215	G1154	G1094	G1034	C979	A919	A859	A792
	G1520	A1460	C1395	C1336	G1276	G1216	G1155	U1095	A1035	C980	U920	A860	A793
	G1521	G1461	A1396	G1337	C1277	C1217	G1156	C1096	G1036	U981	U921	G861	A794
	U1522	G1462	C1397	G1338	U1278	C1218	A1157	C1097	C1037	U982	G922	C862	C795
	C1523	G1463	A1398	A1339	U1279	U1219	C1158	G1098	C1038	A983	A923	U863	C796
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	C1525	C1465	C1400	U1341	U1281	G1221	G1160	G1100	U1040	C985	G925	A865	G798
	G1526	G1466	G1401	C1342	C1282	G1222	C1161	A1101	G1041	A986	G926	C866	G799
	U1527	G1467	C1402	G1343	G1283	C1223	C1162	A1102	G1042	G987	G927	G867	G800
	U1528	A1468	C1403	C1344	C1284	G1224	C1163	C1103	C1043	G988	G928	C868	U801

• Molecule 2: tRNA fMET (unmodified bases)

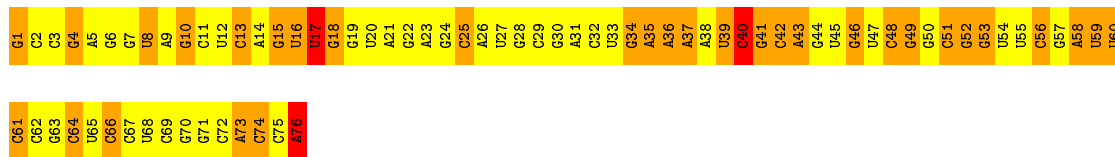
Chain AC:  45% 42% 10%

C1	G1
G2	G2
C3	G3
G4	G4
G5	G5
G6	G6
G7	G7
G8	G8
G9	G9
G10	G10
A11	G11
G12	G12
C13	G13
A14	G14
G15	G15
C16	G16
G17	G17
U	G18
G19	G19
G20	G20
A21	G21
G22	G22
G23	G23
U24	G24
C25	G25
G26	G26
G27	G27
G28	G28
G29	G29
G30	G30
G31	G31
C32	G32
G33	G33
C34	G34
A35	G35
U36	G36
A37	G37
A38	G38
C39	G39
C40	G40
C41	G41
G42	G42
A43	G43
G44	G44
G45	G45
G46	G46
U47	G47
G48	G48
G49	G49
U50	G50
C51	G51
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G53	G53
U54	G54
U55	G55
C56	G56
A57	G57
A58	G58
A59	G59



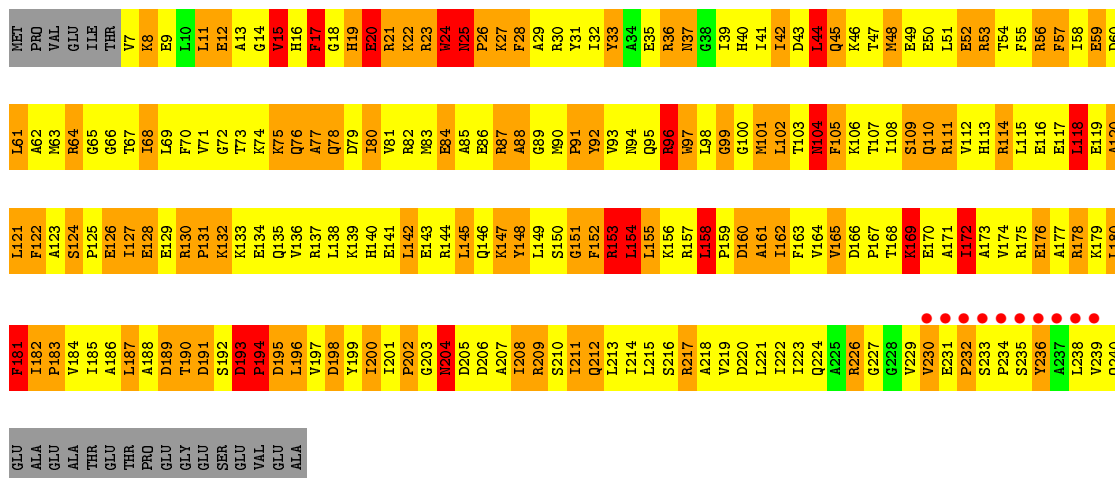
- Molecule 3: tRNA PHE (unmodified bases)

Chain AD: 54% 42%



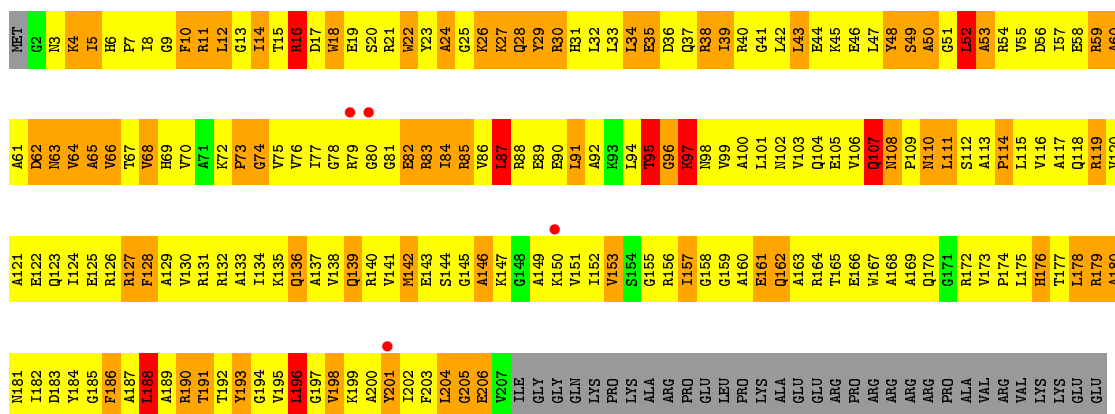
- Molecule 4: 30S ribosomal protein S2

Chain AE: 48% 34% 7% 9%



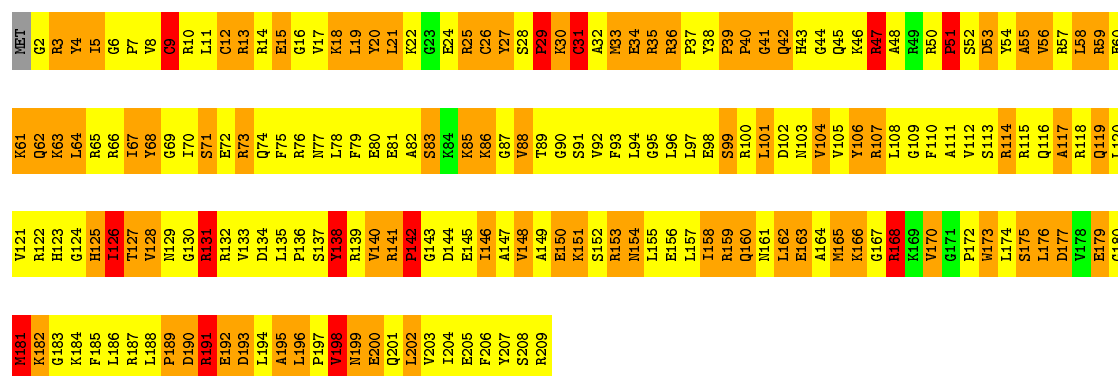
- Molecule 5: 30S ribosomal protein S3

Chain AF: 52% 28% 14% 2%

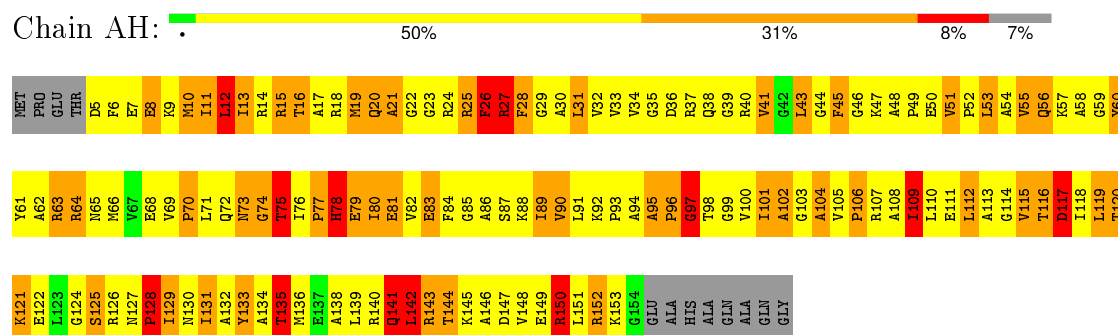


- Molecule 6: 30S ribosomal protein S4

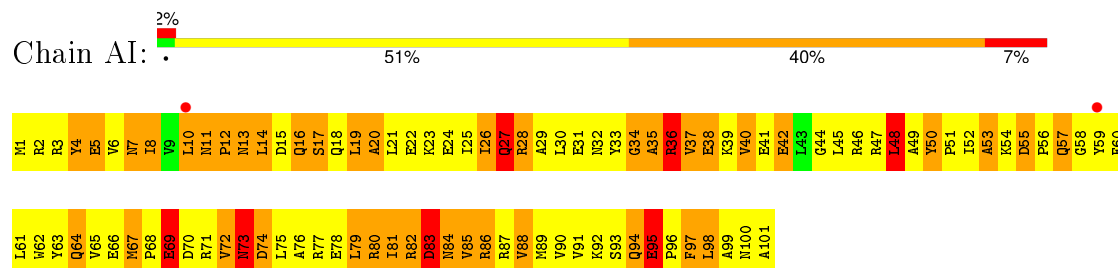
Chain AG: 52% 39% 6%



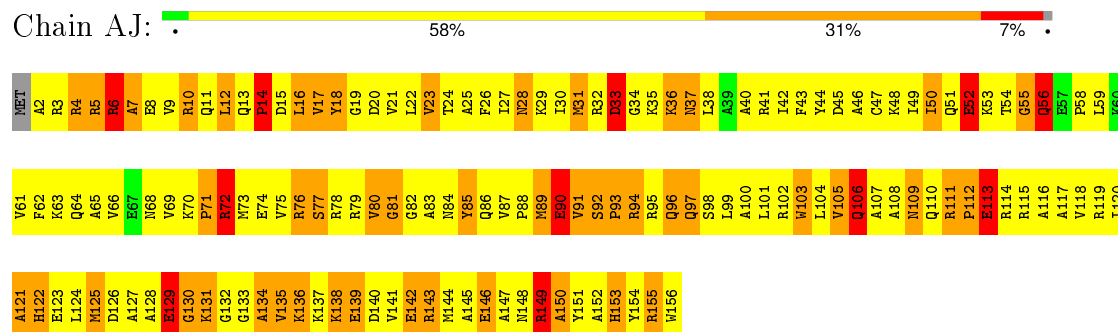
• Molecule 7: 30S ribosomal protein S5



• Molecule 8: 30S ribosomal protein S6

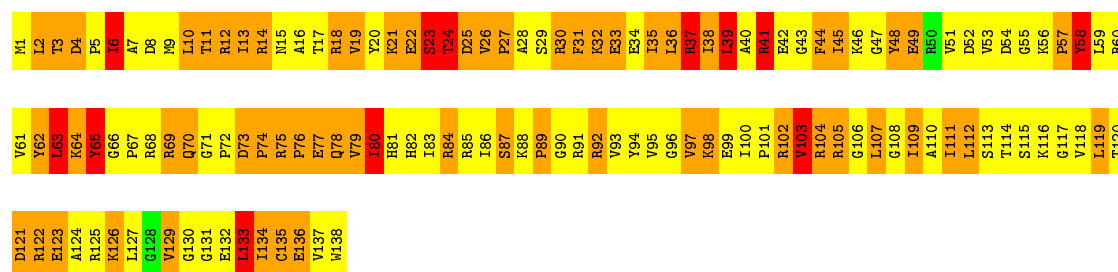


• Molecule 9: 30S ribosomal protein S7



• Molecule 10: 30S ribosomal protein S8

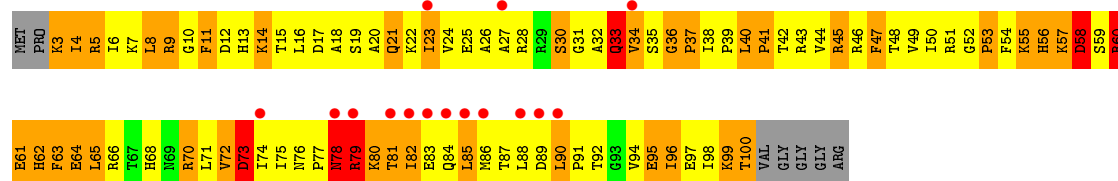




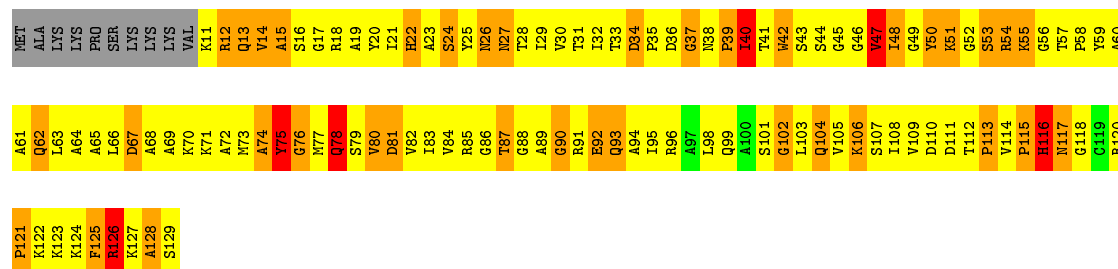
• Molecule 11: 30S ribosomal protein S9



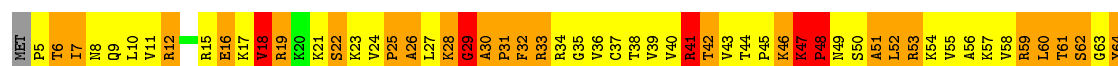
• Molecule 12: 30S ribosomal protein S10



• Molecule 13: 30S ribosomal protein S11



• Molecule 14: 30S ribosomal protein S12





• Molecule 15: 30S ribosomal protein S13

Chain AP: 60% 31% 6%



• Molecule 16: 30S ribosomal protein S14

Chain AQ: 7% 49% 33% 10%



• Molecule 17: 30S ribosomal protein S15

Chain AR: 57% 35% 6%



• Molecule 18: 30S ribosomal protein S16

Chain AS: 5% 48% 36% 6%



• Molecule 19: 30S ribosomal protein S17

Chain AT: 56% 38% 6%





- Molecule 20: 30S ribosomal protein S18



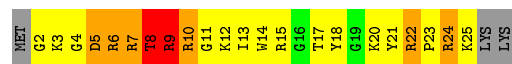
- Molecule 21: 30S ribosomal protein S19



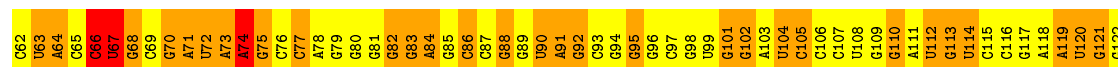
- Molecule 22: 30S ribosomal protein S20



- Molecule 23: 30S ribosomal protein Thx



- Molecule 24: 23S ribosomal RNA




U1094	G1034	C974A	C914	G853	A793	G733	G673	G635	G577	A515	A454	A394	C937	C277	G252	C192
A1095	U1035	G975	C915	G854	G794	A734	G674	G636	A578	C516	C485	U395	G338	A278	C253	U193
A1096	G1036	G976	G916	G855	C795	A735	A675	A637	C517	G317	C486	G396	U339	C279	G254	U194
U1097	G1037	G977	A917	C856	C796	A736	A676	G638	C580	G518	A457	G397	A340	C280	A255	A195
A1098	G1038	G978	A918	C857	C797	A737	A677	G639	C581	U519	G458	G398	G341	G281	A256	A196
G1099	G1039	G979	G919	U858	G798	C738	C678	G640	C582	G520	A459	G399	G342	A282	A257	A197
C1100	C1040	A980	G920	C859	G799	A739	C679	G641	C583	C521	A460	G400	C343	A283	G258	C198
U1101	G1041	A981	G921	U860	A800	U740	G680	G642	C584	C522	C461	A401	C344	A284	G259	A199
C1102	C1042	A982	U922	A861	G801	G741	G681	A643	C585	C523	C462	A402	A345	G284	G260	U200
A1103	C1043	A983	C923	G862	A802	G742	G682	A644	A586	U524	G463	U403	A346	C286	G261	C201
G1104	G1044	A984	A924	A863	U803	G743	C683	G645	C587	U525	U464	C404	A347	C287	A262	U202
U1105	A1045	C985	C925	G864	A804	G744	G684	A646	U588	A526	G465	U405	G348	C288	C263	C203
G1106	A1046	C986	A926	C865	G805	G745	G685	G647	C589	C527	A466	G406	G349	C289	C264	A204
G1107	G1047	G987	G928	A866	C806	A746	G686	G648	A590	A528	G467	G407	U850	G290	A265	G205
U1108	A1048	A988	G929	C867	U807	U747	C687	G649	A591	A529	G468	G408	G351	C291	G266	U206
C1109	C1049	G989	U930	U868	G808	G748	U688	C	C592	C530	G469	C409	G352	C292	C267	A207
A1110	A1050	A990	G931	G869	G809	C749	A689	G	U593	C531	A470	G410	G353	C293	C268	C208
G1111	G1051	C991	G932	A870	U810	A750	G690	C	U594	A532	A471	G411	G354	A294	U269	C209
C1112	C1052	C992	A933	U871	U811	A751	C691	A	C595	G533	A472	A412	G355	G295	A270	C210
U1113	C1053	G993	G934	A872	C812	A752	C692	A	U596	U534	G473	C413	G356	C296	A270A	A211
G1114	G1054	C994	C935	G873	U813	C753	C693	G	C597	C535	G474	C414	A357	C297	A270B	G212
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G1116	G1056	A996	U937	G875	C815	C755	G695	G	C599	C537	G476	C416	A359	A299	C270C	G214
G1117	A1057	G997	G938	C876	C816	C756	G696	G	G600	G539	A477	C417	G360	A300	C270E	G215
C1118	G1058	C998	G939	U877	C817	U757	C697	G	C601	C540	A478	G418	G361	G301	U270F	A216
G1119	G1059	U999	G940	A878	G818	C758	C698	C	G602	C541	A479	G	U862	C302	C270G	G217
G1120	U1060	A1000	A941	G879	A819	G759	A699	C	A603	C542	A480	C419	G363	U303	C270H	A218
C1121	U1061	A1001	G942	G880	A820	G760	G700	C	G604	C543	G481	C420	A363A	G304	C270I	G219
A1122	G1062	G1002	U943	G881	A821	A761	G701	C	C605	C544	A482	U421	G363B	U305	G270J	G220
C1123	G1063	G1003	G944	G882	U822	U762	G702	A	U606	G545	A483	A422	G363C	U306	C270K	A221
G1124	C1064	A1004	A945	G883	G823	G763	U703	C	U607	C546	C484	A423	G363D	G307	U270L	A222
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A1126	U1066	C1006	G947	C885	C825	G765	A705	C	A609	A548	C486	G425	A363F	G309	U270N	G224
C1127	A1067	C1007	G948	C886	U826	C766	A706	G	G609A	C549	G487	C426	C364	A310	U270O	A225
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C1129	C1069	G950	U950	C888	U828	G768	C708	C	C611	G551	G489	A428	G366	G312	C270Q	A227
U1130	A1070	C951	G951	C889	A829	G769	U709	C	G612	G552	G491	A429	G370	G313	G270R	A228
G1131	G1071	G952	A953	A890	G830	G770	G710	C	U613	U553	A492	G430	A371	A314	G270S	A229
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G1136	C1076	A957	A957	A896	A835	G775	G715	A655	G618	G559	A497	C435	C376	C319	G270X	C234
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A1141	U1081	A1021	G962	A901	C940	G780	C720	G660	G622	C564	A502	U441	G381	A324	U271C	U239
C1142	U1082	G1022	U963	C902	A841	A781	G721	G661	G623	C565	A503	G442	G382	G325	G271	G240
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A1148	A1088	A1028	U969	C908	U847	U787	A727	U667	G629	A571	C509	U448	G388	A331	C273D	G246
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C1150	G1090	G1030	C971	A910	A849	A789	G729	G669	A631	G573	U511	G450	A390	G333	C273F	G248
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G2104	G2044	G1984	C1924	G1855	C1795	G1728	U1859	C1600	G1540	G1479	U1420	A1360	U1300	U1240	C1180
C2105	C2045	G1985	C1925	G1856	U1796	U1729	C1660	U1601	U1541	G1480	G1421	G1361	A1301	A1241	C1181
G2106	G2046	A1986	U1926	G1857	U1797	U1730	G1661	G1602	G1542	U1482	G1422	C1362	A1302	A1242	A1182
C2107	U2047	G1987	A1927	G1858	U1798	G1731	C1662	A1603	A1543	G1483	G1423	C1363	G1303	G1243	G1183
G2108	G2048	C1988	A1928	U1859	G1799	A1732	G1663	C1604	C1544	G1484	G1424	G1364	C1304	G1244	G1184
U2109	G2049	G1989	G1929	G1860	G1733	G1734	A1664	C1605	A1545	G1485	G1425	A1365	C1305	G1245	C1185
C2110	C2050	C1990	G1930	G1861	C1734	G1735	A1665	G1606	A1546A	A1486	G1426	A1366	C1306	G1246	G1186
G2111	A2051	U1991	U1931	G1862	U1802	C1735	G1666	C1607	U1546	G1487	A1427	A1367	A1307	A1247	G1187
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C2113	G2053	U1993	G1933	U1864	C1804	G1742	A1668	A1609	G1548	U1489	G1429	G1369	A1309	U1249	A1189
A2114	A2054	C1994	C1934	G1869	U1805	G1743	A1669	A1610	C1549	A1490	C1430	C1370	G1310	G1250	G1190
G2115	C2055	U1995	G1935	C1870	C1806	G1746	G1670	C1611	C1550	G1491	U1431	G1371	G1311	C1251	G1191
G2116	G2056	G1996	A1936	A1871	G1807	G1747	U1671	C1612	C1551	G1492	C1432	U1372	U1312	G1252	G1192
A2117	A2057	G1997	A1937	G1872	U1808	G1748	C1672	G1613	G1552	C1493	U1433	A1373	U1313	A1253	G1193
U2118	A2058	G1998	A1938	G1878	A1809	A1749	U1673	A1614	A1553	A1494	A1434	G1374	C1314	A1254	A1194
A2119	A2059	C1999	U1939	C1879	G1810	G1750	G1674	C1615	A1554	A1495	G1435	C1375	C1315	U1255	G1195
G2120	A2060	G2000	U1940	C1880	G1811	C1751	C1675	A1616	G1555	A1496	G1436	C1376	U1316	G1256	C1196
C2121	G2061	G2001	C1941	C1881	G1812	G1752	A1677	C1617	C1556	U1497	C1437	G1377	A1317	G1257	G1197
U2122	A2062	G2002	C1942	C1882	G1813	G1753	A1678	A1618	C1557	G1498	U1438	A1378	G1318	C1258	U1198
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G2125	C2065	A2005	G1945	A1885	G1816	G1756	U1680	U1621	G1560	G1441	G1381	A1321	C1261	G1261	C1201
A2126	C2066	C2006	U1946	C1886	G1817	U1757	G1681	G1622	G1561	C1502	G1442	G1382	A1322	A1262	C1202
G2127	G2067	C2007	C1947	C1887	U1818	G1758	G1682	G1623	A1562	U1503	G1443	C1383	U1323	U1263	G1203
C2128	U2068	C2008	G1948	G1888	A1819	A1759	C1683	G1624	G1563	C1504	G1444	A1384	G1324	G1264	A1204
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A2134	U2074	C1984	A1894	A1825	G1765	A1689	A1689	G1630	A1569	A1510	A1449	U1390	C1330	C1270	A1210
U2135	U2075	U1955	G1895	G1826	U1766	U1766	A1690	C1630A	A1570	A1511	G1449A	U1391	A1331	G1271	U1211
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C2138	G2078	G2018	U1998	U1898	G1769	G1769	U1693	G1633	G1573	U1514	A1453	U1394	G1334	A1274	G1214

C2139	A2199	A2269	G2329	G2389	U2469	G2509	G2569	A2629	U2689	A2749	G2812	G2872
C2140	C2205	G2270	G2330	U2390	A2450	C2510	G2570	G2630	C2690	A2750	A2813	A2873
C2141	C2206	G2271	G2331	G2391	A2451	U2511	G2571	G2631	C2691	A2751	C2814	C2874
C2142	C2207	U2272	U2332	A2392	C2452	C2512	A2572	A2632	C2692	C2752	C2815	C2875
C2143	U2208	A2273	A2333	A2393	A2453	G2513	G2573	G2633	A2693	U2753	C2816	G2876
U2144	C2209	A2274	G2334	C2394	G2454	U2514	C2574	G2634	C2694	U2754	G2817	G2877
C2145	G2210	G2275	A2335	C2395	C2455	C2515	C2575	G2635	C2695	C2755	G2818	U2878
C2146	G2211	G2276	A2336	G2396	C2456	G2516	G2576	U2636	U2696	U2756	G2819	C2879
C2147	A2212	G2277	G2337	G2397	U2457	C2517	A2577	U2637	G2697	U2757	A2820	C2880
G2148	G2213	G2278	G2338	U2398	C2458	A2518	G2578	G2638	U2698	A2758	A2821	C2881
G2149	G2215	G2279	G2339	G2399	A2459	U2519	G2579	A2639	C2699	C2759	C2822	A2882
U2150	G2216	G2280	G2400	G2400	U2460	C2520	U2580	G2640	C2700	C2760	A2823	C2883
G2151	G2217	C2281	G2341	U2401	C2461	C2521	G2581	G2641	C2701	G2761	C2824	U2884
G2152	G2218	G2282	C2342	C2402	U2462	U2522	G2582	G2642	U2702	G2762	C2825	C2885
G2153	G2219	C2283	C2343	C2403	C2463	G2523	G2583	G2643	C2703	G2763	C2826	U2886
G2154	G2224	C2284	C2344	C2404	C2464	G2524	U2584	G2644	C2704	G2764	A2827	U2887
G2155	A2225	C2285	G2345	C2405	C2465	G2525	U2585	G2645	A2705	A2765	C2828	C2888
G2156	A2226	A2286	A2346	U2406	C2466	G2526	C2586	C2646	G2706	G2766	C2829	C2889
G2157	A2227	A2287	C2347	G2407	C2467	C2527	A2587	U2647	G2707	C2767	G2830	G2891
A2158	G2228	A2288	U2348	U2408	G2468	U2528	G2588	C2648	G2708	C2768	G2831	A2892
G2159	G2229	A2289	U2349	A2409	A2469	A2529	A2589	U2649	G2709	C2769	U2832	C2893
G2160	G2230	G2290	C2350	G2410	A2470	A2530	U2590	U2650	C2710	C2770	C2833	G2894
C2161	C2231	U2291	G2351	A2411	C2471	A2531	C2591	C2651	A2711	C2771	G2834	U2895
G2162	U2232	C2292	A2352	A2412	G2472	G2532	G2592	C2652	U2712	C2772	A2835	C2896
C2163	U2233	C2293	G2353	G2413	U2473	A2533	U2593	U2653	A2713	C2773	U2836	U2897
C2164	G2234	C2294	G2354	G2414	C2474	A2534	C2594	A2654	A2714	C2774	G2837	U2898
G2165	G2235	C2295	C2355	G2415	C2475	G2535	G2595	G2655	G2715	A2775	G2838	C2899
G2166	C2236	U2296	C2356	A2416	A2476	G2536	U2596	U2656	C2716	C2776	C2839	A2900
U2167	G2237	C2297	U2357	C2417	C2477	U2537	G2597	A2657	U2717	G2777	C2840	C2901
G2168	G2238	A2298	C2358	A2418	A2478	C2538	A2598	C2658	G2718	U2778	C2841	C2902
A2169	G2239	G2299	C2359	U2419	G2479	C2539	U2599	G2659	G2719	G2779	G2842	C
A2170	C2240	G2300	A2360	C2420	C2480	C2540	A2600	A2660	G2720	G2780	G2843	C
A2171	A2241	C2301	A2361	A2421	C2481	A2541	A2601	A2661	A2721	A2781	A2844	U
U2172	A2242	G2302	G2362	A2422	G2482	A2542	A2602	A2662	C2722	G2782	C2845	C
A2173	U2243	G2303	C2363	U2423	C2483	G2543	G2603	G2663	C2723	C2783	U2846	G3
C2174	U2244	G2304	C2364	C2424	G2484	G2544	U2604	G2664	C2724	C2784	U2847	U3
C2175	U2245	A2305	G2365	A2425	G2485	G2545	U2605	A2665	C2725	G2785	G2848	U3
A2176	G2246	C2306	A2366	A2426	G2486	U2546	C2606	C2666	A2726	U2786	U2849	U3
C2177	A2247	G2307	G2367	C2427	G2487	U2547	G2607	C2667	U2727	C2787	A2850	U
C2178	G2248	G2308	C2368	G2428	A2488	G2548	G2608	G2668	C2728	C2788	A2851	C
C2179	U2249	A2309	A2369	G2429	G2489	G2549	U2609	G2669	U2729	C2789	C2852	A3
U2180	G2250	A2310	G2370	A2430	G2490	G2550	C2610	A2670	G2730	A2790	C2853	A3
G2181	G2251	A2311	G2371	U2431	U2491	C2551	U2611	A2671	C2731	G2791	G2854	U4
G2182	G2252	U2312	G2372	A2432	U2492	U2552	G2612	G2672	G2732	C2792	C2855	C4
C2183	G2253	C2313	G2373	A2433	U2493	G2553	U2613	G2673	A2733	G2793	C2856	C4
G2184	G2254	C2314	C2374	A2434	G2494	U2554	A2614	G2674	A2734	C2794	G2857	G4
C2185	G2255	G2315	G2375	A2435	G2495	U2555	U2615	A2675	C2735	C2795	C2858	A4
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G2187	U2257	C2317	A2377	U2437	A2497	G2557	G2617	G2677	C2737	C2797	A2860	G5
G2188	G2258	G2318	A2378	U2438	C2498	C2558	G2618	G2678	A2738	A2798	G2861	G5
U2189	G2259	G2319	G2379	A2439	C2499	C2559	C2619	A2679	U2739	A2799	G2862	G6
G2190	G2260	A2320	C2380	C2440	U2500	C2560	C2620	C2680	A2740	G2800	C2863	G6
G2191	C2261	C2321	C2381	C2441	C2501	A2561	A2621	C2681	A2741	C2801	G2864	G7
G2192	U2262	A2322	G2382	C2442	G2502	U2562	C2622	U2682	C2742	C2802	U2865	G8
G2193	G2263	G2323	C2383	G2443	A2503	U2563	C2623	C2683	C2743	G2803	C2866	G9
G2194	C2264	C2324	G2384	G2444	U2504	A2564	G2624	U2684	G2744	G2804	G2867	G10
C2195	U2265	G2325	C2385	G2445	G2505	A2565	G2625	G2685	C2745	U2805	A2868	G11
C2196	A2266	C2326	C2386	G2446	U2506	A2566	G2626	G2686	U2746	A2806	G2869	G12
U2197	A2267	G2327	C2387	G2447	C2507	G2567	G2627	U2687	G2747	A2807	C2870	G13
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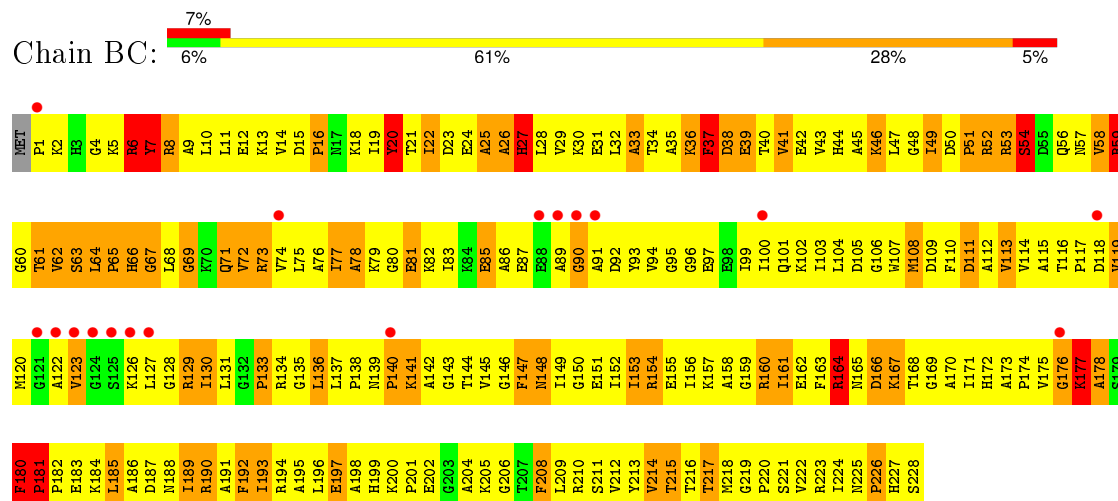
● Molecule 25: 5S ribosomal RNA

Chain BB:  46% 46% 7%

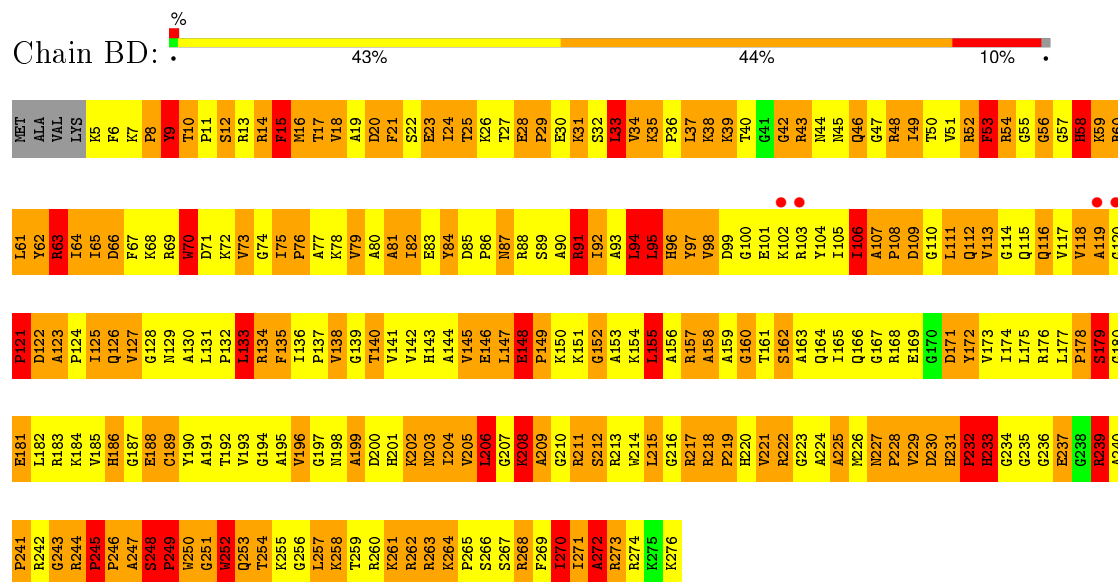
A-1	A59
A0	C60
U1	G61
C2	C62
C3	G63
C4	G64
C5	C65
C6	A66
G7	G67
U8	C68
G9	C69
C10	G70
C11	G71
C12	G72
A13	U73
U14	A74
A15	G75
G16	G76
C17	U77
G18	A78
C19	G79
A20	U80
G21	C81
U22	G82
G23	C83
C24	C84
A25	G85
A26	G86
C27	C87
C28	C88
A29	G89
A30	A90A
C31	C90
C32	C91
G33	C92
U34	C93
U35	C94
C36	U95
C37	G96
C38	G97
A39	C98
U40	A99
U41	G100
C42	A101
C43	G102
G44	U103
A104	A104
A45	G105
G106	C47
U107	A48
C108	C49
G109	C50
G110	G51
U111	A52
G112	A53
C113	G54
G114	U55
G115	G56
G116	A57
G117	A58

G118
A119
U120

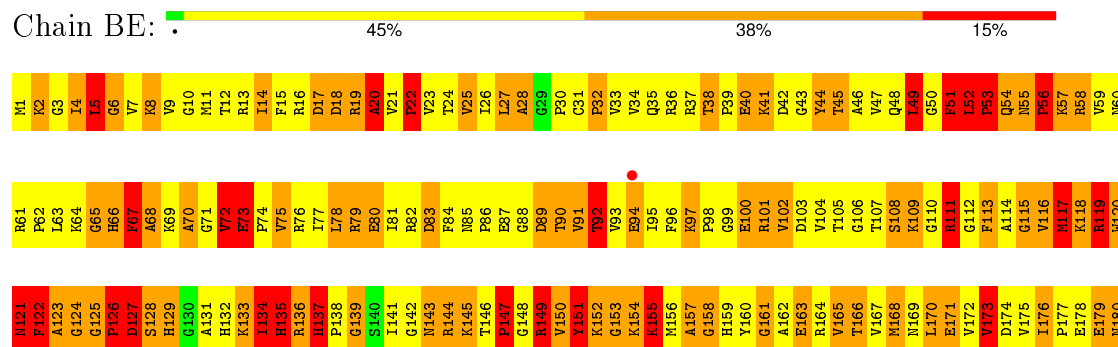
• Molecule 26: 50S ribosomal protein L1



• Molecule 27: 50S ribosomal protein L2



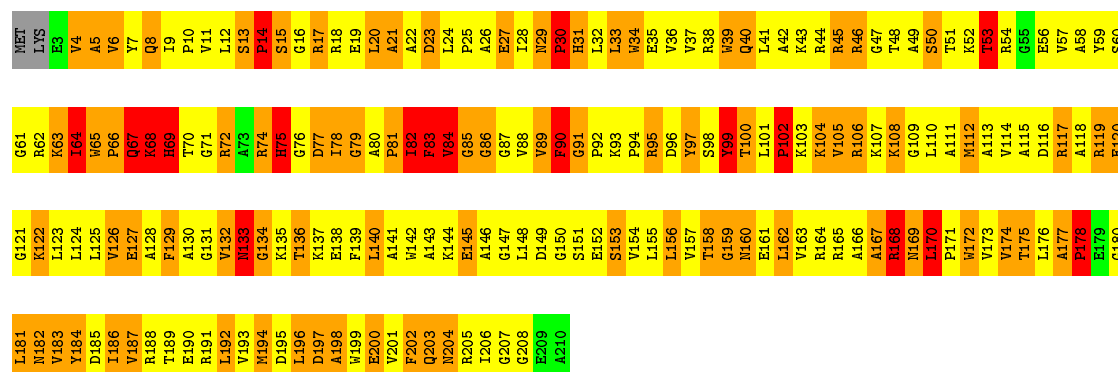
• Molecule 28: 50S ribosomal protein L3





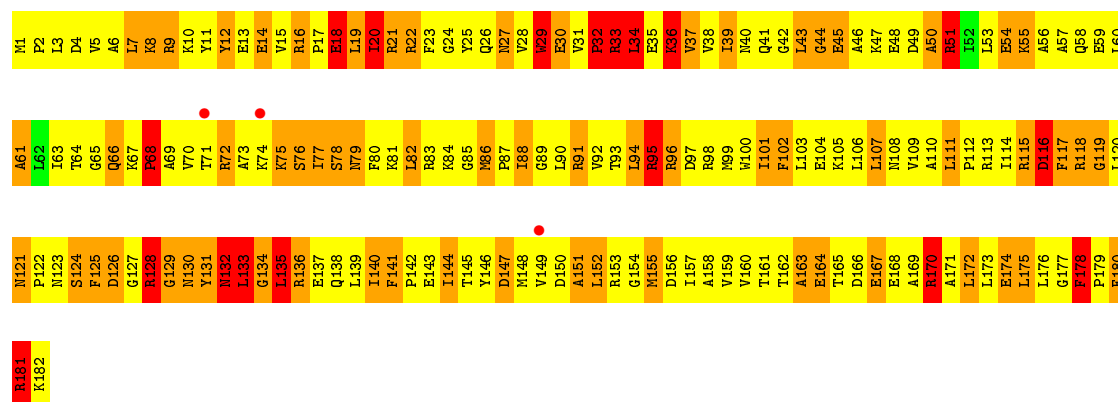
• Molecule 29: 50S ribosomal protein L4

Chain BF: . 50% 38% 9% .



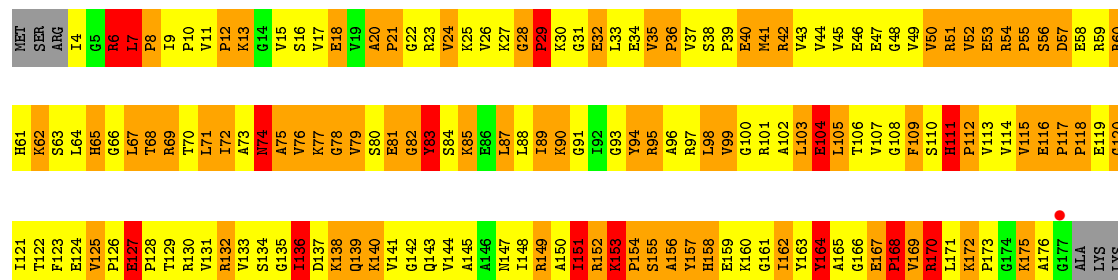
• Molecule 30: 50S ribosomal protein L5

Chain BG: . 2% 54% 35% 10%



• Molecule 31: 50S ribosomal protein L6

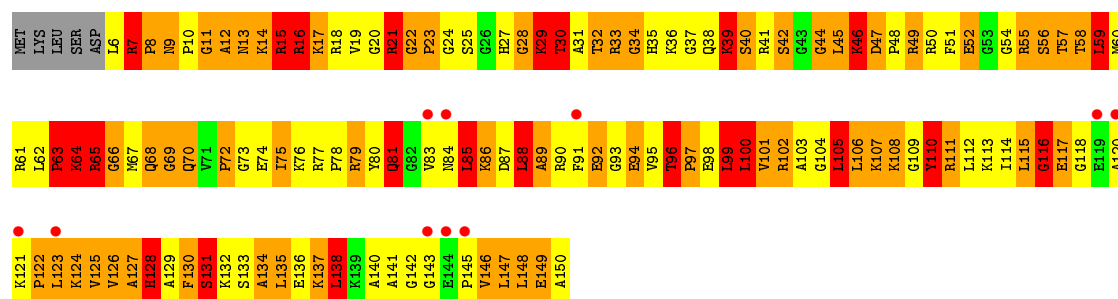
Chain BH: . % 45% 39% 8% .



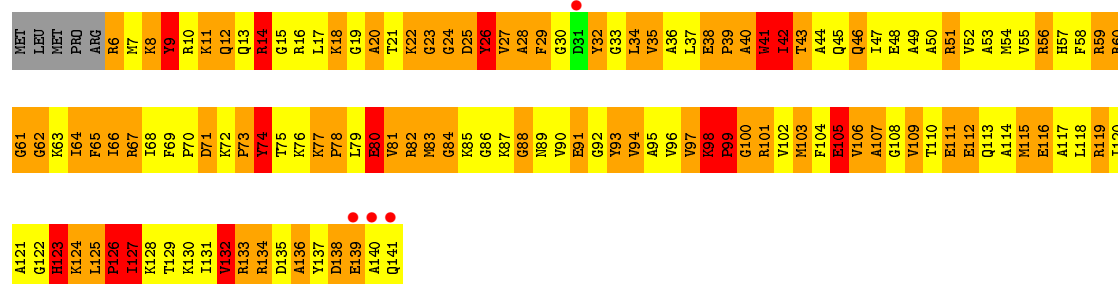
• Molecule 32: 50S ribosomal protein L9

Chain BK: . 57% 36% .

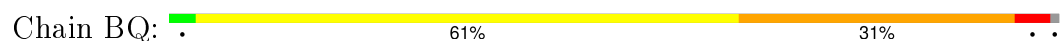




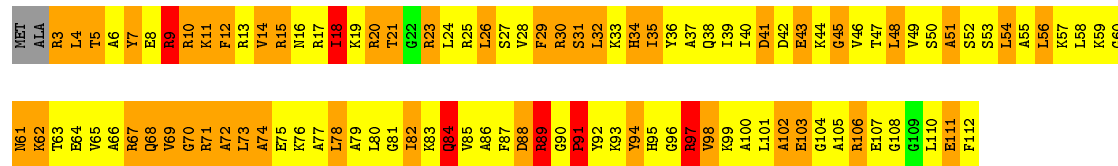
• Molecule 37: 50S ribosomal protein L16



• Molecule 38: 50S ribosomal protein L17

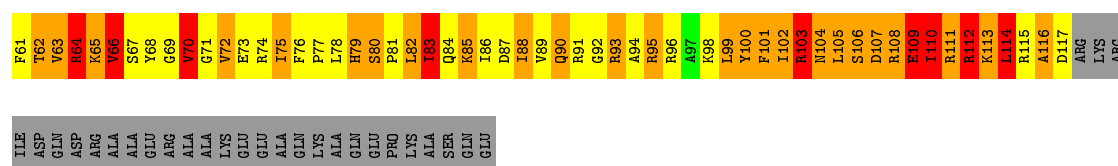


• Molecule 39: 50S ribosomal protein L18

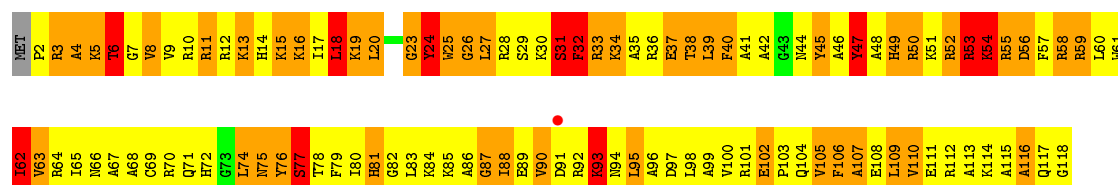


• Molecule 40: 50S ribosomal protein L19





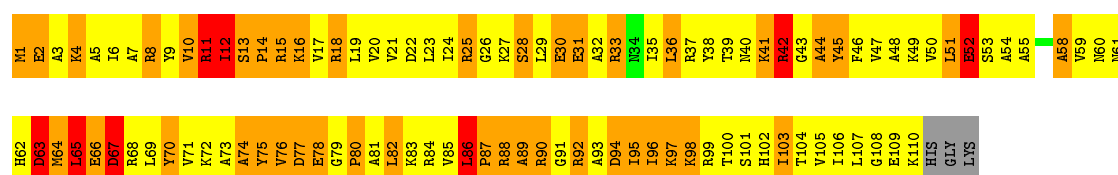
• Molecule 41: 50S ribosomal protein L20



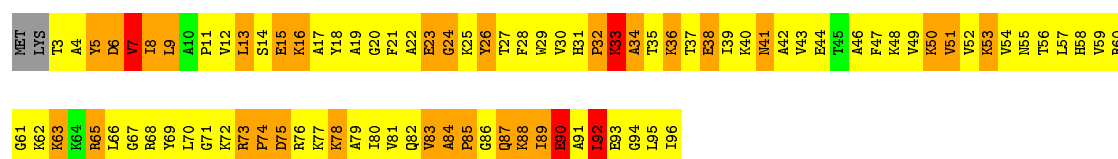
• Molecule 42: 50S ribosomal protein L21



• Molecule 43: 50S ribosomal protein L22

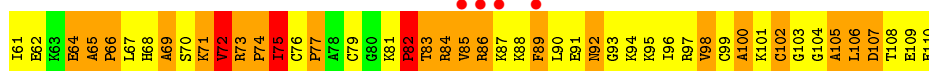


• Molecule 44: 50S ribosomal protein L23

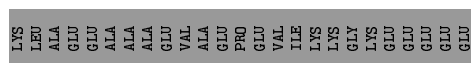
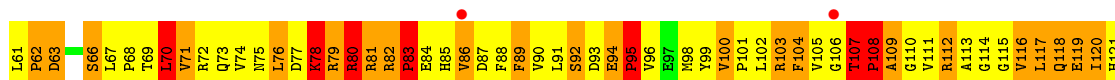
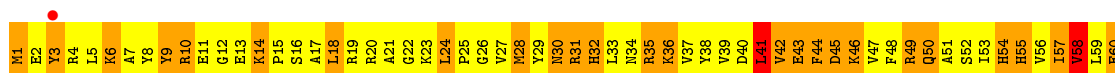


• Molecule 45: 50S ribosomal protein L24





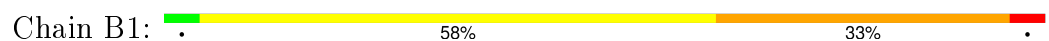
• Molecule 46: 50S ribosomal protein L25



• Molecule 47: 50S ribosomal protein L27



• Molecule 48: 50S ribosomal protein L29

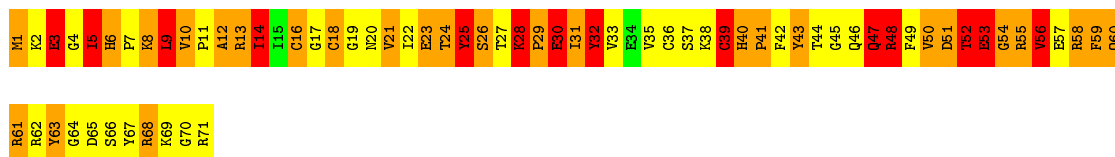


• Molecule 49: 50S ribosomal protein L30



• Molecule 50: 50S ribosomal protein L31

Chain B3: 



- Molecule 51: 50S ribosomal protein L32

Chain B4: 



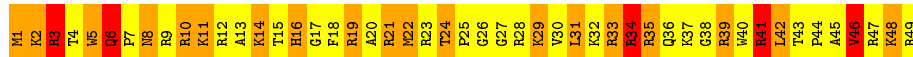
- Molecule 52: 50S ribosomal protein L33

Chain B5: 



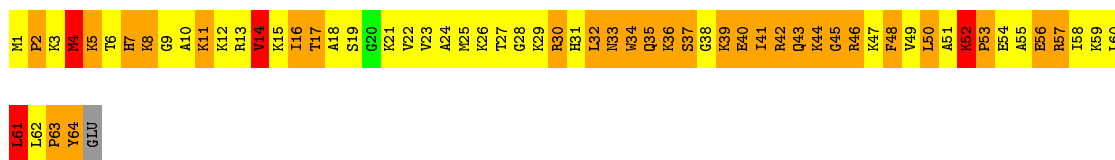
- Molecule 53: 50S ribosomal protein L34

Chain B6: 



- Molecule 54: 50S ribosomal protein L35

Chain B7: 



- Molecule 55: 50S ribosomal protein L36

Chain B8: 



4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, α , β , γ	509.52Å 509.52Å 804.94Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 5.00 430.52 – 4.80	Depositor EDS
% Data completeness (in resolution range)	93.9 (300.00-5.00) 96.7 (430.52-4.80)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.09 (at 4.88Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.263 , 0.323 0.282 , 0.335	Depositor DCC
R_{free} test set	10783 reflections (5.16%)	DCC
Wilson B-factor (Å ²)	99.7	Xtriage
Anisotropy	0.066	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.09 , 59.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.55$, $\langle L^2 \rangle = 0.39$	Xtriage
Outliers	1 of 252174 reflections (0.000%)	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	149044	wwPDB-VP
Average B, all atoms (Å ²)	167.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.30% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	AA	0.94	48/36438 (0.1%)	1.12	150/56869 (0.3%)
2	AC	1.00	1/1814 (0.1%)	0.92	3/2825 (0.1%)
3	AD	0.80	1/1813 (0.1%)	0.94	3/2823 (0.1%)
4	AE	0.65	0/1935	1.02	3/2609 (0.1%)
5	AF	0.55	0/1636	0.98	4/2205 (0.2%)
6	AG	0.68	1/1733 (0.1%)	1.07	5/2318 (0.2%)
7	AH	0.68	0/1162	1.06	2/1564 (0.1%)
8	AI	0.68	0/856	1.01	3/1154 (0.3%)
9	AJ	0.60	0/1276	0.90	0/1709
10	AK	0.68	0/1136	1.10	5/1527 (0.3%)
11	AL	0.54	0/1029	0.87	0/1379
12	AM	0.49	0/807	0.88	0/1085
13	AN	0.73	0/900	1.06	3/1213 (0.2%)
14	AO	0.67	0/986	1.12	6/1320 (0.5%)
15	AP	0.53	0/1008	0.90	2/1347 (0.1%)
16	AQ	0.57	0/501	1.01	1/664 (0.2%)
17	AR	0.71	0/745	1.00	1/992 (0.1%)
18	AS	0.72	0/716	1.05	3/963 (0.3%)
19	AT	0.73	0/870	1.07	2/1159 (0.2%)
20	AU	0.64	0/603	1.02	3/799 (0.4%)
21	AV	0.55	0/661	0.94	0/890
22	AW	0.77	0/765	1.03	1/1007 (0.1%)
23	AX	0.48	0/212	0.85	1/277 (0.4%)
24	BA	1.06	154/69685 (0.2%)	1.16	463/108786 (0.4%)
25	BB	0.86	4/2954 (0.1%)	1.01	8/4606 (0.2%)
26	BC	0.50	0/1775	0.89	2/2393 (0.1%)
27	BD	0.83	3/2174 (0.1%)	1.25	12/2927 (0.4%)
28	BE	0.86	2/1611 (0.1%)	1.29	13/2171 (0.6%)
29	BF	0.69	0/1660	1.11	8/2247 (0.4%)
30	BG	0.63	0/1507	1.05	4/2027 (0.2%)
31	BH	0.62	0/1354	1.06	5/1831 (0.3%)
32	BK	0.69	0/1170	1.08	2/1581 (0.1%)
33	BL	0.49	0/1044	0.90	1/1415 (0.1%)
34	BM	0.83	1/1140 (0.1%)	1.19	8/1537 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
35	BN	1.00	0/942	1.39	8/1268 (0.6%)
36	BO	0.79	0/1123	1.27	15/1493 (1.0%)
37	BP	0.85	1/1100 (0.1%)	1.27	6/1470 (0.4%)
38	BQ	0.69	0/974	1.08	2/1302 (0.2%)
39	BR	0.78	0/887	1.11	2/1180 (0.2%)
40	BS	0.95	0/990	1.44	13/1325 (1.0%)
41	BT	0.79	0/982	1.18	6/1306 (0.5%)
42	BU	0.90	1/790 (0.1%)	1.44	11/1057 (1.0%)
43	BV	0.78	0/886	1.11	2/1189 (0.2%)
44	BW	0.57	0/756	0.91	0/1015
45	BX	0.53	0/857	1.09	4/1142 (0.4%)
46	BY	0.66	0/1467	1.13	6/1992 (0.3%)
47	BZ	0.72	0/679	1.11	2/902 (0.2%)
48	B1	0.64	0/569	0.91	0/751
49	B2	0.63	0/474	1.08	1/635 (0.2%)
50	B3	1.00	2/594 (0.3%)	1.37	8/795 (1.0%)
51	B4	0.74	1/459 (0.2%)	1.12	2/621 (0.3%)
52	B5	0.91	0/433	1.61	7/576 (1.2%)
53	B6	0.81	0/438	1.03	1/575 (0.2%)
54	B7	0.70	0/523	1.23	3/690 (0.4%)
55	B8	0.69	0/310	1.19	2/407 (0.5%)
All	All	0.93	220/161909 (0.1%)	1.13	828/241910 (0.3%)

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	AA	0	217
2	AC	0	13
3	AD	0	7
5	AF	0	1
10	AK	0	1
13	AN	0	1
24	BA	0	546
25	BB	0	16
27	BD	0	2
28	BE	0	1
29	BF	0	1
31	BH	0	1
37	BP	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
40	BS	0	2
42	BU	0	2
43	BV	0	1
44	BW	0	1
50	B3	0	2
All	All	0	818

All (220) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1203	G	O3'-P	-34.70	1.19	1.61
24	BA	607	U	N3-C4	-31.59	1.10	1.38
24	BA	2501	C	O3'-P	24.61	1.90	1.61
24	BA	607	U	C2-N3	-22.10	1.22	1.37
1	AA	173	U	O3'-P	19.93	1.85	1.61
24	BA	607	U	C4-C5	19.62	1.61	1.43
24	BA	2499	C	O3'-P	-18.96	1.38	1.61
24	BA	2500	U	C4-O4	18.52	1.38	1.23
24	BA	2446	G	O3'-P	-17.45	1.40	1.61
1	AA	397	A	C6-N6	17.27	1.47	1.33
24	BA	1202	C	O3'-P	-16.02	1.42	1.61
1	AA	37	U	N1-C2	15.22	1.52	1.38
24	BA	621	A	C5-C6	-14.60	1.27	1.41
1	AA	37	U	C4-O4	-14.43	1.12	1.23
24	BA	1993	U	N1-C2	14.32	1.51	1.38
24	BA	2491	U	N1-C2	13.11	1.50	1.38
24	BA	621	A	N1-C2	-12.97	1.22	1.34
1	AA	37	U	N3-C4	-12.52	1.27	1.38
24	BA	775	G	N9-C4	11.64	1.47	1.38
24	BA	1626	G	C5'-C4'	10.70	1.64	1.51
24	BA	2460	U	N3-C4	10.60	1.48	1.38
1	AA	397	A	N3-C4	-10.40	1.28	1.34
24	BA	687	C	N1-C2	10.34	1.50	1.40
1	AA	961	U	C4-O4	-10.29	1.15	1.23
24	BA	2460	U	C2-N3	10.25	1.45	1.37
24	BA	1625	C	C3'-O3'	10.22	1.56	1.42
1	AA	397	A	C5-C6	10.19	1.50	1.41
24	BA	1956	U	N1-C2	9.86	1.47	1.38
24	BA	2063	C	N1-C2	9.76	1.50	1.40
24	BA	621	A	C5-C4	-9.36	1.32	1.38
24	BA	2612	C	N1-C2	9.29	1.49	1.40
1	AA	397	A	C6-N1	8.92	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1064	G	C5-C6	-8.74	1.33	1.42
24	BA	2755	C	O3'-P	-8.71	1.50	1.61
1	AA	1064	G	C2-N3	8.66	1.39	1.32
24	BA	2460	U	N1-C2	8.64	1.46	1.38
24	BA	2035	G	N9-C4	8.63	1.44	1.38
24	BA	775	G	C2-N3	8.62	1.39	1.32
24	BA	1359	A	C5-C6	-8.48	1.33	1.41
24	BA	2460	U	C4-O4	8.47	1.30	1.23
24	BA	2491	U	C2-N3	8.45	1.43	1.37
24	BA	1956	U	N3-C4	8.39	1.46	1.38
24	BA	917	A	C6-N1	8.32	1.41	1.35
24	BA	1786	A	N9-C4	8.28	1.42	1.37
24	BA	1789	A	C5-C6	8.17	1.48	1.41
34	BM	42	TRP	CB-CG	8.14	1.65	1.50
24	BA	1778	U	N3-C4	8.10	1.45	1.38
1	AA	697	U	N1-C2	8.10	1.45	1.38
24	BA	917	A	C5-C4	-8.09	1.33	1.38
27	BD	250	TRP	CB-CG	-7.71	1.36	1.50
24	BA	1303	G	C5-C6	7.70	1.50	1.42
3	AD	1	G	OP3-P	-7.61	1.52	1.61
24	BA	1950	G	C5-C6	7.44	1.49	1.42
24	BA	1993	U	C2-N3	7.41	1.43	1.37
1	AA	1192	C	N1-C2	7.38	1.47	1.40
24	BA	1	G	OP3-P	-7.31	1.52	1.61
1	AA	974	A	C6-N1	7.28	1.40	1.35
24	BA	2489	G	C6-O6	-7.25	1.17	1.24
25	BB	-1	A	OP3-P	-7.23	1.52	1.61
1	AA	974	A	C2-N3	7.21	1.40	1.33
24	BA	1824	G	N9-C4	-7.09	1.32	1.38
2	AC	1	C	OP3-P	-7.08	1.52	1.61
24	BA	2195	C	C3'-O3'	7.06	1.52	1.42
50	B3	48	ARG	CG-CD	7.04	1.69	1.51
1	AA	37	U	C2-O2	-7.03	1.16	1.22
24	BA	1786	A	C2-N3	6.98	1.39	1.33
24	BA	607	U	N1-C6	-6.98	1.31	1.38
42	BU	81	TYR	CB-CG	6.96	1.62	1.51
1	AA	114	U	N3-C4	-6.95	1.32	1.38
24	BA	2459	A	N9-C4	6.87	1.42	1.37
24	BA	1956	U	C2-N3	6.85	1.42	1.37
24	BA	1625	C	O3'-P	6.81	1.69	1.61
1	AA	37	U	N1-C6	6.79	1.44	1.38
24	BA	2461	C	C2-N3	-6.70	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	697	U	C2-N3	6.69	1.42	1.37
24	BA	1938	A	C5'-C4'	6.64	1.59	1.51
24	BA	1781	C	N1-C2	6.63	1.46	1.40
24	BA	2445	G	C6-O6	-6.62	1.18	1.24
24	BA	860	U	N3-C4	-6.61	1.32	1.38
1	AA	1064	G	N1-C2	6.60	1.43	1.37
24	BA	1993	U	C2-O2	6.56	1.28	1.22
24	BA	1666	G	N9-C4	-6.54	1.32	1.38
24	BA	1938	A	C5-C4	6.54	1.43	1.38
1	AA	677	U	N3-C4	6.51	1.44	1.38
24	BA	1778	U	C5-C6	-6.50	1.28	1.34
24	BA	745	G	C3'-O3'	6.41	1.51	1.42
24	BA	1313	U	N1-C2	6.40	1.44	1.38
24	BA	1746	G	N9-C4	-6.36	1.32	1.38
24	BA	2500	U	O3'-P	-6.36	1.53	1.61
50	B3	48	ARG	CB-CG	6.32	1.69	1.52
24	BA	860	U	C5-C6	-6.32	1.28	1.34
24	BA	595	C	N1-C2	-6.31	1.33	1.40
24	BA	917	A	N9-C4	6.30	1.41	1.37
1	AA	1064	G	C5-C4	-6.28	1.33	1.38
24	BA	917	A	C2-N3	6.26	1.39	1.33
24	BA	2255	G	N1-C2	6.25	1.42	1.37
24	BA	2461	C	C2-O2	-6.22	1.18	1.24
24	BA	1575	C	N1-C2	-6.20	1.33	1.40
24	BA	2491	U	N3-C4	6.19	1.44	1.38
24	BA	2541	A	C5-C6	6.16	1.46	1.41
24	BA	2009	G	N9-C4	-6.15	1.33	1.38
24	BA	2490	G	N1-C2	-6.14	1.32	1.37
24	BA	1524	G	C2-N3	-6.12	1.27	1.32
1	AA	961	U	N1-C6	-6.11	1.32	1.38
24	BA	587	C	N1-C2	6.11	1.46	1.40
24	BA	1625	C	C2-O2	-6.10	1.19	1.24
1	AA	961	U	N3-C4	-6.05	1.33	1.38
24	BA	1372	U	N3-C4	6.05	1.43	1.38
24	BA	1769	G	N9-C4	-6.04	1.33	1.38
1	AA	974	A	N9-C4	6.02	1.41	1.37
24	BA	1951	U	N1-C2	6.02	1.44	1.38
1	AA	697	U	N3-C4	5.99	1.43	1.38
1	AA	961	U	N1-C2	5.98	1.44	1.38
24	BA	2447	G	O3'-P	-5.97	1.53	1.61
24	BA	1530	G	N9-C4	-5.93	1.33	1.38
24	BA	688	U	N1-C2	5.92	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	821	A	C5-C6	5.92	1.46	1.41
24	BA	1240	U	N3-C4	-5.91	1.33	1.38
24	BA	290	G	N9-C4	-5.90	1.33	1.38
24	BA	1313	U	C4-C5	-5.89	1.38	1.43
24	BA	1661	G	C6-O6	-5.89	1.18	1.24
24	BA	1828	G	N9-C4	-5.85	1.33	1.38
24	BA	2618	G	N9-C4	-5.84	1.33	1.38
24	BA	2665	A	C5-C6	-5.83	1.35	1.41
24	BA	1695	G	C5-C6	-5.83	1.36	1.42
24	BA	817	C	N1-C2	5.82	1.46	1.40
24	BA	2588	G	C6-N1	-5.81	1.35	1.39
24	BA	1478	G	N9-C4	-5.79	1.33	1.38
24	BA	2522	U	N1-C2	5.78	1.43	1.38
24	BA	1938	A	O3'-P	5.78	1.68	1.61
24	BA	1938	A	C3'-C2'	5.76	1.59	1.52
24	BA	745	G	O3'-P	5.76	1.68	1.61
1	AA	397	A	N9-C8	-5.74	1.33	1.37
1	AA	813	U	C2-N3	5.74	1.41	1.37
24	BA	979	G	C5-C6	5.74	1.48	1.42
24	BA	1957	C	C2-O2	-5.73	1.19	1.24
1	AA	397	A	N7-C5	-5.73	1.35	1.39
24	BA	930	U	N1-C2	-5.72	1.33	1.38
24	BA	2577	A	N9-C4	5.72	1.41	1.37
1	AA	1429	C	N1-C2	-5.71	1.34	1.40
24	BA	2459	A	C2-N3	5.71	1.38	1.33
24	BA	1778	U	C2-N3	5.69	1.41	1.37
24	BA	2072	G	C6-O6	-5.69	1.19	1.24
37	BP	41	TRP	CB-CG	-5.68	1.40	1.50
24	BA	2491	U	O3'-P	5.65	1.68	1.61
24	BA	2445	G	N1-C2	-5.64	1.33	1.37
24	BA	1524	G	N9-C4	-5.61	1.33	1.38
24	BA	1338	G	C6-O6	-5.61	1.19	1.24
24	BA	607	U	N1-C2	-5.60	1.33	1.38
24	BA	484	C	N1-C2	-5.59	1.34	1.40
24	BA	1704	G	C2-N2	-5.57	1.28	1.34
24	BA	2656	U	C5-C6	-5.57	1.29	1.34
1	AA	540	G	N9-C4	-5.56	1.33	1.38
6	AG	12	CYS	CA-CB	5.56	1.66	1.53
1	AA	114	U	C2-N3	-5.55	1.33	1.37
24	BA	1786	A	C5-C6	-5.53	1.36	1.41
24	BA	1524	G	C6-N1	-5.50	1.35	1.39
1	AA	309	G	N9-C4	-5.50	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	979	G	C6-O6	5.49	1.29	1.24
24	BA	1778	U	N1-C2	5.48	1.43	1.38
24	BA	2656	U	N1-C6	-5.48	1.33	1.38
24	BA	2509	G	N9-C4	-5.47	1.33	1.38
1	AA	13	U	N1-C2	5.45	1.43	1.38
24	BA	789	A	C5-C6	5.42	1.46	1.41
24	BA	383	U	N1-C2	5.41	1.43	1.38
24	BA	1337	G	C6-O6	-5.41	1.19	1.24
24	BA	1153	C	C2-O2	-5.41	1.19	1.24
1	AA	1419	G	C5-C6	-5.39	1.36	1.42
24	BA	2553	G	C2-N2	-5.39	1.29	1.34
24	BA	1786	A	N1-C2	5.38	1.39	1.34
1	AA	41	G	N9-C4	-5.37	1.33	1.38
1	AA	354	G	N9-C4	5.37	1.42	1.38
1	AA	13	U	N3-C4	5.36	1.43	1.38
24	BA	532	A	C5-C6	5.33	1.45	1.41
24	BA	1913	A	C5'-C4'	5.32	1.57	1.51
27	BD	15	PHE	CB-CG	-5.32	1.42	1.51
24	BA	975	G	C5'-C4'	5.31	1.57	1.51
24	BA	1993	U	N3-C4	5.29	1.43	1.38
24	BA	917	A	N7-C5	5.29	1.42	1.39
24	BA	1957	C	C2-N3	-5.29	1.31	1.35
24	BA	2488	A	C5-C6	-5.28	1.36	1.41
1	AA	677	U	C2-N3	5.27	1.41	1.37
24	BA	2056	G	C2-N3	5.27	1.36	1.32
51	B4	11	THR	CA-CB	5.26	1.67	1.53
24	BA	605	C	N1-C2	-5.26	1.34	1.40
24	BA	2195	C	O3'-P	5.26	1.67	1.61
1	AA	37	U	C5-C6	5.26	1.38	1.34
24	BA	2505	G	N3-C4	-5.26	1.31	1.35
1	AA	1494	G	C6-O6	5.25	1.28	1.24
24	BA	1778	U	C4-O4	-5.22	1.19	1.23
24	BA	2665	A	C2-N3	5.22	1.38	1.33
24	BA	917	A	C5-C6	5.20	1.45	1.41
24	BA	740	U	N1-C2	-5.19	1.33	1.38
1	AA	579	G	O3'-P	5.19	1.67	1.61
25	BB	16	G	N9-C4	-5.18	1.33	1.38
24	BA	2364	C	C2-O2	-5.18	1.19	1.24
24	BA	2209	C	N1-C2	-5.18	1.34	1.40
24	BA	1220	A	C3'-O3'	5.12	1.49	1.42
1	AA	236	G	C5-C6	-5.11	1.37	1.42
25	BB	72	G	N9-C4	5.11	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1822	G	C6-O6	5.10	1.28	1.24
25	BB	82	G	N9-C4	-5.10	1.33	1.38
1	AA	1064	G	C6-O6	-5.10	1.19	1.24
27	BD	70	TRP	CB-CG	-5.10	1.41	1.50
24	BA	775	G	N3-C4	5.09	1.39	1.35
1	AA	825	G	N9-C4	-5.08	1.33	1.38
24	BA	717	G	N9-C4	-5.07	1.33	1.38
24	BA	1826	G	O3'-P	5.07	1.67	1.61
24	BA	1678	G	N9-C4	-5.05	1.33	1.38
24	BA	1625	C	P-O5'	5.05	1.64	1.59
24	BA	1303	G	C6-N1	-5.04	1.36	1.39
1	AA	1103	C	N1-C2	-5.04	1.35	1.40
28	BE	100	GLU	CB-CG	5.03	1.61	1.52
24	BA	950	G	N9-C4	-5.02	1.33	1.38
28	BE	135	HIS	CA-CB	5.02	1.65	1.53
24	BA	814	C	N1-C2	-5.01	1.35	1.40
24	BA	1999	C	C2-O2	-5.01	1.20	1.24
24	BA	2243	U	C5-C6	-5.01	1.29	1.34
1	AA	877	C	N1-C2	-5.00	1.35	1.40
24	BA	705	A	C5-C6	-5.00	1.36	1.41

All (828) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1064	G	N1-C2-N2	-70.70	52.57	116.20
1	AA	1064	G	N3-C2-N2	58.69	160.98	119.90
24	BA	607	U	N3-C4-O4	-29.32	98.87	119.40
24	BA	1203	G	P-O3'-C3'	27.75	153.00	119.70
1	AA	1064	G	N1-C2-N3	-25.80	108.42	123.90
24	BA	607	U	C5-C4-O4	20.38	138.13	125.90
1	AA	37	U	N3-C4-O4	-19.88	105.48	119.40
24	BA	2756	U	P-O3'-C3'	18.31	141.67	119.70
24	BA	2501	C	O3'-P-O5'	-17.22	71.28	104.00
24	BA	1992	G	N9-C1'-C2'	15.88	134.65	114.00
1	AA	1064	G	C2-N3-C4	15.33	119.56	111.90
1	AA	961	U	N3-C4-O4	-15.03	108.88	119.40
24	BA	607	U	N3-C2-O2	-15.03	111.68	122.20
24	BA	1204	A	N9-C1'-C2'	14.59	132.97	114.00
24	BA	2500	U	P-O3'-C3'	14.30	136.87	119.70
24	BA	801	G	N9-C1'-C2'	13.35	131.35	114.00
24	BA	2501	C	P-O3'-C3'	-13.31	103.72	119.70
1	AA	173	U	P-O3'-C3'	13.25	135.60	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	B5	24	GLU	N-CA-C	12.82	145.62	111.00
24	BA	1800	C	N1-C1'-C2'	-12.77	97.39	114.00
24	BA	2460	U	N1-C1'-C2'	12.36	130.07	114.00
1	AA	37	U	C5-C6-N1	-12.22	116.59	122.70
27	BD	251	GLY	N-CA-C	-11.93	83.28	113.10
24	BA	607	U	N1-C2-O2	11.78	131.04	122.80
24	BA	607	U	C4-C5-C6	-11.75	112.65	119.70
24	BA	1699	G	N9-C1'-C2'	11.31	128.70	114.00
24	BA	2384	G	N9-C1'-C2'	11.29	128.68	114.00
24	BA	2500	U	N3-C4-O4	11.19	127.23	119.40
24	BA	2779	U	N1-C1'-C2'	-11.06	99.62	114.00
24	BA	1970	A	O4'-C1'-N9	10.88	116.91	108.20
1	AA	1064	G	C6-N1-C2	10.88	131.63	125.10
24	BA	2500	U	C5-C4-O4	-10.84	119.39	125.90
24	BA	1775	U	N1-C1'-C2'	10.71	127.93	114.00
24	BA	1313	U	N1-C1'-C2'	10.71	127.92	114.00
24	BA	2459	A	N9-C1'-C2'	10.67	127.87	114.00
24	BA	1938	A	N9-C1'-C2'	10.64	127.83	114.00
24	BA	1005	C	N1-C1'-C2'	10.64	127.83	114.00
24	BA	1786	A	C5-C6-N6	-10.60	115.22	123.70
24	BA	1363	C	N1-C1'-C2'	-10.55	100.29	114.00
24	BA	730	C	N1-C1'-C2'	10.54	127.70	114.00
24	BA	2581	G	N9-C1'-C2'	10.48	127.62	114.00
24	BA	2035	G	N9-C1'-C2'	10.41	127.54	114.00
24	BA	860	U	N3-C4-O4	-10.23	112.24	119.40
24	BA	917	A	C6-N1-C2	-10.23	112.46	118.60
36	BO	30	THR	N-CA-C	10.18	138.49	111.00
24	BA	2665	A	C4-N9-C1'	10.15	144.56	126.30
24	BA	2665	A	C8-N9-C1'	-10.14	109.45	127.70
24	BA	1951	U	N1-C1'-C2'	10.14	127.18	114.00
24	BA	1559	G	N9-C1'-C2'	-10.06	100.93	114.00
24	BA	1203	G	O3'-P-O5'	10.04	123.07	104.00
24	BA	2665	A	C5-C6-N6	-9.99	115.70	123.70
25	BB	119	A	N9-C1'-C2'	-9.95	101.06	112.00
24	BA	196	A	N9-C1'-C2'	9.94	126.92	114.00
24	BA	1626	G	C5'-C4'-O4'	9.93	121.02	109.10
24	BA	860	U	N1-C1'-C2'	-9.91	101.09	112.00
24	BA	2446	G	OP2-P-O3'	9.89	126.97	105.20
24	BA	1778	U	C5-C4-O4	-9.83	120.00	125.90
35	BN	74	GLY	N-CA-C	-9.83	88.52	113.10
1	AA	974	A	N9-C1'-C2'	9.81	126.75	114.00
24	BA	1778	U	C2-N3-C4	-9.80	121.12	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	621	A	C5-C6-N6	-9.77	115.89	123.70
24	BA	1822	G	N9-C1'-C2'	-9.67	101.36	112.00
1	AA	793	U	N1-C1'-C2'	9.64	126.53	114.00
1	AA	576	G	N9-C1'-C2'	9.62	126.50	114.00
24	BA	2756	U	OP1-P-O3'	9.60	126.32	105.20
1	AA	173	U	O3'-P-O5'	-9.59	85.78	104.00
24	BA	2459	A	C4-N9-C1'	9.55	143.50	126.30
24	BA	621	A	C5-C6-N1	9.53	122.47	117.70
24	BA	1786	A	C4-N9-C1'	9.48	143.36	126.30
1	AA	397	A	O4'-C1'-N9	-9.40	100.68	108.20
24	BA	1788	C	N1-C1'-C2'	-9.39	101.67	112.00
24	BA	2656	U	C5-C4-O4	-9.38	120.27	125.90
24	BA	1610	A	N9-C1'-C2'	9.38	126.19	114.00
24	BA	1786	A	C6-N1-C2	-9.36	112.98	118.60
42	BU	49	THR	C-N-CD	-9.36	100.00	120.60
40	BS	57	PHE	N-CA-C	9.30	136.12	111.00
24	BA	1809	A	O4'-C1'-N9	9.27	115.62	108.20
40	BS	29	ARG	N-CA-C	-9.12	86.38	111.00
24	BA	2459	A	C8-N9-C1'	-9.11	111.30	127.70
24	BA	621	A	N9-C1'-C2'	-9.07	102.02	112.00
24	BA	2725	A	N9-C1'-C2'	9.04	125.75	114.00
24	BA	917	A	C5-C6-N6	-9.03	116.48	123.70
1	AA	173	U	OP2-P-O3'	9.02	125.05	105.20
24	BA	1786	A	C8-N9-C1'	-9.02	111.46	127.70
52	B5	39	TYR	N-CA-C	9.02	135.36	111.00
1	AA	88	C	O4'-C1'-N1	9.01	115.41	108.20
24	BA	860	U	O4'-C1'-N1	-8.97	101.02	108.20
24	BA	2459	A	O5'-P-OP2	8.84	121.31	110.70
24	BA	1489	U	O4'-C1'-N1	8.83	115.27	108.20
24	BA	2198	A	N9-C1'-C2'	8.79	125.43	114.00
24	BA	2756	U	N1-C1'-C2'	8.78	125.41	114.00
42	BU	52	VAL	N-CA-C	-8.77	87.33	111.00
24	BA	2587	A	N9-C1'-C2'	8.77	125.39	114.00
1	AA	590	C	N1-C1'-C2'	-8.76	102.36	112.00
24	BA	1786	A	C4-C5-C6	8.68	121.34	117.00
24	BA	2665	A	N1-C6-N6	8.65	123.79	118.60
42	BU	50	PRO	N-CA-C	8.64	134.56	112.10
24	BA	1944	U	N1-C1'-C2'	-8.62	102.51	112.00
24	BA	687	C	N1-C1'-C2'	8.62	125.21	114.00
24	BA	2491	U	C2'-C3'-O3'	8.62	128.46	109.50
1	AA	1341	U	N1-C1'-C2'	-8.59	102.55	112.00
24	BA	2665	A	O4'-C1'-N9	-8.59	101.32	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2597	G	N9-C1'-C2'	8.57	125.14	114.00
24	BA	607	U	C5-C6-N1	-8.55	118.42	122.70
24	BA	1544	C	N1-C1'-C2'	8.51	125.06	114.00
36	BO	138	LEU	CA-CB-CG	8.50	134.86	115.30
24	BA	205	G	N9-C1'-C2'	8.50	125.05	114.00
54	B7	17	THR	N-CA-C	-8.49	88.06	111.00
10	AK	133	LEU	CA-CB-CG	-8.44	95.89	115.30
24	BA	2726	U	N1-C1'-C2'	8.43	124.97	114.00
1	AA	372	C	N1-C1'-C2'	8.35	124.86	114.00
24	BA	917	A	C2-N3-C4	8.33	114.76	110.60
1	AA	1133	G	N9-C1'-C2'	-8.29	102.88	112.00
24	BA	607	U	C2-N3-C4	8.29	131.97	127.00
24	BA	446	G	N9-C1'-C2'	8.27	124.76	114.00
24	BA	1610	A	O4'-C1'-N9	8.26	114.81	108.20
24	BA	2320	A	N9-C1'-C2'	8.17	124.62	114.00
24	BA	1359	A	C5-C6-N6	-8.15	117.18	123.70
24	BA	1786	A	C6-C5-N7	-8.12	126.61	132.30
24	BA	2447	G	OP2-P-O3'	8.10	123.02	105.20
24	BA	1498	C	N1-C1'-C2'	8.07	124.50	114.00
24	BA	1775	U	C5-C4-O4	-8.05	121.07	125.90
24	BA	654	A	N9-C1'-C2'	-8.05	103.14	112.00
1	AA	961	U	C5-C4-O4	-8.04	121.07	125.90
24	BA	740	U	O5'-P-OP1	-8.04	98.47	105.70
52	B5	26	ASN	N-CA-C	8.02	132.66	111.00
24	BA	2422	A	N9-C1'-C2'	8.02	124.43	114.00
1	AA	1298	C	N1-C1'-C2'	8.02	124.42	114.00
27	BD	63	ARG	N-CA-C	8.01	132.64	111.00
40	BS	66	VAL	N-CA-C	-8.00	89.40	111.00
24	BA	828	U	N1-C1'-C2'	8.00	124.40	114.00
24	BA	2491	U	C5-C4-O4	-7.99	121.11	125.90
24	BA	2061	G	N9-C1'-C2'	7.98	124.38	114.00
24	BA	1786	A	N1-C6-N6	7.94	123.36	118.60
24	BA	1359	A	N1-C6-N6	7.92	123.36	118.60
36	BO	59	LEU	CA-CB-CG	7.92	133.51	115.30
24	BA	2459	A	C6-N1-C2	-7.91	113.85	118.60
14	AO	29	GLY	N-CA-C	-7.89	93.38	113.10
24	BA	282	A	N9-C1'-C2'	-7.88	103.33	112.00
1	AA	457	C	N1-C1'-C2'	-7.87	103.34	112.00
24	BA	1372	U	C5-C4-O4	-7.85	121.19	125.90
25	BB	38	C	N1-C1'-C2'	-7.84	103.37	112.00
24	BA	2423	U	N1-C1'-C2'	7.82	124.16	114.00
24	BA	728	G	N9-C1'-C2'	7.80	124.14	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1247	A	N9-C1'-C2'	7.78	124.11	114.00
24	BA	2358	G	N9-C1'-C2'	-7.78	103.44	112.00
1	AA	974	A	C5-C6-N6	-7.74	117.51	123.70
1	AA	451	A	N9-C1'-C2'	7.72	124.04	114.00
24	BA	2834	G	N9-C1'-C2'	-7.71	103.52	112.00
24	BA	2835	A	N9-C1'-C2'	7.70	124.02	114.00
1	AA	347	G	N9-C1'-C2'	-7.67	103.56	112.00
42	BU	63	GLY	N-CA-C	-7.65	93.97	113.10
1	AA	37	U	N1-C2-O2	-7.62	117.46	122.80
24	BA	774	A	C2'-C3'-O3'	7.62	126.28	109.50
24	BA	776	G	N9-C1'-C2'	7.62	123.91	114.00
24	BA	2491	U	O4'-C1'-C2'	-7.59	98.21	105.80
1	AA	1380	U	N1-C1'-C2'	7.58	123.85	114.00
1	AA	1185	G	N9-C1'-C2'	-7.57	103.68	112.00
24	BA	917	A	C5-C6-N1	7.56	121.48	117.70
38	BQ	3	HIS	N-CA-C	7.56	131.41	111.00
24	BA	945	A	O4'-C1'-N9	7.53	114.23	108.20
24	BA	67	U	N1-C2-O2	7.51	128.06	122.80
24	BA	2657	A	N9-C1'-C2'	-7.51	103.74	112.00
3	AD	76	A	N9-C1'-C2'	7.49	123.73	114.00
24	BA	1559	G	C3'-C2'-C1'	-7.48	95.52	101.50
40	BS	110	ILE	N-CA-C	-7.48	90.82	111.00
3	AD	56	C	N1-C1'-C2'	7.47	123.71	114.00
1	AA	397	A	N9-C1'-C2'	7.46	123.70	114.00
24	BA	1694	C	O4'-C1'-N1	7.46	114.17	108.20
1	AA	37	U	C5-C4-O4	-7.45	121.43	125.90
24	BA	2076	U	N1-C1'-C2'	7.45	123.68	114.00
24	BA	2609	U	N1-C1'-C2'	7.42	123.65	114.00
24	BA	1786	A	N3-C4-N9	7.42	133.34	127.40
1	AA	974	A	C6-N1-C2	-7.41	114.15	118.60
1	AA	1166	G	N9-C1'-C2'	-7.41	103.85	112.00
1	AA	1279	A	N9-C1'-C2'	7.41	123.63	114.00
24	BA	917	A	N9-C1'-C2'	7.40	123.62	114.00
24	BA	1786	A	C5-C6-N1	7.40	121.40	117.70
24	BA	1625	C	N1-C1'-C2'	7.39	123.61	114.00
1	AA	1084	G	N9-C1'-C2'	7.37	123.58	114.00
45	BX	14	LEU	CA-CB-CG	7.37	132.24	115.30
24	BA	1203	G	OP2-P-O3'	-7.34	89.04	105.20
15	AP	81	LEU	CA-CB-CG	7.33	132.15	115.30
24	BA	911	A	N9-C1'-C2'	7.32	123.52	114.00
1	AA	37	U	C4-C5-C6	7.32	124.09	119.70
24	BA	1610	A	C1'-O4'-C4'	-7.31	104.05	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AN	126	ARG	N-CA-C	-7.30	91.28	111.00
34	BM	116	LEU	CA-CB-CG	-7.30	98.51	115.30
27	BD	9	TYR	N-CA-C	-7.29	91.32	111.00
24	BA	2336	A	N9-C1'-C2'	7.27	123.45	114.00
24	BA	860	U	C5-C4-O4	-7.26	121.54	125.90
1	AA	961	U	O4'-C1'-N1	7.25	114.00	108.20
24	BA	821	A	N9-C1'-C2'	7.25	123.42	114.00
28	BE	182	LEU	CA-CB-CG	-7.22	98.69	115.30
24	BA	2063	C	N1-C2-O2	7.22	123.23	118.90
24	BA	745	G	N9-C1'-C2'	7.21	123.37	114.00
24	BA	2490	G	N9-C1'-C2'	7.21	123.37	114.00
24	BA	1253	A	N9-C1'-C2'	7.20	123.36	114.00
24	BA	2885	C	N1-C1'-C2'	-7.19	104.09	112.00
1	AA	1528	U	N1-C1'-C2'	7.18	123.33	114.00
24	BA	2460	U	N3-C4-O4	7.17	124.42	119.40
52	B5	37	ARG	N-CA-C	7.16	130.33	111.00
24	BA	1161	C	N1-C1'-C2'	-7.16	104.13	112.00
24	BA	791	C	N1-C1'-C2'	7.15	123.30	114.00
24	BA	1954	G	N9-C1'-C2'	7.14	123.28	114.00
29	BF	13	SER	C-N-CD	-7.13	104.90	120.60
24	BA	1956	U	C2-N1-C1'	7.13	126.26	117.70
24	BA	1205	U	O4'-C1'-N1	7.12	113.89	108.20
24	BA	2491	U	O4'-C4'-C3'	-7.11	96.89	104.00
24	BA	987	G	N9-C1'-C2'	-7.10	104.19	112.00
24	BA	1359	A	N9-C1'-C2'	-7.10	104.19	112.00
1	AA	7	G	N9-C1'-C2'	7.10	123.22	114.00
24	BA	2612	C	O4'-C1'-N1	7.09	113.87	108.20
24	BA	762	U	N1-C1'-C2'	7.09	123.21	114.00
41	BT	31	SER	N-CA-C	7.08	130.13	111.00
24	BA	66	C	N1-C1'-C2'	-7.08	104.22	112.00
24	BA	532	A	N9-C1'-C2'	7.07	123.18	114.00
24	BA	554	U	N1-C1'-C2'	7.00	123.11	114.00
24	BA	2628	C	O4'-C1'-N1	7.00	113.80	108.20
42	BU	98	GLU	N-CA-C	6.98	129.85	111.00
24	BA	775	G	N3-C4-N9	6.98	130.19	126.00
1	AA	13	U	N1-C1'-C2'	6.96	123.05	114.00
24	BA	2517	C	N1-C1'-C2'	6.96	123.04	114.00
1	AA	818	G	N9-C1'-C2'	6.95	123.03	114.00
24	BA	1440	G	N9-C1'-C2'	-6.95	104.36	112.00
35	BN	67	LYS	N-CA-C	6.94	129.75	111.00
24	BA	150	C	N1-C1'-C2'	6.94	123.02	114.00
1	AA	815	A	N9-C1'-C2'	6.92	123.00	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	687	C	N1-C2-O2	6.91	123.05	118.90
24	BA	2501	C	OP2-P-O3'	6.91	120.40	105.20
24	BA	974(A)	C	N1-C1'-C2'	6.90	122.97	114.00
1	AA	961	U	N1-C1'-C2'	6.90	122.97	114.00
34	BM	139	GLU	N-CA-C	6.88	129.59	111.00
6	AG	28	SER	C-N-CD	-6.88	105.46	120.60
24	BA	2579	C	O4'-C1'-N1	-6.87	102.71	108.20
24	BA	1207	C	N1-C1'-C2'	6.86	122.92	114.00
42	BU	94	LEU	N-CA-C	-6.85	92.49	111.00
24	BA	1704	G	N9-C1'-C2'	-6.85	104.46	112.00
18	AS	19	ILE	N-CA-C	-6.85	92.52	111.00
24	BA	1360	A	N9-C1'-C2'	-6.84	104.47	112.00
34	BM	36	GLY	N-CA-C	-6.83	96.02	113.10
24	BA	280	C	N1-C1'-C2'	6.83	122.88	114.00
24	BA	530	G	N9-C1'-C2'	6.83	122.88	114.00
24	BA	699	A	N9-C1'-C2'	-6.82	104.50	112.00
1	AA	1504	G	C2'-C3'-O3'	6.81	124.60	113.70
1	AA	156	G	N9-C1'-C2'	-6.81	104.51	112.00
24	BA	2146	C	N1-C1'-C2'	-6.81	104.51	112.00
1	AA	563	A	N9-C1'-C2'	6.81	122.85	114.00
24	BA	746	A	N9-C1'-C2'	6.80	122.84	114.00
24	BA	195	A	N9-C1'-C2'	-6.79	104.53	112.00
24	BA	1951	U	O4'-C1'-N1	6.78	113.62	108.20
29	BF	170	LEU	CA-CB-CG	6.76	130.84	115.30
24	BA	866	A	N9-C1'-C2'	-6.76	104.57	112.00
1	AA	792	A	N9-C1'-C2'	6.74	122.76	114.00
27	BD	248	SER	N-CA-C	-6.72	92.86	111.00
24	BA	580	C	N1-C1'-C2'	-6.72	104.61	112.00
24	BA	2559	C	N1-C1'-C2'	-6.71	104.62	112.00
24	BA	2781	A	N9-C1'-C2'	-6.71	104.62	112.00
24	BA	1667	G	C4'-C3'-C2'	-6.70	95.90	102.60
35	BN	87	ILE	N-CA-C	-6.70	92.91	111.00
1	AA	82	U	N3-C4-O4	-6.69	114.72	119.40
1	AA	1200	C	N1-C1'-C2'	6.67	122.68	114.00
24	BA	2447	G	N9-C1'-C2'	6.67	122.67	114.00
24	BA	1938	A	C5'-C4'-O4'	6.67	117.10	109.10
24	BA	1938	A	C4-N9-C1'	6.67	138.31	126.30
24	BA	1667	G	O4'-C1'-N9	6.67	113.53	108.20
29	BF	79	GLY	N-CA-C	-6.66	96.44	113.10
24	BA	1790	C	N1-C1'-C2'	6.65	122.65	114.00
24	BA	2705	A	N9-C1'-C2'	-6.65	104.69	112.00
24	BA	574	C	N1-C1'-C2'	6.65	122.64	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	534	U	O4'-C1'-N1	6.64	113.51	108.20
1	AA	13	U	O4'-C1'-N1	-6.63	102.90	108.20
24	BA	2656	U	C2-N3-C4	-6.63	123.02	127.00
24	BA	141	A	N9-C1'-C2'	-6.62	104.72	112.00
24	BA	1617	C	N1-C1'-C2'	6.61	122.59	114.00
55	B8	14	CYS	CA-CB-SG	-6.61	102.10	114.00
40	BS	52	ILE	CB-CA-C	-6.61	98.39	111.60
18	AS	63	GLY	N-CA-C	6.60	129.60	113.10
24	BA	955	C	N1-C1'-C2'	-6.59	104.75	112.00
24	BA	2782	G	C5'-C4'-C3'	6.59	126.55	116.00
24	BA	2491	U	C3'-C2'-C1'	-6.59	96.23	101.50
24	BA	1642	G	N9-C1'-C2'	-6.59	104.75	112.00
1	AA	974	A	N1-C6-N6	6.58	122.55	118.60
42	BU	49	THR	C-N-CA	6.57	149.58	122.00
24	BA	2702	U	N1-C1'-C2'	-6.57	104.78	112.00
16	AQ	40	CYS	N-CA-C	-6.56	93.29	111.00
24	BA	1516	U	C5-C4-O4	-6.55	121.97	125.90
41	BT	20	LEU	CA-CB-CG	6.55	130.37	115.30
1	AA	962	C	N1-C1'-C2'	-6.55	104.79	112.00
24	BA	775	G	N3-C2-N2	6.54	124.48	119.90
24	BA	775	G	C4-N9-C1'	6.53	135.00	126.50
42	BU	82	ARG	N-CA-C	6.53	128.64	111.00
1	AA	1481	U	N1-C1'-C2'	6.53	122.49	114.00
24	BA	1397	U	N1-C1'-C2'	6.52	122.47	114.00
24	BA	2665	A	C6-N1-C2	-6.51	114.69	118.60
52	B5	22	ALA	N-CA-C	6.51	128.58	111.00
24	BA	775	G	N1-C2-N2	-6.51	110.34	116.20
45	BX	52	SER	N-CA-C	-6.50	93.45	111.00
50	B3	30	GLU	N-CA-C	-6.50	93.45	111.00
10	AK	10	LEU	CA-CB-CG	6.50	130.24	115.30
24	BA	1173	G	N9-C1'-C2'	6.50	122.44	114.00
1	AA	397	A	C4-N9-C1'	6.47	137.95	126.30
24	BA	2681	C	N1-C1'-C2'	6.46	122.39	114.00
7	AH	97	GLY	N-CA-C	-6.45	96.97	113.10
24	BA	273(B)	C	N1-C1'-C2'	-6.45	104.90	112.00
6	AG	5	ILE	N-CA-C	-6.45	93.59	111.00
24	BA	1780	A	N9-C1'-C2'	6.45	122.38	114.00
33	BL	59	ILE	N-CA-C	-6.43	93.62	111.00
24	BA	2092	U	N1-C1'-C2'	6.43	122.36	114.00
24	BA	1950	G	O4'-C1'-N9	6.42	113.34	108.20
24	BA	922	U	N3-C4-O4	-6.42	114.91	119.40
35	BN	120	GLU	N-CA-C	6.42	128.33	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1493	C	N1-C1'-C2'	6.41	122.34	114.00
24	BA	1839	G	N9-C1'-C2'	-6.41	104.94	112.00
46	BY	70	LEU	CA-CB-CG	6.41	130.04	115.30
24	BA	1240	U	N1-C1'-C2'	-6.39	104.97	112.00
1	AA	1049	U	C2'-C3'-O3'	6.39	123.92	113.70
1	AA	1347	G	N9-C1'-C2'	6.39	122.30	114.00
24	BA	383	U	N1-C2-O2	6.38	127.27	122.80
31	BH	8	PRO	N-CA-C	6.38	128.69	112.10
24	BA	1189	A	N9-C1'-C2'	-6.38	104.98	112.00
37	BP	71	ASP	N-CA-C	6.38	128.21	111.00
24	BA	2500	U	OP2-P-O3'	6.37	119.21	105.20
24	BA	717	G	N9-C1'-C2'	-6.36	105.00	112.00
28	BE	52	LEU	CA-CB-CG	6.35	129.91	115.30
24	BA	791	C	O4'-C1'-N1	6.34	113.27	108.20
36	BO	28	GLY	N-CA-C	6.34	128.95	113.10
24	BA	1204	A	C4-N9-C1'	6.34	137.71	126.30
1	AA	974	A	C4-N9-C1'	6.32	137.68	126.30
1	AA	397	A	C8-N9-C1'	-6.32	116.33	127.70
1	AA	1310	G	N9-C1'-C2'	-6.32	105.05	112.00
28	BE	20	ALA	N-CA-C	-6.31	93.95	111.00
14	AO	59	ARG	N-CA-C	-6.31	93.96	111.00
24	BA	1220	A	N9-C1'-C2'	6.31	122.20	114.00
24	BA	271(B)	G	N9-C1'-C2'	6.31	122.20	114.00
24	BA	1046	A	N9-C1'-C2'	6.29	122.18	114.00
24	BA	917	A	C4-N9-C1'	6.29	137.63	126.30
24	BA	2249	U	N1-C1'-C2'	6.29	122.18	114.00
1	AA	37	U	N3-C4-C5	6.29	118.37	114.60
1	AA	181	G	N9-C1'-C2'	6.29	122.17	114.00
46	BY	6	LYS	N-CA-C	6.28	127.95	111.00
24	BA	1694	C	N1-C1'-C2'	6.26	122.14	114.00
24	BA	196	A	O4'-C1'-N9	6.26	113.20	108.20
1	AA	13	U	C2-N1-C1'	6.25	125.20	117.70
14	AO	120	TYR	N-CA-C	-6.25	94.12	111.00
24	BA	1116	C	N1-C1'-C2'	-6.25	105.13	112.00
24	BA	1359	A	C8-N9-C1'	-6.25	116.46	127.70
8	AI	36	ARG	N-CA-C	-6.24	94.16	111.00
1	AA	226	G	N9-C1'-C2'	-6.23	105.15	112.00
1	AA	1230	C	N1-C1'-C2'	-6.23	105.15	112.00
1	AA	531	U	N1-C1'-C2'	6.23	122.10	114.00
24	BA	463	G	N9-C1'-C2'	-6.23	105.15	112.00
24	BA	205	G	O4'-C1'-N9	6.23	113.18	108.20
25	BB	86	G	N9-C1'-C2'	-6.22	105.16	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1402	C	N1-C1'-C2'	-6.22	105.16	112.00
24	BA	2009	G	N9-C1'-C2'	-6.21	105.16	112.00
24	BA	2032	G	N9-C1'-C2'	6.21	122.08	114.00
24	BA	488	G	N9-C1'-C2'	-6.21	105.17	112.00
22	AW	62	LEU	CA-CB-CG	-6.20	101.03	115.30
28	BE	5	LEU	N-CA-C	6.20	127.73	111.00
1	AA	81	G	N9-C1'-C2'	6.20	122.06	114.00
24	BA	2190	G	N9-C1'-C2'	-6.19	105.19	112.00
24	BA	1625	C	C3'-C2'-C1'	6.19	106.45	101.50
24	BA	2591	C	N1-C1'-C2'	-6.18	105.21	112.00
24	BA	2876	G	N9-C1'-C2'	-6.18	105.21	112.00
24	BA	1420	U	N1-C1'-C2'	6.17	122.03	114.00
24	BA	2056	G	N9-C1'-C2'	6.17	122.03	114.00
24	BA	2665	A	C5'-C4'-C3'	-6.17	106.13	116.00
24	BA	917	A	C8-N9-C1'	-6.17	116.60	127.70
24	BA	1303	G	N1-C6-O6	-6.17	116.20	119.90
1	AA	810	C	N1-C1'-C2'	-6.16	105.22	112.00
24	BA	444	C	N1-C1'-C2'	-6.14	105.25	112.00
24	BA	1516	U	N3-C4-O4	-6.14	115.10	119.40
24	BA	729	G	N9-C1'-C2'	6.13	121.97	114.00
24	BA	1359	A	C4-N9-C1'	6.13	137.34	126.30
24	BA	2491	U	C2-N3-C4	-6.13	123.32	127.00
27	BD	94	LEU	CA-CB-CG	-6.13	101.20	115.30
24	BA	687	C	N3-C2-O2	-6.12	117.62	121.90
24	BA	2118	U	N1-C1'-C2'	6.11	121.94	114.00
40	BS	49	VAL	N-CA-C	-6.11	94.51	111.00
1	AA	974	A	C8-N9-C1'	-6.10	116.72	127.70
24	BA	1993	U	C2-N1-C1'	6.09	125.01	117.70
24	BA	384	U	N1-C1'-C2'	-6.09	105.31	112.00
1	AA	388	G	N9-C1'-C2'	6.08	121.90	114.00
24	BA	621	A	N3-C4-C5	-6.07	122.55	126.80
10	AK	80	ILE	N-CA-C	-6.07	94.62	111.00
24	BA	2063	C	C2-N1-C1'	6.07	125.47	118.80
1	AA	1322	C	N1-C1'-C2'	6.06	121.88	114.00
1	AA	13	U	C5'-C4'-O4'	6.05	116.36	109.10
41	BT	95	LEU	CA-CB-CG	-6.05	101.38	115.30
24	BA	74	A	O4'-C1'-N9	6.05	113.04	108.20
24	BA	2072	G	N9-C1'-C2'	-6.05	105.34	112.00
1	AA	60	A	N9-C1'-C2'	6.05	121.86	114.00
5	AF	48	TYR	N-CA-C	-6.04	94.68	111.00
24	BA	2060	A	N9-C1'-C2'	6.04	121.86	114.00
1	AA	1135	U	N1-C1'-C2'	6.04	121.85	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	560	U	C2'-C3'-O3'	6.04	123.36	113.70
24	BA	746	A	C4'-C3'-O3'	-6.04	96.72	109.40
1	AA	644	G	N9-C1'-C2'	-6.03	105.37	112.00
24	BA	2491	U	C6-N1-C2	-6.03	117.38	121.00
28	BE	200	GLU	N-CA-C	6.03	127.28	111.00
50	B3	47	GLN	N-CA-C	6.02	127.26	111.00
1	AA	723	U	N1-C1'-C2'	6.02	121.83	114.00
24	BA	1825	A	N9-C1'-C2'	-6.02	105.38	112.00
1	AA	1336	C	O4'-C1'-N1	6.01	113.01	108.20
24	BA	1746	G	O4'-C1'-N9	6.01	113.00	108.20
34	BM	110	GLY	N-CA-C	-6.00	98.09	113.10
24	BA	1956	U	C5-C4-O4	-6.00	122.30	125.90
24	BA	2439	A	N9-C1'-C2'	6.00	121.80	114.00
24	BA	270(G)	C	O4'-C1'-N1	5.98	112.99	108.20
24	BA	400	G	N9-C1'-C2'	-5.98	105.43	112.00
1	AA	135	C	N1-C1'-C2'	-5.97	105.43	112.00
41	BT	109	LEU	CA-CB-CG	-5.97	101.56	115.30
50	B3	56	VAL	N-CA-C	5.97	127.12	111.00
28	BE	73	GLU	N-CA-C	5.97	127.12	111.00
1	AA	1418	A	C5'-C4'-C3'	-5.96	106.46	116.00
1	AA	793	U	C1'-O4'-C4'	-5.96	105.13	109.90
1	AA	144	G	N9-C1'-C2'	-5.95	105.45	112.00
24	BA	705	A	N9-C1'-C2'	-5.94	105.46	112.00
24	BA	1313	U	C2-N1-C1'	5.94	124.83	117.70
31	BH	158	HIS	N-CA-C	-5.94	94.96	111.00
24	BA	739	G	O4'-C1'-N9	5.93	112.94	108.20
6	AG	19	LEU	N-CA-C	-5.92	95.01	111.00
24	BA	775	G	N9-C1'-C2'	5.92	121.70	114.00
24	BA	865	C	N1-C1'-C2'	5.92	121.70	114.00
24	BA	1938	A	C8-N9-C1'	-5.92	117.04	127.70
34	BM	80	GLY	N-CA-C	-5.92	98.31	113.10
50	B3	40	HIS	N-CA-C	5.91	126.97	111.00
1	AA	876	G	N9-C1'-C2'	-5.91	105.50	112.00
1	AA	961	U	C2-N1-C1'	5.90	124.78	117.70
1	AA	529	G	N9-C1'-C2'	-5.90	105.51	112.00
24	BA	2108	C	O4'-C1'-N1	5.90	112.92	108.20
1	AA	172	A	P-O3'-C3'	5.89	126.77	119.70
46	BY	137	ILE	N-CA-C	-5.89	95.10	111.00
1	AA	727	G	N9-C1'-C2'	-5.89	105.53	112.00
36	BO	116	GLY	N-CA-C	-5.88	98.39	113.10
24	BA	1694	C	C1'-O4'-C4'	-5.88	105.19	109.90
24	BA	2491	U	C2-N1-C1'	5.88	124.76	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BC	33	ALA	N-CA-C	5.87	126.86	111.00
5	AF	107	GLN	N-CA-C	5.87	126.85	111.00
35	BN	87	ILE	CB-CA-C	5.86	123.32	111.60
24	BA	2560	C	N1-C1'-C2'	-5.86	105.56	112.00
24	BA	1775	U	C2-N1-C1'	5.86	124.73	117.70
1	AA	656	C	N1-C1'-C2'	-5.85	105.56	112.00
24	BA	684	G	N9-C1'-C2'	-5.85	105.56	112.00
24	BA	459	U	O4'-C1'-N1	5.85	112.88	108.20
1	AA	1502	A	N9-C1'-C2'	5.84	121.60	114.00
24	BA	2075	U	C5'-C4'-O4'	-5.84	102.09	109.10
24	BA	1734	C	N1-C1'-C2'	5.84	121.59	114.00
35	BN	118	ALA	C-N-CA	-5.84	97.49	122.00
24	BA	2459	A	C5-C6-N6	-5.83	119.03	123.70
27	BD	60	ARG	N-CA-C	5.83	126.75	111.00
37	BP	94	VAL	CB-CA-C	-5.83	100.33	111.40
24	BA	95	G	N9-C1'-C2'	-5.83	105.59	112.00
24	BA	2525	G	N9-C1'-C2'	-5.82	105.60	112.00
42	BU	66	ARG	N-CA-C	5.82	126.70	111.00
24	BA	922	U	C5-C4-O4	-5.80	122.42	125.90
24	BA	1956	U	C6-N1-C1'	-5.80	113.08	121.20
24	BA	282	A	C3'-C2'-C1'	-5.78	96.88	101.50
24	BA	1861	G	N9-C1'-C2'	-5.78	105.64	112.00
1	AA	1124	G	N9-C1'-C2'	5.77	121.51	114.00
24	BA	631	A	N9-C1'-C2'	-5.77	105.65	112.00
1	AA	813	U	N1-C1'-C2'	5.76	121.49	114.00
20	AU	44	LEU	CA-CB-CG	5.76	128.55	115.30
24	BA	2394	C	O4'-C1'-N1	5.76	112.81	108.20
24	BA	745	G	OP2-P-O3'	5.76	117.87	105.20
24	BA	1955	U	N1-C1'-C2'	5.76	121.49	114.00
24	BA	2665	A	C6-C5-N7	-5.76	128.27	132.30
24	BA	2345	G	C5'-C4'-C3'	5.75	125.21	116.00
1	AA	48	C	O4'-C1'-N1	5.75	112.80	108.20
38	BQ	4	LEU	CA-CB-CG	-5.75	102.07	115.30
24	BA	2459	A	N3-C4-N9	5.74	131.99	127.40
24	BA	1292	U	N1-C1'-C2'	-5.73	105.70	112.00
24	BA	794	G	O4'-C1'-N9	-5.73	103.62	108.20
24	BA	1903	G	N9-C1'-C2'	-5.72	105.70	112.00
24	BA	1204	A	C8-N9-C1'	-5.72	117.41	127.70
24	BA	1827	C	O5'-P-OP1	-5.72	100.55	105.70
30	BG	95	ARG	N-CA-C	5.72	126.44	111.00
24	BA	860	U	C6-N1-C1'	-5.72	113.20	121.20
19	AT	73	VAL	CB-CA-C	-5.71	100.56	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	917	A	C2'-C3'-O3'	5.71	122.83	113.70
24	BA	1824	G	O5'-P-OP1	-5.71	100.56	105.70
24	BA	458	G	N9-C1'-C2'	5.70	121.42	114.00
1	AA	88	C	C1'-O4'-C4'	-5.70	105.34	109.90
24	BA	2356	C	N1-C1'-C2'	-5.70	105.73	112.00
1	AA	983	A	O4'-C1'-N9	-5.70	103.64	108.20
1	AA	769	G	C5'-C4'-O4'	-5.70	102.26	109.10
24	BA	2613	U	N1-C1'-C2'	-5.69	105.74	112.00
1	AA	37	U	C6-N1-C2	-5.69	117.58	121.00
1	AA	810	C	O4'-C1'-N1	5.69	112.75	108.20
34	BM	43	THR	N-CA-C	5.69	126.36	111.00
14	AO	73	GLU	N-CA-C	5.68	126.34	111.00
24	BA	917	A	N1-C6-N6	5.68	122.01	118.60
24	BA	2213	U	O4'-C1'-N1	-5.68	103.66	108.20
46	BY	41	LEU	CA-CB-CG	-5.67	102.25	115.30
24	BA	2726	U	C2'-C3'-O3'	5.67	122.78	113.70
1	AA	1408	A	N9-C1'-C2'	-5.67	105.77	112.00
27	BD	16	MET	N-CA-C	-5.67	95.70	111.00
1	AA	576	G	O4'-C1'-N9	5.66	112.73	108.20
24	BA	2459	A	C5-C6-N1	5.66	120.53	117.70
2	AC	76	A	C4'-C3'-O3'	5.66	124.32	113.00
20	AU	75	ILE	CB-CA-C	-5.66	100.28	111.60
39	BR	45	GLY	N-CA-C	-5.66	98.95	113.10
1	AA	960	U	N1-C1'-C2'	5.66	121.36	114.00
5	AF	188	LEU	CA-CB-CG	5.66	128.31	115.30
1	AA	258	G	O4'-C1'-N9	5.65	112.72	108.20
24	BA	687	C	C2-N1-C1'	5.65	125.02	118.80
24	BA	1313	U	C6-N1-C2	-5.65	117.61	121.00
24	BA	2665	A	C4-C5-C6	5.65	119.83	117.00
25	BB	8	U	N1-C1'-C2'	5.65	121.34	114.00
15	AP	117	VAL	N-CA-C	5.65	126.24	111.00
24	BA	2265	U	N1-C1'-C2'	-5.64	105.79	112.00
24	BA	2774	C	N1-C1'-C2'	5.64	121.33	114.00
54	B7	61	LEU	CA-CB-CG	5.64	128.26	115.30
24	BA	1183	G	N9-C1'-C2'	5.63	121.32	114.00
1	AA	769	G	N9-C1'-C2'	5.63	121.32	114.00
24	BA	2035	G	C5'-C4'-C3'	5.63	125.01	116.00
24	BA	2042	A	O4'-C4'-C3'	-5.63	98.37	104.00
24	BA	2732	G	C5'-C4'-C3'	-5.63	107.00	116.00
24	BA	688	U	C2-N3-C4	-5.62	123.63	127.00
24	BA	1784	A	OP2-P-O3'	5.62	117.57	105.20
24	BA	2306	C	N1-C1'-C2'	-5.62	105.82	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	578	A	N9-C1'-C2'	5.62	121.30	114.00
27	BD	95	LEU	CA-CB-CG	5.62	128.22	115.30
24	BA	686	G	C2'-C3'-O3'	-5.61	97.16	109.50
30	BG	175	LEU	CA-CB-CG	-5.61	102.40	115.30
24	BA	1746	G	N9-C1'-C2'	-5.61	105.83	112.00
1	AA	397	A	C5'-C4'-O4'	5.60	115.82	109.10
1	AA	37	U	O4'-C1'-N1	5.60	112.68	108.20
24	BA	1265	A	C1'-O4'-C4'	-5.59	105.42	109.90
24	BA	2460	U	C2-N1-C1'	5.59	124.41	117.70
54	B7	35	GLN	N-CA-C	-5.59	95.91	111.00
1	AA	389	A	C5'-C4'-C3'	5.59	124.94	116.00
24	BA	2249	U	N3-C4-O4	-5.58	115.49	119.40
40	BS	60	THR	N-CA-C	-5.58	95.92	111.00
24	BA	1635	G	O4'-C1'-N9	-5.58	103.73	108.20
1	AA	231	G	O4'-C1'-N9	5.58	112.66	108.20
24	BA	2458	G	C4'-C3'-O3'	-5.58	97.69	109.40
35	BN	6	THR	N-CA-C	5.58	126.05	111.00
24	BA	1718	G	N9-C1'-C2'	-5.57	105.87	112.00
1	AA	319	G	N9-C1'-C2'	-5.57	105.88	112.00
2	AC	14	A	N9-C1'-C2'	-5.57	105.88	112.00
1	AA	372	C	C1'-O4'-C4'	-5.56	105.45	109.90
24	BA	2287	A	O4'-C1'-N9	5.56	112.65	108.20
24	BA	2665	A	C5-C6-N1	5.56	120.48	117.70
24	BA	1786	A	N9-C4-C5	-5.56	103.58	105.80
1	AA	398	C	N1-C1'-C2'	-5.56	105.89	112.00
24	BA	2198	A	O4'-C1'-N9	5.56	112.65	108.20
28	BE	6	GLY	N-CA-C	-5.56	99.20	113.10
24	BA	1052	C	O4'-C1'-N1	5.55	112.64	108.20
24	BA	2031	A	N9-C1'-C2'	-5.55	105.89	112.00
1	AA	533	A	N9-C1'-C2'	5.55	121.21	114.00
24	BA	2067	G	N9-C1'-C2'	5.55	121.21	114.00
24	BA	1939	U	O5'-P-OP1	-5.55	100.71	105.70
24	BA	775	G	N3-C4-C5	-5.54	125.83	128.60
39	BR	62	LYS	N-CA-C	5.54	125.97	111.00
1	AA	559	A	N9-C1'-C2'	5.54	121.21	114.00
17	AR	39	LEU	CA-CB-CG	5.54	128.05	115.30
18	AS	16	HIS	N-CA-C	-5.54	96.05	111.00
24	BA	2236	C	O4'-C1'-N1	-5.54	103.77	108.20
46	BY	147	GLY	N-CA-C	-5.54	99.26	113.10
32	BK	11	ASN	N-CA-C	-5.53	96.06	111.00
1	AA	652	U	N1-C1'-C2'	5.53	121.19	114.00
1	AA	1175	G	N9-C1'-C2'	-5.53	105.92	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1847	A	C5'-C4'-O4'	5.53	115.73	109.10
36	BO	96	THR	N-CA-C	5.53	125.93	111.00
6	AG	158	ILE	N-CA-C	-5.53	96.07	111.00
24	BA	643	A	N9-C1'-C2'	5.53	121.19	114.00
28	BE	127	ASP	N-CA-C	5.53	125.92	111.00
40	BS	64	ARG	N-CA-C	5.53	125.93	111.00
24	BA	1688	U	N1-C1'-C2'	5.52	121.17	114.00
36	BO	88	LEU	N-CA-C	5.52	125.90	111.00
24	BA	374	A	N9-C1'-C2'	5.51	121.17	114.00
1	AA	878	G	C5'-C4'-C3'	-5.51	107.18	116.00
1	AA	728	A	N9-C1'-C2'	-5.51	105.94	112.00
24	BA	1416	G	N9-C1'-C2'	5.51	121.16	114.00
24	BA	775	G	C8-N9-C1'	-5.50	119.84	127.00
1	AA	158	G	N9-C1'-C2'	-5.50	105.95	112.00
1	AA	1498	U	OP2-P-O3'	5.50	117.30	105.20
36	BO	39	LYS	N-CA-C	-5.50	96.16	111.00
36	BO	86	LYS	N-CA-C	5.50	125.84	111.00
24	BA	834	C	N1-C1'-C2'	-5.49	105.96	112.00
20	AU	80	PRO	N-CA-C	5.49	126.36	112.10
36	BO	22	GLY	C-N-CD	-5.49	108.53	120.60
1	AA	1054	C	N1-C1'-C2'	-5.48	105.97	112.00
24	BA	574	C	O4'-C1'-N1	5.47	112.58	108.20
24	BA	1956	U	N3-C4-O4	5.47	123.23	119.40
1	AA	376	G	N9-C1'-C2'	-5.47	105.98	112.00
34	BM	49	GLY	N-CA-C	-5.47	99.43	113.10
41	BT	87	GLY	N-CA-C	5.47	126.77	113.10
24	BA	2755	C	O3'-P-O5'	5.46	114.38	104.00
24	BA	1542	G	O4'-C1'-N9	-5.46	103.83	108.20
24	BA	531	C	C5'-C4'-O4'	5.45	115.64	109.10
24	BA	1240	U	C5'-C4'-O4'	5.45	115.64	109.10
24	BA	2414	G	N9-C1'-C2'	-5.45	106.01	112.00
36	BO	105	LEU	CA-CB-CG	-5.45	102.77	115.30
1	AA	560	U	N1-C1'-C2'	5.44	121.08	114.00
24	BA	860	U	C2-N1-C1'	5.44	124.23	117.70
24	BA	1205	U	C5'-C4'-O4'	5.44	115.63	109.10
24	BA	2210	G	N9-C1'-C2'	5.44	121.07	114.00
24	BA	783	A	O4'-C1'-N9	-5.44	103.85	108.20
24	BA	1667	G	C5'-C4'-C3'	5.43	124.69	116.00
25	BB	-1	A	O4'-C1'-N9	5.43	112.55	108.20
24	BA	2794	C	N1-C1'-C2'	-5.43	106.02	112.00
40	BS	45	PHE	N-CA-C	-5.43	96.33	111.00
14	AO	83	VAL	N-CA-C	-5.43	96.34	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	35	G	N9-C1'-C2'	-5.43	106.03	112.00
24	BA	1303	G	C5-C6-O6	5.43	131.86	128.60
24	BA	1455	G	N9-C1'-C2'	-5.42	106.04	112.00
24	BA	67	U	C2'-C3'-O3'	5.40	122.35	113.70
24	BA	1772	G	C5'-C4'-C3'	-5.40	107.36	116.00
25	BB	11	C	N1-C1'-C2'	-5.39	106.07	112.00
24	BA	2713	A	C4'-C3'-O3'	-5.39	98.08	109.40
31	BH	127	GLU	N-CA-C	5.39	125.55	111.00
1	AA	707	C	N1-C1'-C2'	-5.38	106.08	112.00
24	BA	953	A	N9-C1'-C2'	-5.38	106.08	112.00
29	BF	61	GLY	N-CA-C	-5.38	99.64	113.10
35	BN	102	VAL	N-CA-C	5.38	125.54	111.00
24	BA	504	U	N1-C1'-C2'	5.38	121.00	114.00
1	AA	1392	G	N9-C1'-C2'	5.38	120.99	114.00
24	BA	431	U	N1-C1'-C2'	-5.38	106.08	112.00
42	BU	67	GLY	N-CA-C	5.38	126.55	113.10
1	AA	12	U	O4'-C1'-N1	5.38	112.50	108.20
24	BA	1559	G	C4'-C3'-O3'	5.38	123.75	113.00
27	BD	245	PRO	N-CA-C	5.38	126.08	112.10
24	BA	1809	A	C1'-O4'-C4'	-5.38	105.60	109.90
24	BA	1260	G	O4'-C1'-N9	-5.37	103.90	108.20
24	BA	1993	U	N1-C2-O2	5.37	126.56	122.80
24	BA	2787	C	O4'-C1'-N1	5.37	112.50	108.20
1	AA	1293	G	N9-C1'-C2'	-5.37	106.09	112.00
19	AT	104	LYS	N-CA-C	5.37	125.50	111.00
29	BF	75	HIS	N-CA-C	5.37	125.50	111.00
52	B5	23	THR	C-N-CA	5.37	135.13	121.70
24	BA	602	G	N9-C1'-C2'	5.37	120.98	114.00
1	AA	1077	G	N9-C1'-C2'	-5.37	106.10	112.00
24	BA	2612	C	C5'-C4'-O4'	5.37	115.54	109.10
24	BA	2665	A	N9-C4-C5	-5.37	103.65	105.80
40	BS	63	VAL	N-CA-C	-5.37	96.51	111.00
24	BA	1418	G	N9-C1'-C2'	-5.36	106.10	112.00
24	BA	1444(A)	A	N9-C1'-C2'	5.36	120.97	114.00
37	BP	105	GLU	N-CA-C	5.36	125.48	111.00
24	BA	2027	G	C5'-C4'-C3'	5.36	124.57	116.00
24	BA	2777	G	O4'-C1'-N9	-5.36	103.91	108.20
24	BA	1302	A	C1'-O4'-C4'	-5.36	105.61	109.90
24	BA	566	U	O4'-C1'-N1	-5.35	103.92	108.20
24	BA	1541	U	C6-N1-C2	-5.35	117.79	121.00
24	BA	909	A	O4'-C1'-N9	-5.35	103.92	108.20
24	BA	1321	A	N9-C1'-C2'	-5.35	106.11	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BU	41	GLY	N-CA-C	-5.35	99.72	113.10
50	B3	52	THR	N-CA-C	5.35	125.44	111.00
24	BA	1312	U	C5'-C4'-O4'	-5.35	102.69	109.10
24	BA	1786	A	N3-C4-C5	-5.35	123.06	126.80
24	BA	1775	U	OP2-P-O3'	5.34	116.94	105.20
24	BA	763	G	O4'-C4'-C3'	-5.34	98.66	104.00
52	B5	23	THR	N-CA-C	5.33	125.40	111.00
24	BA	2031	A	O4'-C1'-N9	-5.33	103.93	108.20
24	BA	2481	G	N9-C1'-C2'	5.33	120.93	114.00
24	BA	1788	C	C4'-C3'-C2'	-5.33	97.27	102.60
1	AA	1139	G	N9-C1'-C2'	5.33	120.92	114.00
24	BA	528	A	O4'-C1'-N9	-5.32	103.94	108.20
24	BA	1092	C	N1-C1'-C2'	-5.32	106.14	112.00
24	BA	2056	G	N3-C2-N2	5.32	123.63	119.90
1	AA	779	C	C5'-C4'-C3'	-5.32	107.49	116.00
6	AG	9	CYS	CA-CB-SG	5.32	123.57	114.00
24	BA	862	G	C4-N9-C1'	5.32	133.41	126.50
24	BA	2325	G	N9-C1'-C2'	5.32	120.91	114.00
24	BA	1625	C	O4'-C4'-C3'	5.32	110.35	106.10
24	BA	2373	G	N9-C1'-C2'	5.32	120.91	114.00
28	BE	49	LEU	CA-CB-CG	5.32	127.53	115.30
24	BA	1994	C	N1-C1'-C2'	-5.31	106.16	112.00
37	BP	103	MET	N-CA-C	-5.31	96.67	111.00
46	BY	52	SER	N-CA-C	-5.31	96.67	111.00
24	BA	49	A	N9-C1'-C2'	-5.31	106.16	112.00
24	BA	2051	A	N9-C1'-C2'	5.31	120.90	114.00
1	AA	47	C	N1-C1'-C2'	5.30	120.90	114.00
1	AA	1192	C	C2-N1-C1'	5.30	124.64	118.80
8	AI	48	LEU	CA-CB-CG	-5.30	103.10	115.30
50	B3	63	TYR	CA-CB-CG	5.30	123.48	113.40
37	BP	82	ARG	N-CA-C	-5.30	96.69	111.00
24	BA	899	A	N9-C1'-C2'	-5.30	106.17	112.00
1	AA	219	C	N1-C1'-C2'	-5.30	106.17	112.00
24	BA	2491	U	C4-C5-C6	5.29	122.88	119.70
10	AK	2	LEU	CA-CB-CG	5.29	127.47	115.30
24	BA	2606	C	C5'-C4'-O4'	-5.29	102.75	109.10
28	BE	166	THR	N-CA-C	5.29	125.29	111.00
1	AA	396	G	N9-C1'-C2'	5.29	120.87	114.00
51	B4	13	LYS	N-CA-C	-5.29	96.73	111.00
32	BK	128	LEU	CA-CB-CG	5.28	127.45	115.30
24	BA	739	G	OP1-P-O3'	5.28	116.82	105.20
24	BA	1747	G	O4'-C1'-N9	5.28	112.42	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	BC	214	VAL	N-CA-C	-5.28	96.74	111.00
10	AK	39	LEU	CA-CB-CG	-5.28	103.16	115.30
30	BG	34	LEU	N-CA-C	5.28	125.25	111.00
23	AX	5	ASP	N-CA-C	-5.28	96.76	111.00
24	BA	1746	G	C4-N9-C1'	-5.27	119.65	126.50
3	AD	64	C	N1-C1'-C2'	-5.27	106.21	112.00
8	AI	19	LEU	CA-CB-CG	5.27	127.42	115.30
24	BA	1746	G	O4'-C4'-C3'	-5.26	98.74	104.00
24	BA	2848	G	N9-C1'-C2'	5.26	120.83	114.00
24	BA	448	U	O4'-C1'-N1	5.25	112.40	108.20
28	BE	147	PRO	N-CA-C	-5.25	98.44	112.10
24	BA	1920	C	N1-C1'-C2'	-5.25	106.22	112.00
41	BT	18	LEU	CA-CB-CG	5.25	127.37	115.30
47	BZ	74	ARG	N-CA-C	5.25	125.17	111.00
45	BX	75	ILE	N-CA-C	-5.25	96.83	111.00
27	BD	34	VAL	N-CA-C	5.25	125.16	111.00
1	AA	596	C	C5'-C4'-O4'	5.24	115.39	109.10
40	BS	55	ASN	N-CA-CB	-5.24	101.16	110.60
36	BO	46	LYS	N-CA-C	5.24	125.14	111.00
36	BO	63	PRO	N-CA-C	5.24	125.72	112.10
25	BB	-1	A	OP1-P-OP2	-5.24	111.75	119.60
24	BA	1899	G	O4'-C1'-N9	-5.24	104.01	108.20
28	BE	158	GLY	N-CA-C	5.24	126.19	113.10
1	AA	37	U	N3-C2-O2	5.23	125.86	122.20
24	BA	1938	A	C5'-C4'-C3'	5.23	124.36	116.00
47	BZ	75	LEU	CA-CB-CG	5.22	127.31	115.30
24	BA	1691	C	N1-C1'-C2'	-5.22	106.26	112.00
24	BA	2403	C	N1-C1'-C2'	5.22	120.78	114.00
24	BA	2665	A	N3-C4-N9	5.21	131.57	127.40
50	B3	48	ARG	NE-CZ-NH1	5.21	122.91	120.30
1	AA	1193	G	N9-C1'-C2'	-5.21	106.27	112.00
24	BA	296	C	C4'-C3'-C2'	-5.21	97.39	102.60
1	AA	334	C	N1-C1'-C2'	-5.21	106.27	112.00
24	BA	2407	G	O5'-P-OP1	-5.21	101.01	105.70
24	BA	479	A	N9-C1'-C2'	5.20	120.76	114.00
31	BH	109	PHE	N-CA-C	5.20	125.03	111.00
24	BA	205	G	C1'-O4'-C4'	-5.20	105.74	109.90
27	BD	58	HIS	N-CA-C	5.20	125.03	111.00
24	BA	2460	U	C5-C4-O4	-5.19	122.78	125.90
24	BA	1253	A	O5'-P-OP1	-5.19	101.03	105.70
24	BA	2195	C	N1-C1'-C2'	5.19	120.75	114.00
40	BS	88	ILE	N-CA-C	-5.19	96.98	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	517	G	N9-C1'-C2'	5.19	120.75	114.00
25	BB	12	C	C5'-C4'-O4'	5.19	115.33	109.10
24	BA	2036	C	O5'-P-OP1	-5.19	101.03	105.70
24	BA	2332	U	O4'-C4'-C3'	-5.19	98.81	104.00
24	BA	1667	G	C1'-O4'-C4'	-5.18	105.75	109.90
24	BA	2056	G	C4-N9-C1'	5.18	133.24	126.50
24	BA	2794	C	C4'-C3'-O3'	5.18	123.36	113.00
24	BA	1663	C	OP2-P-O3'	5.18	116.60	105.20
24	BA	826	U	N1-C2-O2	5.18	126.42	122.80
30	BG	132	ASN	N-CA-C	5.18	124.97	111.00
24	BA	2446	G	O3'-P-O5'	-5.17	94.17	104.00
24	BA	2515	C	N1-C1'-C2'	5.17	120.72	114.00
24	BA	1848	A	N9-C1'-C2'	-5.17	106.31	112.00
45	BX	46	LYS	N-CA-C	5.17	124.96	111.00
29	BF	133	ASN	N-CA-C	-5.17	97.05	111.00
24	BA	2547	U	O4'-C1'-N1	-5.17	104.07	108.20
29	BF	82	ILE	N-CA-C	5.16	124.94	111.00
24	BA	774	A	C6-N1-C2	-5.16	115.50	118.60
24	BA	1666	G	C4-N9-C1'	-5.16	119.79	126.50
4	AE	118	LEU	CA-CB-CG	5.16	127.16	115.30
24	BA	2582	G	O4'-C1'-N9	-5.16	104.07	108.20
24	BA	1735	C	O4'-C1'-N1	5.15	112.32	108.20
1	AA	1502	A	C1'-O4'-C4'	-5.15	105.78	109.90
24	BA	472	A	N9-C1'-C2'	-5.14	106.34	112.00
27	BD	272	ALA	N-CA-C	5.14	124.89	111.00
24	BA	2592	G	C3'-C2'-C1'	-5.14	97.39	101.50
55	B8	15	LYS	N-CA-C	5.14	124.87	111.00
24	BA	862	G	C5'-C4'-O4'	5.13	115.26	109.10
24	BA	1668	A	C5'-C4'-C3'	5.13	124.21	116.00
24	BA	2756	U	O3'-P-O5'	-5.13	94.25	104.00
29	BF	13	SER	N-CA-C	-5.13	97.15	111.00
37	BP	23	GLY	N-CA-C	5.13	125.92	113.10
43	BV	65	LEU	CA-CB-CG	5.13	127.09	115.30
7	AH	83	GLU	N-CA-C	-5.12	97.17	111.00
13	AN	47	VAL	N-CA-C	-5.12	97.18	111.00
24	BA	784	A	C5'-C4'-C3'	-5.12	107.81	116.00
13	AN	90	GLY	N-CA-C	-5.12	100.31	113.10
24	BA	1566	A	C2'-C3'-O3'	5.11	121.88	113.70
24	BA	2451	A	C4'-C3'-C2'	-5.11	97.49	102.60
24	BA	2501	C	OP1-P-O3'	5.11	116.45	105.20
24	BA	2076	U	C5'-C4'-C3'	-5.11	107.83	116.00
24	BA	2586	C	N1-C1'-C2'	-5.11	106.38	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1951	U	C6-N1-C2	-5.11	117.94	121.00
24	BA	2459	A	N3-C4-C5	-5.10	123.23	126.80
43	BV	63	ASP	N-CA-C	5.10	124.77	111.00
14	AO	25	PRO	N-CA-C	-5.10	98.85	112.10
24	BA	979	G	N9-C1'-C2'	5.09	120.62	114.00
1	AA	1029	G	N9-C1'-C2'	-5.09	106.40	112.00
1	AA	1311	G	N9-C1'-C2'	-5.09	106.40	112.00
4	AE	142	LEU	CA-CB-CG	-5.09	103.59	115.30
24	BA	2238	G	O4'-C1'-N9	5.09	112.27	108.20
24	BA	1664	A	C5'-C4'-O4'	5.09	115.21	109.10
24	BA	1706	U	N1-C1'-C2'	5.09	120.62	114.00
53	B6	16	HIS	N-CA-C	5.09	124.74	111.00
24	BA	1919	A	O4'-C1'-N9	-5.09	104.13	108.20
24	BA	1651	G	N9-C1'-C2'	-5.08	106.41	112.00
49	B2	53	LEU	CA-CB-CG	-5.08	103.61	115.30
31	BH	111	HIS	N-CA-C	5.08	124.72	111.00
24	BA	2640	G	O4'-C1'-N9	5.08	112.26	108.20
24	BA	1992	G	C5'-C4'-C3'	5.08	124.12	116.00
40	BS	114	LEU	CA-CB-CG	5.07	126.97	115.30
1	AA	1481	U	O4'-C1'-N1	5.07	112.26	108.20
36	BO	105	LEU	N-CA-C	5.07	124.69	111.00
24	BA	2665	A	N9-C1'-C2'	5.07	120.58	114.00
24	BA	279	C	N1-C1'-C2'	5.06	120.58	114.00
24	BA	2809	A	N9-C1'-C2'	5.06	120.58	114.00
28	BE	65	GLY	N-CA-C	-5.06	100.44	113.10
24	BA	2593	U	C5'-C4'-O4'	-5.06	103.03	109.10
24	BA	353	G	N9-C1'-C2'	5.06	120.57	114.00
24	BA	2414	G	O4'-C4'-C3'	-5.06	98.94	104.00
24	BA	1313	U	C5-C6-N1	5.05	125.23	122.70
1	AA	1225	A	N9-C1'-C2'	5.05	120.56	114.00
24	BA	2056	G	C5'-C4'-C3'	-5.04	107.93	116.00
24	BA	2324	C	C4'-C3'-O3'	-5.04	98.81	109.40
24	BA	2243	U	N1-C1'-C2'	5.04	120.55	114.00
24	BA	2471	C	O4'-C4'-C3'	-5.04	98.96	104.00
36	BO	100	LEU	CA-CB-CG	5.04	126.88	115.30
51	B4	4	HIS	N-CA-C	5.03	124.59	111.00
1	AA	993	G	N9-C1'-C2'	5.03	120.54	114.00
1	AA	1144	G	N9-C1'-C2'	-5.03	106.47	112.00
34	BM	75	TYR	N-CA-C	-5.03	97.42	111.00
5	AF	68	VAL	N-CA-C	-5.03	97.43	111.00
1	AA	1205	U	O4'-C1'-N1	5.03	112.22	108.20
4	AE	169	LYS	N-CA-C	-5.03	97.43	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2135	A	O4'-C1'-N9	-5.03	104.18	108.20
50	B3	12	ALA	N-CA-C	5.03	124.57	111.00
1	AA	363	A	N9-C1'-C2'	-5.02	106.47	112.00
1	AA	825	G	C4-N9-C1'	-5.02	119.97	126.50
24	BA	1833	U	C5'-C4'-C3'	5.02	124.03	116.00
24	BA	429	A	N9-C1'-C2'	5.02	120.53	114.00
1	AA	860	A	N9-C1'-C2'	-5.02	106.48	112.00
1	AA	191(C)	G	N9-C1'-C2'	-5.02	106.48	112.00
1	AA	637	G	N9-C1'-C2'	-5.01	106.49	112.00
1	AA	790	A	N9-C1'-C2'	-5.01	106.49	112.00
24	BA	1162	G	O4'-C1'-N9	5.01	112.21	108.20
2	AC	19	G	N9-C1'-C2'	5.00	120.50	114.00

There are no chirality outliers.

All (818) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1003	G	Sidechain
1	AA	1006	C	Sidechain
1	AA	1007	C	Sidechain
1	AA	101	A	Sidechain
1	AA	1012	U	Sidechain
1	AA	1025	U	Sidechain
1	AA	1027	C	Sidechain
1	AA	1028(A)	C	Sidechain
1	AA	1036	G	Sidechain
1	AA	1037	C	Sidechain
1	AA	1038	C	Sidechain
1	AA	1039	C	Sidechain
1	AA	1052	U	Sidechain
1	AA	1053	G	Sidechain
1	AA	1055	A	Sidechain
1	AA	1057	G	Sidechain
1	AA	1065	U	Sidechain
1	AA	1075	C	Sidechain
1	AA	108	G	Sidechain
1	AA	1084	G	Sidechain
1	AA	1086	U	Sidechain
1	AA	1097	C	Sidechain
1	AA	1100	C	Sidechain
1	AA	1115	C	Sidechain
1	AA	1124	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1128	C	Sidechain
1	AA	1133	G	Sidechain
1	AA	1135	U	Sidechain
1	AA	1143	G	Sidechain
1	AA	1150	U	Sidechain
1	AA	1159	U	Sidechain
1	AA	1172	C	Sidechain
1	AA	118	U	Sidechain
1	AA	1185	G	Sidechain
1	AA	1192	C	Sidechain
1	AA	1195	C	Sidechain
1	AA	12	U	Sidechain
1	AA	1203	C	Sidechain
1	AA	1235	U	Sidechain
1	AA	1246	C	Sidechain
1	AA	1247	U	Sidechain
1	AA	125	U	Sidechain
1	AA	1254	C	Sidechain
1	AA	1263	C	Sidechain
1	AA	1264	C	Sidechain
1	AA	1266	G	Sidechain
1	AA	1271	G	Sidechain
1	AA	1285	A	Sidechain
1	AA	129	U	Sidechain
1	AA	129(A)	G	Sidechain
1	AA	1301	U	Sidechain
1	AA	1302	U	Sidechain
1	AA	1312	G	Sidechain
1	AA	1314	C	Sidechain
1	AA	1318	A	Sidechain
1	AA	1320	C	Sidechain
1	AA	1328	C	Sidechain
1	AA	1330	U	Sidechain
1	AA	1331	G	Sidechain
1	AA	1342	C	Sidechain
1	AA	1344	C	Sidechain
1	AA	1347	G	Sidechain
1	AA	1348	U	Sidechain
1	AA	1354	C	Sidechain
1	AA	1372	U	Sidechain
1	AA	1377	A	Sidechain
1	AA	1380	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1405	G	Sidechain
1	AA	1407	C	Sidechain
1	AA	1408	A	Sidechain
1	AA	1418	A	Sidechain
1	AA	1427	U	Sidechain
1	AA	1442	G	Sidechain
1	AA	146	G	Sidechain
1	AA	1481	U	Sidechain
1	AA	1507	A	Sidechain
1	AA	1509	C	Sidechain
1	AA	1521	G	Sidechain
1	AA	1540	U	Sidechain
1	AA	155	C	Sidechain
1	AA	158	G	Sidechain
1	AA	159	G	Sidechain
1	AA	164	U	Sidechain
1	AA	186	C	Sidechain
1	AA	191(C)	G	Sidechain
1	AA	191(D)	U	Sidechain
1	AA	191(F)	U	Sidechain
1	AA	201	C	Sidechain
1	AA	21	G	Sidechain
1	AA	210	U	Sidechain
1	AA	219	C	Sidechain
1	AA	220	G	Sidechain
1	AA	225	C	Sidechain
1	AA	231	G	Sidechain
1	AA	234	C	Sidechain
1	AA	24	U	Sidechain
1	AA	242	C	Sidechain
1	AA	253	U	Sidechain
1	AA	264	U	Sidechain
1	AA	267	C	Sidechain
1	AA	27	G	Sidechain
1	AA	274	A	Sidechain
1	AA	287	U	Sidechain
1	AA	294	U	Sidechain
1	AA	295	C	Sidechain
1	AA	296	U	Sidechain
1	AA	303	A	Sidechain
1	AA	312	C	Sidechain
1	AA	314	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	319	G	Sidechain
1	AA	329	A	Sidechain
1	AA	348	G	Sidechain
1	AA	352	C	Sidechain
1	AA	362	G	Sidechain
1	AA	367	U	Sidechain
1	AA	368	U	Sidechain
1	AA	37	U	Sidechain
1	AA	378	G	Sidechain
1	AA	384	G	Sidechain
1	AA	385	C	Sidechain
1	AA	388	G	Sidechain
1	AA	396	G	Sidechain
1	AA	397	A	Sidechain
1	AA	398	C	Sidechain
1	AA	403	C	Sidechain
1	AA	406	G	Sidechain
1	AA	409	G	Sidechain
1	AA	41	G	Sidechain
1	AA	420	U	Sidechain
1	AA	430	A	Sidechain
1	AA	45	U	Sidechain
1	AA	47	C	Sidechain
1	AA	474	G	Sidechain
1	AA	482	A	Sidechain
1	AA	484	G	Sidechain
1	AA	493	G	Sidechain
1	AA	529	G	Sidechain
1	AA	53	A	Sidechain
1	AA	530	G	Sidechain
1	AA	531	U	Sidechain
1	AA	533	A	Sidechain
1	AA	54	C	Sidechain
1	AA	543	C	Sidechain
1	AA	544	G	Sidechain
1	AA	559	A	Sidechain
1	AA	56	U	Sidechain
1	AA	560	U	Sidechain
1	AA	563	A	Sidechain
1	AA	575	G	Sidechain
1	AA	576	G	Sidechain
1	AA	582	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	587	G	Sidechain
1	AA	590	C	Sidechain
1	AA	591	U	Sidechain
1	AA	594	G	Sidechain
1	AA	596	C	Sidechain
1	AA	6	G	Sidechain
1	AA	616	G	Sidechain
1	AA	632	A	Sidechain
1	AA	633	G	Sidechain
1	AA	634	C	Sidechain
1	AA	639	G	Sidechain
1	AA	644	G	Sidechain
1	AA	666	G	Sidechain
1	AA	672	U	Sidechain
1	AA	675	A	Sidechain
1	AA	678	U	Sidechain
1	AA	689	C	Sidechain
1	AA	690	G	Sidechain
1	AA	7	G	Sidechain
1	AA	703	G	Sidechain
1	AA	705	U	Sidechain
1	AA	707	C	Sidechain
1	AA	717	C	Sidechain
1	AA	741	G	Sidechain
1	AA	749	C	Sidechain
1	AA	75	C	Sidechain
1	AA	760	G	Sidechain
1	AA	774	G	Sidechain
1	AA	779	C	Sidechain
1	AA	783	C	Sidechain
1	AA	792	A	Sidechain
1	AA	803	G	Sidechain
1	AA	81	G	Sidechain
1	AA	810	C	Sidechain
1	AA	813	U	Sidechain
1	AA	815	A	Sidechain
1	AA	818	G	Sidechain
1	AA	819	A	Sidechain
1	AA	82	U	Sidechain
1	AA	820	U	Sidechain
1	AA	841	U	Sidechain
1	AA	852	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	853	G	Sidechain
1	AA	855	G	Sidechain
1	AA	861	G	Sidechain
1	AA	862	C	Sidechain
1	AA	863	U	Sidechain
1	AA	87	A	Sidechain
1	AA	873	A	Sidechain
1	AA	89	U	Sidechain
1	AA	895	G	Sidechain
1	AA	897	C	Sidechain
1	AA	898	G	Sidechain
1	AA	901	A	Sidechain
1	AA	914	A	Sidechain
1	AA	918	A	Sidechain
1	AA	946	A	Sidechain
1	AA	947	G	Sidechain
1	AA	955	U	Sidechain
1	AA	961	U	Sidechain
1	AA	974	A	Sidechain
1	AA	976	G	Sidechain
1	AA	982	U	Sidechain
1	AA	983	A	Sidechain
1	AA	989	C	Sidechain
1	AA	998(A)	C	Sidechain
2	AC	19	G	Sidechain
2	AC	20	U	Sidechain
2	AC	24	U	Sidechain
2	AC	25	C	Sidechain
2	AC	26	G	Sidechain
2	AC	33	U	Sidechain
2	AC	35	A	Sidechain
2	AC	42	G	Sidechain
2	AC	44	A	Sidechain
2	AC	46	G	Sidechain
2	AC	47	U	Sidechain
2	AC	60	U	Sidechain
2	AC	63	G	Sidechain
3	AD	17	U	Sidechain
3	AD	25	C	Sidechain
3	AD	39	U	Sidechain
3	AD	4	G	Sidechain
3	AD	40	C	Sidechain

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Mol	Chain	Res	Type	Group
3	AD	51	C	Sidechain
3	AD	8	U	Sidechain
5	AF	48	TYR	Sidechain
10	AK	58	TYR	Sidechain
13	AN	75	TYR	Sidechain
50	B3	25	TYR	Sidechain
50	B3	32	TYR	Sidechain
24	BA	1010	A	Sidechain
24	BA	1012	U	Sidechain
24	BA	1018	C	Sidechain
24	BA	1022	G	Sidechain
24	BA	1023	U	Sidechain
24	BA	1029	A	Sidechain
24	BA	1040	C	Sidechain
24	BA	1042	G	Sidechain
24	BA	1043	C	Sidechain
24	BA	105	C	Sidechain
24	BA	1052	C	Sidechain
24	BA	1053	C	Sidechain
24	BA	1054	A	Sidechain
24	BA	1080	C	Sidechain
24	BA	1082	U	Sidechain
24	BA	1092	C	Sidechain
24	BA	1101	U	Sidechain
24	BA	1102	C	Sidechain
24	BA	1104	C	Sidechain
24	BA	1105	U	Sidechain
24	BA	1108	U	Sidechain
24	BA	1129	A	Sidechain
24	BA	1133	U	Sidechain
24	BA	1134	G	Sidechain
24	BA	114	U	Sidechain
24	BA	1142	U	Sidechain
24	BA	1143	A	Sidechain
24	BA	1153	C	Sidechain
24	BA	1156	A	Sidechain
24	BA	1159	U	Sidechain
24	BA	1160	G	Sidechain
24	BA	1161	C	Sidechain
24	BA	1165	U	Sidechain
24	BA	1169	G	Sidechain
24	BA	1179	C	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1183	G	Sidechain
24	BA	1187	G	Sidechain
24	BA	1188	U	Sidechain
24	BA	1194	A	Sidechain
24	BA	1198	U	Sidechain
24	BA	1206	G	Sidechain
24	BA	1234	U	Sidechain
24	BA	1236	G	Sidechain
24	BA	1240	U	Sidechain
24	BA	1242	A	Sidechain
24	BA	1247	A	Sidechain
24	BA	1260	G	Sidechain
24	BA	1264	G	Sidechain
24	BA	1265	A	Sidechain
24	BA	1273	U	Sidechain
24	BA	1274	A	Sidechain
24	BA	1284	A	Sidechain
24	BA	1310	G	Sidechain
24	BA	1316	U	Sidechain
24	BA	1322	A	Sidechain
24	BA	1326	U	Sidechain
24	BA	1329	U	Sidechain
24	BA	133	C	Sidechain
24	BA	1330	C	Sidechain
24	BA	1332	G	Sidechain
24	BA	134	C	Sidechain
24	BA	1343	G	Sidechain
24	BA	135	G	Sidechain
24	BA	1359	A	Sidechain
24	BA	1362	C	Sidechain
24	BA	1363	C	Sidechain
24	BA	1368	G	Sidechain
24	BA	1372	U	Sidechain
24	BA	1379	A	Sidechain
24	BA	138	G	Sidechain
24	BA	1393	A	Sidechain
24	BA	14	A	Sidechain
24	BA	141(A)	C	Sidechain
24	BA	1421	G	Sidechain
24	BA	1423	G	Sidechain
24	BA	1437	C	Sidechain
24	BA	1450	C	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1451	C	Sidechain
24	BA	1454	U	Sidechain
24	BA	1462	C	Sidechain
24	BA	1470	G	Sidechain
24	BA	1474	C	Sidechain
24	BA	1477	A	Sidechain
24	BA	1479	G	Sidechain
24	BA	1480	G	Sidechain
24	BA	1497	U	Sidechain
24	BA	151	C	Sidechain
24	BA	1513	C	Sidechain
24	BA	1514	U	Sidechain
24	BA	1516	U	Sidechain
24	BA	1517	G	Sidechain
24	BA	1518	C	Sidechain
24	BA	1520	U	Sidechain
24	BA	1523	U	Sidechain
24	BA	1525	G	Sidechain
24	BA	1526	G	Sidechain
24	BA	1533	C	Sidechain
24	BA	1539	G	Sidechain
24	BA	1541	U	Sidechain
24	BA	1542	G	Sidechain
24	BA	1549	C	Sidechain
24	BA	1564	C	Sidechain
24	BA	1575	C	Sidechain
24	BA	1576	U	Sidechain
24	BA	1597	A	Sidechain
24	BA	1604	C	Sidechain
24	BA	1606	G	Sidechain
24	BA	1617	C	Sidechain
24	BA	1623	G	Sidechain
24	BA	1625	C	Sidechain
24	BA	1627	G	Sidechain
24	BA	1628	G	Sidechain
24	BA	1635	G	Sidechain
24	BA	1648	C	Sidechain
24	BA	1650	G	Sidechain
24	BA	1653	G	Sidechain
24	BA	1657	C	Sidechain
24	BA	1659	U	Sidechain
24	BA	1664	A	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1666	G	Sidechain
24	BA	1667	G	Sidechain
24	BA	1668	A	Sidechain
24	BA	1671	U	Sidechain
24	BA	1676	A	Sidechain
24	BA	1686	C	Sidechain
24	BA	1691	C	Sidechain
24	BA	1695	G	Sidechain
24	BA	1699	G	Sidechain
24	BA	1700	A	Sidechain
24	BA	1706	U	Sidechain
24	BA	1716	U	Sidechain
24	BA	1718	G	Sidechain
24	BA	1726	G	Sidechain
24	BA	1727	U	Sidechain
24	BA	1734	C	Sidechain
24	BA	1735	C	Sidechain
24	BA	1752	C	Sidechain
24	BA	1755	A	Sidechain
24	BA	1757	U	Sidechain
24	BA	1762	A	Sidechain
24	BA	1764	G	Sidechain
24	BA	1771	C	Sidechain
24	BA	1775	U	Sidechain
24	BA	1776	G	Sidechain
24	BA	1777	U	Sidechain
24	BA	1778	U	Sidechain
24	BA	178	G	Sidechain
24	BA	1783	A	Sidechain
24	BA	1784	A	Sidechain
24	BA	1788	C	Sidechain
24	BA	1789	A	Sidechain
24	BA	1790	C	Sidechain
24	BA	1798	U	Sidechain
24	BA	1800	C	Sidechain
24	BA	1807	G	Sidechain
24	BA	1809	A	Sidechain
24	BA	1815	A	Sidechain
24	BA	1818	U	Sidechain
24	BA	1821	A	Sidechain
24	BA	1822	G	Sidechain
24	BA	1824	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1826	G	Sidechain
24	BA	1827	C	Sidechain
24	BA	1834	U	Sidechain
24	BA	1838	C	Sidechain
24	BA	1839	G	Sidechain
24	BA	1841	U	Sidechain
24	BA	1851	U	Sidechain
24	BA	188	G	Sidechain
24	BA	1892	C	Sidechain
24	BA	1893	C	Sidechain
24	BA	1894	C	Sidechain
24	BA	1899	G	Sidechain
24	BA	1906	G	Sidechain
24	BA	1911	U	Sidechain
24	BA	1913	A	Sidechain
24	BA	1918	A	Sidechain
24	BA	1919	A	Sidechain
24	BA	192	C	Sidechain
24	BA	1923	U	Sidechain
24	BA	1931	U	Sidechain
24	BA	1936	A	Sidechain
24	BA	1937	A	Sidechain
24	BA	1952	A	Sidechain
24	BA	1954	G	Sidechain
24	BA	1955	U	Sidechain
24	BA	1957	C	Sidechain
24	BA	1965	C	Sidechain
24	BA	1970	A	Sidechain
24	BA	1977	A	Sidechain
24	BA	1979	C	Sidechain
24	BA	1981	A	Sidechain
24	BA	1984	G	Sidechain
24	BA	1994	C	Sidechain
24	BA	1995	U	Sidechain
24	BA	200	U	Sidechain
24	BA	2000	G	Sidechain
24	BA	2009	G	Sidechain
24	BA	2021	C	Sidechain
24	BA	2024	G	Sidechain
24	BA	2033	A	Sidechain
24	BA	2039	C	Sidechain
24	BA	2040	C	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2041	U	Sidechain
24	BA	2044	C	Sidechain
24	BA	2048	G	Sidechain
24	BA	205	G	Sidechain
24	BA	2051	A	Sidechain
24	BA	2056	G	Sidechain
24	BA	2061	G	Sidechain
24	BA	2062	A	Sidechain
24	BA	2065	C	Sidechain
24	BA	2068	U	Sidechain
24	BA	2073	C	Sidechain
24	BA	2086	U	Sidechain
24	BA	2089	U	Sidechain
24	BA	2096	U	Sidechain
24	BA	2098	U	Sidechain
24	BA	2108	C	Sidechain
24	BA	2115	G	Sidechain
24	BA	2116	G	Sidechain
24	BA	2118	U	Sidechain
24	BA	2128	C	Sidechain
24	BA	2130	U	Sidechain
24	BA	2132	U	Sidechain
24	BA	2138	C	Sidechain
24	BA	2143	C	Sidechain
24	BA	2161	C	Sidechain
24	BA	2174	C	Sidechain
24	BA	2175	C	Sidechain
24	BA	2189	U	Sidechain
24	BA	2192	G	Sidechain
24	BA	2195	C	Sidechain
24	BA	2208	U	Sidechain
24	BA	2215	G	Sidechain
24	BA	223	A	Sidechain
24	BA	224	G	Sidechain
24	BA	2246	G	Sidechain
24	BA	2248	C	Sidechain
24	BA	2249	U	Sidechain
24	BA	2254	C	Sidechain
24	BA	2255	G	Sidechain
24	BA	2259	G	Sidechain
24	BA	2265	U	Sidechain
24	BA	2266	A	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2272	U	Sidechain
24	BA	2280	G	Sidechain
24	BA	2282	G	Sidechain
24	BA	2284	C	Sidechain
24	BA	2287	A	Sidechain
24	BA	2288	A	Sidechain
24	BA	2293	C	Sidechain
24	BA	2295	C	Sidechain
24	BA	2299	G	Sidechain
24	BA	2301	C	Sidechain
24	BA	2308	G	Sidechain
24	BA	2317	C	Sidechain
24	BA	2318	G	Sidechain
24	BA	2325	G	Sidechain
24	BA	2326	C	Sidechain
24	BA	2331	G	Sidechain
24	BA	2332	U	Sidechain
24	BA	2336	A	Sidechain
24	BA	2337	G	Sidechain
24	BA	2352	A	Sidechain
24	BA	2364	C	Sidechain
24	BA	2377	A	Sidechain
24	BA	2384	G	Sidechain
24	BA	2393	A	Sidechain
24	BA	2394	C	Sidechain
24	BA	2395	C	Sidechain
24	BA	2411	A	Sidechain
24	BA	2413	G	Sidechain
24	BA	2419	U	Sidechain
24	BA	242	G	Sidechain
24	BA	2422	A	Sidechain
24	BA	2423	U	Sidechain
24	BA	2430	A	Sidechain
24	BA	2431	U	Sidechain
24	BA	2432	A	Sidechain
24	BA	2434	A	Sidechain
24	BA	2437	U	Sidechain
24	BA	244	A	Sidechain
24	BA	2441	C	Sidechain
24	BA	2443	C	Sidechain
24	BA	2444	G	Sidechain
24	BA	2449	U	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2454	G	Sidechain
24	BA	2455	G	Sidechain
24	BA	2459	A	Sidechain
24	BA	2460	U	Sidechain
24	BA	2462	U	Sidechain
24	BA	248	G	Sidechain
24	BA	2480	C	Sidechain
24	BA	2481	G	Sidechain
24	BA	2484	G	Sidechain
24	BA	2486	G	Sidechain
24	BA	2491	U	Sidechain
24	BA	2493	U	Sidechain
24	BA	2496	C	Sidechain
24	BA	2497	A	Sidechain
24	BA	2498	C	Sidechain
24	BA	25	U	Sidechain
24	BA	2500	U	Sidechain
24	BA	2501	C	Sidechain
24	BA	2503	A	Sidechain
24	BA	2504	U	Sidechain
24	BA	251	A	Sidechain
24	BA	2514	U	Sidechain
24	BA	2515	C	Sidechain
24	BA	2516	G	Sidechain
24	BA	2518	A	Sidechain
24	BA	2521	C	Sidechain
24	BA	2525	G	Sidechain
24	BA	2527	C	Sidechain
24	BA	2529	G	Sidechain
24	BA	2532	G	Sidechain
24	BA	254	G	Sidechain
24	BA	2540	C	Sidechain
24	BA	2546	U	Sidechain
24	BA	2550	G	Sidechain
24	BA	2560	C	Sidechain
24	BA	2562	U	Sidechain
24	BA	2568	C	Sidechain
24	BA	2569	G	Sidechain
24	BA	2571	C	Sidechain
24	BA	2576	G	Sidechain
24	BA	2577	A	Sidechain
24	BA	2583	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2584	U	Sidechain
24	BA	2586	C	Sidechain
24	BA	2592	G	Sidechain
24	BA	2595	G	Sidechain
24	BA	2600	A	Sidechain
24	BA	2601	C	Sidechain
24	BA	2604	U	Sidechain
24	BA	2608	G	Sidechain
24	BA	2609	U	Sidechain
24	BA	2615	U	Sidechain
24	BA	2619	C	Sidechain
24	BA	2623	G	Sidechain
24	BA	2636	U	Sidechain
24	BA	2637	U	Sidechain
24	BA	2641	G	Sidechain
24	BA	2645	G	Sidechain
24	BA	2649	U	Sidechain
24	BA	265	A	Sidechain
24	BA	2651	C	Sidechain
24	BA	2652	C	Sidechain
24	BA	2656	U	Sidechain
24	BA	2658	C	Sidechain
24	BA	2665	A	Sidechain
24	BA	2687	U	Sidechain
24	BA	2689	U	Sidechain
24	BA	2691	C	Sidechain
24	BA	2696	U	Sidechain
24	BA	270	A	Sidechain
24	BA	270(C)	C	Sidechain
24	BA	270(G)	C	Sidechain
24	BA	270(H)	C	Sidechain
24	BA	270(P)	C	Sidechain
24	BA	270(Q)	C	Sidechain
24	BA	270(W)	G	Sidechain
24	BA	270(Z)	U	Sidechain
24	BA	2702	U	Sidechain
24	BA	2706	G	Sidechain
24	BA	2708	G	Sidechain
24	BA	271(C)	U	Sidechain
24	BA	2724	C	Sidechain
24	BA	2725	A	Sidechain
24	BA	2726	U	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2727	G	Sidechain
24	BA	2728	U	Sidechain
24	BA	273(B)	C	Sidechain
24	BA	273(D)	C	Sidechain
24	BA	273(E)	U	Sidechain
24	BA	2732	G	Sidechain
24	BA	2739	U	Sidechain
24	BA	2758	A	Sidechain
24	BA	2769	C	Sidechain
24	BA	2777	G	Sidechain
24	BA	278	A	Sidechain
24	BA	2781	A	Sidechain
24	BA	2787	C	Sidechain
24	BA	2791	C	Sidechain
24	BA	280	C	Sidechain
24	BA	2809	A	Sidechain
24	BA	2816	C	Sidechain
24	BA	2823	A	Sidechain
24	BA	2825	C	Sidechain
24	BA	2826	A	Sidechain
24	BA	2834	G	Sidechain
24	BA	284	U	Sidechain
24	BA	2845	G	Sidechain
24	BA	2853	C	Sidechain
24	BA	2865	U	Sidechain
24	BA	2866	U	Sidechain
24	BA	2871	C	Sidechain
24	BA	288	C	Sidechain
24	BA	2885	C	Sidechain
24	BA	2887	U	Sidechain
24	BA	296	C	Sidechain
24	BA	3	U	Sidechain
24	BA	32	C	Sidechain
24	BA	337	C	Sidechain
24	BA	350	U	Sidechain
24	BA	353	G	Sidechain
24	BA	354	G	Sidechain
24	BA	358	U	Sidechain
24	BA	362	U	Sidechain
24	BA	363(E)	U	Sidechain
24	BA	366	C	Sidechain
24	BA	376	C	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	379	G	Sidechain
24	BA	380	U	Sidechain
24	BA	384	U	Sidechain
24	BA	386	G	Sidechain
24	BA	387	U	Sidechain
24	BA	411	G	Sidechain
24	BA	416	C	Sidechain
24	BA	421	U	Sidechain
24	BA	427	U	Sidechain
24	BA	429	A	Sidechain
24	BA	446	G	Sidechain
24	BA	448	U	Sidechain
24	BA	455	C	Sidechain
24	BA	463	G	Sidechain
24	BA	474	G	Sidechain
24	BA	511	U	Sidechain
24	BA	520	G	Sidechain
24	BA	521	G	Sidechain
24	BA	525	U	Sidechain
24	BA	527	C	Sidechain
24	BA	528	A	Sidechain
24	BA	530	G	Sidechain
24	BA	534	U	Sidechain
24	BA	548	A	Sidechain
24	BA	549	G	Sidechain
24	BA	553	U	Sidechain
24	BA	560	C	Sidechain
24	BA	565	C	Sidechain
24	BA	566	U	Sidechain
24	BA	567	A	Sidechain
24	BA	569	U	Sidechain
24	BA	572	A	Sidechain
24	BA	583	G	Sidechain
24	BA	584	C	Sidechain
24	BA	585	G	Sidechain
24	BA	594	U	Sidechain
24	BA	597	U	Sidechain
24	BA	601	C	Sidechain
24	BA	605	C	Sidechain
24	BA	606	U	Sidechain
24	BA	607	U	Sidechain
24	BA	609(A)	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	610	C	Sidechain
24	BA	611	C	Sidechain
24	BA	614	U	Sidechain
24	BA	618(A)	C	Sidechain
24	BA	621	A	Sidechain
24	BA	639	U	Sidechain
24	BA	641	C	Sidechain
24	BA	646	A	Sidechain
24	BA	649	G	Sidechain
24	BA	650	C	Sidechain
24	BA	654	A	Sidechain
24	BA	658	C	Sidechain
24	BA	662	G	Sidechain
24	BA	67	U	Sidechain
24	BA	670	A	Sidechain
24	BA	676	A	Sidechain
24	BA	679	C	Sidechain
24	BA	683	C	Sidechain
24	BA	687	C	Sidechain
24	BA	695	G	Sidechain
24	BA	697	C	Sidechain
24	BA	701	G	Sidechain
24	BA	703	U	Sidechain
24	BA	705	A	Sidechain
24	BA	709	U	Sidechain
24	BA	715	G	Sidechain
24	BA	717	G	Sidechain
24	BA	723	G	Sidechain
24	BA	729	G	Sidechain
24	BA	730	C	Sidechain
24	BA	739	G	Sidechain
24	BA	740	U	Sidechain
24	BA	748	G	Sidechain
24	BA	752	A	Sidechain
24	BA	753	C	Sidechain
24	BA	758	C	Sidechain
24	BA	759	G	Sidechain
24	BA	762	U	Sidechain
24	BA	764	A	Sidechain
24	BA	776	G	Sidechain
24	BA	778	G	Sidechain
24	BA	779	U	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	785	G	Sidechain
24	BA	789	A	Sidechain
24	BA	792	G	Sidechain
24	BA	794	G	Sidechain
24	BA	801	G	Sidechain
24	BA	805	G	Sidechain
24	BA	807	U	Sidechain
24	BA	825	C	Sidechain
24	BA	833	U	Sidechain
24	BA	838	C	Sidechain
24	BA	847	U	Sidechain
24	BA	848	G	Sidechain
24	BA	858	U	Sidechain
24	BA	86	C	Sidechain
24	BA	860	U	Sidechain
24	BA	861	A	Sidechain
24	BA	864	G	Sidechain
24	BA	865	C	Sidechain
24	BA	869	G	Sidechain
24	BA	870	A	Sidechain
24	BA	871	U	Sidechain
24	BA	879	G	Sidechain
24	BA	893	C	Sidechain
24	BA	898	C	Sidechain
24	BA	902	C	Sidechain
24	BA	907	U	Sidechain
24	BA	908	C	Sidechain
24	BA	913	U	Sidechain
24	BA	917	A	Sidechain
24	BA	918	A	Sidechain
24	BA	920	G	Sidechain
24	BA	922	U	Sidechain
24	BA	924	C	Sidechain
24	BA	930	U	Sidechain
24	BA	944	G	Sidechain
24	BA	945	A	Sidechain
24	BA	946	G	Sidechain
24	BA	960	A	Sidechain
24	BA	963	U	Sidechain
24	BA	964	C	Sidechain
24	BA	971	C	Sidechain
24	BA	973	A	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	979	G	Sidechain
24	BA	980	A	Sidechain
24	BA	982	C	Sidechain
24	BA	983	A	Sidechain
24	BA	986	C	Sidechain
24	BA	987	G	Sidechain
24	BA	990	A	Sidechain
25	BB	105	G	Sidechain
25	BB	11	C	Sidechain
25	BB	119	A	Sidechain
25	BB	120	U	Sidechain
25	BB	22	U	Sidechain
25	BB	38	C	Sidechain
25	BB	49	C	Sidechain
25	BB	54	G	Sidechain
25	BB	55	U	Sidechain
25	BB	58	A	Sidechain
25	BB	64	C	Sidechain
25	BB	68	C	Sidechain
25	BB	71	C	Sidechain
25	BB	8	U	Sidechain
25	BB	88	C	Sidechain
25	BB	93	C	Sidechain
27	BD	172	TYR	Sidechain
27	BD	9	TYR	Sidechain
28	BE	151	TYR	Sidechain
29	BF	99	TYR	Sidechain
31	BH	164	TYR	Sidechain
37	BP	26	TYR	Sidechain
37	BP	74	TYR	Sidechain
37	BP	93	TYR	Sidechain
40	BS	14	TYR	Sidechain
40	BS	32	TYR	Sidechain
42	BU	81	TYR	Sidechain
42	BU	91	TYR	Sidechain
43	BV	70	TYR	Sidechain
44	BW	5	TYR	Sidechain

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	AA	32554	0	16429	6468	0
2	AC	1624	0	826	363	0
3	AD	1623	0	821	385	0
4	AE	1900	0	1951	934	0
5	AF	1612	0	1677	695	0
6	AG	1703	0	1763	800	0
7	AH	1146	0	1207	493	0
8	AI	843	0	857	370	0
9	AJ	1257	0	1296	561	0
10	AK	1116	0	1177	644	0
11	AL	1010	0	1037	460	0
12	AM	794	0	840	363	0
13	AN	885	0	904	407	0
14	AO	970	0	1057	440	0
15	AP	997	0	1072	511	0
16	AQ	492	0	529	255	0
17	AR	734	0	771	300	0
18	AS	700	0	720	308	0
19	AT	857	0	930	415	0
20	AU	597	0	668	331	0
21	AV	647	0	673	300	0
22	AW	763	0	861	356	0
23	AX	208	0	221	83	0
24	BA	62218	0	31353	15020	0
25	BB	2641	0	1337	589	1
26	BC	1742	0	1796	854	0
27	BD	2124	0	2207	1514	0
28	BE	1578	0	1647	1071	0
29	BF	1625	0	1666	891	0
30	BG	1482	0	1546	966	0
31	BH	1328	0	1408	737	0
32	BK	1155	0	1244	550	0
33	BL	1025	0	1074	489	0
34	BM	1113	0	1183	765	0
35	BN	932	0	994	688	0
36	BO	1106	0	1183	834	0
37	BP	1080	0	1127	704	0
38	BQ	960	0	1021	511	0
39	BR	877	0	938	586	0
40	BS	976	0	1033	667	0
41	BT	964	0	1022	665	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	BU	779	0	852	580	0
43	BV	876	0	941	448	0
44	BW	742	0	800	376	0
45	BX	844	0	930	504	0
46	BY	1435	0	1463	735	0
47	BZ	670	0	700	371	0
48	B1	567	0	621	314	0
49	B2	469	0	518	304	0
50	B3	581	0	577	360	0
51	B4	445	0	459	296	0
52	B5	426	0	452	291	0
53	B6	430	0	480	261	0
54	B7	515	0	587	388	0
55	B8	307	0	335	148	0
All	All	149044	0	101781	45453	1

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 182.

All (45453) 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)
46:BY:27:VAL:HG23	46:BY:85:HIS:CE1	1.45	1.50
46:BY:27:VAL:CG2	46:BY:85:HIS:CE1	1.95	1.45
35:BN:64:ARG:HH11	35:BN:68:GLU:N	1.15	1.44
24:BA:775:G:H2'	24:BA:794:G:C8	1.54	1.42
24:BA:1201:C:N4	24:BA:1241:A:H61	1.15	1.39
46:BY:27:VAL:HG23	46:BY:85:HIS:NE2	1.13	1.38
24:BA:1241:A:C5'	24:BA:1241:A:N3	1.84	1.38
24:BA:2553:G:N2	24:BA:2554:U:H1'	1.30	1.38
24:BA:1298:C:H1'	24:BA:1302:A:N7	1.40	1.37
24:BA:2459:A:N3	24:BA:2460:U:H1'	1.40	1.37
19:AT:5:VAL:HG13	19:AT:59:ILE:O	1.26	1.35
42:BU:40:LEU:N	42:BU:54:GLY:HA3	1.40	1.35
1:AA:559:A:H4'	1:AA:560:U:C5'	1.57	1.34
24:BA:1241:A:H5''	24:BA:1241:A:N3	1.01	1.32
24:BA:828:U:H2'	24:BA:829:A:C8	1.64	1.32
40:BS:64:ARG:HA	40:BS:64:ARG:NH1	1.45	1.31
24:BA:2596:U:H2'	27:BD:242:ARG:CZ	1.59	1.31
1:AA:197:A:N6	1:AA:221:C:H5'	1.42	1.30
6:AG:31:CYS:SG	6:AG:33:MET:SD	2.29	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:775:G:N2	24:BA:787:U:H2'	1.47	1.29
24:BA:459:U:OP2	53:B6:40:TRP:HA	1.30	1.28
24:BA:861:A:N6	24:BA:917:A:H62	1.29	1.28
24:BA:1535:U:H2'	24:BA:1536:A:O4'	1.32	1.28
24:BA:632:A:H2'	24:BA:633:A:C8	1.68	1.28
31:BH:8:PRO:HA	31:BH:51:ARG:NH1	1.47	1.28
40:BS:33:LYS:HA	40:BS:46:GLU:O	1.27	1.27
24:BA:962:G:H2'	24:BA:963:U:C6	1.69	1.27
24:BA:2459:A:H2'	24:BA:2460:U:O4'	1.33	1.27
6:AG:59:ARG:HA	6:AG:59:ARG:CZ	1.64	1.26
46:BY:24:LEU:O	46:BY:39:VAL:HB	1.31	1.26
24:BA:2307:G:H3'	24:BA:2308:G:C8	1.69	1.26
37:BP:137:TYR:OH	46:BY:99:TYR:CE2	1.87	1.25
24:BA:1312:U:H2'	24:BA:1313:U:O4'	1.37	1.25
47:BZ:51:VAL:HG21	47:BZ:79:VAL:O	1.37	1.25
49:B2:4:LEU:O	49:B2:37:LEU:HB3	1.22	1.25
24:BA:2491:U:C6	24:BA:2492:U:H5'	1.70	1.25
29:BF:19:GLU:C	29:BF:20:LEU:HD22	1.55	1.24
24:BA:1557:C:H2'	24:BA:1558:A:C8	1.73	1.24
24:BA:2014:A:H2'	24:BA:2015:A:C2	1.71	1.24
40:BS:21:GLU:O	40:BS:23:ARG:HG3	1.31	1.24
24:BA:1790:C:O2'	27:BD:209:ALA:HB1	1.30	1.24
1:AA:313:A:H2'	1:AA:314:C:C6	1.72	1.24
24:BA:1492:G:H2'	24:BA:1493:C:C4	1.72	1.23
1:AA:946:A:H2'	1:AA:947:G:C8	1.71	1.23
24:BA:2491:U:C6	24:BA:2491:U:H3'	1.72	1.23
41:BT:83:LEU:O	41:BT:86:ALA:HB3	1.38	1.23
32:BK:87:LYS:HA	32:BK:121:LYS:O	1.34	1.23
24:BA:1809:A:N1	50:B3:3:GLU:HG3	1.51	1.22
40:BS:32:TYR:O	40:BS:47:GLY:HA2	1.31	1.22
24:BA:1203:G:C6	24:BA:1240:U:C2	2.28	1.22
24:BA:1911:U:O2'	24:BA:1912:A:H5'	1.31	1.22
24:BA:1663:C:H2'	24:BA:1664:A:N3	1.52	1.22
24:BA:29:U:OP1	24:BA:583:G:H4'	1.36	1.22
45:BX:96:ILE:HB	45:BX:102:CYS:O	1.29	1.21
24:BA:1464:C:H4'	24:BA:1528:A:O2'	1.40	1.21
35:BN:97:ARG:HA	35:BN:97:ARG:CZ	1.69	1.21
29:BF:4:VAL:CG1	29:BF:20:LEU:HG	1.70	1.21
1:AA:197:A:N6	1:AA:221:C:C5'	2.04	1.21
13:AN:25:TYR:HA	13:AN:89:ALA:HB2	1.23	1.21
27:BD:55:GLY:N	27:BD:219:PRO:HD2	1.56	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:19:LYS:HB3	42:BU:21:ARG:NH1	1.56	1.21
24:BA:2461:C:H1'	24:BA:2492:U:C5	1.76	1.20
6:AG:20:TYR:HA	6:AG:26:CYS:O	1.37	1.20
24:BA:1241:A:H5''	24:BA:1241:A:C2	1.73	1.20
14:AO:56:ALA:HB3	14:AO:68:ALA:O	1.37	1.20
24:BA:1967:C:H42	24:BA:1968:G:N2	1.37	1.20
42:BU:40:LEU:H	42:BU:54:GLY:CA	1.54	1.20
38:BQ:105:ARG:HA	38:BQ:105:ARG:CZ	1.71	1.20
24:BA:2019:A:H3'	24:BA:2020:A:H5''	1.21	1.20
35:BN:7:TYR:HB3	35:BN:18:LYS:NZ	1.54	1.20
4:AE:56:ARG:NH1	4:AE:56:ARG:HB3	1.56	1.20
24:BA:533:G:H2'	24:BA:534:U:O4'	1.42	1.20
35:BN:6:THR:O	35:BN:20:MET:HA	1.38	1.19
34:BM:55:VAL:HB	34:BM:130:HIS:NE2	1.54	1.19
46:BY:127:LYS:HD2	46:BY:164:ALA:N	1.56	1.19
41:BT:55:ARG:HG3	41:BT:58:ARG:NH2	1.57	1.19
43:BV:5:ALA:HB2	43:BV:54:ALA:HB2	1.22	1.19
1:AA:372:C:H42	1:AA:389:A:N6	1.40	1.19
24:BA:612:G:H4'	24:BA:616:A:N6	1.57	1.19
39:BR:9:ARG:HB2	39:BR:9:ARG:NH1	1.55	1.18
1:AA:392:G:H5'	18:AS:12:LYS:NZ	1.58	1.18
52:B5:8:LYS:HE2	52:B5:29:ASN:HA	1.24	1.18
27:BD:244:ARG:N	27:BD:245:PRO:HD3	1.47	1.18
24:BA:2312:U:H5'	30:BG:43:LEU:HD22	1.25	1.18
24:BA:2461:C:H1'	24:BA:2492:U:H5	1.03	1.18
34:BM:36:GLY:O	34:BM:47:ALA:HB3	1.37	1.18
42:BU:39:LEU:HD21	42:BU:60:GLU:HG2	1.25	1.18
4:AE:176:GLU:O	4:AE:180:LEU:HG	1.39	1.18
9:AJ:132:GLY:O	9:AJ:136:LYS:HB2	1.43	1.18
24:BA:2329:G:H1	24:BA:2386:C:N4	1.41	1.18
46:BY:27:VAL:HG21	46:BY:85:HIS:HE1	1.04	1.18
24:BA:1782:C:N4	24:BA:2587:A:H62	1.42	1.18
24:BA:388:G:H2'	24:BA:390:A:N7	1.57	1.18
25:BB:89(A):A:H2'	25:BB:90:C:H5'	1.22	1.18
1:AA:372:C:N4	1:AA:389:A:H62	1.42	1.18
24:BA:2063:C:H1'	24:BA:2451:A:H2	1.06	1.18
37:BP:6:ARG:HB2	37:BP:44:ALA:HB3	1.24	1.18
9:AJ:38:LEU:HD12	9:AJ:41:ARG:HD3	1.21	1.18
24:BA:621:A:C8	24:BA:622:G:H5'	1.77	1.18
29:BF:4:VAL:HG13	29:BF:20:LEU:CG	1.73	1.17
46:BY:57:ILE:CG1	46:BY:70:LEU:HB3	1.75	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2685:G:H4'	35:BN:67:LYS:NZ	1.59	1.17
24:BA:1807:G:H1'	24:BA:1811:G:N2	1.59	1.17
40:BS:64:ARG:HH11	40:BS:64:ARG:CA	1.55	1.17
32:BK:125:GLU:CB	32:BK:143:SER:HA	1.73	1.17
24:BA:729:G:H2'	24:BA:730:C:C4'	1.73	1.17
39:BR:11:LYS:NZ	39:BR:15:ARG:HH22	1.42	1.17
6:AG:59:ARG:NH1	6:AG:59:ARG:HA	1.59	1.17
39:BR:6:ALA:O	39:BR:9:ARG:HB3	1.44	1.17
1:AA:279:A:H1'	1:AA:281:G:N3	1.58	1.17
33:BL:57:ILE:HA	33:BL:66:THR:O	1.45	1.17
26:BC:113:VAL:HB	26:BC:138:PRO:HG3	1.22	1.17
34:BM:78:TYR:HD1	34:BM:79:PRO:HD2	1.01	1.16
29:BF:153:SER:HA	29:BF:172:TRP:O	1.41	1.16
1:AA:1394:A:N7	1:AA:1501:C:H1'	1.57	1.16
9:AJ:45:ASP:HA	9:AJ:48:LYS:HD2	1.22	1.16
24:BA:2636:U:H1'	24:BA:2783:G:N2	1.58	1.16
29:BF:20:LEU:N	29:BF:20:LEU:HD22	1.51	1.16
30:BG:47:LYS:NZ	30:BG:73:ALA:HB3	1.59	1.16
36:BO:88:LEU:HG	36:BO:124:LYS:HE3	1.18	1.16
35:BN:18:LYS:HE2	35:BN:44:LYS:HD3	1.19	1.16
1:AA:665:A:H2'	1:AA:725:G:N2	1.59	1.16
31:BH:35:VAL:HB	31:BH:72:ILE:HD13	1.27	1.16
34:BM:74:ARG:HG3	34:BM:82:LEU:HD22	1.23	1.16
1:AA:946:A:H2'	1:AA:947:G:H8	1.02	1.16
24:BA:1241:A:OP2	24:BA:1241:A:C4	1.98	1.16
24:BA:2521:C:C2'	24:BA:2522:U:H5''	1.73	1.16
41:BT:92:ARG:HG2	41:BT:93:LYS:NZ	1.60	1.16
2:AC:34:C:C2'	2:AC:35:A:H5''	1.72	1.16
24:BA:2333:A:H1'	24:BA:2335:A:N3	1.60	1.16
24:BA:2756:U:C5	24:BA:2758:A:N6	2.13	1.16
24:BA:2063:C:H1'	24:BA:2451:A:C2	1.78	1.16
8:AI:23:LYS:HA	8:AI:26:ILE:HD12	1.27	1.16
24:BA:2332:U:H4'	24:BA:2336:A:N6	1.60	1.16
2:AC:15:G:N2	2:AC:48:C:H42	1.43	1.15
4:AE:111:ARG:HH11	4:AE:111:ARG:HA	1.01	1.15
10:AK:14:ARG:HH11	10:AK:14:ARG:HB3	1.02	1.15
50:B3:58:ARG:O	50:B3:61:ARG:HB2	1.41	1.15
24:BA:1789:A:H2'	27:BD:213:ARG:HH22	1.00	1.15
24:BA:2415:G:H5''	36:BO:61:ARG:HB2	1.27	1.15
52:B5:20:ASN:ND2	52:B5:41:PRO:HB2	1.61	1.15
36:BO:124:LYS:HB2	36:BO:143:GLY:CA	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:173:U:C5'	1:AA:197:A:H1'	1.75	1.15
2:AC:15:G:H22	2:AC:48:C:N4	1.42	1.15
24:BA:1625:C:H2'	24:BA:1626:G:H4'	1.18	1.15
24:BA:323:G:H2'	29:BF:170:LEU:HB2	1.27	1.15
28:BE:36:ARG:HB3	28:BE:41:LYS:HB2	1.25	1.15
29:BF:20:LEU:N	29:BF:20:LEU:CD2	2.07	1.15
31:BH:103:LEU:HB2	31:BH:115:VAL:HB	1.27	1.15
41:BT:56:ASP:O	41:BT:60:LEU:HD13	1.46	1.15
24:BA:2135:A:H4'	24:BA:2136:C:C5	1.80	1.15
14:AO:41:ARG:HB3	14:AO:41:ARG:HH11	1.10	1.15
24:BA:783:A:H4'	24:BA:2588:G:O3'	1.46	1.15
41:BT:102:GLU:O	41:BT:105:VAL:HG12	1.41	1.15
21:AV:41:VAL:HB	21:AV:42:PRO:HD2	1.17	1.15
24:BA:287:C:H2'	24:BA:288:C:C5	1.81	1.15
24:BA:627:A:H2'	24:BA:628:G:O4'	1.44	1.15
24:BA:1201:C:N4	24:BA:1241:A:N6	1.92	1.15
27:BD:182:LEU:HD12	27:BD:270:ILE:HD11	1.27	1.15
31:BH:94:TYR:HA	31:BH:106:THR:O	1.46	1.15
30:BG:49:ASP:HA	30:BG:53:LEU:HD22	1.29	1.15
19:AT:4:LYS:HD2	19:AT:5:VAL:H	1.12	1.15
24:BA:2701:C:H3'	24:BA:2702:U:H5''	1.23	1.15
24:BA:2756:U:C4	24:BA:2758:A:N6	2.13	1.15
24:BA:997:G:O2'	24:BA:998:C:H5'	1.45	1.15
44:BW:39:ILE:HG21	44:BW:54:VAL:HG11	1.22	1.15
20:AU:55:ARG:HB3	20:AU:55:ARG:NH1	1.62	1.15
24:BA:1784:A:H1'	24:BA:1785:A:N7	1.61	1.15
36:BO:73:GLY:HA2	36:BO:111:ARG:HG2	1.29	1.15
53:B6:1:MET:HB3	53:B6:3:ARG:HH11	1.08	1.14
27:BD:107:ALA:H	27:BD:108:PRO:HD3	1.12	1.14
27:BD:51:VAL:C	27:BD:52:ARG:HD3	1.67	1.14
24:BA:1324:G:H1'	24:BA:1616:A:N6	1.59	1.14
28:BE:18:ASP:HB3	35:BN:72:PRO:HA	1.25	1.14
32:BK:4:ILE:O	32:BK:36:ALA:HB1	1.45	1.14
38:BQ:99:LYS:HD2	38:BQ:99:LYS:H	1.10	1.14
42:BU:20:LEU:HD13	42:BU:68:LYS:HZ1	1.08	1.14
43:BV:13:SER:HB3	43:BV:16:LYS:HE2	1.28	1.14
24:BA:1498:C:C6	24:BA:1576:U:H4'	1.81	1.14
21:AV:62:ILE:HD11	21:AV:67:VAL:HA	1.20	1.14
24:BA:1568:G:P	27:BD:61:LEU:HB2	1.86	1.14
29:BF:6:VAL:H	29:BF:20:LEU:HD12	1.08	1.14
30:BG:78:SER:HB3	30:BG:82:LEU:HG	1.27	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:53:ARG:O	40:BS:64:ARG:HB3	1.45	1.14
1:AA:926:G:H2'	1:AA:1505:G:N2	1.63	1.14
27:BD:234:GLY:H	27:BD:241:PRO:HG2	1.10	1.14
31:BH:11:VAL:HG22	31:BH:15:VAL:HG11	1.30	1.14
37:BP:43:THR:HG23	37:BP:46:GLN:HE21	1.06	1.14
24:BA:1664:A:H2'	24:BA:1665:A:C8	1.81	1.14
24:BA:775:G:H1'	24:BA:791:C:H42	1.07	1.14
34:BM:43:THR:HB	34:BM:44:PRO:CD	1.73	1.14
44:BW:25:LYS:HG2	44:BW:82:GLN:HG3	1.25	1.14
28:BE:167:VAL:HG11	28:BE:170:LEU:HD13	1.28	1.14
37:BP:137:TYR:O	37:BP:138:ASP:CG	1.86	1.14
29:BF:6:VAL:HA	29:BF:20:LEU:HD13	1.28	1.14
4:AE:82:ARG:HD2	4:AE:92:TYR:OH	1.45	1.14
46:BY:94:GLU:H	46:BY:95:PRO:CD	1.59	1.14
1:AA:1536:C:H2'	1:AA:1537:U:C5	1.81	1.14
4:AE:174:VAL:O	4:AE:178:ARG:HB2	1.44	1.14
30:BG:49:ASP:O	30:BG:53:LEU:HB2	1.47	1.14
24:BA:1935:G:H2'	24:BA:1962:C:N3	1.63	1.14
13:AN:41:THR:HB	13:AN:71:LYS:HE3	1.29	1.13
49:B2:9:VAL:HG23	49:B2:10:LYS:H	0.97	1.13
24:BA:2658:C:C2'	24:BA:2659:G:H5'	1.76	1.13
24:BA:687:C:O2	24:BA:787:U:O3'	1.66	1.13
36:BO:121:LYS:C	36:BO:137:LYS:HB2	1.68	1.13
24:BA:833:U:H1'	36:BO:48:PRO:HD2	1.30	1.13
8:AI:30:LEU:HA	8:AI:75:LEU:HD11	1.16	1.13
24:BA:1668:A:N1	24:BA:1993:U:H1'	1.62	1.13
24:BA:2210:G:C5	27:BD:150:LYS:HA	1.82	1.13
32:BK:92:VAL:HB	32:BK:120:ILE:O	1.47	1.13
24:BA:953:A:H2'	24:BA:954:G:H5'	1.28	1.13
46:BY:127:LYS:HA	46:BY:164:ALA:HB3	1.24	1.13
8:AI:14:LEU:HD12	8:AI:19:LEU:HD12	1.21	1.13
1:AA:474:G:H5'	18:AS:81:ARG:HE	0.98	1.13
24:BA:2517:C:O2'	24:BA:2518:A:H5''	1.48	1.13
34:BM:18:ALA:HB3	34:BM:55:VAL:O	1.46	1.13
35:BN:9:GLU:HA	35:BN:17:ARG:O	1.46	1.13
43:BV:13:SER:OG	43:BV:14:PRO:HD2	1.48	1.13
45:BX:82:PRO:CD	45:BX:97:ARG:H	1.61	1.13
9:AJ:46:ALA:HA	9:AJ:49:ILE:HD12	1.14	1.13
51:B4:20:ARG:O	51:B4:23:HIS:HB2	1.47	1.13
24:BA:1394:U:H5''	24:BA:1603:A:O3'	1.49	1.13
38:BQ:66:VAL:HA	38:BQ:69:ASP:OD2	1.47	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:24:LEU:HD23	46:BY:25:PRO:HD2	1.14	1.13
51:B4:40:LYS:CE	51:B4:44:THR:H	1.61	1.13
30:BG:173:LEU:HD12	30:BG:176:LEU:HD12	1.27	1.13
46:BY:157:LEU:HD21	46:BY:163:LEU:HG	1.24	1.13
24:BA:1417:C:N4	24:BA:1581:G:H1	1.45	1.13
24:BA:1565:C:N3	24:BA:1567:A:H1'	1.62	1.13
42:BU:6:LYS:HG2	42:BU:12:TYR:N	1.62	1.13
1:AA:263:A:C2'	1:AA:264:U:H5''	1.77	1.13
5:AF:150:LYS:HB2	5:AF:173:VAL:HG21	1.27	1.13
55:B8:25:VAL:HB	55:B8:34:GLN:HB2	1.29	1.13
24:BA:2544:G:H5'	24:BA:2645:G:N7	1.63	1.13
24:BA:950:G:H2'	24:BA:951:C:C6	1.83	1.13
34:BM:71:ILE:HD11	34:BM:90:MET:HE3	1.28	1.13
42:BU:40:LEU:HD21	42:BU:55:ALA:HB2	1.29	1.13
32:BK:59:ALA:HA	32:BK:62:LYS:HD2	1.30	1.13
1:AA:1189:C:H5''	5:AF:5:ILE:HG12	1.31	1.13
24:BA:2306:C:H42	30:BG:45:GLU:HB2	1.09	1.13
28:BE:5:LEU:HD21	28:BE:25:VAL:HG12	1.16	1.13
36:BO:126:VAL:HB	36:BO:146:VAL:HG23	1.20	1.13
38:BQ:99:LYS:HA	38:BQ:112:ALA:HB2	1.31	1.13
46:BY:98:MET:O	46:BY:126:VAL:HA	1.47	1.13
12:AM:49:VAL:HG13	16:AQ:41:ARG:HD2	1.30	1.12
24:BA:1227:A:H8	24:BA:1228:G:H5''	1.14	1.12
25:BB:71:C:C2'	25:BB:72:G:H5'	1.77	1.12
27:BD:5:LYS:HG3	27:BD:82:ILE:H	1.13	1.12
34:BM:89:LYS:H	34:BM:89:LYS:NZ	1.46	1.12
35:BN:96:THR:HG22	35:BN:97:ARG:H	0.98	1.12
1:AA:571:U:C3'	1:AA:572:A:H5''	1.79	1.12
20:AU:55:ARG:HH11	20:AU:55:ARG:HB3	1.03	1.12
20:AU:67:ALA:HA	20:AU:70:ILE:HD12	1.25	1.12
24:BA:1326:U:C2'	24:BA:1327:C:H5'	1.79	1.12
24:BA:2521:C:H2'	24:BA:2522:U:C5'	1.78	1.12
39:BR:20:ARG:HA	39:BR:20:ARG:NH2	1.62	1.12
9:AJ:64:GLN:HB3	9:AJ:128:ALA:HB1	1.29	1.12
10:AK:63:LEU:HD13	10:AK:63:LEU:H	1.11	1.12
32:BK:39:ALA:O	32:BK:43:ASN:HB2	1.44	1.12
36:BO:124:LYS:HB2	36:BO:143:GLY:HA3	1.14	1.12
24:BA:747:U:O2'	43:BV:88:ARG:HG3	1.50	1.12
1:AA:559:A:C4'	1:AA:560:U:H5'	1.78	1.12
50:B3:7:PRO:HD2	50:B3:56:VAL:HG13	1.27	1.12
24:BA:2447:G:C3'	24:BA:2499:C:OP2	1.97	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:861:A:H2'	24:BA:862:G:H5'	1.29	1.12
28:BE:12:THR:HA	28:BE:21:VAL:HB	1.22	1.12
43:BV:82:LEU:HD12	43:BV:84:ARG:HG3	1.23	1.12
48:B1:23:LYS:HD3	48:B1:55:LEU:HD21	1.28	1.12
55:B8:19:ARG:O	55:B8:22:ARG:HB2	1.48	1.12
24:BA:2700:C:H2'	24:BA:2701:C:H5''	1.15	1.12
24:BA:704:G:H2'	24:BA:726:G:N2	1.64	1.12
24:BA:786:C:O2'	24:BA:787:U:H5'	1.50	1.12
24:BA:1566:A:N1	27:BD:215:LEU:HD13	1.63	1.12
1:AA:1404:C:H1'	1:AA:1499:A:C2	1.85	1.12
24:BA:833:U:C1'	36:BO:48:PRO:HD2	1.79	1.12
25:BB:46:A:H2'	25:BB:47:C:C6	1.84	1.12
24:BA:1813:G:H4'	27:BD:46:GLN:HB3	1.29	1.12
29:BF:168:ARG:NH2	29:BF:169:ASN:H	1.47	1.12
31:BH:43:VAL:HG22	31:BH:52:VAL:HA	1.22	1.12
41:BT:82:GLY:HA2	41:BT:117:GLN:NE2	1.64	1.12
17:AR:62:GLN:NE2	17:AR:66:LEU:HD21	1.65	1.12
18:AS:75:ARG:HA	18:AS:80:PHE:HB2	1.23	1.12
24:BA:614:U:H3'	24:BA:615:G:H4'	1.16	1.12
28:BE:175:VAL:HG12	28:BE:182:LEU:HD11	1.26	1.12
40:BS:50:ILE:HB	40:BS:66:VAL:HB	1.32	1.12
24:BA:1771:C:H2'	24:BA:1772:G:H5''	1.31	1.12
29:BF:103:LYS:HA	29:BF:106:ARG:HG2	1.27	1.12
30:BG:96:ARG:O	30:BG:99:MET:HB2	1.50	1.12
37:BP:16:ARG:CZ	37:BP:73:PRO:HD3	1.80	1.12
42:BU:40:LEU:HB3	42:BU:51:VAL:HG22	1.29	1.12
42:BU:28:GLU:HB3	42:BU:94:LEU:HD12	1.13	1.12
10:AK:18:ARG:HD2	10:AK:18:ARG:H	1.11	1.12
24:BA:1779:U:C2'	24:BA:1783:A:H62	1.62	1.12
24:BA:2832:U:H1'	24:BA:2834:G:N2	1.64	1.12
24:BA:2748:A:N3	31:BH:67:LEU:HD21	1.65	1.12
8:AI:48:LEU:HB3	20:AU:78:LEU:HD23	1.29	1.12
24:BA:87:C:H1'	48:B1:46:ARG:HH22	1.15	1.12
27:BD:232:PRO:HG2	27:BD:247:ALA:CA	1.80	1.12
34:BM:46:VAL:HG12	34:BM:47:ALA:N	1.60	1.12
41:BT:107:ALA:O	41:BT:110:VAL:HB	1.50	1.12
4:AE:155:LEU:HB2	4:AE:159:PRO:HG3	1.26	1.11
52:B5:15:GLU:HA	52:B5:21:TYR:HA	1.27	1.11
24:BA:1144:G:H2'	24:BA:1145:C:C6	1.85	1.11
24:BA:1270:C:H5'	24:BA:1271:G:H5''	1.16	1.11
24:BA:1510:A:H3'	24:BA:1511:A:C8	1.84	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:443:A:H5'	29:BF:45:ARG:HH12	1.13	1.11
24:BA:1803:A:H4'	27:BD:257:LEU:HD13	1.18	1.11
29:BF:164:ARG:HB2	29:BF:177:ALA:CB	1.78	1.11
30:BG:125:PHE:O	30:BG:126:ASP:HB2	1.48	1.11
33:BL:14:ALA:HB3	33:BL:49:GLY:HA3	1.18	1.11
41:BT:17:ILE:CA	41:BT:20:LEU:HG	1.80	1.11
8:AI:77:ARG:HA	8:AI:80:ARG:HD2	1.16	1.11
41:BT:89:GLU:HB3	42:BU:52:VAL:N	1.66	1.11
54:B7:30:ARG:HD2	54:B7:44:LYS:HD2	1.25	1.11
24:BA:1005:C:H2'	24:BA:1006:C:H6	1.11	1.11
24:BA:1513:C:H2'	24:BA:1514:U:C5	1.85	1.11
24:BA:414:C:H2'	24:BA:415:A:H8	1.16	1.11
36:BO:113:LYS:HA	36:BO:129:ALA:CB	1.77	1.11
24:BA:64:A:O2'	44:BW:71:GLY:HA3	1.49	1.11
21:AV:36:ARG:HE	21:AV:51:VAL:HG12	1.11	1.11
54:B7:25:MET:O	54:B7:27:THR:HG22	1.46	1.11
24:BA:2512:C:H5''	28:BE:120:TRP:CH2	1.85	1.11
24:BA:2681:C:O2'	24:BA:2682:U:H5'	1.47	1.11
27:BD:54:ARG:HB3	27:BD:218:ARG:HB3	1.32	1.11
35:BN:21:CYS:HA	35:BN:41:ALA:HB2	1.13	1.11
1:AA:1064:G:H1'	1:AA:1066:C:C4	1.84	1.11
24:BA:1697:G:C5'	24:BA:1698:A:H5'	1.80	1.11
30:BG:74:LYS:HD3	30:BG:87:PRO:HB2	1.27	1.11
34:BM:34:LEU:HD22	34:BM:116:LEU:HD21	1.31	1.11
46:BY:95:PRO:HG2	46:BY:131:ARG:H	1.13	1.11
5:AF:182:ILE:HG23	5:AF:203:PHE:HA	1.32	1.11
3:AD:76:A:C2'	24:BA:2432:A:H1'	1.80	1.11
24:BA:2889:C:H2'	24:BA:2891:G:H8	1.11	1.11
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.19	1.11
24:BA:1275:A:H2	38:BQ:16:HIS:HA	1.11	1.11
24:BA:2576:G:H4'	24:BA:2577:A:H5'	1.14	1.11
6:AG:30:LYS:HG2	6:AG:35:ARG:HD2	1.27	1.11
10:AK:14:ARG:NH1	10:AK:14:ARG:HB3	1.66	1.11
1:AA:1118:C:OP1	11:AL:104:ARG:HG3	1.49	1.11
30:BG:173:LEU:HA	30:BG:176:LEU:HB3	1.32	1.11
30:BG:53:LEU:HG	30:BG:72:ARG:HD3	1.13	1.11
35:BN:77:ILE:HG12	40:BS:75:ILE:HD12	1.26	1.11
40:BS:96:ARG:HG2	40:BS:117:ASP:HB3	1.23	1.11
41:BT:17:ILE:HA	41:BT:20:LEU:CG	1.80	1.11
32:BK:134:PRO:HB2	32:BK:135:GLU:OE2	1.50	1.11
4:AE:101:MET:CA	4:AE:108:ILE:HG13	1.81	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2286:A:H4'	24:BA:2287:A:H1'	1.24	1.11
24:BA:2447:G:C2	24:BA:2500:U:O4	2.03	1.11
24:BA:2498:C:C2'	24:BA:2499:C:H5''	1.80	1.11
28:BE:49:LEU:HD11	28:BE:74:PRO:HB2	1.15	1.11
34:BM:37:LYS:HD3	34:BM:43:THR:HG23	1.15	1.11
35:BN:63:VAL:HG12	35:BN:99:PHE:CE1	1.85	1.11
24:BA:623:G:H3'	36:BO:105:LEU:HD22	1.21	1.11
36:BO:122:PRO:HA	36:BO:137:LYS:O	1.50	1.11
41:BT:15:LYS:O	41:BT:18:LEU:HB3	1.48	1.11
34:BM:4:TYR:HB2	41:BT:64:ARG:HH12	1.11	1.11
6:AG:55:ALA:O	6:AG:59:ARG:HG2	1.49	1.11
9:AJ:35:LYS:HG2	9:AJ:37:ASN:HD21	1.13	1.11
24:BA:1777:U:O2'	24:BA:1778:U:H5'	1.50	1.11
24:BA:336:C:H2'	24:BA:337:C:H5'	1.32	1.11
34:BM:46:VAL:HG12	34:BM:47:ALA:H	0.94	1.11
35:BN:18:LYS:CE	35:BN:44:LYS:HD3	1.81	1.11
37:BP:16:ARG:HG3	37:BP:72:LYS:HD2	1.14	1.11
41:BT:59:ARG:HB3	41:BT:59:ARG:HH11	1.14	1.11
1:AA:47:C:H4'	1:AA:48:C:H5''	1.17	1.10
24:BA:1520:U:H2'	24:BA:1521:G:H5''	1.32	1.10
25:BB:51:G:H2'	25:BB:52:A:H5''	1.26	1.10
27:BD:244:ARG:H	27:BD:245:PRO:CD	1.63	1.10
30:BG:118:ARG:CZ	30:BG:120:LEU:HD21	1.81	1.10
30:BG:47:LYS:HG2	30:BG:73:ALA:HB2	1.27	1.10
51:B4:10:LYS:HD2	51:B4:15:ARG:NH2	1.66	1.10
24:BA:2809:A:H1'	24:BA:2811:G:N7	1.65	1.10
36:BO:55:ARG:HH21	36:BO:55:ARG:HB3	1.08	1.10
47:BZ:72:ARG:HB3	47:BZ:75:LEU:HD13	1.32	1.10
32:BK:81:VAL:HG22	32:BK:144:VAL:HG22	1.26	1.10
24:BA:241:A:O2'	24:BA:242:G:H4'	1.50	1.10
24:BA:2700:C:C2'	24:BA:2701:C:H5''	1.80	1.10
24:BA:2889:C:H2'	24:BA:2891:G:C8	1.86	1.10
43:BV:95:ILE:H	43:BV:95:ILE:HD12	1.10	1.10
24:BA:2250:G:O2'	24:BA:2496:C:H5'	1.51	1.10
24:BA:503:A:H4'	24:BA:504:U:H5''	1.34	1.10
1:AA:192:U:H1'	22:AW:103:GLY:HA2	1.34	1.10
1:AA:197:A:N6	1:AA:221:C:C4'	2.14	1.10
22:AW:43:LEU:HD12	22:AW:55:ILE:HD11	1.19	1.10
48:B1:45:ILE:HG13	48:B1:46:ARG:N	1.63	1.10
24:BA:1312:U:H3'	24:BA:1313:U:C5	1.85	1.10
24:BA:2754:U:H2'	24:BA:2755:C:H5''	1.26	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:28:VAL:HG22	40:BS:93:ARG:C	1.70	1.10
42:BU:76:LYS:HG2	42:BU:86:GLY:HA3	1.21	1.10
24:BA:1540:G:H2'	24:BA:1541:U:H5'	1.34	1.10
24:BA:2756:U:C4	24:BA:2758:A:C6	2.40	1.10
24:BA:729:G:C2'	24:BA:730:C:H4'	1.80	1.10
29:BF:155:LEU:HA	29:BF:174:VAL:HG22	1.29	1.10
30:BG:113:ARG:HE	30:BG:139:LEU:CD2	1.63	1.10
34:BM:78:TYR:CD1	34:BM:79:PRO:HD2	1.86	1.10
41:BT:89:GLU:HB3	42:BU:52:VAL:H	1.06	1.10
1:AA:50:A:H5''	1:AA:51:A:H5'	1.27	1.10
9:AJ:78:ARG:O	9:AJ:84:ASN:HA	1.50	1.10
17:AR:75:PRO:O	17:AR:78:TYR:HB3	1.49	1.10
24:BA:1044:G:H5''	24:BA:1045:A:H4'	1.18	1.10
25:BB:104:A:H2'	25:BB:105:G:O4'	1.50	1.10
24:BA:2748:A:H1'	31:BH:67:LEU:HD22	1.33	1.10
34:BM:74:ARG:HD2	34:BM:82:LEU:HD13	1.25	1.10
24:BA:2261:C:OP2	47:BZ:17:GLN:HB3	1.52	1.10
1:AA:186(A):C:H1'	22:AW:104:LEU:HD22	1.31	1.10
37:BP:137:TYR:OH	46:BY:99:TYR:HE2	1.28	1.10
32:BK:103:ARG:HH12	32:BK:104:GLN:NE2	1.49	1.10
44:BW:27:THR:HB	44:BW:80:ILE:HD12	1.34	1.10
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.13	1.10
4:AE:185:ILE:HG22	4:AE:199:TYR:HB2	1.22	1.10
10:AK:39:LEU:HB3	10:AK:45:ILE:HG21	1.30	1.10
14:AO:59:ARG:HA	14:AO:64:TYR:O	1.51	1.10
24:BA:1996:C:H6	24:BA:1996:C:C5'	1.64	1.10
27:BD:131:LEU:HG	27:BD:132:PRO:HD2	1.31	1.10
50:B3:6:HIS:NE2	50:B3:55:ARG:HD3	1.67	1.09
24:BA:1813:G:C4'	27:BD:46:GLN:HB3	1.81	1.09
27:BD:33:LEU:HD11	27:BD:61:LEU:HD11	1.19	1.09
2:AC:56:C:O2'	30:BG:82:LEU:HA	1.52	1.09
35:BN:71:ARG:HG3	35:BN:72:PRO:HD3	1.31	1.09
2:AC:37:A:H2'	2:AC:38:A:H8	1.11	1.09
9:AJ:10:ARG:HH11	9:AJ:10:ARG:HB3	1.01	1.09
10:AK:38:ILE:HG13	10:AK:118:VAL:HG11	1.10	1.09
11:AL:19:LEU:HD21	11:AL:59:PHE:HB3	1.12	1.09
14:AO:88:GLY:H	14:AO:98:TYR:HA	1.08	1.09
24:BA:71:A:H4'	24:BA:72:U:H5''	1.25	1.09
27:BD:181:GLU:OE2	27:BD:272:ALA:HA	1.52	1.09
4:AE:115:LEU:HD13	4:AE:145:LEU:HB3	1.15	1.09
4:AE:88:ALA:HB2	4:AE:219:VAL:HG22	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:222:ILE:HD13	4:AE:226:ARG:HH21	1.06	1.09
24:BA:1790:C:H5''	24:BA:1828:G:H1	0.95	1.09
27:BD:51:VAL:HG12	27:BD:52:ARG:HD2	1.25	1.09
46:BY:127:LYS:HD2	46:BY:164:ALA:H	0.94	1.09
1:AA:599:C:H4'	10:AK:130:GLY:HA3	1.12	1.09
24:BA:2453:A:H4'	24:BA:2572:A:O2'	1.51	1.09
24:BA:2808:U:H3'	24:BA:2809:A:H5''	1.31	1.09
27:BD:175:LEU:O	27:BD:182:LEU:HA	1.53	1.09
27:BD:24:ILE:HG22	27:BD:25:THR:H	1.17	1.09
1:AA:926:G:H2'	1:AA:1505:G:H21	0.97	1.09
3:AD:76:A:H2'	24:BA:2432:A:H1'	1.12	1.09
24:BA:2553:G:N2	24:BA:2554:U:C1'	2.15	1.09
27:BD:5:LYS:HD2	27:BD:29:PRO:HA	1.09	1.09
28:BE:13:ARG:HG3	28:BE:22:PRO:HD3	1.19	1.09
39:BR:74:ALA:HB1	39:BR:108:GLY:HA3	1.10	1.09
40:BS:54:ARG:HG2	40:BS:100:TYR:HB2	1.11	1.09
6:AG:147:ALA:HB2	6:AG:182:LYS:HA	1.34	1.09
49:B2:3:ARG:HH12	49:B2:59:VAL:HB	1.12	1.09
33:BL:10:LEU:HD22	33:BL:57:ILE:HG12	1.30	1.09
37:BP:66:ILE:HG22	37:BP:67:ARG:H	1.16	1.09
37:BP:41:TRP:HB3	37:BP:94:VAL:HG21	1.32	1.09
24:BA:1649:G:H21	38:BQ:107:ASP:HB2	1.12	1.09
3:AD:56:C:H3'	3:AD:57:G:C8	1.87	1.09
28:BE:127:ASP:HB2	28:BE:135:HIS:HA	1.19	1.09
2:AC:34:C:H2'	2:AC:35:A:H5''	1.18	1.09
1:AA:1047:G:H5''	16:AQ:4:LYS:HD3	1.13	1.09
24:BA:1475:G:H21	24:BA:1476:C:H5''	1.10	1.09
24:BA:1789:A:O5'	27:BD:222:ARG:HG2	1.52	1.09
30:BG:68:PRO:HB3	30:BG:72:ARG:HH22	1.16	1.09
36:BO:45:LEU:HD13	54:B7:59:LYS:NZ	1.64	1.09
40:BS:30:VAL:HG22	40:BS:32:TYR:CE2	1.87	1.09
4:AE:161:ALA:HA	4:AE:183:PRO:HB2	1.34	1.09
5:AF:20:SER:HB2	5:AF:40:ARG:HH22	1.15	1.09
51:B4:10:LYS:HE3	51:B4:15:ARG:HD3	1.30	1.09
55:B8:2:LYS:HG2	55:B8:35:ARG:HB2	1.32	1.09
24:BA:287:C:H2'	24:BA:288:C:H5	1.09	1.09
31:BH:147:ASN:O	31:BH:151:ILE:HG22	1.52	1.09
43:BV:42:ARG:HD2	43:BV:46:PHE:HE1	1.05	1.09
1:AA:628:G:H2'	1:AA:629:G:H8	1.18	1.09
12:AM:6:ILE:HD11	12:AM:72:VAL:HB	1.29	1.09
13:AN:23:ALA:CB	13:AN:88:GLY:HA2	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2787:C:H1'	28:BE:61:ARG:HD2	1.33	1.09
29:BF:157:VAL:HG12	29:BF:176:LEU:HD23	1.28	1.09
24:BA:1063:G:H5'	33:BL:87:GLY:HA3	1.23	1.09
34:BM:109:LYS:HG2	34:BM:112:LEU:HB2	1.25	1.09
34:BM:104:LYS:HA	34:BM:117:PHE:HZ	1.11	1.09
1:AA:263:A:H2'	1:AA:264:U:H5''	1.09	1.09
5:AF:14:ILE:HG21	5:AF:179:ARG:HA	1.18	1.09
14:AO:84:LEU:HB3	14:AO:104:VAL:HG11	1.30	1.09
14:AO:93:LEU:HD12	14:AO:96:VAL:HG21	1.32	1.09
49:B2:3:ARG:NH1	49:B2:3:ARG:HB3	1.67	1.09
24:BA:1203:G:H2'	24:BA:1203:G:N3	1.60	1.09
28:BE:178:GLU:HB2	28:BE:179:GLU:OE2	1.53	1.09
29:BF:9:ILE:HG12	29:BF:124:LEU:HB2	1.16	1.09
44:BW:92:LEU:CD1	44:BW:92:LEU:H	1.65	1.09
1:AA:1277:C:H4'	1:AA:1282:C:H1'	1.35	1.08
24:BA:2623:G:N2	51:B4:22:HIS:HE1	1.49	1.08
24:BA:1309:G:H2'	24:BA:1310:G:H5'	1.35	1.08
24:BA:1637:A:H4'	24:BA:2711:A:O2'	1.51	1.08
24:BA:618:G:H2'	24:BA:618(A):C:C6	1.88	1.08
35:BN:96:THR:HG22	35:BN:97:ARG:N	1.66	1.08
39:BR:89:ARG:CG	39:BR:90:GLY:H	1.66	1.08
1:AA:1417:G:H2'	1:AA:1482:G:N2	1.66	1.08
4:AE:21:ARG:N	4:AE:21:ARG:HD2	1.67	1.08
6:AG:12:CYS:HA	6:AG:19:LEU:HB2	1.17	1.08
19:AT:10:VAL:HG21	19:AT:55:ASP:HB2	1.31	1.08
50:B3:28:LYS:HB3	50:B3:29:PRO:HD2	1.35	1.08
24:BA:30:G:H2'	24:BA:31:C:C6	1.88	1.08
24:BA:729:G:H2'	24:BA:730:C:H4'	1.27	1.08
24:BA:806:C:H2'	24:BA:807:U:H6	1.10	1.08
28:BE:137:HIS:HB2	28:BE:138:PRO:HD2	1.29	1.08
34:BM:35:ARG:HD3	34:BM:38:HIS:HB3	1.16	1.08
37:BP:42:ILE:HD12	37:BP:47:ILE:HG13	1.20	1.08
44:BW:12:VAL:HB	44:BW:27:THR:O	1.50	1.08
18:AS:57:ARG:HA	18:AS:60:LEU:HD12	1.33	1.08
53:B6:41:ARG:HB2	53:B6:41:ARG:NH1	1.66	1.08
30:BG:36:LYS:HE2	30:BG:38:VAL:HG13	1.19	1.08
35:BN:7:TYR:HA	35:BN:18:LYS:HE3	1.22	1.08
37:BP:23:GLY:HA3	37:BP:101:ARG:HH21	0.93	1.08
46:BY:158:PRO:HB2	46:BY:159:PRO:HD2	1.28	1.08
24:BA:1805:U:H1'	27:BD:51:VAL:HG11	1.26	1.08
29:BF:119:ARG:HH21	29:BF:119:ARG:HB2	1.01	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:59:VAL:HA	43:BV:63:ASP:HA	1.26	1.08
3:AD:3:C:H2'	3:AD:4:G:H8	1.14	1.08
4:AE:101:MET:HA	4:AE:108:ILE:HG13	1.08	1.08
48:B1:16:LEU:HD21	48:B1:59:LEU:HB2	1.28	1.08
55:B8:1:MET:H3	55:B8:33:LYS:HB2	1.18	1.08
24:BA:296:C:H2'	24:BA:297:C:H6	1.13	1.08
24:BA:786:C:C2'	24:BA:787:U:H5'	1.83	1.08
27:BD:147:LEU:HG	27:BD:154:LYS:HD2	1.13	1.08
30:BG:120:LEU:HD22	30:BG:181:ARG:HB2	1.13	1.08
31:BH:60:ARG:HH21	31:BH:64:LEU:HD11	1.18	1.08
24:BA:636:G:H22	36:BO:75:ILE:HD12	1.04	1.08
6:AG:19:LEU:H	6:AG:33:MET:HE1	1.15	1.08
6:AG:57:ARG:HH22	7:AH:107:ARG:HD3	1.14	1.08
24:BA:364:C:H2'	24:BA:365:C:C6	1.87	1.08
24:BA:775:G:N2	24:BA:787:U:C2'	2.16	1.08
35:BN:47:ILE:HD11	35:BN:50:GLY:HA3	1.29	1.08
39:BR:97:ARG:O	39:BR:100:ALA:HB3	1.50	1.08
44:BW:92:LEU:H	44:BW:92:LEU:HD12	0.94	1.08
46:BY:95:PRO:CG	46:BY:131:ARG:H	1.65	1.08
26:BC:14:VAL:HG21	26:BC:220:PRO:HB3	1.30	1.08
24:BA:1582:C:H3'	24:BA:1583:A:H5''	1.10	1.08
5:AF:126:ARG:HB3	5:AF:128:PHE:HE1	1.00	1.08
52:B5:19:ARG:HH12	52:B5:41:PRO:HG3	1.18	1.08
24:BA:1841:U:H2'	24:BA:1842:G:C8	1.87	1.08
24:BA:292:C:H3'	24:BA:293:U:C4	1.87	1.08
24:BA:979:G:H3'	24:BA:980:A:H5''	1.30	1.08
29:BF:155:LEU:HA	29:BF:174:VAL:CG2	1.83	1.08
35:BN:99:PHE:HA	40:BS:74:ARG:HH12	0.97	1.08
42:BU:3:ALA:HA	42:BU:44:LYS:NZ	1.67	1.08
1:AA:80:G:H2'	1:AA:81:G:O4'	1.54	1.08
5:AF:116:VAL:O	5:AF:119:ARG:HB3	1.54	1.08
11:AL:17:VAL:HA	11:AL:63:ILE:HG23	1.30	1.08
24:BA:29:U:H2'	24:BA:30:G:C8	1.88	1.08
24:BA:686:G:N7	53:B6:12:ARG:HD2	1.69	1.08
40:BS:30:VAL:HG13	40:BS:32:TYR:OH	1.54	1.08
42:BU:62:LEU:CD1	42:BU:96:ILE:HB	1.83	1.08
26:BC:160:ARG:HD3	26:BC:161:ILE:H	1.07	1.08
26:BC:86:ALA:HA	26:BC:150:GLY:HA2	1.27	1.08
6:AG:20:TYR:CA	6:AG:33:MET:SD	2.41	1.08
12:AM:45:ARG:HH11	12:AM:45:ARG:HB3	0.99	1.08
49:B2:13:ILE:HG23	49:B2:14:GLY:H	1.12	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2239:G:H5'	24:BA:2240:C:OP2	1.52	1.08
27:BD:246:PRO:CD	27:BD:250:TRP:HB2	1.84	1.08
30:BG:139:LEU:HD22	30:BG:142:PRO:HB3	1.21	1.08
35:BN:16:ALA:HB1	35:BN:45:GLU:HB2	1.31	1.08
35:BN:52:VAL:O	35:BN:53:LYS:HG2	1.53	1.08
41:BT:53:ARG:HB2	41:BT:53:ARG:HH11	1.07	1.08
4:AE:224:GLN:HG2	4:AE:229:VAL:HG22	1.25	1.08
10:AK:22:GLU:HA	10:AK:63:LEU:HD21	1.33	1.08
12:AM:24:VAL:HA	12:AM:34:VAL:HG21	1.36	1.08
15:AP:59:TYR:CE2	15:AP:60:VAL:HG23	1.87	1.08
49:B2:6:VAL:HG22	49:B2:56:VAL:HA	1.08	1.08
27:BD:246:PRO:HD2	27:BD:250:TRP:HB2	1.18	1.08
28:BE:59:VAL:HB	28:BE:62:PRO:HG2	1.36	1.08
36:BO:81:GLN:O	36:BO:86:LYS:HG2	1.53	1.08
1:AA:570:G:H5'	1:AA:820:U:H1'	1.34	1.07
21:AV:30:LEU:HD11	21:AV:50:ALA:HB2	1.27	1.07
24:BA:1568:G:OP2	27:BD:61:LEU:HD12	1.51	1.07
28:BE:8:LYS:HA	28:BE:8:LYS:HE2	1.15	1.07
38:BQ:59:ASP:O	38:BQ:63:ARG:HG3	1.52	1.07
7:AH:102:ALA:HB1	7:AH:120:THR:HG22	1.35	1.07
7:AH:11:ILE:HG22	7:AH:12:LEU:H	0.93	1.07
9:AJ:111:ARG:HD2	9:AJ:123:GLU:HB2	1.33	1.07
11:AL:70:LYS:H	11:AL:70:LYS:HD2	1.12	1.07
19:AT:5:VAL:HG22	19:AT:60:ILE:HA	1.09	1.07
24:BA:1813:G:O2'	27:BD:46:GLN:HG2	1.54	1.07
24:BA:228:A:H2'	24:BA:229:A:H4'	1.11	1.07
24:BA:2312:U:H4'	30:BG:43:LEU:HD13	1.10	1.07
30:BG:75:LYS:HB3	30:BG:84:LYS:HB2	1.28	1.07
34:BM:85:ILE:HG23	34:BM:89:LYS:HD3	1.34	1.07
41:BT:88:ILE:HG12	42:BU:52:VAL:HG22	1.35	1.07
6:AG:168:ARG:HD2	6:AG:168:ARG:H	1.12	1.07
4:AE:21:ARG:CD	4:AE:21:ARG:H	1.66	1.07
7:AH:94:ALA:HB2	7:AH:119:LEU:HD21	1.14	1.07
19:AT:59:ILE:HD11	19:AT:71:PHE:HB3	1.36	1.07
21:AV:36:ARG:HE	21:AV:51:VAL:CG1	1.67	1.07
24:BA:179:G:H5'	53:B6:32:LYS:NZ	1.67	1.07
24:BA:476:G:H22	24:BA:478:A:H3'	1.08	1.07
29:BF:164:ARG:HB2	29:BF:177:ALA:HB2	1.12	1.07
31:BH:18:GLU:OE2	31:BH:25:LYS:HB3	1.54	1.07
24:BA:1665:A:H5''	35:BN:65:THR:HG22	1.33	1.07
40:BS:64:ARG:HD3	40:BS:65:LYS:H	0.97	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:19:LYS:NZ	47:BZ:41:ARG:HE	1.50	1.07
7:AH:9:LYS:HB2	7:AH:33:VAL:HB	1.34	1.07
9:AJ:115:ARG:HB2	9:AJ:118:VAL:HG23	1.34	1.07
11:AL:50:LEU:HD11	11:AL:56:LEU:HA	1.35	1.07
14:AO:85:ILE:HD11	14:AO:98:TYR:HB3	1.31	1.07
1:AA:1202:G:H1'	16:AQ:29:ARG:HD2	1.24	1.07
24:BA:1178:C:H2'	24:BA:1179:C:C6	1.89	1.07
24:BA:2756:U:O2'	24:BA:2757:A:H5''	1.55	1.07
24:BA:476:G:N2	24:BA:478:A:H3'	1.70	1.07
26:BC:111:ASP:HA	26:BC:136:LEU:HD22	1.27	1.07
4:AE:7:VAL:HG23	4:AE:8:LYS:H	1.09	1.07
10:AK:82:HIS:O	10:AK:137:VAL:HA	1.54	1.07
15:AP:3:ARG:HH12	30:BG:113:ARG:HG3	1.14	1.07
22:AW:26:ASN:HD22	22:AW:27:LYS:N	1.52	1.07
24:BA:142:G:H4'	44:BW:35:THR:HG21	1.08	1.07
24:BA:1996:C:H6	24:BA:1996:C:H5''	1.11	1.07
24:BA:2226:C:H2'	24:BA:2227:A:O4'	1.54	1.07
31:BH:96:ALA:HB3	31:BH:128:PRO:CB	1.83	1.07
35:BN:3:GLN:HE22	35:BN:33:ALA:HB3	1.15	1.07
41:BT:111:GLU:O	41:BT:114:LYS:HG2	1.51	1.07
24:BA:858:U:O2'	24:BA:2268:A:H2'	1.54	1.07
29:BF:130:ALA:HB3	29:BF:142:TRP:HB2	1.27	1.07
30:BG:61:ALA:HB2	30:BG:67:LYS:HB3	1.10	1.07
2:AC:74:C:H5''	24:BA:2602:A:H2'	1.32	1.07
24:BA:2805:G:H3'	24:BA:2807:G:H5''	1.33	1.07
24:BA:728:G:H4'	27:BD:16:MET:SD	1.94	1.07
24:BA:2596:U:H2'	27:BD:242:ARG:NH1	1.68	1.07
35:BN:96:THR:CG2	35:BN:97:ARG:H	1.66	1.07
1:AA:761:G:H5'	19:AT:102:GLY:HA3	1.34	1.07
17:AR:71:GLN:HG3	17:AR:75:PRO:HB3	1.37	1.07
24:BA:1083:U:H1'	24:BA:1085:A:N7	1.70	1.07
24:BA:1520:U:C2'	24:BA:1521:G:H5''	1.83	1.07
24:BA:2620:C:OP1	28:BE:153:GLY:HA2	1.54	1.07
24:BA:974:G:OP1	24:BA:974(A):C:OP2	1.72	1.07
37:BP:28:ALA:HB2	37:BP:134:ARG:HB3	1.29	1.07
39:BR:48:LEU:HD22	39:BR:49:VAL:HG12	1.37	1.07
26:BC:59:ARG:HD3	26:BC:164:ARG:HG2	1.11	1.07
3:AD:8:U:H3	3:AD:14:A:N6	1.53	1.07
6:AG:148:VAL:HB	6:AG:181:MET:HE3	1.37	1.07
11:AL:10:ARG:HA	11:AL:104:ARG:NE	1.70	1.07
22:AW:50:GLU:H	22:AW:99:LEU:HD12	1.14	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:59:LEU:HD23	54:B7:25:MET:HE2	1.27	1.07
38:BQ:3:HIS:O	38:BQ:4:LEU:HG	1.55	1.07
46:BY:57:ILE:HG12	46:BY:70:LEU:HB3	1.14	1.07
1:AA:888:G:N2	1:AA:909:A:H62	1.53	1.07
11:AL:19:LEU:HD23	11:AL:60:ASP:O	1.55	1.07
24:BA:775:G:H2'	24:BA:794:G:N7	1.69	1.07
24:BA:861:A:N6	24:BA:917:A:N6	2.01	1.07
33:BL:52:ILE:HD11	33:BL:80:LYS:HE3	1.35	1.07
24:BA:2132:U:H3'	24:BA:2133:G:C5'	1.82	1.07
6:AG:141:ARG:HD3	6:AG:142:PRO:HD2	1.11	1.06
6:AG:20:TYR:HB2	6:AG:27:TYR:HA	1.32	1.06
5:AF:30:ARG:HB3	16:AQ:36:PHE:O	1.55	1.06
24:BA:1598:C:H5''	44:BW:36:LYS:HB3	1.37	1.06
30:BG:113:ARG:HG2	30:BG:139:LEU:HA	1.36	1.06
35:BN:64:ARG:NH1	35:BN:68:GLU:N	2.00	1.06
35:BN:94:ARG:HG3	35:BN:95:GLY:N	1.67	1.06
24:BA:871:U:H5''	37:BP:9:TYR:HE2	1.09	1.06
41:BT:70:ARG:HG2	41:BT:75:ASN:HA	1.17	1.06
45:BX:2:ARG:HD2	45:BX:3:VAL:HG23	1.32	1.06
10:AK:26:VAL:HG22	10:AK:27:PRO:HD2	1.36	1.06
52:B5:20:ASN:HD22	52:B5:41:PRO:CB	1.68	1.06
24:BA:1935:G:H4'	24:BA:1937:A:C2	1.88	1.06
24:BA:2078:C:H2'	24:BA:2079:U:C6	1.89	1.06
24:BA:2327:A:H2'	24:BA:2328:A:H8	1.13	1.06
24:BA:2661:G:H2'	24:BA:2662:A:H8	1.04	1.06
24:BA:632:A:H2'	24:BA:633:A:H8	0.92	1.06
27:BD:6:PHE:O	27:BD:27:THR:HA	1.51	1.06
28:BE:37:ARG:HG3	28:BE:39:PRO:HD2	1.31	1.06
31:BH:59:ARG:HA	31:BH:62:LYS:HD3	1.29	1.06
45:BX:2:ARG:HH21	45:BX:4:LYS:HB2	1.14	1.06
9:AJ:29:LYS:HD2	9:AJ:101:LEU:HD22	1.37	1.06
10:AK:6:ILE:HG23	10:AK:7:ALA:H	1.19	1.06
14:AO:86:ARG:HH12	14:AO:119:LYS:HD3	1.11	1.06
52:B5:14:THR:HB	52:B5:51:GLU:HG2	1.12	1.06
24:BA:623:G:H3'	36:BO:105:LEU:CD2	1.84	1.06
3:AD:37:A:H2'	3:AD:38:A:H8	1.19	1.06
22:AW:11:SER:HA	22:AW:13:LEU:HD11	1.32	1.06
24:BA:1405:U:H2'	24:BA:1406:U:C6	1.91	1.06
30:BG:54:GLU:O	30:BG:57:ALA:HB3	1.54	1.06
34:BM:67:LEU:HA	34:BM:70:LYS:HZ3	1.20	1.06
1:AA:619:U:H3	6:AG:135:LEU:HD21	1.19	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:140:ASP:HA	9:AJ:143:ARG:CZ	1.85	1.06
24:BA:2742:C:H5''	55:B8:35:ARG:HH12	1.02	1.06
24:BA:1965:C:H3'	24:BA:1966:A:C8	1.89	1.06
24:BA:861:A:C2'	24:BA:862:G:H5'	1.85	1.06
24:BA:881:G:H22	24:BA:896:A:N6	1.53	1.06
37:BP:34:LEU:HD12	37:BP:67:ARG:HH12	0.93	1.06
42:BU:62:LEU:HD12	42:BU:96:ILE:CB	1.84	1.06
4:AE:136:VAL:HA	4:AE:139:LYS:HZ2	1.13	1.06
51:B4:51:TYR:HB3	51:B4:55:ARG:HA	1.38	1.06
47:BZ:47:PRO:HG2	47:BZ:53:MET:HB2	1.33	1.06
26:BC:131:LEU:HB3	26:BC:136:LEU:HB2	1.29	1.06
26:BC:150:GLY:O	26:BC:154:ARG:HB2	1.53	1.06
1:AA:1005:A:H3'	1:AA:1006:C:H6	1.20	1.06
1:AA:389:A:H2'	1:AA:390:C:H5'	1.38	1.06
1:AA:902:G:O2'	1:AA:903:G:H5'	1.55	1.06
13:AN:23:ALA:HB3	13:AN:88:GLY:HA2	1.35	1.06
24:BA:469:G:N2	53:B6:40:TRP:HZ2	1.53	1.06
24:BA:1863:G:H2'	24:BA:1864:U:C6	1.91	1.06
24:BA:2327:A:H2'	24:BA:2328:A:C8	1.89	1.06
24:BA:2637:U:H5''	28:BE:81:ILE:HD11	1.09	1.06
24:BA:662:G:O3'	36:BO:18:ARG:HB3	1.53	1.06
40:BS:54:ARG:O	40:BS:64:ARG:HB2	1.56	1.06
40:BS:72:VAL:HG12	40:BS:73:GLU:H	1.18	1.06
46:BY:39:VAL:HG13	46:BY:44:PHE:CD2	1.90	1.06
20:AU:66:LEU:HD12	20:AU:67:ALA:N	1.69	1.06
33:BL:52:ILE:HG13	33:BL:76:TYR:HB3	1.24	1.06
24:BA:662:G:H5'	36:BO:17:LYS:H	1.20	1.06
46:BY:95:PRO:HG2	46:BY:131:ARG:HG2	1.37	1.06
1:AA:939:G:H5''	9:AJ:102:ARG:HH12	1.14	1.06
21:AV:5:LEU:CD1	21:AV:9:VAL:HG13	1.86	1.06
52:B5:19:ARG:NH1	52:B5:41:PRO:HG3	1.70	1.06
24:BA:1203:G:O6	24:BA:1240:U:C2	2.08	1.06
24:BA:386:G:H4'	24:BA:387:U:C5	1.90	1.06
31:BH:45:VAL:HG22	31:BH:50:VAL:HG12	1.36	1.06
34:BM:15:LEU:HD21	34:BM:137:LYS:HA	1.37	1.06
37:BP:34:LEU:HA	37:BP:131:ILE:HG12	1.33	1.06
42:BU:40:LEU:HD23	42:BU:51:VAL:HG13	1.08	1.06
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.20	1.06
4:AE:155:LEU:CB	4:AE:159:PRO:HG3	1.86	1.06
10:AK:9:MET:HG2	10:AK:13:ILE:HD11	1.10	1.06
54:B7:21:LYS:HZ2	54:B7:21:LYS:HB2	1.19	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1790:C:H5''	24:BA:1828:G:N1	1.71	1.06
24:BA:2076:U:H4'	24:BA:2077:A:OP1	1.56	1.06
35:BN:17:ARG:NH2	35:BN:98:VAL:HG23	1.71	1.06
42:BU:68:LYS:HG2	42:BU:95:LEU:HD21	1.37	1.06
3:AD:22:G:H2'	3:AD:23:A:C8	1.89	1.06
3:AD:63:G:H2'	3:AD:64:C:C6	1.89	1.06
6:AG:156:GLU:O	6:AG:159:ARG:HB3	1.53	1.05
8:AI:26:ILE:HG22	8:AI:30:LEU:HD11	1.33	1.05
11:AL:10:ARG:HA	11:AL:104:ARG:HE	0.93	1.05
17:AR:62:GLN:HA	17:AR:65:ARG:NH2	1.71	1.05
24:BA:1448:G:H4'	24:BA:1543:A:N6	1.70	1.05
24:BA:2491:U:H6	24:BA:2491:U:H3'	0.89	1.05
24:BA:386:G:H4'	24:BA:387:U:C6	1.90	1.05
24:BA:503:A:H4'	24:BA:504:U:C5'	1.84	1.05
24:BA:858:U:C5	24:BA:859:G:N2	2.24	1.05
24:BA:2053:G:H4'	28:BE:145:LYS:NZ	1.71	1.05
28:BE:36:ARG:HD3	28:BE:41:LYS:HZ1	1.20	1.05
29:BF:174:VAL:HG11	29:BF:189:THR:HG22	1.32	1.05
35:BN:10:VAL:H	35:BN:17:ARG:HG2	1.19	1.05
1:AA:1417:G:H2'	1:AA:1482:G:H22	1.14	1.05
1:AA:332:G:O2'	1:AA:333:G:H5'	1.56	1.05
10:AK:109:ILE:O	10:AK:136:GLU:HB2	1.56	1.05
24:BA:2333:A:H1'	24:BA:2335:A:C4	1.91	1.05
29:BF:168:ARG:HH21	29:BF:168:ARG:HB2	1.21	1.05
35:BN:66:LYS:HE3	35:BN:67:LYS:NZ	1.69	1.05
41:BT:55:ARG:HH11	41:BT:55:ARG:HG2	1.16	1.05
45:BX:81:LYS:HG2	45:BX:96:ILE:HG23	1.38	1.05
24:BA:2124:G:H2'	26:BC:217:THR:HG23	1.36	1.05
26:BC:10:LEU:HD21	26:BC:220:PRO:HD3	1.34	1.05
4:AE:84:GLU:HG2	4:AE:234:PRO:HD2	1.35	1.05
8:AI:97:PHE:HD2	20:AU:31:LEU:HD13	1.17	1.05
13:AN:61:ALA:HB1	13:AN:94:ALA:HB2	1.06	1.05
24:BA:1024:G:H5'	24:BA:1025:G:H5''	1.08	1.05
24:BA:1156:A:H5'	24:BA:1157:G:N7	1.70	1.05
24:BA:1394:U:H4'	24:BA:1603:A:H4'	1.12	1.05
24:BA:1956:U:H2'	24:BA:1957:C:H6	1.12	1.05
24:BA:2075:U:H2'	24:BA:2076:U:C5'	1.86	1.05
24:BA:594:U:H2'	24:BA:595:C:C6	1.90	1.05
47:BZ:82:ARG:HD2	47:BZ:83:PRO:HD2	1.37	1.05
1:AA:737:A:H3'	8:AI:92:LYS:HZ1	1.19	1.05
13:AN:111:ASP:OD2	13:AN:113:PRO:HD3	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:582:U:H5'	17:AR:64:ARG:NH2	1.71	1.05
21:AV:40:ILE:HB	21:AV:67:VAL:O	1.54	1.05
53:B6:34:ARG:HH22	53:B6:42:LEU:HA	1.19	1.05
24:BA:1784:A:O2'	24:BA:1785:A:OP2	1.75	1.05
24:BA:270(Z):U:H3'	24:BA:271(A):C:C5'	1.85	1.05
39:BR:11:LYS:O	39:BR:14:VAL:HB	1.57	1.05
40:BS:64:ARG:HD3	40:BS:65:LYS:N	1.70	1.05
46:BY:122:ARG:HH22	46:BY:169:GLU:HG2	1.15	1.05
26:BC:87:GLU:HG3	26:BC:94:VAL:HG21	1.08	1.05
10:AK:64:LYS:HG2	10:AK:79:VAL:HG21	1.26	1.05
14:AO:27:LEU:HD23	14:AO:33:ARG:HH11	1.17	1.05
24:BA:2239:G:H3'	24:BA:2240:C:H5''	1.37	1.05
6:AG:30:LYS:HE2	6:AG:35:ARG:HH11	1.19	1.05
24:BA:68:G:H2'	24:BA:69:C:C6	1.91	1.05
24:BA:714:U:H2'	24:BA:715:G:N7	1.70	1.05
29:BF:139:PHE:CD2	29:BF:166:ALA:HB3	1.92	1.05
30:BG:92:VAL:HG13	30:BG:94:LEU:HD13	1.37	1.05
31:BH:35:VAL:HG11	31:BH:72:ILE:HA	1.37	1.05
36:BO:15:ARG:CZ	36:BO:16:ARG:H	1.69	1.05
39:BR:30:ARG:HH21	39:BR:91:PRO:HB2	0.99	1.05
24:BA:997:G:OP1	41:BT:92:ARG:HD2	1.55	1.05
24:BA:2195:C:O2'	24:BA:2196:C:H5'	1.55	1.05
1:AA:1152:A:H5''	12:AM:13:HIS:NE2	1.71	1.05
1:AA:1443:G:C4'	1:AA:1446:A:H5'	1.85	1.05
13:AN:57:THR:HG23	13:AN:60:ALA:H	1.21	1.05
24:BA:2447:G:H3'	24:BA:2499:C:P	1.97	1.05
24:BA:270(C):C:H2'	24:BA:270(D):C:C6	1.92	1.05
24:BA:858:U:H5	24:BA:859:G:N2	1.52	1.05
24:BA:2406:U:C4	36:BO:65:ARG:HB3	1.91	1.05
36:BO:74:GLU:HB2	36:BO:107:LYS:HZ2	1.16	1.05
44:BW:44:GLU:HG3	44:BW:51:VAL:HG23	1.34	1.05
1:AA:1261:A:H61	1:AA:1274:G:H1'	1.18	1.05
6:AG:94:LEU:HA	6:AG:97:LEU:HD12	1.10	1.05
24:BA:1438:U:H2'	24:BA:1439:A:H5'	1.38	1.05
27:BD:5:LYS:HE3	27:BD:81:ALA:HB1	1.11	1.05
27:BD:85:ASP:HB2	27:BD:87:ASN:ND2	1.72	1.05
30:BG:113:ARG:NE	30:BG:139:LEU:HD23	1.70	1.05
34:BM:74:ARG:HB2	34:BM:82:LEU:HB3	1.28	1.05
24:BA:2132:U:H3'	24:BA:2133:G:H5'	1.38	1.05
1:AA:173:U:H1'	1:AA:197:A:C2	1.92	1.05
13:AN:102:GLY:HA2	13:AN:105:VAL:HG23	1.34	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1513:C:H2'	24:BA:1514:U:H5	1.16	1.05
24:BA:1773:A:N6	24:BA:1829:A:H1'	1.71	1.05
27:BD:63:ARG:CB	27:BD:63:ARG:HH11	1.70	1.05
30:BG:91:ARG:HB2	30:BG:91:ARG:HH21	1.17	1.05
36:BO:27:HIS:NE2	42:BU:83:ARG:HB2	1.71	1.05
43:BV:19:LEU:HB3	51:B4:25:LEU:HD13	1.08	1.05
46:BY:118:GLN:NE2	46:BY:174:VAL:HA	1.72	1.05
1:AA:652:U:O4	1:AA:752:G:H2'	1.56	1.05
49:B2:4:LEU:HD22	49:B2:37:LEU:HD13	1.33	1.05
49:B2:4:LEU:HB3	49:B2:37:LEU:HD22	1.35	1.05
51:B4:40:LYS:HE3	51:B4:44:THR:H	1.12	1.05
24:BA:1203:G:C6	24:BA:1240:U:N3	2.25	1.05
25:BB:30:C:H2'	25:BB:31:C:H5'	1.33	1.05
40:BS:22:PHE:O	40:BS:24:PRO:HD3	1.56	1.05
1:AA:1192:C:H3'	1:AA:1192:C:H6	1.16	1.04
50:B3:13:ARG:HG2	50:B3:14:ILE:H	0.89	1.04
24:BA:1270:C:H5'	24:BA:1271:G:C5'	1.86	1.04
24:BA:270(M):U:C4'	24:BA:270(N):G:H4'	1.85	1.04
28:BE:60:ASN:HA	28:BE:63:LEU:HD12	1.10	1.04
30:BG:47:LYS:HB2	30:BG:72:ARG:HB3	1.06	1.04
40:BS:10:VAL:HG23	40:BS:11:GLU:OE2	1.55	1.04
6:AG:173:TRP:CE2	6:AG:189:PRO:HB3	1.93	1.04
8:AI:3:ARG:HA	8:AI:67:MET:HE1	1.37	1.04
14:AO:41:ARG:NH1	14:AO:41:ARG:HB3	1.70	1.04
24:BA:1056:G:H5'	24:BA:1057:A:H5'	1.38	1.04
24:BA:1996:C:H2'	24:BA:1997:G:C5'	1.87	1.04
24:BA:296:C:H2'	24:BA:297:C:C6	1.91	1.04
24:BA:470:A:C2	24:BA:471:A:H1'	1.92	1.04
27:BD:14:ARG:CZ	27:BD:14:ARG:HA	1.85	1.04
35:BN:10:VAL:HG13	35:BN:11:ALA:H	1.16	1.04
35:BN:97:ARG:NE	35:BN:98:VAL:H	1.54	1.04
1:AA:1443:G:H4'	1:AA:1446:A:C5'	1.86	1.04
1:AA:777:A:H2'	1:AA:778:G:H8	1.19	1.04
4:AE:77:ALA:HB2	4:AE:211:ILE:HD13	1.35	1.04
4:AE:82:ARG:HB2	4:AE:94:ASN:ND2	1.73	1.04
17:AR:16:ALA:HB1	17:AR:21:ASP:HB3	1.36	1.04
54:B7:10:ALA:HA	54:B7:60:LEU:HD12	1.35	1.04
24:BA:1204:A:OP2	24:BA:1204:A:O4'	1.73	1.04
24:BA:1423:G:H2'	24:BA:1424:G:H8	1.20	1.04
24:BA:2074:U:H2'	24:BA:2597:G:H21	1.22	1.04
24:BA:783:A:H5''	24:BA:2589:A:OP1	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:945:A:H2'	24:BA:945:A:N3	1.64	1.04
27:BD:85:ASP:HB2	27:BD:87:ASN:HD21	1.19	1.04
42:BU:5:VAL:HG11	42:BU:37:VAL:HG13	1.36	1.04
13:AN:95:ILE:HA	13:AN:98:LEU:HG	1.36	1.04
21:AV:5:LEU:HD12	21:AV:9:VAL:CG1	1.87	1.04
24:BA:1826:G:H2'	24:BA:1827:C:H5'	1.38	1.04
25:BB:71:C:H2'	25:BB:72:G:C5'	1.87	1.04
30:BG:139:LEU:HD22	30:BG:142:PRO:CB	1.87	1.04
34:BM:15:LEU:HD21	34:BM:137:LYS:CA	1.86	1.04
43:BV:16:LYS:H	43:BV:16:LYS:HD3	1.17	1.04
46:BY:118:GLN:HE22	46:BY:174:VAL:HA	1.16	1.04
46:BY:75:ASN:HD22	46:BY:85:HIS:HB3	1.22	1.04
26:BC:211:SER:HB2	26:BC:213:TYR:HE1	1.16	1.04
1:AA:1011:G:H2'	1:AA:1012:U:H5'	1.37	1.04
1:AA:43:C:H5''	18:AS:12:LYS:HB3	1.36	1.04
49:B2:7:LYS:O	49:B2:54:VAL:HG22	1.58	1.04
49:B2:6:VAL:HG13	49:B2:55:ARG:O	1.57	1.04
54:B7:30:ARG:CZ	54:B7:44:LYS:HB2	1.88	1.04
24:BA:1530:G:H2'	24:BA:1531:C:C6	1.93	1.04
28:BE:165:VAL:HG12	28:BE:166:THR:H	1.18	1.04
1:AA:1179:A:H4'	11:AL:103:THR:OG1	1.57	1.04
19:AT:62:SER:HB3	19:AT:72:ARG:HE	1.15	1.04
24:BA:1491:G:O4'	27:BD:99:ASP:HB2	1.57	1.04
24:BA:1746:G:H2'	24:BA:1747:G:C8	1.92	1.04
24:BA:2078:C:H2'	24:BA:2079:U:H6	1.16	1.04
24:BA:26:G:H1	24:BA:27:G:N2	1.55	1.04
27:BD:63:ARG:HB2	27:BD:63:ARG:HH11	1.18	1.04
29:BF:25:PRO:O	29:BF:28:ILE:HG22	1.55	1.04
41:BT:55:ARG:HG3	41:BT:58:ARG:HH21	0.91	1.04
46:BY:102:LEU:HD21	46:BY:137:ILE:HD12	1.37	1.04
46:BY:57:ILE:HG23	46:BY:69:THR:O	1.57	1.04
32:BK:100:ALA:O	32:BK:104:GLN:HB2	1.57	1.04
26:BC:212:VAL:O	26:BC:223:ARG:HG3	1.56	1.04
3:AD:63:G:H2'	3:AD:64:C:H6	1.20	1.04
26:BC:19:ILE:HD12	26:BC:223:ARG:HB3	1.37	1.04
1:AA:553:A:H2'	1:AA:554:C:C6	1.91	1.04
7:AH:87:SER:HB3	7:AH:131:ILE:HG12	1.38	1.04
19:AT:57:VAL:HA	19:AT:77:VAL:HG23	1.31	1.04
55:B8:19:ARG:HB2	55:B8:19:ARG:NH1	1.71	1.04
24:BA:2418:A:H2'	24:BA:2419:U:O4'	1.56	1.04
28:BE:120:TRP:CH2	28:BE:122:PHE:HB2	1.93	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2052:G:H1'	28:BE:149:ARG:C	1.77	1.04
30:BG:57:ALA:HA	30:BG:68:PRO:HD2	1.37	1.04
35:BN:3:GLN:NE2	35:BN:33:ALA:HB3	1.71	1.04
43:BV:90:ARG:NH2	43:BV:90:ARG:H	1.55	1.04
5:AF:3:ASN:CG	5:AF:4:LYS:H	1.61	1.04
5:AF:59:ARG:HE	5:AF:64:VAL:HA	1.16	1.04
7:AH:11:ILE:CG2	7:AH:12:LEU:H	1.69	1.04
17:AR:62:GLN:HE21	17:AR:66:LEU:HD21	1.12	1.04
49:B2:45:GLY:O	49:B2:48:GLU:HG2	1.57	1.04
25:BB:7:G:H4'	39:BR:29:PHE:HE2	1.23	1.04
37:BP:23:GLY:HA3	37:BP:101:ARG:NH2	1.71	1.04
37:BP:81:VAL:HG12	37:BP:82:ARG:H	1.23	1.04
41:BT:91:ASP:OD2	42:BU:10:LYS:HD3	1.55	1.04
46:BY:95:PRO:HB2	46:BY:130:PRO:HA	1.36	1.04
1:AA:1180:A:H2'	1:AA:1181:G:H5'	1.37	1.04
1:AA:817:C:O2'	1:AA:818:G:H5'	1.55	1.04
5:AF:126:ARG:HB3	5:AF:128:PHE:CE1	1.92	1.04
13:AN:58:PRO:O	13:AN:61:ALA:HB3	1.57	1.04
24:BA:1786:A:H4'	24:BA:1938:A:H61	0.88	1.04
24:BA:60:G:H21	24:BA:74:A:H4'	1.22	1.04
24:BA:865:C:H42	24:BA:909:A:N6	1.56	1.04
24:BA:976:C:N4	24:BA:988:A:C2	2.24	1.04
27:BD:208:LYS:HZ2	27:BD:211:ARG:CG	1.69	1.04
29:BF:154:VAL:HG12	29:BF:191:ARG:HB3	1.40	1.04
29:BF:30:PRO:O	29:BF:33:LEU:HG	1.56	1.04
1:AA:1403:C:H1'	1:AA:1500:A:N1	1.72	1.04
5:AF:30:ARG:NH1	5:AF:31:HIS:HB2	1.71	1.04
24:BA:1206:G:H2'	24:BA:1207:C:O4'	1.56	1.04
24:BA:2661:G:H2'	24:BA:2662:A:C8	1.93	1.04
28:BE:36:ARG:O	28:BE:44:TYR:HA	1.56	1.04
46:BY:2:GLU:O	46:BY:60:GLU:HA	1.58	1.04
26:BC:22:ILE:HG21	26:BC:190:ARG:NH1	1.73	1.04
5:AF:38:ARG:HH11	5:AF:38:ARG:HB3	1.22	1.03
54:B7:12:LYS:HG2	54:B7:13:ARG:HH12	1.21	1.03
24:BA:1021:A:H2	24:BA:1122:G:H4'	1.22	1.03
24:BA:1872:A:H2'	24:BA:1878:G:H5'	1.39	1.03
24:BA:242:G:H3'	54:B7:4:MET:SD	1.98	1.03
24:BA:355:G:H2'	24:BA:356:G:C8	1.92	1.03
24:BA:2571:C:O2'	28:BE:146:THR:HA	1.58	1.03
28:BE:147:PRO:HG2	28:BE:149:ARG:HD2	1.37	1.03
33:BL:99:ILE:HG22	33:BL:100:THR:H	1.20	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:16:ILE:HB	34:BM:54:VAL:HB	1.35	1.03
1:AA:1251:A:H2'	1:AA:1252:A:C8	1.93	1.03
1:AA:21:G:H2'	1:AA:22:G:H8	1.23	1.03
14:AO:37:CYS:HA	14:AO:58:VAL:HG22	1.41	1.03
49:B2:6:VAL:HB	49:B2:35:ARG:NE	1.73	1.03
24:BA:270(K):C:H3'	24:BA:270(L):U:H6	1.19	1.03
30:BG:113:ARG:HE	30:BG:139:LEU:HD23	1.16	1.03
32:BK:2:LYS:HD2	32:BK:39:ALA:HB2	1.38	1.03
35:BN:4:PRO:HG2	35:BN:5:GLN:H	1.20	1.03
44:BW:50:LYS:HG3	44:BW:84:ALA:HB3	1.40	1.03
3:AD:62:C:H4'	26:BC:52:ARG:HB3	1.34	1.03
1:AA:123:C:O2'	1:AA:290:C:H1'	1.58	1.03
53:B6:17:GLY:N	53:B6:21:ARG:HH22	1.55	1.03
24:BA:1786:A:H4'	24:BA:1938:A:N6	1.72	1.03
24:BA:2658:C:H2'	24:BA:2659:G:C5'	1.86	1.03
24:BA:297:C:H2'	24:BA:298:G:O4'	1.58	1.03
24:BA:928:G:N7	24:BA:929:G:N3	2.05	1.03
25:BB:68:C:H2'	25:BB:69:G:H8	1.18	1.03
31:BH:28:GLY:HA3	31:BH:79:VAL:HB	1.39	1.03
33:BL:34:ILE:O	33:BL:38:VAL:HB	1.57	1.03
35:BN:16:ALA:HB1	35:BN:45:GLU:CB	1.87	1.03
43:BV:47:VAL:O	43:BV:51:LEU:HD13	1.56	1.03
48:B1:36:ILE:HG23	48:B1:37:GLY:H	1.24	1.03
24:BA:2637:U:H5'	28:BE:43:GLY:HA3	1.34	1.03
24:BA:576:U:H2'	24:BA:577:G:H8	1.21	1.03
28:BE:33:VAL:HG21	28:BE:77:ILE:HD11	1.38	1.03
31:BH:24:VAL:HG13	31:BH:35:VAL:O	1.57	1.03
40:BS:30:VAL:CG2	40:BS:90:GLN:HA	1.88	1.03
24:BA:911:A:H8	24:BA:2264:C:H1'	1.20	1.03
28:BE:22:PRO:HA	28:BE:185:LYS:HA	1.41	1.03
30:BG:26:GLN:NE2	30:BG:31:VAL:HG22	1.74	1.03
32:BK:32:PRO:HG2	32:BK:33:ARG:H	1.14	1.03
6:AG:83:SER:HA	6:AG:89:THR:OG1	1.58	1.03
49:B2:9:VAL:HG13	49:B2:54:VAL:HA	1.37	1.03
24:BA:2528:U:O2'	24:BA:2529:G:H3'	1.59	1.03
42:BU:79:VAL:HG12	42:BU:81:TYR:HD1	1.19	1.03
45:BX:73:ARG:HB3	45:BX:77:PRO:HA	1.37	1.03
11:AL:96:LEU:O	11:AL:100:GLY:HA2	1.58	1.03
1:AA:1180:A:OP1	11:AL:102:LEU:HB2	1.57	1.03
13:AN:104:GLN:HE22	13:AN:106:LYS:HB2	1.22	1.03
54:B7:39:LYS:O	54:B7:42:ARG:HB2	1.58	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1470:G:N2	24:BA:1522:G:H1	1.55	1.03
24:BA:574:C:H41	24:BA:2054:A:H5''	1.20	1.03
24:BA:270(Z):U:H3'	24:BA:271(A):C:H5'	1.40	1.03
27:BD:55:GLY:H	27:BD:219:PRO:CD	1.70	1.03
28:BE:11:MET:O	28:BE:22:PRO:HD2	1.55	1.03
32:BK:7:GLU:HA	32:BK:14:ASP:CG	1.78	1.03
34:BM:100:GLU:O	34:BM:103:VAL:HG22	1.59	1.03
43:BV:25:ARG:NH2	43:BV:74:ALA:H	1.55	1.03
48:B1:19:LEU:HD13	48:B1:20:VAL:N	1.73	1.03
49:B2:9:VAL:HG22	49:B2:53:LEU:C	1.79	1.03
24:BA:2306:C:N4	30:BG:45:GLU:HB2	1.72	1.03
24:BA:2514:U:H2'	24:BA:2515:C:C6	1.94	1.03
24:BA:2521:C:H2'	24:BA:2522:U:H5''	1.06	1.03
24:BA:494:G:H4'	43:BV:6:ILE:O	1.58	1.03
24:BA:624:C:H41	36:BO:104:GLY:HA2	1.21	1.03
24:BA:996:A:H4'	41:BT:93:LYS:HG3	1.37	1.03
29:BF:131:GLY:HA2	29:BF:138:GLU:HG3	1.40	1.03
32:BK:37:VAL:HG12	32:BK:38:LEU:H	1.20	1.03
41:BT:55:ARG:CG	41:BT:58:ARG:HH21	1.70	1.03
43:BV:12:ILE:HG12	43:BV:101:SER:HB2	1.39	1.03
32:BK:114:LEU:HA	32:BK:130:TYR:HB3	1.40	1.03
32:BK:57:ARG:HB3	32:BK:61:ARG:NH2	1.74	1.03
7:AH:114:GLY:O	7:AH:115:VAL:HG13	1.59	1.03
7:AH:43:LEU:HB3	7:AH:136:MET:HE2	1.40	1.03
24:BA:2346:A:H1'	24:BA:2383:G:C8	1.93	1.03
24:BA:270(I):G:C2	24:BA:270(J):G:H1'	1.93	1.03
24:BA:848:G:H2'	24:BA:849:A:C8	1.93	1.03
25:BB:7:G:H4'	39:BR:29:PHE:CE2	1.93	1.03
30:BG:19:LEU:HD12	30:BG:19:LEU:H	1.20	1.03
1:AA:1226:C:H5''	15:AP:103:THR:O	1.59	1.03
1:AA:1245:A:H2'	1:AA:1246:C:C6	1.93	1.03
1:AA:474:G:H5'	18:AS:81:ARG:NE	1.73	1.03
5:AF:87:LEU:HD12	5:AF:101:LEU:HD11	1.35	1.03
24:BA:1087:G:H21	24:BA:1103:A:H2'	1.22	1.03
24:BA:931:G:H8	24:BA:932:G:H1'	1.17	1.03
34:BM:104:LYS:HA	34:BM:117:PHE:CZ	1.94	1.03
36:BO:112:LEU:H	36:BO:128:HIS:CE1	1.77	1.03
32:BK:93:THR:HG22	32:BK:96:ASP:OD1	1.58	1.03
24:BA:270(M):U:H4'	24:BA:270(N):G:C4'	1.89	1.02
28:BE:104:VAL:HG22	28:BE:198:VAL:HA	1.38	1.02
28:BE:98:PRO:HB3	28:BE:174:ASP:HA	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:120:GLY:HA3	31:BH:136:ILE:HG22	1.38	1.02
35:BN:68:GLU:HG3	35:BN:68:GLU:O	1.58	1.02
37:BP:109:VAL:HG11	37:BP:114:ALA:H	1.21	1.02
1:AA:778:G:H2'	1:AA:779:C:H6	1.23	1.02
17:AR:5:LYS:O	17:AR:8:LYS:HB3	1.58	1.02
18:AS:56:ALA:O	18:AS:60:LEU:HG	1.58	1.02
50:B3:46:GLN:HG2	50:B3:47:GLN:H	1.16	1.02
24:BA:1267:U:H2'	24:BA:1268:A:C5'	1.89	1.02
28:BE:36:ARG:HD3	28:BE:41:LYS:NZ	1.72	1.02
37:BP:83:MET:SD	37:BP:83:MET:N	2.28	1.02
37:BP:8:LYS:HE3	37:BP:93:TYR:HB3	1.41	1.02
38:BQ:13:HIS:HB3	38:BQ:16:HIS:CD2	1.94	1.02
39:BR:25:ARG:HA	39:BR:87:PHE:O	1.57	1.02
42:BU:20:LEU:HD13	42:BU:68:LYS:NZ	1.72	1.02
32:BK:94:ALA:HB1	32:BK:114:LEU:HD12	1.38	1.02
32:BK:81:VAL:HG12	32:BK:88:ILE:HG12	1.38	1.02
1:AA:1208:C:H2'	1:AA:1209:C:C6	1.94	1.02
1:AA:1428:A:H2'	1:AA:1429:C:C6	1.94	1.02
7:AH:82:VAL:HG12	7:AH:89:ILE:HG22	1.36	1.02
12:AM:10:GLY:HA3	12:AM:16:LEU:HD21	1.42	1.02
24:BA:931:G:C8	24:BA:932:G:H1'	1.93	1.02
1:AA:91:C:H2'	1:AA:92:G:H8	1.19	1.02
13:AN:86:GLY:HA2	13:AN:112:THR:HG23	1.40	1.02
13:AN:88:GLY:HA3	13:AN:91:ARG:HB2	1.38	1.02
24:BA:1491:G:H2'	24:BA:1492:G:H4'	1.02	1.02
24:BA:270(Q):C:H2'	24:BA:270(R):G:H8	1.20	1.02
24:BA:482:A:N3	24:BA:482:A:H2'	1.71	1.02
24:BA:2683:C:C4'	28:BE:19:ARG:HH12	1.71	1.02
37:BP:25:ASP:HB3	37:BP:102:VAL:H	1.24	1.02
37:BP:77:LYS:CE	37:BP:87:LYS:HG3	1.89	1.02
40:BS:17:THR:HG21	40:BS:20:PRO:HG3	1.39	1.02
40:BS:65:LYS:HG2	40:BS:75:ILE:HB	1.37	1.02
42:BU:6:LYS:CG	42:BU:12:TYR:H	1.72	1.02
17:AR:54:ARG:HA	17:AR:57:LEU:HD22	1.34	1.02
20:AU:18:ARG:HH21	20:AU:21:LYS:HB2	1.22	1.02
24:BA:1051:G:H4'	24:BA:2752:C:H1'	1.37	1.02
25:BB:100:G:H2'	25:BB:101:A:C8	1.95	1.02
28:BE:23:VAL:HG22	28:BE:184:VAL:HG22	1.41	1.02
31:BH:121:ILE:HA	31:BH:134:SER:O	1.60	1.02
31:BH:96:ALA:HA	31:BH:105:LEU:HG	1.38	1.02
36:BO:114:ILE:HG21	36:BO:123:LEU:HD11	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:68:G:H5'	1:AA:171:A:H1'	1.41	1.02
52:B5:9:LEU:HD22	52:B5:27:LYS:HG3	1.41	1.02
24:BA:1770:G:H2'	24:BA:1771:C:C5	1.94	1.02
46:BY:119:GLU:O	46:BY:172:ALA:HB1	1.58	1.02
47:BZ:68:GLU:HB2	47:BZ:80:HIS:O	1.59	1.02
24:BA:2135:A:H4'	24:BA:2136:C:H5	1.12	1.02
10:AK:29:SER:N	10:AK:32:LYS:HZ3	1.58	1.02
11:AL:112:LYS:HE2	11:AL:117:HIS:HA	1.42	1.02
51:B4:55:ARG:O	51:B4:56:LYS:HG2	1.58	1.02
24:BA:624:C:OP2	36:BO:105:LEU:HD23	1.58	1.02
28:BE:13:ARG:CZ	28:BE:20:ALA:HB3	1.88	1.02
35:BN:117:LEU:HD23	35:BN:118:ALA:N	1.75	1.02
36:BO:93:GLY:H	36:BO:112:LEU:HD11	1.19	1.02
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.19	1.02
4:AE:59:GLU:HB3	4:AE:221:LEU:HD21	1.41	1.02
9:AJ:76:ARG:HD3	9:AJ:156:TRP:HE1	1.20	1.02
24:BA:492:A:H2'	24:BA:493:G:O4'	1.58	1.02
28:BE:52:LEU:HA	28:BE:74:PRO:HA	1.38	1.02
35:BN:15:GLY:HA3	35:BN:47:ILE:HB	1.39	1.02
38:BQ:97:VAL:HA	38:BQ:114:VAL:HG22	1.39	1.02
46:BY:4:ARG:HG2	46:BY:5:LEU:H	1.23	1.02
4:AE:91:PRO:HB3	4:AE:152:PHE:HD1	1.23	1.02
1:AA:1349:A:OP2	11:AL:118:LYS:HD2	1.57	1.02
24:BA:1210:A:H1'	24:BA:1212:G:H21	1.22	1.02
24:BA:1264:G:H5''	24:BA:1265:A:H5''	1.42	1.02
24:BA:673:C:H5''	29:BF:81:PRO:CG	1.90	1.02
1:AA:371:G:C2'	1:AA:372:C:H5'	1.89	1.02
50:B3:38:LYS:HG2	50:B3:39:CYS:H	1.21	1.02
24:BA:1259:G:H2'	24:BA:1260:G:H8	1.21	1.02
24:BA:641:C:H2'	24:BA:642:G:H5'	1.38	1.02
37:BP:34:LEU:CD1	37:BP:67:ARG:HH12	1.72	1.02
26:BC:97:GLU:HA	26:BC:100:ILE:HD12	1.39	1.02
1:AA:186(D):C:H2'	1:AA:186(E):C:H6	1.24	1.01
6:AG:22:LYS:HB3	6:AG:26:CYS:HB3	1.37	1.01
11:AL:9:ARG:HD2	11:AL:14:VAL:HG22	1.39	1.01
21:AV:45:VAL:HG22	21:AV:67:VAL:HG21	1.39	1.01
24:BA:1142:U:H3'	24:BA:1142(A):A:N7	1.75	1.01
24:BA:1936:A:H1'	24:BA:1940:U:N3	1.75	1.01
29:BF:201:VAL:HG11	29:BF:205:ARG:HH21	1.25	1.01
45:BX:12:THR:HG22	45:BX:13:VAL:H	1.23	1.01
46:BY:43:GLU:CD	46:BY:43:GLU:H	1.61	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:33:ALA:HA	47:BZ:61:ALA:O	1.59	1.01
12:AM:24:VAL:HG21	12:AM:37:PRO:HD3	1.42	1.01
24:BA:728:G:N1	24:BA:762:U:H3'	1.75	1.01
24:BA:806:C:H2'	24:BA:807:U:C6	1.95	1.01
37:BP:32:TYR:HB2	37:BP:105:GLU:O	1.60	1.01
40:BS:30:VAL:HG23	40:BS:90:GLN:HA	1.41	1.01
40:BS:29:ARG:HA	40:BS:50:ILE:O	1.59	1.01
42:BU:3:ALA:HA	42:BU:44:LYS:HZ2	1.19	1.01
46:BY:7:ALA:HB3	46:BY:36:LYS:O	1.60	1.01
32:BK:125:GLU:HB2	32:BK:143:SER:CA	1.88	1.01
7:AH:51:VAL:HB	7:AH:52:PRO:HD3	1.42	1.01
53:B6:8:ASN:HD21	53:B6:10:ARG:HB2	1.19	1.01
24:BA:1647:G:H4'	24:BA:1648:C:OP1	1.59	1.01
24:BA:2555:U:H3'	24:BA:2555:U:H6	1.21	1.01
24:BA:673:C:H2'	24:BA:674:G:H5'	1.40	1.01
41:BT:93:LYS:H	42:BU:10:LYS:HE2	1.22	1.01
1:AA:1129:C:H5'	1:AA:1130:A:OP1	1.61	1.01
1:AA:901:A:C2	1:AA:902:G:H1'	1.95	1.01
11:AL:85:LEU:HD23	11:AL:96:LEU:HD13	1.43	1.01
12:AM:50:ILE:HB	16:AQ:41:ARG:HE	1.22	1.01
54:B7:44:LYS:HA	54:B7:44:LYS:HZ2	1.21	1.01
24:BA:1190:G:OP2	36:BO:30:THR:HA	1.60	1.01
24:BA:1779:U:O2'	24:BA:1783:A:N6	1.91	1.01
24:BA:1996:C:O2'	28:BE:123:ALA:HB3	1.59	1.01
29:BF:131:GLY:HA2	29:BF:138:GLU:CG	1.89	1.01
35:BN:47:ILE:HD12	35:BN:52:VAL:HG13	1.38	1.01
41:BT:97:ASP:O	41:BT:101:ARG:HG2	1.58	1.01
24:BA:18:C:OP1	41:BT:26:GLY:HA3	1.57	1.01
14:AO:45:PRO:HG3	14:AO:50:SER:HA	1.42	1.01
24:BA:1252:G:H22	41:BT:37:GLU:HG3	1.16	1.01
24:BA:1771:C:C2'	24:BA:1772:G:H5''	1.91	1.01
24:BA:2498:C:O2	24:BA:2498:C:H2'	1.53	1.01
24:BA:987:G:OP2	49:B2:13:ILE:HD13	1.59	1.01
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.60	1.01
1:AA:761:G:C5'	19:AT:102:GLY:HA3	1.90	1.01
24:BA:1203:G:C4	24:BA:1241:A:C8	2.49	1.01
30:BG:22:ARG:NH2	30:BG:22:ARG:HB3	1.73	1.01
30:BG:34:LEU:H	30:BG:34:LEU:HD12	1.24	1.01
26:BC:209:LEU:HD11	26:BC:226:PRO:HG3	1.42	1.01
26:BC:22:ILE:HG23	26:BC:189:ILE:HG21	1.43	1.01
2:AC:74:C:H2'	2:AC:75:C:H5''	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:11:ARG:HD2	5:AF:16:ARG:HH21	1.26	1.01
10:AK:47:GLY:O	10:AK:61:VAL:HG13	1.60	1.01
13:AN:48:ILE:HG23	13:AN:63:LEU:HD13	1.41	1.01
14:AO:35:GLY:O	14:AO:82:VAL:HA	1.60	1.01
24:BA:2023:G:H2'	24:BA:2024:G:C8	1.96	1.01
24:BA:2296:U:H1'	24:BA:2335:A:N6	1.73	1.01
24:BA:2749:A:C2	24:BA:2757:A:N1	2.29	1.01
24:BA:279:C:N4	24:BA:359:A:C4	2.26	1.01
24:BA:2861:G:H2'	24:BA:2862:G:H8	1.25	1.01
24:BA:627:A:H5''	36:BO:75:ILE:CB	1.90	1.01
30:BG:57:ALA:HA	30:BG:68:PRO:CD	1.89	1.01
31:BH:6:ARG:NH1	31:BH:6:ARG:HA	1.76	1.01
34:BM:67:LEU:HA	34:BM:70:LYS:NZ	1.74	1.01
40:BS:45:PHE:CZ	40:BS:87:ASP:HB2	1.95	1.01
40:BS:29:ARG:HG2	40:BS:51:ARG:HG2	1.40	1.01
1:AA:390:C:H2'	1:AA:391:G:H8	1.26	1.01
14:AO:5:PRO:O	14:AO:6:THR:HG23	1.58	1.01
15:AP:57:ARG:O	15:AP:61:GLU:HB2	1.61	1.01
16:AQ:45:ARG:HH11	16:AQ:45:ARG:HB2	1.23	1.01
24:BA:269:U:H3	24:BA:270:A:H62	1.01	1.01
24:BA:763:G:C2'	24:BA:764:A:H5''	1.90	1.01
24:BA:1567:A:H2	27:BD:61:LEU:HD13	1.21	1.01
29:BF:34:TRP:HD1	29:BF:38:ARG:HH11	1.03	1.01
34:BM:127:ASP:H	34:BM:129:PRO:HD2	1.25	1.01
34:BM:15:LEU:HG	34:BM:138:LEU:O	1.60	1.01
35:BN:86:ILE:HG23	35:BN:90:GLN:O	1.61	1.01
24:BA:1312:U:H5	44:BW:62:LYS:HD2	1.24	1.01
46:BY:15:PRO:HB3	46:BY:25:PRO:HB3	1.41	1.01
47:BZ:47:PRO:HG3	47:BZ:59:LEU:HD21	1.43	1.01
1:AA:18:C:H1'	1:AA:1079:G:H21	1.21	1.01
6:AG:199:ASN:CG	6:AG:200:GLU:H	1.62	1.01
1:AA:942:G:N2	11:AL:124:GLN:HE22	1.58	1.01
52:B5:19:ARG:HG3	52:B5:44:ARG:NH1	1.74	1.01
28:BE:101:ARG:NH2	28:BE:171:GLU:HG2	1.74	1.01
31:BH:52:VAL:HG11	31:BH:69:ARG:HB3	1.40	1.01
36:BO:123:LEU:HD12	36:BO:130:PHE:CD1	1.95	1.01
36:BO:38:GLN:C	36:BO:40:SER:H	1.60	1.01
36:BO:46:LYS:HG2	36:BO:50:ARG:HB2	1.41	1.01
37:BP:77:LYS:HE2	37:BP:87:LYS:HG3	1.41	1.01
38:BQ:61:HIS:HA	38:BQ:64:ARG:HD2	1.42	1.01
25:BB:12:C:C6	47:BZ:74:ARG:HB2	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:18:LYS:HG2	6:AG:33:MET:HB3	1.43	1.01
48:B1:44:LYS:O	48:B1:48:LEU:HB2	1.60	1.01
34:BM:57:ALA:HB3	34:BM:124:ALA:HB2	1.42	1.01
34:BM:34:LEU:HB3	34:BM:116:LEU:HD11	1.43	1.01
46:BY:57:ILE:HG12	46:BY:70:LEU:CB	1.90	1.01
3:AD:58:A:H2'	3:AD:61:C:H41	1.21	1.01
26:BC:74:VAL:HG22	26:BC:112:ALA:HB3	1.40	1.01
26:BC:100:ILE:HD11	26:BC:123:VAL:HG22	1.38	1.01
8:AI:4:TYR:CE1	8:AI:72:VAL:HG11	1.96	1.00
54:B7:34:TRP:C	54:B7:36:LYS:H	1.48	1.00
24:BA:220:G:H4'	24:BA:234:C:H4'	1.41	1.00
42:BU:12:TYR:CE1	42:BU:14:VAL:HB	1.94	1.00
43:BV:64:MET:HG3	43:BV:65:LEU:H	1.26	1.00
1:AA:828:A:N1	1:AA:859:A:O4'	1.94	1.00
6:AG:170:VAL:CG2	6:AG:176:LEU:HB3	1.90	1.00
22:AW:75:ASN:H	22:AW:75:ASN:ND2	1.54	1.00
52:B5:27:LYS:HG2	52:B5:29:ASN:HD21	1.24	1.00
24:BA:2583:G:H2'	24:BA:2584:U:O2	1.58	1.00
24:BA:296:C:H6	24:BA:338:G:H21	1.01	1.00
35:BN:77:ILE:HG12	40:BS:65:LYS:HE2	1.41	1.00
36:BO:17:LYS:HA	36:BO:17:LYS:HE3	1.41	1.00
24:BA:627:A:H5''	36:BO:75:ILE:HB	1.42	1.00
40:BS:15:VAL:HG13	40:BS:81:PRO:HB3	1.39	1.00
24:BA:1178:C:H2'	24:BA:1179:C:H6	1.23	1.00
24:BA:1567:A:H4'	24:BA:1568:G:N2	1.76	1.00
24:BA:1711:C:H2'	24:BA:1712:C:C6	1.96	1.00
24:BA:270(A):A:H61	24:BA:270(X):G:H2'	1.24	1.00
24:BA:2841:C:H2'	24:BA:2842:G:H8	1.24	1.00
24:BA:673:C:H4'	29:BF:82:ILE:HD12	1.43	1.00
31:BH:103:LEU:HB2	31:BH:115:VAL:CB	1.90	1.00
31:BH:6:ARG:HA	31:BH:6:ARG:CZ	1.91	1.00
32:BK:32:PRO:CG	32:BK:33:ARG:H	1.73	1.00
35:BN:68:GLU:HA	35:BN:104:ARG:NH1	1.74	1.00
36:BO:95:VAL:O	36:BO:97:PRO:HD2	1.62	1.00
37:BP:44:ALA:HA	37:BP:47:ILE:HD12	1.39	1.00
46:BY:73:GLN:O	46:BY:87:ASP:HB2	1.59	1.00
1:AA:194:C:H2'	1:AA:195:A:H5''	1.39	1.00
1:AA:61:G:H2'	1:AA:62:U:O4'	1.61	1.00
52:B5:11:LEU:HD22	54:B7:35:GLN:HE22	1.25	1.00
24:BA:2492:U:O2	24:BA:2492:U:H2'	1.59	1.00
27:BD:16:MET:O	27:BD:19:ALA:HB3	1.62	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1803:A:C4'	27:BD:257:LEU:HD13	1.91	1.00
28:BE:167:VAL:HG23	28:BE:189:PRO:HB3	1.44	1.00
37:BP:111:GLU:HB3	37:BP:113:GLN:HG3	1.41	1.00
44:BW:50:LYS:HZ2	44:BW:85:PRO:HD2	1.21	1.00
32:BK:79:ILE:HB	32:BK:144:VAL:HG23	1.40	1.00
1:AA:1314:C:H3'	21:AV:6:LYS:HD3	1.43	1.00
24:BA:1072:C:H2'	24:BA:1093:G:O6	1.62	1.00
24:BA:1889:A:H2'	24:BA:1890:A:H8	1.24	1.00
24:BA:2431:U:H2'	24:BA:2432:A:H5''	1.43	1.00
24:BA:26:G:H1	24:BA:27:G:H21	1.07	1.00
24:BA:27:G:C2	24:BA:512:G:H2'	1.95	1.00
31:BH:38:SER:HB3	31:BH:41:MET:HG3	1.43	1.00
39:BR:37:ALA:O	39:BR:51:ALA:HB3	1.61	1.00
45:BX:84:ARG:HG2	45:BX:86:ARG:H	1.22	1.00
1:AA:571:U:H3'	1:AA:572:A:C5'	1.90	1.00
1:AA:594:G:N2	1:AA:596:C:H41	1.58	1.00
4:AE:97:TRP:HZ3	4:AE:172:ILE:HB	1.22	1.00
15:AP:55:ARG:HH21	15:AP:56:LEU:HD21	1.23	1.00
50:B3:66:SER:O	50:B3:69:LYS:HB2	1.61	1.00
24:BA:422:A:H2'	24:BA:422:A:N3	1.74	1.00
24:BA:683:C:N3	24:BA:684:G:N2	2.09	1.00
25:BB:33:G:H2'	25:BB:34:U:C6	1.97	1.00
35:BN:23:ARG:HB2	35:BN:23:ARG:HH11	1.27	1.00
6:AG:58:LEU:HD13	6:AG:59:ARG:HH11	1.26	1.00
52:B5:19:ARG:NH1	52:B5:43:CYS:HB2	1.76	1.00
24:BA:878:A:H2	24:BA:879:G:H3'	1.22	1.00
27:BD:146:GLU:HB2	27:BD:153:ALA:HA	1.43	1.00
28:BE:33:VAL:HG22	28:BE:47:VAL:O	1.60	1.00
41:BT:102:GLU:HB3	41:BT:105:VAL:HB	1.39	1.00
1:AA:1205:U:H4'	5:AF:195:VAL:HG13	1.41	1.00
10:AK:1:MET:HG2	10:AK:2:LEU:H	1.27	1.00
50:B3:56:VAL:HG12	50:B3:57:GLU:H	1.24	1.00
24:BA:1024:G:H5'	24:BA:1025:G:C5'	1.91	1.00
24:BA:973:A:O2'	24:BA:1188:U:H5	1.44	1.00
24:BA:1786:A:C4'	24:BA:1938:A:H61	1.75	1.00
24:BA:963:U:H1'	24:BA:2250:G:H21	1.26	1.00
24:BA:197:A:N6	24:BA:248:G:H22	1.59	1.00
24:BA:270(A):A:H5'	24:BA:270(B):A:OP2	1.61	1.00
35:BN:21:CYS:HA	35:BN:41:ALA:CB	1.90	1.00
37:BP:26:TYR:N	37:BP:102:VAL:HB	1.76	1.00
4:AE:102:LEU:H	4:AE:102:LEU:HD12	1.24	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:111:ARG:NH1	4:AE:111:ARG:HA	1.77	1.00
4:AE:150:SER:HA	4:AE:153:ARG:HB2	1.44	1.00
9:AJ:76:ARG:HD3	9:AJ:156:TRP:NE1	1.74	1.00
17:AR:74:ASP:OD1	17:AR:76:GLU:HB3	1.60	1.00
18:AS:56:ALA:HB1	18:AS:74:LEU:HD11	1.42	1.00
52:B5:16:CYS:SG	52:B5:19:ARG:CZ	2.50	1.00
24:BA:2266:A:H1'	24:BA:2272:U:C4	1.96	1.00
24:BA:2776:A:H4'	24:BA:2777:G:H5''	1.44	1.00
27:BD:225:ALA:HB3	27:BD:231:HIS:CE1	1.97	1.00
27:BD:246:PRO:HD2	27:BD:250:TRP:CB	1.91	1.00
34:BM:67:LEU:H	34:BM:87:LEU:HD21	1.25	1.00
26:BC:10:LEU:HG	26:BC:220:PRO:HG3	1.42	1.00
4:AE:80:ILE:HD12	4:AE:208:ILE:HG12	1.39	1.00
17:AR:34:LEU:HG	17:AR:35:ARG:H	1.25	1.00
49:B2:9:VAL:HG23	49:B2:10:LYS:N	1.75	1.00
24:BA:1557:C:H2'	24:BA:1558:A:H8	1.05	1.00
24:BA:2431:U:C2'	24:BA:2432:A:H5''	1.92	1.00
24:BA:332:A:H4'	24:BA:333:G:OP1	1.62	1.00
28:BE:136:ARG:NH1	28:BE:137:HIS:HA	1.75	1.00
39:BR:3:ARG:CG	39:BR:4:LEU:H	1.75	1.00
40:BS:59:THR:O	40:BS:81:PRO:HG2	1.60	1.00
42:BU:20:LEU:HA	42:BU:95:LEU:HB3	1.43	1.00
46:BY:27:VAL:HG21	46:BY:85:HIS:CE1	1.78	1.00
1:AA:748:C:C6	1:AA:748:C:H3'	1.97	1.00
4:AE:91:PRO:HB3	4:AE:152:PHE:CD1	1.97	0.99
21:AV:5:LEU:HB2	21:AV:9:VAL:HG22	1.44	0.99
55:B8:9:ARG:HA	55:B8:34:GLN:HE22	1.23	0.99
24:BA:270(X):G:H4'	24:BA:272:G:O3'	1.62	0.99
24:BA:1658:C:OP1	28:BE:134:ILE:HD12	1.61	0.99
24:BA:636:G:N2	36:BO:75:ILE:HD12	1.75	0.99
38:BQ:12:ARG:CZ	38:BQ:16:HIS:HB3	1.92	0.99
42:BU:27:ALA:O	42:BU:33:VAL:HG21	1.60	0.99
24:BA:84:A:H5'	45:BX:8:LYS:HE2	1.41	0.99
1:AA:1192:C:C6	1:AA:1192:C:H3'	1.96	0.99
1:AA:38:G:H22	1:AA:397:A:H5'	1.22	0.99
2:AC:14:A:H61	2:AC:21:A:H2	1.05	0.99
5:AF:38:ARG:HB3	5:AF:38:ARG:NH1	1.76	0.99
20:AU:56:THR:O	20:AU:58:LEU:HG	1.60	0.99
50:B3:47:GLN:HA	50:B3:52:THR:OG1	1.62	0.99
24:BA:1930:G:H2'	24:BA:1968:G:O6	1.61	0.99
27:BD:232:PRO:HG2	27:BD:247:ALA:HA	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:100:GLU:H	28:BE:172:VAL:HG21	1.21	0.99
28:BE:4:ILE:N	28:BE:27:LEU:HD22	1.77	0.99
30:BG:55:LYS:HE3	30:BG:152:LEU:HD21	1.42	0.99
43:BV:74:ALA:HB1	43:BV:105:VAL:HA	1.41	0.99
43:BV:16:LYS:CD	43:BV:16:LYS:H	1.75	0.99
24:BA:2178:C:C5'	26:BC:46:LYS:HG2	1.92	0.99
4:AE:103:THR:O	4:AE:104:ASN:HB3	1.58	0.99
7:AH:147:ASP:HA	7:AH:150:ARG:HB2	1.43	0.99
24:BA:1155:A:C2'	24:BA:1156:A:H5''	1.92	0.99
24:BA:1255:U:H5''	24:BA:1256:G:H5''	1.41	0.99
24:BA:1405:U:H2'	24:BA:1406:U:C5	1.96	0.99
24:BA:1956:U:H2'	24:BA:1957:C:C6	1.96	0.99
24:BA:2075:U:H2'	24:BA:2076:U:H5'	1.43	0.99
24:BA:2841:C:H2'	24:BA:2842:G:C8	1.98	0.99
24:BA:449:A:O2'	24:BA:450:G:H5'	1.62	0.99
28:BE:13:ARG:NH1	28:BE:20:ALA:HB3	1.76	0.99
30:BG:111:LEU:HB3	30:BG:112:PRO:CD	1.92	0.99
34:BM:15:LEU:HD11	34:BM:137:LYS:HB3	1.44	0.99
24:BA:2183:C:H2'	24:BA:2184:G:H8	1.25	0.99
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.25	0.99
6:AG:20:TYR:HA	6:AG:33:MET:SD	2.02	0.99
24:BA:1969:A:H4'	24:BA:1970:A:H5'	1.43	0.99
24:BA:2631:G:N2	28:BE:61:ARG:HH12	1.60	0.99
24:BA:674:G:H4'	29:BF:74:ARG:NE	1.76	0.99
24:BA:704:G:H2'	24:BA:726:G:H22	1.16	0.99
27:BD:9:TYR:HA	27:BD:24:ILE:O	1.61	0.99
30:BG:33:ARG:NH1	30:BG:35:GLU:HB2	1.76	0.99
31:BH:43:VAL:HG13	31:BH:51:ARG:O	1.61	0.99
34:BM:26:LEU:O	34:BM:30:ILE:HD12	1.61	0.99
35:BN:10:VAL:H	35:BN:17:ARG:CG	1.75	0.99
42:BU:5:VAL:HA	42:BU:39:LEU:O	1.63	0.99
6:AG:60:GLU:OE2	6:AG:199:ASN:HB3	1.61	0.99
22:AW:72:LEU:HD13	22:AW:77:ALA:HA	1.44	0.99
24:BA:1695:G:H2'	24:BA:1696:G:H5'	1.40	0.99
24:BA:1944:U:H1'	24:BA:1955:U:C1'	1.91	0.99
24:BA:2638:G:HO2'	24:BA:2639:A:H8	1.01	0.99
32:BK:28:ASN:O	32:BK:32:PRO:HG3	1.61	0.99
33:BL:115:LEU:HB3	33:BL:118:THR:HG22	1.44	0.99
39:BR:15:ARG:HH21	39:BR:15:ARG:HG2	1.23	0.99
39:BR:89:ARG:HG2	39:BR:90:GLY:H	1.25	0.99
40:BS:48:ILE:HD13	40:BS:50:ILE:HD13	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:79:ILE:HD11	32:BK:142:VAL:HG12	1.41	0.99
1:AA:1295:G:N2	1:AA:1302:U:H3	1.60	0.99
1:AA:1313:U:H5	21:AV:4:SER:HB2	1.27	0.99
7:AH:11:ILE:HG22	7:AH:12:LEU:N	1.77	0.99
21:AV:5:LEU:HD12	21:AV:9:VAL:HG13	1.03	0.99
49:B2:6:VAL:CG2	49:B2:56:VAL:HA	1.93	0.99
50:B3:13:ARG:HG2	50:B3:14:ILE:N	1.72	0.99
24:BA:1472:A:H1'	24:BA:1473:G:N7	1.78	0.99
24:BA:1860:G:H5''	26:BC:206:GLY:HA3	1.45	0.99
24:BA:2059:A:N1	24:BA:2503:A:N7	2.11	0.99
24:BA:2791:C:H2'	24:BA:2792:G:H8	1.26	0.99
35:BN:19:ILE:HB	35:BN:42:SER:O	1.62	0.99
36:BO:49:ARG:HG2	36:BO:49:ARG:HH21	1.28	0.99
24:BA:1418:G:H5'	24:BA:1587:A:O2'	1.60	0.99
1:AA:307:C:N4	1:AA:308:C:H41	1.61	0.99
24:BA:1024:G:C5'	24:BA:1025:G:H5''	1.93	0.99
24:BA:1790:C:HO2'	27:BD:209:ALA:HB1	0.95	0.99
24:BA:2384:G:H5''	24:BA:2386:C:OP1	1.61	0.99
24:BA:2698:U:H2'	24:BA:2699:C:C5	1.97	0.99
46:BY:27:VAL:CG2	46:BY:85:HIS:NE2	2.08	0.99
32:BK:87:LYS:NZ	32:BK:121:LYS:H	1.59	0.99
1:AA:1278:U:H4'	1:AA:1279:A:O4'	1.62	0.99
4:AE:97:TRP:HH2	4:AE:176:GLU:HG3	1.28	0.99
6:AG:112:VAL:HG23	6:AG:161:ASN:HD21	1.24	0.99
10:AK:34:GLU:O	10:AK:37:ARG:HB3	1.63	0.99
21:AV:11:VAL:HG12	21:AV:15:LEU:HD11	1.45	0.99
24:BA:1454:U:H5'	24:BA:1455:G:OP2	1.62	0.99
24:BA:1533:C:C2	24:BA:1539:G:N2	2.30	0.99
24:BA:2243:U:H2'	24:BA:2244:U:H6	1.25	0.99
24:BA:2742:C:H5''	55:B8:35:ARG:NH1	1.77	0.99
24:BA:1799:G:C8	27:BD:268:ARG:NH1	2.31	0.99
25:BB:45:A:H1'	30:BG:95:ARG:NH1	1.77	0.99
34:BM:57:ALA:HB3	34:BM:124:ALA:CB	1.92	0.99
35:BN:18:LYS:NZ	35:BN:44:LYS:HZ3	1.59	0.99
39:BR:74:ALA:HB1	39:BR:108:GLY:CA	1.92	0.99
24:BA:2378:A:H2'	39:BR:20:ARG:NH1	1.78	0.99
39:BR:78:LEU:HD13	39:BR:79:ALA:N	1.77	0.99
1:AA:730:G:C5	1:AA:731:G:H1'	1.97	0.99
1:AA:735:C:O2'	1:AA:736:C:H5'	1.61	0.99
9:AJ:126:ASP:HB3	9:AJ:131:LYS:O	1.60	0.99
10:AK:18:ARG:N	10:AK:18:ARG:HH11	1.59	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:20:VAL:HA	48:B1:55:LEU:HD23	1.43	0.99
48:B1:5:LEU:O	48:B1:8:ALA:HB3	1.61	0.99
24:BA:1612:C:O3'	53:B6:5:TRP:HD1	1.46	0.99
24:BA:215:G:H4'	24:BA:216:A:O5'	1.62	0.99
24:BA:2207:C:H2'	24:BA:2208:U:H4'	1.40	0.99
24:BA:2409:G:N2	24:BA:2410:G:H1'	1.77	0.99
24:BA:945:A:N6	24:BA:2448:A:H2	1.59	0.99
24:BA:1799:G:H3'	27:BD:183:ARG:HH22	1.27	0.99
24:BA:2683:C:H4'	28:BE:19:ARG:HH12	1.24	0.99
36:BO:135:LEU:O	36:BO:138:LEU:HB3	1.61	0.99
37:BP:48:GLU:HA	37:BP:51:ARG:HG2	1.44	0.99
26:BC:30:LYS:HZ1	26:BC:182:PRO:HD3	1.26	0.99
14:AO:28:LYS:HD2	14:AO:33:ARG:HH22	1.27	0.99
1:AA:953:G:O2'	15:AP:125:ARG:HA	1.62	0.99
24:BA:1488:G:H2'	24:BA:1489:U:H5'	1.41	0.99
24:BA:2331:G:H2'	24:BA:2332:U:O4'	1.63	0.99
24:BA:2415:G:H5''	36:BO:61:ARG:CB	1.93	0.99
24:BA:323:G:H5'	24:BA:324:A:OP1	1.63	0.99
24:BA:783:A:H3'	27:BD:227:ASN:OD1	1.63	0.99
29:BF:155:LEU:HG	29:BF:189:THR:CG2	1.93	0.99
30:BG:107:LEU:HD11	30:BG:177:GLY:O	1.63	0.99
35:BN:79:PHE:HB2	40:BS:73:GLU:HG3	1.45	0.99
26:BC:211:SER:HB2	26:BC:213:TYR:CE1	1.97	0.99
1:AA:313:A:H2'	1:AA:314:C:H6	1.17	0.98
4:AE:184:VAL:O	4:AE:198:ASP:HB2	1.62	0.98
17:AR:6:GLU:HG2	17:AR:7:GLU:H	1.27	0.98
1:AA:1311:G:N7	21:AV:2:PRO:HA	1.76	0.98
52:B5:19:ARG:HH12	52:B5:43:CYS:HB2	1.21	0.98
24:BA:1691:C:O2'	24:BA:1692:U:H5'	1.63	0.98
24:BA:270(D):C:H2'	24:BA:270(E):G:C8	1.98	0.98
24:BA:861:A:N6	24:BA:917:A:N7	2.11	0.98
29:BF:155:LEU:HG	29:BF:189:THR:HG21	1.02	0.98
31:BH:96:ALA:HB3	31:BH:128:PRO:HB2	0.99	0.98
31:BH:35:VAL:CG1	31:BH:75:ALA:HB2	1.93	0.98
35:BN:18:LYS:HB3	35:BN:45:GLU:CD	1.82	0.98
38:BQ:52:ILE:HD12	38:BQ:94:TYR:HD1	1.25	0.98
43:BV:29:LEU:O	43:BV:33:ARG:HB2	1.62	0.98
43:BV:42:ARG:HD2	43:BV:46:PHE:CE1	1.97	0.98
6:AG:47:ARG:NH1	6:AG:47:ARG:HB2	1.77	0.98
3:AD:3:C:H2'	3:AD:4:G:C8	1.99	0.98
5:AF:35:GLU:HA	5:AF:38:ARG:CG	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:69:ALA:HB1	13:AN:103:LEU:HD12	1.45	0.98
15:AP:48:LEU:HD21	15:AP:52:GLU:HB2	1.39	0.98
53:B6:43:THR:N	53:B6:44:PRO:HD2	1.78	0.98
24:BA:389:G:O6	36:BO:64:LYS:HG2	1.63	0.98
28:BE:12:THR:HG21	28:BE:19:ARG:HH11	1.28	0.98
31:BH:33:LEU:HD13	31:BH:75:ALA:HA	1.45	0.98
32:BK:2:LYS:O	32:BK:38:LEU:HD22	1.62	0.98
37:BP:74:TYR:OH	37:BP:94:VAL:HG22	1.60	0.98
41:BT:89:GLU:HA	42:BU:51:VAL:HG12	1.45	0.98
47:BZ:21:LEU:HG	47:BZ:39:ARG:O	1.62	0.98
3:AD:19:G:C2	3:AD:57:G:H1'	1.97	0.98
4:AE:101:MET:HA	4:AE:108:ILE:CG1	1.92	0.98
4:AE:56:ARG:HH11	4:AE:56:ARG:HB3	1.10	0.98
9:AJ:103:TRP:CH2	9:AJ:138:LYS:HA	1.98	0.98
10:AK:33:GLU:HA	10:AK:36:LEU:HD21	1.44	0.98
51:B4:10:LYS:C	51:B4:12:SER:H	1.61	0.98
24:BA:1177:A:H2'	24:BA:1178:C:C6	1.97	0.98
24:BA:1491:G:C2'	24:BA:1492:G:H4'	1.93	0.98
24:BA:1746:G:OP2	24:BA:1746:G:H3'	1.63	0.98
24:BA:1940:U:H5''	24:BA:1941:C:H5'	1.42	0.98
24:BA:364:C:H2'	24:BA:365:C:C5	1.97	0.98
24:BA:1775:U:C5	27:BD:208:LYS:HD2	1.97	0.98
27:BD:54:ARG:CB	27:BD:218:ARG:HB3	1.93	0.98
30:BG:165:THR:HB	30:BG:168:GLU:OE2	1.62	0.98
43:BV:16:LYS:HZ2	43:BV:16:LYS:N	1.60	0.98
1:AA:1103:C:O2'	4:AE:111:ARG:HD2	1.62	0.98
8:AI:19:LEU:HD23	8:AI:23:LYS:NZ	1.79	0.98
11:AL:16:ARG:HG2	11:AL:18:PHE:HE1	1.26	0.98
13:AN:61:ALA:HB1	13:AN:94:ALA:CB	1.92	0.98
50:B3:10:VAL:H	50:B3:11:PRO:HD2	1.29	0.98
50:B3:7:PRO:CD	50:B3:56:VAL:HG13	1.92	0.98
52:B5:19:ARG:HG2	52:B5:43:CYS:SG	2.03	0.98
53:B6:21:ARG:HB3	53:B6:31:LEU:HD11	1.44	0.98
24:BA:1227:A:C8	24:BA:1228:G:H5''	1.97	0.98
24:BA:1839:G:H2'	24:BA:1839:G:N3	1.79	0.98
24:BA:2304:G:H4'	30:BG:132:ASN:HD21	1.26	0.98
24:BA:336:C:C2'	24:BA:337:C:H5'	1.92	0.98
24:BA:5:A:H2'	24:BA:6:A:H8	1.24	0.98
25:BB:89:G:H2'	25:BB:89(A):A:C8	1.97	0.98
34:BM:67:LEU:H	34:BM:87:LEU:CD2	1.76	0.98
43:BV:74:ALA:CB	43:BV:105:VAL:HA	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1408:A:C2	1:AA:1494:G:N3	2.32	0.98
1:AA:628:G:H2'	1:AA:629:G:C8	1.97	0.98
4:AE:14:GLY:HA3	4:AE:209:ARG:NH2	1.79	0.98
7:AH:102:ALA:CB	7:AH:120:THR:HG22	1.93	0.98
8:AI:23:LYS:O	8:AI:26:ILE:HB	1.63	0.98
53:B6:17:GLY:H	53:B6:21:ARG:NH2	1.60	0.98
24:BA:323:G:C2	24:BA:333:G:H1'	1.98	0.98
24:BA:592:G:H5'	24:BA:593:G:OP2	1.63	0.98
40:BS:54:ARG:CG	40:BS:100:TYR:HB2	1.94	0.98
46:BY:157:LEU:HD21	46:BY:163:LEU:CG	1.93	0.98
24:BA:1418:G:H1'	24:BA:1581:G:H21	1.23	0.98
1:AA:112:G:H5'	1:AA:389:A:H4'	1.43	0.98
4:AE:136:VAL:CA	4:AE:139:LYS:HZ2	1.75	0.98
14:AO:41:ARG:HH22	14:AO:57:LYS:NZ	1.60	0.98
54:B7:31:HIS:N	54:B7:34:TRP:HE1	1.61	0.98
55:B8:10:ILE:C	55:B8:12:ASP:H	1.53	0.98
24:BA:1312:U:C5	44:BW:62:LYS:HD2	1.98	0.98
24:BA:2023:G:H2'	24:BA:2024:G:H8	1.22	0.98
24:BA:2848:G:H21	24:BA:2849:U:H3	1.08	0.98
24:BA:817:C:H2'	24:BA:818:G:O4'	1.63	0.98
29:BF:162:LEU:HA	29:BF:165:ARG:NH2	1.78	0.98
24:BA:2304:G:C4'	30:BG:132:ASN:HD21	1.76	0.98
43:BV:78:GLU:OE2	43:BV:99:ARG:HB3	1.62	0.98
46:BY:127:LYS:HZ3	46:BY:165:VAL:HB	1.24	0.98
32:BK:82:ARG:O	32:BK:88:ILE:HG23	1.64	0.98
32:BK:87:LYS:HD3	32:BK:121:LYS:C	1.83	0.98
24:BA:2135:A:N7	24:BA:2160:G:H1'	1.79	0.98
1:AA:1295:G:H21	1:AA:1302:U:H3	1.10	0.98
1:AA:1408:A:H2	1:AA:1494:G:H1'	1.26	0.98
8:AI:17:SER:O	8:AI:20:ALA:HB3	1.61	0.98
24:BA:809:G:H1'	24:BA:1254:A:N3	1.78	0.98
24:BA:2307:G:H5''	24:BA:2308:G:N7	1.77	0.98
24:BA:2626:C:H2'	24:BA:2627:G:H8	1.23	0.98
24:BA:270(M):U:H4'	24:BA:270(N):G:H4'	0.99	0.98
24:BA:613:U:H5'	24:BA:614:U:C5	1.99	0.98
29:BF:4:VAL:HG13	29:BF:20:LEU:HG	0.98	0.98
30:BG:102:PHE:HD2	30:BG:106:LEU:HD11	1.27	0.98
30:BG:47:LYS:CB	30:BG:72:ARG:HB3	1.93	0.98
32:BK:4:ILE:HA	32:BK:18:VAL:HG22	1.44	0.98
36:BO:23:PRO:HB2	36:BO:29:LYS:H	1.28	0.98
45:BX:82:PRO:HD3	45:BX:97:ARG:H	1.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:64:LEU:HD22	26:BC:191:ALA:CB	1.94	0.98
7:AH:51:VAL:O	7:AH:55:VAL:HG23	1.63	0.98
24:BA:1065:U:H2'	24:BA:1066:U:H4'	1.45	0.98
24:BA:1204:A:N7	36:BO:6:LEU:HB2	1.76	0.98
39:BR:24:LEU:HG	39:BR:40:ILE:O	1.62	0.98
44:BW:63:LYS:H	44:BW:72:LYS:HD2	1.27	0.98
32:BK:98:ALA:O	32:BK:102:SER:HB2	1.63	0.98
1:AA:974:A:H1'	16:AQ:31:ARG:HH21	1.28	0.98
4:AE:97:TRP:CZ3	4:AE:172:ILE:HB	1.97	0.98
1:AA:15:G:H4'	7:AH:24:ARG:HH22	1.28	0.98
9:AJ:70:LYS:O	9:AJ:138:LYS:HE3	1.62	0.98
10:AK:18:ARG:CA	10:AK:18:ARG:HH11	1.77	0.98
50:B3:13:ARG:CG	50:B3:14:ILE:H	1.77	0.98
24:BA:1996:C:H5''	24:BA:1996:C:C6	1.99	0.98
24:BA:2593:U:O4	27:BD:239:ARG:NH2	1.97	0.98
24:BA:2876:G:H5'	40:BS:1:MET:H3	1.28	0.98
27:BD:154:LYS:O	27:BD:155:LEU:HB3	1.60	0.98
27:BD:127:VAL:HA	27:BD:193:VAL:HG11	1.43	0.98
27:BD:57:GLY:N	27:BD:217:ARG:HH11	1.61	0.98
27:BD:72:LYS:HG2	27:BD:75:ILE:HD12	1.42	0.98
30:BG:53:LEU:HD21	30:BG:72:ARG:H	1.26	0.98
32:BK:9:LEU:HB2	32:BK:13:GLY:O	1.63	0.98
37:BP:34:LEU:HD12	37:BP:67:ARG:NH1	1.79	0.98
46:BY:24:LEU:HB2	46:BY:41:LEU:HD21	1.45	0.98
1:AA:1271:G:OP1	1:AA:1314:C:H5''	1.63	0.98
1:AA:1443:G:H4'	1:AA:1446:A:H5'	0.98	0.98
14:AO:39:VAL:HB	14:AO:57:LYS:HD2	1.45	0.98
21:AV:36:ARG:O	21:AV:71:LEU:HB2	1.64	0.98
24:BA:1254:A:H5'	24:BA:1255:U:H5'	1.42	0.98
24:BA:712:G:H2'	24:BA:713:G:H8	1.23	0.98
30:BG:105:LYS:NZ	30:BG:139:LEU:HD13	1.79	0.98
33:BL:108:ALA:HB1	33:BL:123:ALA:HB1	1.45	0.98
37:BP:66:ILE:HG22	37:BP:67:ARG:N	1.77	0.98
41:BT:105:VAL:HG22	41:BT:109:LEU:HD11	1.43	0.98
1:AA:597:G:N2	10:AK:94:TYR:HE2	1.62	0.97
1:AA:800:G:H8	1:AA:800:G:O5'	1.46	0.97
6:AG:94:LEU:HA	6:AG:97:LEU:CD1	1.94	0.97
9:AJ:138:LYS:HE2	9:AJ:142:GLU:OE1	1.64	0.97
8:AI:62:TRP:CB	20:AU:35:ARG:HH12	1.76	0.97
24:BA:1770:G:H2'	24:BA:1771:C:C6	1.97	0.97
24:BA:2439:A:H4'	24:BA:2440:C:O5'	1.58	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(P):C:H5'	32:BK:45:LYS:HD2	1.46	0.97
24:BA:776:G:H1'	24:BA:793:A:N1	1.79	0.97
27:BD:258:LYS:HG3	27:BD:264:LYS:CG	1.93	0.97
29:BF:6:VAL:HA	29:BF:20:LEU:CD1	1.93	0.97
29:BF:41:LEU:O	29:BF:44:ARG:HG3	1.64	0.97
39:BR:74:ALA:CB	39:BR:108:GLY:HA3	1.93	0.97
46:BY:118:GLN:HA	46:BY:118:GLN:HE21	1.26	0.97
46:BY:94:GLU:H	46:BY:95:PRO:HD3	1.25	0.97
3:AD:58:A:H2'	3:AD:61:C:N4	1.79	0.97
1:AA:1147:C:H2'	1:AA:1147:C:O2	1.63	0.97
9:AJ:115:ARG:HB2	9:AJ:118:VAL:CG2	1.93	0.97
24:BA:1510:A:H3'	24:BA:1511:A:N7	1.78	0.97
24:BA:237:C:H2'	24:BA:238:C:H6	1.27	0.97
25:BB:12:C:H5''	47:BZ:74:ARG:HG2	1.46	0.97
27:BD:54:ARG:HA	27:BD:220:HIS:H	1.27	0.97
30:BG:47:LYS:HB2	30:BG:72:ARG:CB	1.93	0.97
40:BS:102:ILE:O	40:BS:104:ASN:N	1.95	0.97
42:BU:73:SER:O	42:BU:89:GLN:HB2	1.65	0.97
43:BV:14:PRO:HD3	43:BV:78:GLU:OE2	1.63	0.97
44:BW:92:LEU:N	44:BW:92:LEU:HD12	1.79	0.97
4:AE:54:THR:O	4:AE:58:ILE:HG13	1.64	0.97
4:AE:91:PRO:HG3	4:AE:154:LEU:HB3	1.45	0.97
7:AH:100:VAL:HG11	7:AH:107:ARG:HG3	1.40	0.97
12:AM:15:THR:HG23	12:AM:16:LEU:HD22	1.43	0.97
19:AT:59:ILE:HD12	19:AT:72:ARG:O	1.62	0.97
24:BA:1312:U:H3'	24:BA:1313:U:C6	1.99	0.97
24:BA:1697:G:H5''	24:BA:1698:A:H5'	1.42	0.97
24:BA:282:A:C5	24:BA:283:A:H4'	2.00	0.97
24:BA:627:A:H61	24:BA:638:G:H1'	1.24	0.97
30:BG:110:ALA:HA	30:BG:113:ARG:HD3	1.46	0.97
34:BM:46:VAL:CG1	34:BM:47:ALA:H	1.69	0.97
37:BP:134:ARG:HD3	37:BP:137:TYR:HA	1.46	0.97
37:BP:85:LYS:HG3	37:BP:86:GLY:N	1.78	0.97
41:BT:88:ILE:C	42:BU:52:VAL:HA	1.84	0.97
42:BU:65:GLY:N	42:BU:97:LYS:HE3	1.79	0.97
1:AA:1363:A:H1'	1:AA:1365:G:N7	1.80	0.97
10:AK:10:LEU:O	10:AK:13:ILE:HB	1.61	0.97
50:B3:18:CYS:H	50:B3:33:VAL:HB	1.25	0.97
51:B4:31:VAL:HB	51:B4:32:PRO:HD2	1.45	0.97
51:B4:48:GLU:HA	51:B4:58:LEU:HG	1.43	0.97
54:B7:12:LYS:HG2	54:B7:13:ARG:NH1	1.78	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2587:A:C2'	24:BA:2588:G:H5'	1.94	0.97
24:BA:775:G:H1'	24:BA:791:C:N4	1.79	0.97
24:BA:987:G:OP2	49:B2:13:ILE:HG21	1.62	0.97
25:BB:87:G:H8	25:BB:87:G:OP2	1.47	0.97
30:BG:53:LEU:HB3	30:BG:69:ALA:O	1.62	0.97
30:BG:78:SER:HB2	30:BG:83:ARG:HD2	1.47	0.97
35:BN:85:VAL:HG12	35:BN:93:PRO:HG3	1.46	0.97
41:BT:76:TYR:CE2	41:BT:80:ILE:HD11	1.98	0.97
1:AA:101:A:H2'	1:AA:102:G:H8	1.29	0.97
5:AF:122:GLU:HA	5:AF:125:GLU:HG3	1.46	0.97
5:AF:47:LEU:HD11	5:AF:83:ARG:HH21	1.24	0.97
48:B1:27:LEU:HA	48:B1:30:LEU:HG	1.42	0.97
50:B3:46:GLN:HE22	50:B3:69:LYS:HE2	1.23	0.97
53:B6:28:ARG:HA	53:B6:31:LEU:HD12	1.41	0.97
24:BA:1684:C:H2'	24:BA:1685:C:C6	2.00	0.97
24:BA:1710:C:H2'	24:BA:1711:C:H6	1.26	0.97
24:BA:20:C:O2'	24:BA:21:A:H5'	1.62	0.97
24:BA:2564:A:H2'	24:BA:2565:A:C8	1.97	0.97
24:BA:2832:U:H1'	24:BA:2834:G:H21	1.28	0.97
24:BA:373:U:H4'	24:BA:374:A:C8	1.98	0.97
24:BA:637:A:C2	24:BA:651:G:H4'	2.00	0.97
24:BA:641:C:C2'	24:BA:642:G:H5'	1.93	0.97
24:BA:648:G:H2'	24:BA:649:G:H8	1.30	0.97
39:BR:99:LYS:O	39:BR:102:ALA:HB3	1.64	0.97
39:BR:40:ILE:HG23	39:BR:46:VAL:O	1.64	0.97
43:BV:88:ARG:NE	43:BV:88:ARG:HA	1.76	0.97
25:BB:12:C:H5''	47:BZ:74:ARG:CG	1.94	0.97
32:BK:68:LEU:HD21	32:BK:107:VAL:HG21	1.46	0.97
1:AA:1530:G:C2	1:AA:1531:A:H1'	2.00	0.97
1:AA:475:G:H2'	1:AA:476:G:H8	1.28	0.97
1:AA:763:G:H2'	1:AA:764:C:H6	1.28	0.97
5:AF:122:GLU:O	5:AF:125:GLU:HB2	1.65	0.97
24:BA:1782:C:C5	24:BA:2587:A:N6	2.33	0.97
24:BA:1853:A:H2'	24:BA:1854:A:H8	1.29	0.97
24:BA:1859:A:H2'	24:BA:1860:G:O4'	1.65	0.97
24:BA:2862:G:H2'	24:BA:2863:C:H6	1.25	0.97
24:BA:828:U:H2'	24:BA:829:A:H8	1.04	0.97
24:BA:911:A:C8	24:BA:2264:C:H1'	1.97	0.97
25:BB:12:C:O4'	47:BZ:74:ARG:NE	1.96	0.97
28:BE:14:ILE:HA	28:BE:19:ARG:HB2	1.42	0.97
28:BE:4:ILE:O	28:BE:27:LEU:HD13	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:320:A:H2'	29:BF:136:THR:HG21	1.44	0.97
30:BG:58:GLN:O	30:BG:61:ALA:HB3	1.64	0.97
31:BH:118:PRO:HD2	31:BH:121:ILE:HD13	1.44	0.97
37:BP:48:GLU:O	37:BP:51:ARG:HG3	1.62	0.97
42:BU:69:LYS:O	42:BU:91:TYR:O	1.82	0.97
5:AF:34:LEU:HD23	5:AF:35:GLU:N	1.79	0.97
10:AK:18:ARG:HA	10:AK:18:ARG:NH1	1.80	0.97
10:AK:39:LEU:HB3	10:AK:45:ILE:CG2	1.93	0.97
13:AN:80:VAL:O	13:AN:106:LYS:HB3	1.62	0.97
24:BA:2208:U:H2'	24:BA:2209:C:H5'	1.42	0.97
24:BA:2445:G:H2'	24:BA:2446:G:C8	2.00	0.97
24:BA:452:G:H3'	24:BA:453:C:H5''	1.47	0.97
24:BA:455:C:H5''	24:BA:456:C:OP1	1.65	0.97
24:BA:775:G:C2'	24:BA:794:G:C8	2.48	0.97
27:BD:232:PRO:HG2	27:BD:247:ALA:N	1.79	0.97
27:BD:258:LYS:HG3	27:BD:264:LYS:HG3	0.97	0.97
28:BE:66:HIS:ND1	28:BE:67:PHE:N	2.12	0.97
29:BF:45:ARG:HD3	29:BF:97:TYR:CD1	2.00	0.97
30:BG:135:LEU:HD13	30:BG:136:ARG:H	1.30	0.97
30:BG:47:LYS:HZ3	30:BG:73:ALA:HB3	1.08	0.97
31:BH:125:VAL:HA	31:BH:131:VAL:HG22	1.44	0.97
34:BM:34:LEU:HD21	34:BM:120:LEU:HB2	1.44	0.97
37:BP:23:GLY:CA	37:BP:101:ARG:HH21	1.77	0.97
38:BQ:99:LYS:CD	38:BQ:99:LYS:H	1.74	0.97
24:BA:154:G:H2'	24:BA:155:C:C6	1.99	0.97
1:AA:961:U:O2'	1:AA:962:C:H5'	1.65	0.97
4:AE:80:ILE:HG23	4:AE:212:GLN:HE21	1.30	0.97
4:AE:67:THR:HB	4:AE:90:MET:SD	2.04	0.97
9:AJ:79:ARG:NH1	9:AJ:84:ASN:HB3	1.80	0.97
15:AP:37:THR:HB	15:AP:59:TYR:CD2	2.00	0.97
22:AW:62:LEU:HA	22:AW:65:LYS:HG2	1.46	0.97
51:B4:48:GLU:CA	51:B4:58:LEU:HG	1.95	0.97
24:BA:1944:U:H1'	24:BA:1955:U:H1'	1.44	0.97
24:BA:2658:C:H2'	24:BA:2659:G:H5'	0.98	0.97
24:BA:2698:U:H2'	24:BA:2699:C:C6	1.99	0.97
27:BD:62:TYR:CE1	27:BD:86:PRO:HB2	2.00	0.97
2:AC:57:A:H1'	30:BG:82:LEU:HD13	1.43	0.97
34:BM:33:LEU:HD13	34:BM:34:LEU:N	1.79	0.97
36:BO:126:VAL:HA	36:BO:146:VAL:H	1.29	0.97
37:BP:124:LYS:HE2	37:BP:125:LEU:N	1.80	0.97
38:BQ:8:ARG:HG2	38:BQ:10:LEU:HD21	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:62:LYS:O	39:BR:65:VAL:HG12	1.64	0.97
3:AD:51:C:H2'	3:AD:52:G:C8	2.00	0.97
1:AA:1423:G:H2'	1:AA:1424:C:C6	1.99	0.97
5:AF:14:ILE:HG22	5:AF:15:THR:HG23	1.45	0.97
1:AA:942:G:H21	11:AL:124:GLN:NE2	1.62	0.97
49:B2:4:LEU:O	49:B2:37:LEU:CB	2.12	0.97
24:BA:2886:G:O2'	51:B4:31:VAL:HB	1.64	0.97
36:BO:45:LEU:HD13	54:B7:59:LYS:HZ1	0.85	0.97
24:BA:1625:C:H2'	24:BA:1626:G:C4'	1.95	0.97
24:BA:2412:A:H2'	24:BA:2413:G:O4'	1.63	0.97
24:BA:319:C:H2'	24:BA:320:A:C8	2.00	0.97
27:BD:196:VAL:HG12	27:BD:197:GLY:N	1.79	0.97
27:BD:258:LYS:CG	27:BD:264:LYS:HG3	1.93	0.97
29:BF:131:GLY:HA2	29:BF:138:GLU:CB	1.95	0.97
29:BF:183:VAL:O	29:BF:186:ILE:HB	1.64	0.97
31:BH:164:TYR:HE2	31:BH:167:GLU:H	1.05	0.97
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.27	0.97
1:AA:38:G:H22	1:AA:397:A:C5'	1.78	0.97
4:AE:102:LEU:CD1	4:AE:102:LEU:H	1.78	0.97
9:AJ:105:VAL:O	9:AJ:108:ALA:HB3	1.65	0.97
24:BA:1315:C:O2'	24:BA:1392:A:H1'	1.63	0.97
27:BD:133:LEU:HD11	27:BD:185:VAL:HG12	1.47	0.97
30:BG:120:LEU:HD22	30:BG:181:ARG:CB	1.93	0.97
35:BN:68:GLU:OE2	35:BN:76:ALA:HB3	1.63	0.97
35:BN:63:VAL:HA	35:BN:78:ARG:HG3	1.43	0.97
39:BR:76:LYS:O	39:BR:80:LEU:HD23	1.63	0.97
41:BT:89:GLU:HG2	42:BU:52:VAL:HG23	1.44	0.97
42:BU:76:LYS:HA	42:BU:85:LYS:O	1.63	0.97
44:BW:89:ILE:HG23	44:BW:92:LEU:HD22	1.43	0.97
4:AE:187:LEU:HD23	4:AE:201:ILE:HG22	1.47	0.96
14:AO:37:CYS:CA	14:AO:58:VAL:HG22	1.94	0.96
17:AR:29:VAL:HG11	17:AR:81:LEU:HD21	1.46	0.96
22:AW:56:MET:O	22:AW:59:ALA:HB3	1.64	0.96
50:B3:47:GLN:HA	50:B3:52:THR:CB	1.95	0.96
24:BA:1212:G:HO2'	24:BA:1213:A:H8	1.05	0.96
27:BD:147:LEU:CG	27:BD:154:LYS:HD2	1.95	0.96
24:BA:1789:A:H2'	27:BD:213:ARG:NH2	1.80	0.96
28:BE:30:PRO:HG2	28:BE:90:THR:HG22	1.47	0.96
29:BF:168:ARG:NH2	29:BF:168:ARG:HB2	1.80	0.96
1:AA:1005:A:H5''	1:AA:1006:C:C5	1.98	0.96
1:AA:129(A):G:H2'	1:AA:189:U:C6	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:21:G:H2'	1:AA:22:G:C8	2.00	0.96
1:AA:66:G:H5'	1:AA:173:U:O4	1.65	0.96
51:B4:51:TYR:CD1	51:B4:55:ARG:HD3	2.01	0.96
24:BA:1019:U:H2'	24:BA:1020:A:O4'	1.64	0.96
24:BA:1222:C:H42	24:BA:1227:A:H62	1.10	0.96
24:BA:1706:U:H3	24:BA:1757:U:H5''	1.28	0.96
24:BA:2346:A:N6	52:B5:37:ARG:HH12	1.63	0.96
24:BA:2491:U:H6	24:BA:2491:U:C3'	1.77	0.96
29:BF:154:VAL:O	29:BF:174:VAL:HG13	1.65	0.96
35:BN:7:TYR:N	35:BN:7:TYR:CD1	2.31	0.96
39:BR:73:LEU:O	39:BR:76:LYS:HE3	1.65	0.96
39:BR:13:ARG:HD3	39:BR:90:GLY:O	1.65	0.96
43:BV:48:ALA:HA	43:BV:51:LEU:HD22	1.42	0.96
46:BY:127:LYS:CD	46:BY:164:ALA:H	1.75	0.96
46:BY:96:VAL:HA	46:BY:128:VAL:HG13	1.45	0.96
47:BZ:37:LEU:HD21	47:BZ:61:ALA:N	1.80	0.96
26:BC:47:LEU:HD23	26:BC:47:LEU:H	1.30	0.96
32:BK:133:HIS:ND1	32:BK:134:PRO:HD2	1.78	0.96
1:AA:1533:C:HO2'	1:AA:1534:A:H8	0.99	0.96
7:AH:12:LEU:HB3	7:AH:31:LEU:HB3	1.45	0.96
48:B1:30:LEU:HD11	48:B1:48:LEU:HD23	1.44	0.96
48:B1:48:LEU:O	48:B1:52:ILE:HG12	1.63	0.96
24:BA:1203:G:C2	24:BA:1241:A:H8	1.83	0.96
24:BA:1312:U:H2'	24:BA:1313:U:C6	1.98	0.96
24:BA:1864:U:H2'	24:BA:1869:G:H5'	1.45	0.96
24:BA:2853:C:H2'	24:BA:2854:G:H8	1.30	0.96
24:BA:612:G:H4'	24:BA:616:A:H61	1.15	0.96
38:BQ:12:ARG:NH1	38:BQ:16:HIS:HB3	1.80	0.96
32:BK:69:LYS:HE3	32:BK:70:LYS:HG3	1.46	0.96
26:BC:149:ILE:HG12	26:BC:153:ILE:HD11	1.47	0.96
26:BC:68:LEU:HD23	26:BC:69:GLY:N	1.80	0.96
1:AA:380:G:N2	1:AA:382:A:H3'	1.78	0.96
1:AA:399:G:H2'	1:AA:400:C:C6	2.01	0.96
24:BA:1144:G:H2'	24:BA:1145:C:H6	1.21	0.96
24:BA:2556:C:O2'	24:BA:2557:G:H5'	1.65	0.96
25:BB:51:G:H2'	25:BB:52:A:C5'	1.95	0.96
27:BD:204:ILE:HG13	27:BD:205:VAL:H	1.29	0.96
27:BD:7:LYS:NZ	27:BD:91:ARG:HH11	1.62	0.96
29:BF:131:GLY:HA2	29:BF:138:GLU:HB2	1.47	0.96
29:BF:18:ARG:NH1	29:BF:20:LEU:HD11	1.80	0.96
31:BH:96:ALA:CB	31:BH:128:PRO:HB2	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:21:VAL:HG11	32:BK:30:LEU:HD13	1.48	0.96
36:BO:74:GLU:HB2	36:BO:107:LYS:NZ	1.81	0.96
41:BT:47:TYR:CE2	42:BU:75:PHE:HB3	1.99	0.96
46:BY:4:ARG:HH11	46:BY:37:VAL:HB	1.28	0.96
1:AA:818:G:H3'	1:AA:819:A:H5''	1.44	0.96
7:AH:72:GLN:HG3	7:AH:77:PRO:HD3	1.43	0.96
52:B5:16:CYS:HB2	52:B5:49:HIS:HA	1.45	0.96
24:BA:1267:U:H2'	24:BA:1268:A:H5'	1.45	0.96
24:BA:2047:U:H2'	24:BA:2048:G:H8	1.28	0.96
24:BA:2061:G:O2'	24:BA:2062:A:H5''	1.65	0.96
24:BA:2530:A:C3'	24:BA:2531:A:H5''	1.95	0.96
24:BA:1824:G:OP1	27:BD:53:PHE:CZ	2.18	0.96
29:BF:155:LEU:CG	29:BF:189:THR:HG21	1.96	0.96
41:BT:74:LEU:CD1	41:BT:78:THR:HG21	1.94	0.96
44:BW:8:ILE:HD11	44:BW:42:ALA:CB	1.95	0.96
45:BX:12:THR:HA	45:BX:73:ARG:CZ	1.95	0.96
24:BA:2123:G:H4'	26:BC:172:HIS:CD2	2.00	0.96
26:BC:100:ILE:HG23	26:BC:127:LEU:HG	1.43	0.96
1:AA:1265:G:H2'	1:AA:1266:G:H5'	1.47	0.96
1:AA:1396:A:O4'	1:AA:1398:A:H1'	1.64	0.96
1:AA:232:G:H2'	1:AA:233:C:H6	1.26	0.96
20:AU:66:LEU:O	20:AU:70:ILE:HG13	1.66	0.96
24:BA:1790:C:H2'	24:BA:1791:A:N7	1.81	0.96
24:BA:2471:C:H2'	24:BA:2472:G:H5'	1.48	0.96
24:BA:2636:U:H4'	28:BE:79:ARG:HD3	1.48	0.96
24:BA:443:A:H5'	29:BF:45:ARG:NH1	1.78	0.96
30:BG:68:PRO:CG	30:BG:72:ARG:HH12	1.78	0.96
31:BH:65:HIS:O	31:BH:69:ARG:HG2	1.63	0.96
38:BQ:77:ARG:HG3	38:BQ:77:ARG:HH11	1.25	0.96
41:BT:112:ARG:HH12	42:BU:49:THR:HG23	1.28	0.96
26:BC:93:TYR:CE1	26:BC:109:ASP:HB2	1.99	0.96
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.31	0.96
4:AE:146:GLN:NE2	4:AE:150:SER:HB2	1.79	0.96
9:AJ:75:VAL:HG23	9:AJ:145:ALA:HB1	1.48	0.96
11:AL:9:ARG:O	11:AL:104:ARG:HG2	1.65	0.96
12:AM:45:ARG:HB3	12:AM:45:ARG:NH1	1.80	0.96
24:BA:1400:G:H2'	24:BA:1401:G:H8	1.26	0.96
24:BA:1889:A:H2'	24:BA:1890:A:C8	1.99	0.96
24:BA:1890:A:C2	24:BA:1891:G:H1'	2.00	0.96
24:BA:653:A:N6	24:BA:655:A:N3	2.13	0.96
24:BA:871:U:H5''	37:BP:9:TYR:CE2	2.00	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:105:VAL:HA	41:BT:108:GLU:OE1	1.65	0.96
1:AA:1297:C:H4'	1:AA:1298:C:O5'	1.63	0.96
1:AA:50:A:C5'	1:AA:51:A:H5'	1.95	0.96
1:AA:665:A:H2'	1:AA:725:G:H21	1.21	0.96
1:AA:962:C:H1'	1:AA:1201:A:N1	1.80	0.96
4:AE:91:PRO:HG3	4:AE:155:LEU:H	1.30	0.96
24:BA:2019:A:H3'	24:BA:2020:A:C5'	1.96	0.96
24:BA:874:G:H2'	24:BA:874:G:N3	1.79	0.96
35:BN:57:VAL:O	35:BN:59:LYS:NZ	1.99	0.96
36:BO:45:LEU:O	36:BO:46:LYS:HB3	1.66	0.96
38:BQ:58:GLY:HA2	38:BQ:80:PHE:CE2	2.00	0.96
40:BS:50:ILE:CB	40:BS:66:VAL:HB	1.96	0.96
42:BU:36:PRO:HA	42:BU:60:GLU:O	1.65	0.96
4:AE:169:LYS:NZ	4:AE:170:GLU:HA	1.80	0.96
6:AG:141:ARG:CD	6:AG:142:PRO:HD2	1.96	0.96
11:AL:3:GLN:HA	11:AL:20:ARG:HG2	1.48	0.96
15:AP:80:ARG:HH12	15:AP:81:LEU:HB3	1.27	0.96
22:AW:85:MET:HB3	22:AW:104:LEU:HD21	1.48	0.96
24:BA:1072:C:H42	24:BA:1100:C:N4	1.63	0.96
24:BA:1543:A:OP2	24:BA:1544:C:H6	1.48	0.96
24:BA:1697:G:H3'	24:BA:1698:A:C5'	1.95	0.96
24:BA:775:G:H21	24:BA:787:U:H2'	1.02	0.96
29:BF:31:HIS:CG	36:BO:14:LYS:HZ1	1.84	0.96
30:BG:63:ILE:HD11	30:BG:105:LYS:NZ	1.79	0.96
34:BM:4:TYR:OH	41:BT:101:ARG:HB3	1.65	0.96
34:BM:69:GLN:NE2	34:BM:87:LEU:HD22	1.81	0.96
35:BN:105:GLU:O	35:BN:111:PHE:HZ	1.46	0.96
37:BP:44:ALA:O	37:BP:47:ILE:HB	1.63	0.96
45:BX:76:CYS:HB3	45:BX:100:ALA:HB3	1.47	0.96
47:BZ:82:ARG:HD2	47:BZ:83:PRO:CD	1.95	0.96
24:BA:2178:C:H5'	26:BC:46:LYS:HG2	1.45	0.96
26:BC:22:ILE:O	26:BC:25:ALA:HB3	1.65	0.96
1:AA:1185:G:N2	1:AA:1186:G:H1'	1.81	0.96
24:BA:1182:A:O3'	24:BA:1183:G:H3'	1.64	0.96
24:BA:1425:G:H2'	24:BA:1426:G:C8	2.01	0.96
24:BA:1518:C:H2'	24:BA:1519:G:H4'	1.47	0.96
24:BA:1916:A:H3'	24:BA:1916:A:N3	1.79	0.96
24:BA:2459:A:N3	24:BA:2460:U:C1'	2.29	0.96
24:BA:2506:U:O2'	24:BA:2507:C:H5'	1.64	0.96
24:BA:2563:U:H4'	35:BN:28:SER:OG	1.66	0.96
24:BA:2897:U:H2'	24:BA:2898:U:H6	1.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:566:U:C5'	42:BU:82:ARG:HH12	1.78	0.96
24:BA:832:G:H2'	24:BA:833:U:C5	1.99	0.96
24:BA:932:G:H2'	24:BA:933:A:C8	2.01	0.96
28:BE:110:GLY:HA2	28:BE:161:GLY:O	1.63	0.96
29:BF:103:LYS:CA	29:BF:106:ARG:HG2	1.95	0.96
29:BF:106:ARG:HG3	29:BF:107:LYS:N	1.80	0.96
35:BN:85:VAL:O	35:BN:93:PRO:HD2	1.64	0.96
43:BV:6:ILE:HG12	43:BV:104:THR:HA	1.45	0.96
24:BA:1498:C:H6	24:BA:1576:U:H4'	1.23	0.96
1:AA:1004:A:H5''	1:AA:1025:U:C4	2.01	0.96
2:AC:28:C:H2'	2:AC:29:G:H8	1.29	0.95
48:B1:55:LEU:O	48:B1:58:VAL:HG22	1.65	0.95
24:BA:2371:G:H5'	52:B5:45:LYS:HB3	1.44	0.95
55:B8:7:VAL:HB	55:B8:36:GLN:NE2	1.80	0.95
24:BA:1157:G:H3'	24:BA:1157:G:OP2	1.63	0.95
24:BA:1266:G:H2'	24:BA:2012:G:O6	1.66	0.95
24:BA:2432:A:H2	50:B3:30:GLU:HA	1.30	0.95
24:BA:2542:A:H5'	24:BA:2543:G:OP1	1.66	0.95
24:BA:2720:U:H3'	24:BA:2721:A:H8	1.30	0.95
24:BA:2781:A:H3'	24:BA:2781:A:C8	2.01	0.95
24:BA:2791:C:H2'	24:BA:2792:G:C8	2.01	0.95
28:BE:49:LEU:HD13	28:BE:50:GLY:H	1.27	0.95
35:BN:70:LYS:HD3	35:BN:107:ARG:HH22	1.28	0.95
37:BP:34:LEU:HD23	37:BP:34:LEU:N	1.80	0.95
38:BQ:96:ARG:HG2	38:BQ:98:LEU:HD21	1.43	0.95
38:BQ:98:LEU:O	38:BQ:112:ALA:HB1	1.66	0.95
24:BA:519:U:H5''	43:BV:75:TYR:HB2	1.44	0.95
45:BX:54:LYS:HE2	45:BX:54:LYS:HA	1.45	0.95
46:BY:144:LEU:C	46:BY:174:VAL:HG11	1.86	0.95
46:BY:15:PRO:O	46:BY:18:LEU:HB2	1.66	0.95
2:AC:37:A:H2'	2:AC:38:A:C8	2.00	0.95
9:AJ:38:LEU:HA	9:AJ:41:ARG:HG3	1.43	0.95
49:B2:4:LEU:HD21	49:B2:56:VAL:HG22	1.47	0.95
50:B3:68:ARG:H	50:B3:68:ARG:HD3	1.31	0.95
38:BQ:33:ARG:HH22	51:B4:56:LYS:HB2	1.25	0.95
24:BA:2701:C:H3'	24:BA:2702:U:C5'	1.95	0.95
24:BA:918:A:H5'	24:BA:919:G:OP2	1.66	0.95
25:BB:88:C:N4	25:BB:89:G:H21	1.62	0.95
27:BD:107:ALA:H	27:BD:108:PRO:CD	1.79	0.95
29:BF:119:ARG:NH2	29:BF:119:ARG:HB2	1.80	0.95
37:BP:82:ARG:HG2	37:BP:83:MET:SD	2.06	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:44:ASN:O	41:BT:47:TYR:HB2	1.64	0.95
46:BY:74:VAL:HG22	46:BY:87:ASP:H	1.31	0.95
1:AA:173:U:C4'	1:AA:197:A:H1'	1.95	0.95
7:AH:16:THR:HG23	7:AH:28:PHE:HA	1.46	0.95
7:AH:79:GLU:HB3	7:AH:92:LYS:HA	1.47	0.95
11:AL:74:ILE:HA	11:AL:77:ILE:HD12	1.44	0.95
24:BA:472:A:H2'	24:BA:473:G:H5'	1.48	0.95
24:BA:2619:C:H5''	28:BE:152:LYS:HA	1.46	0.95
29:BF:164:ARG:CB	29:BF:177:ALA:HB2	1.97	0.95
30:BG:111:LEU:HD21	30:BG:178:PHE:CD2	2.02	0.95
35:BN:24:VAL:HA	35:BN:39:ILE:HG22	1.45	0.95
35:BN:43:VAL:HG13	35:BN:54:GLU:OE2	1.65	0.95
37:BP:22:LYS:HD2	37:BP:99:PRO:CG	1.96	0.95
38:BQ:33:ARG:HB2	38:BQ:113:LEU:HD21	1.46	0.95
43:BV:19:LEU:HB3	51:B4:25:LEU:CD1	1.95	0.95
26:BC:68:LEU:HD13	26:BC:160:ARG:H	1.29	0.95
1:AA:124:G:H2'	1:AA:125:U:O4'	1.65	0.95
1:AA:1269:A:H5'	1:AA:1326:C:H4'	1.49	0.95
1:AA:370:C:H2'	1:AA:371:G:H8	1.29	0.95
1:AA:52:G:O2'	1:AA:53:A:H5'	1.66	0.95
1:AA:573:A:H2'	1:AA:574:A:C8	2.00	0.95
1:AA:922:G:H4'	7:AH:20:GLN:HA	1.49	0.95
4:AE:222:ILE:HD13	4:AE:226:ARG:NH2	1.82	0.95
16:AQ:27:CYS:H	16:AQ:43:CYS:HB3	1.32	0.95
52:B5:16:CYS:HB3	52:B5:49:HIS:CG	2.01	0.95
53:B6:19:ARG:HB3	53:B6:23:ARG:HH21	1.27	0.95
24:BA:1626:G:N2	24:BA:1634:A:H1'	1.81	0.95
24:BA:1820:U:H2'	27:BD:202:LYS:HZ3	1.30	0.95
24:BA:297:C:H3'	24:BA:298:G:C8	2.02	0.95
24:BA:332:A:H2'	24:BA:335:C:H41	1.31	0.95
35:BN:20:MET:O	35:BN:41:ALA:HB1	1.66	0.95
37:BP:125:LEU:HB3	37:BP:126:PRO:CD	1.96	0.95
37:BP:41:TRP:CB	37:BP:94:VAL:HG21	1.96	0.95
44:BW:66:LEU:HG	44:BW:69:TYR:O	1.67	0.95
3:AD:23:A:H2'	3:AD:24:G:H8	1.30	0.95
24:BA:2122:U:H2'	24:BA:2123:G:H5''	1.45	0.95
24:BA:1581:G:H2'	24:BA:1582:C:O4'	1.66	0.95
1:AA:1305:G:OP1	23:AX:2:GLY:HA3	1.67	0.95
1:AA:691:G:H22	13:AN:51:LYS:NZ	1.64	0.95
4:AE:185:ILE:CG2	4:AE:199:TYR:HB2	1.97	0.95
5:AF:47:LEU:O	5:AF:52:LEU:HD22	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:23:LYS:HA	8:AI:26:ILE:CD1	1.95	0.95
19:AT:59:ILE:HD12	19:AT:60:ILE:H	1.31	0.95
24:BA:95:G:O2'	48:B1:42:ASN:HB2	1.66	0.95
24:BA:2074:U:H2'	24:BA:2597:G:N2	1.81	0.95
24:BA:2414:G:H2'	24:BA:2414:G:N3	1.77	0.95
24:BA:2514:U:H2'	24:BA:2515:C:H6	1.28	0.95
24:BA:261:G:H4'	24:BA:608:A:H2	1.26	0.95
27:BD:92:ILE:HD11	27:BD:104:TYR:HD1	1.31	0.95
24:BA:1789:A:P	27:BD:222:ARG:HG2	2.05	0.95
29:BF:33:LEU:O	29:BF:36:VAL:HG12	1.64	0.95
35:BN:99:PHE:HE2	35:BN:105:GLU:OE2	1.49	0.95
41:BT:105:VAL:O	41:BT:109:LEU:HG	1.67	0.95
44:BW:50:LYS:NZ	44:BW:85:PRO:HD2	1.81	0.95
1:AA:705:U:C5	1:AA:706:A:N7	2.34	0.95
1:AA:944:G:H3'	1:AA:945:G:H5''	1.48	0.95
50:B3:68:ARG:N	50:B3:68:ARG:HD3	1.79	0.95
24:BA:104:U:H2'	24:BA:105:C:O4'	1.66	0.95
24:BA:1241:A:OP2	24:BA:1241:A:N3	1.99	0.95
24:BA:816:C:O2'	24:BA:817:C:H5'	1.64	0.95
24:BA:960:A:O2'	24:BA:961:C:H5'	1.66	0.95
27:BD:176:ARG:HH12	27:BD:182:LEU:HD11	1.32	0.95
28:BE:147:PRO:CG	28:BE:149:ARG:HD2	1.97	0.95
1:AA:1128:C:O2	1:AA:1130:A:N6	1.99	0.95
1:AA:1180:A:C2'	1:AA:1181:G:H5'	1.96	0.95
1:AA:228:A:H2'	1:AA:229:U:H5'	1.45	0.95
1:AA:914:A:H2'	1:AA:915:A:C8	2.01	0.95
7:AH:43:LEU:HD23	7:AH:44:GLY:N	1.81	0.95
9:AJ:135:VAL:O	9:AJ:138:LYS:HB3	1.65	0.95
11:AL:16:ARG:HG2	11:AL:18:PHE:CE1	2.01	0.95
21:AV:62:ILE:CD1	21:AV:67:VAL:HA	1.96	0.95
1:AA:1225:A:H5'	21:AV:78:ARG:NH1	1.82	0.95
24:BA:1151:G:H2'	24:BA:1152:C:C6	2.01	0.95
24:BA:1157:G:O2'	49:B2:31:LEU:HD12	1.66	0.95
24:BA:1524:G:H2'	24:BA:1525:G:H8	1.31	0.95
24:BA:183:C:H42	24:BA:214:G:H1	1.00	0.95
27:BD:44:ASN:HD22	27:BD:218:ARG:HH12	1.08	0.95
24:BA:2051:A:O3'	28:BE:141:ILE:HG12	1.66	0.95
29:BF:158:THR:HB	29:BF:195:ASP:HB2	1.46	0.95
39:BR:38:GLN:NE2	39:BR:40:ILE:HD11	1.80	0.95
32:BK:124:GLY:O	32:BK:144:VAL:O	1.84	0.95
1:AA:748:C:H3'	1:AA:748:C:H6	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1339:A:H2'	1:AA:1340:A:H5'	1.49	0.95
1:AA:501:C:H1'	1:AA:549:C:H1'	1.49	0.95
17:AR:53:HIS:O	17:AR:57:LEU:HD13	1.66	0.95
8:AI:89:MET:HG2	20:AU:76:LEU:HD21	1.46	0.95
50:B3:10:VAL:H	50:B3:11:PRO:CD	1.80	0.95
24:BA:1203:G:N1	24:BA:1240:U:C2	2.35	0.95
24:BA:1672:C:H3'	24:BA:1673:U:H5''	1.48	0.95
24:BA:1917:U:C5	24:BA:1918:A:N3	2.35	0.95
24:BA:1918:A:C8	24:BA:1919:A:N6	2.35	0.95
24:BA:640:C:H2'	24:BA:641:C:H5'	1.49	0.95
24:BA:68:G:H2'	24:BA:69:C:H6	1.23	0.95
24:BA:950:G:H2'	24:BA:951:C:C5	2.01	0.95
25:BB:37:C:H2'	25:BB:38:C:O4'	1.66	0.95
27:BD:5:LYS:HE3	27:BD:81:ALA:CB	1.97	0.95
29:BF:122:LYS:HD2	29:BF:124:LEU:HD12	1.48	0.95
29:BF:196:LEU:HD22	29:BF:199:TRP:HD1	1.32	0.95
25:BB:42:C:C2	30:BG:93:THR:HB	2.02	0.95
32:BK:21:VAL:HB	32:BK:26:ALA:HB2	1.48	0.95
35:BN:63:VAL:CA	35:BN:78:ARG:HG3	1.97	0.95
35:BN:62:VAL:HG23	35:BN:83:ALA:HA	1.46	0.95
39:BR:11:LYS:HB3	39:BR:11:LYS:NZ	1.81	0.95
24:BA:2845:G:H5''	40:BS:57:PHE:HB3	1.49	0.95
35:BN:122:LEU:HD12	40:BS:71:GLY:HA2	1.46	0.95
43:BV:59:VAL:HA	43:BV:63:ASP:CA	1.96	0.95
32:BK:101:LEU:HG	32:BK:102:SER:H	1.31	0.95
5:AF:157:ILE:HG13	5:AF:164:ARG:HG2	1.46	0.95
6:AG:12:CYS:CA	6:AG:19:LEU:HB2	1.95	0.95
10:AK:129:VAL:HG22	10:AK:130:GLY:H	1.31	0.95
20:AU:26:LEU:HB2	20:AU:42:ARG:HH12	1.31	0.95
53:B6:34:ARG:NH2	53:B6:42:LEU:HA	1.80	0.95
24:BA:2361:A:OP2	54:B7:28:GLY:HA2	1.66	0.95
24:BA:1966:A:H1'	24:BA:2593:U:H5'	1.48	0.95
24:BA:2805:G:C3'	24:BA:2807:G:H5''	1.95	0.95
35:BN:64:ARG:HH21	35:BN:64:ARG:HG3	1.29	0.95
35:BN:99:PHE:HA	40:BS:74:ARG:NH1	1.81	0.95
36:BO:113:LYS:HA	36:BO:129:ALA:HB1	1.49	0.95
37:BP:67:ARG:NH1	37:BP:103:MET:HB3	1.82	0.95
24:BA:751:A:H5'	43:BV:90:ARG:NH2	1.81	0.95
1:AA:328:C:H4'	1:AA:329:A:O5'	1.65	0.95
8:AI:77:ARG:HA	8:AI:80:ARG:CD	1.97	0.95
14:AO:34:ARG:HB2	14:AO:105:TYR:OH	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:41:ARG:HH22	14:AO:57:LYS:HZ2	1.02	0.95
5:AF:12:LEU:HD13	16:AQ:57:ARG:HG3	1.49	0.95
20:AU:22:VAL:HG22	20:AU:55:ARG:HH12	1.32	0.95
8:AI:49:ALA:CB	20:AU:80:PRO:HD3	1.96	0.95
23:AX:3:LYS:HD2	23:AX:14:TRP:HB2	1.46	0.95
24:BA:26:G:N1	24:BA:27:G:N2	2.14	0.95
24:BA:390:A:H5''	24:BA:391:G:OP1	1.66	0.95
24:BA:627:A:N6	24:BA:637:A:H1'	1.82	0.95
25:BB:71:C:H2'	25:BB:72:G:H5'	0.96	0.95
27:BD:5:LYS:HD2	27:BD:29:PRO:CA	1.95	0.95
28:BE:49:LEU:CD1	28:BE:50:GLY:H	1.80	0.95
29:BF:158:THR:HG21	29:BF:196:LEU:H	1.31	0.95
30:BG:138:GLN:OE1	30:BG:152:LEU:HB2	1.66	0.95
35:BN:103:ALA:HA	35:BN:106:LEU:HD23	1.49	0.95
37:BP:43:THR:HA	37:BP:94:VAL:HG12	1.49	0.95
26:BC:30:LYS:HZ2	26:BC:182:PRO:HB3	1.29	0.95
1:AA:250:A:H2	1:AA:274:A:N1	1.65	0.94
1:AA:410:G:H1'	1:AA:432:A:H61	1.29	0.94
4:AE:21:ARG:H	4:AE:21:ARG:HD2	0.82	0.94
1:AA:1081:G:OP2	7:AH:27:ARG:HD2	1.66	0.94
24:BA:1406:U:H2'	24:BA:1407:C:H6	1.31	0.94
24:BA:1820:U:C2	27:BD:202:LYS:HG2	2.02	0.94
24:BA:1860:G:H5''	26:BC:206:GLY:CA	1.96	0.94
31:BH:29:PRO:HD3	31:BH:79:VAL:HA	1.49	0.94
24:BA:142:G:C4'	44:BW:35:THR:HG21	1.96	0.94
24:BA:2120:G:H21	26:BC:167:LYS:HZ2	1.13	0.94
1:AA:1107:C:H2'	1:AA:1108:G:H5'	1.49	0.94
5:AF:147:LYS:HB2	5:AF:203:PHE:HB3	1.46	0.94
7:AH:79:GLU:HG3	7:AH:93:PRO:HD2	1.46	0.94
13:AN:80:VAL:H	13:AN:104:GLN:NE2	1.65	0.94
14:AO:44:THR:HB	14:AO:45:PRO:HD2	1.49	0.94
22:AW:51:GLU:HA	22:AW:54:LYS:CD	1.96	0.94
55:B8:1:MET:N	55:B8:33:LYS:HB2	1.82	0.94
24:BA:2307:G:N7	24:BA:2308:G:C2	2.35	0.94
24:BA:1820:U:H2'	27:BD:202:LYS:NZ	1.82	0.94
30:BG:131:TYR:CG	30:BG:132:ASN:N	2.30	0.94
31:BH:43:VAL:CG2	31:BH:52:VAL:HA	1.96	0.94
34:BM:120:LEU:HD12	34:BM:121:LYS:N	1.82	0.94
34:BM:12:ARG:HG3	34:BM:12:ARG:HH11	1.32	0.94
36:BO:72:PRO:HB3	36:BO:110:TYR:C	1.87	0.94
41:BT:92:ARG:HG2	41:BT:93:LYS:HZ3	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:212:VAL:H	26:BC:223:ARG:HE	1.14	0.94
3:AD:37:A:H2'	3:AD:38:A:C8	2.02	0.94
15:AP:104:ARG:HG2	15:AP:105:THR:HG23	1.47	0.94
24:BA:973:A:H1'	24:BA:1188:U:O4	1.67	0.94
24:BA:676:A:H2'	24:BA:677:A:H5'	1.50	0.94
24:BA:728:G:C6	24:BA:762:U:H3'	2.03	0.94
27:BD:8:PRO:O	27:BD:25:THR:HA	1.64	0.94
28:BE:149:ARG:C	28:BE:149:ARG:HD3	1.86	0.94
36:BO:123:LEU:O	36:BO:138:LEU:HG	1.67	0.94
24:BA:2393:A:C5'	36:BO:56:SER:H	1.80	0.94
37:BP:22:LYS:HB2	46:BY:79:ARG:NH2	1.81	0.94
40:BS:54:ARG:HG2	40:BS:100:TYR:CB	1.96	0.94
41:BT:88:ILE:HD13	41:BT:88:ILE:N	1.82	0.94
24:BA:2160:G:H2'	24:BA:2161:C:C6	2.02	0.94
1:AA:1206:G:H4'	5:AF:192:THR:O	1.67	0.94
1:AA:994:A:N7	1:AA:1216:G:H4'	1.83	0.94
1:AA:244:U:O2'	1:AA:245:C:OP2	1.85	0.94
1:AA:429:U:H4'	1:AA:430:A:O5'	1.67	0.94
4:AE:82:ARG:HA	4:AE:92:TYR:CE1	2.02	0.94
13:AN:81:ASP:OD1	13:AN:106:LYS:HD2	1.68	0.94
1:AA:625:G:OP1	18:AS:9:PHE:HB3	1.68	0.94
8:AI:98:LEU:HD21	20:AU:28:GLU:HA	1.46	0.94
24:BA:1085:A:H1'	24:BA:1086:A:H4'	1.46	0.94
24:BA:2570:G:H5'	24:BA:2571:C:OP2	1.67	0.94
24:BA:27:G:N1	24:BA:512:G:H2'	1.82	0.94
25:BB:17:C:H2'	25:BB:18:G:O4'	1.68	0.94
28:BE:146:THR:HB	28:BE:147:PRO:HD3	1.49	0.94
29:BF:56:GLU:O	29:BF:58:ALA:N	1.99	0.94
36:BO:51:PHE:O	36:BO:55:ARG:HG3	1.68	0.94
24:BA:636:G:N2	36:BO:75:ILE:HG23	1.83	0.94
36:BO:79:ARG:HE	36:BO:83:VAL:CG1	1.79	0.94
41:BT:59:ARG:HD2	41:BT:62:ILE:HD12	1.50	0.94
46:BY:151:HIS:HA	46:BY:170:THR:HA	1.47	0.94
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.32	0.94
15:AP:55:ARG:NH2	15:AP:56:LEU:HD21	1.81	0.94
50:B3:53:GLU:HG2	50:B3:54:GLY:H	1.31	0.94
24:BA:247:G:H1	54:B7:8:LYS:HZ3	1.12	0.94
24:BA:1275:A:C2	38:BQ:16:HIS:HA	2.02	0.94
24:BA:574:C:H41	24:BA:2054:A:C5'	1.80	0.94
24:BA:2084:C:H2'	24:BA:2085:C:H6	1.30	0.94
24:BA:2459:A:C2'	24:BA:2460:U:O4'	2.16	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:685:A:H5''	24:BA:686:G:N2	1.81	0.94
25:BB:48:A:OP1	39:BR:92:TYR:HB3	1.67	0.94
24:BA:1059:G:H2'	33:BL:74:ALA:HB2	1.49	0.94
34:BM:89:LYS:HA	34:BM:92:ALA:HB3	1.46	0.94
36:BO:111:ARG:HD2	36:BO:129:ALA:HB2	1.48	0.94
37:BP:96:VAL:HG12	37:BP:98:LYS:NZ	1.82	0.94
42:BU:27:ALA:HB1	42:BU:33:VAL:HG11	1.50	0.94
46:BY:98:MET:HG3	46:BY:100:VAL:HG22	1.48	0.94
20:AU:79:LEU:O	20:AU:79:LEU:HD13	1.65	0.94
24:BA:216:A:H2'	24:BA:217:G:C8	2.02	0.94
24:BA:576:U:H2'	24:BA:577:G:C8	2.00	0.94
24:BA:972:G:OP1	24:BA:974(A):C:H5''	1.68	0.94
31:BH:103:LEU:O	31:BH:104:GLU:HB2	1.68	0.94
34:BM:53:VAL:HA	34:BM:121:LYS:O	1.68	0.94
36:BO:96:THR:HB	36:BO:99:LEU:HD12	1.48	0.94
42:BU:23:GLU:HB2	42:BU:92:THR:O	1.67	0.94
26:BC:77:ILE:HG22	26:BC:96:GLY:HA2	1.47	0.94
1:AA:327:A:H4'	1:AA:328:C:OP1	1.64	0.94
1:AA:392:G:H5'	18:AS:12:LYS:HZ3	1.13	0.94
4:AE:25:ASN:HD22	4:AE:25:ASN:C	1.70	0.94
10:AK:4:ASP:HB2	10:AK:6:ILE:HG22	1.49	0.94
14:AO:23:LYS:O	14:AO:24:VAL:HG23	1.68	0.94
24:BA:1005:C:H2'	24:BA:1006:C:C6	2.01	0.94
24:BA:1222:C:H42	24:BA:1227:A:N6	1.64	0.94
24:BA:647:G:H4'	24:BA:2352:A:OP1	1.67	0.94
27:BD:188:GLU:H	27:BD:188:GLU:CD	1.69	0.94
35:BN:106:LEU:HD22	40:BS:39:ARG:NH2	1.83	0.94
35:BN:58:VAL:HG21	35:BN:88:ASN:HA	1.48	0.94
36:BO:93:GLY:HA3	36:BO:112:LEU:HD21	1.46	0.94
36:BO:65:ARG:HH11	36:BO:68:GLN:HE22	1.05	0.94
38:BQ:99:LYS:HA	38:BQ:112:ALA:CB	1.98	0.94
25:BB:49:C:OP1	39:BR:97:ARG:N	2.01	0.94
40:BS:105:LEU:HD12	40:BS:106:SER:H	1.33	0.94
42:BU:83:ARG:HH21	42:BU:85:LYS:HE2	1.32	0.94
45:BX:12:THR:HG23	45:BX:73:ARG:HG3	1.50	0.94
46:BY:100:VAL:HG23	46:BY:137:ILE:HD11	1.47	0.94
1:AA:678:U:H2'	1:AA:679:C:C6	2.03	0.94
6:AG:50:ARG:NH1	6:AG:52:SER:HA	1.81	0.94
15:AP:91:ARG:HB3	15:AP:98:VAL:HG22	1.47	0.94
16:AQ:24:CYS:HB2	16:AQ:40:CYS:N	1.81	0.94
18:AS:43:LYS:HG3	18:AS:48:TRP:CZ3	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:63:THR:O	21:AV:66:MET:HG2	1.67	0.94
24:BA:120:U:O2'	24:BA:121:G:H5''	1.68	0.94
24:BA:228:A:H2'	24:BA:229:A:C4'	1.97	0.94
24:BA:2312:U:H4'	30:BG:43:LEU:CD1	1.98	0.94
24:BA:2501:C:H4'	24:BA:2503:A:H1'	1.49	0.94
24:BA:2532:G:H2'	24:BA:2533:A:O4'	1.68	0.94
39:BR:20:ARG:HA	39:BR:20:ARG:HH21	1.27	0.94
46:BY:39:VAL:HG22	46:BY:44:PHE:CE2	2.03	0.94
1:AA:769:G:O2'	1:AA:770:C:H5'	1.67	0.94
4:AE:55:PHE:HA	4:AE:58:ILE:HD12	1.50	0.94
19:AT:5:VAL:HG22	19:AT:60:ILE:CA	1.98	0.94
22:AW:23:ARG:O	22:AW:26:ASN:ND2	2.01	0.94
24:BA:2612:C:O2	51:B4:4:HIS:HB2	1.68	0.94
24:BA:1188:U:H2'	24:BA:1189:A:O4'	1.65	0.94
24:BA:1834:U:H1'	24:BA:1969:A:C2	2.03	0.94
24:BA:2539:C:O2'	24:BA:2540:C:H5'	1.66	0.94
24:BA:2657:A:H62	24:BA:2664:G:H21	1.04	0.94
24:BA:609:A:C6	24:BA:609(A):G:O6	2.21	0.94
27:BD:182:LEU:CD1	27:BD:270:ILE:HD11	1.98	0.94
27:BD:206:LEU:HD13	27:BD:206:LEU:H	1.31	0.94
28:BE:13:ARG:CG	28:BE:22:PRO:HD3	1.98	0.94
29:BF:9:ILE:HD11	29:BF:122:LYS:HG3	1.50	0.94
29:BF:74:ARG:CZ	29:BF:75:HIS:HA	1.98	0.94
35:BN:97:ARG:HB3	35:BN:117:LEU:HD21	1.50	0.94
40:BS:104:ASN:HA	40:BS:108:ARG:NH2	1.83	0.94
41:BT:59:ARG:HB3	41:BT:59:ARG:NH1	1.82	0.94
45:BX:12:THR:HA	45:BX:73:ARG:NE	1.83	0.94
45:BX:74:PRO:HB3	45:BX:101:LYS:C	1.88	0.94
24:BA:2185:C:H2'	24:BA:2186:G:H8	1.33	0.94
6:AG:26:CYS:O	6:AG:31:CYS:SG	2.26	0.94
10:AK:18:ARG:HA	10:AK:18:ARG:HH11	1.30	0.94
18:AS:20:VAL:HG22	18:AS:35:LYS:HA	1.48	0.94
24:BA:1799:G:H1	27:BD:157:ARG:NH1	1.64	0.94
24:BA:1790:C:C5'	24:BA:1828:G:H1	1.81	0.94
24:BA:2897:U:H2'	24:BA:2898:U:C6	2.03	0.94
24:BA:789:A:H4'	24:BA:790:C:OP1	1.65	0.94
24:BA:943:U:OP1	24:BA:943:U:O4'	1.84	0.94
28:BE:49:LEU:HD11	28:BE:74:PRO:CB	1.98	0.94
30:BG:55:LYS:HB3	30:BG:151:ALA:HB1	1.48	0.94
33:BL:90:LYS:HZ3	33:BL:93:ARG:HH22	1.14	0.94
40:BS:110:ILE:HD13	40:BS:113:LYS:NZ	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:218:C:H5'	1:AA:466:C:N4	1.82	0.94
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.02	0.94
1:AA:979:C:H5''	1:AA:1222:G:O6	1.66	0.94
1:AA:1431:C:H5''	40:BS:110:ILE:HG23	1.49	0.94
1:AA:15:G:H2'	1:AA:16:A:C8	2.02	0.94
2:AC:34:C:C3'	2:AC:35:A:H5''	1.97	0.94
7:AH:52:PRO:O	7:AH:55:VAL:HB	1.68	0.94
24:BA:2056:G:N2	51:B4:4:HIS:CD2	2.36	0.94
24:BA:1342:A:H2'	24:BA:1345:C:H41	1.33	0.94
24:BA:1406:U:H2'	24:BA:1407:C:C6	2.03	0.94
24:BA:1343:G:H1'	24:BA:1597:A:C2	2.03	0.94
24:BA:1811:G:H2'	24:BA:1812:A:H8	1.31	0.94
24:BA:1915:U:P	24:BA:1915:U:H3'	2.08	0.94
24:BA:2051:A:C2	24:BA:2614:A:N6	2.36	0.94
24:BA:2311:A:H5''	24:BA:2312:U:H5	1.31	0.94
24:BA:612:G:H2'	24:BA:615:G:C4	2.02	0.94
24:BA:722:A:H2'	24:BA:723:G:H8	1.31	0.94
27:BD:42:GLY:H	27:BD:60:ARG:HH12	0.96	0.94
34:BM:97:ARG:HA	34:BM:100:GLU:HG2	1.50	0.94
34:BM:70:LYS:HD2	34:BM:86:PRO:HA	1.51	0.94
39:BR:17:ARG:CZ	39:BR:89:ARG:HB2	1.97	0.94
18:AS:44:THR:HG23	18:AS:45:THR:H	1.30	0.94
1:AA:1506:U:H5''	1:AA:1507:A:OP2	1.69	0.93
12:AM:32:ALA:HA	12:AM:76:ASN:HD22	1.32	0.93
14:AO:100:ILE:HD13	14:AO:100:ILE:H	1.32	0.93
1:AA:979:C:N4	16:AQ:18:VAL:HB	1.83	0.93
27:BD:27:THR:HG22	27:BD:29:PRO:CD	1.98	0.93
28:BE:13:ARG:O	28:BE:13:ARG:HD2	1.68	0.93
32:BK:38:LEU:HD13	32:BK:39:ALA:N	1.83	0.93
34:BM:97:ARG:O	34:BM:100:GLU:HB2	1.68	0.93
35:BN:60:ALA:O	35:BN:83:ALA:HB1	1.67	0.93
46:BY:152:ALA:HA	46:BY:155:LEU:HD13	1.48	0.93
46:BY:24:LEU:O	46:BY:39:VAL:CB	2.16	0.93
32:BK:132:PRO:HG3	32:BK:138:ILE:HB	1.48	0.93
26:BC:149:ILE:O	26:BC:153:ILE:HG13	1.65	0.93
1:AA:125:U:H2'	1:AA:126:G:C8	2.02	0.93
3:AD:69:C:H2'	3:AD:70:G:H8	1.30	0.93
1:AA:1047:G:C5'	16:AQ:4:LYS:HD3	1.99	0.93
18:AS:5:ARG:HH12	18:AS:24:ALA:HA	1.34	0.93
22:AW:14:LYS:N	22:AW:17:ARG:HH21	1.66	0.93
22:AW:75:ASN:O	22:AW:78:ALA:HB3	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:24:LYS:HE2	48:B1:52:ILE:HG22	1.47	0.93
24:BA:1914:C:C4	24:BA:1915:U:H5	1.87	0.93
24:BA:2345:G:N7	24:BA:2371:G:N2	2.16	0.93
24:BA:687:C:H4'	53:B6:4:THR:HG22	1.50	0.93
27:BD:7:LYS:HZ2	27:BD:91:ARG:HD2	1.33	0.93
29:BF:197:ASP:HA	29:BF:200:GLU:HG2	1.49	0.93
38:BQ:64:ARG:NH1	38:BQ:65:LEU:HB2	1.81	0.93
39:BR:76:LYS:HZ1	39:BR:77:ALA:HB2	1.32	0.93
42:BU:14:VAL:HG12	42:BU:15:GLU:H	1.33	0.93
42:BU:20:LEU:HB3	42:BU:95:LEU:HD13	1.50	0.93
41:BT:88:ILE:CG1	42:BU:52:VAL:HG22	1.98	0.93
44:BW:8:ILE:HD11	44:BW:42:ALA:HB2	1.50	0.93
24:BA:99:U:H3	45:BX:106:LEU:HD22	1.32	0.93
1:AA:1454:G:H2'	1:AA:1455:G:H8	1.34	0.93
3:AD:73:A:H2'	3:AD:74:C:H5''	1.50	0.93
24:BA:1534:G:H21	24:BA:1537:C:H41	1.15	0.93
24:BA:1826:G:C2'	24:BA:1827:C:H5'	1.98	0.93
24:BA:1841:U:H2'	24:BA:1842:G:H8	1.22	0.93
27:BD:161:THR:HG22	27:BD:196:VAL:HB	1.48	0.93
28:BE:32:PRO:HG3	28:BE:88:GLY:HA2	1.50	0.93
1:AA:1376:U:H3	1:AA:1377:A:H62	1.08	0.93
1:AA:166:G:O2'	1:AA:167:G:H5'	1.68	0.93
1:AA:922:G:H2'	1:AA:923:A:C8	2.03	0.93
10:AK:19:VAL:HG23	10:AK:21:LYS:HG2	1.49	0.93
11:AL:29:ASN:OD1	11:AL:64:THR:HA	1.69	0.93
13:AN:54:ARG:HH11	13:AN:54:ARG:HG3	1.31	0.93
50:B3:58:ARG:H	50:B3:61:ARG:NH1	1.66	0.93
24:BA:2623:G:N2	51:B4:22:HIS:CE1	2.35	0.93
24:BA:1173:G:H1'	24:BA:1177:A:N6	1.83	0.93
24:BA:1810:A:H2'	24:BA:1811:G:H5'	1.47	0.93
24:BA:263:C:H2'	24:BA:263:C:O2	1.66	0.93
24:BA:388:G:C2'	24:BA:390:A:N7	2.29	0.93
24:BA:853:G:H2'	24:BA:854:G:H8	1.30	0.93
25:BB:42:C:N3	30:BG:93:THR:HB	1.84	0.93
34:BM:46:VAL:HG11	34:BM:119:ARG:NH2	1.81	0.93
40:BS:87:ASP:OD2	40:BS:89:VAL:HG23	1.68	0.93
46:BY:24:LEU:CD2	46:BY:25:PRO:HD2	1.97	0.93
24:BA:2120:G:H21	26:BC:167:LYS:NZ	1.65	0.93
26:BC:153:ILE:HA	26:BC:156:ILE:HD12	1.49	0.93
27:BD:273:ARG:HH11	27:BD:273:ARG:HG3	1.28	0.93
1:AA:966:G:N2	2:AC:34:C:H5'	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:115:LEU:O	4:AE:118:LEU:HB3	1.67	0.93
8:AI:76:ALA:HB1	8:AI:80:ARG:NH2	1.81	0.93
9:AJ:104:LEU:CD2	9:AJ:134:ALA:HB1	1.98	0.93
11:AL:118:LYS:HB2	11:AL:121:ARG:HB2	1.49	0.93
12:AM:79:ARG:HA	12:AM:79:ARG:HH11	1.32	0.93
17:AR:31:LEU:HA	17:AR:34:LEU:HD23	1.49	0.93
22:AW:49:ALA:HB3	22:AW:99:LEU:HG	1.51	0.93
24:BA:2058:A:H2'	24:BA:2059:A:H8	1.30	0.93
24:BA:2296:U:H1'	24:BA:2335:A:H61	1.29	0.93
24:BA:2415:G:C5'	36:BO:61:ARG:HB2	1.97	0.93
24:BA:859:G:O2'	24:BA:860:U:H5''	1.69	0.93
28:BE:46:ALA:HB2	28:BE:85:ASN:HD21	1.30	0.93
36:BO:113:LYS:HA	36:BO:129:ALA:HB3	1.49	0.93
36:BO:13:ASN:CG	36:BO:14:LYS:H	1.70	0.93
24:BA:2183:C:H2'	24:BA:2184:G:C8	2.02	0.93
2:AC:40:C:H2'	2:AC:41:C:H5'	1.50	0.93
9:AJ:84:ASN:C	9:AJ:85:TYR:HD2	1.71	0.93
1:AA:1320:C:H1'	21:AV:73:GLU:HG2	1.48	0.93
1:AA:192:U:C1'	22:AW:103:GLY:HA2	1.97	0.93
48:B1:44:LYS:HG3	48:B1:48:LEU:HD22	1.50	0.93
24:BA:1968:G:HO2'	24:BA:1969:A:H8	0.94	0.93
24:BA:2208:U:C2'	24:BA:2209:C:H5'	1.98	0.93
24:BA:2652:C:H2'	24:BA:2653:U:C6	2.04	0.93
24:BA:299:A:O2'	24:BA:319:C:H4'	1.69	0.93
24:BA:917:A:H2'	24:BA:918:A:O4'	1.67	0.93
28:BE:133:LYS:HB3	28:BE:137:HIS:CE1	2.03	0.93
31:BH:87:LEU:H	31:BH:132:ARG:CB	1.81	0.93
31:BH:8:PRO:HA	31:BH:51:ARG:HH12	1.28	0.93
40:BS:21:GLU:HA	40:BS:21:GLU:OE1	1.68	0.93
40:BS:80:SER:HB3	40:BS:81:PRO:HD3	1.48	0.93
41:BT:46:ALA:O	41:BT:50:ARG:HD3	1.68	0.93
43:BV:90:ARG:N	43:BV:90:ARG:HH21	1.65	0.93
46:BY:46:LYS:O	46:BY:49:ARG:HB2	1.68	0.93
3:AD:23:A:H2'	3:AD:24:G:C8	2.04	0.93
26:BC:19:ILE:HG23	26:BC:223:ARG:HG2	1.49	0.93
1:AA:84:U:H2'	1:AA:85:U:O4'	1.68	0.93
4:AE:88:ALA:HB2	4:AE:219:VAL:CG2	1.99	0.93
6:AG:119:GLN:HG3	6:AG:123:HIS:CD2	2.03	0.93
9:AJ:72:ARG:HB3	9:AJ:72:ARG:HH11	1.33	0.93
10:AK:114:THR:HG23	10:AK:119:LEU:HD23	1.47	0.93
10:AK:14:ARG:O	10:AK:17:THR:HB	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:13:LEU:H	22:AW:13:LEU:HD12	1.33	0.93
51:B4:40:LYS:HE3	51:B4:44:THR:N	1.84	0.93
24:BA:2010:G:H2'	24:BA:2011:U:H5'	1.47	0.93
24:BA:2557:G:H2'	24:BA:2558:C:C6	2.04	0.93
24:BA:2559:C:O2'	24:BA:2560:C:H5'	1.68	0.93
24:BA:612:G:H4'	24:BA:616:A:C6	2.03	0.93
24:BA:1820:U:C2'	27:BD:202:LYS:HG3	1.99	0.93
30:BG:4:ASP:HB3	30:BG:104:GLU:HG2	1.48	0.93
30:BG:131:TYR:HB2	30:BG:159:VAL:HG22	1.50	0.93
31:BH:149:ARG:HA	31:BH:162:ILE:HD13	1.51	0.93
33:BL:132:ARG:HG2	33:BL:137:GLU:HA	1.47	0.93
34:BM:35:ARG:CD	34:BM:38:HIS:HB3	1.99	0.93
34:BM:39:ARG:HG2	34:BM:40:PRO:HD2	1.51	0.93
34:BM:6:PRO:HA	34:BM:41:ASP:HB3	1.51	0.93
35:BN:47:ILE:CD1	35:BN:52:VAL:HG13	1.98	0.93
24:BA:2000:G:P	38:BQ:2:ARG:HA	2.08	0.93
42:BU:43:GLU:HB2	42:BU:48:GLY:HA2	1.48	0.93
45:BX:50:ARG:HB2	45:BX:54:LYS:HE3	1.49	0.93
46:BY:16:SER:HA	46:BY:19:ARG:HD2	1.50	0.93
32:BK:132:PRO:HD2	32:BK:137:PRO:HA	1.46	0.93
1:AA:191(C):G:H2'	1:AA:191(D):U:C6	2.03	0.93
1:AA:1124:G:H21	1:AA:1126:U:H3	1.09	0.93
1:AA:621:A:H2'	1:AA:622:A:H8	1.34	0.93
1:AA:966:G:H21	2:AC:34:C:H5'	1.32	0.93
1:AA:979:C:H2'	1:AA:980:C:H5'	1.49	0.93
5:AF:156:ARG:HB2	5:AF:196:LEU:HD13	1.51	0.93
51:B4:10:LYS:HD2	51:B4:15:ARG:HH21	1.26	0.93
24:BA:1079:C:H41	24:BA:1088:A:H5'	1.30	0.93
24:BA:1819:A:H5''	27:BD:178:PRO:CG	1.99	0.93
24:BA:239:U:O2'	24:BA:240:G:H5'	1.69	0.93
24:BA:699:A:H2'	24:BA:700:G:H5'	1.49	0.93
34:BM:66:LYS:HA	34:BM:87:LEU:HD11	1.51	0.93
35:BN:20:MET:HE2	35:BN:44:LYS:HD2	1.50	0.93
37:BP:56:ARG:NH1	37:BP:57:HIS:HA	1.83	0.93
24:BA:1223:C:N3	42:BU:88:ARG:NH2	2.16	0.93
44:BW:25:LYS:HG2	44:BW:82:GLN:CG	1.98	0.93
3:AD:56:C:H5'	26:BC:133:PRO:HG3	1.47	0.93
1:AA:667:G:N2	1:AA:740:U:H1'	1.82	0.93
4:AE:196:LEU:HD12	4:AE:197:VAL:N	1.84	0.93
4:AE:47:THR:O	4:AE:51:LEU:HG	1.69	0.93
13:AN:102:GLY:HA2	13:AN:105:VAL:CG2	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:57:GLU:HA	50:B3:61:ARG:NH1	1.83	0.93
24:BA:469:G:H22	53:B6:40:TRP:HZ2	1.02	0.93
24:BA:2213:U:H5'	24:BA:2215:G:C5	2.03	0.93
24:BA:2581:G:H4'	24:BA:2582:G:N7	1.83	0.93
24:BA:324:A:N6	24:BA:339:U:H1'	1.83	0.93
25:BB:47:C:H2'	25:BB:48:A:H5'	1.47	0.93
25:BB:27:C:N4	25:BB:56:G:H1	1.67	0.93
33:BL:90:LYS:HZ3	33:BL:93:ARG:NH2	1.67	0.93
36:BO:73:GLY:CA	36:BO:111:ARG:HG2	1.99	0.93
37:BP:42:ILE:O	37:BP:94:VAL:HB	1.69	0.93
40:BS:57:PHE:HA	40:BS:61:PHE:CD2	2.03	0.93
40:BS:45:PHE:CE1	40:BS:87:ASP:HB2	2.04	0.93
3:AD:15:G:N1	3:AD:48:C:N4	2.17	0.93
1:AA:1202:G:C1'	16:AQ:29:ARG:HD2	1.99	0.93
1:AA:275:G:O3'	19:AT:14:LYS:HD3	1.68	0.93
1:AA:734:G:H2'	1:AA:735:C:C6	2.03	0.93
6:AG:150:GLU:HA	6:AG:153:ARG:CZ	1.99	0.93
6:AG:20:TYR:HA	6:AG:26:CYS:SG	2.08	0.93
8:AI:30:LEU:HA	8:AI:75:LEU:CD1	1.99	0.93
20:AU:74:ARG:HG2	20:AU:81:PHE:HB3	1.50	0.93
24:BA:2021:C:OP2	51:B4:11:THR:HB	1.69	0.93
54:B7:34:TRP:C	54:B7:36:LYS:N	2.16	0.93
24:BA:2052:G:N9	28:BE:150:VAL:HG23	1.83	0.93
24:BA:531:C:O2	24:BA:531:C:H2'	1.67	0.93
24:BA:575:A:O2'	24:BA:576:U:H5'	1.69	0.93
24:BA:613:U:H5'	24:BA:614:U:C4	2.04	0.93
27:BD:42:GLY:H	27:BD:60:ARG:NH1	1.66	0.93
27:BD:80:ALA:HB3	27:BD:94:LEU:O	1.69	0.93
29:BF:168:ARG:HH21	29:BF:169:ASN:N	1.64	0.93
29:BF:197:ASP:HA	29:BF:200:GLU:CG	1.98	0.93
30:BG:49:ASP:HA	30:BG:53:LEU:CD2	1.98	0.93
31:BH:153:LYS:HB2	31:BH:162:ILE:HG23	1.50	0.93
41:BT:55:ARG:O	41:BT:58:ARG:HG2	1.69	0.93
43:BV:41:LYS:HZ3	43:BV:41:LYS:HB3	1.33	0.93
46:BY:127:LYS:HB3	46:BY:162:GLU:O	1.69	0.93
25:BB:73:A:N1	46:BY:29:TYR:HE1	1.66	0.93
46:BY:6:LYS:HD3	46:BY:35:ARG:HD3	1.50	0.93
26:BC:62:VAL:HG11	26:BC:195:ALA:HB2	1.50	0.93
4:AE:166:ASP:O	4:AE:169:LYS:HB3	1.69	0.92
10:AK:97:VAL:HG22	10:AK:98:LYS:H	1.33	0.92
24:BA:2352:A:H2'	24:BA:2353:G:O4'	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2447:G:C6	24:BA:2500:U:N3	2.36	0.92
24:BA:2649:U:H2'	24:BA:2650:U:C6	2.04	0.92
27:BD:159:ALA:C	27:BD:196:VAL:HG21	1.89	0.92
24:BA:2596:U:C2'	27:BD:242:ARG:CZ	2.48	0.92
27:BD:256:GLY:O	27:BD:257:LEU:HG	1.68	0.92
30:BG:79:ASN:CG	30:BG:82:LEU:HD21	1.90	0.92
31:BH:82:GLY:O	31:BH:83:TYR:HB2	1.67	0.92
32:BK:7:GLU:N	32:BK:8:PRO:HD3	1.83	0.92
33:BL:11:GLN:O	33:BL:12:LEU:HD23	1.69	0.92
35:BN:97:ARG:HE	35:BN:98:VAL:H	1.08	0.92
36:BO:78:PRO:O	36:BO:81:GLN:HB2	1.69	0.92
37:BP:75:THR:HG21	37:BP:88:GLY:O	1.69	0.92
41:BT:53:ARG:HB2	41:BT:53:ARG:NH1	1.84	0.92
24:BA:1154:G:OP1	41:BT:62:ILE:HD11	1.68	0.92
45:BX:33:LYS:HB3	45:BX:35:TYR:CE2	2.04	0.92
46:BY:104:PHE:HA	46:BY:139:VAL:O	1.69	0.92
25:BB:104:A:H1'	46:BY:29:TYR:OH	1.69	0.92
46:BY:39:VAL:HA	46:BY:44:PHE:CE1	2.04	0.92
47:BZ:17:GLN:NE2	47:BZ:18:ALA:H	1.67	0.92
1:AA:390:C:H2'	1:AA:391:G:C8	2.03	0.92
1:AA:579:G:C2'	1:AA:580:U:H5'	1.99	0.92
9:AJ:69:VAL:HG21	9:AJ:104:LEU:HD21	1.51	0.92
10:AK:112:LEU:HA	10:AK:134:ILE:HG13	1.49	0.92
15:AP:91:ARG:HH22	15:AP:103:THR:HG21	1.34	0.92
17:AR:7:GLU:O	17:AR:10:LYS:HG3	1.68	0.92
48:B1:30:LEU:O	48:B1:33:GLN:HB2	1.69	0.92
24:BA:1188:U:O2'	24:BA:1189:A:H5'	1.69	0.92
24:BA:2576:G:OP1	24:BA:2577:A:OP1	1.88	0.92
24:BA:2075:U:H6	24:BA:2597:G:H22	1.13	0.92
24:BA:2807:G:N3	24:BA:2807:G:H2'	1.82	0.92
24:BA:563:G:N2	24:BA:578:A:N1	2.17	0.92
24:BA:638:G:H2'	24:BA:639:U:H5'	1.48	0.92
27:BD:261:LYS:C	27:BD:263:ARG:H	1.69	0.92
24:BA:1814:G:OP1	27:BD:43:ARG:HB3	1.69	0.92
36:BO:76:LYS:HE3	36:BO:99:LEU:HD13	1.50	0.92
46:BY:24:LEU:HD23	46:BY:25:PRO:CD	1.98	0.92
32:BK:77:LEU:HG	32:BK:141:LYS:O	1.69	0.92
1:AA:1321:C:N3	21:AV:37:ARG:NH1	2.16	0.92
1:AA:559:A:H4'	1:AA:560:U:H5'	0.93	0.92
1:AA:959:A:H3'	1:AA:960:U:H5''	1.51	0.92
2:AC:60:U:H4'	2:AC:61:C:OP2	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:55:PHE:HE2	4:AE:218:ALA:HA	1.32	0.92
6:AG:61:LYS:HG3	6:AG:207:TYR:HE1	1.33	0.92
9:AJ:155:ARG:HA	9:AJ:155:ARG:NE	1.85	0.92
13:AN:21:ILE:HG22	13:AN:30:VAL:HG22	1.52	0.92
15:AP:97:PRO:HB2	15:AP:101:GLN:HB2	1.48	0.92
15:AP:24:GLY:HA3	15:AP:66:LEU:HB2	1.49	0.92
15:AP:23:TYR:HB3	15:AP:67:GLU:HA	1.50	0.92
18:AS:3:LYS:HE2	18:AS:24:ALA:HB2	1.51	0.92
24:BA:1341:U:H2'	24:BA:1341:U:O2	1.68	0.92
24:BA:1542:G:H2'	24:BA:1543:A:C5	2.04	0.92
24:BA:1913:A:H1'	24:BA:1918:A:H61	1.33	0.92
24:BA:2305:A:H3'	24:BA:2306:C:H5''	1.50	0.92
25:BB:48:A:H2'	25:BB:49:C:C6	2.04	0.92
34:BM:34:LEU:C	34:BM:49:GLY:HA2	1.90	0.92
37:BP:99:PRO:O	37:BP:101:ARG:HD3	1.68	0.92
37:BP:85:LYS:HE2	37:BP:88:GLY:HA3	1.50	0.92
40:BS:103:ARG:HH21	40:BS:103:ARG:HG3	1.31	0.92
44:BW:27:THR:CB	44:BW:80:ILE:HD12	1.98	0.92
1:AA:571:U:H3'	1:AA:572:A:H5''	0.95	0.92
4:AE:42:ILE:HG12	4:AE:43:ASP:H	1.33	0.92
4:AE:55:PHE:HA	4:AE:58:ILE:CD1	1.98	0.92
5:AF:30:ARG:HH12	5:AF:31:HIS:HB2	1.31	0.92
6:AG:132:ARG:HH11	6:AG:132:ARG:HG2	1.32	0.92
6:AG:18:LYS:HA	6:AG:33:MET:HE2	1.48	0.92
9:AJ:36:LYS:HB2	9:AJ:36:LYS:HZ2	1.34	0.92
12:AM:24:VAL:HG22	12:AM:72:VAL:HG13	1.52	0.92
13:AN:73:MET:SD	13:AN:103:LEU:HD13	2.09	0.92
22:AW:33:ILE:HD13	22:AW:63:ILE:HA	1.52	0.92
24:BA:2742:C:C5'	55:B8:35:ARG:HH12	1.82	0.92
24:BA:1448:G:H4'	24:BA:1543:A:C6	2.05	0.92
24:BA:1789:A:H4'	27:BD:222:ARG:NE	1.83	0.92
24:BA:1809:A:OP1	24:BA:1809:A:H4'	1.68	0.92
24:BA:1943:U:H4'	24:BA:1944:U:O5'	1.67	0.92
24:BA:1950:G:N7	24:BA:1951:U:C5	2.38	0.92
24:BA:2864:G:H2'	24:BA:2865:U:C6	2.04	0.92
24:BA:479:A:H1'	24:BA:480:A:C8	2.04	0.92
27:BD:181:GLU:CD	27:BD:272:ALA:HA	1.88	0.92
29:BF:201:VAL:HA	29:BF:204:ASN:HD21	1.32	0.92
30:BG:53:LEU:CG	30:BG:72:ARG:HD3	2.00	0.92
34:BM:69:GLN:HE22	34:BM:87:LEU:HD22	1.34	0.92
43:BV:25:ARG:HH21	43:BV:74:ALA:H	0.96	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:125:GLU:HB2	32:BK:143:SER:HA	0.93	0.92
24:BA:1416:G:N3	24:BA:1583:A:N6	2.18	0.92
1:AA:27:G:N2	1:AA:557:G:H1'	1.84	0.92
1:AA:383:A:H2'	1:AA:384:G:H5'	1.47	0.92
12:AM:8:LEU:HD22	12:AM:94:VAL:HG12	1.47	0.92
13:AN:32:ILE:HG22	13:AN:40:ILE:HD11	1.49	0.92
16:AQ:22:THR:HG21	16:AQ:33:VAL:O	1.70	0.92
52:B5:20:ASN:HD22	52:B5:41:PRO:HB2	0.78	0.92
24:BA:1204:A:N6	36:BO:7:ARG:HH11	1.68	0.92
24:BA:142:G:H4'	44:BW:35:THR:CG2	1.99	0.92
24:BA:1508:A:H5''	24:BA:1510:A:N7	1.84	0.92
24:BA:1519:G:H3'	24:BA:1520:U:O4'	1.68	0.92
24:BA:980:A:H2	24:BA:2038:G:O4'	1.53	0.92
25:BB:27:C:N4	25:BB:56:G:N1	2.16	0.92
27:BD:142:VAL:O	27:BD:163:ALA:HB3	1.69	0.92
30:BG:103:LEU:O	30:BG:107:LEU:HB2	1.68	0.92
30:BG:51:ARG:HD2	30:BG:51:ARG:H	1.34	0.92
30:BG:5:VAL:HG12	30:BG:9:ARG:NH1	1.85	0.92
35:BN:7:TYR:HB3	35:BN:18:LYS:HZ2	1.25	0.92
37:BP:42:ILE:HD13	37:BP:43:THR:N	1.84	0.92
38:BQ:107:ASP:OD1	38:BQ:109:ALA:HB2	1.70	0.92
42:BU:7:THR:HG23	42:BU:11:GLN:NE2	1.84	0.92
43:BV:90:ARG:HH21	43:BV:90:ARG:H	1.07	0.92
47:BZ:44:ARG:HG2	47:BZ:77:ARG:HG3	1.52	0.92
24:BA:2112:G:H5''	24:BA:2113:U:OP2	1.67	0.92
6:AG:170:VAL:HG23	6:AG:176:LEU:HB3	1.51	0.92
19:AT:91:ARG:HA	19:AT:94:ASN:ND2	1.85	0.92
48:B1:24:LYS:HG2	48:B1:52:ILE:HG21	1.51	0.92
51:B4:51:TYR:HD1	51:B4:54:GLY:H	1.10	0.92
52:B5:22:ALA:HB1	52:B5:39:TYR:HE2	1.33	0.92
24:BA:1321:A:O3'	43:BV:11:ARG:NH1	2.02	0.92
24:BA:2491:U:C6	24:BA:2491:U:C3'	2.50	0.92
24:BA:2491:U:C6	24:BA:2492:U:C5'	2.52	0.92
24:BA:455:C:OP1	24:BA:472:A:N1	2.01	0.92
24:BA:961:C:N4	24:BA:2031:A:N3	2.17	0.92
33:BL:98:ARG:HB3	33:BL:139:VAL:HB	1.48	0.92
37:BP:41:TRP:HB3	37:BP:94:VAL:CG2	1.99	0.92
37:BP:51:ARG:O	37:BP:55:VAL:HG23	1.69	0.92
45:BX:28:LYS:HE2	45:BX:28:LYS:H	1.34	0.92
26:BC:45:ALA:HB1	26:BC:211:SER:O	1.68	0.92
4:AE:15:VAL:HG23	4:AE:16:HIS:ND1	1.85	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:222:ILE:CD1	4:AE:226:ARG:HH21	1.82	0.92
8:AI:76:ALA:HA	8:AI:79:LEU:HD11	1.51	0.92
12:AM:24:VAL:HG22	12:AM:34:VAL:HG11	1.50	0.92
12:AM:3:LYS:HE3	12:AM:77:PRO:HD3	1.52	0.92
15:AP:23:TYR:HD2	15:AP:70:LEU:HD13	1.34	0.92
20:AU:70:ILE:O	20:AU:74:ARG:HD2	1.70	0.92
24:BA:176:G:H2'	24:BA:177:G:O4'	1.67	0.92
24:BA:2286:A:H62	52:B5:32:ASN:N	1.68	0.92
24:BA:292:C:H2'	24:BA:293:U:N3	1.85	0.92
24:BA:602:G:O3'	24:BA:603:A:H4'	1.65	0.92
24:BA:803:U:C2'	24:BA:804:A:H5'	2.00	0.92
24:BA:861:A:H2'	24:BA:862:G:C5'	2.00	0.92
24:BA:1819:A:H5''	27:BD:178:PRO:HG3	1.50	0.92
27:BD:7:LYS:NZ	27:BD:91:ARG:NH1	2.18	0.92
29:BF:128:ALA:O	29:BF:129:PHE:HB2	1.67	0.92
29:BF:142:TRP:O	29:BF:145:GLU:HG2	1.70	0.92
24:BA:2305:A:O2'	30:BG:136:ARG:HA	1.68	0.92
32:BK:32:PRO:HG2	32:BK:33:ARG:N	1.83	0.92
35:BN:24:VAL:HG23	35:BN:26:LYS:HG2	1.51	0.92
24:BA:1665:A:H5'	35:BN:66:LYS:HB2	1.51	0.92
36:BO:63:PRO:HB2	36:BO:64:LYS:HE2	1.51	0.92
36:BO:88:LEU:HG	36:BO:124:LYS:CE	1.99	0.92
42:BU:50:PRO:HG2	42:BU:53:GLU:CD	1.90	0.92
43:BV:11:ARG:H	43:BV:11:ARG:HH21	1.18	0.92
1:AA:1320:C:H1'	21:AV:73:GLU:CG	2.00	0.92
1:AA:1329:A:OP1	15:AP:29:ARG:HG2	1.70	0.92
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.35	0.92
1:AA:399:G:H2'	1:AA:400:C:H6	1.29	0.92
1:AA:652:U:H1'	1:AA:653:A:H2	1.35	0.92
6:AG:20:TYR:N	6:AG:33:MET:SD	2.43	0.92
9:AJ:49:ILE:HD13	9:AJ:121:ALA:HB2	1.52	0.92
17:AR:39:LEU:HD23	17:AR:40:SER:N	1.84	0.92
21:AV:13:ASP:HA	21:AV:16:LEU:HD22	1.49	0.92
24:BA:1521:G:H3'	24:BA:1522:G:H5'	1.49	0.92
24:BA:1857:G:N2	24:BA:1884:A:H61	1.67	0.92
24:BA:221:A:O2'	24:BA:222:A:OP2	1.88	0.92
24:BA:2733:A:H2'	24:BA:2734:A:O4'	1.70	0.92
24:BA:2734:A:H1'	28:BE:204:ALA:HB2	1.49	0.92
24:BA:637:A:H2	24:BA:651:G:H4'	1.32	0.92
24:BA:700:G:H22	24:BA:733:G:H1'	1.32	0.92
40:BS:111:ARG:HH11	40:BS:111:ARG:H	1.07	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:40:LYS:HA	44:BW:51:VAL:HG11	1.50	0.92
44:BW:84:ALA:HB3	44:BW:85:PRO:HD3	1.51	0.92
26:BC:14:VAL:HG12	26:BC:16:PRO:HD3	1.52	0.92
1:AA:1408:A:C2	1:AA:1494:G:H1'	2.05	0.92
2:AC:17:C:H5'	2:AC:18:G:H5''	1.52	0.92
2:AC:40:C:H2'	2:AC:41:C:C5'	1.99	0.92
6:AG:61:LYS:HG3	6:AG:207:TYR:CE1	2.04	0.92
13:AN:101:SER:O	13:AN:103:LEU:HG	1.70	0.92
13:AN:44:SER:O	13:AN:48:ILE:HG12	1.70	0.92
17:AR:16:ALA:HA	17:AR:21:ASP:OD1	1.69	0.92
18:AS:20:VAL:HG13	18:AS:34:GLU:O	1.69	0.92
20:AU:43:PHE:HA	20:AU:51:LEU:HD22	1.49	0.92
24:BA:1944:U:C1'	24:BA:1955:U:H1'	1.98	0.92
24:BA:2519:U:H5''	24:BA:2520:C:OP1	1.67	0.92
24:BA:429:A:H2'	24:BA:430:G:C8	2.05	0.92
24:BA:58:G:H1'	24:BA:70:G:N2	1.85	0.92
24:BA:614:U:H3'	24:BA:615:G:C4'	2.00	0.92
27:BD:92:ILE:CD1	27:BD:104:TYR:HD1	1.83	0.92
27:BD:127:VAL:HA	27:BD:193:VAL:CG1	2.00	0.92
27:BD:217:ARG:HG3	27:BD:218:ARG:H	1.34	0.92
28:BE:4:ILE:HG13	28:BE:27:LEU:HD13	1.48	0.92
29:BF:6:VAL:N	29:BF:20:LEU:HD12	1.84	0.92
31:BH:94:TYR:C	31:BH:95:ARG:HD2	1.89	0.92
24:BA:1649:G:N2	38:BQ:107:ASP:HB2	1.83	0.92
24:BA:2000:G:OP2	38:BQ:2:ARG:HG2	1.70	0.92
38:BQ:38:VAL:HB	38:BQ:39:PRO:HD3	1.52	0.92
43:BV:41:LYS:NZ	43:BV:41:LYS:HB3	1.85	0.92
47:BZ:46:LYS:HG2	47:BZ:77:ARG:O	1.70	0.92
24:BA:2125:G:H21	24:BA:2173:A:H62	1.13	0.92
1:AA:371:G:O2'	1:AA:372:C:H5'	1.69	0.92
1:AA:872:A:O2'	1:AA:873:A:H3'	1.69	0.92
6:AG:57:ARG:HB3	6:AG:206:PHE:HB2	1.51	0.92
17:AR:34:LEU:HG	17:AR:35:ARG:N	1.81	0.92
13:AN:110:ASP:HB3	20:AU:85:LEU:HB3	1.50	0.92
21:AV:19:VAL:HG21	21:AV:43:GLU:OE2	1.70	0.92
50:B3:58:ARG:H	50:B3:61:ARG:HH11	0.93	0.92
50:B3:58:ARG:N	50:B3:61:ARG:HH11	1.67	0.92
24:BA:1378:A:C2	24:BA:1380:G:H1'	2.05	0.92
24:BA:1617:C:H4'	24:BA:1617:C:OP2	1.68	0.92
24:BA:1812:A:H2'	24:BA:1813:G:O4'	1.68	0.92
24:BA:835:A:O4'	24:BA:2358:G:H1'	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2390:U:O2'	24:BA:2391:G:H5'	1.70	0.92
24:BA:546:C:H2'	24:BA:547:A:C8	2.04	0.92
24:BA:977:G:O2'	24:BA:978:G:H5'	1.69	0.92
29:BF:9:ILE:CG1	29:BF:124:LEU:HB2	2.00	0.92
31:BH:132:ARG:N	31:BH:132:ARG:HD3	1.85	0.92
34:BM:89:LYS:H	34:BM:89:LYS:HZ1	1.17	0.92
36:BO:112:LEU:HG	36:BO:128:HIS:HE1	1.34	0.92
36:BO:18:ARG:HD3	36:BO:20:GLY:H	1.33	0.92
36:BO:49:ARG:O	36:BO:52:GLU:HG2	1.69	0.92
38:BQ:103:ARG:HB2	38:BQ:108:GLY:HA2	1.51	0.92
40:BS:53:ARG:HH22	40:BS:102:ILE:H	1.04	0.92
41:BT:33:ARG:NH1	41:BT:33:ARG:HB2	1.85	0.92
1:AA:1117:G:H5'	1:AA:1118:C:OP2	1.70	0.91
6:AG:12:CYS:HA	6:AG:19:LEU:CB	2.00	0.91
9:AJ:70:LYS:HA	9:AJ:100:ALA:HB2	1.49	0.91
9:AJ:37:ASN:CG	9:AJ:38:LEU:H	1.71	0.91
9:AJ:75:VAL:HA	9:AJ:89:MET:HE1	1.50	0.91
50:B3:56:VAL:HG12	50:B3:57:GLU:N	1.80	0.91
24:BA:179:G:H5'	53:B6:32:LYS:HZ3	1.32	0.91
24:BA:1298:C:C1'	24:BA:1302:A:N7	2.30	0.91
24:BA:1803:A:H4'	27:BD:257:LEU:CD1	1.98	0.91
24:BA:1856:G:H2'	24:BA:1857:G:H5'	1.52	0.91
24:BA:1999:C:H2'	24:BA:2000:G:O5'	1.70	0.91
24:BA:2582:G:N2	24:BA:2583:G:H1'	1.85	0.91
24:BA:2712:U:H2'	24:BA:2712(A):A:H5''	1.50	0.91
24:BA:324:A:H62	24:BA:339:U:H1'	1.33	0.91
24:BA:603:A:N6	24:BA:624:C:N4	2.18	0.91
24:BA:623:G:P	36:BO:105:LEU:HD21	2.09	0.91
24:BA:64:A:O2'	24:BA:65:C:H5'	1.67	0.91
27:BD:196:VAL:HG12	27:BD:198:ASN:H	1.35	0.91
28:BE:8:LYS:HD2	40:BS:3:ARG:HG3	1.51	0.91
29:BF:27:GLU:HG3	29:BF:116:ASP:HB2	1.52	0.91
29:BF:194:MET:SD	29:BF:200:GLU:HG2	2.09	0.91
30:BG:130:ASN:HA	30:BG:161:THR:HG23	1.49	0.91
32:BK:2:LYS:HD2	32:BK:39:ALA:CB	1.99	0.91
39:BR:11:LYS:HZ3	39:BR:11:LYS:HB3	1.32	0.91
46:BY:116:VAL:HG21	46:BY:145:GLU:HG2	1.52	0.91
1:AA:1313:U:C5	21:AV:4:SER:HB2	2.04	0.91
1:AA:405:U:H3'	1:AA:406:G:H5'	1.52	0.91
10:AK:81:HIS:HB3	10:AK:138:TRP:O	1.69	0.91
10:AK:9:MET:HG2	10:AK:13:ILE:CD1	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:19:LEU:HD13	48:B1:20:VAL:H	1.34	0.91
51:B4:40:LYS:HE3	51:B4:44:THR:O	1.70	0.91
24:BA:1326:U:H2'	24:BA:1327:C:H5'	1.48	0.91
24:BA:2226:C:H1'	27:BD:262:ARG:NH1	1.85	0.91
24:BA:2555:U:H3'	24:BA:2555:U:C6	2.04	0.91
24:BA:2675:A:H5'	35:BN:29:ASN:HB3	1.52	0.91
24:BA:751:A:O4'	43:BV:90:ARG:HD3	1.68	0.91
27:BD:44:ASN:ND2	27:BD:218:ARG:HH12	1.69	0.91
29:BF:74:ARG:NH1	29:BF:75:HIS:HA	1.85	0.91
31:BH:7:LEU:H	31:BH:8:PRO:CD	1.83	0.91
31:BH:89:ILE:HD12	31:BH:90:LYS:N	1.83	0.91
24:BA:2093:G:H4'	32:BK:25:TYR:HA	1.51	0.91
33:BL:10:LEU:HD23	33:BL:55:VAL:O	1.70	0.91
35:BN:18:LYS:NZ	35:BN:44:LYS:NZ	2.18	0.91
35:BN:15:GLY:CA	35:BN:47:ILE:HB	1.99	0.91
36:BO:131:SER:O	36:BO:134:ALA:HB3	1.68	0.91
38:BQ:20:LEU:HD21	38:BQ:24:GLN:HG3	1.53	0.91
43:BV:36:LEU:HG	43:BV:51:LEU:HD21	1.51	0.91
43:BV:76:VAL:HG22	43:BV:77:ASP:H	1.35	0.91
45:BX:86:ARG:HB3	45:BX:86:ARG:HH21	1.35	0.91
24:BA:2295:C:H1'	24:BA:2338:G:N2	1.85	0.91
12:AM:12:ASP:HB3	12:AM:15:THR:HG22	1.52	0.91
15:AP:34:LEU:HD23	15:AP:39:ILE:HG13	1.51	0.91
49:B2:45:GLY:HA2	49:B2:48:GLU:CD	1.90	0.91
24:BA:1504:C:H2'	24:BA:1505:C:C6	2.06	0.91
24:BA:1663:C:C2'	24:BA:1664:A:N3	2.34	0.91
24:BA:2485:G:O2'	24:BA:2486:G:H5'	1.70	0.91
24:BA:477:A:H2'	24:BA:478:A:C8	2.05	0.91
30:BG:101:ILE:O	30:BG:101:ILE:HD13	1.70	0.91
30:BG:130:ASN:ND2	30:BG:161:THR:H	1.67	0.91
31:BH:35:VAL:HB	31:BH:72:ILE:CD1	2.00	0.91
35:BN:25:LEU:HD22	35:BN:38:VAL:O	1.69	0.91
37:BP:51:ARG:HG3	37:BP:52:VAL:H	1.33	0.91
39:BR:17:ARG:NE	39:BR:89:ARG:HB2	1.85	0.91
24:BA:2153:G:H2'	24:BA:2154:G:O4'	1.71	0.91
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.05	0.91
1:AA:482:A:H2	1:AA:483:C:O4'	1.54	0.91
1:AA:859:A:H2'	1:AA:860:A:O4'	1.70	0.91
1:AA:978:A:N6	1:AA:1361:G:H22	1.68	0.91
7:AH:37:ARG:HA	7:AH:112:LEU:O	1.71	0.91
10:AK:22:GLU:CA	10:AK:63:LEU:HD11	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:538:G:H5''	14:AO:114:LYS:HD3	1.53	0.91
15:AP:48:LEU:CD2	15:AP:52:GLU:HB2	2.00	0.91
15:AP:48:LEU:HD13	15:AP:53:VAL:HG22	1.49	0.91
22:AW:49:ALA:CB	22:AW:99:LEU:HG	2.00	0.91
24:BA:1913:A:H2	24:BA:1917:U:C5	1.88	0.91
24:BA:2576:G:H4'	24:BA:2577:A:C5'	1.99	0.91
24:BA:270(A):A:N6	24:BA:270(Y):G:H4'	1.85	0.91
24:BA:94:G:H21	48:B1:42:ASN:ND2	1.68	0.91
25:BB:9:G:H4'	39:BR:43:GLU:OE2	1.69	0.91
24:BA:2512:C:H5''	28:BE:120:TRP:HH2	1.24	0.91
30:BG:19:LEU:N	30:BG:19:LEU:HD12	1.86	0.91
41:BT:17:ILE:HA	41:BT:20:LEU:HG	0.95	0.91
41:BT:93:LYS:HG2	42:BU:10:LYS:HZ1	1.34	0.91
1:AA:50:A:N6	1:AA:361:G:H4'	1.85	0.91
1:AA:737:A:H3'	8:AI:92:LYS:NZ	1.84	0.91
1:AA:961:U:H5'	1:AA:984:C:H1'	1.51	0.91
5:AF:20:SER:HB2	5:AF:40:ARG:NH2	1.85	0.91
15:AP:81:LEU:HD23	15:AP:89:GLY:HA2	1.51	0.91
19:AT:62:SER:HB3	19:AT:72:ARG:NE	1.85	0.91
22:AW:85:MET:CB	22:AW:104:LEU:HD21	2.00	0.91
52:B5:19:ARG:HH12	52:B5:41:PRO:CG	1.83	0.91
52:B5:19:ARG:NH2	52:B5:41:PRO:HG3	1.85	0.91
24:BA:1044:G:H5''	24:BA:1045:A:C4'	2.00	0.91
24:BA:1114:G:N2	24:BA:1115:G:H1'	1.85	0.91
24:BA:1808:U:C4	24:BA:1810:A:N1	2.38	0.91
24:BA:201:C:H2'	24:BA:202:U:H5'	1.48	0.91
24:BA:2394:C:H41	24:BA:2422:A:N6	1.68	0.91
24:BA:2468:G:N2	24:BA:2481:G:H2'	1.85	0.91
24:BA:270(C):C:H2'	24:BA:270(D):C:H6	1.34	0.91
24:BA:286:C:H2'	24:BA:287:C:C6	2.04	0.91
24:BA:292:C:C2'	24:BA:293:U:H3	1.83	0.91
24:BA:716:A:H2'	24:BA:717:G:H5'	1.52	0.91
25:BB:78:A:C5	25:BB:99:A:N6	2.38	0.91
28:BE:169:ASN:ND2	28:BE:170:LEU:N	2.19	0.91
29:BF:5:ALA:HB3	29:BF:7:TYR:CE1	2.05	0.91
34:BM:136:GLU:O	34:BM:137:LYS:HG2	1.71	0.91
35:BN:4:PRO:HG2	35:BN:5:GLN:N	1.83	0.91
35:BN:9:GLU:HB3	35:BN:17:ARG:HG2	1.52	0.91
36:BO:113:LYS:HD3	36:BO:114:ILE:N	1.84	0.91
36:BO:56:SER:HB3	54:B7:13:ARG:NH2	1.85	0.91
42:BU:82:ARG:HG3	42:BU:82:ARG:O	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1582:C:H3'	24:BA:1583:A:C5'	1.98	0.91
1:AA:1419:G:HO2'	1:AA:1420:C:H6	1.17	0.91
1:AA:265:G:O2'	1:AA:266:G:H5'	1.70	0.91
1:AA:562:C:O2	14:AO:15:ARG:HB3	1.70	0.91
1:AA:186:C:O2'	22:AW:85:MET:SD	2.29	0.91
52:B5:19:ARG:CZ	52:B5:41:PRO:HG3	1.99	0.91
24:BA:1324:G:H1'	24:BA:1616:A:H62	1.19	0.91
24:BA:1555:G:H2'	24:BA:1556:C:C6	2.06	0.91
24:BA:1975:G:O2'	24:BA:1976:U:H5'	1.70	0.91
24:BA:2528:U:HO2'	24:BA:2529:G:H3'	1.32	0.91
24:BA:2537:U:H2'	24:BA:2538:C:C6	2.05	0.91
24:BA:2712:U:H3'	24:BA:2714:G:OP2	1.69	0.91
24:BA:388:G:OP2	50:B3:23:GLU:HG2	1.71	0.91
24:BA:640:C:N4	24:BA:647:G:H1	1.69	0.91
27:BD:131:LEU:CG	27:BD:132:PRO:HD2	2.00	0.91
27:BD:168:ARG:HG3	27:BD:173:VAL:HG13	1.51	0.91
27:BD:236:GLY:O	27:BD:237:GLU:HG2	1.70	0.91
27:BD:181:GLU:OE2	27:BD:270:ILE:HG22	1.70	0.91
29:BF:41:LEU:HB2	29:BF:44:ARG:NH1	1.85	0.91
35:BN:11:ALA:N	35:BN:17:ARG:HG3	1.85	0.91
39:BR:106:ARG:NH1	39:BR:106:ARG:O	2.03	0.91
39:BR:63:THR:O	39:BR:66:ALA:HB3	1.68	0.91
1:AA:1163:C:C2'	1:AA:1164:G:H5'	2.01	0.91
1:AA:1200:C:H3'	1:AA:1201:A:H5'	1.52	0.91
1:AA:1400:C:H4'	1:AA:1401:G:OP2	1.70	0.91
1:AA:1394:A:N7	1:AA:1501:C:C1'	2.33	0.91
1:AA:777:A:H2'	1:AA:778:G:C8	2.05	0.91
1:AA:878:G:H2'	1:AA:879:C:C6	2.06	0.91
2:AC:74:C:H42	24:BA:2253:G:N2	1.68	0.91
4:AE:208:ILE:HG21	4:AE:239:VAL:HG11	1.52	0.91
5:AF:83:ARG:O	5:AF:87:LEU:HG	1.70	0.91
6:AG:187:ARG:HG3	6:AG:188:LEU:N	1.84	0.91
8:AI:52:ILE:HG22	8:AI:53:ALA:H	1.35	0.91
14:AO:60:LEU:H	14:AO:60:LEU:HD13	1.35	0.91
18:AS:6:LEU:HD23	18:AS:17:TYR:HD2	1.36	0.91
49:B2:29:ARG:HB2	49:B2:30:ARG:HH11	1.35	0.91
24:BA:1448:G:H21	24:BA:1529:A:H2	0.96	0.91
24:BA:1790:C:H3'	24:BA:1828:G:H22	1.33	0.91
24:BA:1795:C:O2'	24:BA:1796:U:H5'	1.71	0.91
24:BA:2058:A:C2	24:BA:2059:A:N7	2.38	0.91
24:BA:270(B):A:H4'	24:BA:270(C):C:C6	2.06	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:138:VAL:HA	27:BD:165:ILE:HG21	1.51	0.91
34:BM:97:ARG:HA	34:BM:100:GLU:CG	2.01	0.91
37:BP:75:THR:HG22	37:BP:77:LYS:H	1.33	0.91
35:BN:99:PHE:CA	40:BS:74:ARG:HH12	1.84	0.91
41:BT:64:ARG:O	41:BT:67:ALA:HB3	1.69	0.91
42:BU:74:LYS:HD3	42:BU:74:LYS:N	1.83	0.91
46:BY:103:ARG:HA	46:BY:103:ARG:HE	1.34	0.91
1:AA:173:U:H5'	1:AA:197:A:H1'	1.52	0.91
8:AI:45:LEU:HG	8:AI:59:TYR:CD1	2.05	0.91
9:AJ:113:GLU:HG3	9:AJ:118:VAL:HB	1.50	0.91
12:AM:30:SER:HB2	12:AM:81:THR:N	1.84	0.91
49:B2:20:LYS:HA	49:B2:23:LEU:HD22	1.52	0.91
24:BA:1111:A:O2'	24:BA:1112:G:H1'	1.69	0.91
24:BA:1183:G:H4'	24:BA:1184:G:O5'	1.69	0.91
24:BA:1670:C:OP2	24:BA:1671:U:H5	1.52	0.91
24:BA:1807:G:H1'	24:BA:1811:G:H22	1.26	0.91
24:BA:2282:G:H1	24:BA:2427:C:H42	1.00	0.91
24:BA:311:A:H3'	24:BA:312:G:C8	2.05	0.91
24:BA:510:C:P	24:BA:512:G:H1	1.94	0.91
24:BA:647:G:H2'	24:BA:648:G:C8	2.05	0.91
24:BA:945:A:N6	24:BA:2448:A:C2	2.38	0.91
27:BD:95:LEU:O	27:BD:102:LYS:HB3	1.71	0.91
30:BG:68:PRO:HB3	30:BG:72:ARG:NH2	1.85	0.91
31:BH:6:ARG:O	31:BH:69:ARG:HD2	1.70	0.91
24:BA:1080:C:O2'	33:BL:126:MET:HG3	1.70	0.91
34:BM:67:LEU:CA	34:BM:70:LYS:HZ3	1.84	0.91
35:BN:68:GLU:HG2	35:BN:76:ALA:O	1.71	0.91
36:BO:125:VAL:HG12	36:BO:125:VAL:O	1.71	0.91
37:BP:22:LYS:HD2	37:BP:99:PRO:HG3	1.53	0.91
39:BR:30:ARG:NH2	39:BR:91:PRO:HB2	1.84	0.91
40:BS:31:SER:OG	40:BS:49:VAL:HG22	1.71	0.91
41:BT:92:ARG:HA	41:BT:95:LEU:HG	1.49	0.91
42:BU:38:LEU:H	42:BU:38:LEU:HD23	1.34	0.91
42:BU:77:ALA:O	42:BU:84:LYS:HA	1.70	0.91
45:BX:88:LYS:HG2	45:BX:89:PHE:N	1.84	0.91
24:BA:2677:G:O2'	24:BA:2678:C:H5'	1.71	0.91
1:AA:182:U:H2'	1:AA:183:G:H5'	1.52	0.91
4:AE:115:LEU:HA	4:AE:118:LEU:HD12	1.53	0.91
6:AG:20:TYR:HB2	6:AG:27:TYR:CA	2.01	0.91
12:AM:23:ILE:HG13	12:AM:85:LEU:HB3	1.50	0.91
14:AO:32:PHE:HB2	14:AO:84:LEU:HD11	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:51:TYR:HD1	51:B4:54:GLY:N	1.68	0.91
38:BQ:33:ARG:NH2	51:B4:56:LYS:HB2	1.86	0.91
53:B6:32:LYS:HA	53:B6:35:ARG:HH11	1.33	0.91
24:BA:1009:A:O2'	41:BT:62:ILE:HD13	1.71	0.91
24:BA:125:G:H22	53:B6:10:ARG:HA	1.36	0.91
24:BA:1281:G:H2'	24:BA:1282:U:H6	1.35	0.91
24:BA:1912:A:N1	24:BA:1919:A:C4	2.39	0.91
24:BA:2052:G:H2'	24:BA:2053:G:H8	1.35	0.91
24:BA:2730:C:H4'	28:BE:169:ASN:O	1.69	0.91
24:BA:2807:G:H22	24:BA:2892:A:H62	1.19	0.91
24:BA:684:G:N7	24:BA:774:A:N7	2.18	0.91
27:BD:159:ALA:HA	27:BD:196:VAL:HG11	1.52	0.91
28:BE:119:ARG:CZ	28:BE:155:LYS:HB3	2.01	0.91
28:BE:49:LEU:CD1	28:BE:76:ARG:HG2	2.00	0.91
29:BF:36:VAL:HG11	29:BF:183:VAL:HG21	1.51	0.91
30:BG:148:MET:SD	30:BG:151:ALA:HB2	2.10	0.91
24:BA:871:U:H4'	37:BP:69:PHE:CZ	2.05	0.91
32:BK:81:VAL:CG2	32:BK:144:VAL:HG22	2.01	0.91
24:BA:2148:G:H2'	24:BA:2149:G:C8	2.05	0.91
1:AA:1210:C:H4'	1:AA:1214:C:N3	1.85	0.91
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.84	0.91
1:AA:129(A):G:H2'	1:AA:189:U:C5	2.05	0.91
1:AA:227:G:H2'	1:AA:228:A:C8	2.05	0.91
1:AA:530:G:H3'	1:AA:530:G:N3	1.85	0.91
4:AE:82:ARG:HB2	4:AE:94:ASN:HD21	1.31	0.91
8:AI:59:TYR:CE2	8:AI:61:LEU:HD21	2.06	0.91
11:AL:10:ARG:CA	11:AL:104:ARG:HE	1.83	0.91
15:AP:4:ILE:O	15:AP:8:GLU:HB2	1.71	0.91
24:BA:1176:G:H5''	24:BA:1177:A:C8	2.06	0.91
24:BA:1324:G:C1'	24:BA:1616:A:H62	1.84	0.91
24:BA:2254:C:O2'	24:BA:2255:G:H5'	1.68	0.91
24:BA:2394:C:H2'	24:BA:2394:C:O2	1.68	0.91
24:BA:199:A:N1	24:BA:2433:A:H2'	1.86	0.91
24:BA:2447:G:C3'	24:BA:2499:C:P	2.57	0.91
24:BA:410:G:H2'	24:BA:411:G:N7	1.85	0.91
24:BA:467:G:C2'	24:BA:468:G:H5'	2.00	0.91
24:BA:979:G:H3'	24:BA:980:A:C5'	2.01	0.91
24:BA:994:C:H3'	41:BT:54:LYS:HZ1	1.35	0.91
27:BD:84:TYR:HA	27:BD:92:ILE:CG2	2.00	0.91
28:BE:4:ILE:HD11	28:BE:76:ARG:HE	1.36	0.91
24:BA:2637:U:C5'	28:BE:81:ILE:HD11	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:37:LYS:CD	34:BM:43:THR:HG23	2.00	0.91
34:BM:74:ARG:HB2	34:BM:82:LEU:CB	2.01	0.91
40:BS:50:ILE:HB	40:BS:66:VAL:CB	2.01	0.91
41:BT:17:ILE:HD12	41:BT:20:LEU:HD11	1.53	0.91
44:BW:16:LYS:H	44:BW:16:LYS:HE2	1.37	0.91
45:BX:86:ARG:HG2	45:BX:91:GLU:O	1.70	0.91
47:BZ:36:ILE:HD11	47:BZ:39:ARG:HG3	1.51	0.91
32:BK:77:LEU:HD12	32:BK:142:VAL:HG13	1.52	0.91
26:BC:59:ARG:HD3	26:BC:164:ARG:CG	2.00	0.91
26:BC:83:ILE:O	26:BC:87:GLU:HB2	1.71	0.91
17:AR:36:ILE:HG13	17:AR:59:MET:HE1	1.53	0.90
17:AR:71:GLN:O	17:AR:75:PRO:HD3	1.70	0.90
49:B2:22:ALA:O	49:B2:26:LEU:HD22	1.71	0.90
50:B3:11:PRO:HA	50:B3:40:HIS:NE2	1.86	0.90
24:BA:1189:A:N3	24:BA:1189:A:H2'	1.83	0.90
24:BA:1917:U:C6	24:BA:1917:U:H3'	2.07	0.90
24:BA:1267:U:H5	24:BA:2012:G:H22	1.18	0.90
24:BA:2059:A:N1	24:BA:2503:A:N6	2.19	0.90
24:BA:1265:A:OP2	24:BA:2615:U:OP1	1.86	0.90
24:BA:2767:C:C2	24:BA:2768:C:C5	2.59	0.90
24:BA:295:G:H3'	24:BA:338:G:H1	1.34	0.90
27:BD:146:GLU:OE1	27:BD:149:PRO:HA	1.69	0.90
27:BD:171:ASP:O	27:BD:186:HIS:HA	1.69	0.90
28:BE:100:GLU:O	28:BE:172:VAL:HG13	1.71	0.90
34:BM:123:TYR:O	34:BM:125:GLY:N	2.04	0.90
35:BN:25:LEU:HD23	35:BN:26:LYS:H	1.36	0.90
35:BN:2:ILE:HD12	35:BN:32:TYR:HD1	1.34	0.90
36:BO:13:ASN:ND2	36:BO:14:LYS:H	1.69	0.90
45:BX:67:LEU:CD1	45:BX:71:LYS:HZ1	1.84	0.90
45:BX:72:VAL:HG11	45:BX:96:ILE:HG21	1.53	0.90
32:BK:146:ALA:C	32:BK:148:GLU:H	1.72	0.90
26:BC:87:GLU:OE1	26:BC:94:VAL:HG11	1.70	0.90
1:AA:47:C:C4'	1:AA:48:C:H5''	1.99	0.90
1:AA:761:G:H5'	19:AT:103:GLY:H	1.33	0.90
5:AF:91:LEU:HD21	5:AF:98:ASN:HA	1.50	0.90
6:AG:126:ILE:O	6:AG:132:ARG:HB2	1.70	0.90
1:AA:8:A:H5'	7:AH:120:THR:O	1.70	0.90
8:AI:68:PRO:HB2	8:AI:71:ARG:HG3	1.50	0.90
14:AO:87:GLY:HA2	14:AO:98:TYR:HB3	1.53	0.90
24:BA:1084:A:O2'	24:BA:1105:U:H1'	1.71	0.90
24:BA:1203:G:N1	24:BA:1240:U:O2	2.03	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1604:C:O2'	24:BA:1605:C:H5'	1.70	0.90
24:BA:197:A:H61	24:BA:248:G:N2	1.70	0.90
24:BA:2006:C:O2'	24:BA:2823:A:N3	2.02	0.90
24:BA:224:G:N2	24:BA:225:A:H1'	1.85	0.90
27:BD:146:GLU:HA	27:BD:154:LYS:HG2	1.49	0.90
29:BF:183:VAL:HA	29:BF:186:ILE:HD12	1.53	0.90
31:BH:105:LEU:O	31:BH:113:VAL:HG21	1.71	0.90
32:BK:21:VAL:HB	32:BK:26:ALA:CB	2.02	0.90
24:BA:1080:C:H4'	33:BL:125:ARG:HB3	1.53	0.90
35:BN:59:LYS:HA	35:BN:86:ILE:HD13	1.53	0.90
35:BN:97:ARG:CB	35:BN:117:LEU:HD21	2.02	0.90
36:BO:122:PRO:HB3	36:BO:141:ALA:HB3	1.52	0.90
37:BP:124:LYS:HE2	37:BP:125:LEU:H	1.32	0.90
39:BR:106:ARG:HH12	39:BR:110:LEU:HB3	1.35	0.90
41:BT:19:LYS:HB2	41:BT:19:LYS:NZ	1.86	0.90
41:BT:93:LYS:HA	41:BT:93:LYS:HZ2	1.35	0.90
1:AA:1225:A:H4'	21:AV:78:ARG:HD3	1.52	0.90
1:AA:1363:A:H4'	1:AA:1364:U:O5'	1.68	0.90
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.36	0.90
1:AA:517:G:H22	1:AA:533:A:P	1.94	0.90
6:AG:104:VAL:HA	6:AG:107:ARG:HB2	1.51	0.90
6:AG:31:CYS:O	6:AG:31:CYS:SG	2.28	0.90
6:AG:98:GLU:HA	6:AG:103:ASN:ND2	1.86	0.90
7:AH:18:ARG:HH21	7:AH:25:ARG:HG3	1.36	0.90
10:AK:92:ARG:HB3	10:AK:94:TYR:HE1	1.36	0.90
10:AK:95:VAL:HB	10:AK:99:GLU:OE1	1.70	0.90
12:AM:79:ARG:HH11	12:AM:79:ARG:CA	1.84	0.90
19:AT:5:VAL:CG1	19:AT:59:ILE:O	2.18	0.90
22:AW:26:ASN:HD22	22:AW:27:LYS:H	0.93	0.90
52:B5:8:LYS:CE	52:B5:29:ASN:HA	2.00	0.90
24:BA:1400:G:H2'	24:BA:1401:G:C8	2.06	0.90
24:BA:1516:U:H2'	24:BA:1517:G:C8	2.05	0.90
24:BA:2453:A:O2'	24:BA:2572:A:H1'	1.70	0.90
24:BA:2498:C:H2'	24:BA:2499:C:H5''	1.52	0.90
24:BA:2746:U:O4'	31:BH:139:GLN:HB3	1.71	0.90
24:BA:2876:G:OP1	40:BS:2:ASN:HB3	1.71	0.90
24:BA:2900:A:H2'	24:BA:2901:C:C6	2.06	0.90
24:BA:559:G:H5'	24:BA:559:G:H8	1.36	0.90
24:BA:84:A:C6	24:BA:99:U:H1'	2.05	0.90
27:BD:206:LEU:HD23	27:BD:207:GLY:H	1.35	0.90
27:BD:208:LYS:HZ2	27:BD:211:ARG:HG2	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:7:LYS:HZ2	27:BD:91:ARG:HH11	1.12	0.90
34:BM:26:LEU:O	34:BM:29:LYS:HB2	1.72	0.90
34:BM:74:ARG:HD2	34:BM:82:LEU:CD1	2.00	0.90
37:BP:14:ARG:HE	37:BP:14:ARG:HA	1.31	0.90
37:BP:51:ARG:NH1	37:BP:51:ARG:HB2	1.87	0.90
38:BQ:87:TYR:OH	38:BQ:116:LEU:HB2	1.71	0.90
42:BU:62:LEU:HD22	42:BU:99:ILE:H	1.36	0.90
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.52	0.90
1:AA:272:C:H2'	1:AA:273:A:H8	1.35	0.90
1:AA:713:G:H2'	1:AA:714:G:C8	2.05	0.90
1:AA:652:U:H2'	1:AA:752:G:H22	1.36	0.90
4:AE:162:ILE:HD13	4:AE:183:PRO:O	1.71	0.90
4:AE:69:LEU:HB3	4:AE:162:ILE:HG22	1.54	0.90
5:AF:91:LEU:CD2	5:AF:98:ASN:HA	2.02	0.90
1:AA:9:G:OP2	7:AH:121:LYS:HD2	1.71	0.90
12:AM:6:ILE:HG22	12:AM:98:ILE:HG13	1.52	0.90
15:AP:23:TYR:O	15:AP:66:LEU:HD12	1.72	0.90
20:AU:86:VAL:O	20:AU:87:ARG:HB2	1.69	0.90
24:BA:1128:A:N3	24:BA:1128:A:H2'	1.84	0.90
24:BA:1813:G:H4'	27:BD:46:GLN:CB	2.01	0.90
24:BA:2472:G:H2'	24:BA:2475:C:H42	1.34	0.90
24:BA:387:U:H4'	24:BA:388:G:O4'	1.72	0.90
27:BD:120:GLY:O	27:BD:131:LEU:HD11	1.72	0.90
27:BD:51:VAL:HG12	27:BD:52:ARG:CD	2.00	0.90
28:BE:43:GLY:O	28:BE:45:THR:HG22	1.72	0.90
31:BH:35:VAL:HG11	31:BH:75:ALA:HB2	1.52	0.90
34:BM:70:LYS:NZ	34:BM:86:PRO:HB3	1.87	0.90
35:BN:64:ARG:HH11	35:BN:68:GLU:H	1.05	0.90
42:BU:3:ALA:CA	42:BU:44:LYS:HZ2	1.84	0.90
45:BX:86:ARG:HB3	45:BX:86:ARG:NH2	1.86	0.90
32:BK:76:THR:HA	32:BK:141:LYS:HE2	1.51	0.90
3:AD:18:G:H2'	3:AD:19:G:C4'	2.02	0.90
1:AA:232:G:H2'	1:AA:233:C:C6	2.07	0.90
1:AA:279:A:N1	19:AT:98:LEU:HG	1.87	0.90
1:AA:533:A:C5	1:AA:536:C:N4	2.40	0.90
1:AA:65:U:H4'	1:AA:66:G:H5''	1.52	0.90
10:AK:60:ARG:HG3	10:AK:61:VAL:N	1.85	0.90
10:AK:64:LYS:HD3	10:AK:79:VAL:HG11	1.50	0.90
11:AL:19:LEU:CD2	11:AL:59:PHE:HB3	2.01	0.90
54:B7:30:ARG:NE	54:B7:44:LYS:HB2	1.86	0.90
24:BA:2332:U:H4'	24:BA:2336:A:C6	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2394:C:N4	24:BA:2422:A:N6	2.18	0.90
24:BA:2606:C:H6	24:BA:2606:C:H5'	1.33	0.90
27:BD:182:LEU:N	27:BD:270:ILE:HG13	1.85	0.90
36:BO:126:VAL:H	36:BO:145:PRO:HA	1.35	0.90
41:BT:92:ARG:HG2	41:BT:93:LYS:HZ1	1.34	0.90
45:BX:42:VAL:HG22	45:BX:61:ILE:HG21	1.54	0.90
46:BY:18:LEU:HD22	46:BY:23:LYS:HB3	1.54	0.90
24:BA:2129:C:OP1	26:BC:6:ARG:HG3	1.70	0.90
1:AA:763:G:H2'	1:AA:764:C:C6	2.07	0.90
4:AE:170:GLU:HB3	4:AE:174:VAL:HG23	1.53	0.90
5:AF:67:THR:HA	5:AF:102:ASN:O	1.72	0.90
5:AF:83:ARG:HG3	5:AF:87:LEU:HD11	1.52	0.90
8:AI:52:ILE:HG22	8:AI:53:ALA:N	1.87	0.90
1:AA:1250:A:H4'	11:AL:67:GLY:C	1.92	0.90
12:AM:8:LEU:HD13	12:AM:94:VAL:HG11	1.53	0.90
20:AU:26:LEU:HB2	20:AU:42:ARG:NH1	1.85	0.90
53:B6:1:MET:HB3	53:B6:3:ARG:NH1	1.85	0.90
24:BA:1558:A:H1'	24:BA:1559:G:N7	1.85	0.90
24:BA:2064:C:H1'	24:BA:2450:A:N6	1.85	0.90
24:BA:2893:G:H1'	24:BA:2894:G:H8	1.37	0.90
24:BA:687:C:H1'	24:BA:788:A:H5'	1.53	0.90
27:BD:55:GLY:H	27:BD:219:PRO:HD2	0.76	0.90
24:BA:1567:A:H61	27:BD:85:ASP:C	1.75	0.90
29:BF:7:TYR:CD2	29:BF:119:ARG:HB3	2.06	0.90
24:BA:2690:C:H5	38:BQ:14:SER:HB2	1.36	0.90
43:BV:19:LEU:HD22	51:B4:25:LEU:HB3	1.53	0.90
45:BX:74:PRO:HG2	45:BX:76:CYS:HB3	1.52	0.90
47:BZ:37:LEU:HG	47:BZ:59:LEU:O	1.72	0.90
26:BC:54:SER:HA	26:BC:57:ASN:HD22	1.37	0.90
26:BC:77:ILE:CD1	26:BC:123:VAL:HG11	2.01	0.90
25:BB:93:C:H2'	25:BB:94:C:C6	2.07	0.90
1:AA:164:U:HO2'	1:AA:165:C:H6	0.93	0.90
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.05	0.90
9:AJ:10:ARG:NH1	9:AJ:10:ARG:HB3	1.86	0.90
14:AO:100:ILE:HD13	14:AO:100:ILE:N	1.86	0.90
15:AP:4:ILE:HG23	15:AP:57:ARG:HG3	1.53	0.90
16:AQ:27:CYS:SG	16:AQ:43:CYS:N	2.43	0.90
52:B5:25:LYS:HE2	54:B7:35:GLN:HG3	1.53	0.90
24:BA:1033:U:H5''	55:B8:16:VAL:HG11	1.54	0.90
24:BA:1716:U:O2	24:BA:1716:U:H2'	1.71	0.90
24:BA:2014:A:H2'	24:BA:2015:A:H2	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2393:A:H2'	24:BA:2394:C:O4'	1.71	0.90
24:BA:2421:G:H2'	24:BA:2422:A:C8	2.06	0.90
24:BA:2447:G:C2'	24:BA:2499:C:OP2	2.18	0.90
24:BA:307:G:H21	24:BA:310:A:H8	0.96	0.90
24:BA:412:A:C2	24:BA:413:C:H1'	2.06	0.90
24:BA:603:A:H61	24:BA:624:C:N4	1.70	0.90
24:BA:638:G:H2'	24:BA:639:U:C5'	2.02	0.90
24:BA:821:A:H2'	24:BA:946:G:C8	2.06	0.90
24:BA:861:A:H62	24:BA:916:G:H21	1.18	0.90
28:BE:49:LEU:HD13	28:BE:76:ARG:CG	2.02	0.90
36:BO:15:ARG:NH2	36:BO:16:ARG:HB2	1.87	0.90
37:BP:97:VAL:HG11	37:BP:103:MET:HE1	1.53	0.90
1:AA:1188:A:H5'	12:AM:61:GLU:OE2	1.71	0.90
1:AA:817:C:O2'	1:AA:818:G:OP2	1.90	0.90
17:AR:65:ARG:O	17:AR:68:ARG:HB3	1.70	0.90
48:B1:27:LEU:HG	48:B1:48:LEU:HD23	1.54	0.90
51:B4:40:LYS:HE2	51:B4:41:PRO:O	1.72	0.90
55:B8:16:VAL:HG13	55:B8:16:VAL:O	1.70	0.90
24:BA:1882:C:H2'	24:BA:1883:G:O4'	1.72	0.90
24:BA:1826:G:O2'	24:BA:1971:A:H4'	1.70	0.90
24:BA:251:A:H2'	24:BA:252:G:O4'	1.72	0.90
24:BA:387:U:H4'	24:BA:388:G:C1'	2.01	0.90
24:BA:953:A:C2'	24:BA:954:G:H5'	2.02	0.90
31:BH:9:ILE:O	31:BH:50:VAL:HG23	1.72	0.90
34:BM:74:ARG:CG	34:BM:82:LEU:HD22	2.02	0.90
35:BN:39:ILE:HD13	35:BN:39:ILE:N	1.86	0.90
38:BQ:74:LYS:H	38:BQ:74:LYS:HZ2	1.19	0.90
39:BR:9:ARG:HB2	39:BR:9:ARG:CZ	2.00	0.90
26:BC:46:LYS:HG3	26:BC:211:SER:OG	1.72	0.90
1:AA:937:A:H1'	1:AA:1379:G:N2	1.87	0.90
8:AI:12:PRO:HG2	8:AI:13:ASN:ND2	1.87	0.90
1:AA:597:G:N2	10:AK:94:TYR:CE2	2.39	0.90
24:BA:1309:G:H5''	53:B6:9:ARG:H	1.36	0.90
24:BA:2308:G:O3'	24:BA:2310:A:N6	2.04	0.90
27:BD:147:LEU:HG	27:BD:154:LYS:CD	1.99	0.90
29:BF:35:GLU:HA	29:BF:38:ARG:HD2	1.54	0.90
30:BG:118:ARG:HB2	30:BG:118:ARG:HH11	1.37	0.90
31:BH:85:LYS:CD	31:BH:145:ALA:HB2	2.01	0.90
31:BH:89:ILE:HD12	31:BH:90:LYS:H	1.34	0.90
34:BM:19:GLU:HB2	34:BM:56:ASN:HB3	1.52	0.90
24:BA:1996:C:OP2	35:BN:31:LYS:NZ	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:63:VAL:O	35:BN:64:ARG:HB3	1.71	0.90
38:BQ:32:GLY:O	38:BQ:115:GLU:HB2	1.71	0.90
42:BU:50:PRO:HG2	42:BU:53:GLU:OE2	1.72	0.90
1:AA:173:U:O4'	1:AA:197:A:N3	2.05	0.90
1:AA:621:A:H2'	1:AA:622:A:C8	2.07	0.90
1:AA:8:A:H1'	7:AH:102:ALA:O	1.71	0.90
1:AA:939:G:H5''	9:AJ:102:ARG:NH1	1.87	0.90
1:AA:973:G:H3'	1:AA:974:A:H5''	1.55	0.90
4:AE:15:VAL:HG21	4:AE:209:ARG:HB3	1.54	0.90
8:AI:52:ILE:HD13	8:AI:87:ARG:CZ	2.02	0.90
9:AJ:45:ASP:O	9:AJ:48:LYS:HB2	1.72	0.90
11:AL:37:PHE:HD1	11:AL:43:ALA:HA	1.36	0.90
1:AA:562:C:O2'	14:AO:15:ARG:HD3	1.70	0.90
15:AP:25:ILE:HA	15:AP:29:ARG:HG3	1.54	0.90
24:BA:2286:A:H4'	24:BA:2287:A:C1'	2.02	0.90
24:BA:2320:A:H1'	24:BA:2333:A:N6	1.86	0.90
24:BA:2468:G:O2'	24:BA:2469:A:H8	1.53	0.90
24:BA:820:A:H2'	24:BA:821:A:H5'	1.52	0.90
24:BA:928:G:O2'	49:B2:43:ILE:HG12	1.71	0.90
25:BB:51:G:C2'	25:BB:52:A:H5''	2.02	0.90
29:BF:30:PRO:HA	29:BF:33:LEU:HD21	1.52	0.90
24:BA:2093:G:H5'	32:BK:25:TYR:CD1	2.06	0.90
32:BK:27:ARG:O	32:BK:32:PRO:HD3	1.72	0.90
24:BA:2685:G:H4'	35:BN:67:LYS:HZ1	1.30	0.90
36:BO:72:PRO:CB	36:BO:111:ARG:HB3	2.00	0.90
39:BR:73:LEU:H	39:BR:73:LEU:HD13	1.37	0.90
42:BU:35:LEU:O	42:BU:61:VAL:HG13	1.72	0.90
45:BX:38:ILE:HA	45:BX:60:PHE:HZ	1.34	0.90
1:AA:47:C:H4'	1:AA:48:C:C5'	2.02	0.89
1:AA:607:A:C2	1:AA:608:A:H1'	2.06	0.89
5:AF:131:ARG:NH1	7:AH:51:VAL:HG23	1.86	0.89
9:AJ:61:VAL:HG12	9:AJ:124:LEU:HD22	1.54	0.89
24:BA:1299:G:O6	24:BA:1639:U:H5''	1.71	0.89
24:BA:1547:C:O2'	24:BA:1548:C:H5'	1.73	0.89
24:BA:15:G:O2'	24:BA:16:G:H5'	1.72	0.89
24:BA:1784:A:O2'	24:BA:1785:A:C8	2.25	0.89
24:BA:2075:U:O2	24:BA:2076:U:H5'	1.72	0.89
24:BA:2218:G:H4'	27:BD:186:HIS:NE2	1.87	0.89
24:BA:2848:G:N2	24:BA:2867:G:N3	2.19	0.89
24:BA:308:G:C2	24:BA:309:G:H1'	2.07	0.89
24:BA:636:G:H4'	24:BA:638:G:O2'	1.70	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:828:U:C2'	24:BA:829:A:C8	2.53	0.89
24:BA:865:C:O2'	24:BA:866:A:H8	1.53	0.89
27:BD:157:ARG:HB3	27:BD:160:GLY:HA3	1.55	0.89
27:BD:246:PRO:HG3	27:BD:252:TRP:HA	1.53	0.89
27:BD:29:PRO:HB3	27:BD:82:ILE:C	1.92	0.89
31:BH:84:SER:HA	31:BH:134:SER:HA	1.53	0.89
31:BH:76:VAL:HA	31:BH:79:VAL:HG22	1.52	0.89
33:BL:14:ALA:HB3	33:BL:49:GLY:CA	2.02	0.89
34:BM:109:LYS:HG3	34:BM:110:GLY:H	1.36	0.89
35:BN:58:VAL:C	35:BN:59:LYS:HD3	1.92	0.89
35:BN:66:LYS:HG3	35:BN:67:LYS:HE2	1.52	0.89
36:BO:114:ILE:HB	36:BO:129:ALA:O	1.71	0.89
37:BP:43:THR:HG23	37:BP:46:GLN:NE2	1.86	0.89
39:BR:49:VAL:HG13	39:BR:76:LYS:NZ	1.87	0.89
44:BW:16:LYS:HE2	44:BW:16:LYS:N	1.87	0.89
44:BW:27:THR:HG22	44:BW:80:ILE:HG23	1.54	0.89
1:AA:789:U:C6	1:AA:790:A:H5'	2.06	0.89
8:AI:89:MET:HE3	20:AU:75:ILE:HD13	1.54	0.89
9:AJ:72:ARG:HH22	9:AJ:138:LYS:NZ	1.70	0.89
10:AK:22:GLU:HA	10:AK:63:LEU:CD2	2.02	0.89
12:AM:45:ARG:HH11	12:AM:45:ARG:CB	1.85	0.89
20:AU:36:ASN:O	20:AU:40:LEU:HG	1.72	0.89
54:B7:15:LYS:O	54:B7:22:VAL:HA	1.71	0.89
24:BA:1160:G:H2'	24:BA:1161:C:H5	1.36	0.89
24:BA:1180:C:H2'	24:BA:1181:C:C6	2.07	0.89
24:BA:1206:G:H2'	24:BA:1207:C:C1'	2.02	0.89
24:BA:1772:G:H2'	24:BA:1773:A:H4'	1.53	0.89
24:BA:332:A:H2'	24:BA:335:C:N4	1.87	0.89
24:BA:459:U:OP2	53:B6:40:TRP:CA	2.18	0.89
24:BA:612:G:N2	24:BA:617:G:O6	2.05	0.89
27:BD:96:HIS:HA	27:BD:102:LYS:HG2	1.52	0.89
29:BF:9:ILE:HD11	29:BF:122:LYS:CG	2.02	0.89
31:BH:121:ILE:HG13	31:BH:133:VAL:HG21	1.53	0.89
24:BA:558:G:H5'	34:BM:112:LEU:HG	1.52	0.89
39:BR:62:LYS:HB3	39:BR:65:VAL:H	1.38	0.89
46:BY:118:GLN:HA	46:BY:118:GLN:NE2	1.83	0.89
1:AA:265:G:H2'	1:AA:267:C:H5	1.36	0.89
1:AA:778:G:H2'	1:AA:779:C:C6	2.07	0.89
4:AE:42:ILE:HD11	4:AE:202:PRO:HB2	1.52	0.89
21:AV:40:ILE:O	21:AV:68:GLY:HA2	1.71	0.89
52:B5:15:GLU:OE2	52:B5:21:TYR:HB3	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:21:ARG:HG2	53:B6:31:LEU:HD21	1.54	0.89
24:BA:1675:C:O2	24:BA:1676:A:O4'	1.90	0.89
24:BA:576:U:C2	24:BA:577:G:N7	2.40	0.89
24:BA:628:G:H8	24:BA:628:G:O5'	1.55	0.89
24:BA:684:G:N1	24:BA:775:G:N7	2.21	0.89
24:BA:816:C:C2'	24:BA:817:C:H5'	2.02	0.89
24:BA:2787:C:C1'	28:BE:61:ARG:HD2	2.02	0.89
28:BE:80:GLU:HG2	28:BE:83:ASP:CG	1.91	0.89
29:BF:7:TYR:HD2	29:BF:119:ARG:HB3	1.35	0.89
31:BH:120:GLY:N	31:BH:140:LYS:NZ	2.20	0.89
24:BA:2562:U:H1'	35:BN:23:ARG:HH21	1.35	0.89
35:BN:76:ALA:HA	40:BS:77:PRO:HD2	1.51	0.89
38:BQ:51:LEU:HD11	38:BQ:70:LEU:HD11	1.53	0.89
42:BU:19:LYS:HG2	42:BU:98:GLU:OE2	1.71	0.89
45:BX:98:VAL:O	45:BX:99:CYS:SG	2.31	0.89
46:BY:152:ALA:O	46:BY:155:LEU:HD22	1.71	0.89
46:BY:39:VAL:HA	46:BY:44:PHE:CZ	2.07	0.89
26:BC:134:ARG:HB3	26:BC:134:ARG:NH1	1.87	0.89
3:AD:69:C:H2'	3:AD:70:G:C8	2.06	0.89
4:AE:54:THR:HG21	4:AE:201:ILE:HD11	1.54	0.89
10:AK:100:ILE:HD12	10:AK:100:ILE:H	1.35	0.89
14:AO:88:GLY:N	14:AO:98:TYR:HA	1.88	0.89
21:AV:22:LEU:HG	21:AV:25:LYS:HE2	1.52	0.89
49:B2:13:ILE:HG23	49:B2:14:GLY:N	1.88	0.89
49:B2:29:ARG:CB	49:B2:30:ARG:HH11	1.85	0.89
52:B5:20:ASN:HD21	52:B5:43:CYS:N	1.71	0.89
24:BA:973:A:C1'	24:BA:1188:U:O4	2.20	0.89
24:BA:1609:A:N6	24:BA:1616:A:H2	1.71	0.89
24:BA:1937:A:N6	24:BA:1939:U:C5	2.39	0.89
24:BA:2408:U:O5'	24:BA:2408:U:H6	1.55	0.89
24:BA:270(F):U:H2'	24:BA:270(G):C:O4'	1.72	0.89
24:BA:38:A:H1'	29:BF:48:THR:HB	1.53	0.89
27:BD:225:ALA:HB3	27:BD:231:HIS:NE2	1.86	0.89
31:BH:8:PRO:HA	31:BH:51:ARG:CZ	2.02	0.89
33:BL:37:PHE:CE2	33:BL:65:PHE:HB2	2.08	0.89
35:BN:63:VAL:HG12	35:BN:99:PHE:HE1	1.34	0.89
38:BQ:52:ILE:O	38:BQ:52:ILE:HD13	1.71	0.89
43:BV:25:ARG:HH21	43:BV:74:ALA:N	1.69	0.89
47:BZ:11:ARG:HH11	47:BZ:11:ARG:HB3	1.37	0.89
26:BC:87:GLU:CG	26:BC:94:VAL:HG21	1.99	0.89
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:86:ARG:NH1	14:AO:119:LYS:HD3	1.86	0.89
53:B6:41:ARG:C	53:B6:42:LEU:HG	1.93	0.89
53:B6:41:ARG:HH11	53:B6:41:ARG:HB2	1.31	0.89
24:BA:1085:A:O2'	24:BA:1086:A:O4'	1.89	0.89
24:BA:1173:G:H21	24:BA:1175:U:P	1.95	0.89
24:BA:1335:U:OP1	44:BW:65:ARG:HG3	1.73	0.89
24:BA:1359:A:N6	24:BA:1360:A:C5	2.39	0.89
24:BA:1491:G:H2'	24:BA:1492:G:C4'	1.99	0.89
27:BD:177:LEU:HD12	27:BD:177:LEU:O	1.72	0.89
27:BD:55:GLY:HA2	27:BD:218:ARG:NH1	1.87	0.89
33:BL:99:ILE:HG22	33:BL:100:THR:N	1.87	0.89
39:BR:103:GLU:O	39:BR:106:ARG:HB3	1.72	0.89
39:BR:14:VAL:O	39:BR:18:ILE:HD13	1.71	0.89
40:BS:52:ILE:HA	40:BS:66:VAL:HG13	1.54	0.89
1:AA:1307:U:H6	1:AA:1307:U:O5'	1.54	0.89
1:AA:12:U:H2'	1:AA:13:U:H5	1.35	0.89
1:AA:922:G:H2'	1:AA:923:A:H8	1.38	0.89
7:AH:86:ALA:O	7:AH:125:SER:HB3	1.72	0.89
17:AR:31:LEU:O	17:AR:35:ARG:HG3	1.72	0.89
24:BA:1312:U:C3'	24:BA:1313:U:C6	2.56	0.89
24:BA:247:G:H1	54:B7:8:LYS:NZ	1.70	0.89
24:BA:2572:A:H4'	24:BA:2573:C:C5'	2.03	0.89
24:BA:1782:C:C4	24:BA:2587:A:N6	2.39	0.89
24:BA:2720:U:O4	24:BA:2872:G:C6	2.25	0.89
24:BA:371:A:H5''	24:BA:423:A:C8	2.08	0.89
24:BA:616:A:H3'	24:BA:616:A:OP2	1.72	0.89
31:BH:28:GLY:CA	31:BH:79:VAL:HB	2.02	0.89
35:BN:7:TYR:CA	35:BN:18:LYS:HE3	2.03	0.89
36:BO:124:LYS:CB	36:BO:143:GLY:HA3	2.01	0.89
36:BO:97:PRO:HA	36:BO:102:ARG:CZ	2.03	0.89
40:BS:28:VAL:HG11	40:BS:90:GLN:OE1	1.71	0.89
41:BT:76:TYR:CD2	41:BT:80:ILE:HD11	2.07	0.89
43:BV:6:ILE:CG1	43:BV:104:THR:HA	2.01	0.89
45:BX:14:LEU:HD22	45:BX:20:TYR:H	1.37	0.89
46:BY:145:GLU:O	46:BY:147:GLY:N	2.04	0.89
46:BY:116:VAL:HG11	46:BY:174:VAL:HB	1.54	0.89
14:AO:102:ARG:NE	14:AO:109:GLY:HA2	1.87	0.89
1:AA:1049:U:H1'	1:AA:1201:A:H8	1.35	0.89
1:AA:383:A:H2'	1:AA:384:G:C5'	2.02	0.89
1:AA:915:A:H2'	1:AA:916:G:H5'	1.53	0.89
1:AA:949:A:H4'	1:AA:1364:U:O4	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:528:C:N4	14:AO:49:ASN:ND2	2.21	0.89
22:AW:75:ASN:H	22:AW:75:ASN:HD22	1.12	0.89
24:BA:1259:G:H2'	24:BA:1260:G:C8	2.08	0.89
24:BA:2209:C:H4'	27:BD:150:LYS:HB3	1.55	0.89
24:BA:748:G:H3'	24:BA:750:A:OP2	1.70	0.89
24:BA:2786:U:O2	28:BE:61:ARG:HG3	1.73	0.89
29:BF:157:VAL:HG22	29:BF:194:MET:HA	1.54	0.89
39:BR:24:LEU:HD21	39:BR:39:ILE:HG22	1.55	0.89
32:BK:83:ALA:HB3	32:BK:88:ILE:HA	1.54	0.89
1:AA:1178:G:H21	1:AA:1180:A:H3'	1.38	0.89
1:AA:1224:G:N2	1:AA:1362(A):C:N3	2.20	0.89
1:AA:197:A:H61	1:AA:221:C:H5'	0.97	0.89
1:AA:863:U:H2'	1:AA:863:U:O2	1.71	0.89
4:AE:35:GLU:O	4:AE:36:ARG:CZ	2.20	0.89
7:AH:144:THR:HG22	7:AH:146:ALA:H	1.36	0.89
14:AO:16:GLU:O	14:AO:17:LYS:HB3	1.72	0.89
24:BA:95:G:H2'	48:B1:43:HIS:HE1	1.38	0.89
49:B2:6:VAL:O	49:B2:35:ARG:HG3	1.72	0.89
24:BA:1965:C:H3'	24:BA:1966:A:H8	1.30	0.89
24:BA:1127:A:C6	24:BA:2518:A:C2	2.61	0.89
24:BA:2832:U:H1'	24:BA:2834:G:C2	2.08	0.89
24:BA:866:A:N3	24:BA:866:A:H2'	1.88	0.89
27:BD:129:ASN:O	27:BD:193:VAL:HG23	1.71	0.89
28:BE:22:PRO:HA	28:BE:185:LYS:CA	2.03	0.89
28:BE:49:LEU:HG	28:BE:74:PRO:CG	2.03	0.89
29:BF:137:LYS:O	29:BF:140:LEU:HB3	1.71	0.89
29:BF:142:TRP:HA	29:BF:145:GLU:HG2	1.54	0.89
30:BG:105:LYS:O	30:BG:109:VAL:HG22	1.72	0.89
32:BK:28:ASN:HA	32:BK:32:PRO:HB3	1.55	0.89
33:BL:9:LYS:HA	33:BL:56:GLU:HG2	1.53	0.89
36:BO:65:ARG:HH11	36:BO:68:GLN:NE2	1.70	0.89
36:BO:85:LEU:HB2	36:BO:86:LYS:HZ3	1.36	0.89
43:BV:17:VAL:O	43:BV:20:VAL:HG12	1.72	0.89
46:BY:122:ARG:NH2	46:BY:169:GLU:HG2	1.86	0.89
1:AA:17:U:H2'	1:AA:18:C:H6	1.37	0.89
2:AC:56:C:O2	30:BG:82:LEU:HB2	1.71	0.89
2:AC:72:A:H2'	2:AC:73:A:C8	2.07	0.89
9:AJ:45:ASP:HA	9:AJ:48:LYS:CD	2.02	0.89
20:AU:72:ARG:HA	20:AU:75:ILE:CD1	2.02	0.89
24:BA:1201:C:H41	24:BA:1241:A:H61	1.18	0.89
24:BA:1482:U:H2'	24:BA:1483:G:H4'	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1565:C:C4	24:BA:1567:A:H1'	2.06	0.89
24:BA:1783:A:C2	24:BA:2587:A:C2	2.61	0.89
24:BA:270(E):G:H2'	24:BA:270(F):U:C6	2.08	0.89
24:BA:600:G:H5'	29:BF:32:LEU:HD11	1.54	0.89
24:BA:974(A):C:H5'	24:BA:975:G:OP1	1.72	0.89
25:BB:55:U:H2'	25:BB:56:G:O4'	1.73	0.89
29:BF:37:VAL:HA	29:BF:184:TYR:CE2	2.08	0.89
30:BG:169:ALA:O	30:BG:172:LEU:HB3	1.71	0.89
32:BK:37:VAL:HG12	32:BK:38:LEU:N	1.86	0.89
33:BL:13:PRO:O	33:BL:16:LYS:HB2	1.71	0.89
37:BP:81:VAL:HG12	37:BP:82:ARG:N	1.87	0.89
46:BY:95:PRO:HG2	46:BY:131:ARG:N	1.86	0.89
26:BC:192:PHE:CE1	26:BC:196:LEU:HD13	2.08	0.89
32:BK:133:HIS:HB3	32:BK:136:VAL:CG2	2.03	0.89
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.08	0.89
1:AA:594:G:N2	1:AA:596:C:N4	2.21	0.89
4:AE:213:LEU:HD22	4:AE:214:ILE:HD13	1.55	0.89
7:AH:94:ALA:HB3	7:AH:117:ASP:O	1.73	0.89
10:AK:38:ILE:CG1	10:AK:118:VAL:HG11	2.00	0.89
50:B3:18:CYS:H	50:B3:33:VAL:CB	1.86	0.89
54:B7:12:LYS:O	54:B7:14:VAL:HG23	1.71	0.89
24:BA:1198:U:H2'	24:BA:1199:U:C6	2.07	0.89
24:BA:1473:G:H1	24:BA:1519:G:H1'	1.38	0.89
24:BA:832:G:P	36:BO:35:HIS:HB2	2.13	0.89
24:BA:878:A:C2	24:BA:879:G:H3'	2.07	0.89
27:BD:147:LEU:HB3	27:BD:185:VAL:HG22	1.55	0.89
30:BG:68:PRO:HG3	30:BG:72:ARG:HH12	1.35	0.89
31:BH:117:PRO:HB3	31:BH:123:PHE:CE1	2.08	0.89
32:BK:2:LYS:HZ2	32:BK:44:LEU:HD11	1.37	0.89
34:BM:109:LYS:HG2	34:BM:112:LEU:CB	2.03	0.89
34:BM:109:LYS:HG3	34:BM:110:GLY:N	1.88	0.89
36:BO:112:LEU:O	36:BO:129:ALA:HB3	1.71	0.89
36:BO:131:SER:O	36:BO:135:LEU:HD13	1.73	0.89
39:BR:44:LYS:HB2	39:BR:46:VAL:HG13	1.55	0.89
39:BR:76:LYS:NZ	39:BR:77:ALA:HB2	1.87	0.89
24:BA:1161:C:H1'	42:BU:22:VAL:HG11	1.55	0.89
45:BX:2:ARG:CD	45:BX:3:VAL:H	1.86	0.89
32:BK:128:LEU:HD13	32:BK:129:THR:H	1.38	0.89
24:BA:2247:A:H2'	24:BA:2248:C:C6	2.07	0.89
24:BA:131:G:H2'	24:BA:132:G:H8	1.34	0.89
4:AE:134:GLU:O	4:AE:138:LEU:HG	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:174:C:H2'	1:AA:175:C:H6	1.37	0.88
1:AA:716:A:O2'	1:AA:717:C:H5'	1.74	0.88
6:AG:112:VAL:HG23	6:AG:161:ASN:ND2	1.87	0.88
6:AG:57:ARG:HA	6:AG:202:LEU:HD22	1.53	0.88
10:AK:33:GLU:O	10:AK:36:LEU:HG	1.71	0.88
12:AM:60:ARG:N	12:AM:60:ARG:HH11	1.71	0.88
21:AV:18:LYS:HA	21:AV:18:LYS:HE3	1.55	0.88
48:B1:16:LEU:HA	48:B1:19:LEU:HD12	1.55	0.88
48:B1:17:GLU:O	48:B1:21:ARG:HG2	1.73	0.88
24:BA:1080:C:H1'	33:BL:126:MET:HA	1.53	0.88
24:BA:1188:U:O2	24:BA:1189:A:O4'	1.90	0.88
24:BA:1668:A:C6	24:BA:1993:U:H1'	2.06	0.88
24:BA:1918:A:H8	24:BA:1919:A:H62	1.10	0.88
24:BA:2212:A:H2'	24:BA:2213:U:C4	2.08	0.88
24:BA:2453:A:O2'	24:BA:2454:G:H5'	1.71	0.88
24:BA:2645:G:H4'	24:BA:2732:G:O2'	1.73	0.88
27:BD:136:ILE:CD1	27:BD:173:VAL:HG21	2.03	0.88
24:BA:1819:A:H5''	27:BD:178:PRO:CB	2.03	0.88
27:BD:229:VAL:HG13	27:BD:230:ASP:OD2	1.72	0.88
27:BD:24:ILE:O	27:BD:25:THR:HG23	1.72	0.88
37:BP:110:THR:O	37:BP:111:GLU:HG2	1.73	0.88
43:BV:74:ALA:CB	43:BV:105:VAL:HG23	2.02	0.88
26:BC:64:LEU:HD22	26:BC:191:ALA:HB1	1.53	0.88
26:BC:95:GLY:HA3	26:BC:99:ILE:HG13	1.54	0.88
1:AA:1074:G:H2'	1:AA:1075:C:O4'	1.73	0.88
1:AA:1344:C:H4'	11:AL:120:ARG:HB3	1.53	0.88
1:AA:373:A:H1'	1:AA:481:G:H1'	1.54	0.88
5:AF:11:ARG:NH1	5:AF:11:ARG:HB3	1.88	0.88
5:AF:179:ARG:HD2	5:AF:206:GLU:HG2	1.54	0.88
6:AG:117:ALA:O	6:AG:120:LEU:HG	1.72	0.88
13:AN:42:TRP:HE3	13:AN:43:SER:HA	1.38	0.88
17:AR:54:ARG:HE	17:AR:58:MET:HE2	1.36	0.88
24:BA:2346:A:H62	52:B5:37:ARG:HH12	0.90	0.88
24:BA:1312:U:C2'	24:BA:1313:U:C6	2.55	0.88
24:BA:1809:A:C6	50:B3:3:GLU:HG3	2.07	0.88
24:BA:684:G:O6	24:BA:774:A:C8	2.26	0.88
24:BA:751:A:H5'	43:BV:90:ARG:CZ	2.02	0.88
24:BA:997:G:H5''	41:BT:92:ARG:CZ	2.03	0.88
29:BF:31:HIS:O	29:BF:35:GLU:HG3	1.73	0.88
31:BH:152:ARG:HH21	31:BH:152:ARG:HG3	1.35	0.88
24:BA:1076:C:H4'	33:BL:93:ARG:NH2	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:55:VAL:HG13	34:BM:56:ASN:N	1.88	0.88
35:BN:18:LYS:HZ3	35:BN:44:LYS:HZ3	0.93	0.88
37:BP:126:PRO:HG2	37:BP:127:ILE:HG13	1.55	0.88
37:BP:22:LYS:HA	37:BP:99:PRO:HB3	1.54	0.88
39:BR:31:SER:HB3	39:BR:34:HIS:HB2	1.53	0.88
45:BX:23:ARG:HD2	45:BX:39:VAL:HG22	1.55	0.88
46:BY:127:LYS:HA	46:BY:164:ALA:CB	2.01	0.88
1:AA:1005:A:H3'	1:AA:1006:C:C6	2.09	0.88
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.36	0.88
1:AA:1308:U:H3'	15:AP:99:ARG:NH2	1.88	0.88
1:AA:558:G:O5'	1:AA:559:A:H3'	1.71	0.88
1:AA:679:C:H2'	1:AA:680:C:H6	1.35	0.88
1:AA:966:G:H2'	1:AA:967:C:C6	2.08	0.88
10:AK:83:ILE:HA	10:AK:137:VAL:HG22	1.56	0.88
10:AK:86:ILE:HG21	10:AK:133:LEU:HB2	1.53	0.88
11:AL:113:LYS:NZ	11:AL:119:ALA:HA	1.88	0.88
49:B2:50:VAL:HG13	49:B2:53:LEU:HD12	1.55	0.88
54:B7:38:GLY:O	54:B7:40:GLU:HG3	1.73	0.88
24:BA:1056:G:H21	24:BA:1104:C:N4	1.70	0.88
24:BA:1996:C:H2'	24:BA:1997:G:H4'	1.55	0.88
24:BA:2051:A:H1'	28:BE:141:ILE:HD13	1.53	0.88
24:BA:2238:G:O2'	24:BA:2239:G:H5''	1.73	0.88
3:AD:76:A:H3'	24:BA:2432:A:O2'	1.73	0.88
24:BA:270(G):C:H2'	24:BA:270(H):C:C6	2.08	0.88
24:BA:2866:U:O2	24:BA:2868:A:O2'	1.91	0.88
24:BA:475:U:H4'	24:BA:510:C:OP2	1.74	0.88
24:BA:51:G:H22	24:BA:120:U:H3	1.14	0.88
25:BB:68:C:H2'	25:BB:69:G:C8	2.08	0.88
33:BL:79:ARG:HD2	33:BL:134:MET:HE3	1.51	0.88
36:BO:23:PRO:HB3	36:BO:30:THR:HG23	1.55	0.88
38:BQ:20:LEU:C	38:BQ:20:LEU:HD13	1.94	0.88
39:BR:89:ARG:CG	39:BR:90:GLY:N	2.36	0.88
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.07	0.88
1:AA:843:U:H3	4:AE:37:ASN:ND2	1.71	0.88
2:AC:34:C:H2'	2:AC:35:A:C5'	2.01	0.88
5:AF:14:ILE:HG21	5:AF:179:ARG:CA	2.02	0.88
8:AI:36:ARG:HB3	8:AI:36:ARG:HH11	1.36	0.88
17:AR:33:THR:HG23	17:AR:87:ILE:HD11	1.52	0.88
20:AU:25:THR:HG22	20:AU:42:ARG:NH2	1.89	0.88
51:B4:10:LYS:CE	51:B4:15:ARG:HD3	2.04	0.88
24:BA:2624:G:H1'	51:B4:22:HIS:NE2	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:90:U:HO2'	24:BA:91:A:H8	0.89	0.88
27:BD:5:LYS:CD	27:BD:29:PRO:HA	2.00	0.88
27:BD:37:LEU:HD22	27:BD:63:ARG:HG3	1.55	0.88
28:BE:91:VAL:HG23	28:BE:180:ASN:OD1	1.74	0.88
30:BG:139:LEU:CD2	30:BG:142:PRO:HB3	2.03	0.88
31:BH:7:LEU:CB	31:BH:52:VAL:HG13	2.02	0.88
34:BM:86:PRO:O	34:BM:89:LYS:HD2	1.74	0.88
24:BA:2685:G:H4'	35:BN:67:LYS:HZ2	1.30	0.88
37:BP:35:VAL:HG13	37:BP:130:LYS:O	1.73	0.88
24:BA:957:A:OP2	37:BP:77:LYS:HD3	1.71	0.88
44:BW:14:SER:HB2	44:BW:16:LYS:HE3	1.55	0.88
46:BY:45:ASP:HA	46:BY:48:PHE:HD1	1.39	0.88
26:BC:6:ARG:C	26:BC:6:ARG:HD2	1.93	0.88
24:BA:2247:A:H2'	24:BA:2248:C:H6	1.35	0.88
1:AA:91:C:H2'	1:AA:92:G:C8	2.07	0.88
9:AJ:99:LEU:O	9:AJ:103:TRP:HB2	1.73	0.88
21:AV:41:VAL:HB	21:AV:42:PRO:CD	2.01	0.88
24:BA:1155:A:H2'	24:BA:1156:A:H5''	1.56	0.88
24:BA:1790:C:H3'	24:BA:1828:G:N2	1.88	0.88
24:BA:1967:C:N4	24:BA:1968:G:N2	2.22	0.88
24:BA:2662:A:H2'	24:BA:2663:G:H5'	1.52	0.88
24:BA:266:G:H2'	24:BA:267:C:O5'	1.72	0.88
24:BA:391:G:H2'	24:BA:392:C:C6	2.08	0.88
24:BA:396:G:OP1	50:B3:10:VAL:HG22	1.74	0.88
27:BD:34:VAL:O	27:BD:36:PRO:HD2	1.74	0.88
24:BA:2787:C:H1'	28:BE:61:ARG:CD	2.04	0.88
31:BH:127:GLU:HB3	31:BH:129:THR:N	1.87	0.88
35:BN:18:LYS:HZ3	35:BN:44:LYS:NZ	1.71	0.88
37:BP:112:GLU:O	37:BP:115:MET:HB3	1.74	0.88
38:BQ:99:LYS:N	38:BQ:99:LYS:HD2	1.85	0.88
42:BU:40:LEU:CD2	42:BU:55:ALA:HB2	2.02	0.88
25:BB:75:G:O2'	46:BY:27:VAL:HG22	1.72	0.88
3:AD:55:U:H2'	3:AD:57:G:N7	1.89	0.88
1:AA:416:G:H2'	1:AA:417:C:C6	2.07	0.88
4:AE:70:PHE:CD2	4:AE:163:PHE:HB3	2.08	0.88
5:AF:19:GLU:HG3	5:AF:54:ARG:HE	1.38	0.88
8:AI:33:TYR:CD1	8:AI:75:LEU:HG	2.07	0.88
50:B3:5:ILE:HD11	50:B3:10:VAL:CG2	2.03	0.88
24:BA:237:C:H2'	24:BA:238:C:C6	2.09	0.88
24:BA:2432:A:C2	50:B3:30:GLU:HA	2.08	0.88
24:BA:2447:G:O3'	24:BA:2499:C:P	2.31	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:265:A:N6	24:BA:266:G:C2	2.42	0.88
24:BA:484:C:H2'	24:BA:485:C:H6	1.37	0.88
24:BA:261:G:C4'	24:BA:608:A:H2	1.84	0.88
24:BA:966:G:H1'	24:BA:2267:A:N6	1.89	0.88
27:BD:228:PRO:HA	27:BD:231:HIS:HB2	1.56	0.88
28:BE:49:LEU:HD13	28:BE:76:ARG:HG2	1.53	0.88
29:BF:123:LEU:HD11	29:BF:191:ARG:HD3	1.56	0.88
30:BG:33:ARG:C	30:BG:33:ARG:HH21	1.77	0.88
31:BH:94:TYR:H	31:BH:95:ARG:NH2	1.71	0.88
34:BM:63:THR:OG1	34:BM:65:LYS:HD3	1.74	0.88
36:BO:77:ARG:HA	36:BO:115:LEU:HB2	1.52	0.88
37:BP:85:LYS:HZ1	47:BZ:10:THR:HG21	1.38	0.88
42:BU:19:LYS:HB3	42:BU:21:ARG:HH12	1.35	0.88
43:BV:42:ARG:HH21	43:BV:42:ARG:HB2	1.37	0.88
46:BY:155:LEU:O	46:BY:156:LYS:HB2	1.71	0.88
47:BZ:19:LYS:HZ3	47:BZ:41:ARG:HE	1.21	0.88
1:AA:218:C:H5'	1:AA:466:C:H42	1.38	0.88
24:BA:2246:G:H2'	24:BA:2247:A:C8	2.09	0.88
1:AA:674:G:H2'	1:AA:675:A:H8	1.35	0.88
1:AA:907:A:H2'	1:AA:908:A:C8	2.08	0.88
7:AH:77:PRO:HG2	7:AH:78:HIS:CD2	2.09	0.88
21:AV:32:LYS:HA	21:AV:50:ALA:HB3	1.56	0.88
22:AW:13:LEU:N	22:AW:13:LEU:HD12	1.89	0.88
24:BA:1072:C:N4	24:BA:1100:C:N4	2.20	0.88
24:BA:1176:G:H2'	24:BA:1177:A:H5'	1.55	0.88
24:BA:1617:C:H5'	24:BA:1618:A:OP2	1.72	0.88
24:BA:2269:A:C2	24:BA:2270:G:H1'	2.09	0.88
24:BA:515:A:O5'	24:BA:515:A:H8	1.55	0.88
24:BA:687:C:H4'	53:B6:4:THR:CG2	2.03	0.88
29:BF:41:LEU:HB2	29:BF:44:ARG:HH11	1.38	0.88
30:BG:4:ASP:HB3	30:BG:104:GLU:CG	2.02	0.88
41:BT:28:ARG:HB2	41:BT:38:THR:HG21	1.55	0.88
47:BZ:36:ILE:HG12	47:BZ:37:LEU:N	1.87	0.88
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.39	0.88
4:AE:58:ILE:O	4:AE:61:LEU:HB3	1.74	0.88
6:AG:13:ARG:HG2	6:AG:32:ALA:HB2	1.56	0.88
8:AI:30:LEU:HB3	8:AI:35:ALA:HB2	1.55	0.88
10:AK:37:ARG:HD2	10:AK:38:ILE:HD13	1.55	0.88
1:AA:761:G:H5'	19:AT:103:GLY:N	1.89	0.88
21:AV:64:GLU:O	21:AV:67:VAL:HG23	1.73	0.88
22:AW:43:LEU:HD13	22:AW:51:GLU:HB2	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:40:LYS:HG2	51:B4:41:PRO:CD	2.04	0.88
51:B4:40:LYS:CE	51:B4:44:THR:N	2.35	0.88
55:B8:10:ILE:C	55:B8:12:ASP:N	2.24	0.88
24:BA:1711:C:H2'	24:BA:1712:C:H6	1.37	0.88
24:BA:1268:A:H62	24:BA:2012:G:H21	1.16	0.88
24:BA:2254:C:C2'	24:BA:2255:G:H5'	2.03	0.88
24:BA:2268:A:C3'	24:BA:2269:A:H5''	2.03	0.88
24:BA:2051:A:C6	24:BA:2614:A:N7	2.42	0.88
24:BA:323:G:N2	24:BA:333:G:H1'	1.87	0.88
24:BA:574:C:O2'	24:BA:575:A:OP2	1.90	0.88
24:BA:71:A:C4'	24:BA:72:U:H5''	2.03	0.88
34:BM:85:ILE:HG23	34:BM:89:LYS:CD	2.03	0.88
35:BN:7:TYR:HD1	35:BN:7:TYR:H	1.05	0.88
38:BQ:55:ALA:HA	38:BQ:80:PHE:CD1	2.09	0.88
38:BQ:64:ARG:HD3	38:BQ:65:LEU:N	1.88	0.88
40:BS:50:ILE:HG23	40:BS:68:TYR:HB2	1.54	0.88
1:AA:1256:A:O2'	1:AA:1257:U:H1'	1.71	0.88
1:AA:246:A:O2'	1:AA:247:G:O4'	1.90	0.88
1:AA:88:C:O2'	1:AA:89:U:C6	2.27	0.88
4:AE:97:TRP:HZ2	4:AE:102:LEU:HD13	1.38	0.88
6:AG:30:LYS:HG2	6:AG:35:ARG:CD	2.04	0.88
8:AI:36:ARG:HB3	8:AI:36:ARG:NH1	1.87	0.88
13:AN:61:ALA:CB	13:AN:94:ALA:HB2	1.98	0.88
48:B1:59:LEU:HD11	48:B1:63:ARG:NE	1.88	0.88
24:BA:2434:A:O2'	24:BA:2435:A:H5''	1.73	0.88
24:BA:2448:A:OP2	24:BA:2498:C:P	2.32	0.88
24:BA:2631:G:N2	28:BE:61:ARG:NH1	2.21	0.88
24:BA:945:A:H62	24:BA:2448:A:H2	0.95	0.88
33:BL:130:SER:O	33:BL:133:SER:HB3	1.73	0.88
34:BM:33:LEU:O	34:BM:35:ARG:HG3	1.74	0.88
36:BO:15:ARG:HH22	36:BO:16:ARG:HB2	1.39	0.88
1:AA:253:U:H2'	1:AA:254:G:H8	1.37	0.88
1:AA:684:A:H1'	13:AN:39:PRO:HD2	1.57	0.88
5:AF:11:ARG:HH22	5:AF:179:ARG:H	0.91	0.88
9:AJ:22:LEU:HD23	9:AJ:63:LYS:HZ2	1.38	0.88
10:AK:95:VAL:HG22	10:AK:133:LEU:HD21	1.54	0.88
19:AT:10:VAL:CG2	19:AT:55:ASP:HB2	2.04	0.88
19:AT:60:ILE:HD13	19:AT:62:SER:OG	1.74	0.88
20:AU:33:ASP:CG	20:AU:34:TYR:H	1.75	0.88
24:BA:1809:A:N1	50:B3:3:GLU:CG	2.37	0.88
24:BA:1312:U:C2'	24:BA:1313:U:O4'	2.22	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1388:G:O2'	24:BA:1525:G:H5'	1.74	0.88
24:BA:1638:C:H2'	24:BA:1639:U:O4'	1.73	0.88
24:BA:1939:U:H1'	24:BA:2592:G:O4'	1.74	0.88
24:BA:2458:G:N7	24:BA:2490:G:C6	2.42	0.88
24:BA:392:C:H2'	24:BA:393:C:C6	2.09	0.88
24:BA:484:C:H2'	24:BA:485:C:C6	2.08	0.88
32:BK:5:LEU:HG	32:BK:17:GLN:O	1.74	0.88
36:BO:123:LEU:HD12	36:BO:130:PHE:CG	2.09	0.88
38:BQ:36:THR:HB	38:BQ:40:LYS:HD3	1.55	0.88
47:BZ:72:ARG:HB2	47:BZ:76:GLY:O	1.74	0.88
32:BK:132:PRO:HD3	32:BK:138:ILE:H	1.39	0.88
4:AE:175:ARG:HD3	4:AE:179:LYS:NZ	1.89	0.87
5:AF:85:ARG:HH21	5:AF:89:GLU:HB2	1.39	0.87
6:AG:24:GLU:OE1	6:AG:25:ARG:HB2	1.73	0.87
14:AO:27:LEU:HD23	14:AO:33:ARG:HD3	1.56	0.87
14:AO:54:LYS:HD2	14:AO:54:LYS:N	1.89	0.87
20:AU:74:ARG:N	20:AU:79:LEU:HD21	1.89	0.87
22:AW:62:LEU:HA	22:AW:65:LYS:CG	2.04	0.87
22:AW:83:ARG:O	22:AW:86:ARG:HG2	1.72	0.87
49:B2:3:ARG:NH1	49:B2:59:VAL:HB	1.87	0.87
49:B2:8:LEU:HB2	49:B2:33:GLN:HB3	1.54	0.87
24:BA:1006:C:O2	34:BM:106:MET:HG2	1.73	0.87
24:BA:1083:U:H1'	24:BA:1085:A:C8	2.09	0.87
24:BA:1086:A:H3'	24:BA:1087:G:H5'	1.54	0.87
24:BA:1142:U:H3'	24:BA:1142(A):A:C8	2.09	0.87
24:BA:1924:C:H2'	24:BA:1925:C:H6	1.39	0.87
24:BA:2016:U:O4'	51:B4:6:VAL:HG11	1.74	0.87
24:BA:2359:C:H2'	24:BA:2360:A:O4'	1.73	0.87
24:BA:2503:A:O2'	24:BA:2504:U:H5	1.57	0.87
24:BA:2862:G:H2'	24:BA:2863:C:C6	2.09	0.87
24:BA:366:C:H5''	24:BA:403:U:N3	1.89	0.87
24:BA:785:G:H2'	24:BA:786:C:C6	2.08	0.87
24:BA:2619:C:C5'	28:BE:152:LYS:HA	2.03	0.87
33:BL:7:VAL:HG12	33:BL:58:THR:HG22	1.57	0.87
34:BM:91:LEU:HG	34:BM:92:ALA:H	1.35	0.87
36:BO:55:ARG:HH21	36:BO:55:ARG:CB	1.87	0.87
42:BU:28:GLU:HG2	42:BU:94:LEU:HB2	1.56	0.87
26:BC:116:THR:HG23	26:BC:149:ILE:HB	1.53	0.87
26:BC:160:ARG:HD3	26:BC:161:ILE:N	1.89	0.87
26:BC:211:SER:CB	26:BC:213:TYR:HE1	1.87	0.87
1:AA:198:G:O2'	1:AA:199:G:H5'	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:160:ALA:O	5:AF:162:GLN:N	2.07	0.87
5:AF:19:GLU:HG3	5:AF:54:ARG:NE	1.90	0.87
10:AK:67:PRO:HD2	10:AK:77:GLU:H	1.39	0.87
15:AP:24:GLY:HA3	15:AP:66:LEU:CB	2.04	0.87
20:AU:58:LEU:HB3	20:AU:62:GLU:HB3	1.56	0.87
22:AW:83:ARG:HA	22:AW:86:ARG:HD3	1.56	0.87
24:BA:1058:G:H21	33:BL:116:ASN:HD21	1.21	0.87
24:BA:1212:G:C6	24:BA:1236:G:O6	2.27	0.87
24:BA:1517:G:N2	24:BA:1518:C:H1'	1.88	0.87
24:BA:1690:A:H62	24:BA:1697:G:N2	1.71	0.87
24:BA:311:A:H3'	24:BA:312:G:H8	1.39	0.87
24:BA:450:G:H5''	24:BA:451:C:OP2	1.74	0.87
27:BD:146:GLU:O	27:BD:189:CYS:HB3	1.73	0.87
29:BF:65:TRP:HZ2	29:BF:71:GLY:O	1.56	0.87
36:BO:105:LEU:O	36:BO:106:LEU:HG	1.74	0.87
36:BO:70:GLN:HB2	36:BO:110:TYR:OH	1.72	0.87
45:BX:7:VAL:HG22	45:BX:71:LYS:HG3	1.53	0.87
25:BB:93:C:H2'	25:BB:94:C:H6	1.39	0.87
25:BB:116:G:H2'	25:BB:117:G:O4'	1.72	0.87
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.09	0.87
1:AA:1206:G:H5'	5:AF:194:GLY:HA2	1.56	0.87
4:AE:222:ILE:HD12	4:AE:223:ILE:N	1.90	0.87
10:AK:29:SER:O	10:AK:33:GLU:HB2	1.73	0.87
19:AT:59:ILE:CD1	19:AT:71:PHE:HB3	2.04	0.87
49:B2:50:VAL:HG22	49:B2:53:LEU:HD12	1.54	0.87
24:BA:1321:A:H2'	24:BA:1321:A:N3	1.90	0.87
24:BA:1675:C:C2'	24:BA:1676:A:H5'	2.03	0.87
24:BA:183:C:H1'	24:BA:433:C:H1'	1.54	0.87
24:BA:2331:G:N2	24:BA:2385:C:C5	2.43	0.87
24:BA:2754:U:H2'	24:BA:2755:C:C5'	2.04	0.87
24:BA:2815:C:H4'	51:B4:42:PRO:HG2	1.56	0.87
24:BA:292:C:C2'	24:BA:293:U:N3	2.37	0.87
24:BA:748:G:H5'	24:BA:749:C:OP2	1.74	0.87
27:BD:234:GLY:H	27:BD:241:PRO:CG	1.87	0.87
27:BD:9:TYR:OH	27:BD:91:ARG:NH2	2.06	0.87
28:BE:132:HIS:O	28:BE:133:LYS:HB2	1.74	0.87
34:BM:26:LEU:HG	34:BM:30:ILE:HD11	1.56	0.87
36:BO:121:LYS:O	36:BO:137:LYS:HB2	1.73	0.87
37:BP:98:LYS:N	37:BP:98:LYS:HE3	1.89	0.87
3:AD:47:U:H2'	3:AD:48:C:H5''	1.55	0.87
1:AA:1005:A:H5''	1:AA:1006:C:H5	1.34	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1305:G:H2'	1:AA:1331:G:N2	1.88	0.87
1:AA:51:A:C6	1:AA:353:A:C2	2.62	0.87
8:AI:22:GLU:O	8:AI:26:ILE:HG13	1.74	0.87
11:AL:49:PRO:HD3	11:AL:78:LYS:NZ	1.88	0.87
17:AR:53:HIS:O	17:AR:56:LEU:HB3	1.74	0.87
18:AS:66:PRO:HD2	18:AS:71:ARG:NH2	1.88	0.87
19:AT:89:LEU:O	19:AT:92:ARG:HB3	1.75	0.87
24:BA:1005:C:O2	24:BA:1006:C:C5	2.27	0.87
24:BA:1203:G:N3	24:BA:1241:A:H8	1.70	0.87
24:BA:1488:G:C2'	24:BA:1489:U:H5'	2.04	0.87
24:BA:1537:C:H3'	24:BA:1537:C:C6	2.09	0.87
24:BA:2298:A:H2'	24:BA:2299:G:O4'	1.73	0.87
24:BA:2329:G:H1	24:BA:2386:C:H42	0.89	0.87
27:BD:206:LEU:CD2	27:BD:207:GLY:H	1.86	0.87
28:BE:133:LYS:HB3	28:BE:137:HIS:NE2	1.89	0.87
30:BG:169:ALA:HA	30:BG:172:LEU:HD23	1.53	0.87
24:BA:2312:U:C4'	30:BG:43:LEU:HD13	2.02	0.87
31:BH:13:LYS:HD2	31:BH:15:VAL:HA	1.53	0.87
31:BH:20:ALA:HB1	31:BH:21:PRO:CD	2.05	0.87
39:BR:36:TYR:OH	39:BR:50:SER:HB2	1.73	0.87
39:BR:89:ARG:HG2	39:BR:89:ARG:HH21	1.40	0.87
24:BA:1252:G:N2	41:BT:37:GLU:HG3	1.89	0.87
41:BT:67:ALA:HB1	41:BT:71:GLN:HE22	1.40	0.87
44:BW:32:PRO:HA	44:BW:77:LYS:HD2	1.56	0.87
5:AF:60:ALA:HB2	12:AM:92:THR:OG1	1.74	0.87
1:AA:977:A:H4'	1:AA:982:U:O4	1.75	0.87
6:AG:26:CYS:O	6:AG:33:MET:SD	2.33	0.87
53:B6:17:GLY:H	53:B6:21:ARG:HH22	0.87	0.87
36:BO:56:SER:HB3	54:B7:13:ARG:CZ	2.02	0.87
24:BA:112:U:H3'	24:BA:113:G:H5''	1.56	0.87
24:BA:1263:U:O3'	51:B4:10:LYS:HD3	1.74	0.87
24:BA:1800:C:C6	24:BA:1800:C:H3'	2.09	0.87
24:BA:2064:C:C1'	24:BA:2450:A:N6	2.37	0.87
24:BA:2493:U:H6	24:BA:2493:U:H5''	1.38	0.87
24:BA:763:G:H2'	24:BA:764:A:H5''	1.57	0.87
25:BB:27:C:H3'	25:BB:28:C:C6	2.09	0.87
28:BE:7:VAL:HG23	28:BE:24:THR:O	1.75	0.87
29:BF:125:LEU:HB2	29:BF:194:MET:O	1.74	0.87
32:BK:9:LEU:HA	32:BK:17:GLN:OE1	1.75	0.87
33:BL:75:SER:O	33:BL:78:ILE:HG22	1.72	0.87
34:BM:34:LEU:CD2	34:BM:120:LEU:HB2	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:47:ILE:CD1	35:BN:50:GLY:HA3	2.04	0.87
36:BO:96:THR:OG1	36:BO:102:ARG:HD3	1.74	0.87
24:BA:956:G:OP2	37:BP:77:LYS:HE2	1.73	0.87
24:BA:2112:G:N2	24:BA:2113:U:H3	1.73	0.87
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.09	0.87
1:AA:687:A:H61	1:AA:703:G:H1'	1.39	0.87
4:AE:92:TYR:H	4:AE:152:PHE:HA	1.39	0.87
5:AF:188:LEU:HD11	5:AF:190:ARG:HG3	1.56	0.87
7:AH:78:HIS:HB2	10:AK:104:ARG:HD3	1.54	0.87
53:B6:19:ARG:HB3	53:B6:23:ARG:NH2	1.87	0.87
54:B7:15:LYS:N	54:B7:22:VAL:HG13	1.89	0.87
24:BA:1312:U:H3'	24:BA:1313:U:H5	1.39	0.87
24:BA:1567:A:C2	27:BD:61:LEU:HD13	2.08	0.87
24:BA:1567:A:H2	27:BD:61:LEU:CD1	1.86	0.87
24:BA:1570:A:N6	24:BA:1571:A:H62	1.71	0.87
24:BA:1964:G:C2	24:BA:1967:C:H5	1.92	0.87
24:BA:2027:G:O2'	24:BA:2028:U:H5'	1.74	0.87
24:BA:2805:G:H2'	24:BA:2807:G:C4'	2.04	0.87
24:BA:283:A:O2'	24:BA:284:U:H5'	1.74	0.87
24:BA:292:C:H2'	24:BA:293:U:H3	1.37	0.87
27:BD:42:GLY:N	27:BD:60:ARG:HH12	1.71	0.87
28:BE:147:PRO:HB2	28:BE:149:ARG:NH2	1.88	0.87
31:BH:59:ARG:O	31:BH:62:LYS:HG2	1.74	0.87
35:BN:117:LEU:O	35:BN:119:PRO:HD3	1.75	0.87
37:BP:127:ILE:HD13	37:BP:129:THR:HG23	1.54	0.87
37:BP:75:THR:HB	37:BP:77:LYS:CE	2.04	0.87
38:BQ:64:ARG:HD3	38:BQ:65:LEU:H	1.39	0.87
42:BU:43:GLU:O	42:BU:44:LYS:HD3	1.75	0.87
44:BW:63:LYS:N	44:BW:72:LYS:HD2	1.90	0.87
32:BK:127:VAL:HG22	32:BK:141:LYS:HA	1.56	0.87
32:BK:87:LYS:HZ3	32:BK:121:LYS:N	1.71	0.87
26:BC:39:GLU:O	26:BC:178:ALA:HB2	1.73	0.87
1:AA:68:G:C5'	1:AA:171:A:H1'	2.04	0.87
1:AA:405:U:H5''	1:AA:406:G:O4'	1.74	0.87
1:AA:610:G:O2'	1:AA:611:A:H5'	1.74	0.87
1:AA:792:A:H2'	1:AA:794:A:H62	1.38	0.87
6:AG:65:ARG:HE	6:AG:72:GLU:N	1.72	0.87
9:AJ:69:VAL:CG2	9:AJ:104:LEU:HD21	2.04	0.87
12:AM:32:ALA:O	12:AM:33:GLN:HB2	1.73	0.87
12:AM:7:LYS:O	12:AM:97:GLU:HB2	1.74	0.87
13:AN:95:ILE:HA	13:AN:98:LEU:CG	2.02	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1238:G:O2'	24:BA:1239:G:H5'	1.74	0.87
24:BA:1264:G:N7	24:BA:1265:A:C5	2.42	0.87
24:BA:1513:C:N3	24:BA:1514:U:O4	2.07	0.87
24:BA:1534:G:N2	24:BA:1537:C:H41	1.72	0.87
24:BA:1742:C:H2'	24:BA:1743:G:O4'	1.75	0.87
24:BA:1796:U:H2'	24:BA:1797:C:C6	2.10	0.87
24:BA:2213:U:H5'	24:BA:2215:G:N7	1.89	0.87
24:BA:2421:G:H2'	24:BA:2422:A:H8	1.36	0.87
27:BD:44:ASN:HD22	27:BD:218:ARG:NH1	1.73	0.87
28:BE:173:VAL:HG22	28:BE:174:ASP:N	1.89	0.87
34:BM:14:VAL:HA	34:BM:138:LEU:HB2	1.54	0.87
39:BR:26:LEU:O	39:BR:88:ASP:HB2	1.73	0.87
39:BR:51:ALA:HB1	39:BR:73:LEU:HG	1.57	0.87
44:BW:61:GLY:HA3	44:BW:73:ARG:HD3	1.54	0.87
28:BE:127:ASP:CB	28:BE:135:HIS:HA	2.04	0.87
24:BA:154:G:H2'	24:BA:155:C:H6	1.40	0.87
4:AE:75:LYS:O	4:AE:75:LYS:HE3	1.75	0.87
7:AH:91:LEU:HD23	7:AH:91:LEU:C	1.95	0.87
10:AK:11:THR:HA	10:AK:14:ARG:CZ	2.05	0.87
10:AK:14:ARG:HH11	10:AK:14:ARG:CB	1.87	0.87
23:AX:6:ARG:HB3	23:AX:15:ARG:HH21	1.40	0.87
48:B1:28:MET:HG2	48:B1:32:PHE:HE1	1.37	0.87
53:B6:42:LEU:C	53:B6:44:PRO:HD2	1.95	0.87
54:B7:21:LYS:NZ	54:B7:21:LYS:HB2	1.89	0.87
24:BA:84:A:H1'	24:BA:103:A:N6	1.90	0.87
24:BA:1471:A:H62	24:BA:1519:G:N2	1.71	0.87
24:BA:1784:A:H2'	24:BA:1981:A:N7	1.90	0.87
24:BA:2063:C:H3'	24:BA:2064:C:H5''	1.55	0.87
3:AD:76:A:N3	24:BA:2432:A:O4'	2.07	0.87
24:BA:259:G:H2'	24:BA:260:G:H8	1.38	0.87
24:BA:414:C:H2'	24:BA:415:A:C8	2.07	0.87
24:BA:638:G:C2'	24:BA:639:U:H5'	2.05	0.87
24:BA:675:A:H2'	24:BA:676:A:N3	1.90	0.87
24:BA:728:G:H1'	24:BA:729:G:C8	2.09	0.87
31:BH:117:PRO:HD3	31:BH:123:PHE:CZ	2.10	0.87
31:BH:82:GLY:O	31:BH:136:ILE:HA	1.74	0.87
33:BL:105:LEU:O	33:BL:108:ALA:HB3	1.74	0.87
36:BO:114:ILE:O	36:BO:114:ILE:HG22	1.73	0.87
38:BQ:105:ARG:CA	38:BQ:105:ARG:CZ	2.53	0.87
42:BU:79:VAL:HG12	42:BU:81:TYR:CD1	2.08	0.87
1:AA:475:G:H2'	1:AA:476:G:C8	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:4:ASP:OD2	10:AK:7:ALA:HB3	1.73	0.87
13:AN:79:SER:HA	13:AN:104:GLN:HG3	1.54	0.87
19:AT:4:LYS:HD2	19:AT:5:VAL:N	1.89	0.87
48:B1:16:LEU:O	48:B1:20:VAL:HG12	1.74	0.87
24:BA:1022:G:H2'	24:BA:1025:G:O6	1.74	0.87
24:BA:1913:A:C4	24:BA:1918:A:C6	2.63	0.87
24:BA:2058:A:N3	24:BA:2059:A:N7	2.23	0.87
24:BA:2207:C:H2'	24:BA:2208:U:C4'	2.04	0.87
24:BA:2591:C:H2'	24:BA:2592:G:C8	2.10	0.87
24:BA:403:U:H2'	24:BA:403:U:O2	1.73	0.87
24:BA:568:U:H2'	24:BA:570:G:C8	2.09	0.87
24:BA:624:C:H3'	24:BA:624:C:C6	2.10	0.87
24:BA:781:A:H1'	27:BD:222:ARG:CZ	2.05	0.87
28:BE:137:HIS:CB	28:BE:138:PRO:HD2	2.05	0.87
29:BF:130:ALA:HB2	29:BF:142:TRP:HE3	1.36	0.87
24:BA:1257:C:O2'	29:BF:83:PHE:HB2	1.74	0.87
34:BM:4:TYR:HB2	41:BT:64:ARG:NH1	1.88	0.87
37:BP:26:TYR:HD1	37:BP:27:VAL:H	0.91	0.87
37:BP:7:MET:O	37:BP:70:PRO:HB2	1.75	0.87
24:BA:2020:A:OP2	41:BT:27:LEU:HD13	1.75	0.87
42:BU:64:HIS:HA	42:BU:97:LYS:CD	2.04	0.87
45:BX:96:ILE:CB	45:BX:102:CYS:O	2.20	0.87
46:BY:158:PRO:CB	46:BY:159:PRO:HD2	2.05	0.87
24:BA:2121:G:H1'	26:BC:167:LYS:HD2	1.57	0.87
26:BC:62:VAL:HG11	26:BC:195:ALA:CB	2.05	0.87
1:AA:913:A:O2'	1:AA:914:A:O4'	1.93	0.86
1:AA:1194:U:H4'	7:AH:22:GLY:O	1.73	0.86
12:AM:7:LYS:HG3	12:AM:71:LEU:HD11	1.55	0.86
17:AR:35:ARG:HH12	17:AR:59:MET:HG3	1.40	0.86
8:AI:97:PHE:CD2	20:AU:31:LEU:HD13	2.07	0.86
21:AV:11:VAL:HG22	21:AV:39:THR:HB	1.57	0.86
53:B6:5:TRP:HZ3	53:B6:12:ARG:HH11	1.22	0.86
24:BA:1005:C:O2	24:BA:1006:C:H5	1.57	0.86
24:BA:1142(A):A:N6	24:BA:1143:A:N7	2.23	0.86
24:BA:1568:G:OP1	27:BD:61:LEU:HB2	1.73	0.86
24:BA:2318:G:OP2	24:BA:2318:G:H8	1.57	0.86
24:BA:360:G:H2'	24:BA:361:G:C5'	2.05	0.86
24:BA:962:G:C2'	24:BA:963:U:C6	2.56	0.86
30:BG:75:LYS:HB3	30:BG:84:LYS:CB	2.04	0.86
32:BK:29:TYR:N	32:BK:29:TYR:HD1	1.73	0.86
34:BM:69:GLN:C	34:BM:70:LYS:HD3	1.94	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1665:A:H5''	35:BN:65:THR:CG2	2.04	0.86
37:BP:34:LEU:O	37:BP:103:MET:HB2	1.75	0.86
39:BR:26:LEU:HD21	39:BR:37:ALA:HB1	1.55	0.86
39:BR:95:HIS:N	39:BR:99:LYS:HB2	1.88	0.86
39:BR:95:HIS:CG	39:BR:96:GLY:N	2.42	0.86
46:BY:151:HIS:CA	46:BY:170:THR:HA	2.05	0.86
24:BA:363(D):G:N2	24:BA:363(E):U:H1'	1.90	0.86
1:AA:112:G:O2'	1:AA:113:G:H5'	1.75	0.86
1:AA:301:G:H21	1:AA:302:G:H1'	1.36	0.86
1:AA:872:A:O2'	1:AA:873:A:OP1	1.91	0.86
6:AG:173:TRP:NE1	6:AG:189:PRO:HB3	1.90	0.86
1:AA:939:G:C5'	9:AJ:102:ARG:HH12	1.88	0.86
10:AK:77:GLU:O	10:AK:78:GLN:HB2	1.74	0.86
14:AO:33:ARG:O	14:AO:84:LEU:HG	1.75	0.86
1:AA:624:C:H4'	18:AS:10:GLY:O	1.76	0.86
36:BO:45:LEU:CD1	54:B7:59:LYS:HZ1	1.80	0.86
24:BA:1291:C:O2'	24:BA:1292:U:H5'	1.74	0.86
24:BA:146:G:C3'	24:BA:147:U:H5''	2.04	0.86
24:BA:1475:G:N2	24:BA:1476:C:H5''	1.89	0.86
24:BA:1531:C:H2'	24:BA:1532:C:C5	2.09	0.86
24:BA:1784:A:H1'	24:BA:1785:A:C5	2.09	0.86
24:BA:2520:C:H2'	24:BA:2521:C:H6	1.40	0.86
24:BA:308:G:H22	24:BA:329:G:H2'	1.40	0.86
27:BD:202:LYS:HD2	27:BD:202:LYS:N	1.87	0.86
30:BG:75:LYS:HD3	30:BG:85:GLY:H	1.40	0.86
31:BH:85:LYS:HB3	31:BH:133:VAL:HG12	1.54	0.86
34:BM:17:ASP:HB3	34:BM:21:LYS:NZ	1.89	0.86
37:BP:75:THR:HG22	37:BP:77:LYS:HA	1.56	0.86
40:BS:54:ARG:C	40:BS:64:ARG:HB2	1.96	0.86
41:BT:53:ARG:HH11	41:BT:53:ARG:CB	1.86	0.86
42:BU:5:VAL:HG11	42:BU:37:VAL:CG1	2.03	0.86
42:BU:62:LEU:HD13	42:BU:97:LYS:C	1.96	0.86
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.10	0.86
1:AA:29:G:H5'	1:AA:296:U:OP1	1.74	0.86
1:AA:482:A:N3	1:AA:482:A:H2'	1.91	0.86
1:AA:552:U:H4'	14:AO:86:ARG:O	1.74	0.86
1:AA:7:G:H1'	1:AA:298:A:C8	2.10	0.86
1:AA:834:C:O2'	1:AA:835:U:H5'	1.75	0.86
4:AE:178:ARG:HA	4:AE:184:VAL:HG21	1.56	0.86
4:AE:83:MET:HB2	4:AE:234:PRO:HG3	1.57	0.86
4:AE:64:ARG:HG2	4:AE:66:GLY:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:11:ARG:NH2	5:AF:179:ARG:H	1.74	0.86
6:AG:94:LEU:CA	6:AG:97:LEU:HD12	2.02	0.86
9:AJ:73:MET:HA	9:AJ:90:GLU:O	1.75	0.86
9:AJ:90:GLU:O	9:AJ:91:VAL:HG23	1.74	0.86
1:AA:1230:C:H1'	15:AP:126:LYS:HG3	1.57	0.86
55:B8:7:VAL:HG13	55:B8:34:GLN:OE1	1.76	0.86
24:BA:1024:G:C5	24:BA:1025:G:C8	2.63	0.86
24:BA:1061:U:H5''	24:BA:1070:A:H4'	1.55	0.86
24:BA:1476:C:H42	24:BA:1516:U:H2'	1.41	0.86
24:BA:1543:A:C8	24:BA:1544:C:H1'	2.11	0.86
24:BA:2282:G:H1'	24:BA:2390:U:O4	1.76	0.86
24:BA:197:A:N6	24:BA:248:G:N2	2.21	0.86
24:BA:2776:A:H4'	24:BA:2777:G:C5'	2.04	0.86
24:BA:223:A:N1	24:BA:407:G:O2'	2.08	0.86
24:BA:1789:A:H4'	27:BD:222:ARG:CZ	2.05	0.86
27:BD:11:PRO:O	27:BD:23:GLU:HA	1.75	0.86
28:BE:60:ASN:CG	28:BE:61:ARG:H	1.78	0.86
29:BF:89:VAL:O	29:BF:91:GLY:N	2.08	0.86
31:BH:7:LEU:H	31:BH:8:PRO:HD2	1.39	0.86
36:BO:45:LEU:HD22	54:B7:59:LYS:CD	2.05	0.86
38:BQ:20:LEU:CD2	38:BQ:24:GLN:HG3	2.05	0.86
39:BR:77:ALA:HA	39:BR:80:LEU:HB2	1.57	0.86
26:BC:113:VAL:CB	26:BC:138:PRO:HG3	2.05	0.86
1:AA:1138:G:N3	1:AA:1138:G:H3'	1.89	0.86
1:AA:1494:G:N3	1:AA:1495:U:H5	1.73	0.86
5:AF:138:VAL:HG13	5:AF:149:ALA:HB3	1.57	0.86
9:AJ:29:LYS:HZ3	9:AJ:102:ARG:HB2	1.40	0.86
9:AJ:50:ILE:HD13	9:AJ:58:PRO:HA	1.56	0.86
10:AK:45:ILE:HD11	10:AK:48:TYR:HB3	1.54	0.86
14:AO:27:LEU:CD2	14:AO:33:ARG:HH11	1.88	0.86
20:AU:45:SER:HB3	20:AU:51:LEU:HD11	1.56	0.86
1:AA:1327:C:OP1	23:AX:20:LYS:HE2	1.75	0.86
55:B8:19:ARG:HD3	55:B8:22:ARG:CB	2.05	0.86
24:BA:1662:C:H2'	24:BA:1663:C:C6	2.10	0.86
24:BA:1743:G:H2'	24:BA:1746:G:O4'	1.75	0.86
24:BA:1807:G:C1'	24:BA:1811:G:H22	1.88	0.86
24:BA:2231:C:H2'	24:BA:2232:U:H6	1.39	0.86
24:BA:2305:A:C3'	24:BA:2306:C:H5''	2.04	0.86
24:BA:269:U:H3	24:BA:270:A:N6	1.73	0.86
24:BA:261:G:H4'	24:BA:608:A:C2	2.10	0.86
24:BA:64:A:HO2'	44:BW:71:GLY:HA3	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:88:C:H41	25:BB:89:G:H21	0.90	0.86
28:BE:49:LEU:CD1	28:BE:74:PRO:HB2	2.02	0.86
31:BH:41:MET:SD	31:BH:64:LEU:HD22	2.15	0.86
33:BL:23:VAL:HG13	33:BL:27:LEU:HD12	1.57	0.86
34:BM:70:LYS:HZ2	34:BM:86:PRO:HB3	1.39	0.86
35:BN:47:ILE:HD11	35:BN:50:GLY:CA	2.04	0.86
38:BQ:36:THR:O	38:BQ:111:LEU:HB3	1.76	0.86
38:BQ:53:HIS:HA	38:BQ:56:LYS:HD3	1.55	0.86
40:BS:104:ASN:HB3	40:BS:108:ARG:HH22	1.41	0.86
40:BS:28:VAL:HG13	40:BS:92:GLY:C	1.93	0.86
3:AD:50:G:H2'	3:AD:51:C:C6	2.10	0.86
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.10	0.86
3:AD:75:C:H3'	3:AD:76:A:O3'	1.76	0.86
4:AE:15:VAL:CG2	4:AE:209:ARG:HD2	2.05	0.86
5:AF:83:ARG:O	5:AF:85:ARG:N	2.07	0.86
14:AO:101:VAL:HG23	14:AO:104:VAL:HG21	1.58	0.86
16:AQ:39:LEU:HD13	16:AQ:44:LEU:HA	1.56	0.86
49:B2:10:LYS:HZ3	49:B2:12:PRO:CG	1.88	0.86
49:B2:35:ARG:HH12	49:B2:47:VAL:HG11	1.40	0.86
54:B7:62:LEU:HB3	54:B7:63:PRO:HD3	1.56	0.86
24:BA:1203:G:C2	24:BA:1241:A:C8	2.63	0.86
24:BA:1784:A:N3	24:BA:1785:A:C6	2.43	0.86
24:BA:1956:U:O5'	24:BA:1956:U:H6	1.55	0.86
24:BA:1966:A:N3	24:BA:2593:U:H5'	1.90	0.86
24:BA:2485:G:H4'	37:BP:125:LEU:O	1.73	0.86
24:BA:2781:A:H2'	24:BA:2782:G:O2'	1.74	0.86
24:BA:5:A:H2'	24:BA:6:A:C8	2.11	0.86
27:BD:11:PRO:HB2	27:BD:24:ILE:HG13	1.56	0.86
24:BA:2209:C:H1'	27:BD:150:LYS:NZ	1.89	0.86
27:BD:244:ARG:C	27:BD:252:TRP:CD1	2.49	0.86
28:BE:52:LEU:HA	28:BE:74:PRO:CA	2.04	0.86
32:BK:25:TYR:O	32:BK:29:TYR:HB2	1.76	0.86
37:BP:48:GLU:O	37:BP:51:ARG:CG	2.23	0.86
37:BP:75:THR:HG22	37:BP:77:LYS:N	1.90	0.86
39:BR:57:LYS:HG3	39:BR:68:GLN:OE1	1.76	0.86
40:BS:111:ARG:HB2	40:BS:111:ARG:NH1	1.88	0.86
43:BV:15:ARG:HB2	43:BV:16:LYS:HD3	1.57	0.86
1:AA:907:A:H2'	1:AA:908:A:H8	1.39	0.86
2:AC:74:C:C2'	2:AC:75:C:H5''	2.03	0.86
6:AG:125:HIS:HA	6:AG:149:ALA:HB3	1.58	0.86
6:AG:162:LEU:HD13	6:AG:181:MET:HG2	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:42:THR:HG23	12:AM:68:HIS:HA	1.57	0.86
14:AO:25:PRO:C	14:AO:27:LEU:H	1.79	0.86
48:B1:5:LEU:HD11	48:B1:9:ARG:HH11	1.36	0.86
24:BA:1438:U:C2'	24:BA:1439:A:H5'	2.05	0.86
24:BA:1872:A:H2'	24:BA:1878:G:C5'	2.04	0.86
24:BA:2045:C:O2'	51:B4:22:HIS:HB2	1.74	0.86
24:BA:2330:G:H1	24:BA:2385:C:H42	0.89	0.86
24:BA:2498:C:O2'	24:BA:2499:C:H5''	1.73	0.86
24:BA:428:A:H3'	24:BA:429:A:C8	2.10	0.86
24:BA:754:C:H4'	24:BA:1618:A:H2	1.40	0.86
24:BA:894:C:H2'	24:BA:895:U:C6	2.10	0.86
24:BA:962:G:H2'	24:BA:963:U:H6	1.32	0.86
27:BD:29:PRO:HB3	27:BD:82:ILE:HG22	1.55	0.86
28:BE:8:LYS:CE	28:BE:8:LYS:HA	1.99	0.86
31:BH:35:VAL:CG2	31:BH:72:ILE:HG23	2.05	0.86
31:BH:70:THR:O	31:BH:73:ALA:HB3	1.75	0.86
35:BN:21:CYS:CA	35:BN:41:ALA:HB2	2.04	0.86
37:BP:45:GLN:HA	37:BP:48:GLU:HG2	1.57	0.86
39:BR:62:LYS:HD2	39:BR:64:GLU:HB3	1.55	0.86
46:BY:18:LEU:HB3	46:BY:23:LYS:O	1.74	0.86
46:BY:4:ARG:HG2	46:BY:5:LEU:N	1.91	0.86
47:BZ:50:ASN:O	47:BZ:62:LEU:HB3	1.73	0.86
26:BC:190:ARG:HB2	26:BC:190:ARG:CZ	2.05	0.86
1:AA:173:U:C4'	1:AA:197:A:N3	2.38	0.86
1:AA:787:A:H2'	1:AA:788:U:H5'	1.58	0.86
2:AC:50:U:H2'	2:AC:51:C:C6	2.11	0.86
4:AE:150:SER:CA	4:AE:153:ARG:HB2	2.06	0.86
5:AF:14:ILE:CG2	5:AF:179:ARG:HA	2.04	0.86
10:AK:55:GLY:O	10:AK:57:PRO:HD3	1.75	0.86
11:AL:98:PRO:C	11:AL:100:GLY:H	1.77	0.86
17:AR:62:GLN:HA	17:AR:65:ARG:HH22	1.32	0.86
48:B1:52:ILE:O	48:B1:56:LEU:HD22	1.75	0.86
24:BA:1050:A:O2'	24:BA:1051:G:H5'	1.75	0.86
24:BA:1820:U:H5	27:BD:159:ALA:C	1.79	0.86
24:BA:2335:A:H2'	24:BA:2337:G:N7	1.91	0.86
24:BA:2456:C:C2'	24:BA:2457:U:H5'	2.04	0.86
24:BA:729:G:H2'	24:BA:730:C:C1'	2.05	0.86
24:BA:979:G:H22	24:BA:985:C:N4	1.74	0.86
27:BD:76:PRO:HA	27:BD:118:VAL:HG13	1.58	0.86
27:BD:134:ARG:HA	27:BD:168:ARG:NH1	1.90	0.86
27:BD:55:GLY:HA2	27:BD:218:ARG:HH11	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:131:ALA:CA	28:BE:134:ILE:HG13	2.06	0.86
28:BE:154:LYS:HZ1	28:BE:156:MET:HB2	1.41	0.86
28:BE:48:GLN:O	28:BE:77:ILE:HG13	1.75	0.86
30:BG:75:LYS:CB	30:BG:84:LYS:HB2	2.05	0.86
30:BG:92:VAL:HG11	30:BG:94:LEU:HD22	1.53	0.86
24:BA:1006:C:H1'	34:BM:106:MET:SD	2.15	0.86
34:BM:55:VAL:HG22	34:BM:123:TYR:C	1.95	0.86
36:BO:122:PRO:O	36:BO:123:LEU:HD23	1.74	0.86
37:BP:131:ILE:O	37:BP:132:VAL:HG13	1.75	0.86
37:BP:75:THR:HG22	37:BP:77:LYS:CA	2.06	0.86
40:BS:23:ARG:HH12	40:BS:88:ILE:HG22	1.39	0.86
41:BT:70:ARG:CG	41:BT:75:ASN:HA	2.05	0.86
44:BW:85:PRO:HG2	44:BW:87:GLN:HE21	1.40	0.86
45:BX:12:THR:HG21	45:BX:70:SER:O	1.76	0.86
46:BY:100:VAL:HG11	46:BY:133:ILE:HD13	1.57	0.86
46:BY:136:PHE:HB3	46:BY:138:GLU:OE2	1.74	0.86
46:BY:95:PRO:CB	46:BY:130:PRO:HA	2.05	0.86
32:BK:135:GLU:N	32:BK:135:GLU:CD	2.29	0.86
4:AE:7:VAL:HG23	4:AE:8:LYS:N	1.90	0.86
1:AA:282:A:N3	1:AA:282:A:H2'	1.91	0.86
1:AA:291:C:H3'	1:AA:305:G:H22	1.41	0.86
4:AE:50:GLU:HG3	4:AE:200:ILE:O	1.75	0.86
1:AA:1107:C:P	5:AF:172:ARG:HG2	2.16	0.86
6:AG:127:THR:O	6:AG:146:ILE:HA	1.74	0.86
6:AG:152:SER:O	6:AG:158:ILE:HG13	1.75	0.86
10:AK:38:ILE:HG13	10:AK:118:VAL:CG1	2.02	0.86
49:B2:3:ARG:HH22	49:B2:59:VAL:HG11	1.40	0.86
50:B3:41:PRO:HB3	50:B3:58:ARG:HD2	1.57	0.86
24:BA:1543:A:OP2	24:BA:1544:C:C6	2.29	0.86
24:BA:1708:C:C2'	24:BA:1709:U:H5''	2.05	0.86
24:BA:2457:U:H2'	24:BA:2458:G:O4'	1.76	0.86
24:BA:2459:A:OP2	24:BA:2460:U:C4	2.28	0.86
24:BA:2530:A:H3'	24:BA:2531:A:H5''	1.56	0.86
24:BA:2595:G:H1'	24:BA:2599:G:H22	1.39	0.86
24:BA:2602:A:O2'	24:BA:2603:G:OP2	1.93	0.86
24:BA:625:G:N2	24:BA:653:A:H61	1.74	0.86
24:BA:886:C:H6	24:BA:886:C:O5'	1.59	0.86
24:BA:996:A:H2'	24:BA:997:G:H8	1.39	0.86
24:BA:2734:A:H1'	28:BE:204:ALA:CB	2.06	0.86
28:BE:4:ILE:H	28:BE:27:LEU:HD22	1.39	0.86
30:BG:39:ILE:HG23	30:BG:157:ILE:CB	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:20:ALA:HB1	31:BH:21:PRO:HD2	1.55	0.86
33:BL:72:PRO:HG2	33:BL:111:LYS:NZ	1.90	0.86
37:BP:51:ARG:HH21	37:BP:55:VAL:HG21	1.40	0.86
46:BY:102:LEU:HD11	46:BY:125:LEU:HD12	1.58	0.86
46:BY:104:PHE:HD2	46:BY:104:PHE:N	1.72	0.86
46:BY:136:PHE:O	46:BY:138:GLU:HG3	1.75	0.86
46:BY:68:PRO:O	46:BY:90:VAL:HA	1.76	0.86
32:BK:135:GLU:H	32:BK:135:GLU:CD	1.78	0.86
1:AA:42:G:H2'	1:AA:43:C:C6	2.10	0.86
4:AE:163:PHE:HA	4:AE:185:ILE:O	1.76	0.86
5:AF:6:HIS:NE2	5:AF:8:ILE:HG22	1.91	0.86
6:AG:204:ILE:HD12	6:AG:204:ILE:H	1.41	0.86
6:AG:4:TYR:HE2	6:AG:8:VAL:HG22	1.41	0.86
10:AK:22:GLU:N	10:AK:63:LEU:HD11	1.89	0.86
1:AA:942:G:H21	11:AL:124:GLN:HE22	1.15	0.86
49:B2:10:LYS:HZ3	49:B2:12:PRO:CD	1.89	0.86
51:B4:4:HIS:C	51:B4:4:HIS:CD2	2.48	0.86
24:BA:649:G:O3'	54:B7:17:THR:HG21	1.74	0.86
24:BA:1312:U:H3	24:BA:1604:C:H41	1.22	0.86
24:BA:1799:G:H1	27:BD:157:ARG:HH12	0.90	0.86
24:BA:2051:A:N6	24:BA:2614:A:N7	2.24	0.86
24:BA:2749:A:H4'	31:BH:62:LYS:HG3	1.58	0.86
24:BA:972:G:H5''	24:BA:974:G:OP2	1.75	0.86
25:BB:27:C:H41	25:BB:56:G:H1	0.88	0.86
25:BB:88:C:H2'	25:BB:89:G:H5'	1.57	0.86
29:BF:197:ASP:O	29:BF:200:GLU:HG3	1.74	0.86
29:BF:18:ARG:HH12	29:BF:20:LEU:HD11	1.41	0.86
30:BG:60:LEU:O	30:BG:63:ILE:HG22	1.75	0.86
32:BK:21:VAL:O	32:BK:25:TYR:HB2	1.76	0.86
33:BL:108:ALA:O	33:BL:112:MET:HG2	1.74	0.86
35:BN:19:ILE:HG22	35:BN:43:VAL:HA	1.55	0.86
36:BO:76:LYS:NZ	36:BO:112:LEU:HD22	1.90	0.86
39:BR:9:ARG:HE	39:BR:12:PHE:HE2	1.24	0.86
39:BR:67:ARG:O	39:BR:71:ARG:HG3	1.76	0.86
3:AD:8:U:N3	3:AD:14:A:N6	2.21	0.86
26:BC:135:GLY:O	26:BC:136:LEU:HD23	1.74	0.86
1:AA:674:G:H1	1:AA:716:A:H61	1.24	0.86
5:AF:59:ARG:NE	5:AF:64:VAL:HA	1.89	0.86
14:AO:84:LEU:CB	14:AO:104:VAL:HG11	2.06	0.86
21:AV:50:ALA:HB1	21:AV:57:HIS:HB3	1.57	0.86
24:BA:2286:A:H61	52:B5:28:ARG:C	1.79	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1062:G:H5''	24:BA:1070:A:H5'	1.56	0.86
24:BA:1160:G:H2'	24:BA:1161:C:C5	2.10	0.86
24:BA:1314:C:H2'	24:BA:1315:C:H6	1.39	0.86
24:BA:2330:G:H1	24:BA:2385:C:N4	1.74	0.86
24:BA:2555:U:H5	24:BA:2556:C:C6	1.94	0.86
24:BA:1953:A:N3	24:BA:2560:C:H1'	1.90	0.86
24:BA:892:G:H2'	24:BA:893:C:C6	2.11	0.86
24:BA:996:A:H2'	24:BA:997:G:C8	2.10	0.86
25:BB:24:G:O5'	25:BB:24:G:H8	1.57	0.86
24:BA:2051:A:O2'	28:BE:141:ILE:HD11	1.76	0.86
28:BE:49:LEU:HA	28:BE:76:ARG:O	1.75	0.86
29:BF:160:ASN:HD21	29:BF:195:ASP:HB3	1.38	0.86
33:BL:10:LEU:HD12	33:BL:12:LEU:HD11	1.57	0.86
35:BN:62:VAL:O	35:BN:63:VAL:HG22	1.74	0.86
36:BO:124:LYS:HZ3	36:BO:141:ALA:HB3	1.41	0.86
36:BO:124:LYS:HZ3	36:BO:141:ALA:CB	1.88	0.86
24:BA:2416:C:H5''	36:BO:59:LEU:HB2	1.57	0.86
37:BP:46:GLN:O	37:BP:49:ALA:HB3	1.75	0.86
37:BP:6:ARG:HB2	37:BP:44:ALA:CB	2.05	0.86
39:BR:3:ARG:HG2	39:BR:4:LEU:H	1.40	0.86
24:BA:1224:G:H2'	42:BU:87:HIS:CE1	2.11	0.86
42:BU:66:ARG:NE	42:BU:95:LEU:HD12	1.90	0.86
43:BV:65:LEU:HB3	43:BV:68:ARG:HG2	1.57	0.86
44:BW:73:ARG:NH2	44:BW:76:ARG:HB2	1.91	0.86
5:AF:157:ILE:HG21	5:AF:164:ARG:HE	1.38	0.86
24:BA:2246:G:C2	24:BA:2247:A:C5	2.63	0.86
1:AA:1109:C:H2'	1:AA:1110:A:H8	1.39	0.85
4:AE:136:VAL:HA	4:AE:139:LYS:NZ	1.91	0.85
4:AE:71:VAL:HG13	4:AE:93:VAL:O	1.76	0.85
6:AG:11:LEU:O	6:AG:19:LEU:HD12	1.75	0.85
6:AG:198:VAL:HG23	6:AG:199:ASN:H	1.39	0.85
15:AP:77:ASN:O	15:AP:80:ARG:HG3	1.75	0.85
24:BA:1936:A:H5'	24:BA:1937:A:N3	1.91	0.85
24:BA:411:G:H1'	24:BA:2408:U:O4	1.74	0.85
24:BA:2612:C:O2'	51:B4:4:HIS:HB3	1.76	0.85
24:BA:2627:G:C2'	24:BA:2628:C:H5''	2.06	0.85
24:BA:656:G:H2'	24:BA:657:U:C6	2.09	0.85
24:BA:683:C:C2	24:BA:684:G:N2	2.44	0.85
24:BA:880:G:C2	24:BA:881:G:H1'	2.11	0.85
27:BD:27:THR:HG22	27:BD:29:PRO:HD2	1.56	0.85
24:BA:2053:G:H4'	28:BE:145:LYS:HZ1	1.37	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:176:ILE:HD13	28:BE:176:ILE:O	1.74	0.85
29:BF:201:VAL:HG12	29:BF:205:ARG:HE	1.41	0.85
33:BL:79:ARG:HD2	33:BL:134:MET:CE	2.05	0.85
33:BL:95:LYS:HB3	33:BL:98:ARG:HH21	1.41	0.85
35:BN:73:ASP:HB3	40:BS:79:HIS:CD2	2.10	0.85
37:BP:14:ARG:HE	37:BP:14:ARG:CA	1.88	0.85
37:BP:48:GLU:CA	37:BP:51:ARG:HG2	2.06	0.85
41:BT:13:LYS:O	41:BT:17:ILE:HG12	1.76	0.85
44:BW:12:VAL:HG23	44:BW:28:PHE:CA	2.06	0.85
44:BW:51:VAL:HG13	44:BW:81:VAL:HG21	1.56	0.85
26:BC:190:ARG:O	26:BC:193:ILE:HB	1.75	0.85
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.11	0.85
1:AA:495:A:H1'	1:AA:496:A:C8	2.11	0.85
1:AA:687:A:N6	1:AA:703:G:H1'	1.91	0.85
4:AE:169:LYS:HZ2	4:AE:170:GLU:HA	1.41	0.85
4:AE:208:ILE:HA	4:AE:211:ILE:HB	1.57	0.85
5:AF:20:SER:CB	5:AF:40:ARG:HH22	1.89	0.85
8:AI:98:LEU:HD22	8:AI:101:ALA:HB2	1.56	0.85
10:AK:53:VAL:O	10:AK:56:LYS:HB2	1.75	0.85
14:AO:36:VAL:O	14:AO:58:VAL:HG13	1.76	0.85
12:AM:50:ILE:HB	16:AQ:41:ARG:NE	1.89	0.85
19:AT:82:MET:O	19:AT:85:VAL:HB	1.76	0.85
49:B2:9:VAL:HG22	49:B2:53:LEU:O	1.73	0.85
50:B3:46:GLN:O	50:B3:52:THR:HB	1.77	0.85
24:BA:1819:A:H1'	24:BA:1821:A:C2	2.11	0.85
24:BA:2082:A:H2'	24:BA:2083:G:H8	1.40	0.85
24:BA:2548:G:H8	24:BA:2548:G:H5'	1.41	0.85
24:BA:292:C:H3'	24:BA:293:U:N3	1.90	0.85
24:BA:563:G:H1	24:BA:578:A:H61	1.24	0.85
24:BA:6:A:H4'	34:BM:132:ALA:O	1.76	0.85
27:BD:89:SER:OG	27:BD:159:ALA:N	2.08	0.85
28:BE:154:LYS:NZ	28:BE:156:MET:HB2	1.90	0.85
29:BF:168:ARG:HH21	29:BF:169:ASN:H	0.89	0.85
29:BF:196:LEU:HD22	29:BF:199:TRP:CD1	2.11	0.85
34:BM:46:VAL:CG1	34:BM:47:ALA:N	2.34	0.85
37:BP:22:LYS:CG	37:BP:23:GLY:H	1.88	0.85
37:BP:66:ILE:CG2	37:BP:67:ARG:H	1.84	0.85
28:BE:8:LYS:HE3	40:BS:2:ASN:OD1	1.75	0.85
24:BA:456:C:H5	44:BW:68:ARG:NH1	1.72	0.85
24:BA:2135:A:C4'	24:BA:2136:C:H5	1.88	0.85
26:BC:47:LEU:HG	26:BC:49:ILE:HG12	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1006:C:H2'	1:AA:1006:C:O2	1.74	0.85
1:AA:563:A:H2'	14:AO:15:ARG:HH12	1.39	0.85
1:AA:975:A:N7	1:AA:1365:G:N2	2.24	0.85
4:AE:31:TYR:CE2	4:AE:200:ILE:HG21	2.10	0.85
6:AG:26:CYS:HA	6:AG:31:CYS:HB3	1.59	0.85
15:AP:3:ARG:NH1	30:BG:113:ARG:HG3	1.90	0.85
16:AQ:9:LYS:HD3	16:AQ:10:ALA:N	1.90	0.85
17:AR:28:GLN:O	17:AR:32:LEU:HD23	1.76	0.85
52:B5:13:CYS:O	52:B5:53:LYS:HB3	1.75	0.85
54:B7:44:LYS:NZ	54:B7:44:LYS:HA	1.90	0.85
24:BA:1065:U:H3'	24:BA:1066:U:H5''	1.56	0.85
24:BA:1246:A:OP2	36:BO:15:ARG:HD3	1.75	0.85
24:BA:1605:C:H1'	24:BA:1610:A:C8	2.11	0.85
24:BA:1672:C:C3'	24:BA:1673:U:H5''	2.06	0.85
24:BA:1772:G:H21	24:BA:1774:C:H5'	1.38	0.85
24:BA:2075:U:H2'	24:BA:2076:U:H5''	1.57	0.85
24:BA:1782:C:N4	24:BA:2587:A:N6	2.24	0.85
24:BA:548:A:N6	24:BA:549:G:N2	2.24	0.85
27:BD:33:LEU:HD23	27:BD:33:LEU:H	1.37	0.85
30:BG:61:ALA:CB	30:BG:67:LYS:HE2	2.05	0.85
35:BN:97:ARG:HB3	35:BN:117:LEU:CD2	2.06	0.85
36:BO:38:GLN:O	36:BO:40:SER:N	2.08	0.85
37:BP:16:ARG:HG3	37:BP:72:LYS:CD	2.05	0.85
37:BP:42:ILE:HD12	37:BP:47:ILE:CG1	2.05	0.85
39:BR:71:ARG:HA	39:BR:104:GLY:O	1.74	0.85
40:BS:11:GLU:OE2	40:BS:11:GLU:N	2.08	0.85
40:BS:6:LEU:H	40:BS:6:LEU:HD13	1.39	0.85
43:BV:72:LYS:O	43:BV:106:ILE:HG22	1.76	0.85
47:BZ:72:ARG:O	47:BZ:75:LEU:HD12	1.76	0.85
26:BC:22:ILE:HG21	26:BC:190:ARG:HH12	1.40	0.85
1:AA:778:G:O2'	1:AA:779:C:H5'	1.76	0.85
9:AJ:22:LEU:HD23	9:AJ:63:LYS:NZ	1.89	0.85
10:AK:44:PHE:HE2	10:AK:109:ILE:HD13	1.41	0.85
21:AV:36:ARG:NE	21:AV:51:VAL:HG12	1.90	0.85
52:B5:48:VAL:O	52:B5:49:HIS:CB	2.22	0.85
24:BA:136:G:H2'	24:BA:137:C:C6	2.12	0.85
24:BA:1552:G:O2'	24:BA:1553:A:H5'	1.76	0.85
24:BA:1964:G:C2	24:BA:1967:C:C5	2.64	0.85
24:BA:270(Q):C:H2'	24:BA:270(R):G:C8	2.10	0.85
24:BA:410:G:H2'	24:BA:411:G:C8	2.12	0.85
24:BA:527:C:OP1	24:BA:527:C:H4'	1.73	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:957:A:N7	24:BA:959:A:N7	2.24	0.85
24:BA:1799:G:H22	27:BD:157:ARG:HH22	1.20	0.85
27:BD:7:LYS:NZ	27:BD:91:ARG:HD2	1.90	0.85
28:BE:101:ARG:HH22	28:BE:171:GLU:HG2	1.38	0.85
28:BE:23:VAL:HG22	28:BE:184:VAL:CG2	2.06	0.85
29:BF:131:GLY:CA	29:BF:138:GLU:HG3	2.06	0.85
31:BH:107:VAL:HG22	31:BH:152:ARG:HD3	1.55	0.85
31:BH:38:SER:H	31:BH:41:MET:CE	1.90	0.85
31:BH:45:VAL:HG13	31:BH:50:VAL:HG13	1.56	0.85
31:BH:35:VAL:HG21	31:BH:72:ILE:HG23	1.57	0.85
34:BM:54:VAL:O	34:BM:122:VAL:HG23	1.76	0.85
41:BT:50:ARG:HB2	41:BT:50:ARG:NH1	1.89	0.85
45:BX:73:ARG:CB	45:BX:77:PRO:HA	2.06	0.85
26:BC:18:LYS:HG2	26:BC:20:TYR:H	1.40	0.85
1:AA:1376:U:O4	9:AJ:10:ARG:HD2	1.76	0.85
1:AA:184:G:C4'	1:AA:224:C:H4'	2.06	0.85
1:AA:888:G:H21	1:AA:909:A:N6	1.73	0.85
10:AK:29:SER:CA	10:AK:32:LYS:HZ3	1.89	0.85
19:AT:104:LYS:HD3	19:AT:105:ALA:N	1.90	0.85
20:AU:53:ARG:HG2	20:AU:63:GLN:NE2	1.92	0.85
21:AV:40:ILE:HD11	21:AV:71:LEU:HA	1.58	0.85
49:B2:9:VAL:CG1	49:B2:54:VAL:HA	2.05	0.85
24:BA:1078:U:H5''	24:BA:1079:C:OP1	1.75	0.85
24:BA:1444(A):A:H8	24:BA:1460:A:C2'	1.88	0.85
24:BA:2319:G:H4'	24:BA:2320:A:OP1	1.75	0.85
24:BA:2523:G:H1'	24:BA:2765:A:N7	1.91	0.85
24:BA:2866:U:H1'	24:BA:2868:A:H1'	1.57	0.85
24:BA:800:A:C2	24:BA:802:A:C8	2.64	0.85
28:BE:59:VAL:HB	28:BE:62:PRO:CG	2.06	0.85
37:BP:111:GLU:HB2	37:BP:113:GLN:NE2	1.91	0.85
37:BP:126:PRO:O	37:BP:127:ILE:HG23	1.77	0.85
38:BQ:84:ALA:HB3	38:BQ:85:PRO:HD3	1.56	0.85
41:BT:31:SER:O	41:BT:33:ARG:N	2.09	0.85
41:BT:83:LEU:O	41:BT:90:VAL:HG22	1.76	0.85
43:BV:13:SER:HB3	43:BV:16:LYS:CE	2.06	0.85
43:BV:59:VAL:HG13	43:BV:63:ASP:HB3	1.58	0.85
26:BC:86:ALA:HB1	26:BC:153:ILE:HD12	1.58	0.85
24:BA:1580:A:H2'	24:BA:1581:G:N9	1.91	0.85
24:BA:2100:G:H1'	24:BA:2190:G:N2	1.91	0.85
1:AA:1068:G:N7	1:AA:1094:G:C8	2.44	0.85
1:AA:68:G:H5'	1:AA:171:A:C1'	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:677:U:H2'	1:AA:678:U:C6	2.12	0.85
1:AA:754:C:H5'	1:AA:755:G:C8	2.12	0.85
1:AA:959:A:H2'	1:AA:960:U:H4'	1.57	0.85
6:AG:56:VAL:O	6:AG:59:ARG:HB2	1.76	0.85
8:AI:77:ARG:O	8:AI:81:ILE:HG13	1.74	0.85
9:AJ:10:ARG:CB	9:AJ:10:ARG:HH11	1.87	0.85
10:AK:63:LEU:N	10:AK:63:LEU:HD13	1.92	0.85
12:AM:84:GLN:HA	12:AM:88:LEU:HD12	1.55	0.85
1:AA:266:G:H2'	19:AT:67:LYS:NZ	1.91	0.85
13:AN:84:VAL:HG21	20:AU:88:LYS:CD	2.06	0.85
23:AX:4:GLY:C	23:AX:6:ARG:H	1.77	0.85
50:B3:41:PRO:HB2	50:B3:57:GLU:OE2	1.76	0.85
52:B5:26:ASN:O	52:B5:27:LYS:HB2	1.74	0.85
55:B8:19:ARG:HB2	55:B8:19:ARG:HH11	1.39	0.85
24:BA:1071:G:C2'	24:BA:1072:C:H5'	2.06	0.85
24:BA:1338:G:H21	24:BA:1393:A:H2	1.24	0.85
24:BA:1846:G:N2	24:BA:1895:C:C2	2.45	0.85
24:BA:401:A:N6	24:BA:423:A:N1	2.24	0.85
24:BA:557:U:O2'	34:BM:112:LEU:HD11	1.76	0.85
24:BA:881:G:N2	24:BA:896:A:N6	2.24	0.85
24:BA:320:A:H3'	29:BF:136:THR:OG1	1.76	0.85
37:BP:25:ASP:CB	37:BP:102:VAL:HG12	2.06	0.85
47:BZ:11:ARG:CB	47:BZ:11:ARG:HH11	1.89	0.85
24:BA:718:A:H5''	24:BA:719:C:C5	2.12	0.85
1:AA:129(A):G:H4'	1:AA:130:A:O5'	1.76	0.85
1:AA:194:C:C2'	1:AA:195:A:H5''	2.07	0.85
1:AA:888:G:H21	1:AA:909:A:H62	0.89	0.85
4:AE:114:ARG:O	4:AE:118:LEU:HB2	1.77	0.85
4:AE:178:ARG:NE	4:AE:196:LEU:HD13	1.92	0.85
5:AF:36:ASP:O	5:AF:39:ILE:HB	1.74	0.85
6:AG:60:GLU:HA	6:AG:63:LYS:CD	2.07	0.85
9:AJ:11:GLN:NE2	9:AJ:12:LEU:HD12	1.91	0.85
13:AN:25:TYR:OH	13:AN:87:THR:HB	1.77	0.85
15:AP:37:THR:OG1	15:AP:56:LEU:HA	1.76	0.85
20:AU:63:GLN:OE1	20:AU:66:LEU:HD21	1.76	0.85
24:BA:1062:G:O2'	33:BL:134:MET:HB2	1.75	0.85
24:BA:107:C:H5'	24:BA:293:U:O4'	1.76	0.85
24:BA:1081:U:H5'	33:BL:122:ALA:HA	1.57	0.85
24:BA:1142(A):A:H3'	24:BA:1143:A:C5'	2.07	0.85
24:BA:1826:G:H8	24:BA:1826:G:O5'	1.60	0.85
24:BA:2323:G:H2'	24:BA:2324:C:C6	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2518:A:H5'	24:BA:2519:U:OP2	1.76	0.85
24:BA:2649:U:H2'	24:BA:2650:U:H6	1.41	0.85
24:BA:2708:G:H1'	38:BQ:71:GLN:HE22	1.40	0.85
24:BA:392:C:H2'	24:BA:393:C:H6	1.38	0.85
24:BA:635:C:O2'	24:BA:636:G:H5'	1.76	0.85
24:BA:745:G:O5'	24:BA:745:G:H8	1.57	0.85
24:BA:914:C:H3'	24:BA:914:C:H6	1.39	0.85
27:BD:37:LEU:HD11	27:BD:63:ARG:HA	1.57	0.85
27:BD:93:ALA:HB3	27:BD:105:ILE:HG23	1.59	0.85
28:BE:66:HIS:CD2	28:BE:71:GLY:H	1.94	0.85
29:BF:103:LYS:HA	29:BF:106:ARG:CG	2.05	0.85
31:BH:155:SER:OG	31:BH:159:GLU:HG3	1.77	0.85
31:BH:172:LYS:HB2	31:BH:172:LYS:NZ	1.90	0.85
31:BH:43:VAL:HA	31:BH:53:GLU:OE2	1.75	0.85
35:BN:24:VAL:HG21	35:BN:26:LYS:HE3	1.55	0.85
37:BP:59:ARG:HD2	37:BP:59:ARG:O	1.76	0.85
37:BP:78:PRO:O	37:BP:79:LEU:HD23	1.76	0.85
24:BA:532:A:N7	41:BT:45:TYR:HE2	1.74	0.85
42:BU:67:GLY:O	42:BU:93:GLU:O	1.95	0.85
42:BU:62:LEU:HD22	42:BU:98:GLU:HA	1.58	0.85
46:BY:56:VAL:HG22	46:BY:100:VAL:HG12	1.57	0.85
1:AA:1261:A:N6	1:AA:1274:G:H1'	1.90	0.85
1:AA:306:G:H2'	1:AA:307:C:C6	2.12	0.85
1:AA:817:C:N4	1:AA:1529:G:O6	2.10	0.85
1:AA:1191:A:C5'	5:AF:4:LYS:HZ2	1.89	0.85
10:AK:122:ARG:HD3	10:AK:123:GLU:H	1.40	0.85
13:AN:27:ASN:HB2	13:AN:55:LYS:CB	2.07	0.85
20:AU:49:LYS:HZ2	20:AU:49:LYS:H	1.20	0.85
49:B2:9:VAL:CG2	49:B2:10:LYS:H	1.84	0.85
50:B3:53:GLU:CG	50:B3:54:GLY:H	1.90	0.85
50:B3:5:ILE:HD12	50:B3:60:GLN:HE22	1.39	0.85
50:B3:65:ASP:HB2	50:B3:69:LYS:HE3	1.59	0.85
24:BA:1095:A:H2'	24:BA:1096:A:O4'	1.76	0.85
24:BA:1685:C:O2'	24:BA:1686:C:H5'	1.77	0.85
24:BA:183:C:N4	24:BA:214:G:H1	1.74	0.85
24:BA:415:A:N1	24:BA:416:C:O2	2.09	0.85
24:BA:541:C:H2'	24:BA:542:C:C6	2.11	0.85
24:BA:196:A:N1	24:BA:828:U:H5''	1.91	0.85
24:BA:860:U:H1'	24:BA:2267:A:H4'	1.59	0.85
24:BA:957:A:H4'	24:BA:958:U:OP1	1.76	0.85
28:BE:45:THR:HB	28:BE:81:ILE:HA	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:49:ASP:CA	30:BG:53:LEU:HD22	2.06	0.85
36:BO:123:LEU:HB2	36:BO:138:LEU:HB2	1.58	0.85
39:BR:10:ARG:NH2	39:BR:91:PRO:HA	1.92	0.85
39:BR:11:LYS:NZ	39:BR:15:ARG:NH2	2.24	0.85
40:BS:103:ARG:HH21	40:BS:103:ARG:CG	1.89	0.85
43:BV:5:ALA:HB1	43:BV:50:VAL:HG12	1.59	0.85
45:BX:14:LEU:HD13	45:BX:20:TYR:N	1.92	0.85
32:BK:123:LEU:HD11	32:BK:145:VAL:HA	1.56	0.85
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.11	0.85
1:AA:858:G:H1	1:AA:869:G:H3'	1.40	0.85
5:AF:40:ARG:HG2	5:AF:55:VAL:HG11	1.59	0.85
49:B2:55:ARG:HA	49:B2:55:ARG:NH2	1.92	0.85
24:BA:72:U:O4	24:BA:112:U:H1'	1.76	0.85
24:BA:1183:G:H3'	24:BA:1183:G:P	2.16	0.85
24:BA:1202:C:C5	24:BA:1203:G:H1'	2.12	0.85
24:BA:1444(A):A:H8	24:BA:1460:A:H2'	1.40	0.85
24:BA:1799:G:H8	27:BD:268:ARG:NH1	1.73	0.85
24:BA:196:A:H3'	24:BA:197:A:H5''	1.57	0.85
24:BA:2016:U:H2'	24:BA:2017:U:O4'	1.76	0.85
24:BA:961:C:H42	24:BA:2031:A:H1'	1.39	0.85
24:BA:2595:G:H1'	24:BA:2599:G:N2	1.91	0.85
24:BA:282:A:H2'	24:BA:284:U:OP1	1.77	0.85
24:BA:28:A:C2	24:BA:29:U:H1'	2.12	0.85
25:BB:89(A):A:C2'	25:BB:90:C:H5'	2.06	0.85
27:BD:121:PRO:O	27:BD:135:PHE:HE2	1.59	0.85
27:BD:8:PRO:O	27:BD:25:THR:CA	2.25	0.85
28:BE:12:THR:HA	28:BE:21:VAL:CB	2.05	0.85
30:BG:32:PRO:O	30:BG:33:ARG:HB3	1.73	0.85
31:BH:120:GLY:H	31:BH:140:LYS:NZ	1.75	0.85
31:BH:149:ARG:HG2	31:BH:153:LYS:HD2	1.59	0.85
31:BH:51:ARG:CA	31:BH:51:ARG:HE	1.85	0.85
31:BH:94:TYR:HE2	31:BH:96:ALA:HB2	1.38	0.85
45:BX:50:ARG:HB3	45:BX:50:ARG:NH2	1.91	0.85
26:BC:86:ALA:HB2	26:BC:149:ILE:HG23	1.57	0.85
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.12	0.85
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.42	0.85
1:AA:12:U:H2'	1:AA:13:U:C5	2.11	0.85
1:AA:663:A:H5'	1:AA:836:G:OP1	1.77	0.85
2:AC:4:G:H2'	2:AC:5:G:H8	1.42	0.85
4:AE:171:ALA:O	4:AE:174:VAL:HB	1.76	0.85
5:AF:11:ARG:HH22	5:AF:179:ARG:N	1.73	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:140:ASP:HA	9:AJ:143:ARG:NH1	1.92	0.85
17:AR:36:ILE:HG13	17:AR:59:MET:CE	2.07	0.85
21:AV:11:VAL:CG1	21:AV:15:LEU:HD11	2.06	0.85
22:AW:64:ASP:O	22:AW:67:ALA:HB3	1.76	0.85
22:AW:63:ILE:CD1	22:AW:80:ARG:HB3	2.07	0.85
48:B1:45:ILE:CG1	48:B1:46:ARG:N	2.40	0.85
24:BA:1274:A:OP1	24:BA:1646:C:N4	2.10	0.85
24:BA:1567:A:C5'	27:BD:59:LYS:HE2	2.06	0.85
24:BA:1996:C:H2'	24:BA:1997:G:C4'	2.07	0.85
24:BA:279:C:N4	24:BA:359:A:N3	2.25	0.85
30:BG:181:ARG:HG3	30:BG:182:LYS:H	1.42	0.85
30:BG:43:LEU:HD11	30:BG:88:ILE:O	1.77	0.85
31:BH:117:PRO:HA	31:BH:121:ILE:HD13	1.57	0.85
24:BA:270(P):C:C5'	32:BK:45:LYS:HD2	2.07	0.85
38:BQ:13:HIS:CE1	38:BQ:15:SER:H	1.94	0.85
39:BR:57:LYS:HD3	39:BR:57:LYS:O	1.77	0.85
40:BS:105:LEU:CD1	40:BS:106:SER:H	1.89	0.85
43:BV:86:LEU:HB3	43:BV:87:PRO:HD2	1.58	0.85
1:AA:1347:G:H2'	11:AL:107:ARG:O	1.78	0.84
1:AA:1528:U:O2'	1:AA:1529:G:H3'	1.77	0.84
1:AA:389:A:H2'	1:AA:390:C:C5'	2.06	0.84
1:AA:797:C:O2'	1:AA:798:G:H5'	1.75	0.84
11:AL:79:LEU:HD13	11:AL:101:PHE:HB3	1.58	0.84
12:AM:4:ILE:HG12	12:AM:100:THR:HB	1.57	0.84
14:AO:68:ALA:HB1	14:AO:99:HIS:HA	1.57	0.84
24:BA:1314:C:OP1	24:BA:1332:G:H5'	1.77	0.84
24:BA:2459:A:H2'	24:BA:2460:U:C4'	2.07	0.84
24:BA:2798:C:N4	24:BA:2801:A:H61	1.75	0.84
24:BA:569:U:OP1	24:BA:945:A:N6	2.09	0.84
27:BD:133:LEU:C	27:BD:136:ILE:HG13	1.97	0.84
28:BE:113:PHE:HA	28:BE:158:GLY:O	1.76	0.84
35:BN:43:VAL:HG11	35:BN:54:GLU:HA	1.59	0.84
35:BN:72:PRO:HB2	40:BS:84:GLN:HE21	1.40	0.84
36:BO:104:GLY:O	36:BO:105:LEU:HD12	1.77	0.84
37:BP:120:ILE:HG23	37:BP:123:HIS:HD2	1.38	0.84
38:BQ:102:GLU:HA	38:BQ:102:GLU:OE2	1.75	0.84
38:BQ:61:HIS:CA	38:BQ:64:ARG:HD2	2.07	0.84
40:BS:7:ILE:O	40:BS:11:GLU:OE2	1.95	0.84
41:BT:88:ILE:HB	42:BU:52:VAL:HA	1.59	0.84
46:BY:155:LEU:HD23	46:BY:163:LEU:HD23	1.59	0.84
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:105:G:H2'	1:AA:106:C:C6	2.12	0.84
1:AA:1191:A:H5''	5:AF:4:LYS:HZ2	1.38	0.84
1:AA:1267:C:O2	1:AA:1267:C:H2'	1.73	0.84
1:AA:1532:U:O2'	1:AA:1533:C:O4'	1.95	0.84
1:AA:351:G:H4'	1:AA:352:C:OP1	1.75	0.84
1:AA:370:C:H2'	1:AA:371:G:C8	2.12	0.84
6:AG:158:ILE:HG22	6:AG:162:LEU:HD11	1.58	0.84
8:AI:100:ASN:ND2	20:AU:23:LYS:O	2.10	0.84
9:AJ:46:ALA:HA	9:AJ:49:ILE:CD1	2.05	0.84
13:AN:25:TYR:HA	13:AN:89:ALA:CB	2.06	0.84
13:AN:42:TRP:HZ3	13:AN:47:VAL:HG21	1.42	0.84
13:AN:57:THR:HG23	13:AN:60:ALA:N	1.92	0.84
13:AN:79:SER:HA	13:AN:104:GLN:CG	2.07	0.84
12:AM:49:VAL:HG13	16:AQ:41:ARG:CD	2.07	0.84
21:AV:36:ARG:HH21	21:AV:75:ALA:HB3	1.41	0.84
52:B5:7:ILE:HG13	52:B5:9:LEU:O	1.77	0.84
24:BA:1024:G:C4	24:BA:1025:G:N7	2.44	0.84
24:BA:1175:U:H5'	24:BA:1176:G:OP2	1.76	0.84
24:BA:1171:G:H1	24:BA:1179:C:N4	1.74	0.84
24:BA:1475:G:H21	24:BA:1476:C:C5'	1.89	0.84
24:BA:1996:C:C5'	24:BA:1996:C:C6	2.57	0.84
24:BA:2377:A:C2	24:BA:2378:A:N7	2.44	0.84
24:BA:2459:A:OP2	24:BA:2460:U:C5	2.31	0.84
24:BA:1669:A:H4'	24:BA:2549:G:O3'	1.77	0.84
24:BA:2748:A:N1	24:BA:2756:U:C2	2.45	0.84
24:BA:300:A:O2'	24:BA:318:C:H1'	1.77	0.84
24:BA:623:G:C8	36:BO:105:LEU:HD13	2.11	0.84
24:BA:685:A:C1'	24:BA:688:U:O4	2.25	0.84
24:BA:689:A:H2'	24:BA:690:G:O4'	1.75	0.84
24:BA:709:U:H2'	24:BA:710:G:C8	2.12	0.84
24:BA:861:A:H62	24:BA:917:A:H62	0.86	0.84
24:BA:974(A):C:O2	24:BA:1186:G:N2	2.09	0.84
29:BF:139:PHE:HD2	29:BF:166:ALA:HB3	1.42	0.84
30:BG:30:GLU:C	30:BG:32:PRO:HA	1.96	0.84
31:BH:8:PRO:CA	31:BH:51:ARG:NH1	2.36	0.84
34:BM:128:HIS:N	34:BM:129:PRO:HD2	1.92	0.84
34:BM:89:LYS:CE	34:BM:89:LYS:H	1.91	0.84
35:BN:10:VAL:HG13	35:BN:11:ALA:N	1.91	0.84
43:BV:65:LEU:HG	43:BV:68:ARG:HD3	1.58	0.84
26:BC:113:VAL:O	26:BC:144:THR:HA	1.77	0.84
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:35:GLU:O	5:AF:38:ARG:HG2	1.76	0.84
6:AG:50:ARG:HD3	6:AG:51:PRO:N	1.92	0.84
7:AH:121:LYS:HZ2	7:AH:122:GLU:H	1.22	0.84
9:AJ:87:VAL:HB	9:AJ:156:TRP:CZ3	2.11	0.84
10:AK:4:ASP:HB2	10:AK:6:ILE:CG2	2.06	0.84
10:AK:10:LEU:CD1	10:AK:85:ARG:HB2	2.07	0.84
15:AP:19:LEU:HD12	15:AP:20:THR:N	1.91	0.84
18:AS:22:THR:HA	18:AS:33:ILE:HG13	1.58	0.84
23:AX:14:TRP:HZ3	23:AX:15:ARG:CZ	1.90	0.84
48:B1:33:GLN:O	48:B1:35:SER:N	2.10	0.84
54:B7:50:LEU:CG	54:B7:51:ALA:H	1.90	0.84
24:BA:146:G:H3'	24:BA:147:U:H5''	1.58	0.84
24:BA:1530:G:H22	24:BA:1541:U:H2'	1.42	0.84
24:BA:1559:G:N1	24:BA:1560:G:H4'	1.92	0.84
24:BA:1783:A:C2	24:BA:2587:A:H2	1.95	0.84
24:BA:1970:A:O2'	24:BA:1971:A:H5'	1.77	0.84
24:BA:1972:A:H2'	24:BA:1973:G:H8	1.42	0.84
24:BA:2020:A:P	41:BT:27:LEU:HD13	2.17	0.84
24:BA:2392:A:H2'	24:BA:2393:A:C5'	2.06	0.84
24:BA:2473:U:O2	24:BA:2473:U:H2'	1.76	0.84
24:BA:273:G:H2'	24:BA:273(A):G:H8	1.40	0.84
24:BA:385:C:O2'	24:BA:386:G:H5''	1.76	0.84
24:BA:572:A:H2	24:BA:2033:A:C2	1.96	0.84
24:BA:70:G:O2'	24:BA:71:A:H5'	1.77	0.84
27:BD:37:LEU:CD1	27:BD:63:ARG:HA	2.07	0.84
30:BG:5:VAL:HG12	30:BG:9:ARG:HH12	1.40	0.84
24:BA:2748:A:O2'	31:BH:66:GLY:HA3	1.76	0.84
33:BL:78:ILE:HD11	33:BL:127:ILE:HG23	1.59	0.84
35:BN:6:THR:HA	35:BN:7:TYR:CD1	2.12	0.84
37:BP:42:ILE:CD1	37:BP:47:ILE:HG13	2.07	0.84
38:BQ:42:LYS:O	38:BQ:45:ARG:HB3	1.77	0.84
42:BU:73:SER:HB3	42:BU:89:GLN:NE2	1.92	0.84
46:BY:10:ARG:HG2	46:BY:36:LYS:HD2	1.58	0.84
32:BK:69:LYS:CE	32:BK:70:LYS:HG3	2.06	0.84
26:BC:26:ALA:O	26:BC:29:VAL:HG12	1.77	0.84
1:AA:1149:C:H6	1:AA:1149:C:O5'	1.61	0.84
1:AA:1404:C:H1'	1:AA:1499:A:H2	1.36	0.84
1:AA:558:G:H5''	1:AA:559:A:H5''	1.58	0.84
4:AE:56:ARG:HH11	4:AE:56:ARG:CB	1.89	0.84
6:AG:29:PRO:O	6:AG:30:LYS:HG3	1.78	0.84
19:AT:4:LYS:O	19:AT:5:VAL:HG23	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:52:ILE:HA	48:B1:55:LEU:HD22	1.60	0.84
24:BA:1363:C:H4'	24:BA:1809:A:N7	1.92	0.84
24:BA:1518:C:H3'	24:BA:1519:G:H5''	1.58	0.84
24:BA:1270:C:O2'	24:BA:1648:C:OP2	1.95	0.84
24:BA:2323:G:H2'	24:BA:2324:C:H6	1.41	0.84
24:BA:2576:G:C4'	24:BA:2577:A:H5'	2.05	0.84
25:BB:45:A:H1'	30:BG:95:ARG:HH11	1.43	0.84
27:BD:159:ALA:O	27:BD:196:VAL:HG21	1.77	0.84
27:BD:182:LEU:HD12	27:BD:270:ILE:CD1	2.08	0.84
24:BA:1566:A:C5	27:BD:215:LEU:HD22	2.12	0.84
33:BL:12:LEU:HD22	33:BL:19:PRO:HG3	1.59	0.84
33:BL:52:ILE:HG12	33:BL:80:LYS:HG2	1.58	0.84
37:BP:45:GLN:O	37:BP:48:GLU:N	2.09	0.84
40:BS:26:ASP:CG	40:BS:27:THR:H	1.80	0.84
42:BU:11:GLN:OE1	42:BU:21:ARG:HB3	1.76	0.84
42:BU:40:LEU:HG	42:BU:55:ALA:N	1.92	0.84
37:BP:136:ALA:HB1	46:BY:76:LEU:HD13	1.58	0.84
32:BK:87:LYS:HZ3	32:BK:121:LYS:H	0.86	0.84
24:BA:2117:A:H61	24:BA:2171:A:H61	1.24	0.84
5:AF:157:ILE:HD12	5:AF:164:ARG:CZ	2.08	0.84
24:BA:718:A:H5''	24:BA:719:C:C6	2.11	0.84
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.13	0.84
1:AA:1418:A:N1	1:AA:1483:A:C6	2.45	0.84
4:AE:25:ASN:HD21	4:AE:27:LYS:CG	1.90	0.84
6:AG:122:ARG:HA	6:AG:134:ASP:HB2	1.60	0.84
7:AH:73:ASN:C	7:AH:73:ASN:HD22	1.79	0.84
8:AI:30:LEU:CA	8:AI:75:LEU:HD11	2.03	0.84
10:AK:46:LYS:CE	10:AK:64:LYS:HA	2.06	0.84
12:AM:82:ILE:O	12:AM:86:MET:HB2	1.77	0.84
1:AA:376:G:OP1	18:AS:6:LEU:HD13	1.78	0.84
1:AA:191:G:O2'	22:AW:102:GLY:HA2	1.76	0.84
22:AW:26:ASN:ND2	22:AW:27:LYS:H	1.74	0.84
49:B2:6:VAL:HB	49:B2:35:ARG:HE	1.42	0.84
49:B2:45:GLY:HA2	49:B2:48:GLU:OE1	1.76	0.84
52:B5:36:LEU:O	52:B5:51:GLU:HB3	1.77	0.84
24:BA:1087:G:N2	24:BA:1103:A:H2'	1.90	0.84
24:BA:1528:A:H2	24:BA:1545:A:H61	1.25	0.84
24:BA:1754:C:H2'	24:BA:1755:A:C1'	2.08	0.84
24:BA:1970:A:H2'	24:BA:1971:A:OP2	1.78	0.84
24:BA:2448:A:OP2	24:BA:2498:C:OP1	1.95	0.84
24:BA:673:C:C2'	24:BA:674:G:H5'	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:997:G:O2'	24:BA:998:C:C5'	2.26	0.84
24:BA:2619:C:H4'	28:BE:152:LYS:HA	1.58	0.84
24:BA:674:G:H5''	29:BF:74:ARG:NH1	1.92	0.84
30:BG:45:GLU:C	30:BG:47:LYS:H	1.81	0.84
30:BG:61:ALA:HB2	30:BG:67:LYS:CB	2.03	0.84
34:BM:107:LEU:HD12	34:BM:116:LEU:CD2	2.08	0.84
34:BM:89:LYS:N	34:BM:89:LYS:NZ	2.26	0.84
35:BN:64:ARG:HH11	35:BN:67:LYS:C	1.80	0.84
37:BP:134:ARG:HD3	37:BP:137:TYR:CA	2.07	0.84
40:BS:102:ILE:C	40:BS:104:ASN:H	1.79	0.84
41:BT:93:LYS:HG2	42:BU:10:LYS:NZ	1.92	0.84
42:BU:32:THR:HA	42:BU:64:HIS:O	1.76	0.84
45:BX:9:LYS:HB2	45:BX:9:LYS:NZ	1.93	0.84
46:BY:127:LYS:HZ2	46:BY:165:VAL:H	1.24	0.84
26:BC:185:LEU:O	26:BC:189:ILE:HG13	1.78	0.84
1:AA:1256:A:H61	1:AA:1278:U:H2'	1.43	0.84
1:AA:599:C:H4'	10:AK:130:GLY:CA	2.02	0.84
4:AE:139:LYS:HG3	4:AE:140:HIS:N	1.91	0.84
4:AE:70:PHE:O	4:AE:92:TYR:HB2	1.78	0.84
6:AG:20:TYR:CA	6:AG:26:CYS:O	2.22	0.84
8:AI:45:LEU:HG	8:AI:59:TYR:HD1	1.38	0.84
12:AM:47:PHE:HZ	12:AM:65:LEU:HB3	1.43	0.84
16:AQ:22:THR:HB	16:AQ:33:VAL:HG21	1.56	0.84
19:AT:67:LYS:HA	19:AT:70:ARG:NH2	1.93	0.84
52:B5:19:ARG:HH22	52:B5:41:PRO:HG3	1.39	0.84
54:B7:50:LEU:HG	54:B7:51:ALA:H	1.41	0.84
54:B7:54:GLU:O	54:B7:57:ARG:HB3	1.78	0.84
24:BA:1438:U:H3	24:BA:1553:A:N6	1.75	0.84
24:BA:1592:C:H2'	24:BA:1593:G:H8	1.41	0.84
24:BA:2068:U:O2	24:BA:2430:A:N1	2.11	0.84
24:BA:2627:G:N2	24:BA:2628:C:C6	2.45	0.84
24:BA:2744:G:O2'	24:BA:2745:C:H5'	1.76	0.84
24:BA:28:A:H1'	24:BA:513:A:N1	1.92	0.84
24:BA:349:G:H3'	24:BA:350:U:H5	1.41	0.84
24:BA:784:A:N6	24:BA:792:G:N3	2.25	0.84
29:BF:12:LEU:O	29:BF:14:PRO:HD3	1.76	0.84
29:BF:34:TRP:HD1	29:BF:38:ARG:NH1	1.74	0.84
30:BG:53:LEU:HD23	30:BG:70:VAL:HA	1.59	0.84
31:BH:73:ALA:O	31:BH:76:VAL:HG23	1.77	0.84
31:BH:94:TYR:H	31:BH:95:ARG:HH21	1.23	0.84
34:BM:100:GLU:HB3	34:BM:104:LYS:HE3	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:8:LEU:HD11	35:BN:19:ILE:CD1	2.08	0.84
36:BO:79:ARG:HE	36:BO:83:VAL:HG11	1.42	0.84
24:BA:2467:C:O2'	37:BP:120:ILE:HG21	1.77	0.84
39:BR:11:LYS:HZ1	39:BR:15:ARG:HH22	1.22	0.84
24:BA:2125:G:H21	24:BA:2173:A:N6	1.75	0.84
26:BC:86:ALA:HB1	26:BC:153:ILE:CD1	2.08	0.84
1:AA:1095:U:OP2	1:AA:1108:G:N1	2.11	0.84
1:AA:1192:C:N4	1:AA:1193:G:C5	2.46	0.84
6:AG:158:ILE:O	6:AG:162:LEU:HG	1.78	0.84
10:AK:9:MET:HA	10:AK:26:VAL:HG21	1.59	0.84
12:AM:25:GLU:HA	12:AM:28:ARG:HD2	1.58	0.84
15:AP:22:ILE:HB	15:AP:25:ILE:HG13	1.60	0.84
24:BA:1274:A:N3	24:BA:1297:C:H1'	1.93	0.84
24:BA:2553:G:C8	24:BA:2583:G:H4'	2.13	0.84
27:BD:183:ARG:HA	27:BD:268:ARG:HA	1.57	0.84
24:BA:1804:C:H5''	27:BD:250:TRP:CH2	2.12	0.84
29:BF:4:VAL:HG12	29:BF:20:LEU:CD1	2.08	0.84
37:BP:48:GLU:O	37:BP:52:VAL:HG23	1.77	0.84
40:BS:59:THR:N	40:BS:61:PHE:CE1	2.45	0.84
24:BA:532:A:H4'	41:BT:28:ARG:NH1	1.93	0.84
45:BX:31:LEU:HB3	45:BX:32:PRO:CD	2.07	0.84
24:BA:2365:G:OP1	47:BZ:55:ARG:HG2	1.78	0.84
1:AA:1064:G:N3	1:AA:1066:C:N3	2.26	0.84
2:AC:57:A:C1'	30:BG:82:LEU:HD13	2.07	0.84
4:AE:152:PHE:O	4:AE:154:LEU:N	2.11	0.84
10:AK:103:VAL:HB	10:AK:108:GLY:HA3	1.58	0.84
14:AO:85:ILE:HD11	14:AO:87:GLY:HA2	1.57	0.84
16:AQ:26:ARG:HH11	16:AQ:47:LEU:HG	1.42	0.84
51:B4:30:LEU:HD22	51:B4:39:MET:SD	2.18	0.84
24:BA:1309:G:H2'	24:BA:1310:G:C5'	2.07	0.84
24:BA:1602:U:C6	24:BA:1602:U:H3'	2.12	0.84
24:BA:1672:C:C5	24:BA:1673:U:H6	1.95	0.84
24:BA:1697:G:H5''	24:BA:1698:A:C5'	2.06	0.84
24:BA:242:G:H3'	54:B7:4:MET:CE	2.07	0.84
24:BA:2448:A:OP2	24:BA:2498:C:O5'	1.94	0.84
24:BA:2602:A:O2'	47:BZ:2:ALA:HB2	1.77	0.84
24:BA:343:C:O2'	24:BA:344:G:H5'	1.78	0.84
25:BB:88:C:H41	25:BB:89:G:N2	1.74	0.84
28:BE:103:ASP:O	28:BE:104:VAL:HG23	1.78	0.84
28:BE:184:VAL:HG23	28:BE:186:GLY:H	1.41	0.84
29:BF:34:TRP:CH2	36:BO:8:PRO:HD2	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:34:LEU:HD21	30:BG:176:LEU:HD21	1.57	0.84
31:BH:7:LEU:N	31:BH:8:PRO:HD2	1.93	0.84
35:BN:19:ILE:C	35:BN:19:ILE:HD12	1.98	0.84
36:BO:97:PRO:HA	36:BO:102:ARG:NE	1.93	0.84
40:BS:27:THR:HG23	40:BS:52:ILE:O	1.77	0.84
43:BV:5:ALA:HB2	43:BV:54:ALA:CB	2.06	0.84
24:BA:1496:A:C2	24:BA:1498:C:N4	2.46	0.84
24:BA:1582:C:H5''	24:BA:1583:A:OP2	1.76	0.84
1:AA:1240:U:OP2	9:AJ:116:ALA:N	2.10	0.84
1:AA:1266:G:H2'	1:AA:1268:A:OP2	1.77	0.84
1:AA:1336:C:H4'	1:AA:1337:G:C2	2.12	0.84
1:AA:595:G:C8	1:AA:641:U:C4	2.66	0.84
4:AE:88:ALA:CB	4:AE:219:VAL:HG22	2.08	0.84
5:AF:84:ILE:CG1	5:AF:101:LEU:HD22	2.08	0.84
6:AG:105:VAL:HG21	6:AG:121:VAL:CG2	2.07	0.84
10:AK:18:ARG:HD2	10:AK:18:ARG:N	1.88	0.84
18:AS:60:LEU:HA	18:AS:64:ALA:HB3	1.60	0.84
22:AW:64:ASP:O	22:AW:67:ALA:N	2.11	0.84
24:BA:458:G:O2'	53:B6:40:TRP:CE2	2.30	0.84
24:BA:1464:C:O2'	24:BA:1528:A:H1'	1.77	0.84
24:BA:1710:C:H2'	24:BA:1711:C:C6	2.11	0.84
24:BA:2389:G:H5''	24:BA:2390:U:O5'	1.76	0.84
25:BB:99:A:O2'	25:BB:100:G:H5'	1.78	0.84
24:BA:2210:G:N7	27:BD:150:LYS:HA	1.93	0.84
30:BG:61:ALA:CB	30:BG:67:LYS:HB3	2.02	0.84
33:BL:79:ARG:HH11	33:BL:134:MET:HE2	1.41	0.84
35:BN:24:VAL:CG2	35:BN:26:LYS:HG2	2.08	0.84
24:BA:623:G:C3'	36:BO:105:LEU:HD22	2.08	0.84
36:BO:13:ASN:ND2	36:BO:14:LYS:N	2.25	0.84
37:BP:85:LYS:NZ	47:BZ:10:THR:HG21	1.93	0.84
46:BY:122:ARG:HH22	46:BY:169:GLU:CG	1.89	0.84
3:AD:15:G:H1	3:AD:48:C:H41	1.21	0.84
26:BC:119:VAL:O	26:BC:123:VAL:HG23	1.77	0.84
1:AA:1003:G:C6	1:AA:1004:A:H1'	2.13	0.84
1:AA:1095:U:H5'	1:AA:1109:C:O2	1.78	0.84
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.43	0.84
6:AG:113:SER:HB3	6:AG:116:GLN:HG3	1.60	0.84
6:AG:30:LYS:CG	6:AG:35:ARG:HD2	2.06	0.84
10:AK:40:ALA:HB2	10:AK:45:ILE:HG12	1.59	0.84
15:AP:121:LYS:HA	15:AP:121:LYS:HE3	1.60	0.84
19:AT:31:LEU:O	19:AT:32:TYR:HD2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:50:GLU:H	22:AW:99:LEU:CD1	1.90	0.84
48:B1:46:ARG:O	48:B1:50:ARG:HG3	1.78	0.84
24:BA:2623:G:H21	51:B4:22:HIS:HE1	1.24	0.84
24:BA:1180:C:H2'	24:BA:1181:C:H6	1.40	0.84
24:BA:1351:C:H2'	24:BA:1352:U:C6	2.13	0.84
24:BA:1613:G:H3'	24:BA:1614:A:C5'	2.07	0.84
24:BA:1718:G:N2	24:BA:1742:C:N3	2.25	0.84
24:BA:1790:C:O2'	27:BD:209:ALA:CB	2.23	0.84
24:BA:2016:U:C1'	51:B4:6:VAL:HG11	2.08	0.84
24:BA:2556:C:H2'	24:BA:2557:G:O4'	1.78	0.84
24:BA:265:A:H3'	24:BA:265:A:H8	1.41	0.84
24:BA:2748:A:H1'	31:BH:67:LEU:CD2	2.08	0.84
24:BA:1710:C:H1'	24:BA:2858:C:H42	1.40	0.84
24:BA:893:C:H2'	24:BA:894:C:H6	1.39	0.84
27:BD:177:LEU:HB2	27:BD:178:PRO:HD2	1.60	0.84
28:BE:200:GLU:HB3	28:BE:202:LYS:NZ	1.92	0.84
28:BE:36:ARG:HB3	28:BE:41:LYS:CB	2.08	0.84
29:BF:78:ILE:HD13	29:BF:79:GLY:N	1.93	0.84
30:BG:170:ARG:HG2	30:BG:170:ARG:HH11	1.43	0.84
31:BH:127:GLU:HG3	31:BH:130:ARG:H	1.41	0.84
31:BH:153:LYS:HB2	31:BH:162:ILE:CG2	2.06	0.84
32:BK:40:THR:O	32:BK:44:LEU:HG	1.76	0.84
33:BL:109:LYS:O	33:BL:112:MET:HB2	1.78	0.84
34:BM:23:LEU:HD12	34:BM:63:THR:HG23	1.60	0.84
34:BM:87:LEU:HD23	34:BM:88:GLU:OE2	1.76	0.84
41:BT:97:ASP:O	41:BT:100:VAL:HG22	1.78	0.84
44:BW:49:VAL:HG12	44:BW:88:LYS:CB	2.08	0.84
46:BY:57:ILE:HG22	46:BY:58:VAL:N	1.90	0.84
32:BK:86:THR:HG22	32:BK:87:LYS:H	1.43	0.84
26:BC:77:ILE:HD13	26:BC:123:VAL:HG11	1.60	0.84
24:BA:1496:A:C2	24:BA:1577:C:H1'	2.13	0.84
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.12	0.84
1:AA:1315:U:O2'	1:AA:1360:A:N3	2.10	0.83
4:AE:146:GLN:HE21	4:AE:150:SER:HB2	1.37	0.83
4:AE:200:ILE:O	4:AE:202:PRO:HD3	1.78	0.83
6:AG:153:ARG:HA	6:AG:158:ILE:HG21	1.60	0.83
7:AH:121:LYS:NZ	7:AH:122:GLU:H	1.76	0.83
12:AM:43:ARG:O	12:AM:66:ARG:HB2	1.77	0.83
14:AO:53:ARG:HB3	14:AO:69:TYR:HE1	1.42	0.83
51:B4:51:TYR:HB3	51:B4:55:ARG:CA	2.07	0.83
54:B7:16:ILE:HG23	54:B7:22:VAL:HG23	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1059:G:O6	24:BA:1060:U:H1'	1.77	0.83
24:BA:1188:U:O2	24:BA:1189:A:C1'	2.26	0.83
24:BA:144:C:H2'	24:BA:145:G:H5'	1.60	0.83
24:BA:2227:A:H2'	24:BA:2228:G:O4'	1.78	0.83
24:BA:2232:U:O2'	24:BA:2233:U:H5'	1.77	0.83
24:BA:2243:U:H2'	24:BA:2244:U:C6	2.12	0.83
24:BA:2262:U:H4'	24:BA:2328:A:H2	1.43	0.83
24:BA:2720:U:H3'	24:BA:2721:A:C8	2.12	0.83
24:BA:768:G:H2'	24:BA:769:G:H8	1.41	0.83
24:BA:819:A:H2'	24:BA:820:A:C8	2.13	0.83
27:BD:208:LYS:HG2	27:BD:211:ARG:CG	2.08	0.83
24:BA:1567:A:OP2	27:BD:86:PRO:HB3	1.78	0.83
28:BE:176:ILE:HD11	28:BE:179:GLU:HG2	1.60	0.83
34:BM:109:LYS:HB3	34:BM:113:GLY:H	1.43	0.83
34:BM:28:THR:O	34:BM:31:ALA:HB3	1.77	0.83
35:BN:112:MET:HA	35:BN:115:VAL:CG2	2.08	0.83
35:BN:9:GLU:CA	35:BN:17:ARG:O	2.24	0.83
40:BS:17:THR:HB	40:BS:20:PRO:HD3	1.59	0.83
46:BY:153:SER:O	46:BY:155:LEU:HB2	1.78	0.83
1:AA:1202:G:C4	16:AQ:42:ILE:HD13	2.14	0.83
1:AA:186(D):C:H2'	1:AA:186(E):C:C6	2.11	0.83
1:AA:112:G:C5'	1:AA:389:A:H4'	2.08	0.83
1:AA:761:G:H5'	19:AT:102:GLY:CA	2.08	0.83
6:AG:56:VAL:HG12	6:AG:202:LEU:HD21	1.58	0.83
8:AI:33:TYR:HE2	8:AI:74:ASP:HB2	1.43	0.83
10:AK:7:ALA:HA	10:AK:10:LEU:CD1	2.07	0.83
15:AP:52:GLU:HA	15:AP:55:ARG:CD	2.07	0.83
50:B3:5:ILE:HG21	50:B3:8:LYS:O	1.77	0.83
24:BA:1087:G:C8	24:BA:1089:G:H1'	2.13	0.83
24:BA:1223:C:N4	24:BA:1227:A:H61	1.76	0.83
24:BA:1815:A:H1'	24:BA:1817:G:N9	1.93	0.83
24:BA:2447:G:H3'	24:BA:2499:C:OP2	1.75	0.83
24:BA:339:U:H2'	24:BA:340:A:H8	1.42	0.83
24:BA:712:G:H2'	24:BA:713:G:C8	2.11	0.83
24:BA:880:G:H2'	24:BA:881:G:H4'	1.58	0.83
25:BB:29:A:H2'	25:BB:30:C:C6	2.13	0.83
30:BG:90:LEU:O	30:BG:90:LEU:HD13	1.78	0.83
32:BK:2:LYS:CD	32:BK:39:ALA:HB2	2.07	0.83
34:BM:87:LEU:O	34:BM:90:MET:HB2	1.76	0.83
29:BF:31:HIS:ND1	36:BO:11:GLY:HA3	1.93	0.83
37:BP:105:GLU:HA	37:BP:105:GLU:OE2	1.76	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:2:PHE:HB3	42:BU:13:ARG:NH2	1.93	0.83
43:BV:4:LYS:HA	43:BV:106:ILE:HD12	1.58	0.83
46:BY:105:VAL:H	46:BY:140:ASP:HB2	1.43	0.83
46:BY:17:ALA:O	46:BY:20:ARG:HB3	1.78	0.83
32:BK:88:ILE:HD11	32:BK:123:LEU:HD22	1.58	0.83
32:BK:83:ALA:HB2	32:BK:89:TYR:H	1.42	0.83
1:AA:1028:C:H2'	1:AA:1028(A):C:C6	2.13	0.83
24:BA:2803:C:OP2	24:BA:2803:C:H6	1.60	0.83
1:AA:1109:C:H2'	1:AA:1110:A:C8	2.13	0.83
1:AA:1277:C:H4'	1:AA:1282:C:C1'	2.09	0.83
1:AA:509:A:H2'	1:AA:510:A:C8	2.13	0.83
1:AA:560:U:O2'	1:AA:561:U:OP2	1.96	0.83
1:AA:586:C:OP1	19:AT:34:LYS:HE3	1.76	0.83
4:AE:169:LYS:HD3	4:AE:170:GLU:N	1.92	0.83
4:AE:77:ALA:HA	4:AE:208:ILE:HD11	1.60	0.83
5:AF:36:ASP:HA	5:AF:39:ILE:HD12	1.60	0.83
6:AG:114:ARG:O	6:AG:117:ALA:HB3	1.78	0.83
9:AJ:42:ILE:HG22	9:AJ:120:ILE:HD11	1.60	0.83
9:AJ:76:ARG:HB2	9:AJ:156:TRP:CZ2	2.13	0.83
11:AL:111:ARG:O	11:AL:119:ALA:HB2	1.78	0.83
11:AL:37:PHE:CE1	11:AL:74:ILE:HG23	2.13	0.83
52:B5:38:LYS:O	52:B5:49:HIS:HB3	1.78	0.83
54:B7:30:ARG:NH2	54:B7:41:ILE:O	2.11	0.83
54:B7:5:LYS:HA	54:B7:59:LYS:O	1.77	0.83
55:B8:19:ARG:O	55:B8:22:ARG:CB	2.27	0.83
24:BA:1131:G:C1'	34:BM:82:LEU:HD11	2.09	0.83
24:BA:1214:A:H2'	24:BA:1215:G:C8	2.12	0.83
24:BA:2046:G:H5''	51:B4:19:ARG:HA	1.58	0.83
24:BA:207:A:H2'	24:BA:208:C:O4'	1.78	0.83
24:BA:826:U:OP1	24:BA:2428:G:H3'	1.77	0.83
24:BA:2740:A:H2'	24:BA:2741:A:C8	2.13	0.83
24:BA:391:G:H2'	24:BA:392:C:H6	1.43	0.83
24:BA:87:C:H1'	48:B1:46:ARG:NH2	1.93	0.83
24:BA:914:C:H2'	24:BA:915:C:H5'	1.61	0.83
24:BA:979:G:N2	24:BA:985:C:N4	2.26	0.83
25:BB:80:U:H2'	25:BB:81:G:C8	2.13	0.83
27:BD:84:TYR:HA	27:BD:92:ILE:HG23	1.58	0.83
24:BA:2304:G:H4'	30:BG:132:ASN:ND2	1.93	0.83
35:BN:39:ILE:HD13	35:BN:39:ILE:H	1.43	0.83
35:BN:66:LYS:HE3	35:BN:67:LYS:HZ3	1.40	0.83
24:BA:995:C:H1'	41:BT:57:PHE:CE1	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:18:ARG:CZ	43:BV:76:VAL:HG12	2.08	0.83
44:BW:79:ALA:C	44:BW:80:ILE:HD13	1.98	0.83
32:BK:59:ALA:CA	32:BK:62:LYS:HD2	2.08	0.83
5:AF:157:ILE:CG1	5:AF:164:ARG:HG2	2.07	0.83
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.41	0.83
1:AA:791:G:H2'	1:AA:792:A:C8	2.12	0.83
1:AA:570:G:H1	1:AA:866:C:N4	1.75	0.83
1:AA:942:G:N2	11:AL:124:GLN:NE2	2.22	0.83
4:AE:77:ALA:CB	4:AE:211:ILE:HD13	2.08	0.83
10:AK:126:LYS:NZ	10:AK:127:LEU:HB2	1.94	0.83
13:AN:26:ASN:O	13:AN:27:ASN:HB3	1.78	0.83
13:AN:42:TRP:HE3	13:AN:43:SER:CA	1.90	0.83
14:AO:86:ARG:HH12	14:AO:119:LYS:CD	1.91	0.83
24:BA:94:G:H21	48:B1:42:ASN:HD21	1.26	0.83
54:B7:3:LYS:O	54:B7:4:MET:HB2	1.78	0.83
54:B7:5:LYS:HG3	54:B7:7:HIS:HD2	1.43	0.83
24:BA:1222:C:N4	24:BA:1227:A:N6	2.26	0.83
24:BA:1351:C:H2'	24:BA:1352:U:H6	1.42	0.83
24:BA:1559:G:C6	24:BA:1560:G:H4'	2.12	0.83
24:BA:1972:A:H2'	24:BA:1973:G:C8	2.13	0.83
24:BA:2225:A:H5''	24:BA:2226:C:H5'	1.60	0.83
24:BA:2371:G:H2'	24:BA:2372:G:C8	2.14	0.83
24:BA:2458:G:C8	24:BA:2490:G:C6	2.66	0.83
24:BA:24:G:H2'	24:BA:25:U:H6	1.42	0.83
24:BA:2572:A:H5'	24:BA:2574:G:H5''	1.60	0.83
24:BA:451:C:H41	24:BA:453:C:H3'	1.44	0.83
28:BE:164:ARG:O	28:BE:165:VAL:HG22	1.79	0.83
28:BE:104:VAL:CG2	28:BE:198:VAL:HG13	2.07	0.83
29:BF:192:LEU:HD22	29:BF:193:VAL:N	1.93	0.83
29:BF:39:TRP:HZ3	29:BF:43:LYS:HD2	1.42	0.83
29:BF:70:THR:C	29:BF:72:ARG:H	1.79	0.83
30:BG:19:LEU:H	30:BG:19:LEU:CD1	1.88	0.83
33:BL:21:PRO:HG2	33:BL:22:PRO:HD2	1.61	0.83
34:BM:70:LYS:HD2	34:BM:86:PRO:CA	2.07	0.83
35:BN:85:VAL:HG12	35:BN:93:PRO:CG	2.08	0.83
38:BQ:52:ILE:HD12	38:BQ:94:TYR:CD1	2.12	0.83
40:BS:54:ARG:C	40:BS:55:ASN:CG	2.36	0.83
43:BV:14:PRO:C	43:BV:16:LYS:HZ1	1.82	0.83
45:BX:74:PRO:HG2	45:BX:100:ALA:HB3	1.58	0.83
46:BY:39:VAL:HG21	46:BY:86:VAL:HG23	1.60	0.83
24:BA:1583:A:H5'	24:BA:1585:C:H5'	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:197:A:H62	1:AA:221:C:C4'	1.88	0.83
1:AA:372:C:N4	1:AA:389:A:N6	2.11	0.83
1:AA:515:G:H2'	1:AA:516:U:O4'	1.77	0.83
4:AE:23:ARG:HH11	4:AE:23:ARG:C	1.80	0.83
6:AG:187:ARG:HG3	6:AG:188:LEU:H	1.39	0.83
6:AG:83:SER:N	6:AG:89:THR:HG23	1.93	0.83
11:AL:47:LEU:HD13	11:AL:47:LEU:O	1.78	0.83
1:AA:1226:C:C6	15:AP:104:ARG:HA	2.14	0.83
19:AT:3:LYS:HD3	19:AT:61:GLU:O	1.79	0.83
52:B5:14:THR:CB	52:B5:51:GLU:HG2	2.05	0.83
24:BA:1049:C:N3	24:BA:1050:A:N7	2.25	0.83
24:BA:1203:G:O6	24:BA:1240:U:N1	2.11	0.83
24:BA:2619:C:O2'	24:BA:2620:C:H5'	1.79	0.83
24:BA:2674:G:H2'	24:BA:2675:A:C8	2.14	0.83
24:BA:2746:U:OP1	31:BH:142:GLY:HA3	1.77	0.83
24:BA:31:C:H5''	24:BA:1239:G:OP1	1.78	0.83
24:BA:427:U:O2	24:BA:428:A:H8	1.59	0.83
24:BA:451:C:N4	24:BA:453:C:H3'	1.94	0.83
24:BA:636:G:H22	36:BO:75:ILE:CD1	1.89	0.83
24:BA:64:A:N3	44:BW:66:LEU:HD22	1.93	0.83
24:BA:674:G:H5''	29:BF:74:ARG:HH11	1.43	0.83
24:BA:728:G:C1'	24:BA:729:G:H8	1.91	0.83
24:BA:846:C:O2'	24:BA:847:U:OP2	1.96	0.83
24:BA:966:G:H1'	24:BA:2267:A:H62	1.44	0.83
27:BD:90:ALA:O	27:BD:91:ARG:O	1.96	0.83
28:BE:131:ALA:CB	28:BE:134:ILE:HG13	2.09	0.83
28:BE:49:LEU:CD1	28:BE:50:GLY:N	2.41	0.83
29:BF:123:LEU:HB2	29:BF:192:LEU:O	1.79	0.83
33:BL:138:VAL:O	33:BL:139:VAL:HG23	1.77	0.83
34:BM:55:VAL:HB	34:BM:130:HIS:CE1	2.13	0.83
36:BO:89:ALA:C	36:BO:125:VAL:HG22	1.99	0.83
24:BA:2847:U:P	40:BS:54:ARG:HH22	2.02	0.83
42:BU:21:ARG:O	42:BU:22:VAL:O	1.96	0.83
43:BV:76:VAL:HG23	43:BV:103:ILE:HA	1.60	0.83
26:BC:63:SER:OG	26:BC:155:GLU:HG2	1.78	0.83
26:BC:62:VAL:O	26:BC:64:LEU:HG	1.78	0.83
1:AA:1253:G:N1	1:AA:1285:A:N6	2.26	0.83
1:AA:607:A:O2'	1:AA:608:A:H5'	1.79	0.83
1:AA:944:G:C3'	1:AA:945:G:H5''	2.08	0.83
1:AA:961:U:C2'	1:AA:962:C:H5'	2.09	0.83
10:AK:33:GLU:HG2	10:AK:59:LEU:HD11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:67:GLU:CG	15:AP:68:GLY:H	1.89	0.83
52:B5:19:ARG:NH1	52:B5:43:CYS:CB	2.40	0.83
24:BA:578:A:H2'	24:BA:2018:G:C5'	2.09	0.83
24:BA:2060:A:O2'	24:BA:2061:G:OP2	1.96	0.83
24:BA:261:G:O2'	24:BA:262:A:H5'	1.78	0.83
24:BA:265:A:C8	24:BA:266:G:H1'	2.14	0.83
24:BA:500:G:H1'	24:BA:503:A:H62	1.43	0.83
24:BA:558:G:H5'	34:BM:112:LEU:CG	2.09	0.83
24:BA:603:A:H61	24:BA:624:C:H41	1.27	0.83
28:BE:101:ARG:HD2	28:BE:169:ASN:HD21	1.42	0.83
28:BE:12:THR:CA	28:BE:21:VAL:HB	2.06	0.83
24:BA:2306:C:O2'	30:BG:153:ARG:HD3	1.77	0.83
33:BL:52:ILE:HG13	33:BL:76:TYR:CB	2.08	0.83
34:BM:104:LYS:HD3	34:BM:117:PHE:CZ	2.13	0.83
36:BO:55:ARG:NH2	36:BO:55:ARG:HB3	1.92	0.83
37:BP:132:VAL:CG1	37:BP:133:ARG:HH21	1.92	0.83
24:BA:910:A:C6	37:BP:17:LEU:HD11	2.12	0.83
38:BQ:54:LEU:HD12	38:BQ:54:LEU:H	1.43	0.83
47:BZ:24:LYS:O	47:BZ:25:ARG:HG2	1.78	0.83
47:BZ:41:ARG:HB3	47:BZ:41:ARG:NH1	1.94	0.83
26:BC:156:ILE:HA	26:BC:160:ARG:HG3	1.60	0.83
24:BA:274:G:H3'	24:BA:274:G:N3	1.92	0.83
24:BA:2096:U:H2'	24:BA:2097:C:C5	2.14	0.83
7:AH:78:HIS:ND1	10:AK:107:LEU:HD11	1.94	0.83
9:AJ:32:ARG:O	9:AJ:33:ASP:HB2	1.78	0.83
10:AK:25:ASP:HB2	10:AK:58:TYR:CE2	2.13	0.83
12:AM:79:ARG:HH12	12:AM:82:ILE:HD12	1.41	0.83
13:AN:73:MET:HE2	13:AN:103:LEU:HD22	1.59	0.83
16:AQ:26:ARG:HB3	16:AQ:43:CYS:CB	2.08	0.83
49:B2:3:ARG:HH11	49:B2:3:ARG:HB3	1.44	0.83
50:B3:57:GLU:C	50:B3:61:ARG:HG3	1.99	0.83
54:B7:10:ALA:CA	54:B7:60:LEU:HD12	2.08	0.83
24:BA:1021:A:C2	24:BA:1122:G:H4'	2.11	0.83
24:BA:111:A:H2'	24:BA:112:U:C6	2.14	0.83
24:BA:1567:A:H3'	24:BA:1567:A:N3	1.93	0.83
24:BA:2091:U:H2'	24:BA:2092:U:H5'	1.59	0.83
2:AC:75:C:O2	24:BA:2252:G:N2	2.12	0.83
24:BA:2289:G:H5'	24:BA:2384:G:H1'	1.61	0.83
24:BA:2408:U:O5'	24:BA:2408:U:C6	2.32	0.83
24:BA:569:U:H1'	24:BA:947:G:O4'	1.79	0.83
27:BD:93:ALA:HB3	27:BD:105:ILE:O	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2224:G:H4'	27:BD:262:ARG:HH12	1.44	0.83
28:BE:197:ILE:N	28:BE:197:ILE:HD12	1.93	0.83
30:BG:92:VAL:CG1	30:BG:94:LEU:HD22	2.08	0.83
31:BH:149:ARG:HA	31:BH:162:ILE:HG21	1.60	0.83
31:BH:59:ARG:HA	31:BH:62:LYS:CD	2.09	0.83
36:BO:126:VAL:HG23	36:BO:146:VAL:O	1.78	0.83
24:BA:666:G:H5'	36:BO:45:LEU:HD12	1.59	0.83
39:BR:106:ARG:HH22	39:BR:110:LEU:HB3	1.43	0.83
40:BS:44:ASP:O	40:BS:46:GLU:N	2.11	0.83
41:BT:93:LYS:HB2	42:BU:10:LYS:HD2	1.59	0.83
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.13	0.83
4:AE:102:LEU:HD12	4:AE:102:LEU:N	1.92	0.83
4:AE:15:VAL:HG22	4:AE:209:ARG:HD2	1.61	0.83
8:AI:79:LEU:O	8:AI:85:VAL:HG21	1.78	0.83
10:AK:6:ILE:HG13	10:AK:85:ARG:CZ	2.09	0.83
14:AO:32:PHE:HB3	14:AO:84:LEU:HD21	1.58	0.83
20:AU:58:LEU:HB3	20:AU:62:GLU:CB	2.07	0.83
22:AW:51:GLU:HA	22:AW:54:LYS:HD2	1.58	0.83
52:B5:30:THR:HB	52:B5:31:PRO:HD3	1.61	0.83
53:B6:22:MET:HA	53:B6:28:ARG:HG3	1.60	0.83
24:BA:1012:U:H5'	24:BA:1013:C:OP1	1.78	0.83
24:BA:1791:A:H4'	27:BD:206:LEU:HD21	1.61	0.83
24:BA:1915:U:H3'	24:BA:1915:U:OP2	1.79	0.83
24:BA:1955:U:H5'	24:BA:1956:U:O4	1.78	0.83
24:BA:2637:U:H5''	28:BE:81:ILE:CD1	2.03	0.83
24:BA:2720:U:C3'	24:BA:2721:A:H8	1.91	0.83
24:BA:2748:A:N3	31:BH:67:LEU:HD11	1.92	0.83
24:BA:364:C:H2'	24:BA:365:C:H6	1.43	0.83
24:BA:95:G:H2'	48:B1:43:HIS:CE1	2.13	0.83
27:BD:136:ILE:HG22	27:BD:138:VAL:H	1.43	0.83
28:BE:131:ALA:HA	28:BE:134:ILE:HG13	1.59	0.83
28:BE:141:ILE:HD12	28:BE:150:VAL:CG2	2.09	0.83
28:BE:55:ASN:HA	28:BE:58:ARG:NH2	1.93	0.83
29:BF:64:ILE:O	29:BF:65:TRP:O	1.97	0.83
36:BO:47:ASP:HB3	36:BO:48:PRO:HD3	1.60	0.83
41:BT:50:ARG:HB2	41:BT:50:ARG:CZ	2.09	0.83
42:BU:36:PRO:CA	42:BU:61:VAL:HG22	2.07	0.83
24:BA:565:C:H5''	42:BU:82:ARG:HH21	1.41	0.83
1:AA:1043:C:H2'	1:AA:1044:A:O4'	1.79	0.83
1:AA:1124:G:H2'	1:AA:1126:U:O4	1.77	0.83
2:AC:38:A:O2'	2:AC:39:C:H5'	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:115:ARG:CB	9:AJ:118:VAL:HG23	2.09	0.83
10:AK:61:VAL:HG12	10:AK:62:TYR:N	1.94	0.83
1:AA:1308:U:P	15:AP:99:ARG:HG3	2.19	0.83
23:AX:24:ARG:O	23:AX:25:LYS:HB2	1.79	0.83
48:B1:28:MET:HG2	48:B1:32:PHE:CE1	2.14	0.83
50:B3:28:LYS:HB3	50:B3:29:PRO:CD	2.09	0.83
24:BA:1329:U:H5'	24:BA:1330:C:H5	1.44	0.83
24:BA:1526:G:H21	24:BA:1545(A):A:H62	1.24	0.83
24:BA:1937:A:H62	24:BA:1939:U:H5	1.17	0.83
24:BA:2448:A:P	24:BA:2498:C:O5'	2.36	0.83
24:BA:270(B):A:H4'	24:BA:270(C):C:H6	1.37	0.83
24:BA:332:A:C2'	24:BA:335:C:H41	1.91	0.83
24:BA:792:G:H21	24:BA:2072:G:H1'	1.42	0.83
27:BD:155:LEU:HA	27:BD:157:ARG:HH21	1.43	0.83
24:BA:1791:A:O4'	27:BD:209:ALA:HA	1.77	0.83
27:BD:52:ARG:HD3	27:BD:52:ARG:N	1.88	0.83
27:BD:7:LYS:HZ2	27:BD:91:ARG:NH1	1.75	0.83
28:BE:101:ARG:CD	28:BE:169:ASN:HD21	1.92	0.83
28:BE:8:LYS:CA	28:BE:8:LYS:HE2	2.07	0.83
29:BF:34:TRP:HB3	29:BF:38:ARG:CZ	2.09	0.83
30:BG:78:SER:HB3	30:BG:82:LEU:CG	2.08	0.83
33:BL:104:VAL:HG22	33:BL:127:ILE:HG21	1.61	0.83
34:BM:22:THR:HG22	34:BM:61:ARG:NH2	1.94	0.83
36:BO:128:HIS:HB3	36:BO:147:LEU:HD21	1.58	0.83
36:BO:76:LYS:HG3	36:BO:101:VAL:HG11	1.60	0.83
38:BQ:113:LEU:HD13	38:BQ:113:LEU:C	1.98	0.83
43:BV:11:ARG:HB2	43:BV:98:LYS:NZ	1.94	0.83
46:BY:156:LYS:HE3	46:BY:156:LYS:HA	1.61	0.83
46:BY:6:LYS:HG2	46:BY:37:VAL:HG13	1.59	0.83
47:BZ:28:GLY:O	47:BZ:66:VAL:HG22	1.79	0.83
24:BA:2125:G:N2	24:BA:2173:A:H62	1.77	0.83
1:AA:1035:A:H2'	1:AA:1036:G:H5'	1.60	0.83
5:AF:157:ILE:HG21	5:AF:164:ARG:NE	1.94	0.83
11:AL:25:LYS:O	11:AL:61:ALA:HB3	1.78	0.83
1:AA:640:A:C2'	1:AA:641:U:H5'	2.09	0.83
4:AE:194:PRO:O	4:AE:196:LEU:N	2.12	0.83
6:AG:11:LEU:HA	6:AG:14:ARG:HB3	1.58	0.83
8:AI:76:ALA:O	8:AI:80:ARG:HG3	1.79	0.83
12:AM:15:THR:OG1	12:AM:94:VAL:HG23	1.78	0.83
13:AN:59:TYR:O	13:AN:62:GLN:NE2	2.12	0.83
15:AP:26:GLY:O	15:AP:29:ARG:HB2	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:22:ILE:HB	50:B3:27:THR:HB	1.59	0.83
24:BA:1700:A:H3'	24:BA:1701:A:O4'	1.78	0.83
24:BA:1777:U:C2'	24:BA:1778:U:H5'	2.09	0.83
24:BA:1779:U:O5'	24:BA:1779:U:H6	1.60	0.83
24:BA:2010:G:C2'	24:BA:2011:U:H5'	2.09	0.83
24:BA:574:C:H5	24:BA:2054:A:O3'	1.61	0.83
24:BA:2682:U:O2	28:BE:12:THR:HG22	1.78	0.83
24:BA:295:G:C2'	24:BA:296:C:H5'	2.09	0.83
24:BA:298:G:H8	24:BA:298:G:O5'	1.60	0.83
24:BA:654:A:H2'	24:BA:654:A:N3	1.93	0.83
24:BA:987:G:P	49:B2:13:ILE:HG21	2.19	0.83
27:BD:33:LEU:HD11	27:BD:61:LEU:CD1	2.08	0.83
27:BD:59:LYS:HZ2	27:BD:59:LYS:C	1.82	0.83
27:BD:7:LYS:HB2	27:BD:27:THR:OG1	1.79	0.83
24:BA:2314:C:H5'	30:BG:38:VAL:HG21	1.61	0.83
31:BH:107:VAL:HG13	31:BH:152:ARG:HG2	1.61	0.83
37:BP:28:ALA:O	37:BP:29:PHE:HB2	1.78	0.83
40:BS:105:LEU:HD12	40:BS:106:SER:N	1.93	0.83
44:BW:61:GLY:HA3	44:BW:73:ARG:HB3	1.59	0.83
46:BY:39:VAL:HG21	46:BY:86:VAL:CG2	2.09	0.83
47:BZ:46:LYS:HB2	47:BZ:78:TYR:CD2	2.13	0.83
32:BK:108:THR:O	32:BK:109:ILE:HD12	1.78	0.83
24:BA:2124:G:H2'	26:BC:217:THR:CG2	2.08	0.83
4:AE:7:VAL:CG2	4:AE:8:LYS:H	1.91	0.83
1:AA:306:G:H3'	1:AA:307:C:H5	1.42	0.82
1:AA:551:U:H2'	1:AA:552:U:C6	2.14	0.82
1:AA:911:U:H2'	1:AA:912:C:H6	1.44	0.82
6:AG:59:ARG:HH12	6:AG:62:GLN:HB2	1.44	0.82
9:AJ:74:GLU:HB3	9:AJ:91:VAL:CG2	2.09	0.82
15:AP:24:GLY:O	15:AP:29:ARG:HD2	1.79	0.82
23:AX:12:LYS:HA	23:AX:15:ARG:HB2	1.60	0.82
55:B8:1:MET:H3	55:B8:33:LYS:CB	1.91	0.82
24:BA:1310:G:H2'	24:BA:1311:G:O4'	1.79	0.82
24:BA:1521:G:H3'	24:BA:1522:G:C5'	2.07	0.82
24:BA:1466:G:C2'	24:BA:1547:C:H41	1.91	0.82
24:BA:1460:A:N1	24:BA:1732:A:N1	2.26	0.82
24:BA:574:C:N4	24:BA:2054:A:H5"	1.93	0.82
24:BA:2461:C:C1'	24:BA:2492:U:C5	2.61	0.82
24:BA:270(Z):U:C3'	24:BA:271(A):C:C5'	2.55	0.82
24:BA:2746:U:O4	24:BA:2756:U:H5	1.62	0.82
24:BA:2815:C:O2'	24:BA:2816:C:H5'	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:70:G:H5''	24:BA:71:A:OP1	1.78	0.82
24:BA:729:G:C3'	24:BA:730:C:H4'	2.08	0.82
27:BD:39:LYS:HD2	27:BD:39:LYS:N	1.95	0.82
28:BE:91:VAL:CG1	28:BE:93:VAL:HG22	2.09	0.82
30:BG:18:GLU:HB3	30:BG:19:LEU:HD12	1.60	0.82
30:BG:76:SER:O	30:BG:83:ARG:HG3	1.78	0.82
32:BK:4:ILE:HD11	32:BK:39:ALA:H	1.42	0.82
35:BN:105:GLU:C	35:BN:111:PHE:HZ	1.81	0.82
37:BP:8:LYS:HD3	37:BP:11:LYS:HZ2	1.44	0.82
38:BQ:55:ALA:HB2	38:BQ:79:LEU:HD11	1.60	0.82
40:BS:65:LYS:CG	40:BS:75:ILE:HB	2.09	0.82
42:BU:27:ALA:HB1	42:BU:33:VAL:CG1	2.08	0.82
42:BU:81:TYR:O	42:BU:82:ARG:HB2	1.77	0.82
45:BX:88:LYS:HB3	45:BX:91:GLU:CD	1.99	0.82
32:BK:69:LYS:NZ	32:BK:70:LYS:HE2	1.94	0.82
32:BK:59:ALA:O	32:BK:62:LYS:HB2	1.79	0.82
1:AA:1399:C:N4	1:AA:1502:A:N7	2.26	0.82
4:AE:17:PHE:HD1	4:AE:18:GLY:N	1.76	0.82
5:AF:108:ASN:HD22	5:AF:111:LEU:HD13	1.44	0.82
5:AF:191:THR:HB	5:AF:193:TYR:CE2	2.13	0.82
5:AF:41:GLY:O	5:AF:45:LYS:HB2	1.78	0.82
5:AF:84:ILE:HA	5:AF:101:LEU:CD1	2.09	0.82
6:AG:145:GLU:O	6:AG:146:ILE:HG23	1.78	0.82
9:AJ:111:ARG:HB2	9:AJ:119:ARG:HG3	1.61	0.82
1:AA:1342:C:H1'	11:AL:124:GLN:OE1	1.80	0.82
12:AM:79:ARG:NH2	12:AM:82:ILE:HG21	1.94	0.82
1:AA:1316:G:H4'	16:AQ:17:LYS:HD2	1.58	0.82
50:B3:5:ILE:HD12	50:B3:8:LYS:O	1.78	0.82
52:B5:14:THR:HB	52:B5:51:GLU:CG	2.03	0.82
24:BA:1007:C:H4'	34:BM:108:PRO:HD3	1.58	0.82
24:BA:1203:G:C5	24:BA:1241:A:C8	2.66	0.82
24:BA:1312:U:H2'	24:BA:1313:U:H6	1.36	0.82
24:BA:1504:C:H2'	24:BA:1505:C:H6	1.44	0.82
24:BA:1729:A:N7	24:BA:1731:G:O6	2.12	0.82
24:BA:197:A:H3'	24:BA:198:C:C5	2.14	0.82
24:BA:2020:A:H2'	24:BA:2021:C:C5'	2.09	0.82
24:BA:184:C:O3'	24:BA:217:G:N2	2.12	0.82
24:BA:2213:U:C5'	24:BA:2215:G:N7	2.42	0.82
24:BA:2346:A:H62	52:B5:37:ARG:NH1	1.74	0.82
24:BA:2626:C:H2'	24:BA:2627:G:C8	2.11	0.82
24:BA:602:G:H21	24:BA:655:A:H2'	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:729:G:C4	24:BA:730:C:H1'	2.13	0.82
24:BA:728:G:H5'	27:BD:16:MET:SD	2.19	0.82
27:BD:63:ARG:NH1	27:BD:63:ARG:HB2	1.93	0.82
28:BE:133:LYS:HD2	28:BE:137:HIS:CG	2.14	0.82
28:BE:4:ILE:H	28:BE:27:LEU:CD2	1.91	0.82
33:BL:54:PRO:HG3	33:BL:73:PRO:HD3	1.59	0.82
35:BN:111:PHE:O	35:BN:114:ILE:N	2.13	0.82
38:BQ:99:LYS:HG2	51:B4:43:HIS:NE2	1.95	0.82
39:BR:15:ARG:HG2	39:BR:15:ARG:NH2	1.89	0.82
41:BT:32:PHE:O	41:BT:35:ALA:HB3	1.79	0.82
43:BV:4:LYS:HA	43:BV:106:ILE:CD1	2.09	0.82
46:BY:122:ARG:CG	46:BY:171:ILE:HA	2.09	0.82
24:BA:2168:G:N2	24:BA:2170:A:H3'	1.93	0.82
26:BC:135:GLY:C	26:BC:136:LEU:HD23	1.98	0.82
26:BC:183:GLU:H	26:BC:183:GLU:CD	1.82	0.82
1:AA:1160:G:N3	1:AA:1160:G:H2'	1.95	0.82
1:AA:1479:C:O2'	1:AA:1480:G:H5'	1.80	0.82
1:AA:1494:G:C2	1:AA:1495:U:H5	1.97	0.82
1:AA:745:C:H5''	1:AA:851:G:H1'	1.60	0.82
1:AA:961:U:H6	1:AA:983:A:C2	1.97	0.82
1:AA:974:A:P	16:AQ:31:ARG:HG2	2.19	0.82
13:AN:88:GLY:CA	13:AN:91:ARG:HB2	2.09	0.82
16:AQ:44:LEU:HD23	16:AQ:45:ARG:H	1.43	0.82
18:AS:39:TYR:HD1	18:AS:40:ASP:N	1.76	0.82
19:AT:97:SER:O	19:AT:98:LEU:HD22	1.80	0.82
49:B2:20:LYS:O	49:B2:23:LEU:HB2	1.79	0.82
50:B3:46:GLN:HG2	50:B3:47:GLN:N	1.94	0.82
24:BA:1125:G:H4'	55:B8:4:ARG:HB3	1.59	0.82
24:BA:1203:G:N3	24:BA:1203:G:C2'	2.42	0.82
24:BA:2261:C:O2'	24:BA:2262:U:H5'	1.79	0.82
24:BA:244:A:O2'	36:BO:66:GLY:HA2	1.79	0.82
24:BA:469:G:N2	53:B6:40:TRP:CZ2	2.43	0.82
24:BA:832:G:H2'	24:BA:833:U:C6	2.14	0.82
24:BA:87:C:H5''	24:BA:88:G:H5''	1.59	0.82
28:BE:152:LYS:HE2	34:BM:77:GLY:O	1.78	0.82
28:BE:8:LYS:HB3	28:BE:24:THR:HB	1.58	0.82
29:BF:116:ASP:O	29:BF:119:ARG:HD2	1.79	0.82
30:BG:132:ASN:O	30:BG:133:LEU:HB2	1.79	0.82
30:BG:57:ALA:HA	30:BG:68:PRO:N	1.95	0.82
31:BH:11:VAL:HG11	31:BH:45:VAL:HG13	1.62	0.82
35:BN:21:CYS:SG	35:BN:39:ILE:HB	2.19	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:134:ARG:HD2	37:BP:135:ASP:N	1.93	0.82
39:BR:75:GLU:O	39:BR:78:LEU:HB3	1.79	0.82
24:BA:531:C:H42	41:BT:38:THR:HG22	1.43	0.82
42:BU:6:LYS:HB3	42:BU:10:LYS:HA	1.61	0.82
24:BA:566:U:H5'	42:BU:82:ARG:HH12	1.42	0.82
45:BX:42:VAL:H	45:BX:61:ILE:HB	1.43	0.82
46:BY:139:VAL:HG12	46:BY:140:ASP:H	1.43	0.82
25:BB:76:G:OP1	46:BY:36:LYS:HD3	1.79	0.82
32:BK:93:THR:HG22	32:BK:96:ASP:CG	1.98	0.82
6:AG:168:ARG:HD2	6:AG:168:ARG:N	1.94	0.82
1:AA:1269:A:H2'	1:AA:1270:C:C4'	2.08	0.82
1:AA:519:C:H2'	1:AA:520:A:C5'	2.09	0.82
1:AA:642:A:N7	10:AK:115:SER:HA	1.95	0.82
5:AF:11:ARG:HB2	5:AF:15:THR:O	1.78	0.82
6:AG:78:LEU:HD11	6:AG:96:LEU:HB3	1.61	0.82
7:AH:52:PRO:HD2	7:AH:53:LEU:HD23	1.60	0.82
10:AK:32:LYS:HG2	10:AK:33:GLU:N	1.92	0.82
52:B5:25:LYS:HE2	54:B7:35:GLN:CG	2.09	0.82
52:B5:30:THR:HB	52:B5:31:PRO:CD	2.10	0.82
55:B8:2:LYS:HG2	55:B8:35:ARG:CB	2.07	0.82
24:BA:1718:G:N7	24:BA:1725:G:N7	2.27	0.82
24:BA:1878:G:H2'	24:BA:1879:C:H6	1.44	0.82
24:BA:2320:A:N6	39:BR:4:LEU:HD21	1.94	0.82
24:BA:373:U:H4'	24:BA:374:A:H8	1.41	0.82
24:BA:996:A:H5'	41:BT:93:LYS:HD2	1.61	0.82
34:BM:100:GLU:OE2	34:BM:100:GLU:HA	1.78	0.82
37:BP:109:VAL:HG11	37:BP:114:ALA:N	1.95	0.82
37:BP:16:ARG:C	37:BP:17:LEU:HD12	2.00	0.82
37:BP:51:ARG:CZ	37:BP:51:ARG:HB2	2.08	0.82
37:BP:75:THR:HG23	37:BP:91:GLU:CD	2.00	0.82
38:BQ:54:LEU:HA	38:BQ:57:ARG:HB2	1.59	0.82
39:BR:49:VAL:HG13	39:BR:76:LYS:HZ3	1.44	0.82
44:BW:50:LYS:NZ	44:BW:87:GLN:HB2	1.93	0.82
47:BZ:21:LEU:HD13	47:BZ:41:ARG:HG2	1.60	0.82
32:BK:114:LEU:CA	32:BK:130:TYR:HB3	2.10	0.82
1:AA:1163:C:H2'	1:AA:1164:G:H5'	1.60	0.82
1:AA:1206:G:H2'	1:AA:1207:G:O4'	1.79	0.82
1:AA:1302:U:C3'	1:AA:1303:C:H5'	2.09	0.82
1:AA:253:U:H2'	1:AA:254:G:C8	2.15	0.82
1:AA:280:C:H1'	19:AT:38:ARG:HD3	1.59	0.82
6:AG:58:LEU:CD1	6:AG:59:ARG:HH11	1.91	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:147:ASP:CA	7:AH:150:ARG:HB2	2.10	0.82
10:AK:22:GLU:O	10:AK:62:TYR:HA	1.79	0.82
11:AL:115:GLY:O	11:AL:117:HIS:N	2.11	0.82
15:AP:108:ARG:HH11	15:AP:108:ARG:HA	1.43	0.82
17:AR:70:LEU:HG	17:AR:78:TYR:CD1	2.14	0.82
1:AA:192:U:H4'	22:AW:57:ARG:HH12	1.41	0.82
22:AW:45:GLN:N	22:AW:91:LEU:HD12	1.94	0.82
24:BA:1300:U:H2'	24:BA:1626:G:C2	2.14	0.82
24:BA:1690:A:N6	24:BA:1697:G:H21	1.76	0.82
24:BA:1940:U:C5'	24:BA:1941:C:H5'	2.09	0.82
24:BA:2636:U:C4'	28:BE:79:ARG:HD3	2.10	0.82
24:BA:2653:U:H3'	24:BA:2654:A:H8	1.45	0.82
24:BA:603:A:N6	36:BO:104:GLY:HA2	1.94	0.82
27:BD:136:ILE:HD13	27:BD:173:VAL:HG11	1.60	0.82
27:BD:37:LEU:HD13	27:BD:64:ILE:N	1.93	0.82
27:BD:51:VAL:CG1	27:BD:52:ARG:HD2	2.09	0.82
28:BE:105:THR:OG1	28:BE:165:VAL:O	1.96	0.82
28:BE:170:LEU:HD12	28:BE:186:GLY:HA3	1.60	0.82
37:BP:64:ILE:HG22	37:BP:106:VAL:O	1.80	0.82
37:BP:51:ARG:HH21	37:BP:55:VAL:CG2	1.93	0.82
39:BR:14:VAL:O	39:BR:17:ARG:HB3	1.79	0.82
39:BR:26:LEU:HD22	39:BR:27:SER:N	1.95	0.82
39:BR:52:SER:OG	39:BR:69:VAL:HG13	1.79	0.82
42:BU:43:GLU:OE1	42:BU:43:GLU:O	1.96	0.82
42:BU:74:LYS:HD3	42:BU:74:LYS:H	1.41	0.82
44:BW:27:THR:HG22	44:BW:80:ILE:CG2	2.09	0.82
45:BX:97:ARG:CZ	45:BX:101:LYS:HG2	2.09	0.82
26:BC:46:LYS:HD3	26:BC:210:ARG:HB2	1.61	0.82
26:BC:81:GLU:HG3	26:BC:82:LYS:N	1.94	0.82
1:AA:345:C:H4'	1:AA:346:G:O5'	1.77	0.82
1:AA:962:C:O2'	1:AA:1200:C:C5	2.33	0.82
1:AA:679:C:H2'	1:AA:680:C:C6	2.14	0.82
1:AA:724:G:N2	1:AA:725:G:H1'	1.95	0.82
1:AA:781:A:H2'	1:AA:782:A:H5'	1.61	0.82
4:AE:113:HIS:O	4:AE:117:GLU:HG3	1.80	0.82
5:AF:57:ILE:HG12	5:AF:66:VAL:HG22	1.61	0.82
5:AF:47:LEU:CD1	5:AF:83:ARG:HH21	1.92	0.82
6:AG:196:LEU:N	6:AG:196:LEU:HD23	1.94	0.82
9:AJ:50:ILE:HD12	9:AJ:58:PRO:HB3	1.59	0.82
11:AL:66:ARG:HG2	11:AL:67:GLY:H	1.44	0.82
48:B1:2:ARG:O	48:B1:5:LEU:HB3	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:42:PRO:O	51:B4:43:HIS:HB3	1.80	0.82
24:BA:1213:A:C6	24:BA:1237:A:H1'	2.14	0.82
24:BA:1454:U:O2	24:BA:1454:U:H2'	1.78	0.82
24:BA:1847:A:N1	24:BA:1851:U:O4	2.12	0.82
24:BA:209:C:O2'	24:BA:210:C:H5'	1.80	0.82
24:BA:2639:A:N3	24:BA:2639:A:H2'	1.93	0.82
24:BA:386:G:N3	24:BA:386:G:H2'	1.95	0.82
24:BA:467:G:H2'	24:BA:468:G:H5'	1.62	0.82
27:BD:132:PRO:HA	27:BD:189:CYS:O	1.79	0.82
27:BD:146:GLU:HG2	27:BD:154:LYS:HE3	1.61	0.82
2:AC:19:G:H21	30:BG:82:LEU:CD1	1.92	0.82
32:BK:37:VAL:CG1	32:BK:38:LEU:H	1.92	0.82
33:BL:78:ILE:CD1	33:BL:127:ILE:HG23	2.09	0.82
34:BM:90:MET:HE1	34:BM:98:VAL:HG13	1.62	0.82
35:BN:25:LEU:HD21	35:BN:38:VAL:HG23	1.62	0.82
36:BO:93:GLY:H	36:BO:112:LEU:CD1	1.92	0.82
39:BR:106:ARG:HH12	39:BR:110:LEU:CB	1.91	0.82
34:BM:4:TYR:CB	41:BT:64:ARG:HH12	1.90	0.82
44:BW:54:VAL:HG22	44:BW:81:VAL:HB	1.62	0.82
46:BY:19:ARG:HG3	46:BY:24:LEU:HG	1.61	0.82
32:BK:76:THR:CA	32:BK:141:LYS:HE2	2.10	0.82
24:BA:2150:U:H2'	24:BA:2151:G:H8	1.43	0.82
26:BC:32:LEU:HD22	26:BC:220:PRO:HG2	1.62	0.82
32:BK:57:ARG:HD2	32:BK:61:ARG:HH22	1.44	0.82
1:AA:454:C:H5''	1:AA:455:C:OP2	1.78	0.82
4:AE:19:HIS:NE2	4:AE:206:ASP:HB2	1.93	0.82
6:AG:30:LYS:HE2	6:AG:35:ARG:NH1	1.95	0.82
10:AK:100:ILE:HB	10:AK:125:ARG:NH2	1.94	0.82
10:AK:72:PRO:O	10:AK:73:ASP:HB3	1.79	0.82
13:AN:53:SER:O	13:AN:55:LYS:N	2.12	0.82
15:AP:23:TYR:CD2	15:AP:70:LEU:HD13	2.13	0.82
1:AA:377:G:OP1	18:AS:5:ARG:NH1	2.12	0.82
19:AT:65:ILE:HG23	19:AT:69:LYS:O	1.80	0.82
48:B1:37:GLY:HA3	48:B1:41:GLN:HE21	1.44	0.82
52:B5:20:ASN:ND2	52:B5:43:CYS:SG	2.52	0.82
54:B7:25:MET:HE3	54:B7:44:LYS:HD3	1.60	0.82
24:BA:1149:G:O2'	24:BA:1150:C:H5'	1.79	0.82
24:BA:2014:A:C2'	24:BA:2015:A:C2	2.60	0.82
24:BA:2519:U:OP1	24:BA:2519:U:H3'	1.78	0.82
24:BA:2554:U:H5	24:BA:2556:C:N3	1.76	0.82
24:BA:2808:U:C3'	24:BA:2809:A:H5''	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2865:U:C4	24:BA:2866:U:H5	1.98	0.82
24:BA:724:U:O2'	24:BA:725:G:H5'	1.78	0.82
27:BD:136:ILE:HD12	27:BD:168:ARG:NH1	1.93	0.82
28:BE:5:LEU:CD2	28:BE:25:VAL:HG12	2.07	0.82
29:BF:121:GLY:O	29:BF:191:ARG:HG3	1.80	0.82
31:BH:35:VAL:HG12	31:BH:71:LEU:HG	1.59	0.82
33:BL:10:LEU:HD13	33:BL:27:LEU:HD21	1.59	0.82
34:BM:100:GLU:HB3	34:BM:104:LYS:CE	2.10	0.82
35:BN:12:ASP:HA	35:BN:94:ARG:HD2	1.60	0.82
24:BA:1218:C:OP2	41:BT:15:LYS:HE3	1.80	0.82
42:BU:28:GLU:HB3	42:BU:94:LEU:CD1	2.04	0.82
42:BU:76:LYS:HG2	42:BU:86:GLY:CA	2.08	0.82
1:AA:1367:C:OP1	11:AL:115:GLY:N	2.13	0.82
1:AA:19:C:O2	1:AA:572:A:H2	1.60	0.82
4:AE:178:ARG:HE	4:AE:196:LEU:HB2	1.44	0.82
5:AF:150:LYS:NZ	5:AF:152:ILE:HD13	1.95	0.82
9:AJ:104:LEU:HD22	9:AJ:134:ALA:HB1	1.61	0.82
9:AJ:23:VAL:HG13	9:AJ:43:PHE:CZ	2.14	0.82
10:AK:109:ILE:HG23	10:AK:137:VAL:O	1.77	0.82
13:AN:73:MET:CE	13:AN:103:LEU:HD22	2.09	0.82
1:AA:950:U:H5''	15:AP:102:ARG:HH22	1.44	0.82
15:AP:92:HIS:CE1	15:AP:110:ARG:NH2	2.48	0.82
21:AV:62:ILE:HG13	21:AV:66:MET:HG3	1.60	0.82
24:BA:397:G:P	50:B3:41:PRO:HG3	2.19	0.82
24:BA:1338:G:O2'	24:BA:1339:G:H5'	1.79	0.82
24:BA:1939:U:H1'	24:BA:2592:G:C1'	2.10	0.82
24:BA:2602:A:H3'	24:BA:2602:A:OP1	1.79	0.82
24:BA:343:C:C2'	24:BA:344:G:H5'	2.10	0.82
24:BA:511:U:C5	24:BA:512:G:N3	2.48	0.82
27:BD:242:ARG:O	27:BD:243:GLY:C	2.18	0.82
28:BE:117:MET:HG2	28:BE:136:ARG:NE	1.95	0.82
28:BE:13:ARG:NH2	28:BE:20:ALA:HB3	1.95	0.82
28:BE:60:ASN:CA	28:BE:63:LEU:HD12	2.04	0.82
30:BG:111:LEU:HB3	30:BG:112:PRO:HD3	1.60	0.82
30:BG:130:ASN:O	30:BG:159:VAL:HG23	1.79	0.82
33:BL:10:LEU:CD1	33:BL:12:LEU:HD11	2.09	0.82
34:BM:88:GLU:HB2	34:BM:89:LYS:HZ1	1.43	0.82
36:BO:96:THR:O	36:BO:102:ARG:HD3	1.80	0.82
37:BP:42:ILE:HG23	37:BP:47:ILE:HD11	1.59	0.82
37:BP:54:MET:CE	37:BP:118:LEU:HD23	2.09	0.82
40:BS:99:LEU:N	40:BS:99:LEU:HD22	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:101:ARG:HD2	42:BU:13:ARG:NH1	1.95	0.82
46:BY:27:VAL:CG2	46:BY:85:HIS:HE1	1.54	0.82
1:AA:173:U:C1'	1:AA:197:A:C2	2.63	0.82
1:AA:745:C:H5'	1:AA:851:G:N3	1.94	0.82
5:AF:183:ASP:O	5:AF:201:TYR:HA	1.80	0.82
7:AH:56:GLN:HE21	7:AH:56:GLN:H	1.27	0.82
7:AH:79:GLU:CD	7:AH:79:GLU:H	1.83	0.82
9:AJ:141:VAL:O	9:AJ:144:MET:HB2	1.79	0.82
11:AL:37:PHE:CD1	11:AL:43:ALA:HA	2.13	0.82
13:AN:16:SER:O	13:AN:35:PRO:HG3	1.80	0.82
22:AW:62:LEU:CA	22:AW:65:LYS:HG2	2.08	0.82
50:B3:7:PRO:HG2	50:B3:60:GLN:OE1	1.80	0.82
55:B8:17:ILE:HD12	55:B8:26:ILE:HD12	1.62	0.82
24:BA:1507:A:H2'	24:BA:1507:A:N3	1.94	0.82
24:BA:1527:G:H3'	24:BA:1527:G:C8	2.15	0.82
24:BA:1949:G:O2'	24:BA:1950:G:H5'	1.78	0.82
24:BA:2013:A:H2'	24:BA:2014:A:O4'	1.80	0.82
24:BA:2492:U:C2'	24:BA:2492:U:O2	2.28	0.82
24:BA:2031:A:N6	24:BA:2498:C:C2	2.46	0.82
24:BA:2756:U:O2'	24:BA:2757:A:C5'	2.27	0.82
24:BA:2861:G:H2'	24:BA:2862:G:C8	2.13	0.82
24:BA:402:A:N3	24:BA:402:A:H2'	1.95	0.82
24:BA:672:C:H2'	24:BA:673:C:C6	2.14	0.82
24:BA:744:G:H2'	24:BA:745:G:C8	2.14	0.82
24:BA:752:A:H62	24:BA:1781:C:C1'	1.92	0.82
24:BA:951:C:O2'	24:BA:952:G:H5'	1.78	0.82
27:BD:95:LEU:HB2	27:BD:105:ILE:HG21	1.59	0.82
27:BD:120:GLY:O	27:BD:122:ASP:N	2.12	0.82
28:BE:51:PHE:HE1	28:BE:75:VAL:H	1.24	0.82
30:BG:11:TYR:O	30:BG:15:VAL:HG13	1.79	0.82
30:BG:56:ALA:O	30:BG:60:LEU:HD23	1.80	0.82
31:BH:51:ARG:HG3	31:BH:53:GLU:OE1	1.79	0.82
36:BO:15:ARG:CZ	36:BO:16:ARG:N	2.43	0.82
37:BP:22:LYS:HG3	37:BP:23:GLY:H	1.43	0.82
38:BQ:73:VAL:HG23	38:BQ:74:LYS:H	1.44	0.82
41:BT:111:GLU:HA	41:BT:114:LYS:CE	2.09	0.82
43:BV:13:SER:CB	43:BV:16:LYS:HE2	2.10	0.82
45:BX:21:LYS:HB2	45:BX:23:ARG:NH1	1.93	0.82
46:BY:25:PRO:HG2	46:BY:85:HIS:HA	1.60	0.82
26:BC:86:ALA:CA	26:BC:150:GLY:HA2	2.07	0.82
26:BC:180:PHE:CE2	26:BC:184:LYS:HD3	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:209:LEU:CD1	26:BC:226:PRO:HG3	2.10	0.82
1:AA:955:U:H1'	1:AA:1227:A:H61	1.44	0.82
1:AA:1318:A:H4'	21:AV:10:PHE:HD2	1.43	0.82
8:AI:37:VAL:HA	8:AI:65:VAL:HG11	1.62	0.82
12:AM:32:ALA:HB2	12:AM:75:ILE:O	1.79	0.82
17:AR:35:ARG:O	17:AR:39:LEU:HD22	1.78	0.82
50:B3:65:ASP:HA	50:B3:68:ARG:HH12	1.42	0.82
24:BA:1059:G:C2'	33:BL:74:ALA:HB2	2.10	0.82
24:BA:1546:C:H4'	24:BA:1547:C:H5	1.45	0.82
24:BA:1669:A:N3	24:BA:1669:A:H2'	1.93	0.82
24:BA:1999:C:C2'	24:BA:2000:G:O5'	2.28	0.82
24:BA:2083:G:H2'	24:BA:2084:C:C6	2.14	0.82
24:BA:2291:U:H2'	24:BA:2292:C:H6	1.45	0.82
24:BA:2447:G:O2'	24:BA:2448:A:OP2	1.97	0.82
24:BA:296:C:H6	24:BA:338:G:N2	1.77	0.82
24:BA:746:A:H2'	24:BA:2611:U:O2'	1.80	0.82
27:BD:176:ARG:NH1	27:BD:182:LEU:HD11	1.94	0.82
27:BD:232:PRO:CG	27:BD:247:ALA:HA	2.10	0.82
24:BA:1799:G:H8	27:BD:268:ARG:HH12	0.87	0.82
28:BE:109:LYS:HG2	28:BE:191:PRO:HG3	1.62	0.82
29:BF:133:ASN:HB3	29:BF:162:LEU:HD22	1.61	0.82
30:BG:75:LYS:CD	30:BG:85:GLY:H	1.93	0.82
38:BQ:105:ARG:NE	38:BQ:105:ARG:HA	1.95	0.82
46:BY:102:LEU:HB2	46:BY:123:ASP:O	1.79	0.82
26:BC:131:LEU:O	26:BC:134:ARG:NH1	2.12	0.82
24:BA:1579:A:N6	24:BA:1581:G:N2	2.26	0.82
24:BA:2097:C:C2'	24:BA:2098:U:H5'	2.09	0.82
1:AA:130:A:C6	1:AA:264:U:H1'	2.13	0.81
1:AA:1418:A:C2	1:AA:1483:A:N1	2.48	0.81
1:AA:20:U:H2'	1:AA:21:G:O4'	1.79	0.81
4:AE:44:LEU:O	4:AE:48:MET:SD	2.38	0.81
6:AG:20:TYR:CA	6:AG:26:CYS:SG	2.68	0.81
9:AJ:38:LEU:CA	9:AJ:41:ARG:HG3	2.09	0.81
7:AH:78:HIS:CB	10:AK:104:ARG:HD3	2.10	0.81
12:AM:30:SER:HB2	12:AM:81:THR:CA	2.09	0.81
19:AT:15:MET:CB	19:AT:18:THR:HB	2.09	0.81
49:B2:4:LEU:CD2	49:B2:37:LEU:HD13	2.10	0.81
52:B5:16:CYS:HB2	52:B5:49:HIS:CA	2.09	0.81
52:B5:20:ASN:ND2	52:B5:43:CYS:H	1.76	0.81
24:BA:1335:U:OP2	44:BW:65:ARG:NE	2.11	0.81
24:BA:1479:G:H2'	24:BA:1480:G:C8	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1464:C:C4'	24:BA:1528:A:O2'	2.25	0.81
24:BA:1784:A:H1'	24:BA:1785:A:C8	2.13	0.81
24:BA:2784:C:H2'	24:BA:2785:C:C6	2.14	0.81
24:BA:292:C:H2'	24:BA:293:U:C2	2.15	0.81
24:BA:527:C:H1'	24:BA:528:A:N1	1.95	0.81
24:BA:563:G:H1	24:BA:578:A:N6	1.77	0.81
24:BA:670:A:H4'	24:BA:671:C:H5'	1.61	0.81
24:BA:730:C:C3'	24:BA:731:C:H5'	2.10	0.81
24:BA:959:A:N6	24:BA:960:A:N6	2.27	0.81
25:BB:28:C:H6	25:BB:28:C:O5'	1.61	0.81
27:BD:175:LEU:C	27:BD:182:LEU:HD23	1.99	0.81
24:BA:1798:U:H5''	27:BD:257:LEU:HB2	1.61	0.81
29:BF:118:ALA:HA	29:BF:122:LYS:HZ3	1.44	0.81
29:BF:152:GLU:HA	29:BF:152:GLU:OE2	1.78	0.81
30:BG:37:VAL:HG13	30:BG:159:VAL:HG12	1.60	0.81
30:BG:53:LEU:HD11	30:BG:72:ARG:HB2	1.62	0.81
31:BH:68:THR:O	31:BH:72:ILE:HG12	1.80	0.81
33:BL:17:ALA:HB1	33:BL:38:VAL:HG13	1.62	0.81
35:BN:2:ILE:HG21	35:BN:32:TYR:HB3	1.61	0.81
36:BO:127:ALA:O	36:BO:147:LEU:HD21	1.79	0.81
38:BQ:61:HIS:O	38:BQ:64:ARG:CD	2.28	0.81
38:BQ:61:HIS:O	38:BQ:64:ARG:HD3	1.80	0.81
39:BR:62:LYS:HB3	39:BR:65:VAL:HB	1.61	0.81
39:BR:69:VAL:O	39:BR:73:LEU:HD13	1.79	0.81
41:BT:102:GLU:CB	41:BT:105:VAL:HB	2.10	0.81
42:BU:65:GLY:O	42:BU:66:ARG:HG2	1.80	0.81
3:AD:8:U:H3	3:AD:14:A:H62	1.24	0.81
28:BE:127:ASP:HB2	28:BE:135:HIS:CA	2.07	0.81
1:AA:1049:U:H1'	1:AA:1201:A:C8	2.13	0.81
1:AA:1289:A:N6	1:AA:1371:G:O2'	2.12	0.81
1:AA:944:G:H3'	1:AA:945:G:C5'	2.10	0.81
4:AE:102:LEU:HB2	4:AE:176:GLU:OE1	1.80	0.81
4:AE:25:ASN:HD21	4:AE:27:LYS:HG2	1.45	0.81
8:AI:31:GLU:HA	8:AI:35:ALA:HB3	1.61	0.81
8:AI:30:LEU:CB	8:AI:35:ALA:HB2	2.09	0.81
9:AJ:91:VAL:O	9:AJ:91:VAL:HG12	1.80	0.81
1:AA:1226:C:C4	15:AP:104:ARG:HG3	2.15	0.81
20:AU:74:ARG:HA	20:AU:79:LEU:HD11	1.61	0.81
48:B1:27:LEU:HA	48:B1:30:LEU:CG	2.09	0.81
50:B3:48:ARG:N	50:B3:52:THR:OG1	2.12	0.81
50:B3:47:GLN:CA	50:B3:52:THR:OG1	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:14:VAL:HG12	54:B7:22:VAL:HG11	1.61	0.81
24:BA:1225:C:O2'	24:BA:1226:G:H5'	1.79	0.81
24:BA:1451:C:H3'	24:BA:1453:A:H4'	1.62	0.81
24:BA:1882:C:H2'	24:BA:1883:G:C4'	2.10	0.81
24:BA:1904:G:O2'	24:BA:1905:C:H5'	1.79	0.81
24:BA:2413:G:C2	24:BA:2414:G:H1'	2.14	0.81
24:BA:292:C:C6	24:BA:293:U:O4	2.33	0.81
24:BA:30:G:H2'	24:BA:31:C:H6	1.42	0.81
24:BA:324:A:H2	24:BA:325:G:C1'	1.92	0.81
24:BA:606:U:OP1	29:BF:103:LYS:N	2.12	0.81
29:BF:142:TRP:HA	29:BF:145:GLU:CG	2.09	0.81
31:BH:149:ARG:HG2	31:BH:153:LYS:CD	2.10	0.81
31:BH:7:LEU:HB2	31:BH:52:VAL:HG13	1.62	0.81
33:BL:72:PRO:HG2	33:BL:111:LYS:HZ2	1.45	0.81
24:BA:804:A:H62	36:BO:39:LYS:NZ	1.76	0.81
38:BQ:17:ARG:HH11	38:BQ:17:ARG:HB2	1.45	0.81
39:BR:37:ALA:O	39:BR:51:ALA:CB	2.27	0.81
43:BV:13:SER:O	43:BV:17:VAL:HG13	1.80	0.81
24:BA:2254:C:O2	47:BZ:7:LEU:HD11	1.80	0.81
3:AD:18:G:H2'	3:AD:19:G:H4'	1.62	0.81
24:BA:2177:C:H5"	26:BC:213:TYR:CD2	2.15	0.81
1:AA:340:U:H2'	1:AA:341:C:H6	1.44	0.81
1:AA:540:G:H21	6:AG:42:GLN:CD	1.83	0.81
1:AA:886:G:O2'	1:AA:887:G:H5'	1.78	0.81
1:AA:911:U:H2'	1:AA:912:C:C6	2.14	0.81
6:AG:18:LYS:HB3	6:AG:20:TYR:CD1	2.15	0.81
6:AG:63:LYS:HG2	6:AG:64:LEU:N	1.96	0.81
17:AR:60:VAL:O	17:AR:63:ARG:HG3	1.79	0.81
19:AT:45:HIS:O	19:AT:73:VAL:HG23	1.80	0.81
22:AW:50:GLU:N	22:AW:99:LEU:HD12	1.95	0.81
48:B1:36:ILE:HG23	48:B1:37:GLY:N	1.95	0.81
50:B3:43:TYR:HA	50:B3:61:ARG:NH2	1.95	0.81
52:B5:17:LYS:HD3	52:B5:17:LYS:H	1.44	0.81
52:B5:32:ASN:CG	52:B5:33:LYS:H	1.81	0.81
53:B6:34:ARG:HB3	53:B6:34:ARG:HH11	1.45	0.81
55:B8:7:VAL:HB	55:B8:36:GLN:CD	2.01	0.81
24:BA:1309:G:C2'	24:BA:1310:G:H5'	2.09	0.81
24:BA:1853:A:H2'	24:BA:1854:A:C8	2.15	0.81
24:BA:1917:U:H2'	24:BA:1918:A:O4'	1.80	0.81
24:BA:1772:G:C4	24:BA:1980:G:N2	2.48	0.81
24:BA:1135:C:HO2'	24:BA:2038:G:HO2'	1.03	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2422:A:H5''	24:BA:2423:U:OP1	1.80	0.81
24:BA:2498:C:O2	24:BA:2498:C:C2'	2.29	0.81
24:BA:2830:G:H5'	28:BE:57:LYS:CE	2.10	0.81
24:BA:568:U:H2'	24:BA:570:G:N7	1.95	0.81
24:BA:877:U:O2'	24:BA:878:A:H5'	1.80	0.81
29:BF:122:LYS:HD2	29:BF:124:LEU:CD1	2.09	0.81
31:BH:163:TYR:HB3	31:BH:166:GLY:HA2	1.61	0.81
33:BL:104:VAL:HG13	33:BL:127:ILE:HD12	1.61	0.81
35:BN:105:GLU:O	35:BN:111:PHE:CZ	2.32	0.81
35:BN:16:ALA:O	35:BN:18:LYS:N	2.14	0.81
41:BT:38:THR:O	41:BT:41:ALA:HB3	1.80	0.81
44:BW:9:LEU:HB3	44:BW:30:VAL:HG12	1.60	0.81
46:BY:94:GLU:N	46:BY:95:PRO:CD	2.41	0.81
47:BZ:45:PHE:HB3	47:BZ:59:LEU:CD1	2.11	0.81
1:AA:1156:G:H1'	1:AA:1179:A:H61	1.43	0.81
1:AA:1242:C:O2'	1:AA:1303:C:H5''	1.79	0.81
1:AA:279:A:H1'	1:AA:281:G:C2	2.15	0.81
9:AJ:75:VAL:HG22	9:AJ:88:PRO:HB3	1.62	0.81
14:AO:85:ILE:HD12	14:AO:99:HIS:O	1.80	0.81
23:AX:7:ARG:HG3	23:AX:8:THR:H	1.46	0.81
54:B7:10:ALA:HA	54:B7:60:LEU:CD1	2.10	0.81
24:BA:1265:A:C8	24:BA:1267:U:O4	2.33	0.81
24:BA:1790:C:HO2'	27:BD:209:ALA:CB	1.87	0.81
24:BA:1899:G:N2	24:BA:1902:C:N4	2.28	0.81
24:BA:2082:A:H2'	24:BA:2083:G:C8	2.14	0.81
24:BA:2084:C:H2'	24:BA:2085:C:C6	2.13	0.81
24:BA:2690:C:C5	38:BQ:14:SER:HB2	2.14	0.81
24:BA:2832:U:H2'	24:BA:2832:U:O2	1.80	0.81
29:BF:158:THR:HG21	29:BF:196:LEU:N	1.96	0.81
24:BA:675:A:H5''	29:BF:67:GLN:NE2	1.95	0.81
30:BG:165:THR:HB	30:BG:168:GLU:CD	2.00	0.81
46:BY:104:PHE:CD2	46:BY:104:PHE:N	2.44	0.81
24:BA:1587:A:H2'	24:BA:1588:C:C6	2.16	0.81
1:AA:1302:U:C2'	1:AA:1303:C:H5'	2.10	0.81
1:AA:1376:U:O2	1:AA:1377:A:N7	2.14	0.81
1:AA:197:A:N6	1:AA:221:C:H4'	1.94	0.81
1:AA:498:A:H4'	1:AA:500:G:OP1	1.79	0.81
1:AA:50:A:H5''	1:AA:51:A:C5'	2.09	0.81
4:AE:71:VAL:O	4:AE:164:VAL:HG23	1.79	0.81
13:AN:33:THR:HA	13:AN:39:PRO:HA	1.62	0.81
15:AP:20:THR:HA	15:AP:25:ILE:HB	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:81:ARG:HG2	18:AS:83:GLU:HG2	1.61	0.81
24:BA:1033:U:C5'	55:B8:16:VAL:HG11	2.10	0.81
24:BA:1131:G:N2	34:BM:72:TYR:OH	2.13	0.81
24:BA:1479:G:H2'	24:BA:1480:G:H8	1.43	0.81
24:BA:1567:A:O2'	24:BA:1568:G:N1	2.14	0.81
24:BA:1820:U:N1	27:BD:202:LYS:HG2	1.96	0.81
24:BA:1983:C:O2'	24:BA:1984:G:H5'	1.81	0.81
24:BA:623:G:OP2	36:BO:105:LEU:HD11	1.79	0.81
24:BA:602:G:H2'	24:BA:655:A:C6	2.15	0.81
24:BA:684:G:C1'	24:BA:687:C:H41	1.93	0.81
24:BA:987:G:O2'	24:BA:1000:A:H1'	1.80	0.81
24:BA:1790:C:OP1	27:BD:213:ARG:NH1	2.14	0.81
27:BD:246:PRO:CG	27:BD:250:TRP:HB2	2.11	0.81
28:BE:34:VAL:HG11	28:BE:36:ARG:HH22	1.45	0.81
24:BA:673:C:H4'	29:BF:82:ILE:CD1	2.09	0.81
30:BG:6:ALA:O	30:BG:10:LYS:HG2	1.79	0.81
32:BK:29:TYR:CD1	32:BK:29:TYR:N	2.44	0.81
33:BL:101:TRP:HZ3	33:BL:105:LEU:HG	1.46	0.81
34:BM:52:VAL:HG13	34:BM:120:LEU:HD13	1.61	0.81
36:BO:65:ARG:NH1	36:BO:68:GLN:HE22	1.78	0.81
36:BO:81:GLN:C	36:BO:86:LYS:HG2	2.01	0.81
38:BQ:16:HIS:O	38:BQ:19:ALA:HB3	1.80	0.81
38:BQ:17:ARG:NH1	38:BQ:17:ARG:HB2	1.95	0.81
39:BR:9:ARG:O	39:BR:12:PHE:CD2	2.33	0.81
40:BS:32:TYR:N	40:BS:32:TYR:CD1	2.45	0.81
43:BV:18:ARG:HD2	43:BV:75:TYR:HB3	1.62	0.81
26:BC:129:ARG:C	26:BC:130:ILE:HD12	2.00	0.81
32:BK:19:VAL:HG12	32:BK:20:ASP:H	1.46	0.81
1:AA:134:A:H1'	1:AA:325:A:C6	2.16	0.81
1:AA:1354:C:H2'	1:AA:1355:G:C8	2.15	0.81
1:AA:199:G:H2'	1:AA:200:G:H8	1.44	0.81
1:AA:576:G:N7	1:AA:881:G:C1'	2.44	0.81
4:AE:222:ILE:O	4:AE:226:ARG:HB3	1.79	0.81
6:AG:57:ARG:NH2	7:AH:107:ARG:HD3	1.93	0.81
7:AH:77:PRO:HG2	7:AH:78:HIS:HD2	1.42	0.81
13:AN:42:TRP:CZ3	13:AN:47:VAL:HG21	2.15	0.81
13:AN:95:ILE:HG23	13:AN:98:LEU:HD12	1.60	0.81
1:AA:581:G:H4'	17:AR:64:ARG:HH12	1.44	0.81
18:AS:32:TYR:CD1	18:AS:32:TYR:N	2.48	0.81
48:B1:24:LYS:HG2	48:B1:52:ILE:CG2	2.10	0.81
49:B2:18:ASP:O	49:B2:21:ALA:HB3	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1174:A:N6	24:BA:1177:A:C4	2.46	0.81
24:BA:1291:C:H5'	24:BA:1535:U:O2'	1.80	0.81
24:BA:1793:C:N4	24:BA:1825:A:H61	1.78	0.81
24:BA:2063:C:O2	24:BA:2450:A:N6	2.14	0.81
24:BA:2654:A:H1'	24:BA:2656:U:C5	2.15	0.81
24:BA:270(V):G:H2'	24:BA:270(W):G:C8	2.16	0.81
24:BA:271(B):G:H4'	24:BA:271(C):U:OP2	1.78	0.81
24:BA:29:U:H2'	24:BA:30:G:H8	1.45	0.81
24:BA:714:U:H2'	24:BA:715:G:C8	2.15	0.81
27:BD:234:GLY:N	27:BD:241:PRO:HG2	1.93	0.81
27:BD:5:LYS:HB3	27:BD:82:ILE:HG22	1.63	0.81
28:BE:114:ALA:CB	28:BE:118:LYS:HB2	2.10	0.81
28:BE:169:ASN:HD22	28:BE:170:LEU:H	1.24	0.81
36:BO:112:LEU:HG	36:BO:128:HIS:CE1	2.15	0.81
36:BO:91:PHE:CE2	36:BO:96:THR:HG22	2.15	0.81
37:BP:8:LYS:HZ3	37:BP:11:LYS:HE3	1.45	0.81
37:BP:16:ARG:NH2	37:BP:73:PRO:HD3	1.96	0.81
45:BX:14:LEU:HD21	45:BX:19:LYS:HE3	1.63	0.81
45:BX:47:LYS:HZ3	45:BX:51:VAL:HG21	1.45	0.81
46:BY:111:VAL:HG22	46:BY:117:LEU:HG	1.63	0.81
46:BY:126:VAL:O	46:BY:127:LYS:HD3	1.81	0.81
47:BZ:19:LYS:HZ1	47:BZ:41:ARG:HE	1.25	0.81
3:AD:19:G:N2	3:AD:57:G:H1'	1.95	0.81
26:BC:33:ALA:O	26:BC:39:GLU:HB2	1.79	0.81
1:AA:1021:G:H2'	1:AA:1022:G:O4'	1.81	0.81
1:AA:243:A:O2'	1:AA:244:U:OP2	1.97	0.81
1:AA:915:A:C2'	1:AA:916:G:H5'	2.11	0.81
1:AA:955:U:H1'	1:AA:1227:A:N6	1.96	0.81
5:AF:11:ARG:HB3	5:AF:11:ARG:HH11	1.46	0.81
11:AL:78:LYS:HA	11:AL:81:ILE:HD12	1.61	0.81
12:AM:60:ARG:NH1	12:AM:60:ARG:HB2	1.95	0.81
17:AR:33:THR:CG2	17:AR:87:ILE:HD11	2.11	0.81
1:AA:275:G:H5'	19:AT:14:LYS:NZ	1.94	0.81
20:AU:58:LEU:HB3	20:AU:62:GLU:CG	2.10	0.81
20:AU:62:GLU:O	20:AU:66:LEU:HG	1.80	0.81
51:B4:40:LYS:NZ	51:B4:43:HIS:HA	1.94	0.81
54:B7:16:ILE:HA	54:B7:21:LYS:O	1.80	0.81
24:BA:1001:A:H2'	24:BA:1002:G:O4'	1.80	0.81
24:BA:1342:A:H8	24:BA:1342:A:O5'	1.64	0.81
24:BA:1394:U:O3'	24:BA:1603:A:H5''	1.81	0.81
24:BA:1540:G:C2'	24:BA:1541:U:H5'	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1657:C:H2'	24:BA:1658:C:H6	1.43	0.81
24:BA:1862:G:H2'	24:BA:1863:G:C8	2.16	0.81
24:BA:2456:C:O2'	24:BA:2457:U:H5'	1.80	0.81
24:BA:2522:U:C6	24:BA:2522:U:H5'	2.16	0.81
24:BA:301:G:H2'	24:BA:302:C:C6	2.16	0.81
24:BA:412:A:H2'	24:BA:413:C:O4'	1.80	0.81
24:BA:783:A:N6	24:BA:785:G:C8	2.49	0.81
24:BA:974:G:N7	24:BA:974(A):C:C5	2.49	0.81
25:BB:83:G:O2'	25:BB:84:C:H5'	1.81	0.81
24:BA:1902:C:H5'	27:BD:244:ARG:NE	1.95	0.81
27:BD:70:TRP:HZ3	27:BD:190:TYR:HB2	1.46	0.81
29:BF:146:ALA:O	29:BF:148:LEU:HD22	1.81	0.81
31:BH:90:LYS:HB3	31:BH:90:LYS:HZ2	1.45	0.81
34:BM:109:LYS:CG	34:BM:110:GLY:H	1.92	0.81
34:BM:12:ARG:O	34:BM:12:ARG:HG2	1.78	0.81
34:BM:33:LEU:HD11	34:BM:52:VAL:HG11	1.62	0.81
35:BN:103:ALA:O	35:BN:104:ARG:C	2.19	0.81
40:BS:76:PHE:HE2	40:BS:78:LEU:HD11	1.44	0.81
41:BT:55:ARG:HD2	41:BT:55:ARG:H	1.45	0.81
45:BX:33:LYS:HB3	45:BX:35:TYR:HE2	1.46	0.81
46:BY:120:ILE:HD12	46:BY:120:ILE:H	1.43	0.81
46:BY:127:LYS:HD3	46:BY:165:VAL:HG23	1.62	0.81
3:AD:22:G:H2'	3:AD:23:A:H8	1.46	0.81
26:BC:103:ILE:HA	26:BC:107:TRP:O	1.79	0.81
26:BC:76:ALA:CA	26:BC:149:ILE:HD11	2.11	0.81
1:AA:642:A:O2'	10:AK:31:PHE:HE1	1.64	0.81
4:AE:118:LEU:HD21	4:AE:142:LEU:HB2	1.62	0.81
4:AE:9:GLU:HB2	4:AE:217:ARG:NH2	1.96	0.81
9:AJ:70:LYS:HB3	9:AJ:96:GLN:HG2	1.59	0.81
48:B1:23:LYS:HE3	48:B1:52:ILE:HD13	1.60	0.81
24:BA:51:G:N2	24:BA:120:U:N3	2.29	0.81
24:BA:1799:G:N2	27:BD:157:ARG:HH22	1.78	0.81
24:BA:1968:G:O2'	24:BA:1969:A:H8	1.62	0.81
24:BA:411:G:O5'	24:BA:2407:G:OP1	1.98	0.81
24:BA:2461:C:C1'	24:BA:2492:U:H5	1.90	0.81
24:BA:2832:U:C2'	24:BA:2879:C:H42	1.93	0.81
24:BA:847:U:O4	24:BA:933:A:N1	2.14	0.81
24:BA:996:A:C4'	41:BT:93:LYS:HG3	2.10	0.81
28:BE:91:VAL:HG13	28:BE:95:ILE:HD13	1.62	0.81
30:BG:56:ALA:HA	30:BG:59:GLU:OE1	1.79	0.81
32:BK:4:ILE:HD11	32:BK:39:ALA:N	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:11:ALA:HB2	35:BN:17:ARG:NE	1.95	0.81
37:BP:111:GLU:C	37:BP:113:GLN:H	1.81	0.81
42:BU:6:LYS:HG2	42:BU:12:TYR:H	0.76	0.81
42:BU:13:ARG:HE	42:BU:13:ARG:HA	1.44	0.81
42:BU:61:VAL:HG12	42:BU:62:LEU:N	1.94	0.81
46:BY:76:LEU:HA	46:BY:83:PRO:HA	1.63	0.81
26:BC:10:LEU:O	26:BC:13:LYS:HB2	1.81	0.81
26:BC:116:THR:HA	26:BC:146:GLY:O	1.80	0.81
26:BC:89:ALA:HB1	26:BC:154:ARG:HG3	1.63	0.81
24:BA:1418:G:H1'	24:BA:1581:G:N2	1.95	0.81
1:AA:1197:G:H2'	1:AA:1198:G:H5'	1.63	0.81
1:AA:1236:A:H4'	1:AA:1304:G:C4'	2.08	0.81
1:AA:191:G:N2	22:AW:103:GLY:O	2.13	0.81
1:AA:392:G:H5'	18:AS:12:LYS:CE	2.10	0.81
6:AG:60:GLU:HA	6:AG:63:LYS:HD3	1.62	0.81
7:AH:74:GLY:C	7:AH:115:VAL:HG12	2.01	0.81
11:AL:47:LEU:HD13	11:AL:50:LEU:HB3	1.62	0.81
13:AN:42:TRP:CE3	13:AN:43:SER:HA	2.16	0.81
15:AP:14:ARG:CG	15:AP:17:VAL:HG23	2.11	0.81
15:AP:74:VAL:O	15:AP:78:ILE:HG13	1.81	0.81
48:B1:14:VAL:HG22	48:B1:18:LYS:HE3	1.63	0.81
53:B6:20:ALA:HA	53:B6:23:ARG:NH1	1.96	0.81
24:BA:1339:G:C5'	44:BW:16:LYS:HD3	2.11	0.81
24:BA:1394:U:H5''	24:BA:1604:C:P	2.19	0.81
24:BA:1819:A:H1'	24:BA:1821:A:N3	1.95	0.81
24:BA:1935:G:C4'	24:BA:1937:A:C2	2.64	0.81
24:BA:2884:U:H2'	24:BA:2885:C:O4'	1.80	0.81
24:BA:59:U:H3'	24:BA:60:G:H5''	1.63	0.81
24:BA:727:A:C2	24:BA:729:G:C6	2.69	0.81
24:BA:728:G:C2	24:BA:762:U:H3'	2.15	0.81
24:BA:805:G:H2'	24:BA:806:C:OP1	1.81	0.81
24:BA:872:A:O2'	37:BP:66:ILE:HD13	1.80	0.81
28:BE:133:LYS:HD2	28:BE:137:HIS:HB3	1.63	0.81
28:BE:137:HIS:HB2	28:BE:138:PRO:CD	2.09	0.81
28:BE:92:THR:C	28:BE:95:ILE:HB	2.01	0.81
31:BH:149:ARG:CA	31:BH:162:ILE:HD13	2.10	0.81
36:BO:76:LYS:HE3	36:BO:101:VAL:HG21	1.62	0.81
36:BO:63:PRO:O	36:BO:65:ARG:HD3	1.80	0.81
36:BO:76:LYS:O	36:BO:115:LEU:HD13	1.81	0.81
38:BQ:77:ARG:HG3	38:BQ:77:ARG:NH1	1.91	0.81
39:BR:89:ARG:NH2	39:BR:90:GLY:O	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:40:LEU:HD23	42:BU:51:VAL:CG1	2.02	0.81
46:BY:50:GLN:HB3	46:BY:53:ILE:HB	1.63	0.81
46:BY:98:MET:HE2	46:BY:99:TYR:N	1.95	0.81
47:BZ:82:ARG:CD	47:BZ:83:PRO:HD2	2.10	0.81
26:BC:73:ARG:HD3	26:BC:92:ASP:CG	2.00	0.81
4:AE:230:VAL:HG12	4:AE:231:GLU:H	1.46	0.81
1:AA:129(A):G:N2	1:AA:191(A):G:C5	2.49	0.81
1:AA:237:C:H5''	19:AT:25:ARG:CZ	2.10	0.81
1:AA:573:A:N3	1:AA:883:C:O2'	2.14	0.81
5:AF:186:PHE:HA	5:AF:198:VAL:O	1.80	0.81
9:AJ:75:VAL:HG22	9:AJ:88:PRO:CB	2.11	0.81
11:AL:116:LYS:HB3	11:AL:122:ALA:HA	1.61	0.81
19:AT:18:THR:HG23	19:AT:69:LYS:NZ	1.95	0.81
21:AV:22:LEU:CG	21:AV:25:LYS:HE2	2.11	0.81
24:BA:2371:G:C5'	52:B5:45:LYS:HB3	2.10	0.81
55:B8:15:LYS:O	55:B8:25:VAL:HG13	1.81	0.81
24:BA:1026:U:H2'	24:BA:1026:U:O2	1.80	0.81
24:BA:1012:U:O2	24:BA:1142(A):A:H4'	1.81	0.81
24:BA:1290:C:H2'	24:BA:1291:C:C6	2.16	0.81
24:BA:1373:A:H2'	24:BA:1374:G:C8	2.16	0.81
24:BA:1394:U:H4'	24:BA:1603:A:C4'	2.05	0.81
24:BA:1464:C:H2'	24:BA:1465:G:H8	1.46	0.81
24:BA:2018:G:H2'	24:BA:2019:A:O4'	1.81	0.81
24:BA:2254:C:H2'	24:BA:2255:G:H5'	1.63	0.81
24:BA:2296:U:C1'	24:BA:2335:A:H61	1.93	0.81
24:BA:2320:A:H1'	24:BA:2333:A:C6	2.15	0.81
24:BA:447:A:H1'	24:BA:449:A:N6	1.96	0.81
27:BD:169:GLU:HB3	27:BD:174:ILE:HD11	1.61	0.81
28:BE:2:LYS:CE	28:BE:83:ASP:HB3	2.11	0.81
29:BF:36:VAL:HG21	29:BF:183:VAL:HG21	1.60	0.81
30:BG:55:LYS:CE	30:BG:152:LEU:HD21	2.10	0.81
32:BK:34:GLY:O	32:BK:35:LEU:HD13	1.80	0.81
34:BM:33:LEU:HD22	34:BM:33:LEU:C	2.01	0.81
35:BN:35:VAL:HA	35:BN:61:VAL:HG11	1.62	0.81
36:BO:112:LEU:CG	36:BO:128:HIS:HE1	1.93	0.81
37:BP:27:VAL:HG23	37:BP:138:ASP:OD2	1.81	0.81
39:BR:106:ARG:HD3	39:BR:107:GLU:N	1.96	0.81
39:BR:94:TYR:HA	39:BR:98:VAL:HG22	1.63	0.81
39:BR:32:LEU:HA	39:BR:97:ARG:NH1	1.96	0.81
40:BS:104:ASN:CA	40:BS:108:ARG:NH2	2.43	0.81
41:BT:53:ARG:NH1	41:BT:53:ARG:CB	2.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:93:LYS:NZ	41:BT:93:LYS:HA	1.95	0.81
24:BA:2117:A:H61	24:BA:2171:A:N6	1.78	0.81
24:BA:2135:A:H5'	24:BA:2135:A:C4	2.15	0.81
26:BC:39:GLU:OE2	26:BC:216:THR:HB	1.80	0.81
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.16	0.81
1:AA:126:G:C6	1:AA:236:G:O6	2.34	0.81
1:AA:962:C:HO2'	1:AA:1200:C:H5	1.26	0.81
4:AE:115:LEU:HD12	4:AE:118:LEU:HD13	1.63	0.81
4:AE:141:GLU:OE2	4:AE:145:LEU:HD23	1.81	0.81
4:AE:220:ASP:O	4:AE:224:GLN:HG3	1.81	0.81
5:AF:47:LEU:HD22	5:AF:47:LEU:N	1.95	0.81
10:AK:122:ARG:O	10:AK:125:ARG:HB3	1.81	0.81
10:AK:21:LYS:C	10:AK:63:LEU:HD11	2.00	0.81
11:AL:19:LEU:HD22	11:AL:59:PHE:HD2	1.46	0.81
1:AA:539:A:OP2	14:AO:115:LYS:HE2	1.81	0.81
16:AQ:60:SER:O	16:AQ:61:TRP:HB3	1.81	0.81
20:AU:54:ARG:O	20:AU:55:ARG:HG2	1.80	0.81
23:AX:11:GLY:O	23:AX:15:ARG:HG2	1.81	0.81
48:B1:20:VAL:CA	48:B1:55:LEU:HD23	2.11	0.81
24:BA:126:A:N7	24:BA:127:A:C5	2.49	0.81
24:BA:150:C:H2'	24:BA:151:C:C6	2.16	0.81
24:BA:1798:U:H5'	27:BD:257:LEU:HD12	1.63	0.81
24:BA:2231:C:H2'	24:BA:2232:U:C6	2.14	0.81
24:BA:2665:A:H5''	24:BA:2665:A:C8	2.16	0.81
24:BA:13:A:N6	24:BA:525:U:C6	2.49	0.81
24:BA:623:G:H2'	24:BA:624:C:H5''	1.60	0.81
24:BA:919:G:H21	24:BA:920:G:H1'	1.45	0.81
24:BA:989:G:O2'	24:BA:990:A:O5'	1.99	0.81
24:BA:1791:A:H5'	27:BD:213:ARG:HG2	1.63	0.81
24:BA:1789:A:C2'	27:BD:213:ARG:HH22	1.90	0.81
24:BA:2620:C:H4'	28:BE:156:MET:HB3	1.63	0.81
29:BF:201:VAL:HA	29:BF:204:ASN:ND2	1.96	0.81
29:BF:34:TRP:O	29:BF:37:VAL:HB	1.80	0.81
24:BA:2415:G:OP1	36:BO:61:ARG:HD2	1.81	0.81
24:BA:1204:A:H61	36:BO:7:ARG:NH1	1.79	0.81
40:BS:110:ILE:HD13	40:BS:113:LYS:HZ3	1.43	0.81
40:BS:2:ASN:OD1	40:BS:3:ARG:N	2.14	0.81
24:BA:566:U:H5'	42:BU:82:ARG:NH1	1.95	0.81
43:BV:72:LYS:HB2	43:BV:108:GLY:N	1.96	0.81
44:BW:65:ARG:HA	44:BW:70:LEU:HG	1.62	0.81
46:BY:95:PRO:CG	46:BY:131:ARG:HG2	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:73:GLU:HA	32:BK:140:LEU:HD21	1.63	0.81
26:BC:42:GLU:OE2	26:BC:174:PRO:HB3	1.81	0.81
55:B8:13:LYS:HA	55:B8:13:LYS:NZ	1.95	0.81
1:AA:754:C:H4'	17:AR:72:ARG:NH2	1.96	0.80
1:AA:982:U:H1'	1:AA:983:A:H62	1.45	0.80
2:AC:74:C:O3'	24:BA:2602:A:OP1	1.99	0.80
4:AE:113:HIS:HA	4:AE:116:GLU:OE1	1.81	0.80
4:AE:188:ALA:HB1	4:AE:192:SER:OG	1.80	0.80
4:AE:25:ASN:ND2	4:AE:25:ASN:C	2.33	0.80
7:AH:56:GLN:NE2	7:AH:56:GLN:H	1.79	0.80
8:AI:14:LEU:HD11	8:AI:19:LEU:N	1.96	0.80
11:AL:112:LYS:CE	11:AL:117:HIS:HA	2.10	0.80
13:AN:78:GLN:O	13:AN:104:GLN:HB3	1.81	0.80
1:AA:761:G:C5'	19:AT:103:GLY:H	1.93	0.80
48:B1:23:LYS:O	48:B1:26:GLU:HB3	1.80	0.80
48:B1:27:LEU:CA	48:B1:30:LEU:HG	2.11	0.80
48:B1:58:VAL:CG2	48:B1:59:LEU:N	2.43	0.80
49:B2:4:LEU:HD22	49:B2:37:LEU:CD1	2.09	0.80
52:B5:16:CYS:CB	52:B5:49:HIS:HA	2.11	0.80
24:BA:1140:C:H4'	24:BA:1142(A):A:C2	2.16	0.80
24:BA:1299:G:H5'	24:BA:1301:A:H1'	1.61	0.80
24:BA:1486:A:O2'	24:BA:1487:G:H5'	1.81	0.80
24:BA:1676:A:H2	24:BA:1993:U:H5'	1.44	0.80
24:BA:190:A:H2'	24:BA:191:A:C8	2.15	0.80
24:BA:2007:C:H4'	24:BA:2824:C:O2'	1.81	0.80
24:BA:2598:A:OP1	27:BD:234:GLY:HA3	1.79	0.80
24:BA:2720:U:O4	24:BA:2873:A:N6	2.12	0.80
24:BA:464:U:O2'	53:B6:12:ARG:NH2	2.14	0.80
24:BA:706:A:H2'	24:BA:707:G:H8	1.43	0.80
24:BA:729:G:C5	24:BA:730:C:C6	2.69	0.80
27:BD:44:ASN:HB2	27:BD:217:ARG:NH2	1.96	0.80
24:BA:1567:A:H5''	27:BD:59:LYS:HE2	1.63	0.80
28:BE:179:GLU:CD	28:BE:179:GLU:H	1.84	0.80
28:BE:200:GLU:HB3	28:BE:202:LYS:HZ3	1.44	0.80
30:BG:103:LEU:HD21	30:BG:176:LEU:HD11	1.61	0.80
30:BG:63:ILE:HD11	30:BG:105:LYS:HZ1	1.45	0.80
34:BM:6:PRO:HA	34:BM:41:ASP:CB	2.09	0.80
24:BA:603:A:H61	36:BO:104:GLY:HA2	1.45	0.80
29:BF:38:ARG:HH12	36:BO:10:PRO:HA	1.47	0.80
36:BO:121:LYS:HB2	36:BO:137:LYS:CG	2.10	0.80
36:BO:64:LYS:C	36:BO:65:ARG:HG3	2.01	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:28:LEU:HD13	38:BQ:29:LEU:N	1.96	0.80
24:BA:2018:G:H1'	41:BT:34:LYS:HZ2	1.46	0.80
42:BU:39:LEU:HD21	42:BU:60:GLU:CG	2.09	0.80
42:BU:34:GLU:HA	42:BU:62:LEU:O	1.81	0.80
46:BY:152:ALA:CA	46:BY:155:LEU:HD13	2.10	0.80
46:BY:42:VAL:HB	46:BY:43:GLU:OE1	1.81	0.80
24:BA:2134:A:C2	24:BA:2135:A:C2	2.69	0.80
26:BC:26:ALA:CB	26:BC:185:LEU:HB2	2.11	0.80
26:BC:76:ALA:HA	26:BC:149:ILE:HD11	1.63	0.80
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.47	0.80
1:AA:949:A:C1'	1:AA:1364:U:H3	1.93	0.80
1:AA:319:G:O2'	1:AA:320:C:H5'	1.79	0.80
1:AA:362:G:H3'	14:AO:34:ARG:NH2	1.95	0.80
1:AA:745:C:H2'	1:AA:746:A:H8	1.44	0.80
1:AA:859:A:O2'	1:AA:860:A:H5'	1.81	0.80
6:AG:107:ARG:HD2	6:AG:174:LEU:HD11	1.61	0.80
7:AH:83:GLU:HG2	7:AH:88:LYS:HE2	1.62	0.80
13:AN:22:HIS:O	13:AN:28:THR:HG23	1.81	0.80
49:B2:4:LEU:HB3	49:B2:37:LEU:CD2	2.11	0.80
24:BA:1072:C:H42	24:BA:1100:C:H42	1.28	0.80
24:BA:1343:G:O6	24:BA:1404:C:N4	2.12	0.80
24:BA:1746:G:H2'	24:BA:1747:G:H8	1.43	0.80
24:BA:1840:G:O2'	24:BA:1841:U:H5'	1.82	0.80
24:BA:1996:C:HO2'	28:BE:123:ALA:HB3	1.46	0.80
24:BA:2213:U:H5'	24:BA:2215:G:C6	2.15	0.80
24:BA:2309:A:H5''	24:BA:2310:A:N7	1.96	0.80
24:BA:2522:U:H6	24:BA:2522:U:H5'	1.45	0.80
24:BA:2636:U:H4'	28:BE:79:ARG:NH2	1.95	0.80
24:BA:2681:C:H42	24:BA:2725:A:H62	1.29	0.80
24:BA:281:G:H1'	24:BA:427:U:O2	1.81	0.80
24:BA:648:G:H2'	24:BA:649:G:C8	2.14	0.80
24:BA:788:A:H4'	24:BA:789:A:O5'	1.81	0.80
24:BA:995:C:H1'	41:BT:57:PHE:CZ	2.16	0.80
25:BB:46:A:H2'	25:BB:47:C:H6	1.45	0.80
27:BD:151:LYS:HB2	27:BD:154:LYS:HZ3	1.45	0.80
27:BD:182:LEU:H	27:BD:270:ILE:HG13	1.44	0.80
28:BE:151:TYR:CG	28:BE:152:LYS:N	2.47	0.80
28:BE:98:PRO:HA	28:BE:172:VAL:CG2	2.11	0.80
24:BA:2636:U:H4'	28:BE:79:ARG:HH21	1.45	0.80
33:BL:55:VAL:HG22	33:BL:69:THR:HA	1.60	0.80
24:BA:558:G:P	34:BM:112:LEU:HG	2.22	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:127:ASP:N	34:BM:129:PRO:HD2	1.95	0.80
35:BN:43:VAL:CG1	35:BN:54:GLU:HA	2.12	0.80
37:BP:102:VAL:HG13	37:BP:104:PHE:CE1	2.16	0.80
39:BR:78:LEU:O	39:BR:78:LEU:HD22	1.79	0.80
40:BS:82:LEU:HD22	40:BS:84:GLN:H	1.46	0.80
41:BT:102:GLU:O	41:BT:105:VAL:CG1	2.27	0.80
43:BV:42:ARG:HG3	43:BV:43:GLY:N	1.94	0.80
32:BK:103:ARG:NH2	32:BK:104:GLN:HA	1.96	0.80
24:BA:2111:C:H6	24:BA:2111:C:OP2	1.62	0.80
18:AS:46:PRO:HG2	18:AS:47:ASP:H	1.45	0.80
1:AA:236:G:H3'	1:AA:237:C:H6	1.46	0.80
1:AA:484:G:H5'	1:AA:486:U:H1'	1.63	0.80
1:AA:545:C:O2'	1:AA:546:G:H5'	1.82	0.80
1:AA:674:G:H2'	1:AA:675:A:C8	2.16	0.80
1:AA:676:A:H2'	1:AA:677:U:C6	2.16	0.80
1:AA:766:A:N7	1:AA:814:A:C6	2.50	0.80
4:AE:137:ARG:O	4:AE:141:GLU:HB2	1.81	0.80
4:AE:168:THR:HG23	4:AE:193:ASP:OD1	1.81	0.80
6:AG:25:ARG:C	6:AG:27:TYR:H	1.85	0.80
10:AK:6:ILE:HG23	10:AK:7:ALA:N	1.96	0.80
20:AU:63:GLN:HA	20:AU:66:LEU:HD21	1.64	0.80
22:AW:36:LEU:HD21	22:AW:55:ILE:HG22	1.62	0.80
49:B2:6:VAL:HG11	49:B2:54:VAL:CG1	2.11	0.80
53:B6:34:ARG:HB3	53:B6:34:ARG:NH1	1.96	0.80
53:B6:1:MET:CB	53:B6:3:ARG:HH11	1.92	0.80
24:BA:1212:G:H1'	24:BA:1237:A:N6	1.95	0.80
24:BA:1249:U:O4	36:BO:21:ARG:NH1	2.14	0.80
24:BA:1264:G:N7	24:BA:1265:A:C4	2.49	0.80
24:BA:128:C:H2'	24:BA:129:C:C6	2.16	0.80
24:BA:1343:G:N1	24:BA:1404:C:N3	2.28	0.80
24:BA:1423:G:H2'	24:BA:1424:G:C8	2.11	0.80
24:BA:1613:G:H3'	24:BA:1614:A:H5'	1.61	0.80
24:BA:1788:C:N4	24:BA:1789:A:C8	2.49	0.80
24:BA:1798:U:C5'	27:BD:257:LEU:HB2	2.11	0.80
24:BA:2092:U:C5	24:BA:2227:A:N6	2.50	0.80
24:BA:2212:A:H2'	24:BA:2213:U:O4	1.82	0.80
24:BA:270(K):C:H3'	24:BA:270(L):U:C6	2.10	0.80
24:BA:2725:A:H2'	24:BA:2726:U:H3'	1.63	0.80
24:BA:332:A:O2'	24:BA:334:C:OP2	1.99	0.80
24:BA:371:A:O2'	24:BA:372:G:OP1	1.98	0.80
24:BA:585:G:O2'	24:BA:586:A:C8	2.34	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:72:U:H5'	44:BW:5:TYR:OH	1.81	0.80
27:BD:5:LYS:CE	27:BD:81:ALA:HB1	2.06	0.80
28:BE:27:LEU:HD11	28:BE:30:PRO:HD3	1.64	0.80
33:BL:33:ASN:H	33:BL:37:PHE:HD1	1.25	0.80
35:BN:64:ARG:HA	35:BN:81:ASP:OD2	1.82	0.80
36:BO:47:ASP:CB	36:BO:48:PRO:HD3	2.11	0.80
39:BR:13:ARG:CZ	39:BR:90:GLY:HA3	2.12	0.80
39:BR:39:ILE:C	39:BR:40:ILE:HD12	2.01	0.80
42:BU:12:TYR:HE1	42:BU:14:VAL:HB	1.45	0.80
42:BU:83:ARG:HH21	42:BU:85:LYS:CE	1.94	0.80
45:BX:47:LYS:NZ	45:BX:51:VAL:HG21	1.96	0.80
45:BX:95:LYS:HG3	45:BX:103:GLY:CA	2.11	0.80
32:BK:77:LEU:HG	32:BK:141:LYS:C	2.02	0.80
26:BC:192:PHE:HE1	26:BC:196:LEU:HD13	1.46	0.80
26:BC:58:VAL:HG11	26:BC:199:HIS:HB3	1.62	0.80
1:AA:309:G:O2'	1:AA:310:G:H5'	1.82	0.80
4:AE:106:LYS:O	4:AE:109:SER:HB2	1.80	0.80
7:AH:12:LEU:HD21	7:AH:14:ARG:HB3	1.62	0.80
7:AH:15:ARG:HA	7:AH:28:PHE:HB3	1.63	0.80
19:AT:6:LEU:HD22	19:AT:23:VAL:HG21	1.63	0.80
19:AT:3:LYS:O	19:AT:4:LYS:O	2.00	0.80
21:AV:15:LEU:HD21	21:AV:38:SER:HB3	1.64	0.80
50:B3:66:SER:HA	50:B3:69:LYS:HD2	1.63	0.80
51:B4:48:GLU:HA	51:B4:58:LEU:CG	2.10	0.80
52:B5:19:ARG:HG3	52:B5:44:ARG:HH12	1.45	0.80
24:BA:139:G:H2'	24:BA:140:A:O5'	1.80	0.80
24:BA:1667:G:N2	24:BA:1991:U:C4	2.49	0.80
24:BA:1851:U:H2'	24:BA:1852:C:C6	2.17	0.80
24:BA:1912:A:N7	24:BA:1918:A:N6	2.28	0.80
24:BA:567:A:C2	24:BA:568:U:H1'	2.16	0.80
24:BA:578:A:H2'	24:BA:2018:G:H5'	1.63	0.80
24:BA:84:A:H5''	45:BX:8:LYS:HG3	1.64	0.80
24:BA:930:U:O2	24:BA:932:G:C2	2.34	0.80
28:BE:26:ILE:HB	28:BE:181:LEU:HD21	1.60	0.80
30:BG:151:ALA:C	30:BG:152:LEU:HD23	2.02	0.80
31:BH:164:TYR:HD2	31:BH:166:GLY:H	1.27	0.80
31:BH:29:PRO:HD3	31:BH:79:VAL:CA	2.12	0.80
34:BM:16:ILE:CD1	34:BM:52:VAL:HG23	2.11	0.80
34:BM:55:VAL:CG1	34:BM:56:ASN:N	2.45	0.80
36:BO:96:THR:HB	36:BO:99:LEU:CD1	2.10	0.80
37:BP:68:ILE:HG23	37:BP:95:ALA:HB1	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:115:ARG:O	40:BS:117:ASP:N	2.14	0.80
41:BT:100:VAL:HG23	41:BT:101:ARG:N	1.95	0.80
24:BA:993:G:H1'	42:BU:91:TYR:CE2	2.17	0.80
46:BY:78:LYS:H	46:BY:78:LYS:HE2	1.45	0.80
1:AA:962:C:O2'	1:AA:1200:C:H5	1.64	0.80
1:AA:752:G:OP2	1:AA:752:G:C8	2.34	0.80
1:AA:991:U:HO2'	1:AA:993:G:H8	1.29	0.80
6:AG:144:ASP:O	6:AG:184:LYS:HA	1.82	0.80
6:AG:58:LEU:O	6:AG:58:LEU:HD22	1.82	0.80
10:AK:21:LYS:HA	10:AK:21:LYS:HE2	1.63	0.80
15:AP:14:ARG:HA	15:AP:44:ARG:HA	1.63	0.80
15:AP:91:ARG:HB3	15:AP:98:VAL:HG13	1.63	0.80
21:AV:36:ARG:HA	21:AV:71:LEU:CD1	2.10	0.80
24:BA:1288:U:H5''	24:BA:1289:C:OP2	1.81	0.80
24:BA:1444(A):A:C8	24:BA:1460:A:H2'	2.16	0.80
24:BA:1940:U:H5''	24:BA:1941:C:C5'	2.11	0.80
24:BA:33:U:O2'	24:BA:34:C:H5	1.64	0.80
24:BA:945:A:C2'	24:BA:945:A:N3	2.44	0.80
24:BA:957:A:O3'	24:BA:958:U:H4'	1.79	0.80
24:BA:1799:G:H22	27:BD:157:ARG:NH2	1.80	0.80
28:BE:198:VAL:HG12	28:BE:200:GLU:OE2	1.82	0.80
28:BE:5:LEU:HB2	28:BE:26:ILE:O	1.79	0.80
35:BN:10:VAL:N	35:BN:17:ARG:HG2	1.95	0.80
35:BN:79:PHE:CB	40:BS:73:GLU:HG3	2.11	0.80
38:BQ:32:GLY:HA2	38:BQ:116:LEU:HG	1.63	0.80
38:BQ:86:ARG:HH11	38:BQ:86:ARG:HB3	1.46	0.80
24:BA:2334:G:H21	39:BR:11:LYS:CE	1.94	0.80
45:BX:84:ARG:HG2	45:BX:86:ARG:N	1.96	0.80
24:BA:2161:C:H2'	24:BA:2162:G:H8	1.45	0.80
1:AA:1035:A:C2'	1:AA:1036:G:H5'	2.11	0.80
24:BA:2246:G:N2	24:BA:2247:A:C5	2.50	0.80
1:AA:1124:G:H1	1:AA:1147:C:N4	1.80	0.80
1:AA:1346:A:H4'	1:AA:1347:G:O5'	1.82	0.80
1:AA:782:A:C6	1:AA:801:U:C2	2.69	0.80
1:AA:791:G:H22	1:AA:1498:U:P	2.04	0.80
4:AE:15:VAL:HG23	4:AE:16:HIS:CE1	2.16	0.80
5:AF:91:LEU:HD11	5:AF:99:VAL:N	1.97	0.80
7:AH:78:HIS:CG	10:AK:107:LEU:HD11	2.16	0.80
13:AN:84:VAL:CG2	13:AN:110:ASP:HA	2.12	0.80
15:AP:32:GLU:HB2	15:AP:64:TRP:HH2	1.47	0.80
16:AQ:22:THR:HB	16:AQ:33:VAL:CG2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:16:LEU:CD2	48:B1:59:LEU:HB2	2.10	0.80
50:B3:18:CYS:N	50:B3:33:VAL:HB	1.96	0.80
55:B8:10:ILE:O	55:B8:12:ASP:N	2.13	0.80
55:B8:19:ARG:HD2	55:B8:24:TYR:CG	2.16	0.80
24:BA:1937:A:N6	24:BA:1939:U:H5	1.76	0.80
24:BA:2620:C:H4'	28:BE:156:MET:CB	2.12	0.80
24:BA:294:A:H2'	24:BA:295:G:H5'	1.62	0.80
24:BA:307:G:N2	24:BA:310:A:H8	1.79	0.80
24:BA:371:A:H5''	24:BA:423:A:N7	1.97	0.80
24:BA:503:A:H8	24:BA:503:A:O5'	1.65	0.80
24:BA:853:G:H2'	24:BA:854:G:C8	2.15	0.80
24:BA:928:G:H2'	24:BA:929:G:H5'	1.61	0.80
28:BE:154:LYS:NZ	28:BE:155:LYS:O	2.14	0.80
29:BF:6:VAL:H	29:BF:20:LEU:CD1	1.91	0.80
35:BN:66:LYS:HE3	35:BN:67:LYS:HZ1	1.43	0.80
36:BO:120:ALA:C	36:BO:122:PRO:HD2	2.02	0.80
36:BO:123:LEU:HG	36:BO:134:ALA:HB1	1.63	0.80
40:BS:72:VAL:HG12	40:BS:73:GLU:N	1.96	0.80
42:BU:67:GLY:HA2	42:BU:93:GLU:O	1.81	0.80
45:BX:32:PRO:HB2	45:BX:34:LYS:HG3	1.64	0.80
45:BX:65:ALA:HB3	45:BX:66:PRO:HD3	1.63	0.80
46:BY:35:ARG:HG2	46:BY:36:LYS:N	1.95	0.80
46:BY:51:ALA:C	46:BY:53:ILE:N	2.32	0.80
47:BZ:38:VAL:HB	47:BZ:45:PHE:CE1	2.17	0.80
3:AD:50:G:H2'	3:AD:51:C:H6	1.46	0.80
24:BA:2132:U:O2	24:BA:2133:G:H5''	1.82	0.80
1:AA:1004:A:H3'	1:AA:1025:U:N3	1.95	0.80
1:AA:18:C:H1'	1:AA:1079:G:N2	1.96	0.80
1:AA:1157:A:C8	1:AA:1181:G:N2	2.48	0.80
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.16	0.80
1:AA:953:G:N7	15:AP:104:ARG:NH2	2.30	0.80
5:AF:122:GLU:HA	5:AF:125:GLU:CG	2.11	0.80
8:AI:89:MET:HE3	20:AU:75:ILE:HG21	1.64	0.80
9:AJ:38:LEU:HA	9:AJ:41:ARG:CG	2.11	0.80
9:AJ:46:ALA:CA	9:AJ:49:ILE:HD12	2.06	0.80
10:AK:1:MET:HG2	10:AK:2:LEU:N	1.96	0.80
11:AL:5:TYR:OH	11:AL:16:ARG:HG3	1.82	0.80
11:AL:63:ILE:N	11:AL:63:ILE:HD12	1.97	0.80
1:AA:1151:A:H1'	12:AM:39:PRO:HB2	1.62	0.80
15:AP:51:ALA:O	15:AP:54:VAL:HB	1.81	0.80
20:AU:36:ASN:HA	20:AU:38:GLU:OE2	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:6:ARG:HB3	23:AX:15:ARG:NH2	1.97	0.80
24:BA:87:C:C1'	48:B1:46:ARG:HH22	1.93	0.80
51:B4:10:LYS:C	51:B4:12:SER:N	2.34	0.80
24:BA:1024:G:N2	24:BA:1139:G:H1	1.78	0.80
24:BA:1651:G:H2'	24:BA:1652:A:C8	2.16	0.80
24:BA:1668:A:N6	24:BA:1993:U:H1'	1.97	0.80
24:BA:1863:G:H2'	24:BA:1864:U:H6	1.43	0.80
24:BA:1667:G:O6	24:BA:1992:G:OP2	2.00	0.80
24:BA:2748:A:N3	31:BH:67:LEU:CD2	2.45	0.80
24:BA:2893:G:H4'	24:BA:2894:G:O4'	1.81	0.80
24:BA:295:G:H2'	24:BA:296:C:H5'	1.63	0.80
24:BA:67:U:H2'	24:BA:68:G:C8	2.16	0.80
24:BA:906:G:N3	24:BA:906:G:H2'	1.95	0.80
27:BD:208:LYS:NZ	27:BD:211:ARG:NE	2.28	0.80
28:BE:146:THR:HB	28:BE:147:PRO:CD	2.11	0.80
33:BL:99:ILE:CG2	33:BL:100:THR:H	1.95	0.80
34:BM:18:ALA:HB2	34:BM:54:VAL:HG23	1.63	0.80
34:BM:33:LEU:HD22	34:BM:33:LEU:O	1.82	0.80
35:BN:11:ALA:CB	35:BN:97:ARG:NE	2.44	0.80
37:BP:44:ALA:CA	37:BP:47:ILE:HD12	2.11	0.80
40:BS:104:ASN:HA	40:BS:108:ARG:HH21	1.46	0.80
40:BS:21:GLU:O	40:BS:23:ARG:CG	2.23	0.80
45:BX:49:VAL:N	45:BX:56:PRO:HG3	1.97	0.80
45:BX:81:LYS:CG	45:BX:96:ILE:HG23	2.12	0.80
47:BZ:53:MET:HE3	47:BZ:57:PHE:HA	1.64	0.80
24:BA:2138:C:H2'	24:BA:2139:C:C6	2.17	0.80
26:BC:8:ARG:HD2	26:BC:11:LEU:HD23	1.62	0.80
26:BC:131:LEU:CB	26:BC:136:LEU:HB2	2.11	0.80
26:BC:117:PRO:HD3	26:BC:146:GLY:O	1.82	0.80
26:BC:182:PRO:HG2	26:BC:183:GLU:OE2	1.81	0.80
1:AA:272:C:H2'	1:AA:273:A:C8	2.17	0.80
1:AA:301:G:N2	1:AA:302:G:C4	2.50	0.80
1:AA:468:A:O3'	18:AS:81:ARG:HA	1.82	0.80
1:AA:764:C:H2'	1:AA:765:G:C8	2.16	0.80
1:AA:821:G:H2'	1:AA:822:C:C6	2.17	0.80
5:AF:3:ASN:CG	5:AF:4:LYS:N	2.31	0.80
6:AG:106:TYR:HA	6:AG:111:ALA:HB3	1.64	0.80
10:AK:53:VAL:HG23	10:AK:58:TYR:HB2	1.63	0.80
15:AP:88:ARG:HG2	15:AP:98:VAL:HG12	1.61	0.80
18:AS:67:THR:HB	18:AS:70:ALA:HB2	1.64	0.80
21:AV:62:ILE:HD11	21:AV:67:VAL:CA	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:19:ARG:O	52:B5:43:CYS:SG	2.39	0.80
54:B7:4:MET:HE1	54:B7:62:LEU:HG	1.63	0.80
24:BA:1131:G:OP1	34:BM:79:PRO:HD3	1.82	0.80
24:BA:125:G:N2	53:B6:10:ARG:HA	1.96	0.80
24:BA:1517:G:H2'	24:BA:1518:C:O4'	1.80	0.80
24:BA:1625:C:C2'	24:BA:1626:G:H4'	2.08	0.80
24:BA:1773:A:C6	24:BA:1829:A:H1'	2.15	0.80
24:BA:414:C:H1'	24:BA:1864:U:H1'	1.62	0.80
24:BA:2287:A:N7	24:BA:2289:G:C5	2.50	0.80
24:BA:24:G:H2'	24:BA:25:U:C6	2.17	0.80
24:BA:2627:G:H2'	24:BA:2628:C:C5'	2.12	0.80
24:BA:2900:A:H2'	24:BA:2901:C:H6	1.43	0.80
24:BA:449:A:H2'	24:BA:450:G:O4'	1.81	0.80
24:BA:457:A:H1'	24:BA:459:U:N3	1.97	0.80
24:BA:594:U:C4	24:BA:595:C:N4	2.50	0.80
24:BA:675:A:N7	24:BA:804:A:C2	2.50	0.80
24:BA:687:C:H1'	24:BA:788:A:C5'	2.10	0.80
27:BD:80:ALA:CB	27:BD:94:LEU:O	2.29	0.80
29:BF:106:ARG:HG3	29:BF:107:LYS:H	1.45	0.80
29:BF:165:ARG:HB2	29:BF:165:ARG:NH2	1.96	0.80
29:BF:169:ASN:HD22	29:BF:173:VAL:HG12	1.45	0.80
30:BG:32:PRO:HB3	30:BG:163:ALA:HA	1.63	0.80
30:BG:167:GLU:O	30:BG:170:ARG:HB3	1.81	0.80
34:BM:13:TRP:NE1	34:BM:51:PHE:HB3	1.97	0.80
35:BN:2:ILE:O	35:BN:3:GLN:HG3	1.82	0.80
36:BO:135:LEU:H	36:BO:135:LEU:CD1	1.94	0.80
37:BP:85:LYS:HG3	37:BP:86:GLY:H	1.45	0.80
24:BA:997:G:OP1	41:BT:93:LYS:HE2	1.82	0.80
24:BA:2341:G:H2'	24:BA:2342:C:C6	2.17	0.80
1:AA:1181:G:N7	1:AA:1182:G:N3	2.29	0.80
1:AA:1198:G:H2'	1:AA:1199:U:O4'	1.81	0.80
1:AA:714:G:H1'	1:AA:777:A:N7	1.96	0.80
1:AA:932:C:H3'	9:AJ:3:ARG:HG3	1.63	0.80
1:AA:979:C:H2'	1:AA:980:C:C5'	2.11	0.80
4:AE:215:LEU:O	4:AE:218:ALA:HB3	1.81	0.80
3:AD:41:G:O4'	9:AJ:144:MET:SD	2.40	0.80
10:AK:122:ARG:CD	10:AK:123:GLU:H	1.95	0.80
10:AK:29:SER:O	10:AK:32:LYS:NZ	2.15	0.80
10:AK:88:LYS:HB2	10:AK:88:LYS:NZ	1.97	0.80
1:AA:1250:A:OP1	11:AL:66:ARG:HD2	1.82	0.80
12:AM:6:ILE:CD1	12:AM:72:VAL:HB	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:41:ARG:HG2	14:AO:42:THR:N	1.96	0.80
21:AV:22:LEU:HD23	21:AV:22:LEU:O	1.82	0.80
52:B5:33:LYS:NZ	52:B5:34:LEU:HD23	1.97	0.80
52:B5:31:PRO:HB3	52:B5:34:LEU:HD12	1.62	0.80
24:BA:1061:U:O2'	24:BA:1070:A:H1'	1.81	0.80
24:BA:1970:A:C2'	24:BA:1971:A:OP2	2.29	0.80
24:BA:640:C:H2'	24:BA:641:C:C5'	2.11	0.80
24:BA:754:C:O2'	24:BA:755:C:H5'	1.82	0.80
24:BA:814:C:H4'	24:BA:1224:G:N2	1.96	0.80
24:BA:959:A:C6	24:BA:960:A:N6	2.50	0.80
24:BA:1501:C:O4'	27:BD:100:GLY:HA2	1.80	0.80
29:BF:125:LEU:HD22	29:BF:127:GLU:O	1.82	0.80
24:BA:1058:G:N2	33:BL:126:MET:HE3	1.97	0.80
37:BP:27:VAL:HG13	37:BP:28:ALA:H	1.47	0.80
42:BU:17:GLY:HA3	42:BU:19:LYS:NZ	1.96	0.80
45:BX:60:PHE:CE2	45:BX:62:GLU:HB2	2.17	0.80
3:AD:62:C:H5''	26:BC:52:ARG:HD3	1.63	0.80
1:AA:994:A:N1	1:AA:1047:G:H4'	1.97	0.80
1:AA:752:G:H8	1:AA:752:G:OP2	1.64	0.80
1:AA:983:A:C2	1:AA:984:C:C6	2.70	0.80
1:AA:989:C:C2'	1:AA:990:C:H5'	2.12	0.80
4:AE:23:ARG:HD3	4:AE:24:TRP:H	1.46	0.80
4:AE:60:ASP:O	4:AE:63:MET:HB3	1.82	0.80
7:AH:141:GLN:HG3	7:AH:143:ARG:HH21	1.45	0.80
7:AH:61:TYR:HA	7:AH:64:ARG:HG2	1.63	0.80
8:AI:35:ALA:O	8:AI:36:ARG:HB2	1.81	0.80
8:AI:73:ASN:O	8:AI:76:ALA:HB3	1.82	0.80
13:AN:42:TRP:H	13:AN:71:LYS:HE2	1.45	0.80
14:AO:35:GLY:O	14:AO:82:VAL:HG13	1.82	0.80
19:AT:51:TYR:CZ	19:AT:73:VAL:HG11	2.17	0.80
49:B2:3:ARG:HH12	49:B2:59:VAL:CB	1.94	0.80
50:B3:27:THR:HG22	50:B3:28:LYS:N	1.95	0.80
53:B6:24:THR:HG23	53:B6:27:GLY:HA3	1.64	0.80
24:BA:1014:U:H2'	24:BA:1015:G:H5'	1.61	0.80
24:BA:1143:A:O2'	24:BA:1144:G:O5'	1.99	0.80
24:BA:1857:G:C8	24:BA:1858:G:N7	2.50	0.80
24:BA:248:G:H21	24:BA:2431:U:C4'	1.95	0.80
24:BA:2447:G:C2	24:BA:2500:U:C4	2.70	0.80
24:BA:722:A:H2'	24:BA:723:G:C8	2.17	0.80
24:BA:827:U:H4'	24:BA:828:U:O2	1.82	0.80
24:BA:878:A:H1'	24:BA:879:G:N7	1.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:15:A:H5''	25:BB:16:G:OP2	1.81	0.80
28:BE:53:PRO:HG3	28:BE:75:VAL:CG2	2.12	0.80
29:BF:110:LEU:O	29:BF:114:VAL:HG23	1.82	0.80
30:BG:101:ILE:O	30:BG:104:GLU:HB3	1.82	0.80
30:BG:8:LYS:HE3	30:BG:12:TYR:HB3	1.62	0.80
37:BP:26:TYR:HD1	37:BP:27:VAL:N	1.75	0.80
38:BQ:38:VAL:HG23	38:BQ:110:PRO:O	1.82	0.80
41:BT:50:ARG:HA	41:BT:53:ARG:NH1	1.97	0.80
44:BW:18:TYR:HA	44:BW:21:PHE:CD1	2.17	0.80
24:BA:2160:G:H2'	24:BA:2161:C:H6	1.45	0.80
26:BC:22:ILE:HG21	26:BC:190:ARG:CZ	2.12	0.80
1:AA:1181:G:O3'	1:AA:1184:G:H5'	1.82	0.79
1:AA:1239:A:H4'	1:AA:1240:U:H5''	1.63	0.79
2:AC:69:C:H2'	2:AC:70:G:H8	1.46	0.79
2:AC:73:A:O2'	2:AC:74:C:OP2	2.00	0.79
1:AA:7:G:H21	7:AH:121:LYS:HG3	1.46	0.79
11:AL:2:GLU:HA	11:AL:21:PRO:HD2	1.65	0.79
14:AO:41:ARG:CB	14:AO:41:ARG:NH1	2.45	0.79
18:AS:26:ARG:HH21	18:AS:31:LYS:HE3	1.47	0.79
19:AT:10:VAL:HG23	19:AT:55:ASP:O	1.81	0.79
53:B6:42:LEU:HB3	53:B6:44:PRO:HG2	1.65	0.79
24:BA:1093:G:H21	24:BA:1098:A:H62	1.30	0.79
24:BA:140:A:H61	24:BA:1596:A:H4'	1.47	0.79
24:BA:1534:G:H21	24:BA:1537:C:N4	1.80	0.79
24:BA:2089:U:H2'	24:BA:2090:G:C8	2.17	0.79
24:BA:2784:C:H2'	24:BA:2785:C:H6	1.44	0.79
24:BA:944:G:H5''	24:BA:945:A:H5''	1.63	0.79
28:BE:197:ILE:HD13	28:BE:199:ARG:HH22	1.47	0.79
28:BE:2:LYS:HE2	28:BE:83:ASP:HB3	1.64	0.79
29:BF:9:ILE:HG12	29:BF:124:LEU:CB	2.05	0.79
31:BH:90:LYS:HB3	31:BH:90:LYS:NZ	1.96	0.79
37:BP:111:GLU:CB	37:BP:113:GLN:HG3	2.12	0.79
37:BP:56:ARG:CZ	37:BP:57:HIS:HA	2.12	0.79
39:BR:70:GLY:HA2	39:BR:73:LEU:HD22	1.64	0.79
40:BS:111:ARG:HH11	40:BS:111:ARG:N	1.80	0.79
42:BU:28:GLU:CG	42:BU:94:LEU:HB2	2.12	0.79
44:BW:43:VAL:HG12	44:BW:49:VAL:HG21	1.62	0.79
46:BY:4:ARG:O	46:BY:5:LEU:HD23	1.81	0.79
47:BZ:47:PRO:HA	47:BZ:51:VAL:CG1	2.13	0.79
24:BA:2126:A:C4	24:BA:2163:C:H4'	2.17	0.79
26:BC:200:LYS:HG3	26:BC:208:PHE:CE2	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1144:G:N2	1:AA:1146:A:H62	1.78	0.79
1:AA:1055:A:N6	1:AA:1206:G:C8	2.50	0.79
1:AA:577:G:H21	1:AA:578:C:H1'	1.47	0.79
1:AA:620:C:O2'	1:AA:621:A:H5'	1.82	0.79
1:AA:664:G:P	20:AU:64:ARG:HH21	2.05	0.79
1:AA:692:U:H1'	1:AA:694:A:N7	1.96	0.79
1:AA:864:A:H2	1:AA:917:G:N3	1.79	0.79
1:AA:971:G:H5''	1:AA:972:C:H5''	1.64	0.79
4:AE:178:ARG:CD	4:AE:196:LEU:HD13	2.11	0.79
5:AF:59:ARG:CZ	5:AF:59:ARG:HB2	2.11	0.79
8:AI:13:ASN:N	8:AI:13:ASN:HD22	1.79	0.79
10:AK:126:LYS:HZ1	10:AK:127:LEU:HB2	1.46	0.79
14:AO:82:VAL:O	14:AO:106:ASP:HB2	1.81	0.79
16:AQ:26:ARG:HB3	16:AQ:43:CYS:HB3	1.63	0.79
1:AA:393:A:OP2	18:AS:12:LYS:HE3	1.82	0.79
13:AN:84:VAL:HG11	20:AU:88:LYS:HD3	1.63	0.79
48:B1:25:ARG:O	48:B1:28:MET:HB3	1.81	0.79
48:B1:61:GLU:O	48:B1:64:ARG:HB2	1.81	0.79
24:BA:2467:C:OP1	55:B8:8:LYS:NZ	2.15	0.79
24:BA:1325:G:OP2	24:BA:1616:A:C8	2.35	0.79
24:BA:1655:A:H2'	24:BA:1656:C:C6	2.17	0.79
24:BA:1762:A:C8	24:BA:1762:A:H3'	2.17	0.79
24:BA:2047:U:H2'	24:BA:2048:G:C8	2.17	0.79
24:BA:2334:G:C2	39:BR:15:ARG:NH1	2.50	0.79
24:BA:220:G:H4'	24:BA:234:C:C4'	2.12	0.79
24:BA:272:G:O2'	24:BA:273:G:H5'	1.81	0.79
24:BA:281:G:N2	24:BA:283:A:H5''	1.98	0.79
24:BA:2821:A:H2'	24:BA:2822:G:O4'	1.82	0.79
24:BA:411:G:N2	24:BA:2408:U:H3	1.79	0.79
24:BA:747:U:H2'	24:BA:747:U:O2	1.81	0.79
28:BE:93:VAL:O	28:BE:95:ILE:N	2.11	0.79
24:BA:1257:C:H4'	29:BF:83:PHE:HD1	1.46	0.79
35:BN:71:ARG:HG3	35:BN:72:PRO:CD	2.13	0.79
36:BO:32:THR:OG1	36:BO:35:HIS:NE2	2.14	0.79
37:BP:37:LEU:H	37:BP:129:THR:HG22	1.45	0.79
39:BR:49:VAL:HG21	39:BR:80:LEU:CD1	2.12	0.79
24:BA:2876:G:H5'	40:BS:1:MET:N	1.97	0.79
42:BU:88:ARG:HB3	42:BU:88:ARG:NH1	1.98	0.79
32:BK:68:LEU:HD21	32:BK:107:VAL:CG2	2.12	0.79
3:AD:19:G:N3	3:AD:57:G:H1'	1.95	0.79
1:AA:161:A:H2'	1:AA:162:A:O4'	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1137:C:H4'	1:AA:1138:G:N2	1.98	0.79
1:AA:297:G:N2	1:AA:299:G:H3'	1.98	0.79
4:AE:101:MET:HB2	4:AE:102:LEU:HD12	1.62	0.79
4:AE:82:ARG:HA	4:AE:92:TYR:HE1	1.47	0.79
8:AI:99:ALA:HB2	20:AU:31:LEU:HD11	1.64	0.79
1:AA:1348:U:H4'	11:AL:120:ARG:NH1	1.97	0.79
19:AT:62:SER:OG	19:AT:72:ARG:HG2	1.82	0.79
24:BA:242:G:H5''	54:B7:62:LEU:HD11	1.62	0.79
24:BA:1424:G:H5'	24:BA:1499:C:O2'	1.81	0.79
24:BA:49:A:N6	24:BA:176:G:C5	2.50	0.79
24:BA:1839:G:O6	24:BA:1927:A:C2	2.36	0.79
24:BA:2077:A:H1'	24:BA:2435:A:C1'	2.13	0.79
24:BA:830:G:C5	24:BA:2448:A:C8	2.70	0.79
24:BA:476:G:H22	24:BA:478:A:C3'	1.94	0.79
24:BA:632:A:C2'	24:BA:633:A:H8	1.86	0.79
27:BD:180:GLY:O	27:BD:270:ILE:HG21	1.82	0.79
24:BA:1791:A:H4'	27:BD:206:LEU:CD2	2.12	0.79
27:BD:8:PRO:HG2	27:BD:26:LYS:H	1.47	0.79
27:BD:7:LYS:HZ2	27:BD:91:ARG:CD	1.95	0.79
28:BE:54:GLN:HE21	28:BE:56:PRO:HD2	1.45	0.79
28:BE:91:VAL:CG2	28:BE:93:VAL:HG13	2.13	0.79
34:BM:12:ARG:CG	34:BM:12:ARG:HH11	1.95	0.79
24:BA:2394:C:OP1	36:BO:57:THR:HA	1.82	0.79
37:BP:25:ASP:HB2	37:BP:101:ARG:HD2	1.63	0.79
24:BA:2876:G:C5'	40:BS:1:MET:H3	1.95	0.79
35:BN:106:LEU:HD22	40:BS:39:ARG:HH22	1.47	0.79
24:BA:1216:G:OP1	41:BT:11:ARG:HD2	1.82	0.79
41:BT:55:ARG:NH1	41:BT:55:ARG:HG2	1.87	0.79
44:BW:54:VAL:HA	44:BW:80:ILE:O	1.82	0.79
46:BY:157:LEU:CD2	46:BY:163:LEU:HG	2.10	0.79
46:BY:15:PRO:HG3	46:BY:38:TYR:OH	1.81	0.79
1:AA:1224:G:H1	1:AA:1362(A):C:H42	1.29	0.79
1:AA:66:G:H4'	1:AA:173:U:C5	2.17	0.79
1:AA:229:U:H2'	1:AA:230:G:H8	1.47	0.79
1:AA:695:A:H2'	1:AA:696:A:O4'	1.83	0.79
2:AC:22:G:H2'	2:AC:23:C:H6	1.48	0.79
6:AG:199:ASN:CG	6:AG:200:GLU:N	2.35	0.79
10:AK:44:PHE:HD1	10:AK:79:VAL:HG12	1.47	0.79
14:AO:60:LEU:HD13	14:AO:60:LEU:N	1.95	0.79
15:AP:15:VAL:HG11	15:AP:39:ILE:CD1	2.12	0.79
48:B1:19:LEU:C	48:B1:19:LEU:HD22	2.02	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:41:PRO:C	50:B3:58:ARG:NH1	2.36	0.79
24:BA:1647:G:OP2	24:BA:1647:G:H3'	1.82	0.79
24:BA:1891:G:H3'	24:BA:1892:C:H6	1.45	0.79
24:BA:1913:A:C2	24:BA:1917:U:C5	2.71	0.79
24:BA:2266:A:H1'	24:BA:2272:U:O4	1.81	0.79
24:BA:2331:G:C2	24:BA:2385:C:N4	2.50	0.79
24:BA:242:G:H3'	54:B7:4:MET:HE3	1.64	0.79
24:BA:2471:C:H2'	24:BA:2472:G:C5'	2.11	0.79
24:BA:270(O):U:H5''	24:BA:270(P):C:C5	2.18	0.79
24:BA:312:G:H2'	24:BA:312:G:N3	1.98	0.79
24:BA:371:A:N7	24:BA:424:G:O4'	2.16	0.79
24:BA:587:C:H4'	24:BA:588:U:OP2	1.81	0.79
24:BA:907:U:OP1	37:BP:26:TYR:HE1	1.65	0.79
27:BD:217:ARG:HE	27:BD:218:ARG:HD3	1.46	0.79
24:BA:2572:A:H3'	28:BE:144:ARG:NH2	1.98	0.79
29:BF:158:THR:CB	29:BF:195:ASP:HB2	2.12	0.79
29:BF:5:ALA:HB3	29:BF:7:TYR:HE1	1.45	0.79
30:BG:120:LEU:CD2	30:BG:181:ARG:HB2	2.06	0.79
31:BH:149:ARG:NH2	31:BH:164:TYR:HD1	1.80	0.79
31:BH:24:VAL:HG22	31:BH:35:VAL:HG23	1.61	0.79
31:BH:69:ARG:HH21	31:BH:69:ARG:HG3	1.46	0.79
32:BK:39:ALA:O	32:BK:43:ASN:CB	2.27	0.79
34:BM:55:VAL:HG23	34:BM:123:TYR:H	1.48	0.79
35:BN:10:VAL:O	35:BN:11:ALA:HB3	1.83	0.79
39:BR:32:LEU:HA	39:BR:97:ARG:HH12	1.45	0.79
24:BA:2845:G:H5''	40:BS:57:PHE:CB	2.11	0.79
42:BU:61:VAL:CG1	42:BU:62:LEU:N	2.46	0.79
43:BV:76:VAL:HG22	43:BV:102:HIS:O	1.81	0.79
44:BW:85:PRO:CG	44:BW:87:GLN:HE21	1.95	0.79
24:BA:2132:U:C3'	24:BA:2133:G:H5'	2.12	0.79
26:BC:14:VAL:HG21	26:BC:220:PRO:CB	2.11	0.79
24:BA:2177:C:H5''	26:BC:213:TYR:CE2	2.17	0.79
1:AA:748:C:C6	1:AA:748:C:C3'	2.63	0.79
1:AA:121:C:H4'	1:AA:122:G:OP1	1.81	0.79
1:AA:1321:C:C6	1:AA:1321:C:O5'	2.36	0.79
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.16	0.79
1:AA:320:C:O2'	1:AA:321:A:H5'	1.83	0.79
1:AA:828:A:H2'	1:AA:829:G:O4'	1.82	0.79
1:AA:872:A:O2'	1:AA:873:A:H5''	1.83	0.79
4:AE:115:LEU:HD23	4:AE:149:LEU:HD13	1.65	0.79
7:AH:79:GLU:HB3	7:AH:91:LEU:O	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:30:SER:CB	12:AM:81:THR:HA	2.11	0.79
14:AO:84:LEU:O	14:AO:100:ILE:HG22	1.81	0.79
20:AU:18:ARG:NH2	20:AU:21:LYS:HB2	1.96	0.79
48:B1:63:ARG:HA	48:B1:66:ASN:HB3	1.64	0.79
24:BA:2286:A:N7	52:B5:31:PRO:HB2	1.96	0.79
54:B7:44:LYS:HG3	54:B7:44:LYS:O	1.81	0.79
24:BA:1029:A:O5'	24:BA:1029:A:H8	1.66	0.79
24:BA:1555:G:H2'	24:BA:1556:C:H6	1.47	0.79
24:BA:1602:U:H2'	24:BA:1603:A:C5'	2.12	0.79
24:BA:1913:A:C2	24:BA:1917:U:H5	2.00	0.79
24:BA:2547:U:C2'	24:BA:2548:G:H5''	2.13	0.79
24:BA:2576:G:H5''	24:BA:2577:A:OP1	1.82	0.79
24:BA:447:A:H1'	24:BA:449:A:H61	1.47	0.79
24:BA:700:G:N2	24:BA:733:G:H1'	1.98	0.79
24:BA:761:A:N3	24:BA:761:A:H2'	1.96	0.79
24:BA:780:G:H2'	24:BA:782:A:N7	1.98	0.79
27:BD:63:ARG:HD2	27:BD:85:ASP:HB3	1.63	0.79
29:BF:46:ARG:CZ	29:BF:46:ARG:HA	2.11	0.79
24:BA:675:A:C5'	29:BF:67:GLN:HE22	1.94	0.79
30:BG:134:GLY:HA3	30:BG:156:ASP:OD2	1.82	0.79
34:BM:107:LEU:HD12	34:BM:116:LEU:HD22	1.64	0.79
37:BP:51:ARG:HG3	37:BP:52:VAL:N	1.96	0.79
37:BP:8:LYS:NZ	37:BP:93:TYR:HD2	1.79	0.79
38:BQ:37:THR:HG23	38:BQ:40:LYS:HD2	1.62	0.79
39:BR:106:ARG:HD2	39:BR:107:GLU:OE2	1.83	0.79
39:BR:15:ARG:HD3	39:BR:18:ILE:HG12	1.64	0.79
43:BV:25:ARG:HD2	43:BV:74:ALA:N	1.98	0.79
44:BW:88:LYS:HA	44:BW:90:GLU:OE2	1.82	0.79
46:BY:144:LEU:O	46:BY:145:GLU:HG3	1.82	0.79
32:BK:88:ILE:CD1	32:BK:123:LEU:HB2	2.12	0.79
32:BK:81:VAL:CG1	32:BK:88:ILE:HG12	2.13	0.79
26:BC:34:THR:O	26:BC:34:THR:HG22	1.82	0.79
26:BC:78:ALA:HA	26:BC:119:VAL:HG22	1.64	0.79
1:AA:1225:A:H5'	21:AV:78:ARG:HH11	1.44	0.79
1:AA:279:A:H5'	1:AA:280:C:H3'	1.65	0.79
1:AA:49:U:O4	1:AA:362:G:N2	2.16	0.79
1:AA:874:G:H2'	1:AA:875:C:H5'	1.64	0.79
6:AG:57:ARG:HA	6:AG:202:LEU:CD2	2.13	0.79
6:AG:62:GLN:HA	6:AG:62:GLN:HE21	1.46	0.79
9:AJ:38:LEU:CD1	9:AJ:41:ARG:HD3	2.08	0.79
14:AO:100:ILE:H	14:AO:100:ILE:CD1	1.91	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:34:LEU:CG	17:AR:35:ARG:N	2.46	0.79
18:AS:6:LEU:CD2	18:AS:17:TYR:HD2	1.95	0.79
52:B5:19:ARG:HH11	52:B5:19:ARG:HG2	1.47	0.79
24:BA:1466:G:H2'	24:BA:1547:C:H41	1.47	0.79
24:BA:1911:U:O4	24:BA:1913:A:N6	2.16	0.79
24:BA:1924:C:H2'	24:BA:1925:C:C6	2.17	0.79
24:BA:2779:U:C6	24:BA:2779:U:H3'	2.17	0.79
24:BA:2886:G:O2'	51:B4:32:PRO:HD2	1.83	0.79
24:BA:566:U:H5''	42:BU:82:ARG:HH12	1.47	0.79
24:BA:585:G:C6	24:BA:1251:C:C5	2.70	0.79
24:BA:637:A:H2	24:BA:651:G:C4'	1.94	0.79
24:BA:792:G:N7	24:BA:2440:C:H1'	1.97	0.79
25:BB:48:A:OP1	39:BR:92:TYR:CB	2.30	0.79
27:BD:56:GLY:C	27:BD:217:ARG:HH11	1.85	0.79
28:BE:49:LEU:HG	28:BE:74:PRO:HG2	1.65	0.79
29:BF:142:TRP:CA	29:BF:145:GLU:HG2	2.13	0.79
30:BG:170:ARG:HG3	30:BG:171:ALA:N	1.96	0.79
31:BH:51:ARG:HE	31:BH:51:ARG:HA	1.46	0.79
36:BO:93:GLY:CA	36:BO:112:LEU:HD21	2.11	0.79
40:BS:50:ILE:CG1	40:BS:66:VAL:HB	2.12	0.79
24:BA:531:C:H42	41:BT:38:THR:CG2	1.96	0.79
41:BT:50:ARG:NE	42:BU:75:PHE:CE2	2.50	0.79
47:BZ:51:VAL:CG2	47:BZ:80:HIS:HA	2.13	0.79
26:BC:176:GLY:O	26:BC:185:LEU:HD22	1.82	0.79
1:AA:1118:C:H1'	1:AA:1179:A:C8	2.17	0.79
1:AA:1339:A:C2'	1:AA:1340:A:H5'	2.12	0.79
1:AA:32:A:H2'	1:AA:33:A:C8	2.18	0.79
1:AA:409:G:H5''	6:AG:24:GLU:OE1	1.82	0.79
1:AA:567:G:N2	1:AA:568:G:H1'	1.98	0.79
1:AA:745:C:H2'	1:AA:746:A:C8	2.18	0.79
4:AE:80:ILE:HG21	4:AE:211:ILE:CG2	2.12	0.79
8:AI:48:LEU:CB	20:AU:78:LEU:HD23	2.09	0.79
9:AJ:2:ALA:HB2	9:AJ:7:ALA:HB2	1.65	0.79
10:AK:10:LEU:HD13	10:AK:85:ARG:HB2	1.64	0.79
13:AN:110:ASP:HB2	20:AU:88:LYS:HB2	1.65	0.79
22:AW:75:ASN:N	22:AW:75:ASN:HD22	1.74	0.79
50:B3:19:GLY:HA3	50:B3:30:GLU:O	1.82	0.79
24:BA:2395:C:H4'	50:B3:28:LYS:HD3	1.65	0.79
52:B5:11:LEU:CD2	54:B7:35:GLN:HE22	1.96	0.79
24:BA:1048:A:C2	24:BA:1049:C:H1'	2.17	0.79
24:BA:1058:G:H21	33:BL:126:MET:HE3	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1071:G:H2'	24:BA:1072:C:H5'	1.62	0.79
24:BA:1569:A:C2	24:BA:1570:A:C5	2.71	0.79
24:BA:188:G:H2'	24:BA:189:G:O4'	1.83	0.79
24:BA:1943:U:H4'	24:BA:1944:U:C5'	2.13	0.79
24:BA:2031:A:H61	24:BA:2498:C:C1'	1.94	0.79
24:BA:2700:C:H2'	24:BA:2701:C:C5'	2.08	0.79
24:BA:472:A:H2'	24:BA:473:G:C5'	2.12	0.79
24:BA:51:G:H5'	24:BA:52:A:OP1	1.82	0.79
24:BA:604:G:H1'	24:BA:657:U:H1'	1.64	0.79
24:BA:809:G:C5	24:BA:810:U:C5	2.71	0.79
24:BA:861:A:N6	24:BA:917:A:C5	2.50	0.79
24:BA:879:G:N2	24:BA:880:G:C4	2.51	0.79
24:BA:906:G:OP2	37:BP:140:ALA:HB2	1.82	0.79
28:BE:12:THR:HG21	28:BE:19:ARG:NH1	1.97	0.79
28:BE:133:LYS:HZ2	28:BE:137:HIS:HB3	1.46	0.79
30:BG:119:GLY:O	30:BG:120:LEU:HD23	1.83	0.79
34:BM:74:ARG:CD	34:BM:82:LEU:HD13	2.10	0.79
35:BN:64:ARG:NH1	35:BN:68:GLU:H	1.70	0.79
36:BO:76:LYS:NZ	36:BO:96:THR:HG21	1.97	0.79
38:BQ:25:ALA:O	38:BQ:29:LEU:HG	1.82	0.79
41:BT:15:LYS:HZ3	41:BT:18:LEU:HG	1.45	0.79
42:BU:19:LYS:CB	42:BU:21:ARG:NH1	2.43	0.79
46:BY:1:MET:SD	46:BY:2:GLU:N	2.56	0.79
26:BC:14:VAL:CG2	26:BC:220:PRO:HB3	2.11	0.79
31:BH:110:SER:C	31:BH:112:PRO:HD2	2.03	0.79
1:AA:1321:C:C5	1:AA:1322:C:H2'	2.18	0.79
1:AA:790:A:N6	1:AA:791:G:C2	2.50	0.79
4:AE:24:TRP:CH2	4:AE:26:PRO:HA	2.17	0.79
4:AE:61:LEU:HA	4:AE:64:ARG:NH1	1.97	0.79
13:AN:65:ALA:HB1	13:AN:98:LEU:HD23	1.64	0.79
15:AP:91:ARG:CB	15:AP:98:VAL:HG13	2.13	0.79
17:AR:63:ARG:HH12	17:AR:87:ILE:CD1	1.96	0.79
20:AU:44:LEU:HD12	20:AU:45:SER:O	1.82	0.79
13:AN:110:ASP:CB	20:AU:88:LYS:HD2	2.12	0.79
22:AW:11:SER:HA	22:AW:13:LEU:CD1	2.13	0.79
22:AW:72:LEU:HD13	22:AW:77:ALA:CA	2.13	0.79
50:B3:57:GLU:HA	50:B3:61:ARG:CZ	2.11	0.79
50:B3:46:GLN:NE2	50:B3:69:LYS:HE2	1.98	0.79
24:BA:1359:A:O5'	24:BA:1359:A:C8	2.36	0.79
24:BA:1404:C:O2'	24:BA:1405:U:H5'	1.82	0.79
24:BA:1560:G:H2'	24:BA:1561:G:C8	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1636:C:H2'	24:BA:1636:C:O2	1.83	0.79
24:BA:2208:U:H1'	24:BA:2217:G:N1	1.97	0.79
24:BA:2644:G:H1	24:BA:2645:G:H21	1.28	0.79
24:BA:292:C:C3'	24:BA:293:U:N3	2.46	0.79
24:BA:500:G:H1'	24:BA:503:A:N6	1.97	0.79
24:BA:526:A:H5''	24:BA:527:C:OP2	1.83	0.79
24:BA:565:C:H2'	24:BA:565:C:O2	1.82	0.79
27:BD:82:ILE:HD13	27:BD:92:ILE:O	1.83	0.79
28:BE:49:LEU:HD13	28:BE:76:ARG:O	1.81	0.79
29:BF:4:VAL:CG1	29:BF:20:LEU:CG	2.45	0.79
30:BG:131:TYR:CZ	30:BG:157:ILE:O	2.36	0.79
30:BG:148:MET:HG2	30:BG:150:ASP:O	1.82	0.79
30:BG:49:ASP:O	30:BG:53:LEU:CB	2.30	0.79
30:BG:98:ARG:O	30:BG:101:ILE:HG22	1.82	0.79
32:BK:9:LEU:O	32:BK:9:LEU:HD23	1.82	0.79
36:BO:88:LEU:CG	36:BO:124:LYS:HE3	2.07	0.79
24:BA:2278:A:P	37:BP:14:ARG:HG3	2.22	0.79
37:BP:33:GLY:O	37:BP:131:ILE:HG23	1.83	0.79
39:BR:31:SER:HB3	39:BR:34:HIS:CB	2.12	0.79
40:BS:30:VAL:HG22	40:BS:32:TYR:HE2	1.45	0.79
41:BT:102:GLU:O	41:BT:105:VAL:N	2.16	0.79
42:BU:19:LYS:CB	42:BU:21:ARG:HH12	1.95	0.79
1:AA:108:G:N2	1:AA:108:G:OP2	2.15	0.79
1:AA:1494:G:C2	1:AA:1495:U:C5	2.71	0.79
4:AE:70:PHE:HD2	4:AE:163:PHE:HB3	1.47	0.79
7:AH:76:ILE:HG23	7:AH:77:PRO:HD2	1.65	0.79
8:AI:76:ALA:CB	8:AI:80:ARG:NH2	2.45	0.79
9:AJ:145:ALA:O	9:AJ:146:GLU:HB3	1.81	0.79
10:AK:7:ALA:HA	10:AK:10:LEU:HD12	1.64	0.79
1:AA:642:A:N3	10:AK:113:SER:OG	2.16	0.79
17:AR:16:ALA:CB	17:AR:21:ASP:HB3	2.12	0.79
19:AT:59:ILE:HD12	19:AT:60:ILE:N	1.98	0.79
22:AW:51:GLU:HA	22:AW:54:LYS:CE	2.13	0.79
48:B1:51:GLN:HA	48:B1:54:ARG:NE	1.97	0.79
51:B4:40:LYS:CE	51:B4:41:PRO:O	2.31	0.79
52:B5:17:LYS:O	52:B5:19:ARG:HD2	1.83	0.79
24:BA:686:G:N7	53:B6:12:ARG:CD	2.46	0.79
55:B8:17:ILE:CD1	55:B8:26:ILE:HD12	2.13	0.79
24:BA:2081:C:O2'	24:BA:2082:A:H5'	1.82	0.79
24:BA:2244:U:H1'	24:BA:2434:A:C5	2.17	0.79
24:BA:2571:C:HO2'	28:BE:146:THR:HA	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(Z):U:H2'	24:BA:270(Z):U:O2	1.80	0.79
24:BA:1750:G:O2'	24:BA:2860:A:N1	2.16	0.79
24:BA:33:U:HO2'	24:BA:34:C:H5	1.29	0.79
24:BA:35:G:O4'	24:BA:454:A:H1'	1.83	0.79
24:BA:455:C:O2'	24:BA:456:C:H5'	1.82	0.79
24:BA:590:A:H5''	29:BF:95:ARG:HD2	1.64	0.79
24:BA:627:A:C6	24:BA:637:A:H1'	2.18	0.79
24:BA:685:A:O4'	24:BA:688:U:O4	2.00	0.79
24:BA:850:C:O2'	24:BA:851:U:H5'	1.83	0.79
27:BD:260:ARG:O	27:BD:261:LYS:C	2.21	0.79
27:BD:43:ARG:O	27:BD:44:ASN:HB3	1.82	0.79
27:BD:77:ALA:HB1	27:BD:96:HIS:O	1.83	0.79
28:BE:169:ASN:ND2	28:BE:170:LEU:H	1.78	0.79
28:BE:174:ASP:O	28:BE:182:LEU:HG	1.83	0.79
28:BE:33:VAL:HG13	28:BE:48:GLN:HA	1.62	0.79
29:BF:37:VAL:HA	29:BF:184:TYR:CZ	2.17	0.79
30:BG:60:LEU:HG	30:BG:90:LEU:HD21	1.64	0.79
33:BL:75:SER:O	33:BL:79:ARG:HG3	1.83	0.79
34:BM:12:ARG:HH12	34:BM:48:MET:CE	1.96	0.79
34:BM:55:VAL:HG13	34:BM:56:ASN:H	1.48	0.79
35:BN:104:ARG:HA	35:BN:107:ARG:HD2	1.63	0.79
40:BS:23:ARG:NH2	40:BS:90:GLN:N	2.31	0.79
44:BW:79:ALA:O	44:BW:80:ILE:HD13	1.82	0.79
46:BY:109:ALA:N	46:BY:144:LEU:HD12	1.98	0.79
26:BC:75:LEU:HD21	26:BC:77:ILE:HG23	1.65	0.79
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.48	0.79
1:AA:579:G:H2'	1:AA:580:U:H5'	1.64	0.79
1:AA:678:U:H2'	1:AA:679:C:H6	1.47	0.79
1:AA:842:C:H5'	1:AA:848:C:C2	2.17	0.79
1:AA:82:U:H2'	1:AA:85:U:H5	1.47	0.79
1:AA:854:G:H3'	1:AA:871:U:O4	1.83	0.79
4:AE:16:HIS:CE1	4:AE:213:LEU:HD13	2.17	0.79
6:AG:18:LYS:O	6:AG:21:LEU:HD12	1.83	0.79
7:AH:91:LEU:HD11	7:AH:118:ILE:HG21	1.64	0.79
12:AM:44:VAL:HG22	12:AM:66:ARG:HE	1.46	0.79
21:AV:40:ILE:HG12	21:AV:71:LEU:CD2	2.13	0.79
49:B2:4:LEU:HD13	49:B2:37:LEU:HD11	1.63	0.79
24:BA:1023:U:OP2	24:BA:1025:G:N1	2.15	0.79
24:BA:1051:G:H5''	24:BA:1052:C:OP2	1.83	0.79
24:BA:1151:G:H2'	24:BA:1152:C:H6	1.46	0.79
24:BA:1178:C:C2	24:BA:1179:C:C5	2.71	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1359:A:N6	24:BA:1360:A:N7	2.31	0.79
24:BA:1684:C:H2'	24:BA:1685:C:H6	1.43	0.79
24:BA:1814:G:H2'	24:BA:1815:A:C8	2.18	0.79
24:BA:2353:G:H4'	47:BZ:32:ARG:HH12	1.48	0.79
24:BA:2523:G:C1'	24:BA:2765:A:N7	2.45	0.79
24:BA:2589:A:O2'	24:BA:2590:A:H5'	1.83	0.79
24:BA:51:G:N2	24:BA:120:U:H3	1.81	0.79
24:BA:707:G:H2'	24:BA:708:C:C6	2.18	0.79
24:BA:869:G:C6	24:BA:909:A:N6	2.50	0.79
27:BD:84:TYR:HB3	27:BD:91:ARG:HG3	1.63	0.79
24:BA:1658:C:P	28:BE:134:ILE:HB	2.23	0.79
29:BF:119:ARG:HH21	29:BF:119:ARG:CB	1.92	0.79
29:BF:184:TYR:HD2	29:BF:184:TYR:H	1.29	0.79
30:BG:39:ILE:HG23	30:BG:157:ILE:HB	1.65	0.79
33:BL:14:ALA:HB1	33:BL:45:THR:O	1.82	0.79
34:BM:22:THR:HG22	34:BM:61:ARG:HH22	1.47	0.79
36:BO:38:GLN:C	36:BO:40:SER:N	2.25	0.79
37:BP:115:MET:SD	37:BP:116:GLU:N	2.56	0.79
38:BQ:78:LYS:O	38:BQ:82:GLU:CB	2.31	0.79
39:BR:106:ARG:NH1	39:BR:110:LEU:HB3	1.98	0.79
40:BS:17:THR:HG21	40:BS:20:PRO:CG	2.12	0.79
44:BW:12:VAL:O	44:BW:12:VAL:HG12	1.81	0.79
45:BX:41:GLY:HA3	45:BX:61:ILE:O	1.83	0.79
46:BY:126:VAL:O	46:BY:165:VAL:HG23	1.83	0.79
24:BA:2277:G:H3'	47:BZ:12:ASN:HD21	1.46	0.79
26:BC:59:ARG:HH11	26:BC:59:ARG:HB2	1.46	0.79
1:AA:346:G:H2'	1:AA:347:G:O4'	1.83	0.79
1:AA:1126:U:H2'	1:AA:1127:G:H8	1.48	0.78
1:AA:1135:U:H2'	1:AA:1137:C:C6	2.17	0.78
1:AA:1319:A:H4'	21:AV:70:LYS:NZ	1.98	0.78
1:AA:452:A:H2'	1:AA:453:A:H8	1.48	0.78
1:AA:483:C:OP2	1:AA:484:G:H3'	1.82	0.78
2:AC:50:U:H2'	2:AC:51:C:H6	1.47	0.78
3:AD:41:G:H8	3:AD:41:G:H5'	1.45	0.78
4:AE:182:ILE:HG23	4:AE:183:PRO:HD2	1.63	0.78
5:AF:111:LEU:O	5:AF:202:ILE:HD12	1.82	0.78
5:AF:76:VAL:O	5:AF:83:ARG:HG2	1.83	0.78
6:AG:94:LEU:O	6:AG:97:LEU:HB2	1.83	0.78
7:AH:79:GLU:HG3	7:AH:93:PRO:CD	2.12	0.78
10:AK:112:LEU:HD21	10:AK:114:THR:HG23	1.65	0.78
10:AK:10:LEU:O	10:AK:14:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:113:ARG:C	14:AO:114:LYS:HG3	2.03	0.78
15:AP:11:ARG:O	15:AP:45:VAL:HB	1.82	0.78
15:AP:78:ILE:HA	15:AP:81:LEU:CD1	2.14	0.78
1:AA:741:G:OP1	17:AR:39:LEU:HD12	1.83	0.78
18:AS:26:ARG:NH2	18:AS:31:LYS:HE3	1.97	0.78
19:AT:92:ARG:O	19:AT:95:TYR:HB2	1.82	0.78
48:B1:51:GLN:O	48:B1:55:LEU:HD13	1.82	0.78
24:BA:1266:G:OP1	51:B4:19:ARG:NE	2.15	0.78
51:B4:31:VAL:O	51:B4:39:MET:HB2	1.82	0.78
51:B4:50:GLY:O	51:B4:55:ARG:HA	1.84	0.78
54:B7:1:MET:N	54:B7:2:PRO:HD2	1.97	0.78
24:BA:1314:C:H2'	24:BA:1315:C:C6	2.18	0.78
24:BA:1356:G:O2'	24:BA:1357:U:H5'	1.83	0.78
24:BA:1702:G:H2'	24:BA:1703:G:H5''	1.62	0.78
24:BA:1862:G:H2'	24:BA:1863:G:H8	1.45	0.78
24:BA:1903:G:H2'	24:BA:1904:G:H8	1.48	0.78
24:BA:1999:C:H4'	24:BA:2723:C:O2	1.82	0.78
24:BA:2584:U:H2'	24:BA:2585:U:C6	2.18	0.78
24:BA:2607:G:H2'	24:BA:2608:G:H5'	1.63	0.78
24:BA:2712:U:H2'	24:BA:2712(A):A:C5'	2.12	0.78
24:BA:271(B):G:H5''	24:BA:271(C):U:C4'	2.12	0.78
24:BA:2747:G:N2	24:BA:2754:U:N3	2.32	0.78
24:BA:388:G:N2	24:BA:390:A:C2	2.51	0.78
24:BA:559:G:H2'	24:BA:560:C:O4'	1.82	0.78
24:BA:627:A:N6	24:BA:638:G:H1'	1.98	0.78
24:BA:757:U:O2'	24:BA:758:C:H5'	1.82	0.78
24:BA:845:G:O5'	24:BA:845:G:H8	1.65	0.78
24:BA:898:C:N4	24:BA:899:A:C8	2.51	0.78
24:BA:919:G:N3	24:BA:920:G:C8	2.52	0.78
25:BB:103:U:H2'	25:BB:104:A:H5'	1.64	0.78
27:BD:231:HIS:O	27:BD:232:PRO:C	2.18	0.78
29:BF:110:LEU:HA	29:BF:183:VAL:HG22	1.64	0.78
29:BF:201:VAL:CG1	29:BF:205:ARG:HH21	1.94	0.78
34:BM:33:LEU:HD11	34:BM:52:VAL:CG1	2.12	0.78
34:BM:36:GLY:N	34:BM:49:GLY:H	1.79	0.78
34:BM:91:LEU:HG	34:BM:92:ALA:N	1.98	0.78
35:BN:11:ALA:HB1	35:BN:97:ARG:NE	1.97	0.78
37:BP:16:ARG:NH1	37:BP:72:LYS:HA	1.96	0.78
38:BQ:57:ARG:NE	38:BQ:62:ALA:HB2	1.98	0.78
39:BR:12:PHE:CD1	39:BR:13:ARG:N	2.52	0.78
39:BR:3:ARG:O	39:BR:7:TYR:HB2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:50:LYS:HZ3	44:BW:87:GLN:HB2	1.45	0.78
45:BX:47:LYS:HD3	45:BX:51:VAL:HB	1.63	0.78
46:BY:122:ARG:C	46:BY:124:ILE:H	1.86	0.78
26:BC:193:ILE:HD13	26:BC:226:PRO:O	1.82	0.78
1:AA:579:G:O2'	1:AA:580:U:H5'	1.83	0.78
1:AA:862:C:H1'	1:AA:874:G:H5''	1.66	0.78
7:AH:147:ASP:O	7:AH:150:ARG:HB2	1.83	0.78
7:AH:53:LEU:CD2	7:AH:53:LEU:H	1.96	0.78
7:AH:81:GLU:HA	7:AH:89:ILE:O	1.82	0.78
9:AJ:106:GLN:HA	9:AJ:109:ASN:HD22	1.47	0.78
9:AJ:5:ARG:HB3	9:AJ:5:ARG:NH1	1.98	0.78
9:AJ:5:ARG:HD2	9:AJ:7:ALA:H	1.48	0.78
10:AK:92:ARG:H	10:AK:92:ARG:HD2	1.48	0.78
15:AP:11:ARG:CG	15:AP:12:ASN:H	1.93	0.78
15:AP:3:ARG:HG3	15:AP:7:VAL:HA	1.66	0.78
18:AS:39:TYR:HB2	18:AS:49:LEU:HD13	1.63	0.78
18:AS:75:ARG:HG3	18:AS:80:PHE:HB3	1.65	0.78
19:AT:15:MET:HB3	19:AT:18:THR:HB	1.64	0.78
19:AT:5:VAL:HG12	19:AT:6:LEU:N	1.97	0.78
20:AU:36:ASN:OD1	20:AU:39:VAL:HB	1.83	0.78
22:AW:36:LEU:HD23	22:AW:36:LEU:O	1.83	0.78
50:B3:42:PHE:CG	50:B3:43:TYR:N	2.47	0.78
50:B3:64:GLY:C	50:B3:68:ARG:CZ	2.51	0.78
24:BA:830:G:C4	24:BA:2448:A:C8	2.71	0.78
24:BA:2748:A:N1	24:BA:2756:U:N3	2.31	0.78
24:BA:616:A:H4'	24:BA:617:G:OP1	1.82	0.78
24:BA:775:G:H2'	24:BA:794:G:H8	1.44	0.78
24:BA:813:U:H2'	24:BA:814:C:H6	1.48	0.78
27:BD:130:ALA:O	27:BD:131:LEU:HD13	1.82	0.78
27:BD:88:ARG:HD3	27:BD:89:SER:H	1.48	0.78
28:BE:36:ARG:O	28:BE:44:TYR:CD2	2.36	0.78
29:BF:52:LYS:O	29:BF:53:THR:HG23	1.84	0.78
30:BG:22:ARG:HB3	30:BG:22:ARG:CZ	2.11	0.78
31:BH:85:LYS:HD2	31:BH:145:ALA:HB2	1.64	0.78
32:BK:34:GLY:C	32:BK:35:LEU:HD22	2.02	0.78
34:BM:16:ILE:N	34:BM:16:ILE:HD12	1.97	0.78
37:BP:37:LEU:HB2	37:BP:129:THR:HA	1.64	0.78
40:BS:35:LYS:O	40:BS:36:GLU:C	2.21	0.78
40:BS:65:LYS:HE2	40:BS:75:ILE:HD12	1.63	0.78
41:BT:92:ARG:C	41:BT:93:LYS:HZ3	1.86	0.78
46:BY:122:ARG:NE	46:BY:170:THR:O	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:42:GLY:O	47:BZ:57:PHE:HD2	1.66	0.78
45:BX:108:THR:HG22	45:BX:109:GLU:OE1	1.83	0.78
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.19	0.78
1:AA:229:U:H2'	1:AA:230:G:C8	2.18	0.78
4:AE:14:GLY:HA3	4:AE:209:ARG:CZ	2.13	0.78
4:AE:61:LEU:HA	4:AE:64:ARG:CD	2.13	0.78
6:AG:105:VAL:HG21	6:AG:121:VAL:HG22	1.64	0.78
6:AG:60:GLU:HB2	6:AG:202:LEU:HD13	1.64	0.78
1:AA:1398:A:H61	7:AH:21:ALA:HA	1.48	0.78
16:AQ:26:ARG:HB2	16:AQ:39:LEU:HD22	1.65	0.78
18:AS:6:LEU:HA	18:AS:18:ARG:O	1.83	0.78
24:BA:1014:U:C2'	24:BA:1015:G:H5'	2.14	0.78
24:BA:976:C:H5''	24:BA:1156:A:N6	1.99	0.78
24:BA:1287:A:OP1	38:BQ:105:ARG:HB2	1.83	0.78
24:BA:1457:A:HO2'	24:BA:1459:G:H8	1.31	0.78
24:BA:200:U:O4	24:BA:248:G:N7	2.15	0.78
24:BA:2658:C:C4	24:BA:2664:G:N2	2.51	0.78
24:BA:272:G:H2'	24:BA:273:G:O4'	1.83	0.78
24:BA:645:C:H5'	24:BA:646:A:OP1	1.82	0.78
24:BA:71:A:H4'	24:BA:72:U:C5'	2.10	0.78
24:BA:904:C:H2'	24:BA:905:U:H6	1.47	0.78
24:BA:962:G:N2	24:BA:963:U:C2	2.51	0.78
27:BD:17:THR:O	27:BD:19:ALA:N	2.16	0.78
27:BD:239:ARG:HD2	27:BD:239:ARG:H	1.48	0.78
24:BA:1805:U:C1'	27:BD:51:VAL:HG11	2.12	0.78
28:BE:51:PHE:C	28:BE:74:PRO:HB3	2.04	0.78
29:BF:176:LEU:HD21	29:BF:180:GLY:O	1.83	0.78
31:BH:137:ASP:HB3	31:BH:140:LYS:HB3	1.63	0.78
34:BM:51:PHE:CE2	34:BM:119:ARG:HG2	2.19	0.78
34:BM:93:THR:O	34:BM:94:HIS:HD2	1.65	0.78
35:BN:24:VAL:HG13	35:BN:30:ALA:HB1	1.65	0.78
37:BP:114:ALA:O	37:BP:118:LEU:HG	1.82	0.78
41:BT:13:LYS:HA	41:BT:16:LYS:NZ	1.98	0.78
41:BT:53:ARG:HG3	41:BT:56:ASP:OD2	1.84	0.78
3:AD:56:C:H5'	26:BC:133:PRO:CG	2.13	0.78
24:BA:2103:C:H2'	24:BA:2104:G:H8	1.47	0.78
24:BA:315:G:H2'	24:BA:316:C:C1'	2.12	0.78
1:AA:1335:C:H5''	1:AA:1336:C:H5'	1.65	0.78
1:AA:388:G:O2'	1:AA:389:A:OP2	1.99	0.78
1:AA:592:G:O2'	1:AA:593:G:H5'	1.83	0.78
1:AA:982:U:H1'	1:AA:983:A:N6	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:150:SER:HA	4:AE:153:ARG:CB	2.12	0.78
4:AE:212:GLN:O	4:AE:216:SER:HB2	1.82	0.78
7:AH:78:HIS:HB3	10:AK:107:LEU:HD21	1.63	0.78
15:AP:52:GLU:O	15:AP:56:LEU:HG	1.84	0.78
15:AP:78:ILE:HA	15:AP:81:LEU:HD13	1.65	0.78
17:AR:5:LYS:NZ	17:AR:5:LYS:HB3	1.99	0.78
21:AV:11:VAL:O	21:AV:16:LEU:HD11	1.82	0.78
21:AV:5:LEU:CB	21:AV:9:VAL:HG22	2.14	0.78
48:B1:38:GLN:H	48:B1:41:GLN:NE2	1.80	0.78
48:B1:23:LYS:HE3	48:B1:52:ILE:CD1	2.12	0.78
43:BV:35:ILE:HG13	51:B4:28:PRO:CD	2.13	0.78
24:BA:1160:G:C6	24:BA:1161:C:N4	2.52	0.78
24:BA:1279:G:H2'	24:BA:1280:G:H8	1.49	0.78
24:BA:1608:A:H2'	24:BA:1611:C:H41	1.49	0.78
24:BA:1608:A:H4'	24:BA:1609:A:OP1	1.82	0.78
24:BA:1826:G:H2'	24:BA:1827:C:C5'	2.14	0.78
24:BA:2216:G:O2'	24:BA:2217:G:H5'	1.84	0.78
24:BA:2597:G:C4'	27:BD:242:ARG:HE	1.96	0.78
24:BA:2690:C:O2'	24:BA:2691:C:H5'	1.82	0.78
24:BA:2839:G:O2'	24:BA:2840:C:H5'	1.84	0.78
24:BA:784:A:O2'	24:BA:785:G:H5'	1.83	0.78
27:BD:120:GLY:H	27:BD:131:LEU:CD1	1.97	0.78
24:BA:2619:C:C4'	28:BE:152:LYS:HA	2.12	0.78
30:BG:102:PHE:CD2	30:BG:106:LEU:HD11	2.17	0.78
30:BG:107:LEU:HD12	30:BG:108:ASN:OD1	1.82	0.78
35:BN:63:VAL:HG21	35:BN:82:ASN:ND2	1.99	0.78
37:BP:77:LYS:HE3	37:BP:87:LYS:HG3	1.64	0.78
40:BS:109:GLU:O	40:BS:110:ILE:HD12	1.84	0.78
41:BT:93:LYS:HZ3	41:BT:93:LYS:N	1.81	0.78
42:BU:14:VAL:HG12	42:BU:15:GLU:N	1.98	0.78
42:BU:62:LEU:HD12	42:BU:96:ILE:HB	0.90	0.78
43:BV:4:LYS:HD3	43:BV:4:LYS:N	1.97	0.78
47:BZ:13:GLY:C	47:BZ:14:ARG:HD3	2.03	0.78
47:BZ:48:GLY:HA3	47:BZ:80:HIS:NE2	1.98	0.78
24:BA:2148:G:HO2'	24:BA:2149:G:H8	1.30	0.78
24:BA:1496:A:C8	24:BA:1496:A:OP2	2.36	0.78
27:BD:273:ARG:HG3	27:BD:273:ARG:NH1	1.97	0.78
24:BA:2246:G:N3	24:BA:2247:A:N7	2.31	0.78
1:AA:160:A:H1'	1:AA:344:A:N7	1.97	0.78
36:BO:148:LEU:HD23	36:BO:149:GLU:H	1.49	0.78
1:AA:11:G:H2'	1:AA:12:U:O4'	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:261:U:H2'	1:AA:263:A:OP2	1.83	0.78
1:AA:640:A:H2'	1:AA:641:U:H5'	1.65	0.78
1:AA:654:G:C2	1:AA:753:A:H1'	2.19	0.78
1:AA:789:U:C2	1:AA:791:G:OP2	2.36	0.78
4:AE:115:LEU:HB2	4:AE:145:LEU:HG	1.65	0.78
6:AG:110:PHE:O	6:AG:161:ASN:ND2	2.16	0.78
10:AK:83:ILE:CA	10:AK:137:VAL:HG22	2.13	0.78
12:AM:3:LYS:CE	12:AM:77:PRO:HD3	2.14	0.78
13:AN:27:ASN:HB2	13:AN:55:LYS:HB2	1.65	0.78
14:AO:56:ALA:CB	14:AO:68:ALA:O	2.27	0.78
15:AP:108:ARG:HH11	15:AP:108:ARG:CA	1.96	0.78
15:AP:20:THR:HA	15:AP:25:ILE:CB	2.13	0.78
19:AT:67:LYS:HA	19:AT:70:ARG:NH1	1.98	0.78
19:AT:75:ARG:HH12	19:AT:77:VAL:HG13	1.48	0.78
24:BA:151:C:C2	24:BA:176:G:N2	2.52	0.78
24:BA:2016:U:H5''	24:BA:2058:A:OP1	1.82	0.78
24:BA:2281:C:C6	24:BA:2281:C:OP2	2.36	0.78
24:BA:2291:U:H2'	24:BA:2292:C:C6	2.18	0.78
24:BA:2575:C:OP1	28:BE:144:ARG:NH2	2.16	0.78
24:BA:2756:U:N3	24:BA:2758:A:C6	2.52	0.78
24:BA:2859:G:H2'	24:BA:2860:A:C8	2.18	0.78
24:BA:458:G:H3'	53:B6:39:ARG:HD2	1.65	0.78
24:BA:727:A:N1	24:BA:729:G:C6	2.51	0.78
28:BE:38:THR:HB	28:BE:39:PRO:HD3	1.65	0.78
28:BE:53:PRO:HD2	28:BE:74:PRO:HA	1.64	0.78
28:BE:36:ARG:CG	28:BE:79:ARG:HH11	1.97	0.78
29:BF:161:GLU:O	29:BF:165:ARG:HB2	1.83	0.78
30:BG:41:GLN:O	30:BG:43:LEU:N	2.16	0.78
31:BH:11:VAL:HG21	31:BH:17:VAL:HG11	1.66	0.78
31:BH:87:LEU:H	31:BH:132:ARG:HB2	1.49	0.78
32:BK:31:LEU:CD2	32:BK:36:ALA:HB3	2.13	0.78
32:BK:5:LEU:HA	32:BK:36:ALA:HB2	1.64	0.78
32:BK:7:GLU:OE1	32:BK:35:LEU:HA	1.82	0.78
34:BM:15:LEU:CD1	34:BM:137:LYS:HB3	2.13	0.78
35:BN:94:ARG:CG	35:BN:95:GLY:N	2.45	0.78
37:BP:134:ARG:HH11	37:BP:137:TYR:H	1.31	0.78
38:BQ:100:LEU:HD22	38:BQ:101:ALA:H	1.49	0.78
39:BR:19:LYS:HD3	39:BR:19:LYS:C	2.03	0.78
41:BT:11:ARG:HG2	41:BT:12:ARG:N	1.96	0.78
41:BT:88:ILE:HG12	42:BU:52:VAL:CG2	2.12	0.78
43:BV:36:LEU:HG	43:BV:51:LEU:CD2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:57:LEU:HD22	44:BW:78:LYS:HD2	1.66	0.78
26:BC:68:LEU:HD22	26:BC:156:ILE:O	1.83	0.78
1:AA:1269:A:H5'	1:AA:1326:C:C4'	2.14	0.78
1:AA:1378:C:H2'	1:AA:1378:C:O2	1.82	0.78
1:AA:1074:G:H5'	4:AE:104:ASN:HB2	1.64	0.78
7:AH:121:LYS:NZ	7:AH:122:GLU:N	2.32	0.78
10:AK:25:ASP:OD2	10:AK:60:ARG:HB2	1.83	0.78
12:AM:49:VAL:O	12:AM:60:ARG:HA	1.83	0.78
13:AN:88:GLY:HA3	13:AN:91:ARG:CB	2.13	0.78
15:AP:19:LEU:HD11	15:AP:30:ALA:HB2	1.65	0.78
19:AT:91:ARG:HA	19:AT:94:ASN:HD21	1.48	0.78
48:B1:54:ARG:O	48:B1:58:VAL:HG13	1.84	0.78
51:B4:51:TYR:CD1	51:B4:54:GLY:N	2.46	0.78
24:BA:464:U:C4'	53:B6:12:ARG:HH22	1.96	0.78
24:BA:126:A:N6	24:BA:127:A:N1	2.32	0.78
24:BA:1270:C:H1'	24:BA:1325:G:N7	1.99	0.78
24:BA:1478:G:O2'	24:BA:1479:G:H5'	1.83	0.78
24:BA:1695:G:N2	24:BA:1696:G:C8	2.52	0.78
24:BA:1878:G:H2'	24:BA:1879:C:C6	2.18	0.78
24:BA:1912:A:C2	24:BA:1919:A:N3	2.51	0.78
24:BA:192:C:O2	24:BA:192:C:H2'	1.83	0.78
24:BA:1955:U:H2'	24:BA:1955:U:O2	1.84	0.78
24:BA:1989:G:O2'	24:BA:1990:C:H5'	1.84	0.78
24:BA:558:G:H5'	34:BM:112:LEU:CD1	2.14	0.78
24:BA:728:G:C1'	24:BA:729:G:C8	2.67	0.78
27:BD:44:ASN:HB2	27:BD:217:ARG:HH22	1.48	0.78
24:BA:1657:C:H5'	28:BE:133:LYS:HD3	1.66	0.78
29:BF:130:ALA:HB3	29:BF:142:TRP:CB	2.12	0.78
29:BF:123:LEU:CD1	29:BF:191:ARG:HD3	2.14	0.78
29:BF:45:ARG:HG2	29:BF:97:TYR:HB2	1.66	0.78
33:BL:10:LEU:HD12	33:BL:23:VAL:CG2	2.12	0.78
36:BO:107:LYS:CE	36:BO:110:TYR:HB3	2.12	0.78
29:BF:34:TRP:HH2	36:BO:6:LEU:N	1.81	0.78
36:BO:81:GLN:CD	36:BO:86:LYS:HG3	2.03	0.78
37:BP:33:GLY:C	37:BP:34:LEU:HD23	2.03	0.78
39:BR:106:ARG:C	39:BR:106:ARG:HH11	1.85	0.78
40:BS:52:ILE:CA	40:BS:66:VAL:HG13	2.13	0.78
41:BT:68:ALA:HA	41:BT:71:GLN:HB2	1.66	0.78
44:BW:12:VAL:HG23	44:BW:28:PHE:HA	1.64	0.78
44:BW:9:LEU:N	44:BW:9:LEU:HD12	1.98	0.78
45:BX:50:ARG:HH21	45:BX:50:ARG:HB3	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:47:LYS:HZ2	45:BX:51:VAL:HG11	1.49	0.78
47:BZ:47:PRO:HA	47:BZ:51:VAL:HG11	1.65	0.78
47:BZ:26:TYR:O	47:BZ:67:VAL:HG21	1.83	0.78
3:AD:54:U:O2	3:AD:58:A:N6	2.17	0.78
26:BC:192:PHE:CE1	26:BC:196:LEU:HD22	2.18	0.78
26:BC:59:ARG:HH11	26:BC:59:ARG:CB	1.96	0.78
24:BA:2195:C:C2	24:BA:2196:C:C6	2.71	0.78
1:AA:1178:G:N2	1:AA:1180:A:H3'	1.99	0.78
1:AA:708:C:O2'	1:AA:709:G:H5'	1.83	0.78
4:AE:80:ILE:CG2	4:AE:212:GLN:HE21	1.97	0.78
4:AE:80:ILE:HD12	4:AE:208:ILE:CG1	2.12	0.78
6:AG:90:GLY:HA3	6:AG:200:GLU:OE2	1.84	0.78
14:AO:85:ILE:HD11	14:AO:98:TYR:CB	2.12	0.78
21:AV:15:LEU:HG	21:AV:16:LEU:HD13	1.66	0.78
24:BA:83:G:O6	24:BA:102:G:H1'	1.84	0.78
24:BA:2848:G:N2	24:BA:2849:U:H3	1.82	0.78
24:BA:707:G:H2'	24:BA:708:C:H6	1.49	0.78
24:BA:775:G:H21	24:BA:787:U:C2'	1.84	0.78
24:BA:957:A:C2	24:BA:2459:A:H5''	2.19	0.78
27:BD:177:LEU:HD11	27:BD:181:GLU:HB2	1.64	0.78
27:BD:199:ALA:O	27:BD:202:LYS:HB2	1.84	0.78
24:BA:2597:G:H5'	27:BD:242:ARG:CD	2.12	0.78
29:BF:6:VAL:CA	29:BF:20:LEU:CD1	2.62	0.78
31:BH:149:ARG:HH21	31:BH:164:TYR:HD1	1.32	0.78
31:BH:83:TYR:O	31:BH:135:GLY:N	2.15	0.78
34:BM:57:ALA:H	34:BM:124:ALA:HA	1.49	0.78
36:BO:46:LYS:HB2	36:BO:49:ARG:CB	2.13	0.78
36:BO:72:PRO:HG3	36:BO:110:TYR:CD2	2.19	0.78
38:BQ:118:GLU:OE2	38:BQ:118:GLU:HA	1.83	0.78
40:BS:105:LEU:O	40:BS:109:GLU:HG3	1.84	0.78
46:BY:94:GLU:N	46:BY:95:PRO:HD3	1.99	0.78
32:BK:77:LEU:HD11	32:BK:140:LEU:HB3	1.66	0.78
32:BK:88:ILE:HG22	32:BK:90:GLY:H	1.48	0.78
24:BA:2120:G:N2	26:BC:167:LYS:HZ2	1.82	0.78
26:BC:78:ALA:HA	26:BC:119:VAL:CG2	2.14	0.78
26:BC:21:THR:HG22	26:BC:225:ASN:HB3	1.65	0.78
26:BC:73:ARG:HD2	26:BC:93:TYR:CE2	2.18	0.78
31:BH:170:ARG:O	31:BH:171:LEU:HD23	1.84	0.78
1:AA:1129:C:N4	1:AA:1139:G:C6	2.52	0.78
1:AA:1181:G:H2'	1:AA:1182:G:O4'	1.84	0.78
1:AA:1192:C:C5	1:AA:1193:G:C8	2.72	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1298:C:C5	9:AJ:114:ARG:HB3	2.19	0.78
1:AA:267:C:N4	1:AA:268:C:N4	2.31	0.78
1:AA:765:G:H21	1:AA:816:A:H2	1.32	0.78
7:AH:115:VAL:HG11	7:AH:118:ILE:HD11	1.65	0.78
7:AH:144:THR:HB	7:AH:146:ALA:HB3	1.66	0.78
8:AI:42:GLU:HB2	8:AI:61:LEU:HD22	1.65	0.78
10:AK:92:ARG:HD2	10:AK:92:ARG:N	1.96	0.78
11:AL:48:GLU:N	11:AL:49:PRO:HD2	1.99	0.78
1:AA:689:C:P	13:AN:46:GLY:HA3	2.23	0.78
18:AS:35:LYS:HD2	18:AS:36:ILE:N	1.98	0.78
1:AA:280:C:H1'	19:AT:38:ARG:CD	2.12	0.78
19:AT:88:TYR:N	19:AT:91:ARG:HH21	1.82	0.78
49:B2:3:ARG:O	49:B2:59:VAL:O	2.01	0.78
24:BA:1647:G:C4'	24:BA:1648:C:OP1	2.32	0.78
24:BA:688:U:H5'	24:BA:1780:A:C6	2.17	0.78
24:BA:1785:A:H2'	24:BA:1786:A:C8	2.18	0.78
24:BA:2666:C:C3'	24:BA:2667:C:H5'	2.13	0.78
24:BA:341:G:H2'	24:BA:342:G:C8	2.19	0.78
24:BA:742:G:H5'	24:BA:1675:C:O2'	1.84	0.78
24:BA:861:A:H62	24:BA:917:A:N6	1.70	0.78
24:BA:914:C:H3'	24:BA:914:C:C6	2.19	0.78
24:BA:2312:U:C5'	30:BG:43:LEU:HD22	2.10	0.78
31:BH:120:GLY:HA3	31:BH:136:ILE:CG2	2.13	0.78
24:BA:1058:G:H21	33:BL:116:ASN:ND2	1.81	0.78
33:BL:23:VAL:CG1	33:BL:34:ILE:HA	2.14	0.78
34:BM:43:THR:HB	34:BM:44:PRO:HD2	1.62	0.78
34:BM:89:LYS:HZ1	34:BM:89:LYS:N	1.79	0.78
35:BN:18:LYS:HE2	35:BN:44:LYS:CD	2.09	0.78
35:BN:64:ARG:NH2	35:BN:64:ARG:HG3	1.92	0.78
45:BX:49:VAL:O	45:BX:56:PRO:HD3	1.84	0.78
3:AD:62:C:H2'	3:AD:63:G:H8	1.49	0.78
26:BC:74:VAL:HG22	26:BC:112:ALA:CB	2.12	0.78
26:BC:78:ALA:O	26:BC:119:VAL:HG11	1.84	0.78
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.17	0.78
1:AA:113:G:H2'	1:AA:114:U:C6	2.19	0.78
1:AA:1308:U:H3'	15:AP:99:ARG:CZ	2.14	0.78
1:AA:279:A:C5'	1:AA:280:C:H3'	2.14	0.78
1:AA:384:G:H2'	1:AA:385:C:C6	2.18	0.78
1:AA:576:G:N7	1:AA:881:G:H1'	1.99	0.78
1:AA:9:G:H5''	7:AH:126:ARG:HD3	1.64	0.78
9:AJ:107:ALA:O	9:AJ:110:GLN:HB2	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:10:LEU:HD21	10:AK:85:ARG:HD3	1.66	0.78
10:AK:112:LEU:HD23	10:AK:112:LEU:O	1.84	0.78
10:AK:13:ILE:HG22	10:AK:14:ARG:N	1.97	0.78
14:AO:58:VAL:O	14:AO:65:GLU:HA	1.84	0.78
18:AS:49:LEU:HD11	18:AS:51:VAL:HG22	1.64	0.78
24:BA:1022:G:N2	24:BA:1023:U:O4	2.16	0.78
24:BA:1025:G:N2	24:BA:1026:U:OP1	2.16	0.78
24:BA:1361:G:H2'	24:BA:1362:C:H6	1.48	0.78
24:BA:1387:C:H2'	24:BA:1388:G:H8	1.49	0.78
24:BA:1778:U:H2'	24:BA:1779:U:C6	2.18	0.78
24:BA:2075:U:C2'	24:BA:2076:U:C5'	2.62	0.78
24:BA:285:C:H2'	24:BA:286:C:C6	2.19	0.78
24:BA:519:U:H5''	43:BV:75:TYR:CB	2.13	0.78
24:BA:950:G:H2'	24:BA:951:C:H6	1.46	0.78
25:BB:14:U:O2'	25:BB:107:U:H1'	1.84	0.78
25:BB:32:C:H3'	25:BB:33:G:H8	1.47	0.78
27:BD:159:ALA:HB1	27:BD:198:ASN:O	1.83	0.78
24:BA:728:G:C4'	27:BD:16:MET:SD	2.72	0.78
34:BM:43:THR:CB	34:BM:44:PRO:CD	2.60	0.78
35:BN:41:ALA:H	35:BN:59:LYS:NZ	1.82	0.78
35:BN:7:TYR:HB3	35:BN:18:LYS:HZ1	1.46	0.78
38:BQ:102:GLU:CD	38:BQ:103:ARG:H	1.87	0.78
39:BR:11:LYS:HZ1	39:BR:15:ARG:NH2	1.81	0.78
39:BR:3:ARG:CD	39:BR:4:LEU:H	1.96	0.78
40:BS:3:ARG:O	40:BS:7:ILE:HG12	1.84	0.78
42:BU:21:ARG:N	42:BU:93:GLU:OE2	2.16	0.78
45:BX:13:VAL:CG2	45:BX:14:LEU:N	2.47	0.78
45:BX:50:ARG:HB2	45:BX:54:LYS:CE	2.14	0.78
46:BY:57:ILE:CG2	46:BY:58:VAL:N	2.45	0.78
47:BZ:53:MET:CE	47:BZ:57:PHE:HA	2.14	0.78
7:AH:45:PHE:HD2	7:AH:45:PHE:H	1.31	0.78
1:AA:1296:C:H1'	1:AA:1302:U:O4	1.83	0.78
1:AA:1239:A:H62	1:AA:1299:A:H61	1.30	0.78
1:AA:1345:U:H5'	1:AA:1346:A:OP1	1.84	0.78
1:AA:1507:A:H2'	1:AA:1508:G:O4'	1.83	0.78
1:AA:815:A:H2	1:AA:1527:C:O2	1.67	0.78
1:AA:99:C:H2'	1:AA:101:A:C8	2.18	0.78
5:AF:38:ARG:HB2	5:AF:94:LEU:HD11	1.65	0.78
6:AG:125:HIS:O	6:AG:126:ILE:HG12	1.83	0.78
6:AG:129:ASN:OD1	6:AG:144:ASP:HB3	1.84	0.78
10:AK:112:LEU:HD21	10:AK:114:THR:CG2	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:95:ILE:O	13:AN:98:LEU:HB2	1.83	0.78
16:AQ:26:ARG:HB2	16:AQ:39:LEU:CD2	2.14	0.78
1:AA:266:G:H8	19:AT:67:LYS:HZ3	1.31	0.78
22:AW:13:LEU:HD13	22:AW:17:ARG:NH2	1.99	0.78
24:BA:1222:C:C4	24:BA:1223:C:H5	2.02	0.78
24:BA:1223:C:N3	24:BA:1227:A:N1	2.32	0.78
24:BA:1438:U:H3	24:BA:1553:A:H61	1.32	0.78
24:BA:1712:C:H2'	24:BA:1716:U:H6	1.49	0.78
24:BA:752:A:H62	24:BA:1781:C:C4'	1.97	0.78
24:BA:2070:G:O2'	24:BA:2071:A:H5'	1.84	0.78
24:BA:2344:U:H3'	52:B5:38:LYS:HG3	1.64	0.78
24:BA:2883:A:H3'	24:BA:2884:U:H5'	1.64	0.78
24:BA:455:C:C5'	24:BA:456:C:OP1	2.32	0.78
24:BA:507:A:H5''	24:BA:508:G:OP1	1.84	0.78
24:BA:839:U:H2'	24:BA:840:C:C6	2.19	0.78
24:BA:1798:U:H5'	27:BD:257:LEU:CD1	2.13	0.78
28:BE:53:PRO:CD	28:BE:74:PRO:HA	2.14	0.78
30:BG:53:LEU:CD2	30:BG:70:VAL:HA	2.14	0.78
31:BH:43:VAL:CG1	31:BH:44:VAL:N	2.46	0.78
32:BK:28:ASN:C	32:BK:32:PRO:HG3	2.04	0.78
32:BK:31:LEU:HD21	32:BK:36:ALA:HB3	1.65	0.78
32:BK:7:GLU:C	32:BK:14:ASP:HA	2.04	0.78
33:BL:108:ALA:HB1	33:BL:123:ALA:CB	2.14	0.78
35:BN:97:ARG:CA	35:BN:97:ARG:CZ	2.60	0.78
36:BO:114:ILE:CG2	36:BO:123:LEU:HD11	2.14	0.78
37:BP:16:ARG:CZ	37:BP:72:LYS:HA	2.14	0.78
25:BB:114:G:C1'	39:BR:47:THR:HG21	2.13	0.78
41:BT:108:GLU:HG2	41:BT:109:LEU:N	1.97	0.78
24:BA:1162:G:H4'	42:BU:23:GLU:HB3	1.66	0.78
44:BW:26:TYR:HB2	44:BW:28:PHE:CZ	2.19	0.78
45:BX:82:PRO:HD3	45:BX:97:ARG:N	1.99	0.78
24:BA:2124:G:H4'	26:BC:42:GLU:HG3	1.66	0.78
1:AA:1064:G:OP1	1:AA:1386:G:H4'	1.84	0.77
1:AA:1418:A:N3	24:BA:1959:G:H1'	1.99	0.77
1:AA:329:A:H4'	1:AA:330:C:OP1	1.83	0.77
1:AA:519:C:H2'	1:AA:520:A:H5'	1.66	0.77
1:AA:8:A:H4'	1:AA:9:G:OP1	1.84	0.77
1:AA:955:U:C2	1:AA:956:U:C5	2.73	0.77
6:AG:145:GLU:HA	6:AG:183:GLY:O	1.84	0.77
6:AG:18:LYS:HA	6:AG:33:MET:CE	2.14	0.77
1:AA:940:C:OP1	9:AJ:102:ARG:HD3	1.82	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:86:ILE:HD13	10:AK:135:CYS:HA	1.66	0.77
10:AK:86:ILE:HG22	10:AK:87:SER:N	1.99	0.77
1:AA:1371:G:H5''	11:AL:68:GLY:CA	2.14	0.77
14:AO:34:ARG:O	14:AO:60:LEU:HB2	1.83	0.77
15:AP:11:ARG:HG3	15:AP:12:ASN:H	1.47	0.77
15:AP:48:LEU:HD22	15:AP:53:VAL:HG23	1.66	0.77
21:AV:46:GLY:HA2	21:AV:62:ILE:O	1.84	0.77
22:AW:73:HIS:H	22:AW:76:ALA:HB3	1.49	0.77
24:BA:1206:G:H3'	24:BA:1206:G:H8	1.50	0.77
24:BA:1255:U:C5'	24:BA:1256:G:H5''	2.14	0.77
24:BA:1270:C:OP2	24:BA:1270:C:H6	1.67	0.77
24:BA:1368:G:O2'	24:BA:1369:G:H5'	1.82	0.77
24:BA:1612:C:O3'	53:B6:5:TRP:CD1	2.36	0.77
24:BA:1811:G:H2'	24:BA:1812:A:C8	2.16	0.77
24:BA:1966:A:H1'	24:BA:2593:U:C5'	2.14	0.77
24:BA:2299:G:O2'	24:BA:2300:G:H5'	1.84	0.77
24:BA:2436:G:O2'	24:BA:2437:U:H5'	1.85	0.77
24:BA:370:G:C2	24:BA:424:G:N7	2.52	0.77
24:BA:454:A:O2'	24:BA:455:C:C4	2.37	0.77
24:BA:663:G:OP1	36:BO:18:ARG:HD2	1.83	0.77
24:BA:783:A:H8	27:BD:227:ASN:OD1	1.66	0.77
27:BD:75:ILE:CG2	27:BD:98:VAL:HB	2.13	0.77
29:BF:4:VAL:O	29:BF:20:LEU:HD12	1.82	0.77
31:BH:111:HIS:O	31:BH:113:VAL:HG23	1.83	0.77
31:BH:60:ARG:NH2	31:BH:64:LEU:HD11	1.98	0.77
32:BK:5:LEU:HA	32:BK:36:ALA:CB	2.14	0.77
36:BO:46:LYS:HD2	36:BO:46:LYS:N	1.99	0.77
37:BP:25:ASP:HB3	37:BP:102:VAL:HG12	1.65	0.77
37:BP:79:LEU:HB2	37:BP:80:GLU:OE2	1.84	0.77
39:BR:110:LEU:HD23	39:BR:110:LEU:O	1.84	0.77
24:BA:2018:G:N3	41:BT:34:LYS:NZ	2.31	0.77
26:BC:225:ASN:ND2	26:BC:227:HIS:HB2	1.99	0.77
1:AA:1210:C:H4'	1:AA:1214:C:H42	1.48	0.77
1:AA:1317:C:H2'	1:AA:1318:A:O4'	1.84	0.77
1:AA:928:G:N2	1:AA:1390:U:H1'	1.99	0.77
1:AA:1399:C:C4	1:AA:1502:A:N7	2.52	0.77
1:AA:600:C:OP1	10:AK:97:VAL:N	2.15	0.77
1:AA:784:C:H5''	24:BA:1837:C:OP1	1.82	0.77
4:AE:217:ARG:HA	4:AE:220:ASP:OD2	1.85	0.77
5:AF:30:ARG:HG2	5:AF:30:ARG:HH11	1.49	0.77
6:AG:159:ARG:O	6:AG:163:GLU:CB	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:87:SER:CB	7:AH:131:ILE:HG12	2.14	0.77
8:AI:14:LEU:HD13	8:AI:18:GLN:HB3	1.66	0.77
10:AK:40:ALA:N	10:AK:45:ILE:HG23	1.99	0.77
10:AK:46:LYS:NZ	10:AK:64:LYS:HA	2.00	0.77
11:AL:47:LEU:HD12	11:AL:51:ARG:CZ	2.15	0.77
14:AO:18:VAL:O	14:AO:19:ARG:HG3	1.84	0.77
1:AA:324:G:OP1	22:AW:22:ARG:HB3	1.83	0.77
48:B1:25:ARG:HG3	48:B1:25:ARG:HH21	1.49	0.77
24:BA:1078:U:O2	24:BA:1088:A:H1'	1.83	0.77
24:BA:1326:U:O2'	24:BA:1327:C:H5'	1.82	0.77
24:BA:1634:A:O2'	24:BA:1635:G:OP1	2.01	0.77
24:BA:1664:A:N6	24:BA:1666:G:O6	2.17	0.77
24:BA:1779:U:O5'	24:BA:1779:U:C6	2.37	0.77
24:BA:2089:U:H2'	24:BA:2090:G:H8	1.48	0.77
24:BA:2378:A:H2	24:BA:2379:G:H1'	1.48	0.77
24:BA:2392:A:H2'	24:BA:2393:A:H5'	1.66	0.77
24:BA:2633:G:H5'	24:BA:2812:G:H5'	1.67	0.77
24:BA:2807:G:O6	24:BA:2893:G:N7	2.18	0.77
24:BA:523:C:O2'	24:BA:524:U:H5'	1.83	0.77
24:BA:533:G:OP1	41:BT:25:TRP:N	2.18	0.77
24:BA:565:C:OP1	42:BU:78:LYS:HE3	1.84	0.77
24:BA:675:A:N9	24:BA:676:A:H2	1.82	0.77
27:BD:5:LYS:O	27:BD:27:THR:HG22	1.84	0.77
27:BD:71:ASP:O	27:BD:72:LYS:HB2	1.82	0.77
29:BF:42:ALA:O	29:BF:45:ARG:HB2	1.82	0.77
35:BN:10:VAL:CG1	35:BN:17:ARG:HA	2.15	0.77
35:BN:31:LYS:HB3	35:BN:32:TYR:CZ	2.20	0.77
35:BN:69:VAL:H	35:BN:104:ARG:NH2	1.81	0.77
36:BO:73:GLY:H	36:BO:107:LYS:HE3	1.50	0.77
37:BP:101:ARG:HG3	37:BP:101:ARG:HH11	1.48	0.77
37:BP:16:ARG:CG	37:BP:72:LYS:HD2	2.07	0.77
42:BU:4:ILE:N	42:BU:4:ILE:HD12	1.99	0.77
43:BV:95:ILE:N	43:BV:95:ILE:HD12	1.95	0.77
46:BY:163:LEU:HD12	46:BY:163:LEU:H	1.49	0.77
26:BC:77:ILE:HB	26:BC:123:VAL:HG21	1.64	0.77
26:BC:216:THR:OG1	26:BC:219:GLY:HA3	1.84	0.77
26:BC:46:LYS:O	26:BC:210:ARG:HB2	1.83	0.77
1:AA:1058:G:H2'	1:AA:1059:C:O4'	1.85	0.77
1:AA:1128:C:O2	1:AA:1146:A:N6	2.17	0.77
1:AA:297:G:H21	1:AA:299:G:H3'	1.49	0.77
1:AA:715:A:H2'	1:AA:716:A:O4'	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:775:G:N3	1:AA:776:G:N7	2.32	0.77
1:AA:22:G:H4'	1:AA:885:G:C8	2.19	0.77
1:AA:975:A:O2'	1:AA:976:G:OP2	2.02	0.77
4:AE:111:ARG:HH11	4:AE:111:ARG:CA	1.91	0.77
4:AE:91:PRO:HG2	4:AE:155:LEU:HB2	1.66	0.77
7:AH:108:ALA:O	7:AH:112:LEU:HB2	1.84	0.77
7:AH:118:ILE:C	7:AH:119:LEU:HD23	2.05	0.77
8:AI:52:ILE:CG2	8:AI:53:ALA:H	1.97	0.77
8:AI:78:GLU:O	8:AI:81:ILE:HD12	1.82	0.77
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CD2	2.14	0.77
10:AK:6:ILE:HG13	10:AK:85:ARG:NH2	1.99	0.77
11:AL:101:PHE:O	11:AL:102:LEU:HD23	1.84	0.77
11:AL:116:LYS:HD3	11:AL:116:LYS:N	2.00	0.77
11:AL:6:GLY:HA2	11:AL:83:ARG:HB3	1.66	0.77
13:AN:42:TRP:HZ3	13:AN:47:VAL:CG2	1.96	0.77
14:AO:90:VAL:O	14:AO:92:ASP:N	2.16	0.77
20:AU:53:ARG:HG2	20:AU:63:GLN:HE21	1.48	0.77
21:AV:13:ASP:CA	21:AV:16:LEU:HD22	2.14	0.77
24:BA:1062:G:H2'	24:BA:1062:G:N3	1.97	0.77
24:BA:1319:G:O2'	24:BA:1320:C:H5'	1.84	0.77
24:BA:1672:C:C5	24:BA:1673:U:C6	2.72	0.77
24:BA:962:G:H21	24:BA:2250:G:N2	1.81	0.77
24:BA:2447:G:O3'	24:BA:2499:C:OP2	2.02	0.77
24:BA:2615:U:C1'	51:B4:7:PRO:HB3	2.13	0.77
24:BA:650:C:O2	24:BA:650:C:H2'	1.83	0.77
24:BA:672:C:H2'	24:BA:673:C:H6	1.49	0.77
24:BA:848:G:H2'	24:BA:849:A:N7	1.98	0.77
24:BA:92:G:O2'	24:BA:93:C:H5'	1.84	0.77
28:BE:154:LYS:HD2	28:BE:154:LYS:C	2.03	0.77
31:BH:120:GLY:N	31:BH:140:LYS:HZ1	1.82	0.77
31:BH:8:PRO:CA	31:BH:51:ARG:HH12	1.93	0.77
33:BL:127:ILE:O	33:BL:131:ALA:HB2	1.84	0.77
34:BM:104:LYS:HD3	34:BM:117:PHE:CE2	2.19	0.77
34:BM:87:LEU:O	34:BM:91:LEU:HD23	1.83	0.77
37:BP:24:GLY:H	37:BP:101:ARG:NH2	1.80	0.77
39:BR:58:LEU:HD12	39:BR:60:GLY:H	1.49	0.77
34:BM:42:TRP:CZ3	41:BT:67:ALA:HB1	2.18	0.77
32:BK:79:ILE:N	32:BK:79:ILE:HD12	1.98	0.77
3:AD:56:C:H2'	3:AD:57:G:O4'	1.85	0.77
1:AA:1103:C:HO2'	4:AE:111:ARG:HD2	1.46	0.77
1:AA:1305:G:H5''	23:AX:4:GLY:C	2.03	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1536:C:H2'	1:AA:1537:U:C6	2.19	0.77
1:AA:233:C:O2'	1:AA:234:C:H5'	1.84	0.77
1:AA:862:C:C2	1:AA:863:U:H5	2.02	0.77
1:AA:21:G:N2	1:AA:916:G:C5	2.51	0.77
2:AC:60:U:OP2	2:AC:60:U:H6	1.67	0.77
1:AA:491:G:OP1	6:AG:151:LYS:HE2	1.85	0.77
11:AL:97:LYS:HB3	11:AL:98:PRO:HD3	1.66	0.77
11:AL:9:ARG:HD2	11:AL:14:VAL:CG2	2.15	0.77
13:AN:57:THR:CG2	13:AN:60:ALA:H	1.96	0.77
13:AN:15:ALA:HB1	13:AN:78:GLN:HE22	1.47	0.77
18:AS:73:LEU:O	18:AS:73:LEU:HD13	1.84	0.77
49:B2:12:PRO:HA	49:B2:15:TYR:CE2	2.20	0.77
53:B6:8:ASN:ND2	53:B6:10:ARG:HB2	1.99	0.77
24:BA:1069:A:H4'	24:BA:1070:A:O5'	1.82	0.77
24:BA:1242:A:H3'	24:BA:1243:G:H8	1.49	0.77
24:BA:1264:G:H4'	51:B4:15:ARG:NH1	2.00	0.77
24:BA:1536:A:H2'	24:BA:1537:C:C6	2.18	0.77
24:BA:2268:A:H3'	24:BA:2269:A:H5''	1.66	0.77
24:BA:2432:A:N7	24:BA:2433:A:N7	2.32	0.77
24:BA:2749:A:C5	24:BA:2750:A:N7	2.53	0.77
24:BA:293:U:C6	24:BA:293:U:H3'	2.20	0.77
24:BA:344:G:C2	24:BA:345:A:C6	2.72	0.77
24:BA:602:G:H8	24:BA:602:G:O5'	1.68	0.77
24:BA:702:G:O2'	24:BA:703:U:H5'	1.84	0.77
24:BA:830:G:C5	24:BA:2448:A:H8	2.03	0.77
27:BD:118:VAL:HG12	27:BD:119:ALA:H	1.49	0.77
27:BD:147:LEU:HA	27:BD:185:VAL:HG13	1.64	0.77
28:BE:116:VAL:O	28:BE:117:MET:C	2.21	0.77
29:BF:125:LEU:HD22	29:BF:128:ALA:HB2	1.64	0.77
29:BF:157:VAL:CG2	29:BF:194:MET:HA	2.14	0.77
31:BH:11:VAL:CG2	31:BH:15:VAL:HG11	2.12	0.77
36:BO:85:LEU:O	36:BO:86:LYS:HD3	1.85	0.77
41:BT:44:ASN:HD21	42:BU:78:LYS:H	1.32	0.77
45:BX:13:VAL:C	45:BX:70:SER:HB3	2.05	0.77
45:BX:13:VAL:HG13	45:BX:70:SER:OG	1.84	0.77
45:BX:23:ARG:HD2	45:BX:39:VAL:CG2	2.14	0.77
46:BY:105:VAL:HB	46:BY:140:ASP:OD1	1.83	0.77
24:BA:2329:G:H21	47:BZ:41:ARG:HH22	1.30	0.77
32:BK:79:ILE:CD1	32:BK:142:VAL:HG12	2.15	0.77
24:BA:2106:G:O2'	24:BA:2107:C:H5'	1.85	0.77
1:AA:307:C:C6	1:AA:307:C:O5'	2.38	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:476:G:N2	1:AA:477:G:H1'	1.99	0.77
4:AE:182:ILE:CG2	4:AE:183:PRO:HD2	2.14	0.77
4:AE:46:LYS:HA	4:AE:49:GLU:OE1	1.84	0.77
8:AI:26:ILE:O	8:AI:30:LEU:HD12	1.83	0.77
8:AI:41:GLU:HB3	8:AI:62:TRP:HE3	1.49	0.77
8:AI:65:VAL:HG23	8:AI:66:GLU:O	1.84	0.77
10:AK:119:LEU:HB3	10:AK:123:GLU:OE2	1.84	0.77
13:AN:79:SER:CA	13:AN:104:GLN:HE21	1.96	0.77
17:AR:36:ILE:HG13	17:AR:59:MET:SD	2.24	0.77
22:AW:90:GLN:HA	22:AW:93:GLU:OE1	1.84	0.77
48:B1:27:LEU:H	48:B1:27:LEU:HD12	1.50	0.77
49:B2:5:LYS:HE2	49:B2:57:GLU:OE1	1.83	0.77
54:B7:22:VAL:O	54:B7:48:PHE:CD2	2.37	0.77
24:BA:1297:C:O2'	24:BA:1298:C:H5'	1.83	0.77
24:BA:1308:A:H2'	24:BA:1309:G:C8	2.20	0.77
24:BA:1503:U:H2'	24:BA:1504:C:C6	2.20	0.77
24:BA:1567:A:H4'	24:BA:1568:G:C2	2.18	0.77
24:BA:2599:G:O2'	24:BA:2600:A:H5'	1.83	0.77
24:BA:2646:C:O2'	24:BA:2647:U:H5'	1.85	0.77
24:BA:2771:C:H2'	24:BA:2772:C:C6	2.19	0.77
24:BA:2809:A:C1'	24:BA:2811:G:N7	2.44	0.77
24:BA:280:C:H6	24:BA:280:C:OP2	1.67	0.77
24:BA:640:C:C2'	24:BA:641:C:H5'	2.15	0.77
24:BA:885:C:H42	24:BA:889:C:H1'	1.48	0.77
25:BB:41:U:H5'	25:BB:42:C:H5'	1.67	0.77
25:BB:44:G:H1'	25:BB:47:C:H42	1.47	0.77
25:BB:73:A:N1	46:BY:29:TYR:CE1	2.53	0.77
27:BD:204:ILE:HG23	27:BD:205:VAL:N	1.98	0.77
29:BF:4:VAL:HA	29:BF:20:LEU:HB2	1.66	0.77
31:BH:11:VAL:HG22	31:BH:15:VAL:CG1	2.13	0.77
31:BH:85:LYS:HB3	31:BH:133:VAL:CG1	2.14	0.77
35:BN:75:SER:OG	40:BS:77:PRO:O	2.02	0.77
36:BO:46:LYS:HB2	36:BO:49:ARG:HB2	1.67	0.77
37:BP:51:ARG:HG3	37:BP:52:VAL:HG23	1.66	0.77
43:BV:16:LYS:N	43:BV:16:LYS:HD3	1.97	0.77
45:BX:16:ALA:HB3	45:BX:68:HIS:CE1	2.19	0.77
45:BX:38:ILE:HA	45:BX:60:PHE:CZ	2.19	0.77
46:BY:23:LYS:HE3	46:BY:38:TYR:HB3	1.67	0.77
7:AH:30:ALA:O	7:AH:45:PHE:HA	1.85	0.77
26:BC:71:GLN:HG3	26:BC:72:VAL:N	1.98	0.77
1:AA:1160:G:O6	1:AA:1181:G:N1	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1505:G:H4'	1:AA:1506:U:O5'	1.85	0.77
1:AA:174:C:C2	1:AA:175:C:C5	2.72	0.77
4:AE:213:LEU:HD22	4:AE:214:ILE:CD1	2.14	0.77
4:AE:79:ASP:O	4:AE:83:MET:HG2	1.85	0.77
4:AE:91:PRO:HG3	4:AE:154:LEU:CB	2.14	0.77
12:AM:79:ARG:HH22	12:AM:82:ILE:HG21	1.50	0.77
1:AA:563:A:H2'	14:AO:15:ARG:NH1	1.98	0.77
14:AO:83:VAL:HG22	14:AO:84:LEU:H	1.48	0.77
15:AP:10:PRO:O	15:AP:45:VAL:HG21	1.85	0.77
15:AP:91:ARG:NH1	15:AP:96:LEU:HD12	2.00	0.77
20:AU:67:ALA:HA	20:AU:70:ILE:CD1	2.12	0.77
22:AW:63:ILE:HD11	22:AW:80:ARG:HB3	1.67	0.77
48:B1:7:GLU:O	48:B1:10:LYS:HB2	1.84	0.77
50:B3:38:LYS:HG2	50:B3:39:CYS:N	1.98	0.77
50:B3:42:PHE:N	50:B3:58:ARG:NH1	2.32	0.77
24:BA:197:A:H3'	24:BA:198:C:C6	2.20	0.77
24:BA:2206:C:O2'	24:BA:2207:C:H5'	1.84	0.77
24:BA:2268:A:H5'	24:BA:2269:A:OP2	1.85	0.77
24:BA:2407:G:H3'	24:BA:2408:U:C5	2.19	0.77
24:BA:241:A:H1'	24:BA:243:U:C6	2.18	0.77
24:BA:2493:U:H6	24:BA:2493:U:C5'	1.96	0.77
24:BA:2876:G:H4'	40:BS:1:MET:H2	1.49	0.77
27:BD:143:HIS:CD2	27:BD:192:THR:HB	2.20	0.77
27:BD:52:ARG:N	27:BD:52:ARG:CD	2.48	0.77
28:BE:149:ARG:HD3	28:BE:150:VAL:N	1.98	0.77
24:BA:675:A:C5'	29:BF:67:GLN:NE2	2.48	0.77
30:BG:53:LEU:HG	30:BG:72:ARG:CD	2.06	0.77
31:BH:98:LEU:HG	31:BH:123:PHE:HB2	1.66	0.77
33:BL:27:LEU:HB3	33:BL:33:ASN:N	2.00	0.77
34:BM:48:MET:O	34:BM:119:ARG:NH1	2.17	0.77
35:BN:23:ARG:CB	35:BN:23:ARG:HH11	1.96	0.77
36:BO:113:LYS:HD2	36:BO:115:LEU:HD12	1.64	0.77
24:BA:1204:A:H61	36:BO:7:ARG:HH11	1.28	0.77
41:BT:112:ARG:NH1	42:BU:49:THR:HG23	1.97	0.77
41:BT:88:ILE:HD13	41:BT:88:ILE:H	1.46	0.77
43:BV:6:ILE:HG12	43:BV:103:ILE:O	1.85	0.77
24:BA:1339:G:H5''	44:BW:16:LYS:HD3	1.67	0.77
32:BK:77:LEU:N	32:BK:77:LEU:HD23	2.00	0.77
26:BC:10:LEU:HD13	26:BC:32:LEU:O	1.85	0.77
1:AA:197:A:C6	1:AA:221:C:H4'	2.20	0.77
1:AA:43:C:H5''	18:AS:12:LYS:CB	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:693:G:O2'	1:AA:694:A:H5'	1.84	0.77
4:AE:180:LEU:O	4:AE:181:PHE:HB2	1.83	0.77
4:AE:61:LEU:HD23	4:AE:62:ALA:N	2.00	0.77
5:AF:70:VAL:O	5:AF:105:GLU:HA	1.85	0.77
6:AG:88:VAL:HG22	7:AH:97:GLY:H	1.49	0.77
1:AA:738:C:OP2	8:AI:92:LYS:HE3	1.84	0.77
12:AM:24:VAL:CA	12:AM:34:VAL:HG21	2.12	0.77
12:AM:30:SER:HB2	12:AM:81:THR:HA	1.65	0.77
13:AN:80:VAL:N	13:AN:104:GLN:NE2	2.32	0.77
13:AN:95:ILE:CA	13:AN:98:LEU:HG	2.12	0.77
17:AR:32:LEU:O	17:AR:36:ILE:HB	1.85	0.77
17:AR:54:ARG:HD3	17:AR:55:GLY:N	1.99	0.77
22:AW:21:LYS:HA	22:AW:24:LEU:HD12	1.66	0.77
48:B1:30:LEU:HD11	48:B1:48:LEU:CD2	2.14	0.77
51:B4:16:ARG:HG3	51:B4:20:ARG:NH2	2.00	0.77
52:B5:48:VAL:O	52:B5:49:HIS:HB2	1.85	0.77
24:BA:1189:A:N3	24:BA:1189:A:C2'	2.46	0.77
24:BA:1281:G:H2'	24:BA:1282:U:C6	2.19	0.77
24:BA:1326:U:H2'	24:BA:1327:C:C5'	2.15	0.77
24:BA:1917:U:H5	24:BA:1918:A:N3	1.82	0.77
24:BA:2037:G:H2'	24:BA:2038:G:C8	2.19	0.77
24:BA:670:A:H2'	36:BO:41:ARG:NH1	2.00	0.77
24:BA:803:U:H2'	24:BA:804:A:H5'	1.65	0.77
24:BA:974:G:N7	24:BA:974(A):C:C4	2.53	0.77
27:BD:174:ILE:N	27:BD:174:ILE:HD12	1.99	0.77
27:BD:237:GLU:OE1	27:BD:239:ARG:NH1	2.15	0.77
28:BE:47:VAL:HA	28:BE:79:ARG:HB2	1.65	0.77
28:BE:91:VAL:HG11	28:BE:93:VAL:HG22	1.67	0.77
24:BA:616:A:H1'	29:BF:180:GLY:HA3	1.66	0.77
24:BA:1036:G:OP1	31:BH:59:ARG:HD3	1.84	0.77
33:BL:21:PRO:HG2	33:BL:22:PRO:CD	2.15	0.77
24:BA:1667:G:OP1	35:BN:7:TYR:CD1	2.38	0.77
36:BO:123:LEU:N	36:BO:138:LEU:HA	2.00	0.77
37:BP:99:PRO:O	37:BP:100:GLY:O	2.02	0.77
40:BS:65:LYS:HG2	40:BS:75:ILE:CB	2.15	0.77
24:BA:1156:A:P	41:BT:55:ARG:HH21	2.07	0.77
41:BT:74:LEU:HD12	41:BT:78:THR:HG21	1.65	0.77
41:BT:82:GLY:HA2	41:BT:117:GLN:CD	2.04	0.77
46:BY:95:PRO:HB2	46:BY:130:PRO:CA	2.14	0.77
32:BK:115:ALA:HB2	32:BK:129:THR:O	1.83	0.77
24:BA:163:U:O5'	24:BA:163:U:H6	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:120:LEU:H	33:BL:120:LEU:HD23	1.49	0.77
1:AA:64:G:H4'	1:AA:65:U:H5''	1.67	0.77
2:AC:21:A:C6	2:AC:46:G:N1	2.53	0.77
4:AE:161:ALA:HA	4:AE:183:PRO:CB	2.12	0.77
7:AH:109:ILE:CG2	7:AH:110:LEU:HD23	2.14	0.77
8:AI:76:ALA:O	8:AI:79:LEU:HG	1.84	0.77
1:AA:1346:A:N1	9:AJ:10:ARG:HD3	2.00	0.77
15:AP:10:PRO:HG2	15:AP:18:ALA:HB1	1.67	0.77
20:AU:86:VAL:O	20:AU:87:ARG:CB	2.32	0.77
21:AV:41:VAL:CB	21:AV:42:PRO:HD2	2.09	0.77
22:AW:36:LEU:HD21	22:AW:55:ILE:CG2	2.14	0.77
50:B3:6:HIS:HB2	50:B3:7:PRO:CD	2.15	0.77
52:B5:15:GLU:HG3	52:B5:20:ASN:O	1.85	0.77
24:BA:49:A:H2	24:BA:120:U:H3	1.31	0.77
24:BA:1472:A:HO2'	24:BA:1473:G:H8	1.33	0.77
24:BA:1530:G:C2'	24:BA:1531:C:C6	2.67	0.77
24:BA:1466:G:H2'	24:BA:1547:C:N4	1.99	0.77
24:BA:243:U:H2'	24:BA:244:A:H5'	1.65	0.77
24:BA:265:A:N7	24:BA:266:G:H1'	1.99	0.77
24:BA:2822:G:H5''	28:BE:113:PHE:CZ	2.19	0.77
24:BA:78:A:OP1	48:B1:5:LEU:HD21	1.85	0.77
24:BA:833:U:H1'	36:BO:48:PRO:CD	2.13	0.77
27:BD:183:ARG:HG3	27:BD:268:ARG:HB2	1.66	0.77
27:BD:5:LYS:O	27:BD:27:THR:CG2	2.33	0.77
28:BE:176:ILE:CG2	28:BE:181:LEU:HB2	2.15	0.77
29:BF:153:SER:CA	29:BF:172:TRP:O	2.29	0.77
29:BF:30:PRO:O	29:BF:33:LEU:CG	2.33	0.77
32:BK:21:VAL:O	32:BK:22:LYS:O	2.02	0.77
33:BL:112:MET:SD	33:BL:123:ALA:HB2	2.24	0.77
34:BM:30:ILE:HD12	34:BM:30:ILE:H	1.50	0.77
34:BM:96:GLU:HG2	34:BM:97:ARG:HD3	1.66	0.77
36:BO:114:ILE:HG21	36:BO:123:LEU:HD21	1.64	0.77
46:BY:102:LEU:HD21	46:BY:125:LEU:HB2	1.65	0.77
24:BA:2246:G:H2'	24:BA:2247:A:H8	1.48	0.77
1:AA:342:C:H2'	1:AA:343:U:H6	1.48	0.77
1:AA:1404:C:C1'	1:AA:1499:A:C2	2.68	0.77
1:AA:37:U:O2'	1:AA:500:G:H4'	1.84	0.77
1:AA:677:U:H2'	1:AA:678:U:C5	2.18	0.77
6:AG:53:ASP:O	6:AG:56:VAL:HB	1.83	0.77
6:AG:98:GLU:HA	6:AG:103:ASN:HD21	1.50	0.77
9:AJ:28:ASN:O	9:AJ:31:MET:HB3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:2:GLU:CA	11:AL:21:PRO:HD2	2.15	0.77
1:AA:1371:G:H5''	11:AL:68:GLY:HA3	1.66	0.77
13:AN:14:VAL:O	13:AN:16:SER:N	2.18	0.77
1:AA:585:G:H4'	14:AO:8:ASN:ND2	2.00	0.77
16:AQ:40:CYS:HB2	16:AQ:42:ILE:HG13	1.66	0.77
20:AU:74:ARG:HG3	20:AU:79:LEU:HD22	1.65	0.77
22:AW:25:ARG:O	22:AW:28:ALA:HB3	1.85	0.77
49:B2:17:LYS:HA	49:B2:20:LYS:HD3	1.66	0.77
49:B2:3:ARG:HH22	49:B2:59:VAL:CG1	1.98	0.77
24:BA:1144:G:H2'	24:BA:1145:C:C5	2.19	0.77
24:BA:1709:U:H2'	24:BA:1710:C:C6	2.20	0.77
24:BA:1790:C:H4'	27:BD:213:ARG:CZ	2.14	0.77
24:BA:1956:U:C6	24:BA:1956:U:O5'	2.38	0.77
24:BA:2501:C:H5''	24:BA:2503:A:O4'	1.85	0.77
24:BA:270(P):C:H2'	24:BA:270(Q):C:H6	1.48	0.77
24:BA:2718:G:H2'	24:BA:2719:G:H8	1.50	0.77
24:BA:2832:U:H2'	24:BA:2879:C:H42	1.47	0.77
24:BA:83:G:H1	24:BA:102:G:HO2'	1.31	0.77
27:BD:17:THR:C	27:BD:19:ALA:H	1.87	0.77
28:BE:21:VAL:O	28:BE:185:LYS:HA	1.84	0.77
30:BG:92:VAL:HG13	30:BG:94:LEU:CD1	2.15	0.77
36:BO:29:LYS:HD2	36:BO:29:LYS:N	1.98	0.77
37:BP:37:LEU:N	37:BP:129:THR:HG22	1.99	0.77
42:BU:50:PRO:O	42:BU:53:GLU:HB2	1.85	0.77
41:BT:47:TYR:CD2	42:BU:75:PHE:HB3	2.19	0.77
45:BX:2:ARG:NH2	45:BX:4:LYS:HB2	1.97	0.77
46:BY:19:ARG:NH2	46:BY:84:GLU:O	2.17	0.77
24:BA:2150:U:C2	24:BA:2151:G:N7	2.52	0.77
1:AA:1336:C:H1'	1:AA:1337:G:C6	2.20	0.77
1:AA:154:C:O2'	1:AA:155:C:H5'	1.85	0.77
1:AA:20:U:H5'	1:AA:572:A:N6	1.98	0.77
1:AA:21:G:C8	1:AA:22:G:N7	2.53	0.77
1:AA:939:G:H2'	1:AA:940:C:C6	2.19	0.77
2:AC:9:G:N2	2:AC:45:G:C8	2.53	0.77
3:AD:71:G:H2'	3:AD:72:C:H6	1.48	0.77
4:AE:14:GLY:O	4:AE:15:VAL:HG13	1.85	0.77
4:AE:23:ARG:HD3	4:AE:24:TRP:N	2.00	0.77
4:AE:69:LEU:HD22	4:AE:91:PRO:C	2.06	0.77
11:AL:47:LEU:HD21	11:AL:50:LEU:HD13	1.65	0.77
11:AL:73:GLN:O	11:AL:77:ILE:HG13	1.85	0.77
48:B1:16:LEU:HD21	48:B1:59:LEU:CB	2.10	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:45:LEU:HD22	54:B7:59:LYS:CE	2.14	0.77
24:BA:1155:A:H8	24:BA:1155:A:OP2	1.66	0.77
24:BA:1449:A:C2	24:BA:1449(A):G:C1'	2.68	0.77
24:BA:1542:G:H1'	24:BA:1543:A:C6	2.19	0.77
24:BA:1820:U:O2'	27:BD:202:LYS:HG3	1.85	0.77
24:BA:304:G:O2'	24:BA:305:U:H5'	1.85	0.77
24:BA:916:G:H21	24:BA:917:A:H62	1.32	0.77
27:BD:139:GLY:H	27:BD:165:ILE:HB	1.49	0.77
27:BD:178:PRO:O	27:BD:180:GLY:N	2.18	0.77
30:BG:91:ARG:HB2	30:BG:91:ARG:NH2	1.99	0.77
24:BA:2093:G:H5'	32:BK:25:TYR:CE1	2.20	0.77
33:BL:79:ARG:NH1	33:BL:134:MET:HE2	2.00	0.77
35:BN:107:ARG:O	35:BN:109:LYS:HG3	1.85	0.77
36:BO:126:VAL:HB	36:BO:146:VAL:CG2	2.10	0.77
24:BA:954:G:H5''	37:BP:17:LEU:CD2	2.14	0.77
38:BQ:57:ARG:HE	38:BQ:62:ALA:HB2	1.50	0.77
40:BS:102:ILE:C	40:BS:104:ASN:N	2.33	0.77
42:BU:67:GLY:O	42:BU:68:LYS:HB2	1.83	0.77
42:BU:64:HIS:HB3	42:BU:96:ILE:HG22	1.67	0.77
46:BY:42:VAL:HB	46:BY:43:GLU:CD	2.04	0.77
47:BZ:37:LEU:HD12	47:BZ:59:LEU:HB3	1.67	0.77
32:BK:132:PRO:HD3	32:BK:138:ILE:N	1.99	0.77
3:AD:55:U:H1'	3:AD:58:A:N7	2.01	0.77
26:BC:128:GLY:HA2	26:BC:137:LEU:HD12	1.67	0.77
26:BC:60:GLY:N	26:BC:163:PHE:HB2	2.00	0.77
25:BB:3:C:H2'	25:BB:4:C:H6	1.50	0.77
1:AA:1396:A:H4'	1:AA:1397:C:H5''	1.65	0.76
1:AA:32:A:N6	1:AA:553:A:N6	2.32	0.76
1:AA:383:A:C2'	1:AA:384:G:H5'	2.15	0.76
1:AA:607:A:H2'	1:AA:608:A:O4'	1.85	0.76
1:AA:727:G:H3'	1:AA:727:G:C8	2.20	0.76
1:AA:21:G:N2	1:AA:915:A:N6	2.33	0.76
5:AF:150:LYS:HA	5:AF:169:ALA:CB	2.14	0.76
11:AL:119:ALA:O	11:AL:120:ARG:HG3	1.85	0.76
11:AL:37:PHE:HE1	11:AL:74:ILE:HG23	1.50	0.76
12:AM:39:PRO:HA	12:AM:70:ARG:HH11	1.50	0.76
13:AN:110:ASP:HB2	20:AU:88:LYS:HD2	1.65	0.76
19:AT:59:ILE:HD11	19:AT:71:PHE:CB	2.15	0.76
22:AW:13:LEU:HD13	22:AW:17:ARG:HH22	1.50	0.76
48:B1:48:LEU:HD12	48:B1:51:GLN:NE2	2.00	0.76
49:B2:6:VAL:HG11	49:B2:54:VAL:HG11	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:10:LYS:HE3	51:B4:15:ARG:CD	2.13	0.76
55:B8:20:HIS:C	55:B8:22:ARG:H	1.88	0.76
24:BA:136:G:H2'	24:BA:137:C:H6	1.48	0.76
24:BA:1818:U:OP2	27:BD:88:ARG:NH1	2.18	0.76
1:AA:1495:U:H1'	24:BA:1912:A:N3	2.00	0.76
24:BA:270(G):C:H2'	24:BA:270(H):C:C5	2.19	0.76
24:BA:2832:U:H4'	24:BA:2832:U:OP1	1.85	0.76
24:BA:685:A:H1'	24:BA:688:U:O4	1.85	0.76
24:BA:68:G:N2	24:BA:74:A:O5'	2.18	0.76
24:BA:782:A:H5''	24:BA:783:A:OP1	1.84	0.76
24:BA:808:G:H2'	24:BA:809:G:O4'	1.85	0.76
24:BA:918:A:C2	24:BA:919:G:C5	2.72	0.76
25:BB:37:C:N4	25:BB:44:G:N1	2.33	0.76
30:BG:108:ASN:OD1	30:BG:111:LEU:HD22	1.85	0.76
34:BM:115:ARG:HA	34:BM:118:LYS:HD2	1.65	0.76
41:BT:52:ARG:HH11	41:BT:53:ARG:HA	1.50	0.76
24:BA:565:C:H5''	42:BU:82:ARG:NH2	2.00	0.76
43:BV:5:ALA:CB	43:BV:54:ALA:HB2	2.10	0.76
26:BC:97:GLU:CA	26:BC:100:ILE:HD12	2.15	0.76
1:AA:1025:U:H2'	1:AA:1026:G:N7	2.00	0.76
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.50	0.76
1:AA:386:C:H2'	1:AA:387:U:H5'	1.67	0.76
1:AA:1256:A:H61	1:AA:1278:U:C2'	1.98	0.76
1:AA:1333:A:O2'	1:AA:1334:G:H5'	1.84	0.76
1:AA:698:G:H2'	1:AA:699:C:H6	1.50	0.76
1:AA:776:G:H5''	1:AA:777:A:OP1	1.86	0.76
1:AA:900:A:H2'	1:AA:901:A:C8	2.20	0.76
4:AE:71:VAL:HG22	4:AE:93:VAL:N	2.00	0.76
6:AG:59:ARG:CA	6:AG:59:ARG:CZ	2.57	0.76
8:AI:50:TYR:OH	20:AU:77:GLY:HA2	1.85	0.76
14:AO:27:LEU:O	14:AO:28:LYS:C	2.22	0.76
15:AP:67:GLU:HG3	15:AP:68:GLY:H	1.48	0.76
24:BA:1510:A:C3'	24:BA:1511:A:C8	2.67	0.76
24:BA:142:G:OP1	24:BA:1598:C:H1'	1.84	0.76
24:BA:1775:U:H2'	24:BA:1776:G:O4'	1.85	0.76
24:BA:1826:G:C6	24:BA:1827:C:C5	2.73	0.76
24:BA:1993:U:H3'	24:BA:1993:U:H6	1.51	0.76
24:BA:2793:G:C6	24:BA:2794:C:N4	2.53	0.76
24:BA:861:A:C6	24:BA:917:A:N6	2.53	0.76
30:BG:63:ILE:HD11	30:BG:105:LYS:HZ2	1.50	0.76
30:BG:118:ARG:NH1	30:BG:120:LEU:HD21	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:120:LEU:HB3	30:BG:181:ARG:HB3	1.66	0.76
33:BL:111:LYS:C	33:BL:113:PRO:HD2	2.04	0.76
33:BL:75:SER:OG	33:BL:130:SER:HB2	1.85	0.76
24:BA:2393:A:H5''	36:BO:56:SER:H	1.49	0.76
37:BP:65:PHE:O	37:BP:66:ILE:HG13	1.86	0.76
40:BS:61:PHE:O	40:BS:62:THR:HG23	1.84	0.76
46:BY:128:VAL:O	46:BY:129:SER:HB2	1.85	0.76
46:BY:144:LEU:CA	46:BY:174:VAL:HG11	2.15	0.76
32:BK:68:LEU:HD11	32:BK:107:VAL:HG13	1.68	0.76
3:AD:52:G:H2'	3:AD:53:G:O4'	1.85	0.76
26:BC:62:VAL:HG13	26:BC:62:VAL:O	1.84	0.76
32:BK:62:LYS:O	32:BK:65:ALA:HB3	1.84	0.76
1:AA:1197:G:C2'	1:AA:1198:G:H5'	2.14	0.76
1:AA:1205:U:H2'	1:AA:1206:G:H8	1.50	0.76
1:AA:1464:G:H2'	1:AA:1465:C:H5	1.50	0.76
4:AE:185:ILE:HG22	4:AE:199:TYR:CB	2.11	0.76
4:AE:87:ARG:HD3	4:AE:234:PRO:HD3	1.67	0.76
9:AJ:26:PHE:HE1	9:AJ:105:VAL:HG22	1.49	0.76
9:AJ:107:ALA:HB3	9:AJ:123:GLU:OE1	1.85	0.76
9:AJ:15:ASP:OD1	9:AJ:18:TYR:HB2	1.86	0.76
1:AA:826:C:H5'	10:AK:12:ARG:NH2	1.99	0.76
11:AL:17:VAL:CA	11:AL:63:ILE:HG23	2.11	0.76
12:AM:8:LEU:HD22	12:AM:94:VAL:CG1	2.15	0.76
15:AP:25:ILE:HG23	15:AP:29:ARG:HB3	1.67	0.76
24:BA:1188:U:O2	24:BA:1188:U:H2'	1.83	0.76
24:BA:1541:U:O2	24:BA:1541:U:H2'	1.84	0.76
24:BA:1632:A:C2	24:BA:1633:G:N2	2.52	0.76
24:BA:2025:C:H2'	24:BA:2026:C:C6	2.20	0.76
24:BA:2092:U:H5	24:BA:2227:A:C6	2.03	0.76
24:BA:2090:G:C6	24:BA:2230:G:O6	2.39	0.76
24:BA:231:C:N4	24:BA:232:G:N2	2.33	0.76
24:BA:2356:C:N4	24:BA:2357:U:O4	2.17	0.76
24:BA:2459:A:N7	24:BA:2493:U:O4	2.18	0.76
24:BA:2517:C:C5	24:BA:2542:A:N7	2.53	0.76
24:BA:398:G:N2	24:BA:399:G:H1'	2.00	0.76
24:BA:740:U:H5'	24:BA:1784:A:OP1	1.84	0.76
24:BA:846:C:H4'	24:BA:847:U:C6	2.20	0.76
24:BA:907:U:OP1	37:BP:26:TYR:CE1	2.37	0.76
27:BD:124:PRO:C	27:BD:126:GLN:H	1.89	0.76
28:BE:109:LYS:CG	28:BE:191:PRO:HG3	2.14	0.76
30:BG:39:ILE:HG23	30:BG:157:ILE:CG1	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:86:MET:H	30:BG:87:PRO:CD	1.97	0.76
31:BH:42:ARG:NE	31:BH:42:ARG:HA	2.00	0.76
33:BL:115:LEU:HD13	33:BL:116:ASN:N	2.01	0.76
34:BM:13:TRP:N	34:BM:138:LEU:HD12	2.00	0.76
34:BM:25:ARG:O	34:BM:28:THR:HG23	1.85	0.76
47:BZ:49:LYS:H	47:BZ:80:HIS:CE1	2.03	0.76
32:BK:101:LEU:HG	32:BK:102:SER:N	2.00	0.76
1:AA:17:U:H2'	1:AA:18:C:C6	2.21	0.76
1:AA:266:G:H21	1:AA:269:C:N4	1.83	0.76
1:AA:93:U:H2'	1:AA:95:G:H8	1.49	0.76
1:AA:953:G:H2'	1:AA:954:G:H8	1.51	0.76
2:AC:5:G:O2'	2:AC:6:G:H5'	1.86	0.76
3:AD:41:G:C8	3:AD:41:G:H5'	2.20	0.76
4:AE:115:LEU:HB2	4:AE:145:LEU:CD1	2.16	0.76
4:AE:68:ILE:HB	4:AE:70:PHE:CZ	2.20	0.76
5:AF:113:ALA:HB2	5:AF:202:ILE:HG13	1.67	0.76
7:AH:16:THR:O	7:AH:26:PHE:HB2	1.85	0.76
9:AJ:11:GLN:HE22	9:AJ:12:LEU:HD12	1.50	0.76
9:AJ:42:ILE:HG22	9:AJ:120:ILE:CD1	2.14	0.76
15:AP:14:ARG:HG2	15:AP:17:VAL:CG2	2.15	0.76
15:AP:98:VAL:HG23	15:AP:110:ARG:HH21	1.50	0.76
24:BA:1263:U:H4'	51:B4:10:LYS:HG3	1.67	0.76
54:B7:30:ARG:HH21	54:B7:43:GLN:C	1.89	0.76
54:B7:60:LEU:O	54:B7:63:PRO:HD2	1.86	0.76
55:B8:1:MET:O	55:B8:35:ARG:HD2	1.86	0.76
24:BA:1023:U:P	24:BA:1025:G:H1	2.09	0.76
24:BA:1061:U:H4'	24:BA:1070:A:C2'	2.15	0.76
24:BA:1204:A:C4'	24:BA:1204:A:OP2	2.34	0.76
24:BA:1782:C:OP1	24:BA:1783:A:OP2	2.03	0.76
24:BA:2056:G:N2	51:B4:4:HIS:HD2	1.84	0.76
24:BA:2866:U:H5''	24:BA:2867:G:OP1	1.84	0.76
24:BA:443:A:N3	24:BA:1201:C:H1'	2.00	0.76
24:BA:624:C:C3'	24:BA:624:C:C6	2.68	0.76
24:BA:763:G:O2'	24:BA:764:A:H3'	1.84	0.76
27:BD:250:TRP:HB3	27:BD:251:GLY:O	1.84	0.76
30:BG:8:LYS:HE2	30:BG:100:TRP:CD1	2.20	0.76
24:BA:2305:A:N3	30:BG:156:ASP:CB	2.48	0.76
34:BM:96:GLU:O	34:BM:100:GLU:HG2	1.85	0.76
34:BM:7:LYS:HG2	34:BM:10:GLU:OE1	1.86	0.76
37:BP:134:ARG:HD2	37:BP:134:ARG:C	2.05	0.76
24:BA:1275:A:H1'	38:BQ:12:ARG:HH21	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:83:ILE:HG23	38:BQ:86:ARG:HE	1.49	0.76
42:BU:39:LEU:CD2	42:BU:60:GLU:HG2	2.10	0.76
43:BV:14:PRO:O	43:BV:17:VAL:HG22	1.84	0.76
43:BV:55:ALA:O	43:BV:58:ALA:HB3	1.85	0.76
43:BV:64:MET:HG3	43:BV:65:LEU:N	2.00	0.76
43:BV:27:LYS:O	43:BV:70:TYR:HB2	1.85	0.76
47:BZ:54:GLY:O	47:BZ:56:ASP:N	2.16	0.76
47:BZ:45:PHE:HB3	47:BZ:59:LEU:HD11	1.67	0.76
47:BZ:68:GLU:OE2	47:BZ:82:ARG:HB2	1.85	0.76
1:AA:1064:G:H1'	1:AA:1066:C:N3	2.00	0.76
1:AA:1182:G:OP1	1:AA:1184:G:H4'	1.84	0.76
1:AA:1364:U:O2'	1:AA:1365:G:OP1	2.04	0.76
1:AA:322:C:O2'	1:AA:323:U:H5'	1.85	0.76
1:AA:44:G:C6	1:AA:399:G:C6	2.74	0.76
4:AE:178:ARG:NH2	4:AE:196:LEU:O	2.18	0.76
4:AE:96:ARG:H	4:AE:96:ARG:HD2	1.49	0.76
8:AI:37:VAL:HA	8:AI:65:VAL:CG1	2.15	0.76
15:AP:11:ARG:HG3	15:AP:12:ASN:N	2.01	0.76
15:AP:96:LEU:O	15:AP:98:VAL:HG23	1.86	0.76
17:AR:7:GLU:HA	17:AR:10:LYS:HG2	1.67	0.76
17:AR:26:GLU:CD	17:AR:26:GLU:N	2.39	0.76
17:AR:36:ILE:CD1	17:AR:63:ARG:HD3	2.16	0.76
19:AT:67:LYS:HA	19:AT:70:ARG:CZ	2.15	0.76
20:AU:72:ARG:HA	20:AU:75:ILE:HD12	1.68	0.76
21:AV:40:ILE:HG12	21:AV:71:LEU:HD23	1.68	0.76
49:B2:8:LEU:HD12	49:B2:31:LEU:O	1.85	0.76
50:B3:27:THR:CG2	50:B3:28:LYS:N	2.48	0.76
24:BA:469:G:C2	53:B6:40:TRP:HZ2	2.03	0.76
24:BA:1204:A:N6	29:BF:187:VAL:HG23	2.01	0.76
24:BA:1315:C:H2'	24:BA:1316:U:C6	2.20	0.76
24:BA:1375:C:H2'	24:BA:1376:C:H6	1.48	0.76
24:BA:1448:G:H5''	24:BA:1543:A:N1	2.00	0.76
24:BA:1613:G:C3'	24:BA:1614:A:H5'	2.15	0.76
24:BA:226:G:N2	24:BA:227:A:N3	2.33	0.76
27:BD:136:ILE:HG22	27:BD:138:VAL:N	1.99	0.76
27:BD:14:ARG:O	27:BD:16:MET:N	2.19	0.76
27:BD:61:LEU:HD22	27:BD:63:ARG:HH12	1.51	0.76
28:BE:71:GLY:O	28:BE:72:VAL:HG13	1.84	0.76
28:BE:53:PRO:HG3	28:BE:75:VAL:HG22	1.68	0.76
29:BF:131:GLY:O	29:BF:133:ASN:N	2.18	0.76
29:BF:18:ARG:NH1	29:BF:20:LEU:CD1	2.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:4:VAL:CG1	29:BF:20:LEU:CD1	2.64	0.76
30:BG:32:PRO:HG2	30:BG:172:LEU:HD22	1.65	0.76
31:BH:25:LYS:HE2	31:BH:32:GLU:HG3	1.66	0.76
34:BM:95:PRO:O	34:BM:98:VAL:HB	1.86	0.76
35:BN:97:ARG:NE	35:BN:98:VAL:N	2.31	0.76
37:BP:6:ARG:CB	37:BP:44:ALA:HB3	2.11	0.76
37:BP:75:THR:HG23	37:BP:91:GLU:OE2	1.85	0.76
24:BA:1278:A:H5'	38:BQ:24:GLN:HE21	1.50	0.76
43:BV:5:ALA:HB3	43:BV:105:VAL:HG13	1.68	0.76
45:BX:95:LYS:HG3	45:BX:103:GLY:HA2	1.66	0.76
32:BK:114:LEU:HA	32:BK:130:TYR:CB	2.14	0.76
32:BK:66:GLU:HG3	32:BK:69:LYS:HE2	1.67	0.76
26:BC:32:LEU:HD13	26:BC:220:PRO:HG2	1.67	0.76
4:AE:131:PRO:HB2	4:AE:134:GLU:HG2	1.67	0.76
1:AA:1068:G:O2'	1:AA:1069:C:H5'	1.86	0.76
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.85	0.76
1:AA:22:G:H2'	1:AA:23:C:C6	2.19	0.76
1:AA:279:A:N3	1:AA:281:G:N2	2.34	0.76
2:AC:75:C:N4	24:BA:2451:A:H4'	2.00	0.76
6:AG:26:CYS:O	6:AG:33:MET:HG3	1.84	0.76
9:AJ:66:VAL:HG12	9:AJ:70:LYS:HE2	1.67	0.76
48:B1:18:LYS:O	48:B1:22:GLU:HG2	1.86	0.76
24:BA:1483:G:N3	24:BA:1483:G:H2'	2.01	0.76
24:BA:1513:C:C4	24:BA:1514:U:O4	2.39	0.76
24:BA:1664:A:H2'	24:BA:1665:A:N7	2.01	0.76
24:BA:1956:U:C2	24:BA:1957:C:C5	2.73	0.76
24:BA:1995:U:C5	24:BA:1996:C:C5	2.73	0.76
24:BA:2876:G:OP1	40:BS:2:ASN:CB	2.32	0.76
24:BA:673:C:H2'	24:BA:674:G:C5'	2.16	0.76
24:BA:693:C:O2'	24:BA:694:U:H5'	1.85	0.76
27:BD:10:THR:HB	27:BD:11:PRO:HD3	1.66	0.76
27:BD:129:ASN:O	27:BD:193:VAL:CG2	2.33	0.76
28:BE:119:ARG:NH2	28:BE:155:LYS:HB3	2.00	0.76
24:BA:1665:A:C5'	35:BN:65:THR:HG22	2.14	0.76
24:BA:2685:G:C4'	35:BN:67:LYS:HZ2	1.98	0.76
36:BO:35:HIS:O	36:BO:36:LYS:NZ	2.19	0.76
36:BO:46:LYS:CG	36:BO:50:ARG:HB2	2.15	0.76
40:BS:105:LEU:CG	40:BS:106:SER:H	1.99	0.76
40:BS:48:ILE:HG12	40:BS:50:ILE:HG12	1.68	0.76
41:BT:99:ALA:HB2	41:BT:106:PHE:CD2	2.20	0.76
42:BU:20:LEU:HD22	42:BU:95:LEU:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:122:ARG:O	46:BY:124:ILE:N	2.19	0.76
46:BY:45:ASP:C	46:BY:49:ARG:HD2	2.05	0.76
47:BZ:19:LYS:NZ	47:BZ:41:ARG:NE	2.32	0.76
26:BC:22:ILE:HD13	26:BC:190:ARG:NH1	2.01	0.76
26:BC:58:VAL:HG21	26:BC:201:PRO:HD3	1.68	0.76
1:AA:109:A:N7	1:AA:326:G:N3	2.34	0.76
1:AA:1236:A:H5'	1:AA:1305:G:OP1	1.85	0.76
1:AA:1336:C:O2	1:AA:1336:C:H2'	1.85	0.76
1:AA:1464:G:H2'	1:AA:1465:C:C5	2.19	0.76
1:AA:279:A:H1'	1:AA:281:G:C4	2.19	0.76
1:AA:821:G:H2'	1:AA:822:C:H6	1.50	0.76
1:AA:887:G:H2'	1:AA:888:G:H8	1.50	0.76
4:AE:84:GLU:OE2	4:AE:219:VAL:HG21	1.85	0.76
5:AF:11:ARG:CD	5:AF:16:ARG:HH21	1.97	0.76
5:AF:35:GLU:HA	5:AF:38:ARG:HG2	1.67	0.76
6:AG:50:ARG:HH12	6:AG:52:SER:HA	1.48	0.76
8:AI:23:LYS:CA	8:AI:26:ILE:HD12	2.14	0.76
9:AJ:69:VAL:HG11	9:AJ:104:LEU:HD21	1.68	0.76
9:AJ:29:LYS:NZ	9:AJ:102:ARG:HB2	2.00	0.76
10:AK:86:ILE:HB	10:AK:133:LEU:O	1.84	0.76
1:AA:1177:G:P	11:AL:93:ARG:HH21	2.09	0.76
12:AM:6:ILE:HD11	12:AM:72:VAL:CB	2.14	0.76
13:AN:91:ARG:O	13:AN:95:ILE:HG13	1.86	0.76
20:AU:73:ALA:O	20:AU:79:LEU:HD11	1.85	0.76
50:B3:31:ILE:HD13	50:B3:31:ILE:N	1.99	0.76
50:B3:5:ILE:CD1	50:B3:60:GLN:HE22	1.97	0.76
50:B3:6:HIS:HB2	50:B3:7:PRO:HD2	1.67	0.76
36:BO:45:LEU:HD22	54:B7:59:LYS:HD2	1.68	0.76
24:BA:1069:A:H5''	24:BA:1070:A:O5'	1.86	0.76
24:BA:1142:U:H6	24:BA:1142(A):A:H8	1.32	0.76
24:BA:1264:G:C5'	24:BA:1265:A:H5''	2.16	0.76
24:BA:1426:G:N3	24:BA:1573:G:N2	2.33	0.76
24:BA:1430:C:O2'	24:BA:1431:U:H5'	1.85	0.76
24:BA:2305:A:OP2	30:BG:136:ARG:NH2	2.19	0.76
24:BA:2853:C:H2'	24:BA:2854:G:C8	2.19	0.76
24:BA:565:C:OP2	42:BU:80:GLN:O	2.02	0.76
24:BA:680:G:O2'	24:BA:681:G:H5'	1.86	0.76
24:BA:775:G:H5'	24:BA:776:G:OP1	1.85	0.76
24:BA:848:G:N3	24:BA:933:A:N3	2.32	0.76
24:BA:944:G:H5''	24:BA:945:A:C5'	2.16	0.76
27:BD:76:PRO:O	27:BD:98:VAL:HG23	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:60:ASN:CG	28:BE:61:ARG:N	2.39	0.76
28:BE:77:ILE:O	28:BE:78:LEU:HD13	1.86	0.76
29:BF:5:ALA:CB	29:BF:24:LEU:HG	2.16	0.76
30:BG:3:LEU:HD22	30:BG:4:ASP:OD1	1.86	0.76
36:BO:23:PRO:HB2	36:BO:29:LYS:N	2.00	0.76
41:BT:44:ASN:C	41:BT:47:TYR:HB2	2.06	0.76
41:BT:55:ARG:HG3	41:BT:58:ARG:CZ	2.15	0.76
32:BK:113:ARG:O	32:BK:114:LEU:HG	1.86	0.76
3:AD:55:U:O3'	3:AD:57:G:O6	2.02	0.76
32:BK:133:HIS:CG	32:BK:134:PRO:HD2	2.20	0.76
31:BH:110:SER:O	31:BH:112:PRO:HD2	1.84	0.76
1:AA:110:C:H2'	1:AA:111:G:O4'	1.86	0.76
1:AA:1277:C:C4'	1:AA:1282:C:H1'	2.15	0.76
1:AA:1401:G:O2'	1:AA:1402:C:H5'	1.86	0.76
1:AA:891:U:H5	1:AA:906:G:C2	2.04	0.76
5:AF:91:LEU:HD23	5:AF:91:LEU:C	2.06	0.76
7:AH:76:ILE:HG21	7:AH:142:LEU:HD13	1.67	0.76
10:AK:126:LYS:HD2	10:AK:126:LYS:C	2.05	0.76
13:AN:82:VAL:HB	13:AN:108:ILE:HG12	1.67	0.76
14:AO:93:LEU:CD1	14:AO:96:VAL:HG21	2.14	0.76
17:AR:70:LEU:O	17:AR:70:LEU:HD12	1.85	0.76
19:AT:56:VAL:HB	19:AT:78:GLU:HB3	1.67	0.76
24:BA:969:U:OP1	49:B2:17:LYS:HB2	1.85	0.76
49:B2:26:LEU:HD23	49:B2:28:LEU:HD11	1.65	0.76
52:B5:15:GLU:CD	52:B5:21:TYR:HB3	2.06	0.76
54:B7:29:LYS:HB3	54:B7:34:TRP:CH2	2.20	0.76
24:BA:1085:A:H1'	24:BA:1086:A:C4'	2.16	0.76
24:BA:1270:C:H4'	24:BA:1271:G:H5'	1.68	0.76
24:BA:1422:G:H2'	24:BA:1423:G:H8	1.49	0.76
24:BA:1471:A:C8	24:BA:1521:G:C2	2.74	0.76
24:BA:1675:C:O2'	24:BA:1676:A:H5'	1.85	0.76
24:BA:1772:G:N2	24:BA:1774:C:H5'	1.99	0.76
24:BA:186:G:O2'	24:BA:187:G:H5'	1.85	0.76
24:BA:2027:G:H2'	24:BA:2028:U:H6	1.51	0.76
24:BA:2547:U:C3'	24:BA:2548:G:H5''	2.16	0.76
24:BA:2561:A:O2'	35:BN:40:VAL:HG21	1.86	0.76
24:BA:688:U:H5'	24:BA:1780:A:N1	2.00	0.76
24:BA:945:A:C2	24:BA:946:G:H4'	2.21	0.76
27:BD:136:ILE:HG23	27:BD:165:ILE:HG12	1.68	0.76
27:BD:14:ARG:NH1	27:BD:14:ARG:HA	2.01	0.76
28:BE:49:LEU:HD22	28:BE:76:ARG:C	2.06	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:53:THR:HG22	29:BF:87:GLY:O	1.86	0.76
30:BG:36:LYS:HE2	30:BG:38:VAL:CG1	2.08	0.76
31:BH:16:SER:HB3	31:BH:27:LYS:HB2	1.67	0.76
31:BH:13:LYS:HE3	31:BH:80:SER:HA	1.68	0.76
36:BO:60:MET:SD	36:BO:62:LEU:HD13	2.26	0.76
46:BY:100:VAL:CG2	46:BY:137:ILE:HD11	2.16	0.76
32:BK:124:GLY:O	32:BK:144:VAL:HG12	1.86	0.76
32:BK:69:LYS:HD2	32:BK:70:LYS:N	2.00	0.76
26:BC:7:TYR:CD1	26:BC:10:LEU:HB3	2.21	0.76
1:AA:192:U:C2	1:AA:193:C:C5	2.73	0.76
1:AA:34:C:O2'	1:AA:35:G:H5'	1.85	0.76
1:AA:675:A:H2'	1:AA:676:A:C8	2.20	0.76
4:AE:69:LEU:HD13	4:AE:69:LEU:C	2.05	0.76
5:AF:73:PRO:O	5:AF:76:VAL:HB	1.85	0.76
7:AH:87:SER:HB3	7:AH:131:ILE:CG1	2.16	0.76
9:AJ:16:LEU:O	9:AJ:17:VAL:HG23	1.84	0.76
1:AA:582:U:H5'	17:AR:64:ARG:HH21	1.49	0.76
8:AI:62:TRP:HB3	20:AU:35:ARG:HH12	1.51	0.76
49:B2:3:ARG:CZ	49:B2:3:ARG:HB3	2.13	0.76
51:B4:55:ARG:H	51:B4:55:ARG:HE	1.34	0.76
52:B5:20:ASN:CG	52:B5:43:CYS:SG	2.65	0.76
53:B6:38:GLY:O	53:B6:39:ARG:HB2	1.85	0.76
24:BA:1373:A:H2'	24:BA:1374:G:H8	1.51	0.76
24:BA:1419:A:N6	24:BA:1421:G:C2	2.54	0.76
24:BA:1448:G:H4'	24:BA:1543:A:H61	1.48	0.76
24:BA:1363:C:O3'	24:BA:1809:A:C6	2.39	0.76
24:BA:242:G:C8	54:B7:4:MET:HG2	2.20	0.76
24:BA:2616:C:H2'	24:BA:2617:C:C6	2.21	0.76
24:BA:292:C:O5'	24:BA:293:U:O4	2.04	0.76
24:BA:344:G:H2'	24:BA:345:A:C1'	2.16	0.76
24:BA:558:G:OP1	34:BM:112:LEU:HG	1.85	0.76
24:BA:865:C:N4	24:BA:909:A:N6	2.32	0.76
24:BA:972:G:N7	24:BA:973:A:N7	2.34	0.76
25:BB:30:C:C2'	25:BB:31:C:H5'	2.15	0.76
27:BD:69:ARG:NH2	27:BD:130:ALA:HB2	2.01	0.76
28:BE:5:LEU:HD13	28:BE:196:VAL:HG23	1.68	0.76
30:BG:37:VAL:CG1	30:BG:159:VAL:HG12	2.16	0.76
36:BO:49:ARG:HG3	54:B7:52:LYS:CG	2.16	0.76
37:BP:22:LYS:C	37:BP:99:PRO:HG3	2.06	0.76
37:BP:75:THR:HB	37:BP:77:LYS:HE3	1.68	0.76
38:BQ:17:ARG:CG	38:BQ:18:LEU:N	2.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:63:ARG:NH1	38:BQ:80:PHE:CD2	2.53	0.76
41:BT:102:GLU:HB3	41:BT:105:VAL:CB	2.15	0.76
41:BT:53:ARG:O	41:BT:56:ASP:HB2	1.86	0.76
24:BA:974(A):C:OP1	42:BU:79:VAL:HG11	1.85	0.76
42:BU:64:HIS:HA	42:BU:97:LYS:HD3	1.68	0.76
43:BV:13:SER:C	43:BV:16:LYS:NZ	2.40	0.76
46:BY:116:VAL:CG2	46:BY:145:GLU:HG2	2.15	0.76
26:BC:74:VAL:HG21	26:BC:156:ILE:HD13	1.66	0.76
24:BA:1581:G:O2'	24:BA:1582:C:H5'	1.84	0.76
1:AA:1135:U:H4'	1:AA:1136:U:H5	1.51	0.76
1:AA:1234:C:H5'	1:AA:1364:U:O2'	1.85	0.76
1:AA:186:C:O2'	1:AA:186(A):C:H5'	1.86	0.76
1:AA:507:C:OP2	1:AA:508:C:H3'	1.86	0.76
1:AA:65:U:H4'	1:AA:66:G:C5'	2.15	0.76
1:AA:683:G:H2'	1:AA:684:A:C8	2.21	0.76
1:AA:764:C:C3'	1:AA:765:G:C8	2.69	0.76
1:AA:800:G:C8	1:AA:800:G:O5'	2.37	0.76
5:AF:173:VAL:HG12	5:AF:175:LEU:HD12	1.67	0.76
6:AG:152:SER:O	6:AG:154:ASN:N	2.18	0.76
6:AG:160:GLN:O	6:AG:163:GLU:HB3	1.85	0.76
13:AN:15:ALA:O	13:AN:79:SER:HB3	1.85	0.76
18:AS:42:ARG:C	18:AS:43:LYS:HD2	2.06	0.76
20:AU:61:LYS:O	20:AU:65:ILE:HG12	1.86	0.76
20:AU:74:ARG:CA	20:AU:79:LEU:HD21	2.16	0.76
20:AU:74:ARG:HG3	20:AU:79:LEU:CD2	2.15	0.76
20:AU:77:GLY:C	20:AU:79:LEU:HD12	2.06	0.76
22:AW:91:LEU:HD23	22:AW:91:LEU:H	1.52	0.76
52:B5:16:CYS:SG	52:B5:19:ARG:NH1	2.59	0.76
54:B7:30:ARG:NH2	54:B7:43:GLN:C	2.40	0.76
24:BA:1487:G:H2'	24:BA:1488:G:H8	1.49	0.76
24:BA:1566:A:O2'	24:BA:1567:A:OP1	2.05	0.76
24:BA:1797:C:H2'	24:BA:1798:U:C6	2.21	0.76
24:BA:1799:G:C6	24:BA:1819:A:N7	2.54	0.76
24:BA:1829:A:H5''	24:BA:1830:C:H5	1.50	0.76
24:BA:2218:G:H4'	27:BD:186:HIS:CE1	2.21	0.76
24:BA:2226:C:O2'	27:BD:262:ARG:HD3	1.85	0.76
24:BA:2236:C:N4	24:BA:2237:G:C2	2.53	0.76
24:BA:2557:G:H2'	24:BA:2558:C:H6	1.47	0.76
24:BA:270(R):G:H2'	24:BA:270(S):G:H8	1.48	0.76
24:BA:270(Z):U:C3'	24:BA:271(A):C:H5''	2.16	0.76
24:BA:289:A:C2'	24:BA:351:G:H22	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:745:G:O5'	24:BA:745:G:C8	2.39	0.76
24:BA:904:C:H2'	24:BA:905:U:C6	2.21	0.76
25:BB:101:A:H2'	25:BB:102:G:H8	1.50	0.76
27:BD:51:VAL:HB	27:BD:52:ARG:CZ	2.16	0.76
28:BE:133:LYS:HD2	28:BE:137:HIS:CB	2.16	0.76
28:BE:100:GLU:HB2	28:BE:172:VAL:HG11	1.67	0.76
28:BE:25:VAL:HG23	28:BE:182:LEU:O	1.86	0.76
29:BF:194:MET:HE2	29:BF:195:ASP:H	1.51	0.76
29:BF:34:TRP:CD1	29:BF:38:ARG:NH1	2.52	0.76
24:BA:2562:U:C1'	35:BN:23:ARG:HH21	1.99	0.76
36:BO:7:ARG:N	36:BO:7:ARG:HD2	2.01	0.76
38:BQ:96:ARG:O	38:BQ:114:VAL:HG13	1.85	0.76
38:BQ:97:VAL:C	38:BQ:98:LEU:HG	2.03	0.76
39:BR:38:GLN:HE21	39:BR:40:ILE:HD11	1.48	0.76
39:BR:9:ARG:NH1	39:BR:9:ARG:CB	2.44	0.76
41:BT:42:ALA:O	41:BT:45:TYR:HB2	1.86	0.76
47:BZ:11:ARG:NH1	47:BZ:11:ARG:HB3	2.01	0.76
47:BZ:41:ARG:HB3	47:BZ:41:ARG:HH11	1.49	0.76
3:AD:61:C:O2'	3:AD:62:C:H5'	1.86	0.76
24:BA:132:G:H5'	24:BA:133:C:OP2	1.86	0.76
39:BR:56:LEU:HD11	39:BR:59:LYS:HD2	1.67	0.76
1:AA:1246:C:O2'	1:AA:1247:U:H5'	1.86	0.75
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.22	0.75
1:AA:15:G:H4'	7:AH:24:ARG:NH2	2.00	0.75
1:AA:674:G:H1	1:AA:716:A:N6	1.84	0.75
1:AA:690:G:N3	1:AA:690:G:H2'	2.00	0.75
1:AA:781:A:C2'	1:AA:782:A:H5'	2.15	0.75
3:AD:6:G:H2'	3:AD:7:G:H8	1.49	0.75
6:AG:125:HIS:HB3	6:AG:152:SER:CB	2.16	0.75
1:AA:551:U:H5'	14:AO:119:LYS:NZ	2.00	0.75
15:AP:88:ARG:HG2	15:AP:98:VAL:CG1	2.15	0.75
52:B5:19:ARG:HH22	52:B5:41:PRO:CG	1.98	0.75
53:B6:33:ARG:O	53:B6:37:LYS:HB2	1.86	0.75
54:B7:30:ARG:HD2	54:B7:44:LYS:CD	2.10	0.75
24:BA:1061:U:H4'	24:BA:1070:A:O2'	1.85	0.75
24:BA:1286:A:N3	24:BA:1329:U:C4	2.53	0.75
24:BA:1492:G:N3	24:BA:1493:C:N4	2.33	0.75
24:BA:1718:G:H2'	24:BA:1725:G:H8	1.50	0.75
24:BA:1858:G:N2	24:BA:1859:A:H62	1.84	0.75
24:BA:220:G:O6	24:BA:427:U:H3'	1.87	0.75
24:BA:2447:G:C8	24:BA:2500:U:H3'	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2512:C:OP1	28:BE:122:PHE:HB3	1.86	0.75
24:BA:2807:G:N2	24:BA:2808:U:C6	2.54	0.75
24:BA:558:G:H2'	24:BA:559:G:H5''	1.69	0.75
28:BE:100:GLU:H	28:BE:172:VAL:CG2	1.95	0.75
28:BE:37:ARG:O	28:BE:38:THR:HB	1.86	0.75
28:BE:45:THR:HG21	28:BE:79:ARG:CZ	2.15	0.75
28:BE:92:THR:CA	28:BE:95:ILE:HB	2.16	0.75
29:BF:12:LEU:HD22	29:BF:142:TRP:CH2	2.21	0.75
24:BA:674:G:H4'	29:BF:74:ARG:CZ	2.15	0.75
30:BG:139:LEU:HD22	30:BG:142:PRO:CA	2.16	0.75
31:BH:153:LYS:N	31:BH:154:PRO:HD2	2.00	0.75
34:BM:97:ARG:O	34:BM:100:GLU:CB	2.33	0.75
36:BO:128:HIS:CB	36:BO:147:LEU:HD21	2.16	0.75
35:BN:106:LEU:HD21	40:BS:38:ASN:ND2	2.01	0.75
24:BA:1155:A:P	41:BT:58:ARG:HH12	2.09	0.75
41:BT:56:ASP:C	41:BT:60:LEU:HD13	2.06	0.75
42:BU:62:LEU:HD11	42:BU:98:GLU:HG2	1.67	0.75
44:BW:12:VAL:HG11	44:BW:27:THR:OG1	1.86	0.75
3:AD:64:C:C2	3:AD:65:U:C5	2.74	0.75
26:BC:75:LEU:HD22	26:BC:110:PHE:CZ	2.21	0.75
1:AA:1226:C:O2'	1:AA:1227:A:OP1	2.02	0.75
1:AA:1413:A:O2'	1:AA:1414:U:H5'	1.86	0.75
1:AA:174:C:H2'	1:AA:175:C:C6	2.19	0.75
1:AA:255:G:H1'	19:AT:16:GLN:NE2	2.01	0.75
1:AA:576:G:C8	1:AA:881:G:H1'	2.21	0.75
1:AA:894:G:C4	1:AA:895:G:C8	2.74	0.75
2:AC:19:G:H3'	2:AC:20:U:O4	1.86	0.75
4:AE:27:LYS:C	4:AE:194:PRO:HG2	2.06	0.75
4:AE:91:PRO:CG	4:AE:155:LEU:H	2.00	0.75
8:AI:20:ALA:O	8:AI:24:GLU:HG3	1.86	0.75
9:AJ:35:LYS:HG2	9:AJ:37:ASN:ND2	1.97	0.75
10:AK:14:ARG:O	10:AK:18:ARG:HD2	1.86	0.75
10:AK:80:ILE:HD12	10:AK:80:ILE:H	1.50	0.75
14:AO:51:ALA:C	14:AO:52:LEU:HD23	2.06	0.75
18:AS:21:VAL:HG13	18:AS:36:ILE:HD11	1.66	0.75
19:AT:43:LEU:C	19:AT:43:LEU:HD13	2.05	0.75
22:AW:53:LEU:HB2	22:AW:100:ILE:HG13	1.68	0.75
49:B2:22:ALA:O	49:B2:25:ALA:HB3	1.87	0.75
49:B2:6:VAL:HG22	49:B2:56:VAL:CA	2.04	0.75
49:B2:9:VAL:HG11	49:B2:55:ARG:NH1	2.01	0.75
24:BA:464:U:H4'	53:B6:12:ARG:HH22	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1201:C:C4	24:BA:1241:A:N6	2.54	0.75
24:BA:1312:U:C3'	24:BA:1313:U:H6	1.97	0.75
24:BA:1508:A:H3'	24:BA:1510:A:H8	1.47	0.75
24:BA:1538:G:N2	24:BA:1539:G:N3	2.34	0.75
24:BA:2047:U:O2'	24:BA:2048:G:H5'	1.86	0.75
24:BA:2437:U:H2'	24:BA:2438:U:C5	2.21	0.75
24:BA:2784:C:H1'	28:BE:41:LYS:NZ	2.00	0.75
24:BA:280:C:C5	24:BA:283:A:N6	2.49	0.75
24:BA:2807:G:H22	24:BA:2892:A:N6	1.84	0.75
24:BA:310:A:OP1	45:BX:16:ALA:HB1	1.85	0.75
24:BA:411:G:C8	24:BA:2407:G:OP1	2.39	0.75
24:BA:459:U:H3'	53:B6:40:TRP:CH2	2.21	0.75
24:BA:819:A:C5	24:BA:973:A:H2	2.04	0.75
27:BD:181:GLU:HG2	27:BD:268:ARG:HH21	1.50	0.75
24:BA:1568:G:H5''	27:BD:61:LEU:HA	1.66	0.75
28:BE:118:LYS:O	28:BE:120:TRP:N	2.19	0.75
31:BH:23:ARG:HA	31:BH:37:VAL:HG13	1.67	0.75
33:BL:18:THR:HB	33:BL:34:ILE:HG22	1.67	0.75
35:BN:20:MET:CE	35:BN:44:LYS:HD2	2.16	0.75
36:BO:124:LYS:CB	36:BO:143:GLY:CA	2.59	0.75
37:BP:43:THR:OG1	37:BP:46:GLN:N	2.18	0.75
38:BQ:52:ILE:HD13	38:BQ:56:LYS:HG2	1.67	0.75
28:BE:8:LYS:CD	40:BS:3:ARG:HG3	2.15	0.75
41:BT:13:LYS:HA	41:BT:16:LYS:HZ3	1.48	0.75
41:BT:26:GLY:HA2	41:BT:29:SER:OG	1.86	0.75
32:BK:87:LYS:CE	32:BK:122:GLU:HG2	2.16	0.75
1:AA:1148:U:H2'	1:AA:1148:U:O2	1.86	0.75
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.21	0.75
1:AA:1347:G:H22	1:AA:1373:G:H3'	1.52	0.75
1:AA:64:G:H4'	1:AA:65:U:C5'	2.15	0.75
1:AA:967:C:H6	1:AA:967:C:O5'	1.68	0.75
4:AE:48:MET:HA	4:AE:51:LEU:HD12	1.69	0.75
7:AH:51:VAL:HB	7:AH:52:PRO:CD	2.17	0.75
9:AJ:27:ILE:HG12	9:AJ:43:PHE:CD1	2.22	0.75
11:AL:16:ARG:CG	11:AL:18:PHE:HE1	1.98	0.75
16:AQ:58:LYS:HD3	16:AQ:59:ALA:H	1.49	0.75
17:AR:78:TYR:CE2	17:AR:82:ILE:HD11	2.21	0.75
18:AS:19:ILE:HB	18:AS:37:GLY:O	1.87	0.75
19:AT:5:VAL:CG2	19:AT:60:ILE:HA	2.04	0.75
20:AU:74:ARG:HB3	20:AU:81:PHE:HD2	1.51	0.75
22:AW:49:ALA:HB3	22:AW:99:LEU:CG	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:5:LYS:HZ1	49:B2:59:VAL:HG22	1.49	0.75
24:BA:1483:G:H1'	24:BA:1507:A:N1	2.00	0.75
24:BA:1619:G:N2	24:BA:1620:G:C4	2.55	0.75
24:BA:1838:C:N4	24:BA:1899:G:O5'	2.19	0.75
24:BA:1923:U:H2'	24:BA:1924:C:C6	2.21	0.75
24:BA:20:C:O2'	24:BA:21:A:C5'	2.34	0.75
24:BA:2394:C:P	36:BO:57:THR:HA	2.27	0.75
24:BA:280:C:H4'	24:BA:281:G:OP2	1.84	0.75
24:BA:2821:A:H4'	28:BE:162:ALA:HB2	1.68	0.75
24:BA:612:G:H2'	24:BA:615:G:N3	2.01	0.75
24:BA:625:G:H21	24:BA:653:A:H61	1.34	0.75
24:BA:630:G:H2'	24:BA:631:A:O5'	1.86	0.75
24:BA:805:G:N7	24:BA:2068:U:OP1	2.19	0.75
24:BA:942:G:C2	24:BA:943:U:N3	2.54	0.75
27:BD:118:VAL:H	27:BD:129:ASN:ND2	1.84	0.75
27:BD:92:ILE:HD11	27:BD:104:TYR:CD1	2.21	0.75
31:BH:149:ARG:HA	31:BH:162:ILE:CG2	2.16	0.75
33:BL:33:ASN:O	33:BL:37:PHE:HB2	1.86	0.75
34:BM:35:ARG:CZ	34:BM:48:MET:SD	2.74	0.75
35:BN:4:PRO:CG	35:BN:5:GLN:N	2.47	0.75
41:BT:108:GLU:HA	41:BT:111:GLU:HG2	1.67	0.75
42:BU:67:GLY:CA	42:BU:93:GLU:O	2.34	0.75
26:BC:129:ARG:O	26:BC:130:ILE:HD12	1.85	0.75
1:AA:337:C:H2'	1:AA:338:A:C8	2.22	0.75
27:BD:112:GLN:O	27:BD:115:GLN:HG2	1.87	0.75
1:AA:259:G:H5''	22:AW:83:ARG:HH22	1.51	0.75
1:AA:874:G:C2'	1:AA:875:C:H5'	2.16	0.75
4:AE:23:ARG:HH11	4:AE:24:TRP:N	1.83	0.75
6:AG:173:TRP:HD1	6:AG:185:PHE:HE2	1.34	0.75
7:AH:109:ILE:HG22	7:AH:110:LEU:N	2.01	0.75
8:AI:14:LEU:HD13	8:AI:15:ASP:H	1.51	0.75
9:AJ:94:ARG:HG3	9:AJ:94:ARG:NH1	1.99	0.75
10:AK:82:HIS:O	10:AK:137:VAL:CA	2.32	0.75
10:AK:82:HIS:O	10:AK:137:VAL:HG13	1.86	0.75
22:AW:23:ARG:C	22:AW:26:ASN:HD21	1.89	0.75
50:B3:13:ARG:O	50:B3:14:ILE:HB	1.86	0.75
52:B5:20:ASN:ND2	52:B5:43:CYS:CB	2.50	0.75
54:B7:36:LYS:HB3	54:B7:41:ILE:HD11	1.69	0.75
54:B7:22:VAL:O	54:B7:48:PHE:CG	2.40	0.75
24:BA:109:G:C2	24:BA:110:G:H1'	2.21	0.75
24:BA:1341:U:H2'	24:BA:1342:A:OP1	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1524:G:H2'	24:BA:1525:G:C8	2.18	0.75
24:BA:1570:A:C2	24:BA:1571:A:N7	2.54	0.75
24:BA:2455:G:H2'	24:BA:2456:C:C6	2.21	0.75
24:BA:2749:A:C2	24:BA:2750:A:N6	2.55	0.75
24:BA:624:C:H3'	24:BA:624:C:H6	1.48	0.75
24:BA:764:A:H3'	24:BA:765:G:H5'	1.67	0.75
25:BB:38:C:N3	25:BB:39:A:N7	2.35	0.75
27:BD:239:ARG:CD	27:BD:239:ARG:H	2.00	0.75
27:BD:244:ARG:H	27:BD:245:PRO:HD3	0.70	0.75
27:BD:59:LYS:O	27:BD:59:LYS:NZ	2.20	0.75
30:BG:115:ARG:O	30:BG:117:PHE:N	2.19	0.75
30:BG:79:ASN:OD1	30:BG:82:LEU:HD11	1.86	0.75
31:BH:103:LEU:HD23	31:BH:113:VAL:HG12	1.68	0.75
35:BN:97:ARG:HB3	35:BN:118:ALA:HB2	1.67	0.75
36:BO:76:LYS:HZ3	36:BO:93:GLY:HA2	1.50	0.75
38:BQ:103:ARG:HB2	38:BQ:108:GLY:CA	2.16	0.75
41:BT:26:GLY:HA2	41:BT:29:SER:HG	1.49	0.75
42:BU:6:LYS:HZ3	42:BU:10:LYS:HB3	1.50	0.75
42:BU:18:LEU:HD23	42:BU:18:LEU:H	1.52	0.75
42:BU:5:VAL:HG13	42:BU:38:LEU:O	1.87	0.75
44:BW:26:TYR:CD1	44:BW:89:ILE:HD12	2.20	0.75
46:BY:56:VAL:O	46:BY:57:ILE:O	2.02	0.75
26:BC:73:ARG:NH1	26:BC:73:ARG:HB2	2.00	0.75
25:BB:117:G:C2	25:BB:118:G:C8	2.74	0.75
1:AA:1361:G:N7	1:AA:1362:C:C5	2.54	0.75
1:AA:356:A:O2'	1:AA:357:G:H5'	1.86	0.75
1:AA:355:C:H1'	1:AA:388:G:H2'	1.68	0.75
1:AA:937:A:H1'	1:AA:1379:G:H22	1.50	0.75
1:AA:937:A:H62	1:AA:938:A:N6	1.85	0.75
1:AA:948:C:O2'	1:AA:949:A:H5'	1.86	0.75
5:AF:50:ALA:HB1	5:AF:72:LYS:HB2	1.69	0.75
6:AG:31:CYS:O	6:AG:33:MET:HG2	1.86	0.75
9:AJ:86:GLN:HB2	9:AJ:148:ASN:ND2	2.02	0.75
9:AJ:64:GLN:HB3	9:AJ:128:ALA:CB	2.14	0.75
10:AK:89:PRO:HA	10:AK:92:ARG:HE	1.51	0.75
1:AA:1343:G:O2'	11:AL:121:ARG:HA	1.86	0.75
13:AN:102:GLY:CA	13:AN:105:VAL:HG23	2.16	0.75
14:AO:76:ASN:C	14:AO:77:LEU:HG	2.06	0.75
14:AO:83:VAL:CG2	14:AO:104:VAL:HB	2.17	0.75
1:AA:1329:A:H5'	15:AP:29:ARG:HE	1.51	0.75
15:AP:56:LEU:O	15:AP:59:TYR:HB3	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:40:CYS:N	16:AQ:43:CYS:SG	2.55	0.75
20:AU:47:THR:HB	20:AU:49:LYS:HE3	1.68	0.75
53:B6:35:ARG:HG2	53:B6:42:LEU:HD21	1.68	0.75
53:B6:8:ASN:OD1	53:B6:11:LYS:HB3	1.87	0.75
24:BA:141(A):C:H6	24:BA:141(A):C:O5'	1.69	0.75
24:BA:1655:A:H4'	28:BE:114:ALA:HA	1.69	0.75
24:BA:2014:A:C2'	24:BA:2015:A:H2	1.99	0.75
24:BA:2423:U:H1'	24:BA:2425:A:C8	2.21	0.75
24:BA:2834:G:O6	24:BA:2835:A:C2	2.38	0.75
24:BA:2864:G:H2'	24:BA:2865:U:C5	2.20	0.75
24:BA:29:U:P	24:BA:583:G:H4'	2.27	0.75
24:BA:557:U:O3'	34:BM:112:LEU:HD21	1.87	0.75
24:BA:647:G:H2'	24:BA:648:G:H8	1.48	0.75
28:BE:147:PRO:CD	28:BE:148:GLY:H	1.98	0.75
28:BE:55:ASN:HA	28:BE:58:ARG:HH22	1.51	0.75
29:BF:43:LYS:NZ	29:BF:100:THR:HG22	2.02	0.75
29:BF:44:ARG:HG3	29:BF:45:ARG:H	1.50	0.75
34:BM:22:THR:HG22	34:BM:61:ARG:NH1	2.02	0.75
35:BN:41:ALA:N	35:BN:59:LYS:NZ	2.33	0.75
38:BQ:17:ARG:CB	38:BQ:17:ARG:NH1	2.50	0.75
24:BA:1652:A:OP1	38:BQ:39:PRO:HG2	1.86	0.75
38:BQ:44:LEU:O	38:BQ:48:VAL:HG23	1.86	0.75
39:BR:8:GLU:O	39:BR:9:ARG:C	2.23	0.75
40:BS:18:ASP:CG	40:BS:81:PRO:HG3	2.06	0.75
41:BT:91:ASP:O	41:BT:95:LEU:HD21	1.86	0.75
43:BV:13:SER:O	43:BV:16:LYS:NZ	2.19	0.75
44:BW:24:GLY:O	44:BW:83:VAL:HG22	1.87	0.75
45:BX:42:VAL:H	45:BX:61:ILE:CB	2.00	0.75
24:BA:2111:C:H4'	24:BA:2112:G:OP1	1.85	0.75
24:BA:2114:A:H2'	24:BA:2115:G:O4'	1.87	0.75
26:BC:129:ARG:HG3	26:BC:129:ARG:HH11	1.52	0.75
24:BA:131:G:H2'	24:BA:132:G:C8	2.19	0.75
24:BA:1589:C:H2'	24:BA:1590:U:O4'	1.87	0.75
1:AA:1047:G:H5''	16:AQ:4:LYS:CD	2.07	0.75
1:AA:259:G:H2'	1:AA:260:G:C8	2.21	0.75
1:AA:96:G:H2'	1:AA:97:U:C6	2.22	0.75
4:AE:17:PHE:C	4:AE:42:ILE:HG22	2.07	0.75
6:AG:74:GLN:HA	6:AG:77:ASN:HD22	1.51	0.75
9:AJ:29:LYS:HZ3	9:AJ:102:ARG:HE	1.33	0.75
9:AJ:94:ARG:HG3	9:AJ:94:ARG:HH11	1.51	0.75
13:AN:92:GLU:OE2	13:AN:96:ARG:HB2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:55:VAL:O	14:AO:70:ILE:HD11	1.86	0.75
15:AP:36:LYS:HB3	15:AP:59:TYR:OH	1.87	0.75
22:AW:43:LEU:HD23	22:AW:46:GLU:OE2	1.86	0.75
52:B5:17:LYS:HZ2	52:B5:50:ARG:HB2	1.49	0.75
24:BA:1134:G:O6	24:BA:1136:G:H3'	1.87	0.75
24:BA:1675:C:H2'	24:BA:1676:A:H5'	1.68	0.75
24:BA:175:G:O2'	24:BA:176:G:H5'	1.87	0.75
24:BA:1881:C:H5''	24:BA:1881:C:H6	1.49	0.75
24:BA:2052:G:H1'	28:BE:150:VAL:N	2.02	0.75
24:BA:2259:G:C4'	24:BA:2427:C:H2'	2.17	0.75
24:BA:2489:G:H2'	24:BA:2490:G:C8	2.22	0.75
24:BA:2523:G:C1'	24:BA:2765:A:H62	1.99	0.75
24:BA:2555:U:C6	24:BA:2555:U:C3'	2.67	0.75
24:BA:2612:C:O2	51:B4:4:HIS:CG	2.40	0.75
24:BA:641:C:H2'	24:BA:642:G:C5'	2.16	0.75
24:BA:64:A:C2'	24:BA:65:C:H5'	2.16	0.75
24:BA:813:U:H2'	24:BA:814:C:C6	2.21	0.75
24:BA:900:A:C8	24:BA:901:A:C8	2.74	0.75
25:BB:7:G:C4'	39:BR:29:PHE:HE2	1.97	0.75
27:BD:133:LEU:O	27:BD:136:ILE:HG13	1.86	0.75
27:BD:166:GLN:O	27:BD:174:ILE:HB	1.87	0.75
24:BA:2637:U:C5'	28:BE:43:GLY:HA3	2.16	0.75
29:BF:118:ALA:CB	29:BF:122:LYS:HE2	2.16	0.75
29:BF:19:GLU:CA	29:BF:20:LEU:HD22	2.16	0.75
29:BF:39:TRP:CZ3	29:BF:43:LYS:HD2	2.22	0.75
34:BM:97:ARG:CA	34:BM:100:GLU:HG2	2.15	0.75
34:BM:107:LEU:HD21	34:BM:113:GLY:HA3	1.66	0.75
24:BA:2641:G:OP2	34:BM:83:LYS:HD2	1.85	0.75
35:BN:68:GLU:HA	35:BN:104:ARG:CZ	2.17	0.75
36:BO:85:LEU:HD13	36:BO:86:LYS:HE2	1.68	0.75
36:BO:92:GLU:CD	36:BO:126:VAL:HG13	2.07	0.75
39:BR:26:LEU:HD13	39:BR:28:VAL:H	1.52	0.75
41:BT:74:LEU:HD13	41:BT:78:THR:HG21	1.69	0.75
42:BU:35:LEU:H	42:BU:61:VAL:HG13	1.52	0.75
44:BW:73:ARG:HG2	44:BW:74:PRO:HD2	1.68	0.75
26:BC:95:GLY:HA3	26:BC:99:ILE:CG1	2.16	0.75
25:BB:35:U:H2'	25:BB:36:C:H6	1.51	0.75
1:AA:1144:G:H22	1:AA:1146:A:H62	1.31	0.75
1:AA:1196:U:C5'	1:AA:1197:G:H5'	2.16	0.75
1:AA:1269:A:C8	1:AA:1270:C:H1'	2.22	0.75
1:AA:949:A:H1'	1:AA:1364:U:H3	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:264:U:O2	1:AA:264:U:H2'	1.87	0.75
1:AA:408:A:H2'	1:AA:409:G:C8	2.22	0.75
1:AA:483:C:N4	1:AA:484:G:C2	2.55	0.75
1:AA:66:G:C4'	1:AA:173:U:C4	2.70	0.75
8:AI:12:PRO:HG2	8:AI:13:ASN:HD22	1.48	0.75
8:AI:75:LEU:HD23	8:AI:78:GLU:HB3	1.67	0.75
10:AK:12:ARG:CD	10:AK:26:VAL:HG23	2.15	0.75
17:AR:54:ARG:HE	17:AR:58:MET:CE	2.00	0.75
51:B4:40:LYS:HG2	51:B4:41:PRO:HD2	1.69	0.75
24:BA:1559:G:C8	24:BA:1559:G:H5''	2.21	0.75
24:BA:1899:G:N2	24:BA:1902:C:H41	1.83	0.75
24:BA:2285:C:H1'	24:BA:2288:A:N7	2.01	0.75
24:BA:2348:U:C4	24:BA:2382:G:N2	2.54	0.75
24:BA:2378:A:H5''	24:BA:2379:G:OP2	1.85	0.75
24:BA:2432:A:H62	24:BA:2433:A:N6	1.84	0.75
24:BA:2523:G:H2'	24:BA:2524:G:H5'	1.68	0.75
24:BA:2698:U:N3	24:BA:2699:C:N4	2.35	0.75
24:BA:269:U:C5	24:BA:270(Z):U:OP2	2.40	0.75
24:BA:2713:A:H5''	24:BA:2714:G:OP2	1.86	0.75
24:BA:2718:G:H2'	24:BA:2719:G:C8	2.21	0.75
24:BA:39:C:H2'	24:BA:40:C:H6	1.52	0.75
24:BA:564:C:H42	24:BA:578:A:N6	1.84	0.75
24:BA:675:A:N6	24:BA:803:U:O2	2.19	0.75
24:BA:848:G:H2'	24:BA:849:A:H8	1.51	0.75
28:BE:131:ALA:HB1	28:BE:134:ILE:CD1	2.17	0.75
28:BE:49:LEU:HD12	28:BE:50:GLY:N	2.00	0.75
29:BF:132:VAL:O	29:BF:133:ASN:HB2	1.85	0.75
33:BL:88:ALA:HB3	33:BL:135:GLY:HA3	1.67	0.75
33:BL:17:ALA:O	33:BL:18:THR:HG23	1.86	0.75
24:BA:2686:G:OP1	35:BN:66:LYS:NZ	2.19	0.75
24:BA:832:G:OP1	36:BO:35:HIS:HB2	1.86	0.75
24:BA:2406:U:O2	36:BO:67:MET:HB3	1.86	0.75
37:BP:134:ARG:HH11	37:BP:136:ALA:N	1.85	0.75
37:BP:97:VAL:C	37:BP:98:LYS:HE3	2.06	0.75
39:BR:30:ARG:HD2	39:BR:91:PRO:CB	2.16	0.75
39:BR:95:HIS:CG	39:BR:96:GLY:H	2.03	0.75
40:BS:96:ARG:CG	40:BS:117:ASP:HB3	2.12	0.75
24:BA:581:C:P	41:BT:33:ARG:HH12	2.10	0.75
41:BT:47:TYR:HE2	42:BU:75:PHE:HB3	1.50	0.75
43:BV:13:SER:C	43:BV:16:LYS:HZ1	1.89	0.75
46:BY:128:VAL:HG23	46:BY:164:ALA:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:157:LEU:HD22	46:BY:161:VAL:CG1	2.16	0.75
26:BC:59:ARG:NH1	26:BC:164:ARG:HD3	2.01	0.75
1:AA:1192:C:C6	1:AA:1192:C:C3'	2.60	0.75
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.22	0.75
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.04	0.75
1:AA:1407:C:N3	1:AA:1494:G:N2	2.35	0.75
1:AA:410:G:H1'	1:AA:432:A:N6	2.00	0.75
1:AA:718:G:N7	1:AA:719:C:N4	2.35	0.75
1:AA:781:A:H2'	1:AA:782:A:C5'	2.17	0.75
1:AA:900:A:H2'	1:AA:901:A:H8	1.52	0.75
4:AE:16:HIS:CE1	4:AE:210:SER:HA	2.22	0.75
7:AH:39:GLY:O	7:AH:69:VAL:HG23	1.86	0.75
7:AH:96:PRO:O	7:AH:98:THR:N	2.20	0.75
9:AJ:64:GLN:HG3	9:AJ:128:ALA:O	1.87	0.75
15:AP:50:GLU:O	15:AP:54:VAL:HG23	1.87	0.75
20:AU:53:ARG:NH2	20:AU:60:GLY:N	2.35	0.75
52:B5:25:LYS:HE2	54:B7:35:GLN:CB	2.17	0.75
52:B5:7:ILE:C	52:B5:9:LEU:H	1.90	0.75
24:BA:1314:C:O2'	24:BA:1315:C:H5'	1.86	0.75
24:BA:1858:G:N2	24:BA:1859:A:N6	2.35	0.75
24:BA:2283:C:C6	24:BA:2389:G:N3	2.54	0.75
24:BA:2779:U:H6	24:BA:2779:U:O5'	1.70	0.75
24:BA:293:U:H6	24:BA:293:U:H3'	1.50	0.75
24:BA:659:C:O2'	24:BA:660:G:H5'	1.86	0.75
24:BA:747:U:O2'	24:BA:748:G:OP1	2.05	0.75
24:BA:898:C:H3'	24:BA:899:A:H5''	1.69	0.75
25:BB:50:G:H2'	25:BB:50:G:N3	1.99	0.75
27:BD:120:GLY:H	27:BD:131:LEU:HD13	1.52	0.75
28:BE:151:TYR:CE1	28:BE:153:GLY:N	2.55	0.75
28:BE:173:VAL:CG2	28:BE:174:ASP:N	2.49	0.75
24:BA:675:A:H4'	29:BF:67:GLN:OE1	1.86	0.75
30:BG:173:LEU:CD1	30:BG:176:LEU:HD12	2.11	0.75
31:BH:103:LEU:HB3	31:BH:113:VAL:O	1.86	0.75
31:BH:132:ARG:H	31:BH:132:ARG:HD3	1.51	0.75
35:BN:18:LYS:NZ	35:BN:44:LYS:HD3	2.00	0.75
37:BP:124:LYS:HE2	37:BP:125:LEU:CA	2.17	0.75
37:BP:6:ARG:HH21	37:BP:8:LYS:H	1.31	0.75
43:BV:3:ALA:O	43:BV:106:ILE:HG13	1.86	0.75
46:BY:95:PRO:CB	46:BY:131:ARG:H	1.99	0.75
46:BY:29:TYR:O	46:BY:89:PHE:HA	1.86	0.75
1:AA:1004:A:H2'	1:AA:1036:G:C6	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1402:C:H2'	1:AA:1403:C:H6	1.50	0.75
1:AA:15:G:H2'	1:AA:16:A:H8	1.48	0.75
1:AA:173:U:H4'	1:AA:197:A:N3	2.02	0.75
1:AA:263:A:H2'	1:AA:264:U:C5'	2.05	0.75
1:AA:299:G:H2'	1:AA:300:A:C8	2.22	0.75
1:AA:301:G:N2	1:AA:302:G:H1'	2.00	0.75
1:AA:858:G:H22	1:AA:869:G:C3'	2.00	0.75
1:AA:923:A:H2'	1:AA:924:C:C6	2.21	0.75
2:AC:31:G:OP1	11:AL:127:LYS:HE3	1.86	0.75
4:AE:17:PHE:CD1	4:AE:18:GLY:N	2.52	0.75
4:AE:28:PHE:CE1	4:AE:31:TYR:CB	2.70	0.75
5:AF:193:TYR:HD2	5:AF:193:TYR:H	1.35	0.75
5:AF:88:ARG:NE	5:AF:101:LEU:H	1.84	0.75
6:AG:38:TYR:HB2	6:AG:39:PRO:HD2	1.68	0.75
20:AU:56:THR:HB	20:AU:58:LEU:HD12	1.69	0.75
21:AV:46:GLY:H	21:AV:62:ILE:HG23	1.52	0.75
53:B6:28:ARG:HA	53:B6:31:LEU:CD1	2.15	0.75
55:B8:33:LYS:HB3	55:B8:35:ARG:HE	1.51	0.75
24:BA:1027:A:H61	24:BA:1126:A:H1'	1.51	0.75
24:BA:1449:A:C2	24:BA:1449(A):G:H1'	2.22	0.75
24:BA:1445:C:N3	24:BA:1466:G:N2	2.33	0.75
24:BA:1617:C:C4'	24:BA:1617:C:OP2	2.34	0.75
24:BA:1363:C:O3'	24:BA:1809:A:N6	2.20	0.75
24:BA:1813:G:O2'	27:BD:52:ARG:NH2	2.20	0.75
24:BA:2051:A:C6	24:BA:2614:A:C5	2.74	0.75
24:BA:2437:U:H2'	24:BA:2438:U:C6	2.21	0.75
24:BA:270(A):A:C5'	24:BA:270(B):A:OP2	2.35	0.75
24:BA:2832:U:C1'	24:BA:2834:G:H21	1.99	0.75
24:BA:323:G:H2'	29:BF:170:LEU:CB	2.14	0.75
24:BA:662:G:H5'	36:BO:17:LYS:N	2.01	0.75
24:BA:935:C:H2'	24:BA:936:C:C6	2.22	0.75
27:BD:23:GLU:O	27:BD:23:GLU:CD	2.25	0.75
29:BF:6:VAL:CA	29:BF:20:LEU:HD13	2.15	0.75
29:BF:43:LYS:HZ2	29:BF:100:THR:HG22	1.52	0.75
29:BF:46:ARG:NH1	29:BF:47:GLY:H	1.85	0.75
31:BH:130:ARG:O	31:BH:131:VAL:HG23	1.86	0.75
32:BK:2:LYS:NZ	32:BK:44:LEU:HD11	2.02	0.75
28:BE:18:ASP:CB	35:BN:72:PRO:HA	2.14	0.75
37:BP:111:GLU:CB	37:BP:113:GLN:HE21	1.99	0.75
40:BS:2:ASN:O	40:BS:5:ALA:HB3	1.87	0.75
40:BS:62:THR:CG2	40:BS:79:HIS:HA	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:13:LYS:O	41:BT:16:LYS:HB3	1.87	0.75
47:BZ:47:PRO:HG3	47:BZ:59:LEU:CD2	2.16	0.75
24:BA:2122:U:C2'	24:BA:2123:G:H5''	2.17	0.75
1:AA:1026:G:N7	1:AA:1027:C:C5	2.55	0.75
4:AE:127:ILE:HG22	4:AE:128:GLU:H	1.52	0.75
40:BS:40:THR:O	40:BS:40:THR:HG22	1.85	0.75
1:AA:1405:G:O4'	1:AA:1519:A:H4'	1.86	0.74
1:AA:946:A:C2'	1:AA:947:G:H8	1.91	0.74
1:AA:407:G:O4'	6:AG:119:GLN:OE1	2.05	0.74
6:AG:59:ARG:NH1	6:AG:59:ARG:CA	2.46	0.74
7:AH:86:ALA:O	7:AH:125:SER:CB	2.35	0.74
9:AJ:20:ASP:HB3	9:AJ:23:VAL:HG23	1.69	0.74
1:AA:686:U:O2	13:AN:42:TRP:HZ2	1.70	0.74
14:AO:56:ALA:HB2	14:AO:70:ILE:HG12	1.67	0.74
15:AP:90:LEU:O	15:AP:93:ARG:N	2.20	0.74
21:AV:50:ALA:HA	21:AV:58:VAL:O	1.86	0.74
23:AX:21:TYR:O	23:AX:22:ARG:HB2	1.85	0.74
24:BA:1264:G:O6	24:BA:1265:A:N6	2.19	0.74
24:BA:141:A:H1'	24:BA:1408:C:O4'	1.87	0.74
24:BA:1508:A:H5''	24:BA:1510:A:C8	2.22	0.74
24:BA:1595:G:C2	24:BA:1596:A:H1'	2.22	0.74
24:BA:1695:G:H1'	27:BD:15:PHE:HB3	1.69	0.74
24:BA:1825:A:C6	24:BA:1826:G:O6	2.40	0.74
24:BA:1928:A:C3'	24:BA:1929:G:H5'	2.15	0.74
24:BA:1935:G:H2'	24:BA:1962:C:C4	2.22	0.74
24:BA:2052:G:H2'	24:BA:2053:G:C8	2.21	0.74
24:BA:2434:A:C2'	24:BA:2435:A:H5''	2.17	0.74
2:AC:75:C:H5	24:BA:2451:A:HO2'	1.33	0.74
24:BA:2506:U:O2'	24:BA:2507:C:C5'	2.35	0.74
24:BA:2777:G:H4'	24:BA:2778:A:O5'	1.85	0.74
24:BA:225:A:H62	24:BA:419:C:H4'	1.51	0.74
24:BA:431:U:H2'	24:BA:431:U:O2	1.86	0.74
24:BA:491:G:C2	24:BA:492:A:H1'	2.22	0.74
24:BA:544:C:H2'	24:BA:545:G:O4'	1.87	0.74
24:BA:962:G:C2'	24:BA:963:U:H6	1.96	0.74
25:BB:33:G:H2'	25:BB:34:U:H6	1.51	0.74
25:BB:44:G:H5''	25:BB:45:A:OP1	1.86	0.74
27:BD:157:ARG:HH11	27:BD:178:PRO:HG3	1.52	0.74
27:BD:53:PHE:CG	27:BD:221:VAL:HG22	2.22	0.74
24:BA:2822:G:H5''	28:BE:113:PHE:HZ	1.52	0.74
28:BE:91:VAL:HG22	28:BE:93:VAL:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:82:ILE:O	29:BF:83:PHE:HB3	1.87	0.74
30:BG:86:MET:H	30:BG:87:PRO:HD2	1.50	0.74
35:BN:66:LYS:HG3	35:BN:67:LYS:CE	2.17	0.74
36:BO:114:ILE:HG21	36:BO:123:LEU:CD1	2.16	0.74
37:BP:130:LYS:HG2	37:BP:131:ILE:H	1.52	0.74
43:BV:18:ARG:HB2	43:BV:18:ARG:HH21	1.51	0.74
45:BX:46:LYS:HD3	45:BX:58:GLY:CA	2.16	0.74
46:BY:82:ARG:HG2	46:BY:83:PRO:CD	2.17	0.74
32:BK:66:GLU:HA	32:BK:69:LYS:CG	2.16	0.74
14:AO:72:GLY:HA3	14:AO:102:ARG:HD2	1.68	0.74
1:AA:274:A:O2'	1:AA:275:G:C1'	2.35	0.74
1:AA:278:G:O2'	1:AA:282:A:H1'	1.87	0.74
1:AA:517:G:H5'	1:AA:519:C:C4	2.22	0.74
1:AA:553:A:H2'	1:AA:554:C:H6	1.48	0.74
1:AA:20:U:C6	1:AA:572:A:C2	2.75	0.74
1:AA:76:G:H2'	1:AA:77:C:C6	2.22	0.74
4:AE:97:TRP:CZ2	4:AE:102:LEU:HD13	2.20	0.74
4:AE:178:ARG:HD3	4:AE:196:LEU:HD13	1.67	0.74
9:AJ:43:PHE:O	9:AJ:46:ALA:HB3	1.86	0.74
10:AK:85:ARG:HG2	10:AK:85:ARG:HH11	1.52	0.74
11:AL:118:LYS:HB2	11:AL:121:ARG:CB	2.17	0.74
50:B3:28:LYS:CB	50:B3:29:PRO:HD2	2.15	0.74
50:B3:42:PHE:HB2	50:B3:58:ARG:NH1	2.02	0.74
53:B6:21:ARG:CG	53:B6:31:LEU:HD21	2.16	0.74
24:BA:120:U:H2'	24:BA:120:U:O2	1.85	0.74
24:BA:1650:G:H5'	38:BQ:104:ARG:NH2	2.01	0.74
24:BA:1664:A:C8	24:BA:1665:A:C5	2.74	0.74
24:BA:1699:G:C8	24:BA:1763:G:N2	2.55	0.74
24:BA:1725:G:C5	24:BA:1741:C:N4	2.55	0.74
24:BA:1819:A:OP2	27:BD:157:ARG:NE	2.20	0.74
24:BA:1824:G:H2'	24:BA:1825:A:O4'	1.85	0.74
24:BA:2284:C:C5'	52:B5:9:LEU:HG	2.17	0.74
24:BA:2284:C:H5''	52:B5:9:LEU:HG	1.69	0.74
24:BA:2415:G:P	36:BO:61:ARG:HD2	2.27	0.74
24:BA:271(B):G:H5''	24:BA:271(C):U:O4'	1.87	0.74
24:BA:2761:G:C2'	24:BA:2762:G:H5'	2.16	0.74
24:BA:387:U:H2'	24:BA:387:U:O2	1.85	0.74
24:BA:586:A:C6	24:BA:1254:A:N1	2.55	0.74
24:BA:629:G:H5''	24:BA:649:G:O2'	1.86	0.74
24:BA:949:C:H2'	24:BA:950:G:H8	1.53	0.74
25:BB:88:C:C4	25:BB:89:G:N3	2.54	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:73:VAL:HB	27:BD:121:PRO:CD	2.17	0.74
27:BD:133:LEU:O	27:BD:135:PHE:N	2.19	0.74
27:BD:155:LEU:HA	27:BD:157:ARG:NH2	2.01	0.74
27:BD:157:ARG:O	27:BD:158:ALA:O	2.05	0.74
28:BE:136:ARG:C	28:BE:137:HIS:ND1	2.41	0.74
28:BE:165:VAL:HG12	28:BE:166:THR:N	1.99	0.74
29:BF:118:ALA:O	29:BF:122:LYS:HB2	1.87	0.74
29:BF:36:VAL:HG11	29:BF:183:VAL:HG11	1.68	0.74
29:BF:158:THR:HB	29:BF:195:ASP:CB	2.17	0.74
30:BG:113:ARG:HG2	30:BG:139:LEU:CA	2.16	0.74
33:BL:37:PHE:HE2	33:BL:65:PHE:HB2	1.49	0.74
34:BM:54:VAL:O	34:BM:55:VAL:HG23	1.87	0.74
35:BN:98:VAL:HG12	35:BN:122:LEU:HD23	1.69	0.74
36:BO:113:LYS:HD3	36:BO:113:LYS:C	2.06	0.74
37:BP:6:ARG:HH21	37:BP:8:LYS:N	1.85	0.74
37:BP:81:VAL:CG1	37:BP:82:ARG:H	1.90	0.74
24:BA:1275:A:N3	38:BQ:12:ARG:NH2	2.35	0.74
42:BU:5:VAL:HG12	42:BU:37:VAL:HG22	1.68	0.74
47:BZ:23:VAL:HA	47:BZ:38:VAL:HG12	1.67	0.74
26:BC:113:VAL:HG11	26:BC:136:LEU:O	1.87	0.74
24:BA:1495:A:C6	24:BA:1496:A:N6	2.54	0.74
24:BA:2094:G:N2	24:BA:2196:C:HI'	2.01	0.74
1:AA:1205:U:H4'	5:AF:195:VAL:CG1	2.16	0.74
1:AA:1346:A:C2	9:AJ:10:ARG:HD3	2.21	0.74
1:AA:300:A:H2'	1:AA:301:G:H5'	1.68	0.74
1:AA:373:A:H2'	1:AA:374:A:H8	1.52	0.74
1:AA:703:G:O5'	1:AA:703:G:H8	1.70	0.74
2:AC:44:A:N1	2:AC:45:G:N3	2.34	0.74
5:AF:130:VAL:O	5:AF:134:ILE:HD13	1.87	0.74
6:AG:190:ASP:O	6:AG:194:LEU:HD23	1.85	0.74
10:AK:112:LEU:HB2	10:AK:133:LEU:HA	1.69	0.74
10:AK:6:ILE:HD12	10:AK:85:ARG:NH1	2.02	0.74
13:AN:68:ALA:HA	13:AN:71:LYS:HD3	1.69	0.74
14:AO:32:PHE:CB	14:AO:84:LEU:HD21	2.17	0.74
18:AS:32:TYR:HE2	18:AS:35:LYS:CB	2.00	0.74
20:AU:74:ARG:HA	20:AU:79:LEU:CD1	2.17	0.74
21:AV:36:ARG:HA	21:AV:71:LEU:HD13	1.68	0.74
22:AW:49:ALA:O	22:AW:53:LEU:HG	1.86	0.74
49:B2:40:THR:O	49:B2:44:ARG:CB	2.35	0.74
54:B7:23:VAL:HG22	54:B7:47:LYS:C	2.08	0.74
24:BA:1112:G:H2'	24:BA:1113:U:H5	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:141(A):C:O2'	24:BA:142:G:H5'	1.88	0.74
24:BA:1471:A:OP2	24:BA:1472:A:H2	1.70	0.74
24:BA:2085:C:O2'	24:BA:2086:U:H5'	1.87	0.74
24:BA:2349:G:H3'	24:BA:2350:C:H5''	1.68	0.74
24:BA:2607:G:C2'	24:BA:2608:G:H5'	2.17	0.74
24:BA:2821:A:O2'	24:BA:2822:G:H5'	1.87	0.74
24:BA:2831:G:O2'	24:BA:2883:A:H2'	1.85	0.74
24:BA:569:U:O5'	24:BA:570:G:OP2	2.05	0.74
24:BA:893:C:H2'	24:BA:894:C:C6	2.20	0.74
24:BA:2052:G:C4	28:BE:150:VAL:HG23	2.22	0.74
28:BE:30:PRO:HG2	28:BE:90:THR:CG2	2.16	0.74
29:BF:165:ARG:HB2	29:BF:165:ARG:HH21	1.49	0.74
35:BN:103:ALA:O	35:BN:105:GLU:N	2.20	0.74
37:BP:22:LYS:HE3	37:BP:23:GLY:H	1.53	0.74
37:BP:65:PHE:N	37:BP:105:GLU:OE2	2.20	0.74
43:BV:20:VAL:HG13	43:BV:21:VAL:N	2.03	0.74
43:BV:25:ARG:HG2	43:BV:71:VAL:HG21	1.68	0.74
45:BX:13:VAL:O	45:BX:70:SER:N	2.18	0.74
45:BX:86:ARG:O	45:BX:91:GLU:HG2	1.86	0.74
32:BK:97:ILE:HG22	32:BK:101:LEU:HD23	1.69	0.74
24:BA:2130:U:H1'	24:BA:2134:A:OP1	1.86	0.74
1:AA:1415:G:O2'	1:AA:1416:G:H5'	1.87	0.74
1:AA:186(A):C:H1'	22:AW:104:LEU:CD2	2.13	0.74
1:AA:572:A:O5'	1:AA:573:A:P	2.45	0.74
1:AA:714:G:H1'	1:AA:777:A:C8	2.22	0.74
1:AA:968:A:H4'	1:AA:969:A:OP2	1.87	0.74
4:AE:149:LEU:O	4:AE:149:LEU:HD23	1.87	0.74
5:AF:8:ILE:HG21	16:AQ:50:LYS:O	1.87	0.74
8:AI:53:ALA:HB2	8:AI:86:ARG:HD2	1.70	0.74
8:AI:33:TYR:HB2	8:AI:75:LEU:HD12	1.69	0.74
9:AJ:137:LYS:O	9:AJ:140:ASP:HB2	1.87	0.74
10:AK:40:ALA:O	10:AK:43:GLY:N	2.19	0.74
11:AL:79:LEU:CD1	11:AL:101:PHE:HB3	2.15	0.74
13:AN:41:THR:HB	13:AN:71:LYS:CE	2.13	0.74
50:B3:68:ARG:HB2	50:B3:68:ARG:NH1	2.02	0.74
54:B7:6:THR:OG1	54:B7:8:LYS:HB2	1.87	0.74
24:BA:1375:C:H2'	24:BA:1376:C:C6	2.21	0.74
24:BA:1472:A:O2'	24:BA:1473:G:C8	2.40	0.74
24:BA:1528:A:N7	24:BA:1529:A:C6	2.56	0.74
24:BA:1566:A:O2'	24:BA:1567:A:H5'	1.86	0.74
24:BA:1918:A:OP2	24:BA:1918:A:C8	2.39	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2426:A:H3'	24:BA:2427:C:C5'	2.17	0.74
24:BA:325:G:H2'	24:BA:326:G:C8	2.22	0.74
24:BA:467:G:O2'	24:BA:468:G:H5'	1.85	0.74
24:BA:261:G:C4'	24:BA:608:A:C2	2.70	0.74
24:BA:716:A:H2'	24:BA:717:G:C5'	2.18	0.74
27:BD:208:LYS:HB3	27:BD:211:ARG:HB2	1.69	0.74
24:BA:2787:C:H5''	28:BE:64:LYS:HD2	1.69	0.74
29:BF:158:THR:CG2	29:BF:196:LEU:H	1.98	0.74
29:BF:168:ARG:NH2	29:BF:169:ASN:N	2.27	0.74
29:BF:202:PHE:HD2	29:BF:205:ARG:HD2	1.51	0.74
33:BL:7:VAL:HG12	33:BL:58:THR:CG2	2.17	0.74
35:BN:95:GLY:O	35:BN:117:LEU:HD12	1.87	0.74
35:BN:97:ARG:HE	35:BN:98:VAL:HG22	1.52	0.74
36:BO:78:PRO:HG2	36:BO:117:GLU:OE1	1.87	0.74
38:BQ:101:ALA:O	38:BQ:102:GLU:HB2	1.87	0.74
39:BR:9:ARG:HB2	39:BR:9:ARG:HH11	1.47	0.74
35:BN:77:ILE:CG1	40:BS:75:ILE:HD12	2.11	0.74
34:BM:37:LYS:HD2	41:BT:63:VAL:HG11	1.69	0.74
41:BT:63:VAL:O	41:BT:64:ARG:C	2.26	0.74
42:BU:36:PRO:N	42:BU:61:VAL:HG22	2.03	0.74
44:BW:47:PHE:CZ	44:BW:92:LEU:HD11	2.22	0.74
32:BK:66:GLU:O	32:BK:69:LYS:HG3	1.85	0.74
26:BC:212:VAL:H	26:BC:223:ARG:NE	1.85	0.74
26:BC:78:ALA:HB2	26:BC:116:THR:OG1	1.88	0.74
1:AA:173:U:C5'	1:AA:197:A:C1'	2.62	0.74
1:AA:190:G:OP1	1:AA:190:G:H8	1.71	0.74
4:AE:184:VAL:C	4:AE:198:ASP:HB2	2.06	0.74
4:AE:189:ASP:OD1	4:AE:205:ASP:OD1	2.05	0.74
6:AG:102:ASP:HB2	6:AG:136:PRO:CA	2.18	0.74
13:AN:48:ILE:HD11	13:AN:64:ALA:HA	1.69	0.74
13:AN:54:ARG:NH1	13:AN:54:ARG:HG3	2.01	0.74
14:AO:28:LYS:HD2	14:AO:33:ARG:NH2	2.02	0.74
14:AO:28:LYS:HG3	14:AO:33:ARG:HH12	1.53	0.74
52:B5:16:CYS:HB3	52:B5:49:HIS:ND1	2.02	0.74
54:B7:23:VAL:HG13	54:B7:47:LYS:O	1.87	0.74
24:BA:1279:G:H2'	24:BA:1280:G:C8	2.23	0.74
24:BA:1316:U:H2'	24:BA:1317:A:C8	2.22	0.74
24:BA:142:G:H2'	24:BA:143:C:C6	2.23	0.74
24:BA:1729:A:H8	24:BA:1730:U:O4'	1.70	0.74
24:BA:1788:C:C4	24:BA:1789:A:C8	2.75	0.74
24:BA:1917:U:C6	24:BA:1917:U:C3'	2.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1994:C:C2'	24:BA:1995:U:H5'	2.17	0.74
24:BA:2034:U:H2'	24:BA:2034:U:O2	1.86	0.74
24:BA:2063:C:C3'	24:BA:2064:C:H5''	2.16	0.74
24:BA:2459:A:C5	24:BA:2493:U:O4	2.40	0.74
24:BA:2625:G:H3'	24:BA:2626:C:C5	2.22	0.74
24:BA:270(P):C:H2'	24:BA:270(Q):C:C6	2.21	0.74
24:BA:670:A:H4'	24:BA:671:C:C5'	2.17	0.74
24:BA:709:U:H2'	24:BA:710:G:H8	1.50	0.74
24:BA:761:A:H5''	24:BA:762:U:OP1	1.88	0.74
25:BB:114:G:H2'	25:BB:115:G:O4'	1.87	0.74
25:BB:52:A:H2'	25:BB:53:A:H5'	1.69	0.74
27:BD:5:LYS:HA	27:BD:28:GLU:C	2.08	0.74
28:BE:14:ILE:H	28:BE:14:ILE:HD12	1.52	0.74
28:BE:8:LYS:HD3	28:BE:9:VAL:N	2.02	0.74
24:BA:320:A:H3'	29:BF:136:THR:HG1	1.53	0.74
30:BG:125:PHE:O	30:BG:126:ASP:CB	2.32	0.74
30:BG:56:ALA:O	30:BG:59:GLU:HG3	1.88	0.74
2:AC:19:G:N2	30:BG:82:LEU:HD12	2.02	0.74
31:BH:103:LEU:N	31:BH:115:VAL:HG12	2.02	0.74
34:BM:85:ILE:CG2	34:BM:89:LYS:HD3	2.16	0.74
38:BQ:79:LEU:CG	38:BQ:80:PHE:N	2.48	0.74
39:BR:28:VAL:HB	39:BR:101:LEU:HG	1.69	0.74
42:BU:6:LYS:NZ	42:BU:10:LYS:HB3	2.02	0.74
42:BU:27:ALA:HB2	42:BU:35:LEU:HD13	1.70	0.74
43:BV:35:ILE:HG13	51:B4:28:PRO:HD2	1.67	0.74
45:BX:74:PRO:HB2	45:BX:101:LYS:N	2.02	0.74
46:BY:171:ILE:O	46:BY:171:ILE:HD12	1.88	0.74
32:BK:93:THR:CG2	32:BK:96:ASP:H	2.01	0.74
26:BC:134:ARG:O	26:BC:134:ARG:HG2	1.85	0.74
1:AA:101:A:O2'	1:AA:102:G:H5'	1.85	0.74
1:AA:1200:C:H3'	1:AA:1201:A:C5'	2.15	0.74
1:AA:1403:C:C1'	1:AA:1500:A:N1	2.50	0.74
1:AA:306:G:H2'	1:AA:307:C:H6	1.48	0.74
1:AA:510:A:O2'	1:AA:542:G:O2'	2.05	0.74
1:AA:610:G:N2	1:AA:611:A:H1'	2.03	0.74
1:AA:643:C:H5'	10:AK:31:PHE:CE1	2.22	0.74
1:AA:828:A:N6	1:AA:858:G:O2'	2.20	0.74
3:AD:73:A:H2	3:AD:74:C:O4'	1.71	0.74
10:AK:9:MET:O	10:AK:10:LEU:C	2.26	0.74
15:AP:64:TRP:O	15:AP:65:LYS:HG3	1.85	0.74
1:AA:1309:G:OP1	15:AP:88:ARG:NH1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:333:G:H4'	22:AW:16:HIS:NE2	2.02	0.74
50:B3:18:CYS:H	50:B3:33:VAL:CG2	2.01	0.74
55:B8:15:LYS:O	55:B8:25:VAL:HA	1.87	0.74
24:BA:1061:U:C5'	24:BA:1070:A:H4'	2.16	0.74
24:BA:1249:U:H2'	24:BA:1250:G:O4'	1.88	0.74
24:BA:2277:G:O3'	37:BP:14:ARG:HG3	1.88	0.74
24:BA:312:G:O4'	24:BA:312:G:OP1	2.05	0.74
24:BA:50:U:H3'	24:BA:50:U:H6	1.52	0.74
24:BA:774:A:H5'	24:BA:778:G:C4'	2.17	0.74
24:BA:976:C:C5'	24:BA:1156:A:N6	2.51	0.74
27:BD:106:ILE:HB	27:BD:108:PRO:HD3	1.67	0.74
27:BD:151:LYS:HB2	27:BD:154:LYS:NZ	2.01	0.74
28:BE:4:ILE:HG23	28:BE:30:PRO:HB3	1.69	0.74
29:BF:149:ASP:C	29:BF:172:TRP:HE1	1.90	0.74
31:BH:85:LYS:HD3	31:BH:145:ALA:CB	2.17	0.74
24:BA:1005:C:H6	34:BM:28:THR:HG21	1.52	0.74
35:BN:16:ALA:CB	35:BN:45:GLU:HB2	2.16	0.74
35:BN:59:LYS:HB3	35:BN:85:VAL:HA	1.68	0.74
35:BN:8:LEU:HD12	35:BN:8:LEU:H	1.51	0.74
36:BO:97:PRO:CA	36:BO:102:ARG:CZ	2.65	0.74
24:BA:2000:G:OP2	38:BQ:2:ARG:HA	1.88	0.74
38:BQ:54:LEU:HD12	38:BQ:54:LEU:N	2.02	0.74
39:BR:41:ASP:CG	39:BR:42:ASP:N	2.40	0.74
41:BT:58:ARG:HG3	41:BT:59:ARG:HG2	1.70	0.74
45:BX:12:THR:HG23	45:BX:73:ARG:CG	2.15	0.74
45:BX:47:LYS:HB2	45:BX:56:PRO:CB	2.17	0.74
46:BY:4:ARG:NH1	46:BY:37:VAL:HB	2.02	0.74
1:AA:1189:C:H5''	5:AF:5:ILE:CG1	2.13	0.74
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.03	0.74
1:AA:1431:C:O2'	1:AA:1432:G:H5'	1.88	0.74
1:AA:1529:G:H4'	1:AA:1530:G:OP2	1.88	0.74
1:AA:250:A:H4'	1:AA:251:G:O5'	1.87	0.74
1:AA:728:A:H8	17:AR:54:ARG:NH2	1.84	0.74
1:AA:93:U:H2'	1:AA:95:G:C8	2.22	0.74
2:AC:6:G:H2'	2:AC:7:G:H8	1.52	0.74
3:AD:71:G:H2'	3:AD:72:C:C6	2.23	0.74
4:AE:115:LEU:HD13	4:AE:145:LEU:CB	2.08	0.74
7:AH:56:GLN:N	7:AH:56:GLN:HE21	1.85	0.74
9:AJ:111:ARG:NH1	9:AJ:111:ARG:HB3	2.02	0.74
20:AU:43:PHE:C	20:AU:51:LEU:HD13	2.07	0.74
21:AV:18:LYS:CA	21:AV:18:LYS:HE3	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:333:G:H4'	22:AW:16:HIS:CD2	2.23	0.74
1:AA:186(B):C:H4'	22:AW:89:ARG:NH1	2.02	0.74
50:B3:56:VAL:CG1	50:B3:57:GLU:H	1.90	0.74
54:B7:15:LYS:C	54:B7:22:VAL:HG22	2.08	0.74
24:BA:1023:U:P	24:BA:1025:G:N1	2.60	0.74
24:BA:1177:A:H2'	24:BA:1178:C:C5	2.23	0.74
24:BA:1265:A:N3	24:BA:1265:A:H2'	2.01	0.74
24:BA:1392:A:C6	24:BA:1393:A:N6	2.55	0.74
24:BA:143:C:H2'	24:BA:144:C:C6	2.23	0.74
24:BA:1517:G:C2	24:BA:1518:C:H1'	2.22	0.74
24:BA:1668:A:H61	24:BA:1993:U:H1'	1.50	0.74
24:BA:2075:U:C2'	24:BA:2076:U:H5''	2.16	0.74
24:BA:2468:G:H22	24:BA:2481:G:H2'	1.48	0.74
24:BA:2587:A:H2'	24:BA:2588:G:H5'	1.68	0.74
24:BA:2603:G:OP2	47:BZ:1:MET:HB2	1.87	0.74
24:BA:728:G:H1'	24:BA:729:G:H8	1.47	0.74
27:BD:120:GLY:C	27:BD:131:LEU:HD11	2.07	0.74
24:BA:1790:C:OP2	27:BD:222:ARG:HD2	1.87	0.74
27:BD:181:GLU:HA	27:BD:270:ILE:HG21	1.68	0.74
27:BD:46:GLN:NE2	27:BD:52:ARG:NH2	2.36	0.74
24:BA:1567:A:C2	27:BD:86:PRO:HG3	2.23	0.74
28:BE:133:LYS:HB3	28:BE:137:HIS:CD2	2.21	0.74
29:BF:176:LEU:HG	29:BF:178:PRO:HD2	1.70	0.74
30:BG:105:LYS:HZ3	30:BG:139:LEU:HD13	1.51	0.74
31:BH:11:VAL:HB	31:BH:50:VAL:CG1	2.16	0.74
31:BH:87:LEU:O	31:BH:131:VAL:O	2.05	0.74
33:BL:61:ALA:C	33:BL:63:ARG:H	1.89	0.74
36:BO:15:ARG:HH21	36:BO:15:ARG:HG3	1.52	0.74
37:BP:26:TYR:H	37:BP:102:VAL:HB	1.49	0.74
37:BP:111:GLU:CG	37:BP:113:GLN:HE21	1.99	0.74
37:BP:137:TYR:CE1	46:BY:124:ILE:HD12	2.22	0.74
37:BP:20:ALA:HB1	37:BP:98:LYS:HD2	1.69	0.74
41:BT:96:ALA:O	41:BT:100:VAL:HG13	1.87	0.74
41:BT:33:ARG:HB2	41:BT:33:ARG:CZ	2.14	0.74
42:BU:69:LYS:HE2	42:BU:70:ILE:CD1	2.18	0.74
45:BX:13:VAL:HG23	45:BX:14:LEU:H	1.52	0.74
45:BX:82:PRO:CG	45:BX:97:ARG:H	1.99	0.74
45:BX:9:LYS:HG3	45:BX:28:LYS:HZ2	1.53	0.74
3:AD:9:A:H5''	3:AD:10:G:OP2	1.88	0.74
26:BC:10:LEU:CG	26:BC:220:PRO:HG3	2.15	0.74
1:AA:747:C:H2'	1:AA:748:C:C1'	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1210:C:H2'	1:AA:1211:U:C6	2.23	0.74
1:AA:1252:A:C6	1:AA:1253:G:N7	2.56	0.74
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.53	0.74
1:AA:1501:C:H2'	1:AA:1504:G:O6	1.86	0.74
1:AA:34:C:H2'	1:AA:35:G:H8	1.51	0.74
5:AF:147:LYS:HB2	5:AF:203:PHE:CD2	2.22	0.74
5:AF:82:GLU:OE1	5:AF:83:ARG:N	2.18	0.74
6:AG:126:ILE:O	6:AG:126:ILE:HG22	1.87	0.74
1:AA:540:G:H21	6:AG:42:GLN:NE2	1.85	0.74
6:AG:78:LEU:HD11	6:AG:96:LEU:CB	2.16	0.74
7:AH:79:GLU:CG	7:AH:93:PRO:HD2	2.17	0.74
8:AI:6:VAL:HG12	8:AI:63:TYR:O	1.88	0.74
9:AJ:132:GLY:O	9:AJ:136:LYS:CB	2.31	0.74
9:AJ:75:VAL:CG2	9:AJ:88:PRO:HB3	2.17	0.74
12:AM:6:ILE:HG22	12:AM:98:ILE:CG1	2.17	0.74
14:AO:41:ARG:HH12	14:AO:57:LYS:HE3	1.51	0.74
14:AO:57:LYS:HG2	14:AO:67:THR:HG22	1.68	0.74
15:AP:84:ILE:HG13	15:AP:85:GLY:H	1.53	0.74
18:AS:73:LEU:HD13	18:AS:73:LEU:C	2.07	0.74
50:B3:58:ARG:HG3	50:B3:58:ARG:HH11	1.51	0.74
24:BA:1107:G:N2	24:BA:1108:U:H1'	2.03	0.74
24:BA:1156:A:OP1	41:BT:55:ARG:NE	2.21	0.74
24:BA:1205:U:O2'	24:BA:1206:G:N7	2.19	0.74
24:BA:1206:G:C2'	24:BA:1207:C:O4'	2.35	0.74
24:BA:1483:G:H1'	24:BA:1507:A:C2	2.22	0.74
24:BA:1944:U:C6	24:BA:1944:U:C3'	2.70	0.74
24:BA:2208:U:H1'	24:BA:2217:G:H1	1.53	0.74
24:BA:2384:G:OP2	24:BA:2384:G:H8	1.71	0.74
24:BA:2394:C:N4	24:BA:2422:A:H61	1.85	0.74
24:BA:2259:G:H4'	24:BA:2427:C:H2'	1.68	0.74
24:BA:2832:U:C1'	24:BA:2834:G:N2	2.49	0.74
24:BA:428:A:H3'	24:BA:429:A:H8	1.52	0.74
24:BA:618(A):C:N4	24:BA:619:G:H21	1.86	0.74
24:BA:626:U:H4'	24:BA:653:A:C2	2.22	0.74
24:BA:760:G:H2'	24:BA:761:A:O4'	1.86	0.74
24:BA:764:A:N6	24:BA:1789:A:C2	2.55	0.74
24:BA:829:A:OP1	24:BA:831:G:H1'	1.87	0.74
24:BA:974:G:O4'	24:BA:1187:G:H1'	1.87	0.74
27:BD:246:PRO:HG3	27:BD:252:TRP:HE3	1.51	0.74
28:BE:173:VAL:HG13	28:BE:184:VAL:HA	1.69	0.74
29:BF:154:VAL:HA	29:BF:191:ARG:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:85:LYS:HD3	31:BH:145:ALA:HB2	1.70	0.74
33:BL:18:THR:N	33:BL:38:VAL:HG21	2.03	0.74
34:BM:34:LEU:HD22	34:BM:116:LEU:CD2	2.14	0.74
34:BM:69:GLN:CD	34:BM:87:LEU:HD22	2.07	0.74
38:BQ:5:LYS:HZ1	38:BQ:6:SER:C	1.91	0.74
44:BW:26:TYR:HB2	44:BW:28:PHE:HZ	1.53	0.74
47:BZ:66:VAL:O	47:BZ:68:GLU:OE1	2.04	0.74
1:AA:748:C:C6	1:AA:748:C:O5'	2.41	0.74
24:BA:2246:G:N2	24:BA:2247:A:C4	2.55	0.74
1:AA:1129:C:O2	1:AA:1131:G:O6	2.06	0.74
1:AA:171:A:O2'	1:AA:172:A:H5'	1.88	0.74
1:AA:563:A:H1'	1:AA:566:G:O2'	1.87	0.74
1:AA:909:A:C2'	1:AA:910:C:H5'	2.17	0.74
7:AH:63:ARG:O	7:AH:66:MET:HG2	1.88	0.74
9:AJ:69:VAL:CG1	9:AJ:104:LEU:HD21	2.16	0.74
1:AA:684:A:H4'	13:AN:12:ARG:HH12	1.52	0.74
1:AA:691:G:O6	13:AN:55:LYS:HE2	1.87	0.74
14:AO:53:ARG:HB3	14:AO:69:TYR:CE1	2.21	0.74
14:AO:85:ILE:CD1	14:AO:98:TYR:HB3	2.13	0.74
19:AT:40:LYS:HB3	19:AT:42:TYR:HE1	1.51	0.74
49:B2:15:TYR:O	49:B2:20:LYS:NZ	2.21	0.74
24:BA:1152:C:O2'	24:BA:1153:C:H5'	1.88	0.74
24:BA:973:A:HO2'	24:BA:1188:U:H5	0.75	0.74
24:BA:1275:A:N6	24:BA:1295:C:O2'	2.21	0.74
24:BA:1556:C:H2'	24:BA:1557:C:H6	1.53	0.74
24:BA:1823:G:C2	24:BA:1824:G:C8	2.75	0.74
24:BA:2408:U:O2	24:BA:2409:G:N7	2.21	0.74
24:BA:2472:G:C2'	24:BA:2475:C:H42	2.00	0.74
24:BA:2687:U:H2'	24:BA:2687:U:O2	1.88	0.74
24:BA:2709:G:O2'	24:BA:2710:C:H5'	1.88	0.74
24:BA:503:A:C4	24:BA:505:A:N7	2.55	0.74
24:BA:730:C:H5'	24:BA:761:A:OP1	1.88	0.74
24:BA:811:U:O2'	24:BA:1251:C:H1'	1.88	0.74
27:BD:159:ALA:O	27:BD:161:THR:HG23	1.87	0.74
29:BF:38:ARG:NH1	36:BO:10:PRO:N	2.36	0.74
30:BG:102:PHE:HD2	30:BG:106:LEU:CD1	1.99	0.74
30:BG:47:LYS:HZ2	30:BG:73:ALA:HB3	1.53	0.74
31:BH:150:ALA:O	31:BH:152:ARG:N	2.21	0.74
31:BH:33:LEU:HD22	31:BH:75:ALA:CB	2.18	0.74
35:BN:37:ASP:H	35:BN:61:VAL:HB	1.52	0.74
35:BN:41:ALA:H	35:BN:59:LYS:HZ3	1.36	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:666:G:H5'	36:BO:45:LEU:CD1	2.17	0.74
37:BP:101:ARG:HG3	37:BP:101:ARG:NH1	2.01	0.74
39:BR:30:ARG:HD2	39:BR:91:PRO:HB3	1.69	0.74
39:BR:8:GLU:O	39:BR:11:LYS:N	2.21	0.74
40:BS:113:LYS:O	40:BS:114:LEU:C	2.25	0.74
40:BS:15:VAL:HG13	40:BS:81:PRO:CB	2.17	0.74
41:BT:89:GLU:CG	42:BU:52:VAL:HG23	2.17	0.74
46:BY:168:GLU:CG	46:BY:169:GLU:H	1.98	0.74
32:BK:127:VAL:HG13	32:BK:140:LEU:C	2.07	0.74
1:AA:1004:A:H5''	1:AA:1025:U:C5	2.23	0.74
1:AA:1005:A:H1'	1:AA:1036:G:N2	2.02	0.74
1:AA:1214:C:O2'	1:AA:1215:G:OP1	2.03	0.74
1:AA:1259:C:O2	1:AA:1283:G:H1'	1.87	0.74
1:AA:321:A:H5'	1:AA:1435:G:O2'	1.88	0.74
1:AA:517:G:N2	1:AA:533:A:OP2	2.21	0.74
1:AA:818:G:C3'	1:AA:819:A:H5''	2.18	0.74
4:AE:234:PRO:O	4:AE:238:LEU:HD22	1.88	0.74
5:AF:123:GLN:HB3	5:AF:128:PHE:CE2	2.23	0.74
5:AF:52:LEU:HA	5:AF:70:VAL:HG22	1.70	0.74
7:AH:57:LYS:HG2	7:AH:61:TYR:HE2	1.53	0.74
9:AJ:113:GLU:OE1	9:AJ:118:VAL:HG12	1.88	0.74
11:AL:67:GLY:N	11:AL:73:GLN:HE21	1.86	0.74
17:AR:31:LEU:HA	17:AR:34:LEU:CD2	2.16	0.74
19:AT:57:VAL:HG23	19:AT:58:GLU:N	2.01	0.74
19:AT:67:LYS:HA	19:AT:70:ARG:HH22	1.52	0.74
19:AT:97:SER:O	19:AT:98:LEU:HD13	1.87	0.74
21:AV:52:TYR:OH	21:AV:55:LYS:HA	1.88	0.74
22:AW:39:LYS:O	22:AW:42:GLN:HB2	1.88	0.74
50:B3:38:LYS:O	50:B3:39:CYS:HB2	1.88	0.74
24:BA:179:G:H5'	53:B6:32:LYS:HZ1	1.53	0.74
24:BA:1014:U:O2'	24:BA:1015:G:H5'	1.88	0.74
24:BA:1093:G:H21	24:BA:1098:A:N6	1.85	0.74
24:BA:1206:G:H2'	24:BA:1207:C:C4'	2.18	0.74
24:BA:1419:A:N7	24:BA:1421:G:C6	2.55	0.74
24:BA:144:C:C2'	24:BA:145:G:H5'	2.18	0.74
24:BA:1604:C:H2'	24:BA:1604:C:O2	1.87	0.74
24:BA:1718:G:N2	24:BA:1742:C:C4	2.56	0.74
24:BA:2207:C:H3'	24:BA:2208:U:H5''	1.70	0.74
24:BA:2320:A:OP2	24:BA:2320:A:H8	1.71	0.74
24:BA:1782:C:H41	24:BA:2587:A:H62	1.30	0.74
24:BA:2654:A:H1'	24:BA:2656:U:C4	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2746:U:O4	24:BA:2756:U:C5	2.40	0.74
24:BA:2839:G:H2'	24:BA:2840:C:H6	1.53	0.74
24:BA:28:A:C2	24:BA:29:U:C1'	2.71	0.74
24:BA:407:G:H2'	24:BA:408:G:C8	2.23	0.74
24:BA:462:C:C2	24:BA:468:G:N2	2.55	0.74
24:BA:566:U:H2'	24:BA:567:A:C8	2.22	0.74
25:BB:29:A:C4	25:BB:56:G:N2	2.56	0.74
27:BD:24:ILE:HG22	27:BD:25:THR:N	2.00	0.74
28:BE:105:THR:OG1	28:BE:106:GLY:N	2.18	0.74
24:BA:2053:G:C4'	28:BE:145:LYS:HZ1	2.01	0.74
28:BE:102:VAL:HG23	28:BE:200:GLU:OE1	1.87	0.74
29:BF:122:LYS:NZ	29:BF:122:LYS:HA	2.02	0.74
29:BF:194:MET:CE	29:BF:200:GLU:HG2	2.18	0.74
30:BG:43:LEU:HD11	30:BG:89:GLY:HA2	1.70	0.74
41:BT:102:GLU:C	41:BT:105:VAL:HG12	2.07	0.74
42:BU:35:LEU:C	42:BU:61:VAL:HG13	2.08	0.74
45:BX:12:THR:CG2	45:BX:70:SER:O	2.35	0.74
45:BX:84:ARG:HB2	45:BX:93:GLY:O	1.87	0.74
46:BY:102:LEU:CD2	46:BY:137:ILE:HD12	2.15	0.74
47:BZ:42:GLY:O	47:BZ:57:PHE:CD2	2.41	0.74
47:BZ:65:GLY:HA3	47:BZ:81:VAL:HG12	1.68	0.74
1:AA:1087:G:H2'	1:AA:1088:G:C8	2.23	0.73
1:AA:1113:C:O2'	1:AA:1114:C:H5'	1.88	0.73
1:AA:235:C:H2'	1:AA:236:G:H8	1.52	0.73
1:AA:594:G:C5	1:AA:595:G:N3	2.55	0.73
1:AA:730:G:N7	1:AA:731:G:H1'	2.03	0.73
1:AA:787:A:H2'	1:AA:788:U:C5'	2.17	0.73
2:AC:62:C:C2'	2:AC:63:G:O5'	2.36	0.73
4:AE:213:LEU:CD2	4:AE:214:ILE:HD13	2.16	0.73
4:AE:40:HIS:C	4:AE:41:ILE:HD12	2.08	0.73
5:AF:118:GLN:O	5:AF:121:ALA:HB3	1.88	0.73
6:AG:57:ARG:HH22	7:AH:107:ARG:CD	1.98	0.73
9:AJ:87:VAL:HG21	9:AJ:154:TYR:HB2	1.70	0.73
11:AL:49:PRO:HD3	11:AL:78:LYS:HZ3	1.50	0.73
13:AN:84:VAL:HG21	13:AN:110:ASP:HA	1.69	0.73
14:AO:117:ARG:HH22	14:AO:124:LYS:CG	2.01	0.73
14:AO:84:LEU:HB3	14:AO:104:VAL:CG1	2.14	0.73
16:AQ:27:CYS:H	16:AQ:43:CYS:CB	2.01	0.73
22:AW:13:LEU:CD1	22:AW:13:LEU:H	1.91	0.73
48:B1:20:VAL:CB	48:B1:55:LEU:HD23	2.18	0.73
48:B1:48:LEU:HD12	48:B1:51:GLN:HE22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:17:ASP:O	51:B4:21:SER:OG	2.06	0.73
24:BA:1625:C:O5'	24:BA:1625:C:H6	1.71	0.73
24:BA:1638:C:H5''	24:BA:2710:C:O2'	1.88	0.73
24:BA:1717:G:N2	24:BA:1718:G:N3	2.35	0.73
24:BA:1706:U:N3	24:BA:1757:U:H5''	2.02	0.73
24:BA:1800:C:C6	24:BA:1800:C:C3'	2.68	0.73
24:BA:2212:A:H2'	24:BA:2212:A:N3	2.02	0.73
24:BA:2859:G:H2'	24:BA:2860:A:H8	1.50	0.73
24:BA:675:A:C4	24:BA:676:A:C2	2.76	0.73
28:BE:197:ILE:HB	28:BE:199:ARG:NH2	2.02	0.73
31:BH:104:GLU:HB3	31:BH:105:LEU:HD12	1.68	0.73
31:BH:11:VAL:HG11	31:BH:45:VAL:CG1	2.18	0.73
32:BK:3:VAL:O	32:BK:18:VAL:HA	1.88	0.73
33:BL:56:GLU:O	33:BL:67:PHE:HB3	1.87	0.73
38:BQ:83:ILE:HG23	38:BQ:86:ARG:NE	2.03	0.73
39:BR:71:ARG:O	39:BR:74:ALA:HB3	1.87	0.73
40:BS:55:ASN:HA	40:BS:62:THR:O	1.88	0.73
46:BY:98:MET:SD	46:BY:100:VAL:HG13	2.27	0.73
24:BA:2118:U:OP1	24:BA:2147:G:N1	2.21	0.73
26:BC:102:LYS:HB3	26:BC:107:TRP:HE3	1.53	0.73
24:BA:2183:C:C2	24:BA:2184:G:N7	2.56	0.73
24:BA:2098:U:H2'	24:BA:2099:U:C6	2.23	0.73
1:AA:1302:U:H2'	1:AA:1303:C:H5'	1.67	0.73
1:AA:1376:U:H3	1:AA:1377:A:N6	1.84	0.73
1:AA:1483:A:O2'	1:AA:1484:C:H5'	1.87	0.73
1:AA:1495:U:O2'	1:AA:1496:C:H5'	1.88	0.73
1:AA:878:G:H2'	1:AA:879:C:H6	1.50	0.73
2:AC:19:G:H21	30:BG:82:LEU:HD12	1.51	0.73
7:AH:35:GLY:HA3	7:AH:41:VAL:CG1	2.18	0.73
1:AA:728:A:C8	17:AR:54:ARG:CZ	2.70	0.73
18:AS:67:THR:O	18:AS:70:ALA:HB3	1.88	0.73
19:AT:66:SER:HB3	19:AT:69:LYS:HB3	1.70	0.73
19:AT:59:ILE:CD1	19:AT:72:ARG:O	2.36	0.73
50:B3:58:ARG:N	50:B3:61:ARG:HD2	2.02	0.73
52:B5:33:LYS:HE3	52:B5:34:LEU:N	2.04	0.73
53:B6:32:LYS:HA	53:B6:35:ARG:NH1	2.02	0.73
24:BA:1188:U:C2'	24:BA:1189:A:H5'	2.18	0.73
24:BA:1514:U:H2'	24:BA:1514:U:O2	1.86	0.73
24:BA:1725:G:C2	24:BA:1726:G:C8	2.75	0.73
24:BA:1799:G:C2'	24:BA:1800:C:O5'	2.35	0.73
24:BA:1858:G:H21	24:BA:1859:A:N6	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1928:A:H5'	24:BA:1929:G:OP2	1.87	0.73
24:BA:2011:U:H2'	24:BA:2012:G:O4'	1.87	0.73
24:BA:2612:C:O2	51:B4:4:HIS:CB	2.35	0.73
24:BA:2801:A:H2	24:BA:2895:U:H1'	1.52	0.73
24:BA:352:G:H2'	24:BA:353:G:H5'	1.70	0.73
24:BA:402:A:N1	24:BA:403:U:C6	2.56	0.73
24:BA:452:G:N1	24:BA:458:G:C2	2.57	0.73
24:BA:565:C:N3	24:BA:566:U:C4	2.56	0.73
24:BA:621:A:C8	24:BA:622:G:C5'	2.66	0.73
24:BA:603:A:N6	24:BA:624:C:H41	1.83	0.73
24:BA:979:G:C8	24:BA:981:A:OP2	2.41	0.73
28:BE:36:ARG:O	28:BE:44:TYR:HD2	1.70	0.73
29:BF:171:PRO:O	29:BF:173:VAL:N	2.21	0.73
29:BF:56:GLU:O	29:BF:60:SER:N	2.22	0.73
31:BH:106:THR:HB	31:BH:111:HIS:ND1	2.03	0.73
31:BH:103:LEU:CB	31:BH:115:VAL:HB	2.14	0.73
34:BM:43:THR:HB	34:BM:44:PRO:HD3	1.69	0.73
36:BO:115:LEU:O	36:BO:117:GLU:N	2.20	0.73
36:BO:29:LYS:O	36:BO:29:LYS:HG2	1.88	0.73
36:BO:72:PRO:HB2	36:BO:111:ARG:HB3	1.69	0.73
38:BQ:46:GLY:O	38:BQ:49:ASP:HB2	1.87	0.73
39:BR:3:ARG:HA	39:BR:7:TYR:HD1	1.53	0.73
44:BW:25:LYS:HE2	44:BW:82:GLN:CD	2.07	0.73
45:BX:47:LYS:HB2	45:BX:56:PRO:HB2	1.70	0.73
46:BY:106:GLY:O	46:BY:144:LEU:HD11	1.87	0.73
32:BK:83:ALA:CB	32:BK:88:ILE:HA	2.17	0.73
26:BC:153:ILE:O	26:BC:156:ILE:HB	1.87	0.73
32:BK:136:VAL:HG23	32:BK:136:VAL:O	1.88	0.73
1:AA:1268:A:H2	1:AA:1311:G:H21	1.33	0.73
1:AA:1500:A:H2'	1:AA:1501:C:C6	2.23	0.73
1:AA:1517:G:H1'	24:BA:1919:A:O3'	1.88	0.73
1:AA:112:G:H4'	1:AA:389:A:H5''	1.70	0.73
1:AA:862:C:H1'	1:AA:874:G:C5'	2.18	0.73
1:AA:572:A:HO2'	1:AA:916:G:HO2'	1.30	0.73
4:AE:115:LEU:HB2	4:AE:145:LEU:CG	2.18	0.73
4:AE:222:ILE:O	4:AE:226:ARG:CB	2.36	0.73
4:AE:28:PHE:CE1	4:AE:31:TYR:HB2	2.22	0.73
5:AF:179:ARG:HD2	5:AF:179:ARG:O	1.87	0.73
6:AG:128:VAL:HG12	6:AG:129:ASN:N	2.02	0.73
6:AG:93:PHE:O	6:AG:94:LEU:C	2.24	0.73
7:AH:107:ARG:O	7:AH:111:GLU:HG2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:75:VAL:HG22	9:AJ:88:PRO:CA	2.18	0.73
2:AC:31:G:P	11:AL:127:LYS:HE3	2.28	0.73
11:AL:45:ALA:HB3	11:AL:74:ILE:CG2	2.19	0.73
15:AP:13:LYS:HB3	15:AP:17:VAL:HB	1.69	0.73
22:AW:57:ARG:HE	22:AW:100:ILE:HD12	1.51	0.73
24:BA:1101:U:H2'	24:BA:1102:C:H6	1.53	0.73
24:BA:1210:A:H1'	24:BA:1212:G:N2	2.01	0.73
24:BA:1473:G:N1	24:BA:1519:G:H1'	2.03	0.73
24:BA:1690:A:N6	24:BA:1697:G:N2	2.33	0.73
24:BA:1788:C:C4	24:BA:1789:A:H8	2.06	0.73
24:BA:2375:G:N2	24:BA:2378:A:N1	2.36	0.73
24:BA:2522:U:O2	24:BA:2765:A:C6	2.41	0.73
24:BA:360:G:H2'	24:BA:361:G:H5'	1.69	0.73
24:BA:371:A:C5'	24:BA:423:A:N7	2.51	0.73
24:BA:499:U:C5	24:BA:503:A:N6	2.56	0.73
25:BB:99:A:C2	25:BB:100:G:C4	2.76	0.73
25:BB:112:G:N3	25:BB:112:G:H2'	2.01	0.73
24:BA:2682:U:C2	28:BE:21:VAL:HG11	2.24	0.73
30:BG:114:ILE:HD12	30:BG:115:ARG:H	1.53	0.73
31:BH:16:SER:OG	31:BH:27:LYS:HD3	1.87	0.73
33:BL:27:LEU:CD2	33:BL:57:ILE:HD11	2.19	0.73
34:BM:78:TYR:HD1	34:BM:79:PRO:CD	1.93	0.73
35:BN:2:ILE:HD12	35:BN:32:TYR:CD1	2.20	0.73
36:BO:46:LYS:HG2	36:BO:50:ARG:CB	2.18	0.73
37:BP:22:LYS:HA	37:BP:99:PRO:CB	2.17	0.73
38:BQ:17:ARG:HG2	38:BQ:18:LEU:H	1.54	0.73
40:BS:48:ILE:CD1	40:BS:50:ILE:HD13	2.18	0.73
42:BU:68:LYS:CG	42:BU:95:LEU:HD21	2.14	0.73
24:BA:1598:C:H5''	44:BW:36:LYS:CB	2.18	0.73
44:BW:7:VAL:HG22	48:B1:31:ARG:NH1	2.02	0.73
46:BY:104:PHE:CA	46:BY:139:VAL:O	2.36	0.73
46:BY:179:ASP:CG	46:BY:180:VAL:H	1.90	0.73
32:BK:122:GLU:HB2	32:BK:126:TYR:OH	1.87	0.73
32:BK:61:ARG:HA	32:BK:64:GLU:OE1	1.88	0.73
24:BA:2195:C:O2'	24:BA:2196:C:C5'	2.36	0.73
1:AA:1185:G:C2	1:AA:1186:G:H1'	2.23	0.73
1:AA:489:C:H2'	1:AA:490:G:H8	1.54	0.73
1:AA:656:C:C2'	1:AA:657:G:H5'	2.18	0.73
1:AA:697:U:O5'	1:AA:697:U:H6	1.70	0.73
6:AG:19:LEU:N	6:AG:33:MET:HE1	1.97	0.73
8:AI:14:LEU:CD1	8:AI:15:ASP:H	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:155:ARG:O	9:AJ:156:TRP:HE3	1.72	0.73
10:AK:45:ILE:CD1	10:AK:48:TYR:HB3	2.17	0.73
12:AM:48:THR:HG23	12:AM:61:GLU:O	1.88	0.73
12:AM:65:LEU:HD12	16:AQ:56:VAL:HG22	1.70	0.73
1:AA:1329:A:C5'	15:AP:29:ARG:NE	2.51	0.73
15:AP:2:ALA:HB3	15:AP:4:ILE:HD11	1.70	0.73
19:AT:29:HIS:CE1	19:AT:31:LEU:H	2.06	0.73
19:AT:36:ILE:O	19:AT:36:ILE:HG12	1.88	0.73
21:AV:31:ILE:O	21:AV:33:THR:HG23	1.88	0.73
22:AW:36:LEU:C	22:AW:36:LEU:HD23	2.08	0.73
49:B2:40:THR:HG22	49:B2:42:ALA:H	1.52	0.73
24:BA:210:C:OP1	53:B6:29:LYS:HE2	1.87	0.73
24:BA:1061:U:H4'	24:BA:1070:A:C4'	2.18	0.73
24:BA:1911:U:C4	24:BA:1913:A:N6	2.56	0.73
24:BA:2459:A:C4	24:BA:2460:U:H1'	2.23	0.73
24:BA:565:C:O3'	24:BA:1253:A:H2	1.70	0.73
24:BA:864:G:H2'	24:BA:865:C:C1'	2.18	0.73
25:BB:78:A:H2'	25:BB:79:C:H5'	1.69	0.73
24:BA:2053:G:H4'	28:BE:145:LYS:HZ2	1.53	0.73
28:BE:5:LEU:HB3	28:BE:27:LEU:HB2	1.70	0.73
28:BE:46:ALA:HB2	28:BE:85:ASN:ND2	2.03	0.73
30:BG:8:LYS:HE2	30:BG:103:LEU:HD23	1.70	0.73
35:BN:15:GLY:H	35:BN:52:VAL:HG21	1.50	0.73
36:BO:49:ARG:CG	36:BO:49:ARG:HH21	1.99	0.73
37:BP:35:VAL:HG13	37:BP:130:LYS:C	2.07	0.73
37:BP:75:THR:OG1	37:BP:89:ASN:O	2.06	0.73
39:BR:51:ALA:C	39:BR:73:LEU:HG	2.08	0.73
39:BR:9:ARG:CZ	39:BR:9:ARG:CB	2.67	0.73
41:BT:52:ARG:HH11	41:BT:53:ARG:CA	2.01	0.73
42:BU:1:MET:N	42:BU:44:LYS:HB3	2.03	0.73
32:BK:87:LYS:HE2	32:BK:122:GLU:HG2	1.70	0.73
26:BC:134:ARG:HD2	26:BC:136:LEU:HD21	1.69	0.73
26:BC:87:GLU:HG3	26:BC:94:VAL:CG2	2.04	0.73
1:AA:1016:A:O5'	1:AA:1016:A:H8	1.72	0.73
1:AA:1433:A:O2'	1:AA:1434:A:H5'	1.88	0.73
1:AA:313:A:H2'	1:AA:314:C:C5	2.24	0.73
1:AA:321:A:C6	1:AA:322:C:N4	2.56	0.73
1:AA:559:A:H4'	1:AA:560:U:O5'	1.88	0.73
1:AA:673:G:H2'	1:AA:674:G:C8	2.23	0.73
1:AA:953:G:H2'	1:AA:954:G:C8	2.24	0.73
3:AD:37:A:C2'	3:AD:38:A:H8	1.99	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:146:ILE:N	6:AG:146:ILE:HD12	2.04	0.73
6:AG:15:GLU:HB3	6:AG:19:LEU:HD11	1.71	0.73
6:AG:22:LYS:HB3	6:AG:26:CYS:CB	2.16	0.73
8:AI:34:GLY:HA3	8:AI:68:PRO:HD2	1.69	0.73
8:AI:64:GLN:O	8:AI:65:VAL:HG12	1.87	0.73
9:AJ:69:VAL:HG11	9:AJ:104:LEU:CD2	2.19	0.73
11:AL:37:PHE:HA	11:AL:40:LEU:HD12	1.69	0.73
15:AP:16:ASP:HA	15:AP:19:LEU:HD21	1.71	0.73
1:AA:127:G:HO2'	19:AT:2:PRO:N	1.86	0.73
20:AU:81:PHE:HD1	20:AU:81:PHE:O	1.70	0.73
50:B3:59:PHE:HA	50:B3:62:ARG:NE	2.03	0.73
50:B3:9:LEU:HD22	50:B3:11:PRO:CD	2.18	0.73
51:B4:36:CYS:HB2	51:B4:37:LYS:HD2	1.71	0.73
24:BA:1326:U:C4	24:BA:1648:C:H1'	2.24	0.73
24:BA:1560:G:H2'	24:BA:1561:G:H8	1.53	0.73
24:BA:1626:G:H5'	24:BA:1627:G:OP1	1.89	0.73
24:BA:1709:U:H1'	24:BA:2860:A:H1'	1.69	0.73
24:BA:1798:U:H5'	24:BA:1803:A:H4'	1.70	0.73
24:BA:1982:C:N4	24:BA:1983:C:N4	2.36	0.73
24:BA:2305:A:HO2'	30:BG:136:ARG:HA	1.52	0.73
24:BA:242:G:H5''	54:B7:62:LEU:CD1	2.19	0.73
24:BA:2547:U:H2'	24:BA:2548:G:H5''	1.69	0.73
2:AC:75:C:P	24:BA:2602:A:OP1	2.47	0.73
24:BA:2611:U:H2'	24:BA:2612:C:O4'	1.88	0.73
24:BA:2626:C:H3'	24:BA:2626:C:C6	2.22	0.73
24:BA:745:G:O2'	24:BA:748:G:H1'	1.87	0.73
25:BB:13:A:H2'	25:BB:14:U:H5''	1.69	0.73
27:BD:14:ARG:HH11	27:BD:15:PHE:H	1.35	0.73
27:BD:42:GLY:N	27:BD:60:ARG:NH1	2.32	0.73
29:BF:9:ILE:CD1	29:BF:122:LYS:HG3	2.18	0.73
30:BG:13:GLU:O	30:BG:16:ARG:HB2	1.88	0.73
31:BH:28:GLY:N	31:BH:79:VAL:HB	2.03	0.73
35:BN:47:ILE:HG12	35:BN:48:PRO:O	1.89	0.73
40:BS:99:LEU:O	40:BS:100:TYR:O	2.06	0.73
41:BT:106:PHE:O	41:BT:107:ALA:C	2.27	0.73
41:BT:25:TRP:O	41:BT:28:ARG:HG2	1.88	0.73
43:BV:42:ARG:HG3	43:BV:43:GLY:H	1.54	0.73
45:BX:72:VAL:HG11	45:BX:96:ILE:CG2	2.18	0.73
37:BP:62:GLY:HA2	46:BY:177:PRO:CB	2.19	0.73
47:BZ:21:LEU:O	47:BZ:24:LYS:HE3	1.88	0.73
32:BK:81:VAL:HG22	32:BK:144:VAL:CG2	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:9:A:N3	3:AD:46:G:H1'	2.03	0.73
4:AE:130:ARG:HD3	4:AE:131:PRO:HD2	1.69	0.73
1:AA:1333:A:H2'	1:AA:1334:G:O4'	1.88	0.73
1:AA:1287:A:H61	1:AA:1371:G:C4'	2.01	0.73
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.54	0.73
1:AA:375:U:H2'	1:AA:376:G:H8	1.54	0.73
1:AA:41:G:H2'	1:AA:42:G:H8	1.53	0.73
1:AA:493:G:O2'	1:AA:494:U:H5	1.71	0.73
1:AA:562:C:O2'	14:AO:15:ARG:CD	2.35	0.73
1:AA:921:U:O2'	7:AH:19:MET:O	2.05	0.73
2:AC:18:G:N3	2:AC:58:A:N3	2.35	0.73
5:AF:14:ILE:HG13	5:AF:178:LEU:HD12	1.70	0.73
6:AG:127:THR:O	6:AG:146:ILE:HG22	1.87	0.73
9:AJ:12:LEU:O	9:AJ:14:PRO:HD3	1.88	0.73
12:AM:24:VAL:HG13	12:AM:34:VAL:HG11	1.71	0.73
21:AV:64:GLU:HG2	21:AV:65:ASN:N	2.04	0.73
49:B2:10:LYS:HZ3	49:B2:12:PRO:HD2	1.53	0.73
49:B2:16:PRO:HG2	49:B2:19:GLN:HB3	1.71	0.73
49:B2:40:THR:O	49:B2:44:ARG:HB2	1.87	0.73
49:B2:50:VAL:HG13	49:B2:53:LEU:CD1	2.18	0.73
24:BA:2815:C:C4'	51:B4:42:PRO:HG2	2.19	0.73
52:B5:9:LEU:CD2	52:B5:27:LYS:HG3	2.18	0.73
53:B6:43:THR:N	53:B6:44:PRO:CD	2.51	0.73
24:BA:999:U:O2	24:BA:1157:G:N2	2.22	0.73
24:BA:1223:C:C4	24:BA:1227:A:N1	2.57	0.73
24:BA:1275:A:H2	38:BQ:16:HIS:CA	1.96	0.73
24:BA:1783:A:H8	24:BA:1783:A:OP2	1.72	0.73
24:BA:532:A:P	24:BA:2021:C:H41	2.12	0.73
24:BA:2058:A:H2'	24:BA:2059:A:C8	2.21	0.73
24:BA:2699:C:O2'	24:BA:2700:C:H5'	1.89	0.73
24:BA:2784:C:O4'	28:BE:41:LYS:HD2	1.88	0.73
24:BA:39:C:H2'	24:BA:40:C:C6	2.24	0.73
24:BA:503:A:C2	24:BA:505:A:N6	2.56	0.73
24:BA:568:U:H3'	24:BA:570:G:OP2	1.89	0.73
24:BA:61:G:H5'	48:B1:45:ILE:CD1	2.18	0.73
24:BA:630:G:H1	24:BA:634:C:N4	1.85	0.73
24:BA:59:U:O4'	24:BA:73:A:C2	2.42	0.73
24:BA:790:C:O5'	24:BA:1781:C:N4	2.19	0.73
27:BD:227:ASN:O	27:BD:229:VAL:HG12	1.89	0.73
29:BF:125:LEU:C	29:BF:127:GLU:H	1.90	0.73
15:AP:7:VAL:HG13	30:BG:114:ILE:HD13	1.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:153:ARG:O	30:BG:155:MET:SD	2.46	0.73
34:BM:91:LEU:O	34:BM:95:PRO:HD3	1.88	0.73
37:BP:58:PHE:HE1	37:BP:114:ALA:HA	1.54	0.73
39:BR:71:ARG:HD3	39:BR:72:ALA:N	2.04	0.73
39:BR:92:TYR:CG	39:BR:93:LYS:N	2.55	0.73
40:BS:48:ILE:HD13	40:BS:50:ILE:CD1	2.18	0.73
41:BT:52:ARG:HD2	41:BT:52:ARG:C	2.08	0.73
42:BU:6:LYS:HZ2	42:BU:10:LYS:HD2	1.53	0.73
45:BX:12:THR:HG22	45:BX:13:VAL:N	2.01	0.73
24:BA:2134:A:C2	24:BA:2135:A:H2	2.07	0.73
24:BA:1496:A:O2'	24:BA:1497:U:C5	2.40	0.73
1:AA:1327:C:H5''	23:AX:20:LYS:CE	2.17	0.73
1:AA:68:G:C4'	1:AA:171:A:H1'	2.19	0.73
1:AA:175:C:O2'	1:AA:176:C:H5'	1.87	0.73
1:AA:818:G:N2	1:AA:820:U:N3	2.37	0.73
1:AA:894:G:C5	1:AA:895:G:N7	2.57	0.73
2:AC:57:A:O4'	30:BG:82:LEU:HD22	1.89	0.73
4:AE:167:PRO:HG2	4:AE:168:THR:H	1.53	0.73
4:AE:184:VAL:HB	4:AE:198:ASP:OD1	1.89	0.73
7:AH:17:ALA:HA	7:AH:26:PHE:HB3	1.69	0.73
8:AI:14:LEU:HD22	8:AI:18:GLN:OE1	1.88	0.73
9:AJ:65:ALA:HB2	9:AJ:124:LEU:HD23	1.71	0.73
9:AJ:64:GLN:C	9:AJ:128:ALA:HA	2.09	0.73
9:AJ:15:ASP:HB2	9:AJ:23:VAL:HG11	1.71	0.73
10:AK:92:ARG:HB3	10:AK:94:TYR:CE1	2.22	0.73
13:AN:48:ILE:HG22	13:AN:48:ILE:O	1.87	0.73
14:AO:85:ILE:CD1	14:AO:87:GLY:H	2.02	0.73
15:AP:10:PRO:HB2	15:AP:18:ALA:HA	1.68	0.73
12:AM:49:VAL:CG2	16:AQ:41:ARG:HB2	2.19	0.73
18:AS:14:ASN:HA	18:AS:42:ARG:CZ	2.19	0.73
19:AT:45:HIS:NE2	19:AT:47:PRO:HG3	2.02	0.73
50:B3:68:ARG:HH11	50:B3:68:ARG:N	1.85	0.73
54:B7:12:LYS:CG	54:B7:13:ARG:HH12	2.00	0.73
54:B7:56:GLU:OE2	54:B7:56:GLU:N	2.21	0.73
24:BA:1113:U:H6	24:BA:1113:U:O5'	1.71	0.73
24:BA:1312:U:C2'	24:BA:1313:U:H6	1.95	0.73
24:BA:178:G:H2'	24:BA:179:G:O4'	1.89	0.73
24:BA:1785:A:H5'	24:BA:1982:C:H4'	1.69	0.73
24:BA:2027:G:C2	24:BA:2028:U:H1'	2.23	0.73
24:BA:2262:U:H4'	24:BA:2328:A:C2	2.24	0.73
24:BA:2447:G:N7	24:BA:2500:U:H3'	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2459:A:N3	24:BA:2460:U:O2'	2.22	0.73
24:BA:265:A:H3'	24:BA:265:A:C8	2.23	0.73
24:BA:2893:G:H1'	24:BA:2894:G:C8	2.22	0.73
24:BA:294:A:C2'	24:BA:295:G:H5'	2.18	0.73
24:BA:343:C:H2'	24:BA:344:G:H5'	1.69	0.73
24:BA:411:G:H8	24:BA:2407:G:OP1	1.72	0.73
24:BA:501:A:O5'	24:BA:501:A:H8	1.72	0.73
24:BA:544:C:O2'	24:BA:545:G:H5'	1.89	0.73
24:BA:572:A:C5	24:BA:573:G:C2	2.76	0.73
24:BA:705:A:N1	24:BA:727:A:H1'	2.03	0.73
24:BA:882:G:N2	24:BA:895:U:C2	2.56	0.73
24:BA:903:C:H2'	24:BA:904:C:H6	1.54	0.73
27:BD:159:ALA:CA	27:BD:196:VAL:HG11	2.18	0.73
28:BE:105:THR:OG1	28:BE:166:THR:HA	1.89	0.73
28:BE:171:GLU:HB2	28:BE:185:LYS:HD2	1.70	0.73
28:BE:22:PRO:CA	28:BE:185:LYS:HA	2.18	0.73
28:BE:4:ILE:HG13	28:BE:27:LEU:CD1	2.17	0.73
29:BF:142:TRP:CE3	29:BF:145:GLU:HG3	2.24	0.73
24:BA:2314:C:C5'	30:BG:38:VAL:HG21	2.19	0.73
30:BG:3:LEU:O	30:BG:7:LEU:HG	1.89	0.73
31:BH:52:VAL:HG22	31:BH:65:HIS:CE1	2.23	0.73
24:BA:1189:A:H5''	36:BO:29:LYS:HD3	1.71	0.73
38:BQ:20:LEU:HD21	38:BQ:24:GLN:CG	2.19	0.73
40:BS:27:THR:HG22	40:BS:27:THR:O	1.86	0.73
40:BS:30:VAL:HG22	40:BS:32:TYR:CZ	2.23	0.73
43:BV:64:MET:CG	43:BV:65:LEU:H	2.01	0.73
46:BY:155:LEU:CD2	46:BY:163:LEU:HD23	2.19	0.73
47:BZ:21:LEU:HD11	47:BZ:40:GLN:C	2.07	0.73
24:BA:2118:U:H4'	24:BA:2119:A:OP1	1.87	0.73
26:BC:127:LEU:HA	26:BC:130:ILE:HD13	1.70	0.73
26:BC:54:SER:HA	26:BC:57:ASN:ND2	2.03	0.73
1:AA:1163:C:O2'	1:AA:1164:G:H5'	1.89	0.73
1:AA:1084:G:H2'	1:AA:1085:U:C5	2.24	0.73
1:AA:1187:G:H2'	1:AA:1188:A:H8	1.54	0.73
1:AA:595:G:C8	1:AA:641:U:N3	2.56	0.73
1:AA:687:A:H61	1:AA:703:G:C1'	2.02	0.73
1:AA:891:U:H5	1:AA:906:G:N2	1.86	0.73
4:AE:72:GLY:HA3	4:AE:165:VAL:CG1	2.18	0.73
4:AE:80:ILE:HG23	4:AE:212:GLN:NE2	2.03	0.73
14:AO:69:TYR:HE2	14:AO:71:PRO:HA	1.54	0.73
22:AW:44:ALA:HB3	22:AW:91:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:12:LYS:HB3	23:AX:22:ARG:HH11	1.52	0.73
49:B2:50:VAL:HG13	49:B2:53:LEU:CG	2.19	0.73
54:B7:38:GLY:O	54:B7:40:GLU:N	2.22	0.73
24:BA:1427:A:H1'	24:BA:1428:C:C5	2.23	0.73
24:BA:1754:C:H2'	24:BA:1755:A:H1'	1.71	0.73
24:BA:1937:A:C2'	24:BA:1938:A:OP1	2.36	0.73
24:BA:2059:A:N1	24:BA:2503:A:C5	2.57	0.73
24:BA:230:U:H2'	24:BA:231:C:O4'	1.88	0.73
24:BA:2327:A:C2'	24:BA:2328:A:H8	1.96	0.73
24:BA:2570:G:N2	24:BA:2571:C:C2	2.56	0.73
24:BA:270(C):C:C2'	24:BA:270(D):C:H6	2.01	0.73
24:BA:308:G:N2	24:BA:329:G:H2'	2.02	0.73
24:BA:673:C:H5''	29:BF:81:PRO:HG2	1.68	0.73
24:BA:852:G:O4'	49:B2:42:ALA:HA	1.88	0.73
24:BA:943:U:H5''	24:BA:944:G:C6	2.23	0.73
25:BB:12:C:C5	47:BZ:74:ARG:HB2	2.23	0.73
25:BB:75:G:H5'	46:BY:11:GLU:HG2	1.69	0.73
28:BE:33:VAL:HG22	28:BE:47:VAL:C	2.07	0.73
31:BH:115:VAL:HG13	31:BH:116:GLU:N	2.03	0.73
31:BH:107:VAL:HB	31:BH:160:LYS:HD3	1.70	0.73
31:BH:87:LEU:H	31:BH:132:ARG:HB3	1.53	0.73
34:BM:10:GLU:OE2	34:BM:39:ARG:NH1	2.22	0.73
34:BM:37:LYS:NZ	34:BM:43:THR:HG22	2.04	0.73
34:BM:87:LEU:HA	34:BM:90:MET:SD	2.29	0.73
36:BO:45:LEU:O	36:BO:46:LYS:CB	2.35	0.73
38:BQ:79:LEU:HD23	38:BQ:80:PHE:H	1.54	0.73
40:BS:30:VAL:HG23	40:BS:89:VAL:O	1.89	0.73
42:BU:15:GLU:HB3	42:BU:16:PRO:HD2	1.69	0.73
46:BY:116:VAL:CG1	46:BY:174:VAL:HB	2.17	0.73
1:AA:300:A:C2'	1:AA:301:G:H5'	2.19	0.73
1:AA:80:G:H3'	1:AA:81:G:H8	1.52	0.73
1:AA:90:C:O2'	1:AA:91:C:H5'	1.89	0.73
6:AG:135:LEU:C	6:AG:137:SER:H	1.91	0.73
7:AH:91:LEU:HD23	7:AH:91:LEU:O	1.89	0.73
9:AJ:5:ARG:HB3	9:AJ:5:ARG:CZ	2.17	0.73
13:AN:32:ILE:O	13:AN:40:ILE:HD13	1.88	0.73
1:AA:1228:C:P	15:AP:115:LYS:HB3	2.29	0.73
15:AP:91:ARG:HB3	15:AP:98:VAL:CG2	2.17	0.73
21:AV:42:PRO:O	21:AV:45:VAL:HG23	1.88	0.73
48:B1:36:ILE:HD13	48:B1:37:GLY:N	2.04	0.73
48:B1:37:GLY:CA	48:B1:41:GLN:HE21	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:28:LYS:HE3	50:B3:29:PRO:HD2	1.70	0.73
24:BA:1014:U:H2'	24:BA:1015:G:C5'	2.18	0.73
24:BA:1021:A:C6	24:BA:1023:U:C6	2.76	0.73
24:BA:1061:U:C4'	24:BA:1070:A:H4'	2.17	0.73
24:BA:1137:G:H2'	24:BA:1138:G:O4'	1.87	0.73
24:BA:243:U:H2'	24:BA:244:A:C5'	2.19	0.73
24:BA:2581:G:N1	24:BA:2610:C:C6	2.56	0.73
24:BA:2815:C:H2'	24:BA:2816:C:H6	1.53	0.73
24:BA:408:G:O2'	24:BA:409:C:H5'	1.89	0.73
24:BA:67:U:H2'	24:BA:68:G:H8	1.53	0.73
27:BD:146:GLU:HB2	27:BD:153:ALA:CA	2.17	0.73
27:BD:54:ARG:HA	27:BD:220:HIS:N	2.01	0.73
27:BD:58:HIS:O	27:BD:59:LYS:HB3	1.88	0.73
28:BE:55:ASN:O	28:BE:56:PRO:C	2.26	0.73
29:BF:126:VAL:HG23	29:BF:197:ASP:HB2	1.70	0.73
30:BG:130:ASN:ND2	30:BG:161:THR:N	2.36	0.73
30:BG:31:VAL:N	30:BG:32:PRO:HA	2.01	0.73
31:BH:35:VAL:CG1	31:BH:72:ILE:HA	2.17	0.73
24:BA:2685:G:C4'	35:BN:67:LYS:NZ	2.48	0.73
35:BN:99:PHE:CE2	35:BN:105:GLU:OE2	2.39	0.73
36:BO:72:PRO:HA	36:BO:110:TYR:CG	2.22	0.73
36:BO:90:ARG:HA	36:BO:125:VAL:HG13	1.71	0.73
37:BP:111:GLU:C	37:BP:113:GLN:N	2.38	0.73
38:BQ:97:VAL:HG22	38:BQ:114:VAL:HG11	1.70	0.73
39:BR:78:LEU:C	39:BR:78:LEU:HD22	2.07	0.73
39:BR:9:ARG:NE	39:BR:12:PHE:HE2	1.86	0.73
41:BT:12:ARG:HB2	41:BT:13:LYS:HZ3	1.51	0.73
42:BU:35:LEU:N	42:BU:61:VAL:HG13	2.04	0.73
43:BV:50:VAL:HG11	43:BV:103:ILE:HG13	1.68	0.73
43:BV:6:ILE:HA	43:BV:103:ILE:O	1.89	0.73
44:BW:66:LEU:HG	44:BW:69:TYR:C	2.09	0.73
44:BW:85:PRO:HG2	44:BW:87:GLN:NE2	2.02	0.73
26:BC:87:GLU:HA	26:BC:91:ALA:HB3	1.68	0.73
24:BA:1579:A:C5	24:BA:1580:A:H1'	2.24	0.73
1:AA:101:A:H2'	1:AA:102:G:C8	2.18	0.73
1:AA:1077:G:H1'	1:AA:1081:G:N2	2.03	0.73
1:AA:118:U:O4	1:AA:288:A:H2'	1.88	0.73
1:AA:1209:C:H2'	1:AA:1210:C:H5'	1.71	0.73
1:AA:1330:U:OP1	15:AP:25:ILE:N	2.21	0.73
1:AA:169:C:H2'	1:AA:170:U:H6	1.52	0.73
4:AE:118:LEU:CD2	4:AE:142:LEU:HB2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:151:LYS:O	6:AG:154:ASN:ND2	2.18	0.73
6:AG:26:CYS:O	6:AG:33:MET:CG	2.36	0.73
6:AG:59:ARG:HA	6:AG:59:ARG:NE	1.95	0.73
9:AJ:155:ARG:HA	9:AJ:155:ARG:CZ	2.18	0.73
12:AM:5:ARG:HB2	12:AM:5:ARG:CZ	2.19	0.73
12:AM:79:ARG:HA	12:AM:79:ARG:NH1	2.03	0.73
13:AN:27:ASN:HB2	13:AN:55:LYS:HE3	1.71	0.73
14:AO:76:ASN:HD21	14:AO:107:ALA:HA	1.54	0.73
15:AP:13:LYS:HB3	15:AP:17:VAL:CG1	2.19	0.73
16:AQ:26:ARG:HH11	16:AQ:47:LEU:CG	2.02	0.73
5:AF:33:LEU:HD11	16:AQ:53:LEU:HA	1.70	0.73
1:AA:582:U:H5''	17:AR:68:ARG:HH12	1.54	0.73
22:AW:64:ASP:O	22:AW:67:ALA:CB	2.36	0.73
52:B5:22:ALA:HB1	52:B5:39:TYR:CE2	2.22	0.73
24:BA:464:U:H4'	53:B6:12:ARG:NH2	2.02	0.73
24:BA:2362:G:O5'	54:B7:29:LYS:HE3	1.87	0.73
54:B7:4:MET:HE1	54:B7:62:LEU:CG	2.19	0.73
55:B8:8:LYS:O	55:B8:9:ARG:O	2.05	0.73
24:BA:1013:C:H2'	24:BA:1014:U:H6	1.53	0.73
24:BA:1059:G:C6	24:BA:1060:U:H1'	2.24	0.73
24:BA:1306:C:H2'	24:BA:1307:A:H8	1.52	0.73
24:BA:1328:G:O2'	24:BA:1329:U:H5''	1.89	0.73
24:BA:1423:G:N3	24:BA:1424:G:C8	2.57	0.73
24:BA:1465:G:HO2'	24:BA:1545(A):A:H2	1.37	0.73
24:BA:1710:C:H1'	24:BA:2858:C:N4	2.03	0.73
24:BA:2256:G:N2	24:BA:2275:C:N4	2.37	0.73
24:BA:2277:G:H5''	47:BZ:12:ASN:ND2	2.04	0.73
24:BA:2332:U:C4'	24:BA:2336:A:N6	2.46	0.73
24:BA:2416:C:OP1	36:BO:59:LEU:HA	1.89	0.73
24:BA:2447:G:H2'	24:BA:2499:C:OP2	1.87	0.73
24:BA:2710:C:H2'	24:BA:2711:A:H5''	1.69	0.73
24:BA:297:C:H5''	45:BX:83:THR:OG1	1.88	0.73
24:BA:522:G:O2'	24:BA:523:C:H5'	1.87	0.73
24:BA:865:C:H42	24:BA:909:A:H62	1.37	0.73
27:BD:186:HIS:HB2	27:BD:188:GLU:OE2	1.88	0.73
27:BD:196:VAL:HG12	27:BD:198:ASN:N	2.03	0.73
28:BE:173:VAL:HG22	28:BE:174:ASP:H	1.53	0.73
29:BF:184:TYR:N	29:BF:184:TYR:HD2	1.86	0.73
30:BG:81:LYS:HG2	30:BG:81:LYS:O	1.88	0.73
34:BM:35:ARG:HD3	34:BM:38:HIS:CB	2.08	0.73
35:BN:2:ILE:CG2	35:BN:32:TYR:HB3	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:22:LYS:CD	37:BP:23:GLY:H	2.02	0.73
24:BA:2495:G:H5''	37:BP:82:ARG:HA	1.70	0.73
38:BQ:73:VAL:O	38:BQ:76:VAL:HB	1.88	0.73
38:BQ:79:LEU:HD23	38:BQ:80:PHE:HB2	1.71	0.73
39:BR:97:ARG:HG3	39:BR:97:ARG:HH21	1.54	0.73
43:BV:72:LYS:HB2	43:BV:108:GLY:CA	2.19	0.73
46:BY:127:LYS:NZ	46:BY:165:VAL:HB	2.02	0.73
24:BA:2117:A:N6	24:BA:2171:A:H61	1.85	0.73
1:AA:615:C:O2'	1:AA:616:G:H5'	1.89	0.73
1:AA:219:C:H3'	1:AA:219:C:C6	2.24	0.73
1:AA:18:C:C1'	1:AA:1079:G:H21	1.98	0.72
1:AA:1202:G:N2	1:AA:1203:C:C1'	2.52	0.72
1:AA:1230:C:O2'	1:AA:1231:G:H5'	1.89	0.72
1:AA:1483:A:H2'	1:AA:1484:C:O4'	1.89	0.72
1:AA:709:G:O2'	1:AA:710:G:H5'	1.88	0.72
5:AF:153:VAL:HG23	5:AF:166:GLU:HB3	1.71	0.72
1:AA:1256:A:H5''	5:AF:27:LYS:NZ	2.04	0.72
10:AK:26:VAL:C	10:AK:58:TYR:CE1	2.63	0.72
11:AL:28:VAL:HG11	11:AL:36:TYR:CB	2.18	0.72
13:AN:22:HIS:ND1	13:AN:29:ILE:HG12	2.03	0.72
14:AO:93:LEU:N	14:AO:93:LEU:HD23	2.03	0.72
18:AS:32:TYR:HE2	18:AS:35:LYS:HB2	1.54	0.72
21:AV:22:LEU:CD2	21:AV:25:LYS:HE2	2.18	0.72
48:B1:45:ILE:HG13	48:B1:46:ARG:H	1.53	0.72
50:B3:65:ASP:N	50:B3:68:ARG:NH2	2.36	0.72
51:B4:45:VAL:HG21	51:B4:57:VAL:HG21	1.71	0.72
52:B5:50:ARG:CZ	52:B5:52:VAL:HG21	2.19	0.72
54:B7:26:LYS:HD2	54:B7:44:LYS:N	2.04	0.72
54:B7:23:VAL:CG2	54:B7:48:PHE:HB2	2.18	0.72
24:BA:1241:A:C4'	24:BA:1241:A:N3	2.52	0.72
24:BA:1716:U:O2	24:BA:1716:U:C2'	2.35	0.72
24:BA:1884:A:C8	24:BA:1884:A:OP2	2.42	0.72
24:BA:1949:G:H2'	24:BA:1950:G:O4'	1.89	0.72
24:BA:1935:G:H3'	24:BA:1962:C:H42	1.53	0.72
24:BA:2345:G:H4'	24:BA:2346:A:H5'	1.70	0.72
24:BA:2648:C:H2'	24:BA:2649:U:C6	2.24	0.72
24:BA:527:C:O4'	24:BA:2779:U:O4	2.07	0.72
24:BA:2781:A:H3'	24:BA:2781:A:H8	1.54	0.72
24:BA:279:C:H2'	24:BA:280:C:C6	2.24	0.72
24:BA:347:A:N3	24:BA:347:A:H2'	2.04	0.72
24:BA:635:C:O2'	24:BA:639:U:OP1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:202:LYS:HD2	27:BD:202:LYS:H	1.54	0.72
24:BA:781:A:H1'	27:BD:222:ARG:NH1	2.03	0.72
27:BD:225:ALA:CB	27:BD:231:HIS:CE1	2.71	0.72
28:BE:54:GLN:HE21	28:BE:56:PRO:CD	2.02	0.72
29:BF:115:ALA:O	29:BF:119:ARG:HG3	1.89	0.72
30:BG:32:PRO:CB	30:BG:163:ALA:HA	2.19	0.72
30:BG:59:GLU:OE2	30:BG:152:LEU:HB3	1.88	0.72
33:BL:90:LYS:NZ	33:BL:93:ARG:HH22	1.85	0.72
34:BM:123:TYR:CD2	34:BM:129:PRO:HB2	2.24	0.72
24:BA:2562:U:O2'	35:BN:23:ARG:NH2	2.22	0.72
38:BQ:79:LEU:HD23	38:BQ:80:PHE:N	2.03	0.72
39:BR:106:ARG:NH2	39:BR:110:LEU:HB3	2.04	0.72
39:BR:3:ARG:HD3	39:BR:4:LEU:HG	1.71	0.72
39:BR:76:LYS:C	39:BR:80:LEU:HD23	2.10	0.72
42:BU:91:TYR:O	42:BU:92:THR:HB	1.88	0.72
44:BW:5:TYR:O	44:BW:7:VAL:N	2.22	0.72
25:BB:12:C:C5'	47:BZ:74:ARG:HG2	2.19	0.72
1:AA:264:U:H2'	19:AT:64:PRO:HB2	1.72	0.72
1:AA:55:A:H2'	1:AA:56:U:O4'	1.90	0.72
1:AA:751:U:H2'	1:AA:752:G:O4'	1.88	0.72
1:AA:779:C:N3	1:AA:780:A:C2	2.57	0.72
1:AA:817:C:H1'	1:AA:818:G:H5''	1.71	0.72
6:AG:19:LEU:O	6:AG:26:CYS:SG	2.47	0.72
8:AI:52:ILE:HG21	8:AI:87:ARG:NH1	2.04	0.72
9:AJ:26:PHE:CE1	9:AJ:105:VAL:HG22	2.24	0.72
10:AK:111:ILE:HD12	10:AK:111:ILE:N	2.02	0.72
11:AL:4:TYR:HB3	11:AL:87:GLN:CB	2.19	0.72
14:AO:54:LYS:HB2	14:AO:70:ILE:HB	1.69	0.72
1:AA:1329:A:H5'	15:AP:29:ARG:NE	2.04	0.72
20:AU:21:LYS:NZ	20:AU:23:LYS:HB3	2.03	0.72
20:AU:22:VAL:HG22	20:AU:55:ARG:NH1	2.04	0.72
1:AA:1327:C:OP1	23:AX:20:LYS:HB3	1.88	0.72
52:B5:28:ARG:O	52:B5:32:ASN:HA	1.89	0.72
54:B7:22:VAL:HG12	54:B7:23:VAL:N	2.04	0.72
24:BA:1143:A:O2'	24:BA:1144:G:C5'	2.37	0.72
24:BA:1166:C:H2'	24:BA:1167:U:C6	2.24	0.72
24:BA:1537:C:O5'	24:BA:1537:C:H6	1.71	0.72
24:BA:1835:G:C4	24:BA:1931:U:N3	2.57	0.72
24:BA:1918:A:H5''	24:BA:1918:A:H8	1.54	0.72
24:BA:1927:A:C5	24:BA:1928:A:C2	2.77	0.72
24:BA:2393:A:O2'	24:BA:2394:C:H5'	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:411:G:C6	24:BA:2407:G:N7	2.56	0.72
24:BA:2455:G:C6	24:BA:2456:C:N4	2.57	0.72
24:BA:2456:C:H2'	24:BA:2457:U:H5'	1.69	0.72
24:BA:537:C:H2'	24:BA:539:G:C8	2.24	0.72
24:BA:920:G:O2'	24:BA:921:G:H5'	1.89	0.72
28:BE:114:ALA:HB3	28:BE:118:LYS:HB2	1.72	0.72
28:BE:197:ILE:HG22	28:BE:198:VAL:H	1.52	0.72
29:BF:89:VAL:HG12	29:BF:90:PHE:H	1.54	0.72
30:BG:110:ALA:CA	30:BG:113:ARG:HD3	2.18	0.72
34:BM:109:LYS:CE	34:BM:110:GLY:H	2.02	0.72
34:BM:74:ARG:HG3	34:BM:82:LEU:CD2	2.11	0.72
35:BN:7:TYR:HB3	35:BN:18:LYS:CE	2.19	0.72
36:BO:7:ARG:CD	36:BO:8:PRO:HD3	2.20	0.72
39:BR:42:ASP:OD1	39:BR:44:LYS:HG2	1.88	0.72
41:BT:55:ARG:H	41:BT:55:ARG:CD	2.02	0.72
45:BX:2:ARG:HD2	45:BX:3:VAL:CG2	2.17	0.72
45:BX:2:ARG:HH21	45:BX:4:LYS:CB	1.95	0.72
46:BY:70:LEU:HD22	46:BY:71:VAL:O	1.89	0.72
24:BA:2152:G:H2'	24:BA:2153:G:C8	2.24	0.72
24:BA:2097:C:H2'	24:BA:2098:U:H5'	1.71	0.72
48:B1:65:GLN:N	48:B1:65:GLN:HE21	1.86	0.72
1:AA:1067:A:H1'	1:AA:1068:G:O4'	1.90	0.72
1:AA:267:C:C4	1:AA:268:C:N4	2.58	0.72
4:AE:113:HIS:O	4:AE:116:GLU:HG2	1.89	0.72
4:AE:132:LYS:H	4:AE:132:LYS:HE2	1.52	0.72
4:AE:84:GLU:N	4:AE:234:PRO:HG3	2.05	0.72
5:AF:107:GLN:O	5:AF:108:ASN:HB2	1.90	0.72
5:AF:10:PHE:HD1	5:AF:178:LEU:HD22	1.55	0.72
5:AF:84:ILE:HG13	5:AF:101:LEU:HD22	1.70	0.72
6:AG:11:LEU:C	6:AG:19:LEU:HD12	2.09	0.72
1:AA:619:U:N3	6:AG:135:LEU:HD21	2.00	0.72
10:AK:86:ILE:CD1	10:AK:135:CYS:HA	2.18	0.72
12:AM:60:ARG:CZ	12:AM:60:ARG:HB2	2.19	0.72
15:AP:81:LEU:HD22	15:AP:82:MET:N	2.04	0.72
16:AQ:47:LEU:O	16:AQ:50:LYS:HB2	1.89	0.72
18:AS:4:ILE:N	18:AS:4:ILE:HD13	2.04	0.72
19:AT:9:VAL:HG13	19:AT:11:VAL:HG22	1.70	0.72
22:AW:44:ALA:HB2	22:AW:52:ALA:HB1	1.72	0.72
51:B4:51:TYR:CG	51:B4:55:ARG:HD3	2.23	0.72
24:BA:146:G:C2'	24:BA:147:U:H5''	2.19	0.72
24:BA:1609:A:N6	24:BA:1616:A:C2	2.56	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1814:G:P	27:BD:43:ARG:HB3	2.30	0.72
24:BA:2061:G:HO2'	24:BA:2062:A:H5''	1.52	0.72
24:BA:2075:U:H6	24:BA:2597:G:N2	1.87	0.72
24:BA:2282:G:H1	24:BA:2427:C:N4	1.82	0.72
24:BA:242:G:H2'	24:BA:243:U:OP2	1.88	0.72
24:BA:2559:C:O2'	24:BA:2560:C:C5'	2.37	0.72
24:BA:2808:U:OP1	24:BA:2809:A:OP2	2.07	0.72
24:BA:531:C:H5'	24:BA:532:A:C2	2.23	0.72
24:BA:61:G:H2'	24:BA:62:C:C6	2.23	0.72
27:BD:228:PRO:HD3	27:BD:235:GLY:HA3	1.70	0.72
27:BD:245:PRO:O	27:BD:252:TRP:CH2	2.42	0.72
27:BD:38:LYS:HD2	27:BD:38:LYS:C	2.08	0.72
27:BD:54:ARG:HB3	27:BD:218:ARG:CB	2.16	0.72
27:BD:9:TYR:O	27:BD:10:THR:CB	2.37	0.72
28:BE:141:ILE:HD12	28:BE:150:VAL:HG22	1.69	0.72
29:BF:38:ARG:NH1	36:BO:10:PRO:CA	2.52	0.72
30:BG:26:GLN:HB3	30:BG:31:VAL:HG21	1.72	0.72
31:BH:121:ILE:HD11	31:BH:123:PHE:HE1	1.54	0.72
31:BH:152:ARG:NH2	31:BH:152:ARG:HG3	1.96	0.72
31:BH:25:LYS:HG3	31:BH:32:GLU:HB2	1.71	0.72
34:BM:118:LYS:O	34:BM:121:LYS:HE3	1.89	0.72
36:BO:123:LEU:CG	36:BO:134:ALA:HB1	2.18	0.72
24:BA:2484:G:N3	37:BP:124:LYS:HG3	2.04	0.72
37:BP:25:ASP:HB3	37:BP:102:VAL:N	2.03	0.72
40:BS:19:LEU:O	40:BS:20:PRO:C	2.28	0.72
24:BA:19:C:OP1	41:BT:23:GLY:HA3	1.89	0.72
42:BU:93:GLU:CD	42:BU:95:LEU:HD23	2.10	0.72
44:BW:63:LYS:H	44:BW:72:LYS:CD	2.01	0.72
44:BW:50:LYS:HE2	44:BW:88:LYS:HG2	1.71	0.72
26:BC:71:GLN:CG	26:BC:72:VAL:H	2.02	0.72
1:AA:1047:G:H2'	1:AA:1048:G:H5'	1.72	0.72
1:AA:1226:C:C5	15:AP:104:ARG:HA	2.23	0.72
1:AA:1247:U:H2'	1:AA:1248:A:H8	1.53	0.72
1:AA:280:C:H5''	1:AA:281:G:OP2	1.89	0.72
1:AA:476:G:O2'	1:AA:477:G:H5'	1.90	0.72
1:AA:666:G:H5'	1:AA:726:C:O2	1.89	0.72
2:AC:44:A:C2	2:AC:45:G:N3	2.57	0.72
3:AD:40:C:C3'	3:AD:41:G:H5''	2.18	0.72
4:AE:168:THR:CG2	4:AE:192:SER:HA	2.19	0.72
6:AG:119:GLN:NE2	6:AG:123:HIS:NE2	2.35	0.72
9:AJ:47:CYS:HA	9:AJ:50:ILE:HD12	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:48:TYR:CB	10:AK:61:VAL:HG22	2.20	0.72
10:AK:97:VAL:HG22	10:AK:98:LYS:N	2.03	0.72
13:AN:48:ILE:HD12	13:AN:63:LEU:HD22	1.70	0.72
15:AP:14:ARG:HB3	15:AP:44:ARG:HD2	1.70	0.72
17:AR:57:LEU:N	17:AR:57:LEU:CD1	2.52	0.72
17:AR:36:ILE:HD11	17:AR:60:VAL:HG22	1.71	0.72
19:AT:7:THR:HG23	19:AT:57:VAL:O	1.89	0.72
21:AV:50:ALA:HB1	21:AV:57:HIS:CB	2.20	0.72
24:BA:1366:A:OP1	50:B3:1:MET:HA	1.89	0.72
24:BA:125:G:H21	53:B6:13:ALA:HB3	1.55	0.72
24:BA:1029:A:H2'	24:BA:1030:G:O4'	1.90	0.72
24:BA:1069:A:C8	24:BA:1074:G:O6	2.42	0.72
24:BA:1190:G:OP1	36:BO:31:ALA:N	2.22	0.72
24:BA:1449:A:H2'	24:BA:1449(A):G:O5'	1.88	0.72
24:BA:1465:G:N2	24:BA:1466:G:H1'	2.03	0.72
24:BA:1473:G:H2'	24:BA:1474:C:O4'	1.88	0.72
24:BA:1619:G:O2'	24:BA:1620:G:H5'	1.89	0.72
24:BA:1967:C:O2	24:BA:1967:C:H2'	1.88	0.72
24:BA:2227:A:C6	24:BA:2228:G:N7	2.57	0.72
3:AD:76:A:H2	24:BA:2431:U:O3'	1.71	0.72
24:BA:2596:U:H2'	27:BD:242:ARG:NE	2.05	0.72
24:BA:2853:C:O2'	24:BA:2854:G:H5'	1.88	0.72
24:BA:401:A:N6	24:BA:423:A:C2	2.57	0.72
25:BB:52:A:C2'	25:BB:53:A:H5'	2.19	0.72
27:BD:206:LEU:CD2	27:BD:207:GLY:N	2.51	0.72
27:BD:32:SER:O	27:BD:33:LEU:O	2.07	0.72
27:BD:33:LEU:HD13	27:BD:63:ARG:NH2	2.04	0.72
28:BE:178:GLU:O	28:BE:180:ASN:N	2.21	0.72
29:BF:135:LYS:HB3	29:BF:138:GLU:CD	2.09	0.72
34:BM:15:LEU:HD11	34:BM:137:LYS:CB	2.19	0.72
34:BM:23:LEU:CD2	34:BM:61:ARG:O	2.38	0.72
34:BM:86:PRO:O	34:BM:89:LYS:CD	2.37	0.72
37:BP:102:VAL:O	37:BP:102:VAL:HG13	1.88	0.72
24:BA:2850:A:H2	38:BQ:61:HIS:NE2	1.86	0.72
38:BQ:55:ALA:CB	38:BQ:79:LEU:HD11	2.20	0.72
40:BS:62:THR:HG22	40:BS:79:HIS:HA	1.70	0.72
42:BU:75:PHE:O	42:BU:86:GLY:HA2	1.89	0.72
46:BY:165:VAL:HG12	46:BY:166:SER:N	2.03	0.72
32:BK:69:LYS:NZ	32:BK:70:LYS:CE	2.52	0.72
1:AA:1229:A:H8	1:AA:1229:A:O5'	1.72	0.72
1:AA:1299:A:N7	1:AA:1301:U:H1'	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1311:G:N7	21:AV:2:PRO:CA	2.52	0.72
1:AA:31:G:C6	1:AA:306:G:H1'	2.24	0.72
1:AA:113:G:H1'	1:AA:354:G:H5''	1.70	0.72
1:AA:49:U:C2	1:AA:364:A:N6	2.58	0.72
1:AA:775:G:OP2	27:BD:276:LYS:HG3	1.88	0.72
1:AA:789:U:H6	1:AA:790:A:H5''	1.54	0.72
5:AF:49:SER:C	5:AF:51:GLY:H	1.91	0.72
6:AG:3:ARG:NH2	6:AG:74:GLN:OE1	2.21	0.72
8:AI:65:VAL:HG23	8:AI:66:GLU:N	2.04	0.72
1:AA:969:A:O2'	12:AM:55:LYS:NZ	2.23	0.72
12:AM:82:ILE:HG23	12:AM:86:MET:CE	2.19	0.72
15:AP:10:PRO:CG	15:AP:18:ALA:HB1	2.18	0.72
15:AP:91:ARG:HD3	15:AP:96:LEU:CD1	2.19	0.72
16:AQ:3:ARG:HG3	16:AQ:3:ARG:O	1.87	0.72
16:AQ:45:ARG:O	16:AQ:48:ALA:HB3	1.90	0.72
23:AX:18:TYR:CD2	23:AX:24:ARG:HA	2.24	0.72
49:B2:55:ARG:CZ	49:B2:55:ARG:HB2	2.18	0.72
50:B3:59:PHE:HD1	50:B3:60:GLN:HG2	1.54	0.72
43:BV:19:LEU:CB	51:B4:25:LEU:HD13	2.04	0.72
51:B4:30:LEU:HB3	51:B4:39:MET:SD	2.30	0.72
54:B7:25:MET:CE	54:B7:44:LYS:HD3	2.18	0.72
24:BA:1056:G:H21	24:BA:1104:C:H42	1.35	0.72
24:BA:1204:A:C2	29:BF:188:ARG:HA	2.25	0.72
24:BA:1203:G:C4	24:BA:1241:A:H8	1.97	0.72
24:BA:1691:C:HO2'	24:BA:1692:U:H5'	1.53	0.72
24:BA:1988:C:O2'	24:BA:1989:G:H5'	1.89	0.72
24:BA:2387:U:C2	47:BZ:41:ARG:NH2	2.58	0.72
24:BA:2405:G:H2'	24:BA:2411:A:N6	2.04	0.72
24:BA:2748:A:N1	24:BA:2756:U:O2	2.21	0.72
24:BA:429:A:H2'	24:BA:430:G:N7	2.05	0.72
24:BA:640:C:C2'	24:BA:641:C:C5'	2.67	0.72
24:BA:763:G:H5'	27:BD:211:ARG:NH1	2.05	0.72
25:BB:68:C:C2'	25:BB:69:G:H8	2.00	0.72
27:BD:53:PHE:N	27:BD:53:PHE:CD1	2.54	0.72
28:BE:8:LYS:HD3	28:BE:9:VAL:HG13	1.71	0.72
30:BG:34:LEU:HD22	30:BG:100:TRP:HE1	1.53	0.72
34:BM:30:ILE:O	34:BM:34:LEU:HD12	1.87	0.72
35:BN:77:ILE:O	40:BS:75:ILE:HG13	1.90	0.72
36:BO:125:VAL:O	36:BO:126:VAL:O	2.06	0.72
37:BP:34:LEU:CD2	37:BP:118:LEU:HD22	2.20	0.72
37:BP:116:GLU:O	37:BP:119:ARG:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:62:LYS:O	39:BR:65:VAL:N	2.22	0.72
24:BA:2020:A:OP2	41:BT:27:LEU:HD22	1.90	0.72
41:BT:32:PHE:O	41:BT:36:ARG:HG3	1.88	0.72
45:BX:12:THR:OG1	45:BX:72:VAL:N	2.23	0.72
46:BY:28:MET:HA	46:BY:28:MET:CE	2.15	0.72
46:BY:81:ARG:O	46:BY:82:ARG:HB3	1.89	0.72
26:BC:74:VAL:O	26:BC:93:TYR:HB2	1.89	0.72
24:BA:1580:A:H2'	24:BA:1581:G:C4	2.24	0.72
1:AA:1125:U:H4'	1:AA:1126:U:H5	1.53	0.72
1:AA:1401:G:H2'	1:AA:1402:C:C5'	2.20	0.72
1:AA:565:U:H3'	1:AA:566:G:C8	2.24	0.72
1:AA:585:G:O2'	1:AA:586:C:H5'	1.89	0.72
1:AA:596:C:O2	1:AA:596:C:H2'	1.89	0.72
1:AA:705:U:C4	1:AA:706:A:N7	2.56	0.72
4:AE:139:LYS:HG3	4:AE:140:HIS:H	1.49	0.72
4:AE:136:VAL:N	4:AE:139:LYS:HZ2	1.86	0.72
4:AE:28:PHE:CD1	4:AE:31:TYR:HB2	2.25	0.72
4:AE:82:ARG:CA	4:AE:92:TYR:HE1	2.03	0.72
6:AG:126:ILE:H	6:AG:132:ARG:HD2	1.53	0.72
8:AI:39:LYS:O	8:AI:63:TYR:HA	1.90	0.72
9:AJ:79:ARG:CZ	9:AJ:84:ASN:HB3	2.19	0.72
13:AN:86:GLY:CA	13:AN:112:THR:HG23	2.18	0.72
14:AO:5:PRO:O	14:AO:6:THR:CG2	2.38	0.72
15:AP:60:VAL:HG13	15:AP:64:TRP:HB2	1.72	0.72
19:AT:31:LEU:O	19:AT:31:LEU:HD12	1.89	0.72
48:B1:4:GLN:HA	48:B1:7:GLU:OE2	1.89	0.72
49:B2:10:LYS:NZ	49:B2:12:PRO:CG	2.52	0.72
49:B2:19:GLN:NE2	49:B2:50:VAL:HA	2.04	0.72
50:B3:29:PRO:HB2	50:B3:31:ILE:HG23	1.69	0.72
51:B4:13:LYS:O	51:B4:14:ALA:C	2.27	0.72
53:B6:19:ARG:CB	53:B6:23:ARG:HH21	2.01	0.72
24:BA:1783:A:H5''	24:BA:1784:A:OP1	1.88	0.72
24:BA:1935:G:C3'	24:BA:1962:C:H42	2.03	0.72
24:BA:261:G:O2'	24:BA:609:A:H4'	1.90	0.72
24:BA:2781:A:C3'	24:BA:2781:A:C8	2.69	0.72
24:BA:457:A:H1'	24:BA:459:U:C4	2.25	0.72
24:BA:470:A:H2'	24:BA:471:A:O4'	1.89	0.72
24:BA:845:G:H5''	24:BA:846:C:OP1	1.88	0.72
24:BA:954:G:H5''	37:BP:17:LEU:HD23	1.70	0.72
25:BB:73:A:O2'	25:BB:74:U:O5'	2.07	0.72
25:BB:88:C:N4	25:BB:89:G:N2	2.33	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:120:TRP:CZ2	28:BE:122:PHE:HB2	2.24	0.72
28:BE:101:ARG:NE	28:BE:169:ASN:HD21	1.88	0.72
28:BE:7:VAL:HG22	28:BE:8:LYS:N	2.04	0.72
29:BF:122:LYS:HD3	29:BF:123:LEU:N	2.04	0.72
29:BF:126:VAL:HA	29:BF:195:ASP:O	1.89	0.72
29:BF:181:LEU:N	29:BF:181:LEU:HD13	2.05	0.72
29:BF:194:MET:HE2	29:BF:195:ASP:N	2.04	0.72
31:BH:148:ILE:HG23	31:BH:149:ARG:H	1.52	0.72
31:BH:38:SER:H	31:BH:41:MET:HE2	1.53	0.72
31:BH:85:LYS:N	31:BH:133:VAL:O	2.23	0.72
36:BO:135:LEU:HD13	36:BO:135:LEU:H	1.52	0.72
36:BO:47:ASP:HB3	36:BO:48:PRO:CD	2.19	0.72
37:BP:69:PHE:CD1	37:BP:70:PRO:HD2	2.24	0.72
39:BR:3:ARG:CG	39:BR:4:LEU:N	2.51	0.72
39:BR:94:TYR:C	39:BR:99:LYS:HB2	2.08	0.72
39:BR:94:TYR:CD1	39:BR:94:TYR:N	2.56	0.72
42:BU:80:GLN:NE2	42:BU:81:TYR:CE1	2.57	0.72
42:BU:72:VAL:O	42:BU:89:GLN:CB	2.37	0.72
44:BW:27:THR:HB	44:BW:80:ILE:CD1	2.17	0.72
24:BA:2127:G:O2'	24:BA:2128:C:H5'	1.89	0.72
24:BA:154:G:N1	24:BA:173:G:N1	2.38	0.72
1:AA:865:A:H5'	1:AA:1078:U:O4	1.89	0.72
1:AA:1148:U:O2'	1:AA:1149:C:H5'	1.90	0.72
1:AA:113:G:H2'	1:AA:114:U:H6	1.53	0.72
1:AA:1401:G:H2'	1:AA:1402:C:O4'	1.89	0.72
1:AA:335:C:H1'	1:AA:1434:A:H1'	1.70	0.72
1:AA:622:A:H2'	1:AA:623:C:C5'	2.20	0.72
2:AC:74:C:C3'	2:AC:75:C:H5''	2.20	0.72
4:AE:97:TRP:CH2	4:AE:176:GLU:HG3	2.20	0.72
4:AE:55:PHE:CE2	4:AE:218:ALA:HA	2.20	0.72
4:AE:217:ARG:O	4:AE:220:ASP:HB2	1.88	0.72
5:AF:88:ARG:CZ	5:AF:101:LEU:H	2.02	0.72
5:AF:28:GLN:CD	5:AF:29:TYR:N	2.43	0.72
5:AF:50:ALA:HA	5:AF:72:LYS:HD2	1.72	0.72
6:AG:20:TYR:O	6:AG:22:LYS:N	2.22	0.72
7:AH:78:HIS:CE1	7:AH:142:LEU:HD23	2.25	0.72
1:AA:922:G:H5''	7:AH:20:GLN:HG2	1.72	0.72
8:AI:80:ARG:HG2	8:AI:80:ARG:HH11	1.52	0.72
10:AK:26:VAL:CG2	10:AK:27:PRO:HD2	2.16	0.72
13:AN:34:ASP:HB2	13:AN:35:PRO:CD	2.20	0.72
1:AA:538:G:C5'	14:AO:114:LYS:HD3	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:36:ILE:CG2	18:AS:55:ARG:HB3	2.19	0.72
19:AT:38:ARG:HG3	19:AT:39:SER:H	1.54	0.72
20:AU:66:LEU:HD12	20:AU:67:ALA:CA	2.19	0.72
24:BA:2623:G:H21	51:B4:22:HIS:CE1	2.01	0.72
24:BA:2286:A:C2	52:B5:27:LYS:HG2	2.25	0.72
53:B6:30:VAL:HG13	53:B6:33:ARG:NH1	2.05	0.72
54:B7:23:VAL:HG22	54:B7:47:LYS:O	1.88	0.72
55:B8:19:ARG:HD3	55:B8:22:ARG:HB3	1.72	0.72
24:BA:1252:G:H3'	24:BA:1253:A:O4'	1.89	0.72
24:BA:1664:A:H8	24:BA:1665:A:C5	2.08	0.72
24:BA:1697:G:H5'	24:BA:1698:A:H5'	1.72	0.72
24:BA:1819:A:OP2	27:BD:157:ARG:HA	1.88	0.72
24:BA:2009:G:H1'	38:BQ:107:ASP:HA	1.71	0.72
24:BA:2017:U:H4'	51:B4:8:LYS:NZ	2.05	0.72
24:BA:205:G:O2'	24:BA:206:U:P	2.47	0.72
24:BA:223:A:H5''	24:BA:422:A:H1'	1.72	0.72
24:BA:270(A):A:H62	24:BA:270(Y):G:H4'	1.55	0.72
24:BA:2838:G:O2'	38:BQ:45:ARG:NH1	2.22	0.72
24:BA:627:A:C2'	24:BA:628:G:O4'	2.32	0.72
24:BA:730:C:H2'	24:BA:731:C:H6	1.53	0.72
24:BA:60:G:N2	24:BA:74:A:H4'	2.00	0.72
24:BA:824:A:H5''	24:BA:825:C:OP2	1.89	0.72
24:BA:850:C:O2'	49:B2:22:ALA:HB2	1.90	0.72
27:BD:159:ALA:HA	27:BD:196:VAL:CG1	2.19	0.72
27:BD:7:LYS:CD	27:BD:25:THR:HB	2.18	0.72
29:BF:142:TRP:C	29:BF:145:GLU:HG2	2.10	0.72
30:BG:106:LEU:O	30:BG:110:ALA:HB3	1.88	0.72
31:BH:118:PRO:HG2	31:BH:121:ILE:HG21	1.72	0.72
34:BM:96:GLU:HG2	34:BM:97:ARG:N	2.03	0.72
24:BA:627:A:H5''	36:BO:75:ILE:CG1	2.19	0.72
38:BQ:37:THR:H	38:BQ:40:LYS:HD2	1.53	0.72
38:BQ:96:ARG:CG	38:BQ:98:LEU:HD21	2.17	0.72
40:BS:62:THR:HG22	40:BS:78:LEU:O	1.89	0.72
41:BT:85:LYS:HD3	41:BT:116:ALA:O	1.89	0.72
41:BT:92:ARG:HA	41:BT:95:LEU:CG	2.19	0.72
42:BU:83:ARG:NH2	42:BU:85:LYS:HE2	2.03	0.72
42:BU:64:HIS:HA	42:BU:97:LYS:HD2	1.70	0.72
43:BV:20:VAL:HG11	43:BV:47:VAL:HG11	1.71	0.72
46:BY:166:SER:OG	46:BY:167:PRO:HD2	1.90	0.72
3:AD:54:U:OP2	3:AD:55:U:O4	2.08	0.72
24:BA:2178:C:H5''	26:BC:46:LYS:HG2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1582:C:C3'	24:BA:1583:A:H5''	2.05	0.72
1:AA:1004:A:C8	1:AA:1036:G:O6	2.43	0.72
1:AA:137:C:H2'	1:AA:138:G:H5'	1.72	0.72
1:AA:197:A:H2'	1:AA:198:G:OP2	1.90	0.72
1:AA:49:U:C5	1:AA:361:G:N2	2.57	0.72
1:AA:698:G:H2'	1:AA:699:C:C6	2.25	0.72
1:AA:652:U:C4	1:AA:752:G:H2'	2.25	0.72
1:AA:82:U:H2'	1:AA:85:U:C5	2.24	0.72
1:AA:770:C:H1'	1:AA:900:A:C2	2.25	0.72
4:AE:118:LEU:HD22	4:AE:142:LEU:HD12	1.69	0.72
4:AE:175:ARG:HD3	4:AE:179:LYS:HZ2	1.52	0.72
4:AE:168:THR:OG1	4:AE:192:SER:HA	1.89	0.72
6:AG:100:ARG:O	6:AG:104:VAL:HG23	1.90	0.72
6:AG:104:VAL:CA	6:AG:107:ARG:HB2	2.20	0.72
6:AG:34:GLU:CD	6:AG:35:ARG:H	1.92	0.72
7:AH:102:ALA:HB1	7:AH:120:THR:CG2	2.18	0.72
9:AJ:20:ASP:HB3	9:AJ:23:VAL:CG2	2.20	0.72
9:AJ:72:ARG:HH22	9:AJ:138:LYS:HZ1	1.36	0.72
10:AK:46:LYS:HZ1	10:AK:65:TYR:H	1.36	0.72
10:AK:6:ILE:C	10:AK:6:ILE:HD13	2.10	0.72
1:AA:974:A:OP1	16:AQ:31:ARG:HG2	1.89	0.72
50:B3:31:ILE:HD13	50:B3:31:ILE:H	1.52	0.72
54:B7:42:ARG:HB3	54:B7:43:GLN:HE22	1.55	0.72
36:BO:45:LEU:HD22	54:B7:59:LYS:HE3	1.71	0.72
24:BA:1027:A:N6	24:BA:1126:A:H1'	2.04	0.72
24:BA:1025:G:H1'	24:BA:1134:G:H4'	1.70	0.72
24:BA:1165:U:H2'	24:BA:1166:C:C6	2.25	0.72
24:BA:1518:C:N4	24:BA:1519:G:C8	2.57	0.72
24:BA:1448:G:N2	24:BA:1529:A:H2	1.81	0.72
24:BA:13:A:N7	24:BA:15:G:O6	2.22	0.72
24:BA:1779:U:C2'	24:BA:1783:A:N6	2.44	0.72
24:BA:1818:U:C5	27:BD:156:ALA:HB3	2.25	0.72
24:BA:1953:A:H4'	24:BA:1953:A:OP1	1.90	0.72
24:BA:2020:A:N7	24:BA:2022:U:C4	2.58	0.72
24:BA:2225:A:H5'	24:BA:2226:C:O4'	1.90	0.72
24:BA:2426:A:C3'	24:BA:2427:C:H5'	2.20	0.72
24:BA:247:G:C5	24:BA:249:C:O2	2.43	0.72
24:BA:2060:A:N7	24:BA:2502:G:N2	2.38	0.72
24:BA:2681:C:O2'	24:BA:2682:U:C5'	2.31	0.72
24:BA:324:A:H2	24:BA:325:G:N9	1.88	0.72
24:BA:370:G:H2'	24:BA:370:G:N3	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:13:A:N6	25:BB:70:C:H5'	2.04	0.72
27:BD:11:PRO:HB2	27:BD:24:ILE:CG1	2.19	0.72
24:BA:1657:C:H5'	28:BE:133:LYS:HA	1.71	0.72
29:BF:78:ILE:HG12	29:BF:83:PHE:HZ	1.55	0.72
30:BG:170:ARG:O	30:BG:171:ALA:C	2.28	0.72
33:BL:11:GLN:HE21	33:BL:73:PRO:HG2	1.55	0.72
33:BL:40:ALA:HB2	33:BL:65:PHE:CE1	2.24	0.72
35:BN:17:ARG:CZ	35:BN:98:VAL:HG23	2.19	0.72
36:BO:123:LEU:HB2	36:BO:138:LEU:CB	2.20	0.72
37:BP:22:LYS:HZ1	37:BP:101:ARG:HE	1.36	0.72
37:BP:35:VAL:O	37:BP:35:VAL:HG22	1.88	0.72
39:BR:57:LYS:HD3	39:BR:57:LYS:C	2.10	0.72
41:BT:98:LEU:HB3	41:BT:105:VAL:CG1	2.20	0.72
42:BU:68:LYS:O	42:BU:69:LYS:HB2	1.88	0.72
43:BV:14:PRO:C	43:BV:16:LYS:NZ	2.43	0.72
24:BA:1266:G:O4'	43:BV:15:ARG:NH2	2.22	0.72
45:BX:14:LEU:HB2	45:BX:20:TYR:HA	1.71	0.72
45:BX:5:MET:HG3	45:BX:8:LYS:HZ2	1.54	0.72
46:BY:30:ASN:OD1	46:BY:33:LEU:HB2	1.89	0.72
24:BA:2355:C:H5'	47:BZ:36:ILE:HG22	1.72	0.72
47:BZ:50:ASN:HA	47:BZ:62:LEU:HD22	1.72	0.72
32:BK:91:SER:HB3	32:BK:121:LYS:CD	2.19	0.72
26:BC:76:ALA:HA	26:BC:114:VAL:HG23	1.70	0.72
26:BC:43:VAL:HG13	26:BC:213:TYR:O	1.90	0.72
24:BA:718:A:H3'	24:BA:719:C:H6	1.54	0.72
24:BA:2191:G:N2	24:BA:2192:G:H1'	2.05	0.72
1:AA:1058:G:O2'	1:AA:1059:C:H5'	1.90	0.72
1:AA:1319:A:OP2	21:AV:5:LEU:HD13	1.90	0.72
1:AA:1342:C:H1'	11:AL:124:GLN:HB2	1.71	0.72
1:AA:305:G:O2'	1:AA:306:G:P	2.47	0.72
1:AA:307:C:H42	1:AA:308:C:H41	1.35	0.72
4:AE:18:GLY:N	4:AE:41:ILE:HG23	2.05	0.72
4:AE:69:LEU:HD13	4:AE:70:PHE:N	2.04	0.72
4:AE:87:ARG:O	4:AE:89:GLY:N	2.23	0.72
5:AF:91:LEU:HD11	5:AF:99:VAL:H	1.53	0.72
7:AH:72:GLN:CG	7:AH:77:PRO:HD3	2.16	0.72
9:AJ:99:LEU:HD23	9:AJ:102:ARG:HB3	1.70	0.72
7:AH:78:HIS:HB3	10:AK:104:ARG:HB3	1.70	0.72
10:AK:25:ASP:HB2	10:AK:58:TYR:CD2	2.25	0.72
10:AK:65:TYR:HA	10:AK:79:VAL:HG23	1.71	0.72
12:AM:15:THR:HG23	12:AM:16:LEU:CD2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:44:THR:CB	14:AO:45:PRO:HD2	2.13	0.72
14:AO:35:GLY:O	14:AO:82:VAL:CA	2.38	0.72
24:BA:988:A:H5''	49:B2:10:LYS:HD3	1.70	0.72
50:B3:40:HIS:HB3	50:B3:41:PRO:CD	2.19	0.72
50:B3:56:VAL:HB	50:B3:61:ARG:HG2	1.70	0.72
24:BA:650:C:OP1	54:B7:21:LYS:NZ	2.23	0.72
24:BA:1024:G:H5''	24:BA:1025:G:C4	2.25	0.72
24:BA:1424:G:H2'	24:BA:1425:G:O5'	1.90	0.72
24:BA:1444:G:H3'	24:BA:1445:C:C5	2.25	0.72
24:BA:1636:C:H1'	24:BA:1761:C:H1'	1.70	0.72
24:BA:1799:G:C5	24:BA:1819:A:N7	2.57	0.72
3:AD:71:G:H1'	24:BA:1851:U:O2'	1.90	0.72
24:BA:1967:C:H42	24:BA:1968:G:H22	1.37	0.72
24:BA:1992:G:C1'	24:BA:1993:U:O4	2.37	0.72
24:BA:204:A:H4'	24:BA:205:G:H5'	1.71	0.72
24:BA:2062:A:H2'	24:BA:2063:C:OP1	1.89	0.72
24:BA:2314:C:O2'	24:BA:2315:G:H5'	1.90	0.72
24:BA:2346:A:H1'	24:BA:2383:G:N9	2.05	0.72
24:BA:2594:C:H2'	24:BA:2595:G:C8	2.25	0.72
24:BA:2764:A:N7	24:BA:2766:G:C5	2.57	0.72
24:BA:558:G:C2'	24:BA:559:G:H5''	2.18	0.72
24:BA:592:G:H1'	54:B7:1:MET:O	1.90	0.72
24:BA:621:A:N6	24:BA:622:G:N3	2.38	0.72
24:BA:728:G:H21	24:BA:730:C:C5'	2.03	0.72
24:BA:866:A:N6	24:BA:913:U:O2'	2.23	0.72
24:BA:890:A:H5'	24:BA:892:G:H5''	1.70	0.72
25:BB:103:U:O2	46:BY:72:ARG:CZ	2.38	0.72
27:BD:208:LYS:HG2	27:BD:211:ARG:HG2	1.71	0.72
24:BA:1799:G:H5''	27:BD:268:ARG:NH1	2.05	0.72
27:BD:5:LYS:HG3	27:BD:82:ILE:N	1.98	0.72
28:BE:119:ARG:NH1	28:BE:155:LYS:HD2	2.04	0.72
28:BE:98:PRO:HD3	28:BE:175:VAL:HG13	1.71	0.72
30:BG:55:LYS:HE3	30:BG:151:ALA:HB3	1.72	0.72
31:BH:89:ILE:HG12	31:BH:94:TYR:CD2	2.25	0.72
35:BN:8:LEU:HD11	35:BN:19:ILE:HD11	1.71	0.72
37:BP:74:TYR:HH	37:BP:94:VAL:H	1.37	0.72
37:BP:77:LYS:HD2	37:BP:77:LYS:N	2.05	0.72
37:BP:96:VAL:HG12	37:BP:98:LYS:HZ1	1.55	0.72
38:BQ:38:VAL:HB	38:BQ:39:PRO:CD	2.19	0.72
24:BA:2334:G:H5'	39:BR:8:GLU:OE1	1.89	0.72
40:BS:63:VAL:O	40:BS:64:ARG:NH1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1155:A:O3'	41:BT:55:ARG:NH2	2.22	0.72
45:BX:2:ARG:HD2	45:BX:3:VAL:H	1.55	0.72
32:BK:110:ASP:OD2	32:BK:112:LYS:HB2	1.90	0.72
32:BK:115:ALA:HB3	32:BK:128:LEU:HD12	1.70	0.72
32:BK:68:LEU:O	32:BK:72:LEU:HG	1.90	0.72
26:BC:225:ASN:C	26:BC:227:HIS:H	1.93	0.72
1:AA:1145:C:H1'	1:AA:1146:A:C8	2.25	0.72
1:AA:1195:C:H5'	1:AA:1196:U:OP2	1.89	0.72
1:AA:131:C:O2'	1:AA:262:A:H1'	1.90	0.72
1:AA:440:A:O5'	1:AA:440:A:H8	1.71	0.72
1:AA:484:G:C8	1:AA:486:U:N3	2.58	0.72
1:AA:872:A:HO2'	1:AA:873:A:P	2.13	0.72
4:AE:200:ILE:O	4:AE:200:ILE:HG22	1.90	0.72
4:AE:222:ILE:HD12	4:AE:223:ILE:H	1.52	0.72
4:AE:82:ARG:CB	4:AE:94:ASN:HD21	2.02	0.72
6:AG:64:LEU:HD13	6:AG:65:ARG:N	2.05	0.72
10:AK:104:ARG:HH11	10:AK:104:ARG:HG2	1.55	0.72
1:AA:755:G:N3	10:AK:1:MET:HE1	2.05	0.72
10:AK:29:SER:HB3	10:AK:32:LYS:NZ	2.04	0.72
11:AL:70:LYS:H	11:AL:70:LYS:CD	1.95	0.72
11:AL:93:ARG:NH1	11:AL:97:LYS:HD3	2.05	0.72
13:AN:79:SER:HA	13:AN:104:GLN:HE21	1.54	0.72
17:AR:75:PRO:C	17:AR:78:TYR:HB3	2.09	0.72
20:AU:47:THR:HA	20:AU:83:GLU:O	1.90	0.72
21:AV:11:VAL:HG12	21:AV:15:LEU:CD1	2.18	0.72
22:AW:83:ARG:HA	22:AW:86:ARG:CD	2.18	0.72
1:AA:1305:G:H5'	23:AX:5:ASP:N	2.04	0.72
50:B3:21:VAL:HG12	50:B3:22:ILE:N	2.05	0.72
51:B4:18:ALA:C	51:B4:21:SER:OG	2.29	0.72
52:B5:20:ASN:HD21	52:B5:43:CYS:CB	2.02	0.72
53:B6:41:ARG:HH11	53:B6:42:LEU:H	1.38	0.72
24:BA:2467:C:OP1	55:B8:8:LYS:HE3	1.89	0.72
24:BA:1102:C:H2'	24:BA:1102:C:O2	1.89	0.72
24:BA:1166:C:H2'	24:BA:1167:U:H6	1.54	0.72
24:BA:118:A:O2'	24:BA:178:G:H5'	1.90	0.72
24:BA:1204:A:H62	36:BO:6:LEU:N	1.87	0.72
24:BA:1518:C:H2'	24:BA:1519:G:C4'	2.19	0.72
24:BA:1692:U:H1'	24:BA:1696:G:N2	2.05	0.72
1:AA:702:A:C2	24:BA:1848:A:C5	2.78	0.72
24:BA:2581:G:C6	24:BA:2610:C:C6	2.77	0.72
24:BA:2615:U:H1'	51:B4:7:PRO:HB3	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:663:G:P	36:BO:18:ARG:HB3	2.29	0.72
24:BA:673:C:H5''	29:BF:81:PRO:HG3	1.72	0.72
24:BA:807:U:O2	24:BA:808:G:C8	2.43	0.72
27:BD:97:TYR:HB2	27:BD:101:GLU:O	1.90	0.72
24:BA:1658:C:OP1	28:BE:134:ILE:CD1	2.36	0.72
28:BE:51:PHE:HB3	28:BE:76:ARG:HD3	1.71	0.72
29:BF:125:LEU:CD2	29:BF:128:ALA:HB2	2.18	0.72
29:BF:8:GLN:HB3	29:BF:18:ARG:HG2	1.70	0.72
30:BG:145:THR:OG1	30:BG:146:TYR:N	2.22	0.72
31:BH:133:VAL:HG22	31:BH:134:SER:H	1.55	0.72
34:BM:74:ARG:CB	34:BM:82:LEU:HB3	2.13	0.72
24:BA:662:G:H4'	36:BO:18:ARG:N	2.05	0.72
37:BP:132:VAL:HG11	37:BP:133:ARG:HH21	1.55	0.72
39:BR:17:ARG:O	39:BR:20:ARG:HG2	1.90	0.72
41:BT:47:TYR:O	41:BT:51:LYS:HG3	1.89	0.72
41:BT:57:PHE:HA	41:BT:60:LEU:HB2	1.72	0.72
42:BU:1:MET:CA	42:BU:44:LYS:HB3	2.20	0.72
43:BV:27:LYS:H	43:BV:71:VAL:CG1	2.02	0.72
44:BW:49:VAL:HA	44:BW:88:LYS:HG3	1.71	0.72
46:BY:152:ALA:HA	46:BY:155:LEU:CD1	2.20	0.72
32:BK:127:VAL:HA	32:BK:140:LEU:O	1.90	0.72
26:BC:149:ILE:CG1	26:BC:153:ILE:HD11	2.19	0.72
26:BC:19:ILE:CG2	26:BC:223:ARG:HG2	2.18	0.72
1:AA:1449:C:H2'	1:AA:1450:U:H5'	1.71	0.71
1:AA:228:A:H2'	1:AA:229:U:C5'	2.20	0.71
1:AA:503:C:O2	1:AA:510:A:H2	1.73	0.71
1:AA:566:G:H4'	1:AA:567:G:OP1	1.89	0.71
1:AA:691:G:H22	13:AN:51:LYS:HZ1	1.38	0.71
3:AD:38:A:C2	3:AD:39:U:C6	2.78	0.71
4:AE:104:ASN:CG	4:AE:104:ASN:O	2.27	0.71
6:AG:26:CYS:HA	6:AG:31:CYS:CB	2.19	0.71
10:AK:65:TYR:C	10:AK:67:PRO:HD3	2.10	0.71
12:AM:47:PHE:CZ	12:AM:65:LEU:HB3	2.25	0.71
13:AN:85:ARG:HE	13:AN:111:ASP:HB3	1.55	0.71
14:AO:68:ALA:HA	14:AO:98:TYR:O	1.90	0.71
15:AP:20:THR:HA	15:AP:25:ILE:CG2	2.20	0.71
18:AS:54:GLU:C	18:AS:54:GLU:CD	2.43	0.71
19:AT:88:TYR:HA	19:AT:91:ARG:NH2	2.05	0.71
13:AN:110:ASP:HA	20:AU:88:LYS:HD2	1.70	0.71
21:AV:30:LEU:HA	21:AV:48:THR:O	1.89	0.71
49:B2:10:LYS:HG2	49:B2:12:PRO:CD	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:19:GLY:HA2	50:B3:32:TYR:CZ	2.25	0.71
52:B5:20:ASN:HD21	52:B5:43:CYS:CA	2.03	0.71
24:BA:1081:U:H2'	24:BA:1082:U:O4'	1.90	0.71
24:BA:1087:G:H2'	24:BA:1089:G:O4'	1.90	0.71
24:BA:120:U:C6	24:BA:150:C:H5	2.08	0.71
24:BA:122:G:H2'	24:BA:123:G:H8	1.53	0.71
24:BA:146:G:H2'	24:BA:147:U:H5''	1.72	0.71
24:BA:1911:U:HO2'	24:BA:1912:A:H5'	1.50	0.71
24:BA:214:G:H2'	24:BA:215:G:O4'	1.89	0.71
24:BA:2210:G:C5	27:BD:150:LYS:CA	2.69	0.71
24:BA:2415:G:H5''	36:BO:61:ARG:CG	2.20	0.71
24:BA:2459:A:N3	24:BA:2460:U:C2'	2.53	0.71
24:BA:2618:G:O2'	24:BA:2619:C:H5'	1.90	0.71
24:BA:2637:U:OP2	24:BA:2637:U:C6	2.43	0.71
24:BA:418:G:O2'	24:BA:419:C:H5'	1.90	0.71
24:BA:585:G:N1	24:BA:1251:C:C5	2.57	0.71
24:BA:604:G:C6	24:BA:605:C:N4	2.58	0.71
24:BA:874:G:C2'	24:BA:874:G:N3	2.53	0.71
25:BB:114:G:H1'	39:BR:38:GLN:NE2	2.05	0.71
25:BB:31:C:O2'	25:BB:53:A:N6	2.22	0.71
27:BD:38:LYS:HD2	27:BD:39:LYS:N	2.04	0.71
28:BE:100:GLU:O	28:BE:172:VAL:HG22	1.90	0.71
28:BE:171:GLU:CB	28:BE:185:LYS:HD2	2.20	0.71
31:BH:103:LEU:HD11	31:BH:148:ILE:HD13	1.71	0.71
31:BH:94:TYR:O	31:BH:95:ARG:HD2	1.89	0.71
34:BM:22:THR:HG22	34:BM:61:ARG:CZ	2.20	0.71
36:BO:121:LYS:O	36:BO:122:PRO:O	2.07	0.71
36:BO:121:LYS:CA	36:BO:137:LYS:HB2	2.20	0.71
37:BP:106:VAL:HG22	37:BP:107:ALA:H	1.54	0.71
40:BS:30:VAL:CG1	40:BS:32:TYR:OH	2.35	0.71
42:BU:83:ARG:HG2	42:BU:84:LYS:N	2.04	0.71
24:BA:519:U:H4'	43:BV:74:ALA:O	1.90	0.71
44:BW:89:ILE:HG23	44:BW:92:LEU:CD2	2.20	0.71
45:BX:28:LYS:CE	45:BX:28:LYS:H	2.03	0.71
46:BY:4:ARG:HE	46:BY:44:PHE:HZ	1.38	0.71
46:BY:95:PRO:HG2	46:BY:131:ARG:CG	2.19	0.71
24:BA:2120:G:N2	26:BC:167:LYS:HD3	2.05	0.71
26:BC:10:LEU:HD21	26:BC:220:PRO:CD	2.17	0.71
26:BC:81:GLU:HG3	26:BC:82:LYS:H	1.52	0.71
1:AA:1037:C:H2'	1:AA:1038:C:H6	1.53	0.71
1:AA:1102:A:C6	1:AA:1103:C:N4	2.58	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1151:A:OP1	12:AM:41:PRO:HA	1.90	0.71
1:AA:1178:G:H2'	1:AA:1180:A:OP2	1.89	0.71
1:AA:262:A:H5'	22:AW:74:LYS:HG3	1.71	0.71
1:AA:955:U:H2'	1:AA:956:U:H6	1.54	0.71
1:AA:964:A:OP1	1:AA:1199:U:OP1	2.07	0.71
2:AC:48:C:H5'	2:AC:49:G:O5'	1.90	0.71
4:AE:170:GLU:O	4:AE:172:ILE:HG13	1.90	0.71
4:AE:68:ILE:HG13	4:AE:90:MET:HG3	1.72	0.71
6:AG:116:GLN:O	6:AG:119:GLN:HB3	1.90	0.71
8:AI:49:ALA:HB1	20:AU:80:PRO:HD3	1.71	0.71
8:AI:89:MET:CE	20:AU:75:ILE:HG21	2.20	0.71
10:AK:18:ARG:HH12	10:AK:78:GLN:NE2	1.86	0.71
1:AA:878:G:H5''	10:AK:89:PRO:HG2	1.72	0.71
12:AM:12:ASP:HB3	12:AM:15:THR:CG2	2.19	0.71
12:AM:3:LYS:HZ2	12:AM:3:LYS:N	1.88	0.71
12:AM:90:LEU:H	12:AM:91:PRO:HD2	1.55	0.71
13:AN:23:ALA:HB1	13:AN:88:GLY:HA2	1.68	0.71
15:AP:120:LYS:O	15:AP:121:LYS:HB2	1.90	0.71
15:AP:14:ARG:HG3	15:AP:17:VAL:HG23	1.72	0.71
15:AP:66:LEU:O	15:AP:70:LEU:HB2	1.90	0.71
15:AP:81:LEU:HA	15:AP:84:ILE:HD11	1.71	0.71
15:AP:80:ARG:O	15:AP:84:ILE:HG23	1.90	0.71
16:AQ:41:ARG:O	16:AQ:45:ARG:HG2	1.90	0.71
18:AS:43:LYS:HA	18:AS:48:TRP:CE3	2.25	0.71
1:AA:1314:C:C6	21:AV:6:LYS:HG3	2.25	0.71
50:B3:33:VAL:HG12	50:B3:35:VAL:HG23	1.72	0.71
50:B3:7:PRO:HD2	50:B3:56:VAL:CG1	2.15	0.71
52:B5:22:ALA:CB	52:B5:39:TYR:HE2	2.01	0.71
24:BA:1620:G:O4'	53:B6:1:MET:N	2.23	0.71
24:BA:1708:C:H2'	24:BA:1709:U:C5'	2.19	0.71
24:BA:532:A:P	24:BA:2021:C:N4	2.63	0.71
24:BA:2238:G:C2'	24:BA:2239:G:H5''	2.20	0.71
24:BA:2287:A:C8	24:BA:2289:G:N7	2.59	0.71
24:BA:2440:C:H5''	24:BA:2587:A:H4'	1.70	0.71
24:BA:2491:U:C5	24:BA:2492:U:H5'	2.23	0.71
24:BA:2888:C:H2'	24:BA:2889:C:H6	1.55	0.71
24:BA:715:G:H2'	24:BA:716:A:O5'	1.90	0.71
30:BG:74:LYS:O	30:BG:87:PRO:HG2	1.90	0.71
33:BL:77:LEU:CB	33:BL:111:LYS:HZ2	2.03	0.71
34:BM:34:LEU:CD2	34:BM:116:LEU:HD21	2.17	0.71
35:BN:60:ALA:N	35:BN:86:ILE:HD13	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:98:GLU:O	36:BO:99:LEU:C	2.28	0.71
37:BP:111:GLU:HB2	37:BP:113:GLN:HE21	1.53	0.71
24:BA:2495:G:C5'	37:BP:82:ARG:HA	2.19	0.71
43:BV:8:ARG:HD3	43:BV:102:HIS:CE1	2.26	0.71
44:BW:8:ILE:C	44:BW:9:LEU:HG	2.09	0.71
45:BX:46:LYS:HZ3	45:BX:47:LYS:HG3	1.54	0.71
26:BC:211:SER:HA	26:BC:223:ARG:HH21	1.55	0.71
26:BC:73:ARG:HH11	26:BC:93:TYR:HE2	1.39	0.71
1:AA:1058:G:H8	1:AA:1058:G:O5'	1.73	0.71
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.56	0.71
1:AA:1243:C:P	23:AX:10:ARG:HD2	2.29	0.71
1:AA:26:A:H61	1:AA:558:G:C2'	2.02	0.71
1:AA:440:A:N6	1:AA:494:U:C5	2.57	0.71
1:AA:530:G:C3'	1:AA:530:G:N3	2.53	0.71
1:AA:741:G:O2'	1:AA:742:G:H5'	1.90	0.71
2:AC:8:U:O4'	2:AC:48:C:O2'	2.08	0.71
5:AF:5:ILE:CG2	12:AM:51:ARG:HH22	2.03	0.71
6:AG:147:ALA:CB	6:AG:182:LYS:HA	2.17	0.71
7:AH:9:LYS:HG2	7:AH:112:LEU:HD23	1.73	0.71
12:AM:34:VAL:HA	12:AM:74:ILE:HG12	1.72	0.71
13:AN:27:ASN:HB2	13:AN:55:LYS:HB3	1.72	0.71
18:AS:7:ALA:HB3	18:AS:18:ARG:HB2	1.72	0.71
19:AT:12:SER:O	19:AT:20:THR:HG23	1.91	0.71
1:AA:189:U:H2'	19:AT:63:ARG:NH2	2.05	0.71
8:AI:89:MET:CE	20:AU:75:ILE:HD13	2.20	0.71
24:BA:1542:G:C1'	24:BA:1543:A:C6	2.72	0.71
24:BA:1552:G:H5'	24:BA:1553:A:OP1	1.90	0.71
24:BA:15:G:H4'	51:B4:21:SER:HB3	1.71	0.71
24:BA:1665:A:C5'	35:BN:66:LYS:HB2	2.19	0.71
24:BA:1718:G:O6	24:BA:1735:C:N4	2.24	0.71
24:BA:1824:G:O2'	27:BD:246:PRO:HB3	1.90	0.71
24:BA:1981:A:H5''	24:BA:1982:C:OP2	1.91	0.71
24:BA:2654:A:C1'	24:BA:2656:U:C5	2.73	0.71
24:BA:2704:C:H2'	24:BA:2705:A:N9	2.04	0.71
24:BA:849:A:O2'	49:B2:17:LYS:NZ	2.24	0.71
24:BA:954:G:OP1	37:BP:17:LEU:HB3	1.89	0.71
24:BA:957:A:N6	24:BA:959:A:C4	2.58	0.71
27:BD:124:PRO:HD2	27:BD:129:ASN:ND2	2.04	0.71
24:BA:1818:U:OP1	27:BD:158:ALA:HB2	1.89	0.71
27:BD:244:ARG:HA	27:BD:252:TRP:NE1	2.05	0.71
29:BF:158:THR:CG2	29:BF:195:ASP:HB2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:105:LYS:HZ1	30:BG:139:LEU:HD13	1.54	0.71
30:BG:39:ILE:HD12	30:BG:39:ILE:N	2.05	0.71
30:BG:47:LYS:HZ3	30:BG:73:ALA:CB	1.98	0.71
30:BG:49:ASP:N	30:BG:53:LEU:HD13	2.05	0.71
31:BH:7:LEU:N	31:BH:8:PRO:CD	2.47	0.71
32:BK:25:TYR:O	32:BK:30:LEU:HD12	1.90	0.71
35:BN:108:GLU:HB3	35:BN:111:PHE:CE2	2.25	0.71
35:BN:35:VAL:HA	35:BN:61:VAL:CG1	2.20	0.71
39:BR:32:LEU:HD12	39:BR:32:LEU:H	1.54	0.71
39:BR:62:LYS:HB3	39:BR:65:VAL:N	2.04	0.71
40:BS:113:LYS:HA	40:BS:116:ALA:HB3	1.72	0.71
41:BT:44:ASN:O	41:BT:47:TYR:CB	2.37	0.71
44:BW:50:LYS:CG	44:BW:84:ALA:HB3	2.19	0.71
45:BX:14:LEU:O	45:BX:20:TYR:HA	1.90	0.71
45:BX:13:VAL:HG23	45:BX:20:TYR:O	1.90	0.71
45:BX:7:VAL:HG11	45:BX:72:VAL:H	1.53	0.71
32:BK:69:LYS:HZ2	32:BK:70:LYS:HG2	1.54	0.71
1:AA:944:G:H21	1:AA:1339:A:H62	1.37	0.71
1:AA:1408:A:H62	1:AA:1409:C:N4	1.87	0.71
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.24	0.71
1:AA:486:U:H2'	1:AA:486:U:O2	1.89	0.71
1:AA:668:G:O2'	1:AA:669:U:H5'	1.90	0.71
4:AE:12:GLU:O	4:AE:14:GLY:N	2.23	0.71
4:AE:176:GLU:O	4:AE:180:LEU:CG	2.30	0.71
4:AE:219:VAL:HG12	4:AE:223:ILE:CD1	2.21	0.71
4:AE:233:SER:HB3	4:AE:234:PRO:HD2	1.70	0.71
12:AM:79:ARG:HD3	12:AM:79:ARG:C	2.11	0.71
13:AN:27:ASN:OD1	13:AN:28:THR:N	2.23	0.71
14:AO:101:VAL:CG2	14:AO:104:VAL:HG21	2.19	0.71
15:AP:3:ARG:HB2	30:BG:141:PHE:HE1	1.54	0.71
1:AA:1312:G:N7	21:AV:2:PRO:O	2.24	0.71
52:B5:37:ARG:O	52:B5:38:LYS:HB2	1.91	0.71
24:BA:1028:A:OP2	24:BA:1126:A:N6	2.23	0.71
24:BA:974:G:H1'	24:BA:1186:G:C4	2.25	0.71
24:BA:1300:U:H2'	24:BA:1626:G:N2	2.06	0.71
24:BA:1364:G:OP1	50:B3:3:GLU:HB2	1.90	0.71
24:BA:1453:A:C6	24:BA:1454:U:H1'	2.25	0.71
24:BA:14:A:N7	24:BA:15:G:N9	2.37	0.71
24:BA:1664:A:H8	24:BA:1665:A:N7	1.89	0.71
24:BA:2225:A:C5'	24:BA:2226:C:O4'	2.38	0.71
24:BA:234:C:H42	24:BA:430:G:H22	1.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2447:G:O3'	24:BA:2499:C:OP1	2.07	0.71
24:BA:2458:G:N7	24:BA:2490:G:C5	2.59	0.71
24:BA:2576:G:N7	24:BA:2580:U:O4	2.22	0.71
24:BA:2627:G:O2'	24:BA:2628:C:H5''	1.89	0.71
24:BA:744:G:H2'	24:BA:745:G:N7	2.05	0.71
24:BA:754:C:H4'	24:BA:1618:A:C2	2.25	0.71
28:BE:32:PRO:HG3	28:BE:88:GLY:CA	2.21	0.71
29:BF:134:GLY:C	29:BF:165:ARG:HH12	1.93	0.71
32:BK:31:LEU:N	32:BK:32:PRO:CD	2.53	0.71
33:BL:51:ALA:HA	33:BL:80:LYS:HB3	1.72	0.71
34:BM:51:PHE:CD2	34:BM:119:ARG:HA	2.26	0.71
34:BM:39:ARG:HB2	34:BM:48:MET:CE	2.20	0.71
36:BO:121:LYS:C	36:BO:137:LYS:CB	2.56	0.71
37:BP:68:ILE:HG12	37:BP:97:VAL:HG13	1.73	0.71
39:BR:33:LYS:HG2	39:BR:54:LEU:HD21	1.72	0.71
39:BR:62:LYS:CD	39:BR:64:GLU:HB3	2.21	0.71
40:BS:111:ARG:H	40:BS:111:ARG:NH1	1.85	0.71
40:BS:80:SER:HB3	40:BS:81:PRO:CD	2.20	0.71
42:BU:28:GLU:C	42:BU:30:GLY:H	1.93	0.71
42:BU:6:LYS:HD3	42:BU:10:LYS:CB	2.20	0.71
42:BU:78:LYS:HA	42:BU:83:ARG:O	1.89	0.71
42:BU:67:GLY:N	42:BU:94:LEU:HA	2.06	0.71
45:BX:29:GLU:OE1	45:BX:32:PRO:HG2	1.91	0.71
46:BY:82:ARG:HG2	46:BY:83:PRO:HD2	1.71	0.71
25:BB:12:C:C4'	47:BZ:74:ARG:HE	2.03	0.71
26:BC:6:ARG:O	26:BC:6:ARG:HD2	1.90	0.71
26:BC:73:ARG:HH11	26:BC:73:ARG:HB2	1.54	0.71
24:BA:1575:C:N4	24:BA:1576:U:C4	2.58	0.71
24:BA:161:U:N3	24:BA:171:G:N2	2.38	0.71
1:AA:1187:G:C4	1:AA:1188:A:N7	2.58	0.71
1:AA:1210:C:H4'	1:AA:1214:C:N4	2.05	0.71
1:AA:277:C:H5''	19:AT:68:ARG:NH2	2.05	0.71
1:AA:453:A:H62	1:AA:480:U:H3	1.36	0.71
1:AA:517:G:O2'	1:AA:530:G:H4'	1.91	0.71
1:AA:876:G:O2'	10:AK:11:THR:HG21	1.89	0.71
4:AE:219:VAL:O	4:AE:223:ILE:HG13	1.90	0.71
6:AG:151:LYS:HD2	6:AG:151:LYS:H	1.56	0.71
7:AH:151:LEU:HD11	10:AK:67:PRO:CG	2.20	0.71
8:AI:53:ALA:CB	8:AI:86:ARG:HD2	2.20	0.71
8:AI:80:ARG:HG2	8:AI:88:VAL:HG11	1.72	0.71
14:AO:37:CYS:HA	14:AO:57:LYS:O	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:950:U:H5''	15:AP:102:ARG:NH2	2.03	0.71
19:AT:7:THR:O	19:AT:23:VAL:HG23	1.90	0.71
55:B8:9:ARG:NH2	55:B8:16:VAL:HG12	2.05	0.71
24:BA:1061:U:H4'	24:BA:1070:A:H4'	1.70	0.71
24:BA:1520:U:C6	24:BA:1520:U:OP2	2.44	0.71
24:BA:1602:U:C6	24:BA:1602:U:C3'	2.69	0.71
24:BA:699:A:H1'	24:BA:1634:A:C8	2.26	0.71
24:BA:1697:G:O6	24:BA:1698:A:N6	2.24	0.71
24:BA:2020:A:H2'	24:BA:2021:C:H5''	1.71	0.71
24:BA:2358:G:H8	24:BA:2358:G:OP1	1.72	0.71
24:BA:2784:C:H1'	28:BE:41:LYS:HZ2	1.56	0.71
24:BA:324:A:C2	24:BA:325:G:C4	2.78	0.71
24:BA:329:G:H4'	24:BA:330:A:OP2	1.89	0.71
24:BA:356:G:H3'	24:BA:357:A:C8	2.25	0.71
24:BA:566:U:C5'	42:BU:82:ARG:NH1	2.51	0.71
25:BB:16:G:H2'	25:BB:17:C:H6	1.56	0.71
25:BB:52:A:C6	25:BB:53:A:H1'	2.25	0.71
25:BB:67:G:H2'	25:BB:68:C:C6	2.26	0.71
27:BD:134:ARG:C	27:BD:136:ILE:H	1.90	0.71
27:BD:132:PRO:HG2	27:BD:135:PHE:CE1	2.25	0.71
27:BD:14:ARG:NE	27:BD:14:ARG:HA	2.05	0.71
24:BA:781:A:H1'	27:BD:222:ARG:NH2	2.05	0.71
27:BD:261:LYS:C	27:BD:263:ARG:N	2.35	0.71
24:BA:1816:G:O6	27:BD:38:LYS:HE2	1.89	0.71
28:BE:151:TYR:CZ	28:BE:152:LYS:HG3	2.25	0.71
29:BF:36:VAL:HG11	29:BF:183:VAL:CG2	2.20	0.71
30:BG:68:PRO:CB	30:BG:72:ARG:HH12	2.02	0.71
31:BH:52:VAL:HG22	31:BH:65:HIS:ND1	2.05	0.71
24:BA:1665:A:C1'	35:BN:1:MET:HG2	2.21	0.71
36:BO:114:ILE:HB	36:BO:130:PHE:HA	1.71	0.71
36:BO:16:ARG:HG2	36:BO:19:VAL:CG2	2.21	0.71
37:BP:32:TYR:OH	37:BP:108:GLY:HA2	1.89	0.71
37:BP:62:GLY:HA2	46:BY:177:PRO:HB3	1.70	0.71
40:BS:50:ILE:CG2	40:BS:68:TYR:HB2	2.19	0.71
24:BA:2126:A:H1'	24:BA:2162:G:N2	2.06	0.71
24:BA:2162:G:H2'	24:BA:2163:C:H5'	1.72	0.71
26:BC:71:GLN:HG3	26:BC:72:VAL:H	1.52	0.71
47:BZ:5:LYS:HG2	47:BZ:6:GLY:N	2.06	0.71
1:AA:1507:A:O2'	1:AA:1508:G:H5'	1.91	0.71
1:AA:184:G:H5'	1:AA:224:C:H4'	1.73	0.71
1:AA:247:G:O2'	1:AA:248:C:H5'	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:426:G:P	6:AG:45:GLN:HE22	2.13	0.71
2:AC:28:C:H2'	2:AC:29:G:C8	2.20	0.71
4:AE:165:VAL:HG23	4:AE:166:ASP:H	1.54	0.71
4:AE:61:LEU:CA	4:AE:64:ARG:NH1	2.53	0.71
4:AE:72:GLY:HA3	4:AE:165:VAL:HG13	1.71	0.71
5:AF:91:LEU:CD1	5:AF:99:VAL:H	2.03	0.71
7:AH:15:ARG:HG3	7:AH:15:ARG:HH11	1.54	0.71
8:AI:45:LEU:CG	8:AI:59:TYR:HD1	2.03	0.71
8:AI:67:MET:SD	8:AI:67:MET:N	2.62	0.71
9:AJ:111:ARG:NH1	9:AJ:112:PRO:HD2	2.06	0.71
11:AL:84:ALA:O	11:AL:87:GLN:HB2	1.90	0.71
17:AR:77:ARG:NH1	17:AR:77:ARG:O	2.24	0.71
18:AS:75:ARG:CA	18:AS:80:PHE:HB2	2.13	0.71
19:AT:8:GLY:HA3	19:AT:22:LEU:O	1.91	0.71
52:B5:22:ALA:O	52:B5:23:THR:OG1	2.08	0.71
52:B5:8:LYS:HE2	52:B5:29:ASN:CA	2.13	0.71
53:B6:25:PRO:CA	53:B6:28:ARG:HH21	2.03	0.71
53:B6:28:ARG:O	53:B6:31:LEU:HB2	1.91	0.71
54:B7:6:THR:O	54:B7:6:THR:HG23	1.89	0.71
24:BA:149:A:H61	24:BA:176:G:H1	1.39	0.71
24:BA:1934:C:H5'	24:BA:1974:C:O2'	1.90	0.71
24:BA:2056:G:OP2	24:BA:2057:A:OP2	2.08	0.71
24:BA:2498:C:OP2	24:BA:2498:C:H3'	1.91	0.71
24:BA:2587:A:O2'	24:BA:2588:G:H5'	1.90	0.71
24:BA:2636:U:H1'	24:BA:2783:G:H22	1.51	0.71
24:BA:270(Z):U:H3'	24:BA:271(A):C:H5''	1.68	0.71
24:BA:2765:A:H2'	24:BA:2765:A:N3	2.06	0.71
24:BA:2835:A:H1'	24:BA:2836:U:H5	1.53	0.71
24:BA:59:U:O5'	24:BA:59:U:H6	1.74	0.71
24:BA:705:A:N6	24:BA:727:A:C1'	2.53	0.71
24:BA:776:G:O2'	24:BA:777:A:OP2	2.07	0.71
24:BA:569:U:P	24:BA:945:A:N6	2.63	0.71
25:BB:103:U:C2'	25:BB:104:A:H5'	2.21	0.71
27:BD:142:VAL:O	27:BD:163:ALA:CB	2.38	0.71
24:BA:2821:A:OP2	28:BE:110:GLY:O	2.07	0.71
24:BA:450:G:H5'	29:BF:52:LYS:HD3	1.72	0.71
30:BG:77:ILE:O	30:BG:83:ARG:NE	2.23	0.71
31:BH:35:VAL:HG13	31:BH:75:ALA:HB2	1.72	0.71
34:BM:24:GLY:O	34:BM:27:ALA:HB3	1.90	0.71
34:BM:57:ALA:O	34:BM:60:ILE:HG13	1.91	0.71
34:BM:68:GLU:H	34:BM:70:LYS:HE2	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:5:GLN:HG2	35:BN:20:MET:SD	2.30	0.71
35:BN:70:LYS:HD3	35:BN:107:ARG:NH2	2.04	0.71
36:BO:107:LYS:HE2	36:BO:110:TYR:HB3	1.71	0.71
24:BA:663:G:P	36:BO:18:ARG:HD2	2.30	0.71
24:BA:2467:C:C4'	37:BP:123:HIS:HE2	2.03	0.71
37:BP:125:LEU:HB3	37:BP:126:PRO:HD3	1.72	0.71
37:BP:22:LYS:HD2	37:BP:99:PRO:CB	2.20	0.71
40:BS:32:TYR:HB3	40:BS:88:ILE:HA	1.71	0.71
42:BU:33:VAL:HG12	42:BU:34:GLU:N	2.05	0.71
44:BW:39:ILE:O	44:BW:43:VAL:HG23	1.90	0.71
45:BX:42:VAL:H	45:BX:61:ILE:CG2	2.03	0.71
46:BY:44:PHE:HD2	46:BY:48:PHE:CE1	2.09	0.71
46:BY:94:GLU:O	46:BY:96:VAL:HG23	1.91	0.71
32:BK:97:ILE:HG22	32:BK:101:LEU:CD2	2.20	0.71
32:BK:146:ALA:C	32:BK:148:GLU:N	2.44	0.71
32:BK:87:LYS:NZ	32:BK:122:GLU:HG2	2.05	0.71
26:BC:126:LYS:O	26:BC:130:ILE:HD13	1.90	0.71
26:BC:7:TYR:CE2	26:BC:11:LEU:HD13	2.25	0.71
32:BK:92:VAL:CB	32:BK:120:ILE:O	2.34	0.71
1:AA:340:U:H2'	1:AA:341:C:C6	2.26	0.71
1:AA:216:G:H2'	1:AA:217:C:C6	2.26	0.71
1:AA:1109:C:H2'	1:AA:1110:A:O4'	1.91	0.71
1:AA:1134:G:C6	1:AA:1135:U:H1'	2.26	0.71
1:AA:1320:C:H5	21:AV:37:ARG:HD3	1.56	0.71
1:AA:1419:G:O6	1:AA:1482:G:C6	2.44	0.71
1:AA:26:A:H61	1:AA:558:G:H2'	1.55	0.71
1:AA:519:C:C2'	1:AA:520:A:H5'	2.21	0.71
1:AA:529:G:C6	14:AO:49:ASN:ND2	2.58	0.71
1:AA:765:G:O2'	1:AA:766:A:H5'	1.89	0.71
1:AA:983:A:C2	1:AA:984:C:H6	2.05	0.71
14:AO:25:PRO:O	14:AO:27:LEU:N	2.19	0.71
14:AO:37:CYS:HA	14:AO:58:VAL:CG2	2.19	0.71
16:AQ:58:LYS:HD3	16:AQ:59:ALA:N	2.04	0.71
53:B6:11:LYS:HE3	53:B6:15:THR:HG21	1.71	0.71
54:B7:26:LYS:NZ	54:B7:43:GLN:HA	2.04	0.71
54:B7:30:ARG:NH2	54:B7:43:GLN:N	2.38	0.71
24:BA:1242:A:OP1	24:BA:1242:A:O4'	2.09	0.71
24:BA:1274:A:O2'	24:BA:1275:A:H5'	1.90	0.71
24:BA:1540:G:H2'	24:BA:1541:U:C5'	2.18	0.71
24:BA:1834:U:H1'	24:BA:1969:A:H2	1.50	0.71
24:BA:203:C:H3'	24:BA:204:A:C8	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2393:A:P	54:B7:32:LEU:HD11	2.31	0.71
24:BA:2772:C:C2	24:BA:2773:C:C5	2.79	0.71
24:BA:2043:C:C4	24:BA:2777:G:N3	2.59	0.71
24:BA:2875:C:H2'	24:BA:2876:G:O4'	1.89	0.71
24:BA:374:A:C2	24:BA:375:C:H1'	2.26	0.71
24:BA:380:U:O2'	24:BA:381:G:H5'	1.91	0.71
24:BA:422:A:N3	24:BA:422:A:C2'	2.51	0.71
24:BA:523:C:C2'	24:BA:524:U:H5'	2.20	0.71
24:BA:916:G:N2	24:BA:917:A:N6	2.38	0.71
27:BD:58:HIS:ND1	27:BD:217:ARG:HA	2.05	0.71
28:BE:33:VAL:HG21	28:BE:77:ILE:CD1	2.17	0.71
28:BE:51:PHE:CB	28:BE:76:ARG:HD3	2.21	0.71
30:BG:123:ASN:HB2	30:BG:126:ASP:OD1	1.90	0.71
30:BG:124:SER:O	30:BG:132:ASN:HB3	1.91	0.71
30:BG:138:GLN:HG2	30:BG:139:LEU:H	1.54	0.71
24:BA:2749:A:H4'	31:BH:62:LYS:CG	2.20	0.71
33:BL:7:VAL:HG13	33:BL:60:TYR:CE1	2.26	0.71
34:BM:37:LYS:HZ2	34:BM:43:THR:CG2	2.03	0.71
34:BM:68:GLU:N	34:BM:70:LYS:HE2	2.06	0.71
38:BQ:14:SER:HA	38:BQ:17:ARG:NE	2.04	0.71
39:BR:62:LYS:CB	39:BR:65:VAL:HB	2.19	0.71
39:BR:99:LYS:O	39:BR:102:ALA:CB	2.39	0.71
40:BS:110:ILE:O	40:BS:114:LEU:CB	2.39	0.71
41:BT:88:ILE:H	42:BU:52:VAL:HG22	1.55	0.71
45:BX:72:VAL:HG13	45:BX:73:ARG:N	2.05	0.71
24:BA:2151:G:O2'	24:BA:2152:G:H5'	1.91	0.71
32:BK:133:HIS:HB3	32:BK:136:VAL:HG23	1.71	0.71
1:AA:1205:U:H2'	1:AA:1206:G:C8	2.25	0.71
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.50	0.71
1:AA:1534:A:H4'	1:AA:1535:C:OP1	1.88	0.71
1:AA:583:A:H2'	1:AA:584:G:C8	2.25	0.71
1:AA:722:A:N3	1:AA:722:A:H3'	2.05	0.71
1:AA:888:G:N2	1:AA:909:A:N6	2.35	0.71
6:AG:191:ARG:HD3	6:AG:191:ARG:C	2.11	0.71
7:AH:65:ASN:HD21	7:AH:136:MET:CE	2.04	0.71
10:AK:26:VAL:HG22	10:AK:27:PRO:CD	2.18	0.71
48:B1:59:LEU:HD11	48:B1:63:ARG:HE	1.54	0.71
50:B3:52:THR:HG22	50:B3:53:GLU:N	2.05	0.71
24:BA:400:G:N1	50:B3:63:TYR:CE2	2.59	0.71
24:BA:1184:G:H2'	24:BA:1185:C:H6	1.55	0.71
24:BA:1338:G:C2'	24:BA:1339:G:H5'	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1592:C:H2'	24:BA:1593:G:C8	2.25	0.71
24:BA:1695:G:C2'	24:BA:1696:G:H5'	2.19	0.71
24:BA:2215:G:O5'	24:BA:2215:G:C8	2.43	0.71
24:BA:2311:A:H5''	24:BA:2312:U:C5	2.22	0.71
24:BA:1050:A:N6	24:BA:2751:G:N7	2.39	0.71
24:BA:2825:C:H6	24:BA:2825:C:O5'	1.74	0.71
24:BA:370:G:N1	24:BA:424:G:N7	2.38	0.71
24:BA:511:U:H5	24:BA:512:G:N3	1.89	0.71
24:BA:792:G:C5	24:BA:2440:C:C2	2.79	0.71
24:BA:838:C:H2'	24:BA:839:U:C6	2.26	0.71
24:BA:83:G:O6	24:BA:102:G:N3	2.23	0.71
27:BD:106:ILE:O	27:BD:107:ALA:HB2	1.91	0.71
27:BD:119:ALA:HB1	27:BD:130:ALA:O	1.90	0.71
27:BD:12:SER:HA	27:BD:22:SER:O	1.91	0.71
27:BD:142:VAL:C	27:BD:163:ALA:HB3	2.11	0.71
28:BE:13:ARG:HG3	28:BE:22:PRO:CD	2.11	0.71
24:BA:2631:G:H22	28:BE:61:ARG:NH1	1.86	0.71
29:BF:130:ALA:HB2	29:BF:142:TRP:CE3	2.22	0.71
29:BF:4:VAL:HA	29:BF:20:LEU:CB	2.20	0.71
31:BH:155:SER:HA	31:BH:157:TYR:CZ	2.25	0.71
31:BH:22:GLY:O	31:BH:37:VAL:HG22	1.91	0.71
31:BH:38:SER:HB3	31:BH:41:MET:CG	2.18	0.71
31:BH:94:TYR:CE2	31:BH:96:ALA:HB2	2.25	0.71
33:BL:52:ILE:HG21	33:BL:73:PRO:HD2	1.71	0.71
34:BM:37:LYS:HD3	34:BM:43:THR:CG2	2.08	0.71
34:BM:33:LEU:CD2	34:BM:50:ASP:HB3	2.20	0.71
38:BQ:51:LEU:CD1	38:BQ:70:LEU:HD11	2.21	0.71
39:BR:40:ILE:HG13	39:BR:47:THR:HG23	1.70	0.71
39:BR:94:TYR:H	39:BR:94:TYR:HD1	1.38	0.71
40:BS:104:ASN:CB	40:BS:108:ARG:HH22	2.02	0.71
40:BS:50:ILE:HG22	40:BS:67:SER:C	2.11	0.71
40:BS:68:TYR:CE2	40:BS:70:VAL:HG22	2.26	0.71
35:BN:122:LEU:HA	40:BS:71:GLY:HA2	1.73	0.71
44:BW:25:LYS:HD3	44:BW:82:GLN:HB2	1.71	0.71
46:BY:118:GLN:CD	46:BY:174:VAL:HG12	2.11	0.71
46:BY:2:GLU:HG2	46:BY:60:GLU:HB3	1.72	0.71
32:BK:113:ARG:HD3	32:BK:131:LYS:O	1.89	0.71
26:BC:30:LYS:HD2	26:BC:185:LEU:HD11	1.72	0.71
1:AA:1260:C:O5'	1:AA:1284:C:H4'	1.91	0.71
1:AA:224:C:H2'	1:AA:225:C:C6	2.26	0.71
1:AA:302:G:H2'	1:AA:556:C:H5''	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:623:C:O2'	1:AA:624:C:H5'	1.91	0.71
4:AE:15:VAL:HG21	4:AE:210:SER:N	2.06	0.71
7:AH:94:ALA:HB2	7:AH:119:LEU:CD2	2.07	0.71
9:AJ:37:ASN:OD1	9:AJ:38:LEU:N	2.18	0.71
11:AL:6:GLY:HA3	11:AL:80:GLY:O	1.91	0.71
13:AN:30:VAL:O	13:AN:42:TRP:HB2	1.91	0.71
13:AN:92:GLU:O	13:AN:94:ALA:N	2.24	0.71
14:AO:17:LYS:O	14:AO:18:VAL:O	2.09	0.71
15:AP:91:ARG:HH22	15:AP:103:THR:CG2	2.03	0.71
17:AR:56:LEU:O	17:AR:60:VAL:HG23	1.90	0.71
18:AS:53:VAL:HG12	18:AS:79:VAL:HG22	1.70	0.71
1:AA:761:G:C4'	19:AT:103:GLY:H	2.04	0.71
19:AT:60:ILE:HG12	19:AT:61:GLU:N	2.06	0.71
1:AA:189:U:H2'	19:AT:63:ARG:HH22	1.56	0.71
19:AT:5:VAL:CG1	19:AT:6:LEU:N	2.54	0.71
20:AU:63:GLN:HA	20:AU:66:LEU:HD11	1.73	0.71
20:AU:66:LEU:CD1	20:AU:67:ALA:N	2.51	0.71
1:AA:1320:C:N4	21:AV:36:ARG:NH1	2.38	0.71
52:B5:30:THR:CB	52:B5:31:PRO:HD3	2.21	0.71
24:BA:1047:G:H22	24:BA:1110:G:H2'	1.54	0.71
24:BA:1048:A:N1	24:BA:1113:U:O4'	2.23	0.71
24:BA:112:U:H3'	24:BA:113:G:C5'	2.20	0.71
24:BA:1475:G:N7	24:BA:1517:G:N1	2.38	0.71
24:BA:1542:G:N7	24:BA:1544:C:C4	2.59	0.71
24:BA:699:A:H1'	24:BA:1634:A:N7	2.05	0.71
24:BA:1685:C:H2'	24:BA:1686:C:H6	1.55	0.71
24:BA:1697:G:C3'	24:BA:1698:A:C5'	2.68	0.71
24:BA:1770:G:C6	24:BA:1771:C:N4	2.59	0.71
24:BA:1911:U:C2'	24:BA:1912:A:H5'	2.19	0.71
24:BA:1913:A:H1'	24:BA:1918:A:N6	2.05	0.71
24:BA:1944:U:O2	24:BA:1955:U:H6	1.73	0.71
24:BA:201:C:C2'	24:BA:202:U:H5'	2.21	0.71
24:BA:2055:C:H2'	24:BA:2504:U:H5'	1.72	0.71
24:BA:2644:G:N1	24:BA:2645:G:N2	2.37	0.71
24:BA:288:C:H5''	24:BA:289:A:OP2	1.91	0.71
24:BA:975:G:N1	24:BA:976:C:H6	1.89	0.71
27:BD:206:LEU:N	27:BD:206:LEU:HD13	2.02	0.71
27:BD:229:VAL:HG22	27:BD:230:ASP:OD1	1.91	0.71
28:BE:55:ASN:HA	28:BE:73:GLU:OE1	1.90	0.71
29:BF:153:SER:HG	29:BF:190:GLU:HB2	1.56	0.71
29:BF:126:VAL:CG2	29:BF:197:ASP:HB2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:45:ARG:NE	29:BF:46:ARG:H	1.89	0.71
30:BG:138:GLN:HE22	30:BG:152:LEU:HD12	1.55	0.71
30:BG:174:GLU:O	30:BG:179:PRO:HD3	1.91	0.71
30:BG:181:ARG:HB2	30:BG:181:ARG:HH21	1.56	0.71
30:BG:34:LEU:N	30:BG:34:LEU:HD12	2.04	0.71
2:AC:56:C:O2	30:BG:82:LEU:O	2.08	0.71
24:BA:2749:A:H4'	31:BH:62:LYS:HB2	1.72	0.71
34:BM:127:ASP:C	34:BM:129:PRO:HD2	2.11	0.71
34:BM:86:PRO:HB2	34:BM:89:LYS:HZ3	1.54	0.71
35:BN:63:VAL:HG22	35:BN:82:ASN:H	1.56	0.71
36:BO:107:LYS:HE2	36:BO:110:TYR:CD1	2.26	0.71
39:BR:103:GLU:H	39:BR:103:GLU:CD	1.93	0.71
24:BA:2378:A:N3	39:BR:20:ARG:NH1	2.39	0.71
40:BS:113:LYS:HA	40:BS:116:ALA:CB	2.20	0.71
40:BS:23:ARG:HH21	40:BS:90:GLN:N	1.88	0.71
24:BA:533:G:OP1	41:BT:24:TYR:HB3	1.91	0.71
41:BT:52:ARG:O	41:BT:55:ARG:HD3	1.90	0.71
41:BT:89:GLU:HA	42:BU:51:VAL:CG1	2.20	0.71
42:BU:69:LYS:CG	42:BU:70:ILE:H	2.03	0.71
42:BU:69:LYS:N	42:BU:92:THR:HB	2.04	0.71
45:BX:73:ARG:HB3	45:BX:77:PRO:CA	2.18	0.71
26:BC:30:LYS:NZ	26:BC:182:PRO:HD3	2.06	0.71
1:AA:1094:G:C3'	1:AA:1108:G:H22	2.04	0.71
1:AA:1278:U:H4'	1:AA:1279:A:C1'	2.20	0.71
1:AA:138:G:N2	1:AA:226:G:H1'	2.06	0.71
1:AA:226:G:O2'	1:AA:227:G:H5'	1.91	0.71
1:AA:448:A:H2'	1:AA:449:C:C6	2.26	0.71
1:AA:823:G:H21	10:AK:1:MET:H2	1.37	0.71
5:AF:156:ARG:HD2	5:AF:163:ALA:HB2	1.73	0.71
1:AA:1057:G:H5'	5:AF:196:LEU:HA	1.71	0.71
5:AF:69:HIS:ND1	5:AF:104:GLN:HB2	2.06	0.71
11:AL:36:TYR:OH	11:AL:70:LYS:NZ	2.24	0.71
13:AN:40:ILE:N	13:AN:40:ILE:HD13	2.05	0.71
15:AP:81:LEU:O	15:AP:86:CYS:SG	2.49	0.71
8:AI:95:GLU:HA	20:AU:32:ARG:HB3	1.71	0.71
20:AU:46:GLU:HB3	20:AU:85:LEU:HD13	1.72	0.71
1:AA:721:G:OP2	20:AU:63:GLN:HG2	1.91	0.71
21:AV:32:LYS:CA	21:AV:50:ALA:HB3	2.21	0.71
50:B3:68:ARG:H	50:B3:68:ARG:HH11	1.35	0.71
24:BA:1047:G:H2'	24:BA:1110:G:N1	2.05	0.71
24:BA:1069:A:N7	24:BA:1073:A:C8	2.59	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1084:A:H5'	24:BA:1085:A:OP2	1.90	0.71
24:BA:1277:G:O2'	24:BA:1278:A:H5'	1.91	0.71
24:BA:1341:U:C2'	24:BA:1341:U:O2	2.38	0.71
24:BA:137(A):G:N7	24:BA:139:G:H5''	2.06	0.71
24:BA:13:A:N3	24:BA:526:A:N6	2.38	0.71
24:BA:1471:A:H5''	24:BA:1472:A:C2	2.26	0.71
24:BA:1559:G:C6	24:BA:1560:G:C4'	2.74	0.71
24:BA:1881:C:C6	24:BA:1881:C:H5''	2.26	0.71
24:BA:1977:A:H2'	24:BA:1978:A:O5'	1.91	0.71
24:BA:2398:U:H2'	24:BA:2399:G:C8	2.25	0.71
24:BA:2695:C:H2'	24:BA:2696:U:C5	2.26	0.71
24:BA:270(X):G:C2	24:BA:270(Y):G:O2'	2.44	0.71
24:BA:336:C:H2'	24:BA:337:C:C5'	2.17	0.71
24:BA:354:G:H3'	24:BA:354:G:OP2	1.90	0.71
24:BA:548:A:H61	24:BA:549:G:N2	1.86	0.71
25:BB:100:G:C2'	25:BB:101:A:C8	2.74	0.71
25:BB:40:U:O2'	25:BB:45:A:N6	2.24	0.71
27:BD:136:ILE:HD11	27:BD:173:VAL:HG21	1.73	0.71
28:BE:154:LYS:HZ3	28:BE:156:MET:CE	2.04	0.71
29:BF:39:TRP:CZ3	29:BF:43:LYS:HB2	2.26	0.71
30:BG:20:ILE:HG22	30:BG:21:ARG:N	2.04	0.71
31:BH:172:LYS:HB2	31:BH:172:LYS:HZ3	1.54	0.71
34:BM:133:GLN:OE1	34:BM:133:GLN:HA	1.89	0.71
35:BN:68:GLU:HG2	35:BN:76:ALA:C	2.11	0.71
39:BR:3:ARG:HD2	39:BR:4:LEU:N	2.06	0.71
42:BU:11:GLN:HE22	42:BU:24:LYS:CE	2.04	0.71
42:BU:14:VAL:CG1	42:BU:15:GLU:H	2.03	0.71
45:BX:13:VAL:HG23	45:BX:14:LEU:N	2.05	0.71
46:BY:32:HIS:O	46:BY:33:LEU:HD23	1.91	0.71
46:BY:45:ASP:O	46:BY:46:LYS:C	2.28	0.71
32:BK:69:LYS:CE	32:BK:70:LYS:CG	2.68	0.71
3:AD:21:A:N6	3:AD:48:C:H6	1.89	0.71
28:BE:126:PRO:O	28:BE:135:HIS:O	2.09	0.71
1:AA:1002:G:H2'	1:AA:1002:G:N3	2.04	0.71
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.90	0.70
1:AA:197:A:H61	1:AA:221:C:C5'	1.78	0.70
1:AA:20:U:H5'	1:AA:572:A:H61	1.55	0.70
1:AA:21:G:C2'	1:AA:22:G:H8	2.02	0.70
1:AA:945:G:H1'	1:AA:1337:G:O2'	1.91	0.70
4:AE:113:HIS:HA	4:AE:116:GLU:CD	2.11	0.70
1:AA:1191:A:OP1	5:AF:4:LYS:HG2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:27:THR:HB	11:AL:62:TYR:HD1	1.55	0.70
12:AM:44:VAL:HG11	12:AM:46:ARG:HE	1.56	0.70
13:AN:27:ASN:CB	13:AN:55:LYS:HE3	2.20	0.70
13:AN:99:GLN:HA	13:AN:105:VAL:CG2	2.20	0.70
15:AP:67:GLU:O	15:AP:70:LEU:HB3	1.90	0.70
18:AS:15:PRO:HB2	18:AS:17:TYR:CE1	2.26	0.70
19:AT:75:ARG:HG2	19:AT:76:LEU:N	2.05	0.70
48:B1:36:ILE:HD13	48:B1:37:GLY:H	1.55	0.70
54:B7:56:GLU:CD	54:B7:56:GLU:H	1.94	0.70
24:BA:1024:G:C2	24:BA:1025:G:N7	2.58	0.70
24:BA:1308:A:C2	24:BA:1309:G:H1'	2.26	0.70
24:BA:1778:U:C4	24:BA:1785:A:N1	2.58	0.70
24:BA:1935:G:O2'	24:BA:1937:A:H2	1.74	0.70
24:BA:1994:C:H2'	24:BA:1995:U:H5'	1.72	0.70
24:BA:2000:G:H2'	24:BA:2001:A:H8	1.56	0.70
24:BA:204:A:O2'	24:BA:205:G:P	2.49	0.70
24:BA:224:G:H21	24:BA:225:A:H1'	1.55	0.70
24:BA:2850:A:H2'	24:BA:2851:A:H8	1.56	0.70
24:BA:623:G:O5'	36:BO:105:LEU:HD21	1.90	0.70
24:BA:658:C:H2'	24:BA:659:C:C6	2.26	0.70
24:BA:784:A:P	24:BA:2588:G:H5''	2.31	0.70
24:BA:861:A:N3	25:BB:79:C:O2'	2.19	0.70
24:BA:878:A:H1'	24:BA:879:G:C8	2.26	0.70
24:BA:2830:G:H5'	28:BE:57:LYS:HE3	1.72	0.70
29:BF:128:ALA:HB1	29:BF:142:TRP:CZ2	2.26	0.70
31:BH:33:LEU:CD2	31:BH:35:VAL:HG13	2.21	0.70
24:BA:1080:C:O2	33:BL:126:MET:HG2	1.91	0.70
33:BL:127:ILE:O	33:BL:131:ALA:CB	2.39	0.70
34:BM:12:ARG:CZ	34:BM:12:ARG:HB3	2.21	0.70
39:BR:89:ARG:HG3	39:BR:90:GLY:N	2.06	0.70
43:BV:11:ARG:O	43:BV:11:ARG:HG2	1.89	0.70
43:BV:20:VAL:HG13	43:BV:21:VAL:H	1.55	0.70
44:BW:21:PHE:HA	44:BW:25:LYS:O	1.89	0.70
46:BY:48:PHE:CZ	46:BY:86:VAL:HG11	2.26	0.70
47:BZ:27:GLU:H	47:BZ:69:PHE:HE1	1.39	0.70
26:BC:102:LYS:HE3	26:BC:107:TRP:HB3	1.73	0.70
26:BC:194:ARG:HH11	26:BC:194:ARG:HG3	1.55	0.70
26:BC:76:ALA:HB1	26:BC:149:ILE:HD11	1.73	0.70
24:BA:2195:C:H2'	24:BA:2196:C:O4'	1.91	0.70
24:BA:2098:U:H2'	24:BA:2099:U:H6	1.55	0.70
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.26	0.70
1:AA:1302:U:O2'	1:AA:1303:C:OP1	2.09	0.70
1:AA:38:G:N2	1:AA:397:A:H5'	2.01	0.70
1:AA:87:A:N7	1:AA:88:C:C4	2.59	0.70
4:AE:47:THR:HG22	4:AE:51:LEU:HD11	1.73	0.70
5:AF:67:THR:HG22	5:AF:69:HIS:CE1	2.26	0.70
5:AF:72:LYS:O	5:AF:76:VAL:HG21	1.91	0.70
6:AG:191:ARG:HB3	6:AG:192:GLU:OE1	1.91	0.70
8:AI:62:TRP:CZ2	8:AI:64:GLN:HB2	2.26	0.70
9:AJ:45:ASP:HB2	9:AJ:117:ALA:HB2	1.73	0.70
13:AN:25:TYR:CE2	13:AN:87:THR:HB	2.26	0.70
1:AA:37:U:OP2	14:AO:123:LYS:HD2	1.90	0.70
15:AP:32:GLU:HB2	15:AP:64:TRP:CH2	2.26	0.70
20:AU:53:ARG:HH22	20:AU:60:GLY:N	1.88	0.70
52:B5:31:PRO:C	52:B5:32:ASN:HD22	1.94	0.70
54:B7:22:VAL:CG1	54:B7:23:VAL:N	2.54	0.70
54:B7:5:LYS:HB2	54:B7:60:LEU:HA	1.70	0.70
24:BA:1113:U:H2'	24:BA:1114:G:C8	2.26	0.70
24:BA:1342:A:N7	24:BA:1601:G:O6	2.25	0.70
24:BA:1475:G:H1	24:BA:1477:A:N6	1.89	0.70
24:BA:1523:U:C2	24:BA:1524:G:C8	2.79	0.70
24:BA:2040:C:N3	24:BA:2041:U:C5	2.58	0.70
24:BA:2056:G:C6	24:BA:2577:A:H1'	2.27	0.70
24:BA:2747:G:O6	24:BA:2748:A:H62	1.87	0.70
24:BA:2747:G:O6	24:BA:2755:C:H5'	1.90	0.70
24:BA:324:A:C2	24:BA:325:G:N9	2.58	0.70
24:BA:424:G:O2'	24:BA:425:G:H5'	1.90	0.70
24:BA:459:U:H3'	53:B6:40:TRP:CZ3	2.25	0.70
24:BA:531:C:C5'	24:BA:532:A:C2	2.74	0.70
24:BA:705:A:C6	24:BA:727:A:H1'	2.25	0.70
24:BA:808:G:H2'	24:BA:809:G:C8	2.27	0.70
24:BA:838:C:H2'	24:BA:839:U:H6	1.56	0.70
24:BA:7:G:O2'	24:BA:8:A:H5'	1.91	0.70
24:BA:932:G:N2	24:BA:933:A:C6	2.59	0.70
24:BA:961:C:N4	24:BA:2031:A:H1'	2.05	0.70
25:BB:58:A:N6	25:BB:59:A:H62	1.87	0.70
27:BD:121:PRO:O	27:BD:135:PHE:CE2	2.44	0.70
27:BD:157:ARG:HD2	27:BD:178:PRO:HD3	1.72	0.70
27:BD:276:LYS:HD2	27:BD:276:LYS:OXT	1.90	0.70
27:BD:29:PRO:HB2	27:BD:83:GLU:HA	1.73	0.70
24:BA:1675:C:N4	28:BE:129:HIS:NE2	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:60:ASN:OD1	28:BE:61:ARG:HD3	1.91	0.70
29:BF:154:VAL:HG21	29:BF:193:VAL:HG21	1.72	0.70
30:BG:118:ARG:NH2	30:BG:120:LEU:HD11	2.05	0.70
30:BG:39:ILE:HG13	30:BG:157:ILE:HG13	1.72	0.70
31:BH:164:TYR:CE2	31:BH:167:GLU:HG2	2.26	0.70
24:BA:2749:A:H5'	31:BH:62:LYS:O	1.91	0.70
34:BM:37:LYS:HG3	34:BM:42:TRP:HB2	1.73	0.70
39:BR:11:LYS:C	39:BR:14:VAL:HB	2.10	0.70
39:BR:51:ALA:HB1	39:BR:73:LEU:CG	2.20	0.70
40:BS:7:ILE:HG13	40:BS:8:LYS:N	2.06	0.70
42:BU:6:LYS:HE2	42:BU:10:LYS:O	1.91	0.70
42:BU:30:GLY:O	42:BU:31:ALA:O	2.09	0.70
43:BV:59:VAL:HG21	43:BV:66:GLU:HG2	1.73	0.70
45:BX:1:MET:HG2	45:BX:33:LYS:HD2	1.70	0.70
45:BX:9:LYS:HG3	45:BX:28:LYS:NZ	2.06	0.70
46:BY:143:GLY:O	46:BY:144:LEU:HD23	1.90	0.70
46:BY:150:LEU:O	46:BY:171:ILE:HG23	1.91	0.70
46:BY:116:VAL:HA	46:BY:177:PRO:HD3	1.71	0.70
47:BZ:21:LEU:HG	47:BZ:22:GLY:H	1.56	0.70
26:BC:29:VAL:HG21	26:BC:41:VAL:HG11	1.74	0.70
26:BC:77:ILE:HD12	26:BC:123:VAL:HG11	1.72	0.70
1:AA:1003:G:N7	1:AA:1004:A:N3	2.39	0.70
39:BR:56:LEU:HD21	39:BR:59:LYS:HD2	1.72	0.70
13:AN:121:PRO:HG3	13:AN:125:PHE:O	1.90	0.70
1:AA:1158:C:N3	1:AA:1160:G:C8	2.59	0.70
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.04	0.70
1:AA:1327:C:H5''	23:AX:20:LYS:HD3	1.71	0.70
1:AA:1418:A:H2'	1:AA:1419:G:H5'	1.71	0.70
1:AA:44:G:C2	1:AA:45:U:H1'	2.26	0.70
1:AA:594:G:N7	1:AA:595:G:N3	2.38	0.70
1:AA:687:A:O2'	1:AA:688:G:P	2.49	0.70
1:AA:754:C:H2'	1:AA:755:G:OP1	1.91	0.70
1:AA:781:A:N6	1:AA:802:A:C4	2.59	0.70
1:AA:799:G:N2	1:AA:800:G:H1'	2.05	0.70
1:AA:828:A:O2'	1:AA:829:G:O5'	2.08	0.70
4:AE:57:PHE:CD1	4:AE:199:TYR:HE1	2.08	0.70
5:AF:53:ALA:HB2	5:AF:115:LEU:HD21	1.72	0.70
5:AF:179:ARG:CD	5:AF:206:GLU:HG2	2.21	0.70
10:AK:122:ARG:HH11	10:AK:123:GLU:HB3	1.55	0.70
12:AM:9:ARG:C	12:AM:94:VAL:HG13	2.12	0.70
14:AO:43:VAL:HG12	14:AO:44:THR:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:16:LEU:CD1	21:AV:16:LEU:H	2.04	0.70
48:B1:38:GLN:O	48:B1:41:GLN:HB2	1.91	0.70
24:BA:1264:G:C3'	24:BA:1265:A:H5''	2.21	0.70
24:BA:1750:G:O2'	24:BA:1751:C:H5'	1.90	0.70
24:BA:2076:U:H5'	24:BA:2077:A:OP2	1.92	0.70
24:BA:2309:A:N3	24:BA:2309:A:H2'	2.05	0.70
24:BA:2283:C:N3	24:BA:2325:G:N1	2.37	0.70
24:BA:2291:U:OP1	24:BA:2381:C:H5'	1.91	0.70
24:BA:2627:G:H2'	24:BA:2628:C:H5''	1.72	0.70
24:BA:2865:U:C4	24:BA:2866:U:C5	2.79	0.70
24:BA:322:A:O2'	24:BA:340:A:C5	2.44	0.70
24:BA:80:G:C1'	24:BA:347:A:N6	2.53	0.70
24:BA:638:G:O2'	24:BA:639:U:H5'	1.90	0.70
25:BB:24:G:O5'	25:BB:24:G:C8	2.44	0.70
27:BD:268:ARG:O	27:BD:269:PHE:CD1	2.44	0.70
29:BF:165:ARG:CB	29:BF:165:ARG:NH2	2.54	0.70
29:BF:36:VAL:CG1	29:BF:183:VAL:HG21	2.22	0.70
30:BG:110:ALA:HB2	30:BG:139:LEU:HD11	1.72	0.70
33:BL:95:LYS:CB	33:BL:98:ARG:HH21	2.04	0.70
37:BP:100:GLY:O	37:BP:101:ARG:HD3	1.91	0.70
38:BQ:11:ASN:CG	38:BQ:12:ARG:N	2.45	0.70
39:BR:9:ARG:HG3	39:BR:10:ARG:N	2.06	0.70
40:BS:110:ILE:O	40:BS:114:LEU:HB2	1.90	0.70
42:BU:33:VAL:HG12	42:BU:34:GLU:H	1.55	0.70
43:BV:10:VAL:HB	43:BV:12:ILE:CD1	2.22	0.70
43:BV:98:LYS:C	43:BV:98:LYS:HZ3	1.94	0.70
45:BX:81:LYS:HD3	45:BX:96:ILE:HG12	1.72	0.70
45:BX:84:ARG:HG3	45:BX:92:ASN:O	1.90	0.70
1:AA:337:C:H2'	1:AA:338:A:H8	1.55	0.70
1:AA:1054:C:OP2	1:AA:1197:G:P	2.49	0.70
1:AA:1094:G:H2'	1:AA:1108:G:H22	1.56	0.70
1:AA:1196:U:O2'	1:AA:1197:G:OP2	2.09	0.70
1:AA:1320:C:O2'	21:AV:73:GLU:HG2	1.92	0.70
1:AA:1387:G:H2'	1:AA:1388:C:H6	1.57	0.70
1:AA:1498:U:O2'	1:AA:1499:A:C5'	2.39	0.70
1:AA:152:A:H8	1:AA:152:A:O5'	1.75	0.70
1:AA:225:C:O2'	1:AA:226:G:H5'	1.91	0.70
1:AA:997:U:H6	1:AA:997:U:OP2	1.73	0.70
3:AD:38:A:O2'	3:AD:39:U:H5'	1.92	0.70
4:AE:115:LEU:CD2	4:AE:149:LEU:HD13	2.21	0.70
4:AE:223:ILE:CG2	4:AE:229:VAL:HA	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:80:ILE:HD12	7:AH:80:ILE:N	2.05	0.70
8:AI:12:PRO:HB3	8:AI:58:GLY:HA2	1.72	0.70
10:AK:46:LYS:HZ2	10:AK:64:LYS:HA	1.56	0.70
11:AL:113:LYS:O	11:AL:115:GLY:N	2.25	0.70
11:AL:55:ALA:HB1	11:AL:58:HIS:HD2	1.55	0.70
11:AL:23:ASN:H	11:AL:59:PHE:C	1.95	0.70
11:AL:45:ALA:HB3	11:AL:74:ILE:HG21	1.73	0.70
12:AM:8:LEU:HD13	12:AM:94:VAL:CG1	2.21	0.70
15:AP:29:ARG:NH1	15:AP:66:LEU:HD22	2.06	0.70
50:B3:5:ILE:HG23	50:B3:60:GLN:OE1	1.91	0.70
52:B5:26:ASN:O	52:B5:27:LYS:CB	2.40	0.70
24:BA:469:G:N1	53:B6:40:TRP:NE1	2.39	0.70
24:BA:1363:C:O2'	24:BA:1809:A:C8	2.43	0.70
24:BA:1712:C:H2'	24:BA:1716:U:C6	2.26	0.70
24:BA:1982:C:N4	24:BA:1983:C:H41	1.89	0.70
24:BA:2027:G:H1'	24:BA:2037:G:N2	2.06	0.70
24:BA:2268:A:H3'	24:BA:2269:A:C5'	2.20	0.70
24:BA:2726:U:O2'	24:BA:2727:G:H5'	1.91	0.70
24:BA:423:A:OP2	24:BA:423:A:H3'	1.91	0.70
24:BA:64:A:O2'	44:BW:71:GLY:CA	2.35	0.70
24:BA:685:A:C4	24:BA:774:A:N6	2.58	0.70
24:BA:757:U:C2	24:BA:758:C:C6	2.79	0.70
24:BA:877:U:H6	24:BA:877:U:O5'	1.75	0.70
24:BA:865:C:N4	24:BA:909:A:H62	1.89	0.70
24:BA:957:A:N1	24:BA:2459:A:H5'	2.06	0.70
27:BD:196:VAL:HG12	27:BD:197:GLY:H	1.55	0.70
27:BD:244:ARG:N	27:BD:245:PRO:CD	2.35	0.70
27:BD:46:GLN:HG2	27:BD:52:ARG:HH22	1.54	0.70
29:BF:123:LEU:O	29:BF:193:VAL:HA	1.91	0.70
29:BF:77:ASP:OD1	29:BF:80:ALA:HB2	1.90	0.70
24:BA:673:C:C4'	29:BF:82:ILE:HD12	2.21	0.70
30:BG:29:TRP:O	30:BG:31:VAL:N	2.24	0.70
30:BG:92:VAL:CG1	30:BG:94:LEU:HD13	2.18	0.70
31:BH:95:ARG:O	31:BH:105:LEU:HA	1.91	0.70
31:BH:126:PRO:O	31:BH:127:GLU:HG2	1.91	0.70
34:BM:99:LEU:HD12	34:BM:99:LEU:C	2.12	0.70
35:BN:59:LYS:CA	35:BN:86:ILE:HD13	2.20	0.70
24:BA:2495:G:O3'	37:BP:83:MET:SD	2.49	0.70
39:BR:11:LYS:HZ3	39:BR:15:ARG:HH22	1.36	0.70
41:BT:105:VAL:O	41:BT:109:LEU:CG	2.40	0.70
41:BT:59:ARG:CB	41:BT:59:ARG:HH11	1.99	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:28:GLY:O	47:BZ:29:GLN:O	2.09	0.70
32:BK:87:LYS:HD3	32:BK:122:GLU:N	2.06	0.70
32:BK:69:LYS:HA	32:BK:138:ILE:CD1	2.20	0.70
26:BC:62:VAL:CG1	26:BC:195:ALA:HB2	2.20	0.70
32:BK:57:ARG:HG3	32:BK:57:ARG:HH11	1.56	0.70
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.55	0.70
25:BB:110:G:H2'	25:BB:111:U:O4'	1.91	0.70
24:BA:2131:G:H3'	24:BA:2131:G:OP1	1.91	0.70
1:AA:1269:A:H8	1:AA:1270:C:C1'	2.05	0.70
1:AA:1342:C:O2'	11:AL:124:GLN:HB2	1.91	0.70
1:AA:256:U:H2'	1:AA:257:G:O4'	1.91	0.70
1:AA:799:G:C2	1:AA:800:G:H1'	2.26	0.70
1:AA:887:G:H2'	1:AA:888:G:C8	2.27	0.70
4:AE:136:VAL:O	4:AE:139:LYS:HG2	1.91	0.70
4:AE:213:LEU:O	4:AE:217:ARG:HG2	1.92	0.70
4:AE:25:ASN:ND2	4:AE:27:LYS:H	1.89	0.70
8:AI:19:LEU:HD23	8:AI:23:LYS:HZ1	1.55	0.70
9:AJ:49:ILE:O	9:AJ:53:LYS:HB2	1.92	0.70
11:AL:106:ALA:O	11:AL:107:ARG:HG3	1.91	0.70
11:AL:70:LYS:HD2	11:AL:70:LYS:N	1.96	0.70
12:AM:79:ARG:HH12	12:AM:82:ILE:CD1	2.04	0.70
15:AP:3:ARG:HH12	30:BG:113:ARG:CG	1.99	0.70
22:AW:41:ILE:O	22:AW:45:GLN:HB2	1.90	0.70
24:BA:1009:A:O4'	41:BT:59:ARG:CZ	2.39	0.70
24:BA:1342:A:C2'	24:BA:1345:C:H41	2.04	0.70
24:BA:1342:A:C4	24:BA:1345:C:N4	2.59	0.70
24:BA:1430:C:H2'	24:BA:1431:U:H6	1.56	0.70
24:BA:1529:A:H3'	24:BA:1530:G:H8	1.57	0.70
24:BA:1532:C:O2'	24:BA:1533:C:O4'	2.08	0.70
24:BA:2225:A:H4'	24:BA:2226:C:H6	1.56	0.70
24:BA:2749:A:H5'	31:BH:62:LYS:C	2.12	0.70
24:BA:2523:G:H1'	24:BA:2765:A:H62	1.56	0.70
24:BA:2636:U:C1'	24:BA:2783:G:N2	2.47	0.70
24:BA:566:U:H2'	24:BA:567:A:H8	1.56	0.70
24:BA:805:G:C2'	24:BA:806:C:OP1	2.39	0.70
24:BA:955:C:H2'	24:BA:956:G:H5'	1.73	0.70
27:BD:29:PRO:HB3	27:BD:82:ILE:O	1.91	0.70
29:BF:162:LEU:HA	29:BF:165:ARG:HH21	1.53	0.70
30:BG:171:ALA:HA	30:BG:174:GLU:OE1	1.91	0.70
30:BG:47:LYS:NZ	30:BG:73:ALA:CB	2.49	0.70
31:BH:9:ILE:CD1	31:BH:73:ALA:HB2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:27:ARG:HG2	32:BK:28:ASN:N	2.07	0.70
34:BM:17:ASP:HB3	34:BM:21:LYS:CE	2.21	0.70
35:BN:52:VAL:HG22	35:BN:53:LYS:N	2.07	0.70
40:BS:28:VAL:HG13	40:BS:93:ARG:N	2.06	0.70
43:BV:25:ARG:HA	43:BV:71:VAL:HG11	1.73	0.70
44:BW:39:ILE:HG21	44:BW:54:VAL:CG1	2.12	0.70
45:BX:13:VAL:O	45:BX:70:SER:HB3	1.91	0.70
47:BZ:52:GLY:HA3	47:BZ:60:PHE:CE1	2.27	0.70
32:BK:95:LYS:O	32:BK:98:ALA:HB3	1.88	0.70
24:BA:2148:G:H2'	24:BA:2149:G:H8	1.52	0.70
26:BC:134:ARG:HH11	26:BC:136:LEU:HG	1.57	0.70
24:BA:2120:G:N2	26:BC:167:LYS:NZ	2.38	0.70
26:BC:19:ILE:HG23	26:BC:223:ARG:CG	2.19	0.70
26:BC:83:ILE:O	26:BC:87:GLU:CB	2.39	0.70
1:AA:1172:C:O2'	1:AA:1173:G:H5'	1.92	0.70
25:BB:3:C:H2'	25:BB:4:C:C6	2.26	0.70
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.07	0.70
1:AA:250:A:C2	1:AA:274:A:N1	2.56	0.70
1:AA:301:G:N2	1:AA:302:G:N9	2.40	0.70
1:AA:452:A:H2'	1:AA:453:A:C8	2.27	0.70
1:AA:67:C:C1'	1:AA:172:A:H1'	2.21	0.70
5:AF:84:ILE:HA	5:AF:101:LEU:HD13	1.71	0.70
5:AF:35:GLU:CA	5:AF:38:ARG:HG2	2.22	0.70
7:AH:103:GLY:O	7:AH:106:PRO:HD2	1.91	0.70
9:AJ:40:ALA:O	9:AJ:43:PHE:HB3	1.92	0.70
9:AJ:83:ALA:HB3	9:AJ:85:TYR:HE2	1.55	0.70
11:AL:113:LYS:HZ2	11:AL:119:ALA:HA	1.52	0.70
11:AL:40:LEU:C	11:AL:42:ARG:N	2.44	0.70
18:AS:19:ILE:HG13	18:AS:38:TYR:HA	1.73	0.70
48:B1:5:LEU:CD1	48:B1:9:ARG:HH11	2.05	0.70
49:B2:7:LYS:HZ3	49:B2:33:GLN:H	1.38	0.70
24:BA:1142(A):A:H5''	24:BA:1143:A:OP2	1.90	0.70
24:BA:1139:G:O2'	24:BA:1143:A:H5''	1.91	0.70
24:BA:1290:C:H2'	24:BA:1291:C:H6	1.55	0.70
24:BA:1543:A:N7	24:BA:1544:C:H1'	2.07	0.70
24:BA:1545(A):A:H8	24:BA:1545(A):A:OP2	1.74	0.70
24:BA:1668:A:H61	24:BA:1993:U:C1'	2.04	0.70
24:BA:2408:U:O2'	24:BA:2409:G:H5'	1.92	0.70
24:BA:2596:U:O4	24:BA:2597:G:C6	2.45	0.70
24:BA:2779:U:C3'	24:BA:2779:U:C6	2.74	0.70
24:BA:2779:U:H5''	24:BA:2780:G:H3'	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:282:A:C8	24:BA:282:A:H3'	2.27	0.70
24:BA:28:A:H2'	24:BA:29:U:H5'	1.73	0.70
24:BA:324:A:N3	24:BA:324:A:H2'	2.06	0.70
24:BA:411:G:O4'	24:BA:2406:U:O3'	2.09	0.70
24:BA:470:A:N1	24:BA:471:A:N3	2.38	0.70
24:BA:545:G:H1'	24:BA:549:G:H22	1.56	0.70
24:BA:623:G:H2'	24:BA:624:C:O4'	1.91	0.70
24:BA:748:G:N7	43:BV:90:ARG:NH1	2.39	0.70
24:BA:771:G:H2'	24:BA:772:C:H6	1.56	0.70
24:BA:892:G:H2'	24:BA:893:C:H6	1.53	0.70
25:BB:53:A:C2	25:BB:54:G:O4'	2.45	0.70
27:BD:158:ALA:C	27:BD:160:GLY:H	1.95	0.70
30:BG:131:TYR:CD1	30:BG:132:ASN:N	2.58	0.70
30:BG:74:LYS:HD3	30:BG:87:PRO:CB	2.16	0.70
30:BG:9:ARG:HH11	30:BG:9:ARG:HG3	1.55	0.70
33:BL:12:LEU:HD22	33:BL:19:PRO:CG	2.22	0.70
33:BL:17:ALA:HB1	33:BL:38:VAL:CG1	2.22	0.70
33:BL:41:PHE:CZ	33:BL:55:VAL:HB	2.27	0.70
33:BL:9:LYS:HG2	33:BL:56:GLU:CD	2.12	0.70
36:BO:146:VAL:O	36:BO:147:LEU:HD22	1.90	0.70
36:BO:96:THR:CB	36:BO:99:LEU:HD12	2.22	0.70
37:BP:99:PRO:O	37:BP:99:PRO:HG2	1.92	0.70
39:BR:87:PHE:CG	39:BR:88:ASP:N	2.59	0.70
39:BR:30:ARG:CD	39:BR:91:PRO:HB3	2.22	0.70
40:BS:103:ARG:O	40:BS:105:LEU:N	2.25	0.70
40:BS:95:ARG:HB3	40:BS:95:ARG:NH2	2.05	0.70
41:BT:97:ASP:O	41:BT:100:VAL:CG2	2.39	0.70
41:BT:100:VAL:HG23	41:BT:101:ARG:H	1.54	0.70
43:BV:59:VAL:HG21	43:BV:66:GLU:CG	2.21	0.70
43:BV:27:LYS:H	43:BV:71:VAL:HG13	1.56	0.70
47:BZ:72:ARG:HB3	47:BZ:75:LEU:CD1	2.17	0.70
24:BA:2161:C:O2'	24:BA:2162:G:H5'	1.91	0.70
26:BC:26:ALA:HB2	26:BC:185:LEU:HB2	1.74	0.70
26:BC:75:LEU:HB2	26:BC:110:PHE:CG	2.26	0.70
26:BC:80:GLY:O	26:BC:83:ILE:HB	1.91	0.70
1:AA:137:C:C2'	1:AA:138:G:H5'	2.22	0.70
1:AA:153:C:H2'	1:AA:154:C:C6	2.27	0.70
1:AA:296:U:N3	1:AA:297:G:N7	2.40	0.70
1:AA:689:C:OP2	13:AN:46:GLY:HA3	1.92	0.70
5:AF:138:VAL:HG12	5:AF:170:GLN:NE2	2.06	0.70
7:AH:136:MET:O	7:AH:139:LEU:HB2	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:9:LYS:HA	7:AH:9:LYS:HE2	1.74	0.70
9:AJ:45:ASP:HB2	9:AJ:117:ALA:CB	2.22	0.70
13:AN:104:GLN:NE2	13:AN:106:LYS:HB2	2.02	0.70
13:AN:95:ILE:HA	13:AN:98:LEU:CD1	2.21	0.70
15:AP:81:LEU:HA	15:AP:84:ILE:CD1	2.22	0.70
16:AQ:9:LYS:NZ	16:AQ:12:ARG:HH21	1.89	0.70
19:AT:43:LEU:HD22	19:AT:44:ALA:N	2.07	0.70
52:B5:17:LYS:CE	52:B5:48:VAL:HG13	2.21	0.70
24:BA:1127:A:C6	24:BA:2518:A:H2	2.10	0.70
24:BA:1341:U:C2'	24:BA:1342:A:OP1	2.39	0.70
24:BA:1431:U:H2'	24:BA:1432:C:O4'	1.92	0.70
24:BA:144:C:H2'	24:BA:145:G:C5'	2.21	0.70
24:BA:1511:A:C2	24:BA:1512:G:H1'	2.25	0.70
24:BA:1556:C:H2'	24:BA:1557:C:C6	2.26	0.70
24:BA:1602:U:H2'	24:BA:1603:A:H5'	1.74	0.70
24:BA:1708:C:H2'	24:BA:1709:U:H5"	1.74	0.70
24:BA:1790:C:H4'	27:BD:213:ARG:NH1	2.06	0.70
24:BA:1957:C:H2'	24:BA:1958:C:C6	2.26	0.70
24:BA:2009:G:C6	24:BA:2010:G:N7	2.60	0.70
24:BA:2553:G:N7	24:BA:2583:G:H4'	2.07	0.70
24:BA:259:G:H2'	24:BA:260:G:C8	2.25	0.70
24:BA:2685:G:H2'	24:BA:2685:G:N3	2.07	0.70
24:BA:371:A:H62	24:BA:424:G:H4'	1.57	0.70
24:BA:704:G:O2'	24:BA:705:A:OP2	2.09	0.70
24:BA:768:G:H2'	24:BA:769:G:C8	2.25	0.70
24:BA:792:G:N2	24:BA:2072:G:H1'	2.05	0.70
25:BB:76:G:OP2	46:BY:11:GLU:N	2.24	0.70
27:BD:133:LEU:HD12	27:BD:187:GLY:HA2	1.73	0.70
27:BD:20:ASP:HB3	27:BD:21:PHE:CE2	2.27	0.70
27:BD:217:ARG:CG	27:BD:218:ARG:H	1.99	0.70
28:BE:84:PHE:C	28:BE:85:ASN:HD22	1.95	0.70
29:BF:69:HIS:O	29:BF:69:HIS:ND1	2.25	0.70
30:BG:33:ARG:HH12	30:BG:35:GLU:HB2	1.55	0.70
30:BG:71:THR:O	30:BG:88:ILE:HG12	1.92	0.70
30:BG:91:ARG:NE	30:BG:93:THR:OG1	2.25	0.70
31:BH:164:TYR:HE2	31:BH:167:GLU:N	1.86	0.70
32:BK:47:LEU:HD11	32:BK:51:ILE:HD11	1.73	0.70
33:BL:11:GLN:NE2	33:BL:73:PRO:HG2	2.06	0.70
33:BL:17:ALA:HB2	33:BL:42:ASN:HD21	1.57	0.70
33:BL:27:LEU:HD22	33:BL:57:ILE:HD11	1.73	0.70
34:BM:123:TYR:CG	34:BM:129:PRO:HB2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:25:LEU:CD2	35:BN:38:VAL:HG23	2.22	0.70
35:BN:41:ALA:N	35:BN:59:LYS:HZ1	1.90	0.70
35:BN:11:ALA:HB1	35:BN:97:ARG:CZ	2.22	0.70
37:BP:54:MET:HE1	37:BP:118:LEU:HD23	1.74	0.70
37:BP:120:ILE:HG23	37:BP:123:HIS:CD2	2.23	0.70
37:BP:8:LYS:HZ2	37:BP:93:TYR:HD2	1.38	0.70
38:BQ:58:GLY:HA2	38:BQ:80:PHE:HE2	1.51	0.70
41:BT:105:VAL:O	41:BT:108:GLU:CD	2.30	0.70
24:BA:994:C:H3'	41:BT:54:LYS:NZ	2.04	0.70
42:BU:40:LEU:CB	42:BU:51:VAL:HG22	2.15	0.70
43:BV:10:VAL:CG2	43:BV:12:ILE:HD11	2.21	0.70
46:BY:55:HIS:CD2	46:BY:124:ILE:HD13	2.27	0.70
47:BZ:24:LYS:H	47:BZ:38:VAL:HG12	1.56	0.70
47:BZ:28:GLY:N	47:BZ:67:VAL:HB	2.06	0.70
3:AD:14:A:C2	3:AD:15:G:N7	2.59	0.70
24:BA:2139:C:O2'	24:BA:2140:C:H5'	1.91	0.70
24:BA:2150:U:H2'	24:BA:2151:G:C8	2.27	0.70
26:BC:54:SER:CA	26:BC:57:ASN:HD22	2.04	0.70
24:BA:1579:A:H62	24:BA:1581:G:N2	1.89	0.70
25:BB:116:G:N3	25:BB:117:G:H1'	2.07	0.70
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.56	0.70
1:AA:1152:A:H5''	12:AM:13:HIS:CE1	2.26	0.70
1:AA:1365:G:H2'	1:AA:1366:C:C6	2.26	0.70
1:AA:192:U:H2'	1:AA:193:C:C6	2.26	0.70
1:AA:538:G:H5''	14:AO:114:LYS:CD	2.22	0.70
1:AA:783:C:O2'	1:AA:784:C:H5'	1.92	0.70
1:AA:950:U:H3'	15:AP:102:ARG:HH22	1.57	0.70
5:AF:112:SER:O	5:AF:116:VAL:HG23	1.92	0.70
6:AG:133:VAL:HG13	6:AG:135:LEU:HG	1.73	0.70
6:AG:19:LEU:HA	6:AG:21:LEU:CD1	2.22	0.70
8:AI:2:ARG:O	8:AI:66:GLU:HA	1.91	0.70
8:AI:68:PRO:HB2	8:AI:71:ARG:CG	2.22	0.70
9:AJ:111:ARG:HB3	9:AJ:111:ARG:HH11	1.55	0.70
10:AK:69:ARG:NH1	10:AK:73:ASP:O	2.24	0.70
10:AK:6:ILE:CG2	10:AK:7:ALA:H	2.01	0.70
12:AM:68:HIS:HB3	12:AM:70:ARG:HH21	1.55	0.70
14:AO:119:LYS:O	14:AO:120:TYR:HB2	1.91	0.70
14:AO:37:CYS:N	14:AO:58:VAL:HG22	2.06	0.70
14:AO:83:VAL:HG22	14:AO:104:VAL:HB	1.73	0.70
18:AS:21:VAL:HG22	18:AS:36:ILE:HD11	1.73	0.70
19:AT:51:TYR:HB3	19:AT:55:ASP:OD2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:27:LEU:O	48:B1:30:LEU:HG	1.90	0.70
24:BA:1470:G:H21	24:BA:1522:G:H1	0.76	0.70
24:BA:1448:G:H5''	24:BA:1543:A:C2	2.26	0.70
24:BA:1698:A:N3	24:BA:1700:A:O4'	2.23	0.70
24:BA:1784:A:C1'	24:BA:1785:A:C8	2.74	0.70
24:BA:1913:A:N9	24:BA:1918:A:N6	2.40	0.70
24:BA:1947:C:H2'	24:BA:1948:G:H5'	1.73	0.70
24:BA:530:G:N1	24:BA:2022:U:OP1	2.25	0.70
24:BA:2291:U:C2	24:BA:2292:C:C5	2.80	0.70
24:BA:2344:U:O2'	24:BA:2345:G:O5'	2.07	0.70
24:BA:252:G:N2	24:BA:253:C:C2	2.59	0.70
24:BA:2622:C:O2'	24:BA:2824:C:N4	2.25	0.70
24:BA:2833:G:H2'	24:BA:2833:G:N3	2.05	0.70
24:BA:2888:C:H2'	24:BA:2889:C:C6	2.27	0.70
24:BA:2801:A:C2	24:BA:2895:U:H1'	2.27	0.70
24:BA:515:A:O5'	24:BA:515:A:C8	2.43	0.70
24:BA:529:A:O2'	24:BA:530:G:C6	2.45	0.70
24:BA:557:U:H2'	24:BA:558:G:O4'	1.91	0.70
24:BA:693:C:H2'	24:BA:694:U:H6	1.56	0.70
24:BA:972:G:C5	24:BA:973:A:N7	2.59	0.70
27:BD:176:ARG:N	27:BD:182:LEU:HD23	2.07	0.70
24:BA:1799:G:C3'	27:BD:183:ARG:HH22	2.04	0.70
24:BA:2086:U:OP2	27:BD:260:ARG:NH2	2.25	0.70
27:BD:183:ARG:CG	27:BD:268:ARG:HB2	2.22	0.70
27:BD:8:PRO:HD2	27:BD:26:LYS:N	2.06	0.70
28:BE:49:LEU:HD12	28:BE:51:PHE:H	1.57	0.70
29:BF:165:ARG:CZ	29:BF:165:ARG:HB3	2.20	0.70
24:BA:588:U:H1'	29:BF:90:PHE:CD2	2.27	0.70
30:BG:110:ALA:HA	30:BG:113:ARG:CD	2.19	0.70
30:BG:113:ARG:HE	30:BG:139:LEU:HD21	1.55	0.70
30:BG:140:ILE:O	30:BG:142:PRO:HD2	1.91	0.70
30:BG:2:PRO:O	30:BG:5:VAL:HB	1.92	0.70
31:BH:121:ILE:HG13	31:BH:133:VAL:CG2	2.20	0.70
33:BL:131:ALA:CA	33:BL:136:VAL:HB	2.21	0.70
34:BM:103:VAL:HG23	34:BM:117:PHE:CE2	2.27	0.70
34:BM:108:PRO:O	34:BM:113:GLY:HA3	1.92	0.70
38:BQ:78:LYS:O	38:BQ:82:GLU:HB2	1.90	0.70
39:BR:73:LEU:O	39:BR:76:LYS:HB3	1.91	0.70
40:BS:28:VAL:HG22	40:BS:94:ALA:N	2.05	0.70
43:BV:36:LEU:CG	43:BV:51:LEU:HD21	2.22	0.70
43:BV:86:LEU:HB3	43:BV:87:PRO:CD	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:82:GLN:HG2	44:BW:83:VAL:N	2.05	0.70
37:BP:136:ALA:HB1	46:BY:76:LEU:CD1	2.22	0.70
46:BY:77:ASP:HA	46:BY:78:LYS:HE2	1.72	0.70
32:BK:69:LYS:HZ1	32:BK:70:LYS:HE2	1.56	0.70
26:BC:78:ALA:HB1	26:BC:118:ASP:OD2	1.90	0.70
6:AG:168:ARG:CD	6:AG:168:ARG:H	1.88	0.70
1:AA:306:G:H3'	1:AA:307:C:C5	2.26	0.70
1:AA:518:C:H5'	1:AA:530:G:O4'	1.92	0.70
5:AF:181:ASN:O	5:AF:204:LEU:HG	1.91	0.70
7:AH:94:ALA:CB	7:AH:119:LEU:HD21	2.07	0.70
8:AI:48:LEU:HG	8:AI:56:PRO:O	1.92	0.70
10:AK:88:LYS:HB2	10:AK:88:LYS:HZ2	1.56	0.70
14:AO:27:LEU:HD23	14:AO:33:ARG:NH1	2.01	0.70
15:AP:26:GLY:H	15:AP:29:ARG:HB2	1.56	0.70
1:AA:136:C:O4'	18:AS:1:MET:SD	2.50	0.70
48:B1:50:ARG:HB3	48:B1:54:ARG:HH22	1.57	0.70
49:B2:35:ARG:HH12	49:B2:47:VAL:CG1	2.03	0.70
50:B3:18:CYS:O	50:B3:33:VAL:HG23	1.91	0.70
24:BA:1130:U:O2'	24:BA:1131:G:OP1	2.10	0.70
24:BA:152:G:O2'	24:BA:153:C:H5'	1.91	0.70
24:BA:2022:U:H5'	24:BA:2023:G:OP2	1.90	0.70
24:BA:2055:C:H4'	24:BA:2056:G:H5''	1.74	0.70
24:BA:2325:G:H2'	24:BA:2326:C:H6	1.56	0.70
24:BA:2426:A:H3'	24:BA:2427:C:H5'	1.72	0.70
24:BA:2071:A:C2	24:BA:2441:C:N3	2.59	0.70
24:BA:2572:A:C6	28:BE:144:ARG:HG3	2.27	0.70
27:BD:208:LYS:HG2	27:BD:211:ARG:HG3	1.74	0.70
28:BE:37:ARG:O	28:BE:39:PRO:CD	2.40	0.70
28:BE:8:LYS:CE	40:BS:3:ARG:HG3	2.22	0.70
29:BF:139:PHE:HZ	29:BF:167:ALA:HB2	1.56	0.70
29:BF:152:GLU:HG3	29:BF:153:SER:H	1.57	0.70
29:BF:41:LEU:O	29:BF:44:ARG:CG	2.37	0.70
31:BH:35:VAL:HG12	31:BH:71:LEU:CG	2.21	0.70
32:BK:24:GLY:O	32:BK:27:ARG:HB3	1.91	0.70
34:BM:16:ILE:HD11	34:BM:52:VAL:HG23	1.72	0.70
35:BN:39:ILE:CD1	35:BN:39:ILE:N	2.53	0.70
35:BN:98:VAL:HG12	35:BN:122:LEU:CD2	2.21	0.70
37:BP:36:ALA:O	37:BP:100:GLY:HA2	1.91	0.70
37:BP:134:ARG:CD	37:BP:137:TYR:HA	2.18	0.70
37:BP:75:THR:CG2	37:BP:77:LYS:HA	2.22	0.70
38:BQ:8:ARG:NE	38:BQ:10:LEU:HD11	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:50:HIS:CE1	38:BQ:54:LEU:HD11	2.26	0.70
41:BT:112:ARG:HH12	42:BU:49:THR:CG2	2.02	0.70
41:BT:52:ARG:HD2	41:BT:53:ARG:N	2.07	0.70
24:BA:2353:G:H4'	47:BZ:32:ARG:HH22	1.57	0.70
3:AD:60:U:H6	3:AD:60:U:O5'	1.75	0.70
24:BA:2135:A:O2'	24:BA:2136:C:OP2	2.10	0.70
4:AE:126:GLU:O	4:AE:127:ILE:O	2.08	0.70
1:AA:1356:G:H2'	1:AA:1357:A:N7	2.06	0.70
1:AA:267:C:N4	1:AA:268:C:H41	1.88	0.70
1:AA:362:G:N3	1:AA:364:A:C8	2.60	0.70
1:AA:448:A:O2'	1:AA:449:C:H5'	1.92	0.70
1:AA:55:A:C2'	1:AA:56:U:H5'	2.21	0.70
1:AA:600:C:H2'	1:AA:601:C:H6	1.56	0.70
1:AA:652:U:H2'	1:AA:752:G:N2	2.04	0.70
1:AA:652:U:O4	1:AA:752:G:C2'	2.39	0.70
1:AA:656:C:O2'	1:AA:657:G:H5'	1.92	0.70
1:AA:659:U:O2'	1:AA:660:G:H5'	1.91	0.70
3:AD:76:A:C8	24:BA:2432:A:N3	2.59	0.70
5:AF:189:ALA:HB1	5:AF:196:LEU:HG	1.74	0.70
6:AG:64:LEU:HD22	6:AG:64:LEU:O	1.92	0.70
9:AJ:37:ASN:CG	9:AJ:38:LEU:N	2.45	0.70
9:AJ:70:LYS:HA	9:AJ:100:ALA:CB	2.20	0.70
11:AL:97:LYS:NZ	11:AL:102:LEU:HD22	2.06	0.70
11:AL:8:GLY:HA3	11:AL:76:ALA:O	1.92	0.70
12:AM:23:ILE:HG13	12:AM:85:LEU:HD23	1.73	0.70
14:AO:83:VAL:HG23	14:AO:104:VAL:O	1.92	0.70
1:AA:657:G:N2	17:AR:22:THR:OG1	2.24	0.70
18:AS:20:VAL:CG1	18:AS:21:VAL:N	2.55	0.70
18:AS:39:TYR:CD1	18:AS:40:ASP:N	2.58	0.70
18:AS:43:LYS:HA	18:AS:48:TRP:HE3	1.57	0.70
18:AS:75:ARG:HA	18:AS:80:PHE:CB	2.13	0.70
19:AT:13:ASP:O	19:AT:15:MET:N	2.24	0.70
1:AA:277:C:H5''	19:AT:68:ARG:HH22	1.57	0.70
20:AU:53:ARG:O	20:AU:55:ARG:N	2.25	0.70
22:AW:12:ALA:H	22:AW:13:LEU:HD12	1.56	0.70
51:B4:51:TYR:C	51:B4:51:TYR:CD2	2.64	0.70
53:B6:21:ARG:NH1	53:B6:44:PRO:HB3	2.07	0.70
24:BA:1077:A:N7	24:BA:1078:U:N3	2.40	0.70
24:BA:1119:C:O2	24:BA:1119:C:H2'	1.90	0.70
24:BA:1537:C:C3'	24:BA:1537:C:C6	2.74	0.70
24:BA:1637:A:C6	24:BA:1638:C:N4	2.60	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1824:G:OP1	27:BD:53:PHE:HZ	1.74	0.70
24:BA:1864:U:C2'	24:BA:1869:G:H5'	2.22	0.70
24:BA:2329:G:O5'	24:BA:2329:G:H8	1.75	0.70
24:BA:2333:A:C1'	24:BA:2335:A:N3	2.49	0.70
24:BA:2514:U:H2'	24:BA:2515:C:C5	2.26	0.70
24:BA:2542:A:C5'	24:BA:2543:G:OP1	2.39	0.70
24:BA:491:G:H2'	24:BA:492:A:O4'	1.92	0.70
24:BA:66:C:H2'	24:BA:67:U:O5'	1.92	0.70
25:BB:12:C:C4	47:BZ:75:LEU:HA	2.27	0.70
25:BB:32:C:C3'	25:BB:33:G:H8	2.05	0.70
27:BD:217:ARG:HG3	27:BD:218:ARG:N	2.06	0.70
27:BD:27:THR:HG22	27:BD:29:PRO:HD3	1.72	0.70
29:BF:122:LYS:NZ	29:BF:192:LEU:HB3	2.06	0.70
29:BF:4:VAL:HG12	29:BF:20:LEU:HD11	1.73	0.70
29:BF:32:LEU:O	29:BF:35:GLU:HB2	1.91	0.70
24:BA:1257:C:H4'	29:BF:83:PHE:CD1	2.25	0.70
30:BG:12:TYR:CZ	30:BG:13:GLU:HG3	2.27	0.70
30:BG:170:ARG:HG3	30:BG:171:ALA:H	1.56	0.70
32:BK:31:LEU:HD22	32:BK:36:ALA:N	2.07	0.70
33:BL:115:LEU:HD12	33:BL:118:THR:H	1.55	0.70
29:BF:38:ARG:NH1	36:BO:10:PRO:HA	2.07	0.70
36:BO:13:ASN:CG	36:BO:14:LYS:N	2.43	0.70
36:BO:6:LEU:O	36:BO:6:LEU:HD23	1.92	0.70
36:BO:72:PRO:HA	36:BO:110:TYR:CD1	2.27	0.70
37:BP:67:ARG:HD3	37:BP:103:MET:SD	2.31	0.70
37:BP:109:VAL:CG1	37:BP:114:ALA:HB2	2.22	0.70
38:BQ:65:LEU:O	38:BQ:68:ARG:HB3	1.92	0.70
24:BA:1252:G:O2'	41:BT:33:ARG:NE	2.24	0.70
41:BT:98:LEU:HB3	41:BT:105:VAL:HG13	1.74	0.70
42:BU:69:LYS:CA	42:BU:92:THR:HB	2.22	0.70
43:BV:14:PRO:N	43:BV:16:LYS:HZ1	1.90	0.70
43:BV:33:ARG:CZ	43:BV:33:ARG:O	2.39	0.70
32:BK:109:ILE:HG21	32:BK:113:ARG:CZ	2.22	0.70
3:AD:56:C:C4	3:AD:57:G:N2	2.59	0.70
26:BC:97:GLU:O	26:BC:101:GLN:HG2	1.92	0.70
26:BC:117:PRO:HD3	26:BC:146:GLY:C	2.11	0.70
26:BC:10:LEU:HD11	26:BC:32:LEU:HB3	1.74	0.70
6:AG:47:ARG:HH11	6:AG:47:ARG:HB2	1.54	0.70
4:AE:11:LEU:HD23	4:AE:11:LEU:N	2.07	0.70
32:BK:105:HIS:HD2	32:BK:105:HIS:O	1.75	0.70
1:AA:1161:C:C2	1:AA:1162:C:C5	2.79	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1118:C:OP1	11:AL:104:ARG:CG	2.36	0.69
1:AA:1144:G:N2	1:AA:1146:A:N6	2.40	0.69
1:AA:1204:A:H2	5:AF:195:VAL:HG21	1.56	0.69
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.26	0.69
1:AA:153:C:H2'	1:AA:154:C:H6	1.56	0.69
1:AA:373:A:C1'	1:AA:481:G:H1'	2.22	0.69
1:AA:565:U:H3'	1:AA:566:G:H8	1.57	0.69
1:AA:730:G:O2'	1:AA:766:A:H5'	1.92	0.69
1:AA:872:A:O2'	1:AA:873:A:P	2.50	0.69
3:AD:33:U:H5''	9:AJ:79:ARG:NH2	2.06	0.69
4:AE:187:LEU:HA	4:AE:201:ILE:O	1.91	0.69
4:AE:83:MET:HB2	4:AE:234:PRO:CG	2.21	0.69
5:AF:138:VAL:HG13	5:AF:149:ALA:CB	2.22	0.69
5:AF:35:GLU:C	5:AF:38:ARG:HG2	2.13	0.69
11:AL:112:LYS:HE2	11:AL:117:HIS:CA	2.19	0.69
13:AN:23:ALA:HB3	13:AN:88:GLY:CA	2.18	0.69
14:AO:44:THR:HB	14:AO:45:PRO:CD	2.21	0.69
1:AA:1230:C:O2'	15:AP:126:LYS:HE2	1.92	0.69
17:AR:62:GLN:HA	17:AR:65:ARG:CZ	2.21	0.69
19:AT:57:VAL:HA	19:AT:77:VAL:CG2	2.17	0.69
50:B3:65:ASP:O	50:B3:69:LYS:HG3	1.92	0.69
24:BA:247:G:N1	54:B7:8:LYS:NZ	2.40	0.69
24:BA:1056:G:C5'	24:BA:1057:A:H5'	2.17	0.69
24:BA:1205:U:O2'	24:BA:1206:G:O6	2.10	0.69
24:BA:1524:G:C5	24:BA:1525:G:N7	2.60	0.69
24:BA:1833:U:C2	24:BA:1834:U:O2	2.45	0.69
24:BA:1937:A:N7	24:BA:1939:U:C4	2.60	0.69
24:BA:2226:C:O2'	24:BA:2227:A:H5'	1.92	0.69
24:BA:2305:A:N3	30:BG:156:ASP:HB3	2.07	0.69
24:BA:2411:A:H2'	24:BA:2412:A:C8	2.27	0.69
24:BA:2602:A:P	24:BA:2602:A:H3'	2.32	0.69
24:BA:2852:G:H2'	24:BA:2853:C:C6	2.27	0.69
24:BA:397:G:OP2	50:B3:41:PRO:HG3	1.92	0.69
24:BA:452:G:H3'	24:BA:453:C:C5'	2.20	0.69
24:BA:55:G:H2'	24:BA:56:A:H8	1.55	0.69
24:BA:720:C:O2'	24:BA:721:C:H5'	1.92	0.69
27:BD:69:ARG:HG3	27:BD:69:ARG:HH11	1.56	0.69
24:BA:2052:G:C8	28:BE:150:VAL:HG23	2.26	0.69
28:BE:36:ARG:HH21	28:BE:41:LYS:HZ1	1.40	0.69
28:BE:51:PHE:CG	28:BE:76:ARG:HD3	2.27	0.69
29:BF:56:GLU:O	29:BF:60:SER:OG	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:30:ILE:HG22	34:BM:34:LEU:CD1	2.22	0.69
35:BN:15:GLY:O	35:BN:47:ILE:HA	1.91	0.69
36:BO:23:PRO:HB3	36:BO:30:THR:CG2	2.21	0.69
40:BS:88:ILE:HD12	40:BS:88:ILE:N	2.07	0.69
42:BU:40:LEU:CD2	42:BU:51:VAL:HG13	2.04	0.69
24:BA:2009:G:H5''	43:BV:41:LYS:HG2	1.74	0.69
44:BW:23:GLU:CD	44:BW:24:GLY:N	2.45	0.69
24:BA:1599:C:P	44:BW:36:LYS:HZ3	2.15	0.69
44:BW:73:ARG:HG2	44:BW:74:PRO:CD	2.21	0.69
46:BY:150:LEU:O	46:BY:171:ILE:N	2.14	0.69
46:BY:122:ARG:HG2	46:BY:171:ILE:HA	1.72	0.69
3:AD:54:U:H2'	3:AD:55:U:H5'	1.73	0.69
24:BA:2161:C:C2	24:BA:2162:G:C8	2.80	0.69
26:BC:75:LEU:HB2	26:BC:110:PHE:CD2	2.27	0.69
26:BC:10:LEU:HA	26:BC:13:LYS:HD2	1.74	0.69
1:AA:1028:C:H2'	1:AA:1028(A):C:H6	1.57	0.69
1:AA:1023:G:O6	1:AA:1024:G:N2	2.25	0.69
1:AA:1283:G:O2'	1:AA:1284:C:H5'	1.91	0.69
1:AA:237:C:OP1	19:AT:40:LYS:CE	2.40	0.69
1:AA:692:U:N3	1:AA:695:A:OP2	2.25	0.69
1:AA:752:G:O4'	1:AA:752:G:OP2	2.11	0.69
1:AA:885:G:N3	1:AA:914:A:C2	2.59	0.69
6:AG:3:ARG:HE	6:AG:71:SER:HB2	1.57	0.69
9:AJ:36:LYS:HB2	9:AJ:36:LYS:NZ	2.02	0.69
14:AO:27:LEU:HD23	14:AO:33:ARG:CD	2.23	0.69
15:AP:14:ARG:HG2	15:AP:17:VAL:HG23	1.73	0.69
19:AT:62:SER:CB	19:AT:72:ARG:HE	1.99	0.69
8:AI:99:ALA:CB	20:AU:31:LEU:HD11	2.22	0.69
21:AV:31:ILE:HG22	21:AV:33:THR:HG23	1.74	0.69
22:AW:40:ALA:HA	22:AW:55:ILE:HD12	1.73	0.69
52:B5:19:ARG:NH1	52:B5:19:ARG:HG2	2.06	0.69
52:B5:39:TYR:O	52:B5:40:CYS:HB3	1.92	0.69
53:B6:31:LEU:C	53:B6:35:ARG:HD3	2.13	0.69
24:BA:1101:U:H2'	24:BA:1102:C:C6	2.26	0.69
24:BA:1359:A:H8	24:BA:1359:A:O5'	1.75	0.69
24:BA:138:G:H2'	24:BA:138:G:N3	2.07	0.69
24:BA:135:G:N2	24:BA:145:G:H1'	2.07	0.69
24:BA:149:A:C8	24:BA:149:A:H3'	2.26	0.69
24:BA:1620:G:O2'	24:BA:1621:U:H5'	1.92	0.69
24:BA:1633:G:O6	24:BA:1635:G:N2	2.24	0.69
24:BA:1717:G:C2	24:BA:1718:G:N3	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1832:C:C4	24:BA:1833:U:C5	2.80	0.69
24:BA:1980:G:C6	24:BA:1982:C:N4	2.60	0.69
24:BA:2371:G:N2	24:BA:2372:G:C6	2.59	0.69
24:BA:2505:G:N1	24:BA:2576:G:C4	2.60	0.69
24:BA:448:U:O2	24:BA:448:U:H2'	1.92	0.69
24:BA:771:G:H2'	24:BA:772:C:C6	2.26	0.69
28:BE:113:PHE:CD1	28:BE:113:PHE:N	2.59	0.69
29:BF:33:LEU:HD12	29:BF:34:TRP:N	2.06	0.69
24:BA:2306:C:C2	30:BG:46:ALA:HB2	2.26	0.69
30:BG:50:ALA:N	30:BG:70:VAL:HG13	2.07	0.69
32:BK:6:LEU:HD22	32:BK:7:GLU:OE2	1.91	0.69
25:BB:115:G:H4'	39:BR:50:SER:HB3	1.74	0.69
39:BR:6:ALA:C	39:BR:9:ARG:HB3	2.13	0.69
42:BU:11:GLN:O	42:BU:21:ARG:NE	2.24	0.69
42:BU:5:VAL:HG13	42:BU:39:LEU:HA	1.73	0.69
43:BV:12:ILE:HG12	43:BV:101:SER:CB	2.19	0.69
43:BV:13:SER:CB	43:BV:14:PRO:HD2	2.19	0.69
46:BY:44:PHE:HD2	46:BY:48:PHE:CZ	2.10	0.69
32:BK:91:SER:HB3	32:BK:121:LYS:HD2	1.73	0.69
26:BC:113:VAL:HB	26:BC:138:PRO:CG	2.12	0.69
26:BC:49:ILE:HG23	26:BC:208:PHE:CE1	2.27	0.69
1:AA:644:G:O2'	1:AA:645:C:H5'	1.92	0.69
1:AA:66:G:C5'	1:AA:173:U:O4	2.40	0.69
1:AA:940:C:H2'	1:AA:941:G:H8	1.55	0.69
3:AD:41:G:C2	3:AD:42:C:C2	2.80	0.69
4:AE:115:LEU:CD2	4:AE:149:LEU:HB3	2.21	0.69
5:AF:42:LEU:O	5:AF:45:LYS:HB3	1.92	0.69
1:AA:619:U:O2	6:AG:133:VAL:HG13	1.92	0.69
6:AG:58:LEU:HD13	6:AG:59:ARG:N	2.05	0.69
9:AJ:84:ASN:C	9:AJ:85:TYR:CD2	2.61	0.69
10:AK:33:GLU:HG2	10:AK:59:LEU:HD21	1.74	0.69
12:AM:44:VAL:HG22	12:AM:66:ARG:NE	2.07	0.69
13:AN:124:LYS:O	13:AN:127:LYS:HB2	1.93	0.69
14:AO:37:CYS:O	14:AO:79:GLU:O	2.10	0.69
14:AO:85:ILE:HG23	14:AO:85:ILE:O	1.91	0.69
14:AO:88:GLY:HA3	14:AO:99:HIS:CE1	2.26	0.69
15:AP:20:THR:HG23	15:AP:25:ILE:O	1.92	0.69
16:AQ:24:CYS:SG	16:AQ:27:CYS:N	2.65	0.69
17:AR:10:LYS:O	17:AR:13:GLN:HB2	1.92	0.69
18:AS:32:TYR:H	18:AS:32:TYR:HD1	1.39	0.69
8:AI:62:TRP:HB2	20:AU:35:ARG:HH12	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:110:ASP:CA	20:AU:88:LYS:HD2	2.23	0.69
22:AW:72:LEU:CD1	22:AW:77:ALA:HA	2.22	0.69
24:BA:931:G:H21	49:B2:25:ALA:N	1.90	0.69
24:BA:400:G:N1	50:B3:63:TYR:HE2	1.91	0.69
51:B4:10:LYS:O	51:B4:12:SER:N	2.25	0.69
24:BA:2286:A:H2	52:B5:27:LYS:HG2	1.58	0.69
24:BA:1062:G:O6	24:BA:1077:A:C6	2.45	0.69
24:BA:1667:G:N2	24:BA:1991:U:N3	2.41	0.69
24:BA:1853:A:O2'	24:BA:1854:A:H5'	1.92	0.69
24:BA:2219:G:C2'	24:BA:2224:G:H5'	2.22	0.69
24:BA:2225:A:O2'	24:BA:2226:C:OP2	2.10	0.69
24:BA:245:G:N2	24:BA:254:G:H1'	2.06	0.69
24:BA:2537:U:H2'	24:BA:2538:C:H6	1.53	0.69
24:BA:256:A:H2'	24:BA:257:A:C8	2.26	0.69
24:BA:270(A):A:H61	24:BA:270(X):G:C2'	2.02	0.69
24:BA:1754:C:N3	24:BA:2717:G:H5'	2.07	0.69
24:BA:281:G:N3	24:BA:281:G:H2'	2.07	0.69
24:BA:399:G:C6	24:BA:400:G:H1'	2.27	0.69
24:BA:443:A:OP1	29:BF:46:ARG:HB3	1.91	0.69
24:BA:28:A:H1'	24:BA:513:A:C6	2.26	0.69
24:BA:792:G:H21	24:BA:2072:G:C1'	2.05	0.69
24:BA:860:U:C5	24:BA:861:A:C8	2.80	0.69
25:BB:38:C:H3'	25:BB:38:C:C6	2.28	0.69
27:BD:22:SER:HA	27:BD:205:VAL:O	1.92	0.69
27:BD:37:LEU:HD11	27:BD:62:TYR:O	1.91	0.69
28:BE:22:PRO:CB	28:BE:185:LYS:H	2.04	0.69
30:BG:125:PHE:CD1	30:BG:131:TYR:N	2.60	0.69
34:BM:33:LEU:C	34:BM:35:ARG:H	1.94	0.69
37:BP:137:TYR:O	37:BP:138:ASP:OD1	2.10	0.69
37:BP:74:TYR:OH	37:BP:94:VAL:N	2.24	0.69
38:BQ:104:ARG:NH2	38:BQ:107:ASP:OD1	2.25	0.69
39:BR:69:VAL:HG13	39:BR:73:LEU:HD21	1.74	0.69
28:BE:8:LYS:HD2	40:BS:3:ARG:CG	2.22	0.69
41:BT:108:GLU:O	41:BT:110:VAL:N	2.25	0.69
42:BU:16:PRO:HD3	42:BU:100:ARG:NH1	2.07	0.69
24:BA:138:G:N7	44:BW:40:LYS:HE3	2.07	0.69
44:BW:52:VAL:O	44:BW:82:GLN:HB3	1.92	0.69
47:BZ:11:ARG:O	47:BZ:14:ARG:NH2	2.25	0.69
32:BK:93:THR:O	32:BK:96:ASP:HB2	1.92	0.69
24:BA:2180:U:H2'	24:BA:2181:G:H8	1.58	0.69
24:BA:2671:A:OP1	28:BE:206:LYS:HE3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:OP1	11:AL:109:VAL:HA	1.92	0.69
1:AA:1361:G:H3'	1:AA:1361:G:H8	1.56	0.69
1:AA:1454:G:H2'	1:AA:1455:G:C8	2.23	0.69
1:AA:1511:G:H2'	1:AA:1512:U:O4'	1.92	0.69
1:AA:1539:C:H2'	1:AA:1540:U:C6	2.26	0.69
1:AA:198:G:OP2	1:AA:198:G:H8	1.74	0.69
1:AA:19:C:O2	1:AA:572:A:C2	2.45	0.69
1:AA:224:C:H2'	1:AA:225:C:H6	1.55	0.69
1:AA:251:G:H4'	1:AA:252:U:O5'	1.92	0.69
1:AA:251:G:H5'	1:AA:252:U:OP1	1.92	0.69
1:AA:363:A:O2'	1:AA:364:A:H5'	1.91	0.69
1:AA:836:G:P	20:AU:61:LYS:HZ1	2.15	0.69
1:AA:989:C:H2'	1:AA:990:C:H5'	1.73	0.69
4:AE:42:ILE:HD11	4:AE:202:PRO:CB	2.23	0.69
8:AI:77:ARG:CA	8:AI:80:ARG:HD2	2.09	0.69
10:AK:37:ARG:HD2	10:AK:38:ILE:N	2.07	0.69
14:AO:43:VAL:CG1	14:AO:44:THR:N	2.54	0.69
19:AT:81:ARG:CG	19:AT:84:LEU:HD21	2.22	0.69
21:AV:58:VAL:HG23	21:AV:60:VAL:HG23	1.75	0.69
23:AX:6:ARG:NH1	23:AX:15:ARG:CZ	2.56	0.69
50:B3:42:PHE:HB2	50:B3:58:ARG:HH12	1.55	0.69
52:B5:32:ASN:CG	52:B5:33:LYS:N	2.43	0.69
24:BA:1184:G:H2'	24:BA:1185:C:C6	2.27	0.69
24:BA:120:U:H1'	24:BA:149:A:H1'	1.75	0.69
24:BA:1264:G:H5''	24:BA:1265:A:C5'	2.21	0.69
24:BA:1646:C:C5'	24:BA:1647:G:H5'	2.22	0.69
24:BA:1670:C:OP2	24:BA:1671:U:C5	2.43	0.69
24:BA:1754:C:OP1	40:BS:98:LYS:HD2	1.93	0.69
24:BA:1932:A:C4	24:BA:1969:A:N6	2.60	0.69
24:BA:2259:G:C5'	24:BA:2427:C:H2'	2.22	0.69
24:BA:266:G:C2'	24:BA:267:C:O5'	2.41	0.69
24:BA:2811:G:OP1	28:BE:60:ASN:ND2	2.24	0.69
24:BA:308:G:N2	24:BA:309:G:H1'	2.07	0.69
24:BA:383:U:C2	24:BA:385:C:N4	2.59	0.69
24:BA:602:G:H4'	24:BA:603:A:O3'	1.92	0.69
24:BA:608:A:H2'	24:BA:609:A:H5'	1.72	0.69
24:BA:618:G:H2'	24:BA:618(A):C:H6	1.54	0.69
24:BA:796:C:O2'	24:BA:797:C:H5'	1.93	0.69
27:BD:226:MET:HE2	27:BD:226:MET:HA	1.73	0.69
27:BD:246:PRO:HG3	27:BD:252:TRP:CE3	2.27	0.69
28:BE:111:ARG:HB2	28:BE:160:TYR:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:176:ILE:CD1	28:BE:179:GLU:HG2	2.21	0.69
29:BF:6:VAL:N	29:BF:20:LEU:CD1	2.53	0.69
29:BF:43:LYS:HG3	29:BF:99:TYR:N	2.08	0.69
30:BG:120:LEU:HD13	30:BG:181:ARG:HG2	1.73	0.69
31:BH:144:VAL:O	31:BH:147:ASN:HB2	1.92	0.69
31:BH:29:PRO:HD3	31:BH:79:VAL:O	1.92	0.69
32:BK:22:LYS:HB3	32:BK:23:PRO:HD2	1.74	0.69
34:BM:90:MET:HB3	34:BM:98:VAL:HG22	1.74	0.69
38:BQ:38:VAL:CB	38:BQ:39:PRO:HD3	2.21	0.69
39:BR:39:ILE:HD11	39:BR:49:VAL:HG12	1.74	0.69
46:BY:103:ARG:NE	46:BY:103:ARG:HA	2.08	0.69
46:BY:4:ARG:HG2	46:BY:38:TYR:O	1.92	0.69
46:BY:78:LYS:HG2	46:BY:79:ARG:H	1.56	0.69
47:BZ:68:GLU:CB	47:BZ:80:HIS:O	2.39	0.69
32:BK:97:ILE:O	32:BK:100:ALA:HB3	1.91	0.69
26:BC:63:SER:HA	26:BC:160:ARG:NH1	2.07	0.69
49:B2:36:VAL:O	49:B2:36:VAL:HG23	1.92	0.69
1:AA:1265:G:O6	1:AA:1266:G:N3	2.24	0.69
1:AA:1238:A:H62	1:AA:1301:U:H3	1.39	0.69
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.23	0.69
1:AA:389:A:C2	1:AA:390:C:O4'	2.45	0.69
1:AA:409:G:OP1	6:AG:24:GLU:HB3	1.92	0.69
1:AA:410:G:N3	1:AA:432:A:N6	2.39	0.69
1:AA:573:A:C2	1:AA:574:A:C6	2.80	0.69
1:AA:760:G:N2	19:AT:104:LYS:HB3	2.08	0.69
1:AA:902:G:HO2'	1:AA:903:G:H5'	1.55	0.69
8:AI:60:PHE:CZ	20:AU:78:LEU:HD21	2.27	0.69
1:AA:736:C:H4'	8:AI:89:MET:SD	2.32	0.69
8:AI:98:LEU:CD2	20:AU:28:GLU:HA	2.20	0.69
9:AJ:85:TYR:HD1	9:AJ:154:TYR:HE1	1.41	0.69
10:AK:33:GLU:OE1	10:AK:36:LEU:HD11	1.91	0.69
12:AM:32:ALA:CA	12:AM:76:ASN:HD22	2.05	0.69
18:AS:21:VAL:HG23	18:AS:34:GLU:O	1.91	0.69
1:AA:237:C:OP1	19:AT:40:LYS:HE3	1.92	0.69
22:AW:76:ALA:O	22:AW:79:ARG:HG2	1.92	0.69
48:B1:12:SER:O	48:B1:16:LEU:HB3	1.93	0.69
53:B6:27:GLY:O	53:B6:31:LEU:HG	1.92	0.69
36:BO:56:SER:O	54:B7:13:ARG:NH1	2.26	0.69
24:BA:107:C:O2'	24:BA:108:U:H5'	1.93	0.69
24:BA:1179:C:H2'	24:BA:1180:C:C6	2.26	0.69
24:BA:1202:C:C4	24:BA:1203:G:H1'	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1424:G:C2	24:BA:1425:G:O4'	2.46	0.69
24:BA:1426:G:N7	24:BA:1427:A:N7	2.40	0.69
24:BA:150:C:O2	24:BA:151:C:C6	2.46	0.69
24:BA:188:G:O2'	24:BA:189:G:H5'	1.91	0.69
24:BA:2333:A:H1'	24:BA:2335:A:C2	2.26	0.69
24:BA:2543:G:C2	24:BA:2765:A:N3	2.60	0.69
24:BA:2051:A:N6	24:BA:2614:A:C8	2.61	0.69
24:BA:262:A:O2'	24:BA:263:C:H5'	1.92	0.69
24:BA:2636:U:H1'	24:BA:2783:G:H21	1.54	0.69
24:BA:2694:G:C5	24:BA:2695:C:C5	2.81	0.69
24:BA:2705:A:N7	24:BA:2706:G:N7	2.40	0.69
24:BA:2756:U:C6	24:BA:2758:A:N6	2.59	0.69
24:BA:398:G:C2	24:BA:399:G:H1'	2.27	0.69
24:BA:465:G:N7	24:BA:466:A:N7	2.41	0.69
24:BA:559:G:C2'	24:BA:560:C:O5'	2.40	0.69
24:BA:918:A:C2	24:BA:919:G:N7	2.60	0.69
24:BA:997:G:H5''	41:BT:92:ARG:NH1	2.07	0.69
25:BB:44:G:N2	25:BB:48:A:H1'	2.07	0.69
27:BD:73:VAL:HB	27:BD:121:PRO:HD3	1.72	0.69
27:BD:137:PRO:HG2	27:BD:140:THR:HG21	1.73	0.69
24:BA:1791:A:OP1	27:BD:213:ARG:HD3	1.92	0.69
28:BE:50:GLY:H	28:BE:76:ARG:HG3	1.56	0.69
29:BF:184:TYR:O	29:BF:188:ARG:HG2	1.93	0.69
35:BN:38:VAL:HG12	35:BN:59:LYS:O	1.93	0.69
37:BP:137:TYR:CD2	37:BP:138:ASP:N	2.61	0.69
39:BR:29:PHE:HD1	39:BR:30:ARG:H	1.40	0.69
39:BR:67:ARG:HE	39:BR:71:ARG:HG2	1.58	0.69
40:BS:111:ARG:HA	40:BS:114:LEU:HB3	1.72	0.69
41:BT:108:GLU:O	41:BT:109:LEU:C	2.31	0.69
41:BT:52:ARG:O	41:BT:54:LYS:N	2.25	0.69
41:BT:93:LYS:CG	42:BU:10:LYS:NZ	2.56	0.69
42:BU:20:LEU:HD23	42:BU:66:ARG:NH2	2.08	0.69
46:BY:104:PHE:HZ	46:BY:120:ILE:HG21	1.56	0.69
47:BZ:27:GLU:N	47:BZ:69:PHE:HE1	1.91	0.69
32:BK:110:ASP:OD1	32:BK:113:ARG:HG3	1.93	0.69
32:BK:127:VAL:HG13	32:BK:141:LYS:N	2.08	0.69
3:AD:62:C:C2	3:AD:63:G:N7	2.61	0.69
3:AD:64:C:H2'	3:AD:65:U:C6	2.28	0.69
26:BC:116:THR:HG22	26:BC:146:GLY:O	1.93	0.69
24:BA:363(A):A:C2	24:BA:363(B):G:C8	2.80	0.69
1:AA:1118:C:H1'	1:AA:1179:A:N9	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.55	0.69
1:AA:1468:A:H2'	1:AA:1469:G:C5'	2.22	0.69
1:AA:32:A:OP1	1:AA:398:C:H1'	1.92	0.69
1:AA:87:A:O2'	1:AA:88:C:H5'	1.92	0.69
3:AD:76:A:C8	24:BA:2432:A:C2	2.80	0.69
4:AE:80:ILE:HG12	4:AE:212:GLN:HG2	1.74	0.69
4:AE:211:ILE:HG22	4:AE:212:GLN:N	2.06	0.69
5:AF:35:GLU:HA	5:AF:38:ARG:HG3	1.74	0.69
1:AA:407:G:H5''	6:AG:115:ARG:HD2	1.73	0.69
8:AI:72:VAL:HG23	8:AI:73:ASN:H	1.57	0.69
11:AL:103:THR:CG2	11:AL:104:ARG:N	2.55	0.69
11:AL:45:ALA:O	11:AL:78:LYS:HB2	1.92	0.69
12:AM:10:GLY:CA	12:AM:16:LEU:HD21	2.20	0.69
13:AN:101:SER:O	13:AN:103:LEU:N	2.25	0.69
1:AA:1229:A:OP1	15:AP:116:THR:HG22	1.92	0.69
18:AS:14:ASN:HA	18:AS:42:ARG:NH1	2.07	0.69
19:AT:7:THR:CG2	19:AT:8:GLY:N	2.56	0.69
49:B2:28:LEU:HA	49:B2:33:GLN:OE1	1.93	0.69
24:BA:1055:G:O5'	24:BA:1055:G:H8	1.76	0.69
24:BA:1112:G:H2'	24:BA:1113:U:C5	2.27	0.69
24:BA:1472:A:O2'	24:BA:1473:G:H8	1.75	0.69
24:BA:1488:G:H2'	24:BA:1489:U:C5'	2.20	0.69
24:BA:1630:G:H2'	24:BA:1630(A):C:H6	1.57	0.69
24:BA:1813:G:O4'	27:BD:46:GLN:HB3	1.92	0.69
24:BA:1879:C:H2'	24:BA:1880:C:O4'	1.91	0.69
24:BA:1913:A:H2	24:BA:1917:U:H5	1.34	0.69
24:BA:1949:G:N2	24:BA:1958:C:C2	2.60	0.69
24:BA:2209:C:O4'	27:BD:150:LYS:HD3	1.91	0.69
24:BA:2520:C:O2'	24:BA:2521:C:H5'	1.90	0.69
24:BA:2575:C:H5''	24:BA:2576:G:OP2	1.93	0.69
24:BA:612:G:O2'	24:BA:615:G:H2'	1.92	0.69
24:BA:71:A:H5''	24:BA:73:A:C8	2.28	0.69
24:BA:830:G:O2'	24:BA:831:G:OP1	2.10	0.69
24:BA:865:C:O2	24:BA:865:C:H2'	1.92	0.69
25:BB:76:G:OP1	46:BY:36:LYS:CD	2.41	0.69
24:BA:783:A:C8	27:BD:227:ASN:OD1	2.44	0.69
27:BD:233:HIS:CD2	27:BD:252:TRP:HH2	2.10	0.69
24:BA:1567:A:H5''	27:BD:59:LYS:HD3	1.74	0.69
24:BA:2636:U:OP1	28:BE:79:ARG:N	2.26	0.69
29:BF:82:ILE:HG12	29:BF:82:ILE:O	1.91	0.69
24:BA:2303:G:O2'	30:BG:132:ASN:CG	2.31	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:2:PRO:HA	30:BG:5:VAL:CG2	2.21	0.69
30:BG:47:LYS:HG2	30:BG:73:ALA:CB	2.16	0.69
30:BG:96:ARG:O	30:BG:99:MET:CB	2.35	0.69
33:BL:112:MET:O	33:BL:115:LEU:HB2	1.93	0.69
34:BM:76:SER:C	34:BM:78:TYR:H	1.95	0.69
37:BP:34:LEU:HD21	37:BP:105:GLU:HB2	1.73	0.69
37:BP:66:ILE:O	37:BP:67:ARG:HB3	1.93	0.69
42:BU:68:LYS:O	42:BU:69:LYS:CB	2.40	0.69
43:BV:65:LEU:CB	43:BV:68:ARG:HG2	2.21	0.69
46:BY:112:ARG:HG3	46:BY:112:ARG:HH11	1.57	0.69
46:BY:43:GLU:N	46:BY:43:GLU:OE2	2.25	0.69
3:AD:50:G:C2	3:AD:65:U:C2	2.80	0.69
26:BC:134:ARG:HD2	26:BC:136:LEU:HD11	1.73	0.69
24:BA:273(F):C:O2'	24:BA:363(A):A:C2	2.45	0.69
1:AA:435:C:H2'	1:AA:436:C:O4'	1.91	0.69
1:AA:129(A):G:O2'	1:AA:130:A:OP2	2.07	0.69
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.06	0.69
1:AA:173:U:C1'	1:AA:197:A:N3	2.56	0.69
1:AA:41:G:H2'	1:AA:42:G:C8	2.27	0.69
1:AA:583:A:H2'	1:AA:584:G:O4'	1.93	0.69
1:AA:632:A:H2'	1:AA:633:G:O4'	1.92	0.69
2:AC:44:A:C2	2:AC:45:G:H1'	2.28	0.69
2:AC:4:G:H2'	2:AC:5:G:C8	2.28	0.69
3:AD:68:U:O2'	3:AD:69:C:H5'	1.92	0.69
4:AE:22:LYS:HA	4:AE:40:HIS:CE1	2.26	0.69
5:AF:99:VAL:HG23	5:AF:100:ALA:N	2.07	0.69
8:AI:82:ARG:O	8:AI:85:VAL:HG23	1.92	0.69
10:AK:100:ILE:HD13	10:AK:125:ARG:HE	1.58	0.69
12:AM:9:ARG:O	12:AM:94:VAL:HG13	1.91	0.69
13:AN:23:ALA:HA	13:AN:28:THR:HG23	1.74	0.69
14:AO:28:LYS:CG	14:AO:33:ARG:HH12	2.06	0.69
14:AO:52:LEU:N	14:AO:52:LEU:HD23	2.08	0.69
15:AP:100:GLY:O	15:AP:101:GLN:O	2.10	0.69
15:AP:46:LYS:HG3	15:AP:47:ASP:OD1	1.92	0.69
17:AR:71:GLN:HB2	17:AR:78:TYR:CE1	2.28	0.69
49:B2:11:SER:H	49:B2:12:PRO:HD3	1.57	0.69
49:B2:50:VAL:CG2	49:B2:53:LEU:HD12	2.22	0.69
51:B4:55:ARG:O	51:B4:57:VAL:HG22	1.93	0.69
24:BA:1125:G:H5''	55:B8:4:ARG:HD3	1.74	0.69
24:BA:1471:A:C6	24:BA:1473:G:C8	2.81	0.69
24:BA:1488:G:C6	24:BA:1489:U:H1'	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1519:G:C3'	24:BA:1520:U:O4'	2.40	0.69
24:BA:1539:G:H2'	24:BA:1540:G:H8	1.58	0.69
24:BA:1634:A:O3'	24:BA:1635:G:N7	2.25	0.69
24:BA:752:A:N6	24:BA:1781:C:H4'	2.08	0.69
24:BA:1891:G:H3'	24:BA:1892:C:C6	2.27	0.69
24:BA:1918:A:N7	24:BA:1919:A:N6	2.40	0.69
24:BA:2014:A:H2'	24:BA:2015:A:N3	2.07	0.69
24:BA:805:G:O6	24:BA:2068:U:P	2.50	0.69
24:BA:225:A:N6	24:BA:419:C:H4'	2.06	0.69
24:BA:2503:A:HO2'	24:BA:2504:U:H5	0.76	0.69
24:BA:2537:U:C4	24:BA:2538:C:N4	2.61	0.69
24:BA:281:G:C1'	24:BA:427:U:O2	2.39	0.69
24:BA:544:C:C2'	24:BA:545:G:H5'	2.23	0.69
24:BA:650:C:OP1	54:B7:17:THR:OG1	2.08	0.69
24:BA:784:A:OP1	24:BA:2588:G:H5''	1.92	0.69
27:BD:119:ALA:HB2	27:BD:130:ALA:H	1.57	0.69
28:BE:19:ARG:HG2	28:BE:20:ALA:N	2.07	0.69
29:BF:153:SER:OG	29:BF:190:GLU:HB2	1.93	0.69
24:BA:586:A:C4'	29:BF:89:VAL:HG21	2.22	0.69
30:BG:96:ARG:N	30:BG:99:MET:HG3	2.06	0.69
31:BH:83:TYR:HE1	31:BH:138:LYS:HD3	1.58	0.69
33:BL:10:LEU:HD12	33:BL:23:VAL:HG22	1.74	0.69
24:BA:1007:C:O2'	34:BM:108:PRO:HB3	1.92	0.69
34:BM:74:ARG:HG2	34:BM:74:ARG:HH11	1.57	0.69
41:BT:33:ARG:NH1	41:BT:33:ARG:CB	2.56	0.69
42:BU:6:LYS:NZ	42:BU:10:LYS:HD2	2.07	0.69
44:BW:17:ALA:HB1	44:BW:21:PHE:CZ	2.28	0.69
45:BX:23:ARG:HH21	45:BX:39:VAL:HG13	1.58	0.69
46:BY:100:VAL:HG23	46:BY:137:ILE:CD1	2.22	0.69
46:BY:76:LEU:HA	46:BY:82:ARG:O	1.93	0.69
3:AD:48:C:N4	3:AD:59:U:C2	2.60	0.69
26:BC:211:SER:HB2	26:BC:223:ARG:HH21	1.57	0.69
1:AA:1436:U:H2'	1:AA:1437:C:O4'	1.93	0.69
1:AA:129(A):G:N2	1:AA:191(A):G:C4	2.61	0.69
1:AA:708:C:H4'	13:AN:37:GLY:HA3	1.75	0.69
1:AA:828:A:H5''	1:AA:859:A:N1	2.08	0.69
1:AA:961:U:H5'	1:AA:984:C:C1'	2.21	0.69
2:AC:31:G:N2	2:AC:40:C:C4	2.61	0.69
3:AD:32:C:H1'	9:AJ:86:GLN:HE22	1.56	0.69
6:AG:132:ARG:NH1	6:AG:132:ARG:HG2	2.00	0.69
7:AH:48:ALA:HB3	7:AH:54:ALA:N	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:642:A:C5	10:AK:115:SER:HA	2.28	0.69
4:AE:181:PHE:CD1	10:AK:71:GLY:HA3	2.27	0.69
11:AL:101:PHE:C	11:AL:102:LEU:HD23	2.12	0.69
12:AM:7:LYS:HG3	12:AM:71:LEU:CD1	2.22	0.69
13:AN:62:GLN:CD	13:AN:63:LEU:N	2.46	0.69
24:BA:974:G:O2'	24:BA:1186:G:H1'	1.92	0.69
24:BA:1212:G:H3'	24:BA:1212:G:H8	1.58	0.69
24:BA:1430:C:H2'	24:BA:1431:U:C6	2.27	0.69
24:BA:1488:G:N1	24:BA:1489:U:H1'	2.07	0.69
24:BA:1492:G:H2'	24:BA:1493:C:N3	2.07	0.69
24:BA:1810:A:C2'	24:BA:1811:G:H5'	2.22	0.69
24:BA:1944:U:C6	24:BA:1944:U:H3'	2.27	0.69
24:BA:1268:A:OP2	24:BA:2006:C:OP2	2.11	0.69
24:BA:2311:A:C2	30:BG:45:GLU:CD	2.66	0.69
24:BA:2348:U:O4	24:BA:2382:G:N2	2.26	0.69
24:BA:2467:C:OP1	55:B8:8:LYS:CE	2.40	0.69
24:BA:2553:G:C2	24:BA:2554:U:H1'	2.22	0.69
24:BA:270:A:C2	24:BA:370:G:H1'	2.28	0.69
24:BA:293:U:C3'	24:BA:293:U:C6	2.75	0.69
24:BA:29:U:C2'	24:BA:30:G:C8	2.72	0.69
24:BA:328:U:H6	24:BA:328:U:H3'	1.58	0.69
24:BA:387:U:H4'	24:BA:388:G:H1'	1.75	0.69
24:BA:391:G:O2'	24:BA:392:C:H5'	1.92	0.69
24:BA:479:A:H1'	24:BA:480:A:H8	1.55	0.69
24:BA:631:A:C8	24:BA:631:A:H3'	2.27	0.69
24:BA:806:C:C2	24:BA:807:U:H5	2.11	0.69
24:BA:814:C:C2	24:BA:815:C:C5	2.81	0.69
24:BA:881:G:N2	24:BA:896:A:H61	1.90	0.69
24:BA:933:A:H2'	24:BA:934:G:H5'	1.73	0.69
25:BB:100:G:H2'	25:BB:101:A:H8	1.50	0.69
25:BB:75:G:N7	25:BB:76:G:C2	2.61	0.69
27:BD:208:LYS:NZ	27:BD:211:ARG:CG	2.53	0.69
24:BA:730:C:P	27:BD:211:ARG:HH22	2.15	0.69
27:BD:64:ILE:O	27:BD:65:ILE:HD13	1.93	0.69
28:BE:27:LEU:CD1	28:BE:30:PRO:HD3	2.21	0.69
28:BE:59:VAL:HG12	28:BE:62:PRO:HD2	1.74	0.69
28:BE:92:THR:O	28:BE:95:ILE:HB	1.93	0.69
29:BF:103:LYS:HB3	29:BF:107:LYS:HE3	1.74	0.69
29:BF:119:ARG:HD3	29:BF:120:GLU:N	2.07	0.69
29:BF:62:ARG:HG2	29:BF:63:LYS:HE2	1.74	0.69
30:BG:57:ALA:N	30:BG:68:PRO:HB2	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:105:LEU:C	31:BH:106:THR:HG1	1.96	0.69
34:BM:48:MET:C	34:BM:50:ASP:N	2.39	0.69
34:BM:89:LYS:HD2	34:BM:90:MET:H	1.55	0.69
36:BO:99:LEU:HD22	36:BO:101:VAL:HG22	1.75	0.69
37:BP:22:LYS:HE3	37:BP:23:GLY:N	2.07	0.69
38:BQ:107:ASP:OD2	38:BQ:108:GLY:N	2.25	0.69
39:BR:58:LEU:H	39:BR:65:VAL:HG21	1.57	0.69
39:BR:92:TYR:O	39:BR:98:VAL:HG21	1.92	0.69
42:BU:25:LEU:HA	42:BU:28:GLU:HB2	1.74	0.69
42:BU:2:PHE:HB3	42:BU:13:ARG:HH22	1.58	0.69
42:BU:62:LEU:HD11	42:BU:96:ILE:HD13	1.75	0.69
42:BU:92:THR:OG1	42:BU:93:GLU:N	2.25	0.69
43:BV:69:LEU:HG	43:BV:109:GLU:HA	1.74	0.69
45:BX:38:ILE:HG23	45:BX:60:PHE:CZ	2.28	0.69
45:BX:42:VAL:CG2	45:BX:61:ILE:HG21	2.22	0.69
46:BY:49:ARG:O	46:BY:50:GLN:C	2.31	0.69
47:BZ:31:VAL:HG13	47:BZ:65:GLY:O	1.93	0.69
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.07	0.69
1:AA:1178:G:O5'	1:AA:1178:G:H8	1.76	0.69
1:AA:1187:G:H2'	1:AA:1188:A:C8	2.28	0.69
1:AA:1392:G:H2'	1:AA:1393:U:H6	1.58	0.69
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.57	0.69
1:AA:20:U:H6	1:AA:572:A:C2	2.11	0.69
1:AA:30:U:O2'	1:AA:31:G:OP1	2.10	0.69
1:AA:352:C:H4'	1:AA:354:G:OP1	1.92	0.69
1:AA:509:A:N3	1:AA:543:C:O2'	2.19	0.69
1:AA:519:C:N4	1:AA:520:A:C2	2.61	0.69
4:AE:116:GLU:HG2	4:AE:117:GLU:H	1.58	0.69
4:AE:144:ARG:O	4:AE:147:LYS:HB3	1.91	0.69
5:AF:120:VAL:O	5:AF:124:ILE:HG13	1.93	0.69
11:AL:16:ARG:HB3	11:AL:64:THR:HG1	1.58	0.69
12:AM:46:ARG:HD3	12:AM:64:GLU:HB3	1.73	0.69
12:AM:79:ARG:HH22	12:AM:82:ILE:HD12	1.57	0.69
13:AN:22:HIS:HB2	13:AN:85:ARG:HB2	1.73	0.69
1:AA:1459:C:OP1	22:AW:27:LYS:NZ	2.25	0.69
49:B2:10:LYS:HG2	49:B2:12:PRO:HD2	1.74	0.69
3:AD:74:C:OP2	50:B3:22:ILE:HD11	1.93	0.69
50:B3:5:ILE:CD1	50:B3:60:GLN:NE2	2.56	0.69
51:B4:43:HIS:O	51:B4:43:HIS:CD2	2.45	0.69
24:BA:1076:C:O2	33:BL:91:PRO:HD2	1.93	0.69
24:BA:1241:A:P	24:BA:1241:A:N3	2.65	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1249:U:O4	36:BO:21:ARG:CZ	2.40	0.69
24:BA:1386:C:H2'	24:BA:1387:C:H6	1.57	0.69
24:BA:1533:C:O2	24:BA:1533:C:H2'	1.93	0.69
24:BA:1608:A:O2'	24:BA:1609:A:H5'	1.92	0.69
24:BA:1794:U:H2'	24:BA:1795:C:C6	2.28	0.69
24:BA:1853:A:C4	24:BA:1854:A:C8	2.81	0.69
24:BA:1972:A:N3	24:BA:1973:G:N7	2.41	0.69
24:BA:2072:G:C4	24:BA:2073:C:C5	2.81	0.69
24:BA:231:C:H42	24:BA:232:G:N2	1.90	0.69
24:BA:2398:U:H2'	24:BA:2399:G:H8	1.58	0.69
24:BA:2459:A:C2	24:BA:2492:U:O4	2.46	0.69
24:BA:2826:A:N7	24:BA:2827:C:C5	2.60	0.69
24:BA:298:G:O5'	24:BA:298:G:C8	2.44	0.69
24:BA:339:U:H2'	24:BA:340:A:C8	2.27	0.69
24:BA:463:G:N2	24:BA:466:A:OP2	2.23	0.69
24:BA:556:G:H8	24:BA:556:G:O5'	1.76	0.69
24:BA:612:G:C4'	24:BA:616:A:N6	2.48	0.69
24:BA:628:G:C8	24:BA:628:G:O5'	2.44	0.69
24:BA:691:C:O2'	27:BD:45:ASN:ND2	2.26	0.69
24:BA:712:G:C5	24:BA:713:G:N7	2.60	0.69
24:BA:864:G:H2'	24:BA:865:C:C6	2.28	0.69
24:BA:988:A:H62	49:B2:13:ILE:CG1	2.05	0.69
25:BB:24:G:N2	25:BB:27:C:N4	2.41	0.69
27:BD:76:PRO:CB	27:BD:118:VAL:HG22	2.22	0.69
27:BD:142:VAL:HB	27:BD:191:ALA:HB1	1.75	0.69
27:BD:58:HIS:CE1	27:BD:217:ARG:HA	2.27	0.69
27:BD:244:ARG:CA	27:BD:252:TRP:CD1	2.75	0.69
28:BE:104:VAL:CG1	28:BE:105:THR:N	2.56	0.69
29:BF:201:VAL:HG12	29:BF:205:ARG:NE	2.07	0.69
30:BG:181:ARG:HB2	30:BG:181:ARG:NH2	2.07	0.69
31:BH:125:VAL:CA	31:BH:131:VAL:HG22	2.21	0.69
31:BH:94:TYR:N	31:BH:95:ARG:HH21	1.90	0.69
24:BA:270(P):C:OP2	32:BK:45:LYS:HD3	1.93	0.69
33:BL:12:LEU:CD2	33:BL:23:VAL:HG23	2.23	0.69
35:BN:3:GLN:HE22	35:BN:33:ALA:CB	2.00	0.69
35:BN:63:VAL:HG23	35:BN:64:ARG:N	2.06	0.69
35:BN:69:VAL:N	35:BN:104:ARG:NH2	2.40	0.69
36:BO:113:LYS:NZ	36:BO:114:ILE:O	2.22	0.69
37:BP:120:ILE:O	37:BP:121:ALA:C	2.29	0.69
37:BP:39:PRO:HD2	37:BP:98:LYS:HA	1.74	0.69
39:BR:10:ARG:O	39:BR:14:VAL:HG23	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:53:ARG:HH22	40:BS:102:ILE:N	1.86	0.69
40:BS:87:ASP:C	40:BS:88:ILE:HD12	2.14	0.69
43:BV:17:VAL:O	43:BV:20:VAL:CG1	2.40	0.69
44:BW:35:THR:HG22	44:BW:37:THR:H	1.58	0.69
24:BA:456:C:C5	44:BW:68:ARG:NH1	2.59	0.69
46:BY:95:PRO:CG	46:BY:131:ARG:N	2.49	0.69
47:BZ:40:GLN:NE2	47:BZ:42:GLY:O	2.25	0.69
47:BZ:50:ASN:HB3	47:BZ:63:VAL:HG22	1.73	0.69
47:BZ:72:ARG:O	47:BZ:73:GLY:O	2.11	0.69
3:AD:56:C:C5'	26:BC:133:PRO:HG3	2.21	0.69
26:BC:99:ILE:HG12	26:BC:107:TRP:CZ3	2.27	0.69
3:AD:53:G:N2	3:AD:62:C:C2	2.61	0.69
3:AD:11:C:O2'	3:AD:12:U:H5'	1.93	0.69
1:AA:1068:G:N7	1:AA:1094:G:H8	1.90	0.69
1:AA:954:G:N2	1:AA:1228:C:C4	2.61	0.69
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.55	0.69
1:AA:1529:G:H5''	1:AA:1530:G:OP2	1.93	0.69
1:AA:169:C:O2'	1:AA:170:U:H5'	1.92	0.69
1:AA:408:A:H2'	1:AA:409:G:H8	1.56	0.69
1:AA:689:C:C4	1:AA:690:G:N7	2.60	0.69
1:AA:754:C:H1'	17:AR:69:TYR:CG	2.28	0.69
1:AA:922:G:H5''	7:AH:20:GLN:HE21	1.57	0.69
1:AA:928:G:H22	1:AA:1390:U:H1'	1.56	0.69
1:AA:938:A:H2'	1:AA:939:G:C5'	2.23	0.69
1:AA:96:G:H2'	1:AA:97:U:H6	1.57	0.69
4:AE:69:LEU:HB3	4:AE:162:ILE:CG2	2.23	0.69
6:AG:159:ARG:O	6:AG:163:GLU:HB2	1.91	0.69
6:AG:74:GLN:O	6:AG:77:ASN:HB2	1.93	0.69
8:AI:19:LEU:HD23	8:AI:23:LYS:HZ2	1.52	0.69
8:AI:21:LEU:HA	8:AI:24:GLU:OE1	1.93	0.69
8:AI:19:LEU:HB3	8:AI:23:LYS:HD2	1.73	0.69
9:AJ:118:VAL:O	9:AJ:121:ALA:HB3	1.93	0.69
9:AJ:56:GLN:CD	9:AJ:56:GLN:H	1.95	0.69
9:AJ:74:GLU:HG2	9:AJ:75:VAL:H	1.58	0.69
14:AO:104:VAL:HG12	14:AO:105:TYR:CD1	2.28	0.69
14:AO:28:LYS:CD	14:AO:33:ARG:HH12	2.04	0.69
14:AO:69:TYR:CE2	14:AO:71:PRO:HA	2.28	0.69
14:AO:93:LEU:HD12	14:AO:96:VAL:CG2	2.17	0.69
1:AA:1228:C:H4'	15:AP:116:THR:HA	1.75	0.69
21:AV:16:LEU:H	21:AV:16:LEU:HD13	1.58	0.69
21:AV:32:LYS:CB	21:AV:50:ALA:HB3	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:60:ASN:O	48:B1:64:ARG:HB2	1.93	0.69
49:B2:37:LEU:O	49:B2:37:LEU:HD23	1.93	0.69
49:B2:51:ALA:O	49:B2:53:LEU:N	2.25	0.69
51:B4:39:MET:SD	51:B4:40:LYS:N	2.66	0.69
51:B4:55:ARG:H	51:B4:55:ARG:NE	1.90	0.69
24:BA:1065:U:N3	24:BA:1069:A:OP2	2.21	0.69
24:BA:112:U:H2'	24:BA:112:U:O2	1.91	0.69
24:BA:1024:G:C2	24:BA:1139:G:N1	2.60	0.69
24:BA:1142(A):A:H3'	24:BA:1143:A:H5'	1.75	0.69
24:BA:1270:C:C5'	24:BA:1271:G:C5'	2.69	0.69
24:BA:1302:A:OP1	24:BA:1302:A:O4'	2.10	0.69
24:BA:1314:C:C2	24:BA:1315:C:C5	2.81	0.69
24:BA:1421:G:C2	24:BA:1422:G:N7	2.60	0.69
24:BA:1438:U:H2'	24:BA:1439:A:C5'	2.19	0.69
24:BA:1451:C:C4	24:BA:1454:U:OP1	2.46	0.69
24:BA:1526:G:H5''	24:BA:1527:G:OP1	1.93	0.69
24:BA:1606:G:O2'	24:BA:1608:A:C2	2.43	0.69
24:BA:1794:U:H2'	24:BA:1795:C:H6	1.56	0.69
24:BA:1856:G:H2'	24:BA:1857:G:C5'	2.23	0.69
24:BA:2213:U:H3'	24:BA:2213:U:O2	1.91	0.69
3:AD:76:A:C3'	24:BA:2432:A:O2'	2.40	0.69
24:BA:2439:A:H4'	24:BA:2440:C:C5'	2.21	0.69
24:BA:248:G:N3	24:BA:2431:U:H4'	2.07	0.69
24:BA:2503:A:H4'	24:BA:2504:U:OP1	1.92	0.69
24:BA:2517:C:C2'	24:BA:2518:A:H5''	2.23	0.69
2:AC:76:A:N6	24:BA:2585:U:H1'	2.08	0.69
24:BA:297:C:N4	24:BA:298:G:C2	2.61	0.69
24:BA:349:G:C3'	24:BA:350:U:H5	2.05	0.69
24:BA:557:U:O3'	34:BM:112:LEU:CD2	2.41	0.69
24:BA:713:G:N3	24:BA:713:G:H2'	2.08	0.69
24:BA:822:U:C2	24:BA:823:G:C8	2.81	0.69
24:BA:84:A:H5'	45:BX:8:LYS:CE	2.20	0.69
24:BA:87:C:H5''	24:BA:88:G:C5'	2.22	0.69
24:BA:919:G:N2	24:BA:920:G:H1'	2.08	0.69
27:BD:232:PRO:HG2	27:BD:246:PRO:C	2.13	0.69
28:BE:100:GLU:O	28:BE:172:VAL:CG1	2.41	0.69
28:BE:116:VAL:O	28:BE:120:TRP:CD1	2.46	0.69
29:BF:62:ARG:CG	29:BF:63:LYS:HE2	2.23	0.69
31:BH:15:VAL:HG13	31:BH:17:VAL:HG12	1.73	0.69
31:BH:44:VAL:CG1	31:BH:51:ARG:HB3	2.23	0.69
32:BK:5:LEU:CB	32:BK:8:PRO:HD2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:23:VAL:HG13	33:BL:27:LEU:CD1	2.23	0.69
33:BL:67:PHE:O	33:BL:68:VAL:HG13	1.92	0.69
37:BP:134:ARG:NH1	37:BP:137:TYR:H	1.90	0.69
37:BP:58:PHE:C	37:BP:60:ARG:H	1.96	0.69
41:BT:47:TYR:OH	42:BU:77:ALA:N	2.26	0.69
24:BA:1225:C:OP1	42:BU:88:ARG:CZ	2.40	0.69
45:BX:67:LEU:HD11	45:BX:71:LYS:HZ1	1.58	0.69
46:BY:167:PRO:O	46:BY:168:GLU:CB	2.40	0.69
47:BZ:23:VAL:HA	47:BZ:38:VAL:CG1	2.22	0.69
4:AE:130:ARG:CB	4:AE:131:PRO:HD2	2.23	0.69
31:BH:156:ALA:HB1	31:BH:170:ARG:HB3	1.73	0.69
1:AA:1314:C:H2'	1:AA:1315:U:C5	2.28	0.69
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.56	0.69
1:AA:1419:G:O2'	1:AA:1420:C:H6	1.74	0.69
1:AA:14:U:H2'	1:AA:16:A:OP2	1.92	0.69
1:AA:173:U:H4'	1:AA:197:A:H1'	1.74	0.69
1:AA:36:C:H5''	14:AO:122:THR:O	1.93	0.69
1:AA:494:U:H2'	1:AA:494:U:O2	1.92	0.69
1:AA:909:A:H2'	1:AA:910:C:H5'	1.74	0.69
1:AA:955:U:H2'	1:AA:956:U:C6	2.26	0.69
1:AA:973:G:C3'	1:AA:974:A:H5''	2.23	0.69
3:AD:67:C:O2'	3:AD:68:U:H5'	1.92	0.69
4:AE:219:VAL:O	4:AE:223:ILE:CG1	2.40	0.69
6:AG:135:LEU:C	6:AG:137:SER:N	2.47	0.69
6:AG:31:CYS:O	6:AG:33:MET:SD	2.51	0.69
7:AH:92:LYS:HG3	7:AH:93:PRO:HD2	1.75	0.69
10:AK:12:ARG:HD2	10:AK:26:VAL:HG23	1.72	0.69
12:AM:24:VAL:CG2	12:AM:72:VAL:HG13	2.22	0.69
17:AR:41:GLU:HA	17:AR:44:LYS:HE3	1.76	0.69
17:AR:79:ARG:HA	17:AR:82:ILE:HD12	1.75	0.69
24:BA:1364:G:N7	50:B3:2:LYS:HB2	2.08	0.69
51:B4:11:THR:O	51:B4:14:ALA:HB3	1.92	0.69
54:B7:59:LYS:HA	54:B7:59:LYS:HE2	1.73	0.69
24:BA:1044:G:O2'	24:BA:1047:G:C2	2.46	0.69
24:BA:1275:A:H1'	38:BQ:12:ARG:NH2	2.07	0.69
24:BA:1526:G:N2	24:BA:1545(A):A:H62	1.91	0.69
24:BA:1789:A:H3'	24:BA:1790:C:C4'	2.23	0.69
24:BA:1824:G:H21	27:BD:253:GLN:HG2	1.55	0.69
24:BA:1827:C:H2'	24:BA:1828:G:O4'	1.92	0.69
24:BA:270(R):G:H2'	24:BA:270(S):G:C8	2.27	0.69
24:BA:270(W):G:H2'	24:BA:270(X):G:H8	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2780:G:N2	34:BM:97:ARG:CZ	2.56	0.69
24:BA:28:A:C2'	24:BA:29:U:H5'	2.22	0.69
24:BA:349:G:OP2	24:BA:349:G:C8	2.46	0.69
24:BA:349:G:N3	24:BA:349:G:H2'	2.08	0.69
24:BA:481:G:N2	24:BA:509:C:N3	2.39	0.69
24:BA:642:G:H8	24:BA:642:G:H3'	1.58	0.69
24:BA:209:C:H5'	24:BA:681:G:H4'	1.75	0.69
24:BA:696:G:H2'	24:BA:697:C:O5'	1.93	0.69
24:BA:730:C:H3'	24:BA:731:C:H5'	1.75	0.69
24:BA:807:U:O2	24:BA:807:U:H2'	1.91	0.69
24:BA:915:C:H2'	24:BA:916:G:C8	2.28	0.69
24:BA:941:A:N1	24:BA:942:G:N3	2.41	0.69
27:BD:57:GLY:H	27:BD:217:ARG:CD	2.06	0.69
27:BD:29:PRO:CB	27:BD:82:ILE:HG22	2.22	0.69
27:BD:75:ILE:HG23	27:BD:98:VAL:HB	1.75	0.69
29:BF:200:GLU:CD	29:BF:201:VAL:HG23	2.13	0.69
31:BH:133:VAL:HG22	31:BH:134:SER:N	2.07	0.69
31:BH:26:VAL:O	31:BH:79:VAL:HG11	1.93	0.69
33:BL:12:LEU:HB3	33:BL:13:PRO:HD2	1.74	0.69
34:BM:33:LEU:HD13	34:BM:34:LEU:H	1.57	0.69
34:BM:88:GLU:HB2	34:BM:89:LYS:NZ	2.08	0.69
36:BO:124:LYS:HB2	36:BO:143:GLY:C	2.13	0.69
36:BO:130:PHE:HE1	36:BO:145:PRO:HB3	1.58	0.69
40:BS:53:ARG:O	40:BS:64:ARG:CB	2.33	0.69
42:BU:4:ILE:HG13	42:BU:13:ARG:NE	2.07	0.69
42:BU:50:PRO:HG2	42:BU:53:GLU:OE1	1.93	0.69
43:BV:3:ALA:HB3	43:BV:107:LEU:HB3	1.74	0.69
44:BW:7:VAL:HG23	48:B1:28:MET:HB2	1.75	0.69
45:BX:82:PRO:CD	45:BX:97:ARG:N	2.46	0.69
3:AD:62:C:H2'	3:AD:63:G:C8	2.27	0.69
24:BA:2129:C:O2'	24:BA:2130:U:H5'	1.93	0.69
26:BC:151:GLU:O	26:BC:154:ARG:HB3	1.93	0.69
1:AA:1399:C:H4'	1:AA:1400:C:O5'	1.92	0.68
1:AA:817:C:O2'	1:AA:818:G:C5'	2.37	0.68
2:AC:7:G:O2'	2:AC:8:U:P	2.50	0.68
4:AE:220:ASP:O	4:AE:223:ILE:HB	1.93	0.68
6:AG:15:GLU:OE2	6:AG:59:ARG:NH2	2.26	0.68
6:AG:64:LEU:CD1	6:AG:75:PHE:CZ	2.76	0.68
6:AG:64:LEU:HD11	6:AG:75:PHE:CE1	2.27	0.68
8:AI:6:VAL:HG22	8:AI:8:ILE:CG1	2.22	0.68
9:AJ:113:GLU:CG	9:AJ:118:VAL:HB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:38:LEU:O	9:AJ:41:ARG:HB2	1.93	0.68
15:AP:2:ALA:N	15:AP:9:ILE:HG23	2.08	0.68
19:AT:27:PHE:O	19:AT:36:ILE:CD1	2.41	0.68
19:AT:6:LEU:HD12	19:AT:6:LEU:N	2.08	0.68
22:AW:89:ARG:O	22:AW:93:GLU:HG3	1.93	0.68
48:B1:24:LYS:HE2	48:B1:52:ILE:CG2	2.23	0.68
36:BO:56:SER:OG	54:B7:13:ARG:NE	2.26	0.68
54:B7:52:LYS:O	54:B7:54:GLU:N	2.26	0.68
24:BA:1024:G:N2	24:BA:1139:G:N1	2.41	0.68
24:BA:1056:G:N2	24:BA:1104:C:N4	2.41	0.68
24:BA:1153:C:H2'	24:BA:1154:G:C8	2.28	0.68
24:BA:1492:G:N2	24:BA:1499:C:C4	2.61	0.68
24:BA:1470:G:N2	24:BA:1522:G:N1	2.28	0.68
24:BA:1313:U:O2'	24:BA:1610:A:N1	2.25	0.68
24:BA:1685:C:O2'	24:BA:1686:C:C5'	2.41	0.68
24:BA:1805:U:H1'	27:BD:51:VAL:CG1	2.16	0.68
24:BA:1890:A:N3	24:BA:1891:G:H1'	2.08	0.68
24:BA:2211:G:H3'	24:BA:2211:G:N3	2.07	0.68
24:BA:2269:A:O2'	24:BA:2270:G:H5'	1.94	0.68
24:BA:2415:G:C6	24:BA:2416:C:C4	2.81	0.68
24:BA:2655:G:H2'	24:BA:2655:G:N3	2.07	0.68
24:BA:2682:U:O2	28:BE:21:VAL:HG11	1.93	0.68
24:BA:2736:G:N2	24:BA:2769:C:H1'	2.07	0.68
24:BA:422:A:N1	24:BA:423:A:C4	2.61	0.68
24:BA:468:G:H2'	24:BA:469:G:O4'	1.93	0.68
24:BA:448:U:O4	24:BA:582:G:N2	2.27	0.68
24:BA:727:A:O2'	24:BA:728:G:H5'	1.93	0.68
24:BA:861:A:N6	24:BA:917:A:C6	2.61	0.68
24:BA:967:C:H2'	24:BA:968:G:H8	1.56	0.68
27:BD:152:GLY:O	27:BD:153:ALA:C	2.29	0.68
27:BD:196:VAL:CG1	27:BD:197:GLY:N	2.52	0.68
27:BD:76:PRO:HB3	27:BD:118:VAL:HG22	1.74	0.68
28:BE:12:THR:HG22	28:BE:21:VAL:HG11	1.74	0.68
29:BF:157:VAL:HA	29:BF:176:LEU:O	1.93	0.68
33:BL:68:VAL:CB	33:BL:70:LYS:HE3	2.23	0.68
35:BN:96:THR:CG2	35:BN:97:ARG:N	2.36	0.68
36:BO:76:LYS:HZ3	36:BO:112:LEU:HD22	1.54	0.68
36:BO:97:PRO:O	36:BO:98:GLU:C	2.31	0.68
39:BR:73:LEU:N	39:BR:73:LEU:HD13	2.08	0.68
35:BN:99:PHE:HD1	40:BS:74:ARG:NH2	1.90	0.68
44:BW:83:VAL:HG23	44:BW:84:ALA:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:50:LYS:NZ	44:BW:85:PRO:CD	2.57	0.68
47:BZ:47:PRO:CG	47:BZ:53:MET:HB2	2.19	0.68
47:BZ:44:ARG:O	47:BZ:77:ARG:HB2	1.92	0.68
3:AD:59:U:OP1	3:AD:59:U:C2	2.46	0.68
24:BA:2134:A:N3	24:BA:2134:A:H5''	2.08	0.68
24:BA:2187:G:H2'	24:BA:2188:C:H6	1.57	0.68
1:AA:489:C:H2'	1:AA:490:G:C8	2.28	0.68
1:AA:498:A:O2'	1:AA:500:G:C8	2.46	0.68
1:AA:727:G:N2	1:AA:731:G:C5	2.61	0.68
4:AE:178:ARG:HE	4:AE:196:LEU:HD13	1.57	0.68
4:AE:212:GLN:NE2	4:AE:212:GLN:HA	2.05	0.68
4:AE:69:LEU:HD23	4:AE:91:PRO:CB	2.23	0.68
6:AG:128:VAL:HG21	6:AG:133:VAL:HG23	1.74	0.68
6:AG:34:GLU:CD	6:AG:35:ARG:N	2.47	0.68
6:AG:67:ILE:HD12	6:AG:68:TYR:N	2.08	0.68
9:AJ:155:ARG:HD3	9:AJ:156:TRP:H	1.57	0.68
9:AJ:38:LEU:HD12	9:AJ:41:ARG:CD	2.14	0.68
10:AK:117:GLY:O	10:AK:119:LEU:HD22	1.94	0.68
13:AN:34:ASP:HB2	13:AN:35:PRO:HD3	1.76	0.68
13:AN:25:TYR:CZ	13:AN:87:THR:HB	2.28	0.68
14:AO:33:ARG:HG2	14:AO:60:LEU:HD23	1.75	0.68
20:AU:70:ILE:HG22	20:AU:74:ARG:NE	2.09	0.68
22:AW:10:LEU:HD12	22:AW:11:SER:H	1.59	0.68
22:AW:75:ASN:N	22:AW:75:ASN:ND2	2.29	0.68
48:B1:60:ASN:O	48:B1:64:ARG:HG2	1.92	0.68
24:BA:1364:G:N7	50:B3:2:LYS:N	2.41	0.68
24:BA:1036:G:OP1	31:BH:59:ARG:NH2	2.26	0.68
24:BA:1206:G:H3'	24:BA:1206:G:C8	2.28	0.68
24:BA:1784:A:C2	24:BA:1785:A:N1	2.61	0.68
24:BA:1796:U:H2'	24:BA:1797:C:H6	1.57	0.68
24:BA:1913:A:N3	24:BA:1918:A:C6	2.61	0.68
24:BA:2030:A:O2'	24:BA:2031:A:O5'	2.11	0.68
24:BA:2053:G:C5'	28:BE:144:ARG:HA	2.23	0.68
24:BA:2370:G:O2'	52:B5:45:LYS:HD3	1.92	0.68
24:BA:2259:G:H5'	24:BA:2427:C:H3'	1.75	0.68
24:BA:245:G:H22	24:BA:254:G:H1'	1.58	0.68
24:BA:2553:G:N2	24:BA:2554:U:O2'	2.26	0.68
24:BA:2567:G:H2'	24:BA:2568:C:C6	2.28	0.68
24:BA:2572:A:H5'	24:BA:2574:G:C5'	2.23	0.68
24:BA:2596:U:O3'	27:BD:242:ARG:NE	2.27	0.68
24:BA:2627:G:H2'	24:BA:2628:C:H5'	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(L):U:H2'	24:BA:270(L):U:O2	1.93	0.68
24:BA:270(P):C:O2'	24:BA:270(Q):C:H5'	1.94	0.68
24:BA:270(U):C:H2'	24:BA:270(V):G:O4'	1.93	0.68
24:BA:2720:U:O4	24:BA:2872:G:C5	2.46	0.68
24:BA:2795:G:H2'	24:BA:2795:G:N3	2.08	0.68
24:BA:2846:G:H2'	24:BA:2846:G:N3	2.06	0.68
24:BA:630:G:C2'	24:BA:631:A:O5'	2.42	0.68
24:BA:800:A:H2	24:BA:802:A:C8	2.09	0.68
27:BD:6:PHE:O	27:BD:27:THR:CA	2.36	0.68
28:BE:110:GLY:HA2	28:BE:161:GLY:C	2.13	0.68
28:BE:80:GLU:HG2	28:BE:83:ASP:OD2	1.93	0.68
29:BF:118:ALA:HA	29:BF:122:LYS:NZ	2.07	0.68
29:BF:83:PHE:O	29:BF:84:VAL:O	2.11	0.68
33:BL:131:ALA:HB1	33:BL:136:VAL:CG1	2.22	0.68
35:BN:108:GLU:O	35:BN:109:LYS:HE2	1.94	0.68
35:BN:19:ILE:HD12	35:BN:20:MET:N	2.09	0.68
35:BN:31:LYS:O	35:BN:32:TYR:CD1	2.46	0.68
36:BO:121:LYS:HB2	36:BO:137:LYS:HB2	1.76	0.68
37:BP:85:LYS:NZ	47:BZ:10:THR:CG2	2.56	0.68
38:BQ:36:THR:HB	38:BQ:40:LYS:CD	2.23	0.68
38:BQ:56:LYS:O	38:BQ:58:GLY:N	2.26	0.68
40:BS:53:ARG:HA	40:BS:53:ARG:NE	2.09	0.68
41:BT:113:ALA:O	41:BT:116:ALA:HB3	1.93	0.68
41:BT:111:GLU:HA	41:BT:114:LYS:CD	2.23	0.68
42:BU:3:ALA:HB3	42:BU:12:TYR:HE2	1.57	0.68
45:BX:46:LYS:NZ	45:BX:52:SER:HB2	2.08	0.68
26:BC:104:LEU:HD11	26:BC:130:ILE:HD11	1.74	0.68
26:BC:73:ARG:HD3	26:BC:92:ASP:OD2	1.93	0.68
24:BA:2097:C:O2'	24:BA:2098:U:H5'	1.94	0.68
27:BD:111:LEU:HD12	27:BD:115:GLN:OE1	1.93	0.68
1:AA:1269:A:H2'	1:AA:1270:C:H4'	1.75	0.68
1:AA:1431:C:H2'	1:AA:1432:G:O4'	1.93	0.68
1:AA:186(B):C:O2'	1:AA:186(C):G:H5'	1.93	0.68
1:AA:192:U:H2'	1:AA:193:C:H6	1.59	0.68
1:AA:22:G:H3'	1:AA:23:C:H6	1.57	0.68
1:AA:266:G:O2'	1:AA:268:C:OP2	2.11	0.68
1:AA:412:A:OP2	1:AA:412:A:H4'	1.92	0.68
2:AC:60:U:OP2	2:AC:60:U:C6	2.45	0.68
4:AE:84:GLU:OE1	4:AE:216:SER:HA	1.94	0.68
5:AF:152:ILE:CG2	5:AF:167:TRP:HE3	2.06	0.68
6:AG:172:PRO:HG3	6:AG:193:ASP:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:14:ARG:HD2	10:AK:15:ASN:HD22	1.59	0.68
17:AR:26:GLU:H	17:AR:26:GLU:CD	1.96	0.68
17:AR:79:ARG:HB3	17:AR:79:ARG:HH11	1.58	0.68
8:AI:60:PHE:CE2	20:AU:78:LEU:HD21	2.28	0.68
54:B7:60:LEU:C	54:B7:60:LEU:HD23	2.13	0.68
24:BA:1198:U:H2'	24:BA:1199:U:C5	2.28	0.68
24:BA:1697:G:C3'	24:BA:1698:A:H5'	2.23	0.68
24:BA:1698:A:O2'	24:BA:1699:G:C5'	2.41	0.68
24:BA:1718:G:C8	24:BA:1725:G:N7	2.61	0.68
24:BA:1754:C:H5	40:BS:98:LYS:HD3	1.58	0.68
24:BA:1944:U:C3'	24:BA:1944:U:H6	2.05	0.68
24:BA:1769:G:H4'	24:BA:1958:C:H5''	1.75	0.68
24:BA:2311:A:H5'	30:BG:86:MET:CE	2.24	0.68
24:BA:2438:U:O2'	24:BA:2439:A:H5''	1.92	0.68
24:BA:2519:U:C6	24:BA:2542:A:C6	2.81	0.68
24:BA:271(B):G:H5''	24:BA:271(C):U:C5'	2.23	0.68
24:BA:503:A:H4'	24:BA:504:U:O5'	1.91	0.68
24:BA:528:A:C8	24:BA:2042:A:C6	2.81	0.68
24:BA:685:A:OP1	24:BA:686:G:N2	2.26	0.68
24:BA:728:G:C6	24:BA:762:U:C3'	2.74	0.68
24:BA:729:G:H2'	24:BA:730:C:O4'	1.93	0.68
25:BB:61:G:C2	25:BB:62:C:C4	2.81	0.68
25:BB:62:C:H2'	25:BB:63:G:H8	1.59	0.68
27:BD:221:VAL:O	27:BD:222:ARG:HG3	1.92	0.68
28:BE:131:ALA:HB1	28:BE:134:ILE:HG13	1.75	0.68
28:BE:152:LYS:HE3	28:BE:153:GLY:HA3	1.75	0.68
29:BF:103:LYS:HA	29:BF:106:ARG:NE	2.08	0.68
29:BF:152:GLU:O	29:BF:153:SER:HB3	1.93	0.68
29:BF:74:ARG:HH22	29:BF:76:GLY:H	1.37	0.68
31:BH:69:ARG:HB2	31:BH:69:ARG:CZ	2.22	0.68
33:BL:57:ILE:CA	33:BL:66:THR:O	2.35	0.68
33:BL:78:ILE:CD1	33:BL:131:ALA:HB2	2.23	0.68
24:BA:1076:C:H4'	33:BL:93:ARG:HH21	1.59	0.68
34:BM:22:THR:HG22	34:BM:61:ARG:HH12	1.57	0.68
35:BN:77:ILE:HG12	40:BS:75:ILE:CD1	2.14	0.68
37:BP:44:ALA:HB2	37:BP:70:PRO:HB3	1.75	0.68
40:BS:103:ARG:O	40:BS:104:ASN:C	2.32	0.68
40:BS:30:VAL:HG21	40:BS:90:GLN:HA	1.73	0.68
24:BA:447:A:OP1	41:BT:5:LYS:NZ	2.26	0.68
42:BU:14:VAL:HG21	42:BU:19:LYS:HG3	1.74	0.68
43:BV:64:MET:HG2	43:BV:109:GLU:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:21:PHE:HE2	44:BW:27:THR:H	1.40	0.68
45:BX:37:VAL:HG13	45:BX:39:VAL:HG23	1.75	0.68
45:BX:52:SER:HB3	45:BX:56:PRO:CB	2.22	0.68
46:BY:4:ARG:HG3	46:BY:44:PHE:CE1	2.28	0.68
46:BY:78:LYS:H	46:BY:78:LYS:CE	2.07	0.68
32:BK:78:THR:HG22	32:BK:143:SER:OG	1.93	0.68
24:BA:2168:G:N2	24:BA:2171:A:N7	2.40	0.68
26:BC:131:LEU:HD13	26:BC:136:LEU:C	2.14	0.68
1:AA:1259:C:O5'	1:AA:1259:C:H6	1.77	0.68
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.27	0.68
1:AA:170:U:O2'	1:AA:171:A:H5'	1.92	0.68
1:AA:275:G:H5'	19:AT:14:LYS:HZ3	1.57	0.68
1:AA:483:C:H3'	1:AA:483:C:H6	1.59	0.68
1:AA:891:U:C5	1:AA:906:G:N2	2.61	0.68
1:AA:949:A:H2'	1:AA:950:U:C6	2.29	0.68
1:AA:964:A:O2'	12:AM:55:LYS:NZ	2.25	0.68
4:AE:165:VAL:HG23	4:AE:166:ASP:N	2.08	0.68
5:AF:84:ILE:HA	5:AF:101:LEU:HD11	1.74	0.68
6:AG:158:ILE:HG22	6:AG:162:LEU:CD1	2.22	0.68
6:AG:204:ILE:HD12	6:AG:204:ILE:N	2.08	0.68
1:AA:1374:A:OP1	9:AJ:36:LYS:HE2	1.94	0.68
10:AK:89:PRO:HA	10:AK:92:ARG:HH21	1.57	0.68
16:AQ:29:ARG:HB2	16:AQ:40:CYS:HB3	1.76	0.68
53:B6:5:TRP:CZ3	53:B6:12:ARG:NH1	2.62	0.68
54:B7:31:HIS:N	54:B7:34:TRP:NE1	2.36	0.68
55:B8:19:ARG:CD	55:B8:22:ARG:CB	2.71	0.68
24:BA:1137:G:O2'	34:BM:105:GLY:HA3	1.94	0.68
24:BA:1203:G:C6	24:BA:1241:A:C8	2.82	0.68
24:BA:1268:A:H62	24:BA:2012:G:N2	1.90	0.68
24:BA:1403:C:H4'	24:BA:1471:A:H4'	1.74	0.68
24:BA:1476:C:H5	24:BA:1477:A:C5	2.12	0.68
24:BA:1664:A:C8	24:BA:1665:A:N7	2.62	0.68
24:BA:175:G:N2	24:BA:176:G:H1'	2.08	0.68
24:BA:1805:U:H5''	27:BD:248:SER:OG	1.93	0.68
24:BA:2059:A:C6	24:BA:2503:A:N7	2.61	0.68
24:BA:196:A:N3	24:BA:2068:U:H5	1.92	0.68
24:BA:2249:U:O4	24:BA:2253:G:OP2	2.11	0.68
24:BA:2283:C:N3	24:BA:2284:C:H1'	2.09	0.68
24:BA:2419:U:OP1	54:B7:41:ILE:HD12	1.93	0.68
24:BA:783:A:C4'	24:BA:2588:G:O3'	2.35	0.68
24:BA:2597:G:H2'	24:BA:2598:A:H8	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:269:U:H2'	24:BA:269:U:O2	1.92	0.68
24:BA:288:C:O5'	24:BA:288:C:H6	1.77	0.68
24:BA:586:A:C2	24:BA:809:G:N2	2.60	0.68
24:BA:804:A:H62	36:BO:39:LYS:HZ1	1.40	0.68
24:BA:918:A:H2'	25:BB:80:U:O2'	1.92	0.68
24:BA:91:A:H2'	24:BA:92:G:O5'	1.93	0.68
25:BB:83:G:N2	25:BB:84:C:C2	2.62	0.68
27:BD:118:VAL:O	27:BD:129:ASN:HA	1.93	0.68
27:BD:84:TYR:CB	27:BD:91:ARG:HG3	2.23	0.68
27:BD:9:TYR:O	27:BD:10:THR:HB	1.93	0.68
28:BE:105:THR:HG22	28:BE:199:ARG:CZ	2.22	0.68
28:BE:133:LYS:HZ2	28:BE:137:HIS:CB	2.07	0.68
29:BF:14:PRO:O	29:BF:15:SER:HB2	1.92	0.68
29:BF:20:LEU:H	29:BF:20:LEU:CD2	2.07	0.68
29:BF:8:GLN:HB3	29:BF:18:ARG:HA	1.76	0.68
30:BG:39:ILE:HD13	30:BG:92:VAL:HG12	1.75	0.68
34:BM:69:GLN:OE1	34:BM:87:LEU:HD22	1.94	0.68
37:BP:19:GLY:O	37:BP:20:ALA:CB	2.41	0.68
39:BR:81:GLY:O	39:BR:83:LYS:N	2.26	0.68
40:BS:10:VAL:HG12	40:BS:14:TYR:OH	1.93	0.68
46:BY:100:VAL:O	46:BY:124:ILE:HG23	1.92	0.68
24:BA:2134:A:C8	24:BA:2136:C:N4	2.61	0.68
26:BC:133:PRO:C	26:BC:135:GLY:H	1.96	0.68
24:BA:2120:G:H21	26:BC:167:LYS:CE	2.07	0.68
26:BC:76:ALA:CB	26:BC:149:ILE:HD11	2.23	0.68
26:BC:82:LYS:HD3	26:BC:85:GLU:OE2	1.93	0.68
24:BA:1579:A:H2'	24:BA:1580:A:H5'	1.75	0.68
1:AA:1157:A:N3	1:AA:1157:A:H2'	2.07	0.68
1:AA:294:U:H2'	1:AA:294:U:O2	1.93	0.68
1:AA:51:A:C2	1:AA:116:A:H1'	2.28	0.68
1:AA:601:C:O2'	1:AA:602:A:H5'	1.93	0.68
3:AD:40:C:H5'	3:AD:41:G:OP2	1.92	0.68
5:AF:147:LYS:CB	5:AF:203:PHE:HD2	2.07	0.68
6:AG:194:LEU:HB3	6:AG:196:LEU:HD11	1.74	0.68
7:AH:60:TYR:HE1	7:AH:64:ARG:CZ	2.06	0.68
9:AJ:122:HIS:O	9:AJ:125:MET:HG3	1.93	0.68
10:AK:115:SER:C	10:AK:116:LYS:HD2	2.14	0.68
12:AM:23:ILE:HG23	12:AM:85:LEU:CD2	2.23	0.68
12:AM:9:ARG:HH11	12:AM:9:ARG:CB	2.06	0.68
1:AA:684:A:O2'	13:AN:39:PRO:O	2.10	0.68
18:AS:39:TYR:C	18:AS:39:TYR:CD1	2.65	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:986:A:H4'	21:AV:55:LYS:HG3	1.76	0.68
48:B1:14:VAL:HA	48:B1:17:GLU:OE1	1.92	0.68
48:B1:58:VAL:HG22	48:B1:59:LEU:H	1.57	0.68
51:B4:9:LYS:O	51:B4:10:LYS:HB2	1.94	0.68
54:B7:51:ALA:O	54:B7:54:GLU:OE1	2.12	0.68
24:BA:1077:A:N6	24:BA:1088:A:O2'	2.27	0.68
24:BA:1321:A:N1	24:BA:1322:A:H1'	2.08	0.68
24:BA:139:G:C2'	24:BA:140:A:O5'	2.41	0.68
24:BA:1557:C:C2'	24:BA:1558:A:H8	1.97	0.68
24:BA:1937:A:H2'	24:BA:1938:A:OP1	1.94	0.68
24:BA:1952:A:C5	24:BA:1953:A:C2	2.82	0.68
24:BA:2017:U:H1'	51:B4:8:LYS:O	1.93	0.68
24:BA:2273:A:C3'	24:BA:2274:A:H5'	2.23	0.68
24:BA:2619:C:H5''	28:BE:152:LYS:CA	2.23	0.68
24:BA:284:U:C6	24:BA:284:U:OP2	2.46	0.68
24:BA:2875:C:H5''	40:BS:3:ARG:HD3	1.75	0.68
24:BA:2895:U:H2'	24:BA:2896:C:C6	2.29	0.68
24:BA:28:A:N3	24:BA:29:U:O4'	2.26	0.68
24:BA:29:U:H2'	24:BA:30:G:N7	2.08	0.68
24:BA:775:G:C2'	24:BA:794:G:N7	2.51	0.68
24:BA:919:G:C2	24:BA:920:G:C8	2.81	0.68
24:BA:971:C:H2'	24:BA:972:G:O4'	1.94	0.68
27:BD:53:PHE:O	27:BD:54:ARG:O	2.12	0.68
29:BF:108:LYS:O	29:BF:111:ALA:HB3	1.94	0.68
31:BH:11:VAL:HB	31:BH:50:VAL:CG2	2.24	0.68
31:BH:60:ARG:HH21	31:BH:64:LEU:CD1	2.03	0.68
34:BM:116:LEU:O	34:BM:116:LEU:HG	1.92	0.68
34:BM:23:LEU:HG	34:BM:62:VAL:O	1.93	0.68
34:BM:37:LYS:NZ	34:BM:43:THR:CG2	2.55	0.68
34:BM:46:VAL:CG1	34:BM:119:ARG:NH2	2.54	0.68
35:BN:2:ILE:CD1	35:BN:32:TYR:HD1	2.05	0.68
37:BP:104:PHE:O	37:BP:105:GLU:CD	2.32	0.68
24:BA:1278:A:H5'	38:BQ:24:GLN:NE2	2.08	0.68
39:BR:49:VAL:HG21	39:BR:80:LEU:HG	1.75	0.68
40:BS:63:VAL:O	40:BS:63:VAL:HG13	1.92	0.68
42:BU:11:GLN:HE22	42:BU:24:LYS:NZ	1.92	0.68
42:BU:62:LEU:HD13	42:BU:98:GLU:HA	1.75	0.68
43:BV:11:ARG:O	43:BV:98:LYS:HE3	1.93	0.68
44:BW:26:TYR:HE1	44:BW:83:VAL:CG1	2.05	0.68
3:AD:18:G:N2	3:AD:57:G:H2'	2.09	0.68
24:BA:2180:U:H2'	24:BA:2181:G:C8	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:34:THR:HG23	26:BC:38:ASP:HA	1.74	0.68
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.59	0.68
1:AA:1124:G:N1	1:AA:1147:C:N4	2.42	0.68
1:AA:1271:G:O2'	1:AA:1272:G:H5'	1.94	0.68
1:AA:236:G:C3'	1:AA:237:C:H6	2.07	0.68
1:AA:520:A:N7	1:AA:521:G:C8	2.62	0.68
1:AA:578:C:N4	1:AA:579:G:O6	2.25	0.68
1:AA:764:C:H3'	1:AA:765:G:C8	2.28	0.68
1:AA:955:U:C2	1:AA:956:U:H5	2.11	0.68
5:AF:56:ASP:O	5:AF:66:VAL:HA	1.93	0.68
6:AG:133:VAL:CG1	6:AG:135:LEU:HG	2.23	0.68
7:AH:109:ILE:HG22	7:AH:110:LEU:HD23	1.74	0.68
8:AI:77:ARG:N	8:AI:80:ARG:HE	1.92	0.68
9:AJ:72:ARG:HH22	9:AJ:138:LYS:HZ3	1.42	0.68
10:AK:29:SER:CB	10:AK:32:LYS:HZ3	2.07	0.68
13:AN:71:LYS:O	13:AN:74:ALA:N	2.27	0.68
15:AP:19:LEU:HD12	15:AP:20:THR:H	1.58	0.68
15:AP:15:VAL:HG11	15:AP:39:ILE:HD12	1.74	0.68
18:AS:32:TYR:HD1	18:AS:32:TYR:N	1.92	0.68
50:B3:37:SER:OG	50:B3:38:LYS:N	2.26	0.68
52:B5:28:ARG:O	52:B5:29:ASN:O	2.12	0.68
24:BA:1123:C:H2'	24:BA:1124:C:C6	2.29	0.68
24:BA:1527:G:C3'	24:BA:1527:G:C8	2.76	0.68
24:BA:151:C:H2'	24:BA:152:G:C8	2.29	0.68
24:BA:141:A:C6	24:BA:1596:A:O2'	2.47	0.68
24:BA:1340:U:O2	24:BA:1603:A:C8	2.47	0.68
24:BA:1646:C:C3'	24:BA:1647:G:H5'	2.23	0.68
24:BA:1668:A:N1	24:BA:1993:U:C1'	2.50	0.68
24:BA:2300:G:O2'	24:BA:2301:C:H5'	1.93	0.68
24:BA:2383:G:OP2	54:B7:39:LYS:NZ	2.25	0.68
24:BA:2392:A:C2'	24:BA:2393:A:H5'	2.23	0.68
24:BA:2394:C:O2	24:BA:2394:C:C2'	2.42	0.68
24:BA:106:C:O2'	24:BA:294:A:H5'	1.94	0.68
24:BA:270:A:N1	24:BA:370:G:H1'	2.08	0.68
24:BA:491:G:H2'	24:BA:492:A:C8	2.27	0.68
24:BA:627:A:H3'	36:BO:75:ILE:HG13	1.76	0.68
24:BA:715:G:H3'	24:BA:715:G:C8	2.29	0.68
24:BA:751:A:H62	24:BA:789:A:H62	1.39	0.68
24:BA:796:C:H2'	24:BA:797:C:H6	1.58	0.68
24:BA:854:G:N2	24:BA:855:G:C4	2.61	0.68
24:BA:997:G:C8	24:BA:997:G:OP2	2.47	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:24:G:H2'	25:BB:56:G:O6	1.94	0.68
28:BE:26:ILE:HB	28:BE:181:LEU:CD2	2.23	0.68
31:BH:53:GLU:CD	31:BH:53:GLU:N	2.47	0.68
31:BH:98:LEU:HG	31:BH:123:PHE:CB	2.23	0.68
36:BO:128:HIS:CA	36:BO:147:LEU:HD21	2.24	0.68
24:BA:832:G:OP2	36:BO:35:HIS:CG	2.45	0.68
43:BV:65:LEU:O	43:BV:69:LEU:HD13	1.93	0.68
45:BX:74:PRO:CG	45:BX:100:ALA:HB3	2.24	0.68
45:BX:97:ARG:CG	45:BX:101:LYS:HG2	2.24	0.68
45:BX:1:MET:HA	45:BX:33:LYS:HG3	1.75	0.68
26:BC:30:LYS:HZ1	26:BC:182:PRO:CD	2.02	0.68
32:BK:57:ARG:HB3	32:BK:61:ARG:CZ	2.22	0.68
1:AA:1451:A:H5''	1:AA:1452:C:H5	1.58	0.68
1:AA:1378:C:O2	1:AA:1378:C:C2'	2.42	0.68
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.58	0.68
1:AA:230:G:N2	1:AA:231:G:H1'	2.09	0.68
1:AA:244:U:HO2'	1:AA:245:C:P	2.15	0.68
1:AA:283:C:N3	1:AA:284:G:C8	2.62	0.68
1:AA:464:G:N2	1:AA:474:G:O6	2.27	0.68
1:AA:50:A:O2'	1:AA:360:A:H2	1.77	0.68
1:AA:522:C:N4	1:AA:523:A:N6	2.42	0.68
1:AA:577:G:N2	1:AA:578:C:H1'	2.09	0.68
1:AA:885:G:N3	1:AA:914:A:H2	1.92	0.68
4:AE:28:PHE:HE1	4:AE:31:TYR:HB3	1.58	0.68
4:AE:35:GLU:HG2	4:AE:39:ILE:C	2.14	0.68
6:AG:172:PRO:HG3	6:AG:193:ASP:CB	2.24	0.68
7:AH:118:ILE:HG22	7:AH:119:LEU:H	1.58	0.68
8:AI:76:ALA:HB1	8:AI:80:ARG:CZ	2.23	0.68
11:AL:4:TYR:HB3	11:AL:87:GLN:HB2	1.76	0.68
1:AA:728:A:H8	17:AR:54:ARG:CZ	2.07	0.68
18:AS:14:ASN:OD1	18:AS:16:HIS:CE1	2.47	0.68
18:AS:3:LYS:HB3	18:AS:3:LYS:NZ	2.09	0.68
1:AA:663:A:O3'	20:AU:64:ARG:NH2	2.26	0.68
20:AU:76:LEU:CD2	20:AU:76:LEU:H	2.05	0.68
22:AW:73:HIS:O	22:AW:74:LYS:C	2.31	0.68
23:AX:12:LYS:HB3	23:AX:22:ARG:NH1	2.09	0.68
49:B2:37:LEU:CD2	49:B2:37:LEU:O	2.42	0.68
52:B5:20:ASN:ND2	52:B5:42:TRP:HD1	1.91	0.68
24:BA:1029:A:C2'	24:BA:1030:G:H5'	2.23	0.68
24:BA:1019:U:C2	24:BA:1144:G:N2	2.62	0.68
24:BA:1463:C:O2'	24:BA:1464:C:H5'	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1551:C:H2'	24:BA:1552:G:C8	2.29	0.68
24:BA:1614:A:N3	24:BA:1614:A:H3'	2.09	0.68
24:BA:1794:U:C2	24:BA:1795:C:C5	2.82	0.68
24:BA:2027:G:H2'	24:BA:2028:U:O4'	1.93	0.68
24:BA:2286:A:C4'	24:BA:2287:A:H1'	2.14	0.68
24:BA:2326:C:N3	24:BA:2389:G:O6	2.27	0.68
24:BA:2349:G:C3'	24:BA:2350:C:H5''	2.22	0.68
24:BA:325:G:H2'	24:BA:326:G:H8	1.57	0.68
24:BA:670:A:H2'	36:BO:41:ARG:HH11	1.58	0.68
24:BA:675:A:H2'	24:BA:676:A:C2	2.28	0.68
24:BA:682:G:O2'	24:BA:683:C:H5'	1.93	0.68
24:BA:816:C:H5'	24:BA:816:C:H6	1.59	0.68
24:BA:90:U:O2'	24:BA:91:A:H8	1.70	0.68
27:BD:76:PRO:HB3	27:BD:118:VAL:CG2	2.23	0.68
27:BD:142:VAL:HG12	27:BD:193:VAL:HA	1.76	0.68
27:BD:262:ARG:C	27:BD:264:LYS:H	1.94	0.68
29:BF:158:THR:HG21	29:BF:196:LEU:HB2	1.76	0.68
29:BF:200:GLU:O	29:BF:204:ASN:OD1	2.11	0.68
29:BF:38:ARG:HH12	36:BO:10:PRO:CA	2.07	0.68
30:BG:57:ALA:CA	30:BG:68:PRO:HD2	2.19	0.68
32:BK:3:VAL:O	32:BK:18:VAL:HG13	1.93	0.68
33:BL:78:ILE:HG23	33:BL:79:ARG:N	2.06	0.68
34:BM:115:ARG:O	34:BM:118:LYS:HB2	1.93	0.68
34:BM:113:GLY:O	34:BM:116:LEU:HB3	1.93	0.68
34:BM:16:ILE:HD13	34:BM:52:VAL:HG23	1.75	0.68
34:BM:43:THR:CB	34:BM:44:PRO:HD2	2.24	0.68
34:BM:69:GLN:OE1	34:BM:87:LEU:HD13	1.92	0.68
35:BN:97:ARG:HA	35:BN:97:ARG:NE	2.08	0.68
36:BO:135:LEU:HA	36:BO:138:LEU:HD12	1.74	0.68
39:BR:19:LYS:O	39:BR:20:ARG:C	2.32	0.68
40:BS:46:GLU:OE1	40:BS:47:GLY:N	2.25	0.68
40:BS:50:ILE:HD12	40:BS:66:VAL:HB	1.76	0.68
41:BT:92:ARG:C	41:BT:94:ASN:H	1.96	0.68
42:BU:15:GLU:OE1	42:BU:16:PRO:HD3	1.93	0.68
42:BU:69:LYS:HE2	42:BU:70:ILE:HD12	1.75	0.68
24:BA:2009:G:OP1	43:BV:41:LYS:HD2	1.92	0.68
47:BZ:19:LYS:HZ3	47:BZ:41:ARG:NE	1.89	0.68
32:BK:123:LEU:HD12	32:BK:124:GLY:H	1.59	0.68
26:BC:26:ALA:HB1	26:BC:185:LEU:HB2	1.75	0.68
26:BC:77:ILE:HA	26:BC:95:GLY:O	1.94	0.68
26:BC:6:ARG:C	26:BC:8:ARG:H	1.97	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2195:C:H2'	24:BA:2196:C:H6	1.58	0.68
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.28	0.68
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.11	0.68
1:AA:1392:G:O2'	1:AA:1393:U:H5'	1.94	0.68
1:AA:273:A:C2	1:AA:274:A:H1'	2.29	0.68
1:AA:509:A:H5'	6:AG:54:TYR:HD2	1.57	0.68
2:AC:75:C:H5	24:BA:2451:A:O2'	1.75	0.68
4:AE:31:TYR:HE2	4:AE:200:ILE:HG21	1.55	0.68
5:AF:150:LYS:HA	5:AF:169:ALA:HB1	1.75	0.68
7:AH:105:VAL:HG12	7:AH:106:PRO:HD3	1.75	0.68
7:AH:50:GLU:HB2	7:AH:53:LEU:CD2	2.24	0.68
7:AH:50:GLU:HB2	7:AH:53:LEU:HG	1.74	0.68
8:AI:33:TYR:CG	8:AI:75:LEU:HG	2.29	0.68
8:AI:50:TYR:CZ	20:AU:77:GLY:HA2	2.28	0.68
8:AI:85:VAL:CG1	8:AI:88:VAL:HG23	2.24	0.68
11:AL:110:GLU:O	11:AL:111:ARG:HB2	1.92	0.68
11:AL:47:LEU:HD21	11:AL:50:LEU:CD1	2.23	0.68
14:AO:41:ARG:CG	14:AO:42:THR:N	2.56	0.68
16:AQ:22:THR:O	16:AQ:23:ARG:HG2	1.93	0.68
19:AT:33:GLY:O	19:AT:34:LYS:O	2.11	0.68
19:AT:67:LYS:HA	19:AT:70:ARG:HH12	1.58	0.68
20:AU:81:PHE:O	20:AU:82:THR:HG22	1.94	0.68
49:B2:13:ILE:CG2	49:B2:14:GLY:H	1.92	0.68
49:B2:8:LEU:HA	49:B2:54:VAL:HG23	1.76	0.68
53:B6:43:THR:HA	53:B6:46:VAL:HB	1.74	0.68
55:B8:25:VAL:CB	55:B8:34:GLN:HB2	2.17	0.68
24:BA:1026:U:C2'	24:BA:1026:U:O2	2.40	0.68
24:BA:1299:G:C5'	24:BA:1301:A:H1'	2.23	0.68
24:BA:1476:C:C5	24:BA:1477:A:C5	2.81	0.68
24:BA:1513:C:C2	24:BA:1514:U:O4	2.46	0.68
24:BA:1551:C:H2'	24:BA:1552:G:H8	1.59	0.68
24:BA:1566:A:C6	27:BD:215:LEU:HD13	2.28	0.68
24:BA:1646:C:H5''	24:BA:1647:G:H5'	1.76	0.68
24:BA:1918:A:H5''	24:BA:1919:A:H62	1.58	0.68
24:BA:2710:C:H2'	24:BA:2711:A:O4'	1.94	0.68
24:BA:2748:A:N7	24:BA:2749:A:N6	2.42	0.68
24:BA:307:G:H22	24:BA:310:A:C5'	2.07	0.68
24:BA:590:A:H2'	24:BA:591:C:O4'	1.94	0.68
24:BA:612:G:C4'	24:BA:616:A:H61	1.99	0.68
24:BA:64:A:C5'	44:BW:73:ARG:HA	2.24	0.68
24:BA:669:G:N7	29:BF:54:ARG:NH1	2.34	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:676:A:H2'	24:BA:677:A:C5'	2.22	0.68
24:BA:72:U:C2'	24:BA:73:A:OP1	2.42	0.68
24:BA:945:A:H2'	24:BA:946:G:O5'	1.94	0.68
24:BA:2597:G:C1'	27:BD:242:ARG:HH21	2.06	0.68
27:BD:46:GLN:HE22	27:BD:51:VAL:CG2	2.06	0.68
27:BD:56:GLY:HA3	27:BD:58:HIS:CE1	2.28	0.68
28:BE:17:ASP:O	28:BE:18:ASP:O	2.12	0.68
29:BF:135:LYS:HB3	29:BF:138:GLU:OE1	1.94	0.68
29:BF:5:ALA:HB1	29:BF:24:LEU:HG	1.74	0.68
30:BG:55:LYS:HG3	30:BG:148:MET:HB3	1.74	0.68
31:BH:88:LEU:HD21	31:BH:129:THR:HG22	1.75	0.68
33:BL:20:ALA:HB3	33:BL:21:PRO:CD	2.24	0.68
35:BN:16:ALA:C	35:BN:18:LYS:H	1.95	0.68
38:BQ:33:ARG:HA	38:BQ:115:GLU:CB	2.24	0.68
39:BR:13:ARG:NH2	39:BR:92:TYR:N	2.42	0.68
39:BR:67:ARG:HH21	39:BR:67:ARG:HG2	1.59	0.68
39:BR:24:LEU:H	39:BR:86:ALA:CB	2.07	0.68
40:BS:50:ILE:HD12	40:BS:66:VAL:CG2	2.23	0.68
42:BU:89:GLN:HG2	42:BU:91:TYR:CD1	2.28	0.68
43:BV:13:SER:O	43:BV:17:VAL:HG22	1.92	0.68
44:BW:73:ARG:HH12	44:BW:74:PRO:C	1.97	0.68
45:BX:12:THR:OG1	45:BX:72:VAL:HA	1.94	0.68
46:BY:45:ASP:CA	46:BY:48:PHE:HD1	2.06	0.68
47:BZ:36:ILE:CD1	47:BZ:39:ARG:HG3	2.22	0.68
3:AD:54:U:OP2	3:AD:55:U:C4	2.47	0.68
24:BA:2110:G:H5'	24:BA:2111:C:OP2	1.94	0.68
1:AA:11:G:N2	1:AA:24:U:N1	2.42	0.68
1:AA:1321:C:H6	1:AA:1321:C:O5'	1.74	0.68
1:AA:111:G:N1	1:AA:331:G:O6	2.18	0.68
1:AA:50:A:O2'	1:AA:52:G:N7	2.27	0.68
1:AA:55:A:O2'	1:AA:56:U:H5'	1.92	0.68
1:AA:607:A:C2'	1:AA:608:A:H5'	2.24	0.68
4:AE:145:LEU:O	4:AE:149:LEU:HB2	1.94	0.68
4:AE:33:TYR:CD2	4:AE:43:ASP:HA	2.29	0.68
4:AE:77:ALA:O	4:AE:80:ILE:N	2.26	0.68
5:AF:132:ARG:O	5:AF:135:LYS:HB2	1.94	0.68
5:AF:190:ARG:HB3	5:AF:190:ARG:NH1	2.09	0.68
9:AJ:54:THR:OG1	9:AJ:56:GLN:HG2	1.93	0.68
11:AL:112:LYS:HG3	11:AL:117:HIS:HA	1.76	0.68
11:AL:50:LEU:HD23	11:AL:50:LEU:C	2.14	0.68
1:AA:468:A:P	18:AS:75:ARG:HH22	2.16	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:191:G:H1'	22:AW:105:SER:HA	1.76	0.68
24:BA:1097:U:H2'	24:BA:1098:A:O4'	1.94	0.68
24:BA:1258:C:H2'	24:BA:1259:G:C8	2.28	0.68
24:BA:1638:C:H6	24:BA:1638:C:O5'	1.75	0.68
24:BA:1653:G:H5'	24:BA:1654:A:OP1	1.94	0.68
24:BA:1675:C:O2	24:BA:1675:C:H2'	1.94	0.68
24:BA:2286:A:C8	52:B5:31:PRO:HB2	2.28	0.68
24:BA:2392:A:O2'	24:BA:2393:A:H5'	1.93	0.68
24:BA:568:U:N3	24:BA:571:A:OP2	2.26	0.68
24:BA:665:C:H2'	24:BA:666:G:H8	1.58	0.68
24:BA:712:G:C4	24:BA:713:G:N7	2.62	0.68
24:BA:895:U:H6	24:BA:895:U:O5'	1.75	0.68
27:BD:208:LYS:HZ1	27:BD:211:ARG:NE	1.92	0.68
27:BD:33:LEU:CD1	27:BD:61:LEU:HD11	2.12	0.68
29:BF:192:LEU:HD22	29:BF:193:VAL:H	1.56	0.68
30:BG:174:GLU:HA	30:BG:179:PRO:HB3	1.74	0.68
31:BH:26:VAL:HG13	31:BH:76:VAL:CG1	2.24	0.68
31:BH:30:LYS:HD3	31:BH:31:GLY:N	2.09	0.68
33:BL:88:ALA:CB	33:BL:135:GLY:HA3	2.23	0.68
33:BL:45:THR:HB	33:BL:53:VAL:HG11	1.74	0.68
34:BM:17:ASP:O	34:BM:55:VAL:O	2.12	0.68
34:BM:5:VAL:HB	34:BM:6:PRO:HD2	1.75	0.68
34:BM:21:LYS:O	34:BM:60:ILE:HG23	1.93	0.68
36:BO:130:PHE:N	36:BO:130:PHE:HD2	1.92	0.68
24:BA:637:A:OP2	36:BO:131:SER:HB3	1.94	0.68
36:BO:135:LEU:O	36:BO:138:LEU:CB	2.41	0.68
36:BO:92:GLU:O	36:BO:96:THR:HG23	1.94	0.68
37:BP:19:GLY:O	37:BP:20:ALA:HB3	1.94	0.68
38:BQ:86:ARG:NH1	38:BQ:86:ARG:HB3	2.08	0.68
39:BR:44:LYS:HB2	39:BR:46:VAL:CG1	2.22	0.68
1:AA:1464:G:OP1	40:BS:112:ARG:CZ	2.42	0.68
40:BS:32:TYR:O	40:BS:47:GLY:CA	2.27	0.68
40:BS:34:VAL:HG23	40:BS:36:GLU:HB2	1.76	0.68
40:BS:7:ILE:O	40:BS:8:LYS:C	2.33	0.68
41:BT:99:ALA:N	41:BT:106:PHE:CD1	2.62	0.68
46:BY:10:ARG:HG3	46:BY:38:TYR:OH	1.94	0.68
46:BY:167:PRO:O	46:BY:168:GLU:HB2	1.92	0.68
3:AD:15:G:H1	3:AD:48:C:N4	1.83	0.68
26:BC:41:VAL:HG12	26:BC:42:GLU:N	2.09	0.68
26:BC:75:LEU:HD22	26:BC:110:PHE:CE2	2.29	0.68
1:AA:1004:A:H8	1:AA:1036:G:O6	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:113:G:C1'	1:AA:354:G:H5''	2.24	0.68
1:AA:1210:C:C4'	1:AA:1214:C:H42	2.07	0.68
1:AA:1372:U:H2'	1:AA:1373:G:H8	1.58	0.68
1:AA:321:A:H2'	1:AA:322:C:C6	2.29	0.68
1:AA:55:A:C2	1:AA:56:U:H1'	2.29	0.68
1:AA:707:C:O2'	1:AA:708:C:H5'	1.94	0.68
1:AA:843:U:H3	4:AE:37:ASN:HD22	1.42	0.68
1:AA:920:U:H2'	1:AA:921:U:H6	1.58	0.68
4:AE:158:LEU:N	4:AE:158:LEU:HD23	2.09	0.68
8:AI:52:ILE:HD13	8:AI:87:ARG:NH2	2.08	0.68
8:AI:60:PHE:CE2	20:AU:78:LEU:HD11	2.29	0.68
9:AJ:129:GLU:OE1	9:AJ:131:LYS:HG2	1.93	0.68
10:AK:84:ARG:HH11	10:AK:84:ARG:HB3	1.57	0.68
14:AO:25:PRO:C	14:AO:27:LEU:N	2.48	0.68
15:AP:14:ARG:HG2	15:AP:44:ARG:NH1	2.08	0.68
1:AA:667:G:H4'	17:AR:51:HIS:ND1	2.09	0.68
20:AU:55:ARG:HH11	20:AU:55:ARG:CB	1.96	0.68
49:B2:6:VAL:HB	49:B2:35:ARG:CZ	2.24	0.68
50:B3:57:GLU:CA	50:B3:61:ARG:CZ	2.72	0.68
53:B6:33:ARG:HG2	53:B6:34:ARG:N	2.08	0.68
24:BA:1225:C:H5'	42:BU:87:HIS:ND1	2.09	0.68
24:BA:1278:A:H5''	38:BQ:36:THR:HG22	1.76	0.68
24:BA:1407:C:OP2	24:BA:1407:C:C6	2.47	0.68
24:BA:140:A:C2	24:BA:1408:C:H1'	2.27	0.68
24:BA:145:G:C6	24:BA:146:G:C6	2.81	0.68
24:BA:1936:A:H1'	24:BA:1940:U:C4	2.28	0.68
24:BA:2026:C:O2'	24:BA:2027:G:H5'	1.94	0.68
24:BA:2571:C:O2'	28:BE:146:THR:CA	2.40	0.68
24:BA:2675:A:OP1	35:BN:32:TYR:HE2	1.75	0.68
24:BA:2799:A:O2'	24:BA:2802:G:C5	2.46	0.68
24:BA:2826:A:C5	24:BA:2827:C:C5	2.82	0.68
24:BA:2895:U:H2'	24:BA:2896:C:H6	1.58	0.68
24:BA:298:G:N1	24:BA:338:G:O2'	2.27	0.68
24:BA:389:G:O6	36:BO:64:LYS:CG	2.41	0.68
24:BA:765:G:C6	24:BA:766:C:C4	2.82	0.68
24:BA:778:G:C6	24:BA:779:U:N3	2.62	0.68
24:BA:848:G:N2	24:BA:931:G:N7	2.42	0.68
24:BA:860:U:C3'	24:BA:860:U:C6	2.68	0.68
24:BA:972:G:N7	24:BA:973:A:C8	2.62	0.68
25:BB:51:G:OP1	39:BR:61:ASN:HA	1.94	0.68
27:BD:28:GLU:O	27:BD:30:GLU:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:63:ARG:HG2	27:BD:64:ILE:O	1.94	0.68
31:BH:51:ARG:NE	31:BH:51:ARG:HA	2.08	0.68
32:BK:31:LEU:CD1	32:BK:36:ALA:HB3	2.23	0.68
34:BM:99:LEU:O	34:BM:103:VAL:HG13	1.93	0.68
34:BM:23:LEU:HD23	34:BM:60:ILE:CG2	2.24	0.68
36:BO:131:SER:OG	36:BO:134:ALA:HB2	1.94	0.68
37:BP:25:ASP:CB	37:BP:101:ARG:HB3	2.24	0.68
38:BQ:76:VAL:HG12	38:BQ:77:ARG:N	2.07	0.68
40:BS:66:VAL:HG23	40:BS:76:PHE:O	1.93	0.68
45:BX:19:LYS:HG2	45:BX:39:VAL:HG12	1.76	0.68
45:BX:1:MET:HA	45:BX:33:LYS:HE3	1.76	0.68
46:BY:122:ARG:HG3	46:BY:171:ILE:HA	1.75	0.68
26:BC:100:ILE:HD11	26:BC:123:VAL:CG2	2.22	0.68
36:BO:148:LEU:HD22	36:BO:149:GLU:O	1.94	0.68
1:AA:1285:A:O4'	1:AA:1286:A:N7	2.27	0.67
1:AA:586:C:OP1	19:AT:34:LYS:CE	2.42	0.67
1:AA:659:U:H2'	1:AA:660:G:H8	1.57	0.67
3:AD:75:C:H5''	3:AD:76:A:O3'	1.93	0.67
4:AE:163:PHE:CE2	4:AE:186:ALA:HA	2.29	0.67
5:AF:11:ARG:HD2	5:AF:16:ARG:NH2	2.05	0.67
6:AG:3:ARG:HH21	6:AG:71:SER:HB3	1.58	0.67
7:AH:59:GLY:C	7:AH:63:ARG:HH21	1.98	0.67
8:AI:96:PRO:O	8:AI:97:PHE:HB2	1.94	0.67
9:AJ:85:TYR:N	9:AJ:85:TYR:HD2	1.92	0.67
10:AK:135:CYS:SG	10:AK:136:GLU:N	2.66	0.67
10:AK:29:SER:N	10:AK:32:LYS:NZ	2.39	0.67
11:AL:50:LEU:HD21	11:AL:55:ALA:C	2.15	0.67
11:AL:114:TYR:HD1	12:AM:60:ARG:HH22	1.42	0.67
13:AN:63:LEU:O	13:AN:63:LEU:HD23	1.93	0.67
16:AQ:42:ILE:O	16:AQ:43:CYS:C	2.31	0.67
19:AT:4:LYS:O	19:AT:5:VAL:CG2	2.42	0.67
50:B3:57:GLU:O	50:B3:61:ARG:HG3	1.94	0.67
50:B3:59:PHE:HD1	50:B3:60:GLN:H	1.42	0.67
50:B3:42:PHE:C	50:B3:61:ARG:HH12	1.97	0.67
50:B3:59:PHE:HA	50:B3:62:ARG:CZ	2.23	0.67
51:B4:40:LYS:HZ1	51:B4:43:HIS:HA	1.56	0.67
24:BA:2286:A:N6	52:B5:28:ARG:O	2.27	0.67
24:BA:458:G:C8	53:B6:39:ARG:HB2	2.29	0.67
55:B8:19:ARG:CD	55:B8:22:ARG:HB3	2.23	0.67
24:BA:1042:G:N2	24:BA:1114:G:N3	2.42	0.67
24:BA:1050:A:H2'	24:BA:1051:G:O4'	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1207:C:OP2	24:BA:1207:C:H6	1.76	0.67
24:BA:1238:G:C2'	24:BA:1239:G:H5'	2.22	0.67
24:BA:1255:U:H5''	24:BA:1256:G:C5'	2.22	0.67
24:BA:1535:U:H2'	24:BA:1536:A:C4'	2.24	0.67
24:BA:1616:A:H5''	24:BA:1617:C:OP1	1.93	0.67
24:BA:18:C:OP1	41:BT:26:GLY:CA	2.39	0.67
24:BA:2012:G:OP1	43:BV:98:LYS:HG2	1.93	0.67
24:BA:2205:C:H2'	24:BA:2206:C:H5'	1.75	0.67
24:BA:2303:G:C6	24:BA:2304:G:N7	2.62	0.67
24:BA:2327:A:C2'	24:BA:2328:A:C8	2.74	0.67
24:BA:2329:G:N2	47:BZ:41:ARG:HH22	1.91	0.67
24:BA:2392:A:H1'	36:BO:55:ARG:NH2	2.09	0.67
24:BA:2407:G:N2	24:BA:2408:U:O4'	2.27	0.67
24:BA:1710:C:C1'	24:BA:2858:C:H42	2.06	0.67
24:BA:607:U:H2'	24:BA:607:U:O2	1.92	0.67
24:BA:627:A:H8	24:BA:636:G:H21	1.40	0.67
24:BA:72:U:H2'	24:BA:73:A:OP1	1.95	0.67
25:BB:60:C:H2'	25:BB:61:G:H8	1.58	0.67
27:BD:146:GLU:CA	27:BD:154:LYS:HG2	2.24	0.67
24:BA:2209:C:H1'	27:BD:150:LYS:CE	2.24	0.67
24:BA:1792:G:OP1	27:BD:206:LEU:CD2	2.42	0.67
27:BD:69:ARG:HH22	27:BD:130:ALA:HB2	1.57	0.67
30:BG:22:ARG:HH21	30:BG:22:ARG:HB3	1.58	0.67
30:BG:54:GLU:OE1	30:BG:69:ALA:O	2.12	0.67
30:BG:39:ILE:HD12	30:BG:92:VAL:O	1.94	0.67
31:BH:111:HIS:O	31:BH:113:VAL:N	2.27	0.67
31:BH:26:VAL:HG11	31:BH:76:VAL:N	2.10	0.67
34:BM:90:MET:CE	34:BM:98:VAL:HG13	2.24	0.67
35:BN:3:GLN:HG2	35:BN:6:THR:OG1	1.94	0.67
37:BP:101:ARG:HH11	37:BP:101:ARG:CG	2.07	0.67
38:BQ:10:LEU:HD22	38:BQ:21:TYR:OH	1.94	0.67
40:BS:19:LEU:O	40:BS:21:GLU:N	2.27	0.67
40:BS:63:VAL:O	40:BS:63:VAL:CG1	2.42	0.67
40:BS:96:ARG:HG2	40:BS:117:ASP:CB	2.13	0.67
42:BU:6:LYS:HZ2	42:BU:10:LYS:CD	2.07	0.67
43:BV:72:LYS:HB2	43:BV:108:GLY:HA3	1.77	0.67
45:BX:44:ILE:CG2	45:BX:46:LYS:HG3	2.24	0.67
47:BZ:17:GLN:CD	47:BZ:18:ALA:H	1.96	0.67
47:BZ:47:PRO:HG2	47:BZ:53:MET:CB	2.18	0.67
24:BA:2112:G:N2	24:BA:2113:U:N3	2.42	0.67
26:BC:209:LEU:HD21	26:BC:212:VAL:CG2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1581:G:C2'	24:BA:1582:C:H5'	2.24	0.67
1:AA:386:C:C2'	1:AA:387:U:H5'	2.24	0.67
1:AA:1065:U:H2'	1:AA:1065:U:O2	1.94	0.67
1:AA:1531:A:H5'	1:AA:1532:U:OP2	1.94	0.67
1:AA:195:A:O5'	22:AW:68:LYS:NZ	2.27	0.67
1:AA:579:G:HO2'	1:AA:580:U:H5'	1.57	0.67
2:AC:19:G:H3'	2:AC:20:U:C4	2.30	0.67
5:AF:126:ARG:O	5:AF:127:ARG:HB2	1.93	0.67
5:AF:156:ARG:HB3	5:AF:193:TYR:HD1	1.59	0.67
6:AG:108:LEU:O	6:AG:110:PHE:N	2.27	0.67
6:AG:127:THR:C	6:AG:146:ILE:HG22	2.13	0.67
14:AO:82:VAL:O	14:AO:83:VAL:HB	1.93	0.67
15:AP:22:ILE:HB	15:AP:25:ILE:CD1	2.23	0.67
15:AP:22:ILE:HB	15:AP:25:ILE:CG1	2.23	0.67
22:AW:43:LEU:HD22	22:AW:51:GLU:HG3	1.76	0.67
48:B1:45:ILE:CG1	48:B1:46:ARG:H	2.05	0.67
49:B2:38:GLU:N	49:B2:38:GLU:OE1	2.27	0.67
24:BA:400:G:C6	50:B3:63:TYR:HE2	2.13	0.67
24:BA:2286:A:N6	52:B5:28:ARG:C	2.47	0.67
52:B5:33:LYS:HZ2	52:B5:34:LEU:HD23	1.59	0.67
55:B8:9:ARG:C	55:B8:10:ILE:HG13	2.13	0.67
24:BA:1085:A:HO2'	24:BA:1086:A:C1'	2.08	0.67
24:BA:1166:C:O2	24:BA:1184:G:N2	2.27	0.67
24:BA:1223:C:C2	24:BA:1227:A:N1	2.63	0.67
24:BA:1545(A):A:OP2	24:BA:1546:C:C5	2.47	0.67
24:BA:1658:C:OP1	28:BE:134:ILE:HB	1.93	0.67
24:BA:1847:A:O2'	24:BA:1848:A:C8	2.47	0.67
24:BA:1914:C:C4	24:BA:1915:U:C5	2.76	0.67
24:BA:1926:U:O2	24:BA:1928:A:H5''	1.94	0.67
24:BA:1993:U:C6	24:BA:1993:U:H3'	2.29	0.67
24:BA:2269:A:C2	24:BA:2270:G:C1'	2.76	0.67
24:BA:2273:A:N7	24:BA:2274:A:C4	2.62	0.67
24:BA:2371:G:H4'	52:B5:46:HIS:HB3	1.76	0.67
24:BA:2476:A:N7	24:BA:2477:C:C5	2.62	0.67
24:BA:2481:G:O2'	24:BA:2482:G:H8	1.75	0.67
24:BA:2497:A:H3'	24:BA:2497:A:H8	1.56	0.67
24:BA:2573:C:OP1	24:BA:2574:G:OP1	2.12	0.67
24:BA:2681:C:H42	24:BA:2725:A:N6	1.91	0.67
24:BA:267:C:H2'	24:BA:268:C:O4'	1.94	0.67
24:BA:2695:C:H2'	24:BA:2696:U:C6	2.28	0.67
24:BA:1033:U:C4	24:BA:2750:A:N3	2.62	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2812:G:H2'	24:BA:2813:A:H8	1.59	0.67
24:BA:319:C:H2'	24:BA:320:A:H8	1.58	0.67
24:BA:360:G:C2'	24:BA:361:G:H5'	2.24	0.67
24:BA:76:C:C6	24:BA:76:C:O5'	2.47	0.67
24:BA:931:G:H3'	24:BA:932:G:O4'	1.94	0.67
24:BA:946:G:C6	24:BA:972:G:N2	2.61	0.67
24:BA:997:G:C2	24:BA:998:C:C5	2.82	0.67
27:BD:172:TYR:HB3	27:BD:184:LYS:HB3	1.75	0.67
28:BE:54:GLN:HB3	28:BE:57:LYS:NZ	2.09	0.67
24:BA:618:G:OP1	29:BF:106:ARG:HD2	1.94	0.67
30:BG:26:GLN:HB3	30:BG:31:VAL:CG2	2.24	0.67
24:BA:2312:U:O2'	30:BG:40:ASN:OD1	2.03	0.67
30:BG:47:LYS:HD2	30:BG:48:GLU:N	2.09	0.67
33:BL:76:TYR:O	33:BL:80:LYS:HD3	1.93	0.67
37:BP:45:GLN:OE1	37:BP:45:GLN:N	2.27	0.67
37:BP:74:TYR:CZ	37:BP:94:VAL:HG22	2.28	0.67
38:BQ:115:GLU:HG2	38:BQ:116:LEU:O	1.94	0.67
40:BS:64:ARG:CD	40:BS:65:LYS:H	1.91	0.67
42:BU:40:LEU:HD21	42:BU:55:ALA:CB	2.18	0.67
43:BV:21:VAL:HG11	43:BV:75:TYR:HA	1.75	0.67
45:BX:14:LEU:HD22	45:BX:19:LYS:H	1.58	0.67
24:BA:86:C:OP1	45:BX:30:VAL:HG23	1.93	0.67
45:BX:40:GLU:O	45:BX:62:GLU:OE2	2.13	0.67
46:BY:122:ARG:HG2	46:BY:171:ILE:HD12	1.75	0.67
25:BB:75:G:O2'	46:BY:27:VAL:CG2	2.41	0.67
46:BY:78:LYS:N	46:BY:78:LYS:HE2	2.08	0.67
3:AD:48:C:N3	3:AD:59:U:H2'	2.08	0.67
26:BC:47:LEU:HD23	26:BC:169:GLY:O	1.95	0.67
24:BA:1575:C:N4	24:BA:1576:U:N3	2.43	0.67
6:AG:47:ARG:CZ	6:AG:47:ARG:HB2	2.24	0.67
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.29	0.67
1:AA:977:A:N6	1:AA:1224:G:OP1	2.27	0.67
1:AA:1256:A:N6	1:AA:1278:U:H2'	2.10	0.67
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.29	0.67
1:AA:184:G:C5'	1:AA:224:C:H4'	2.24	0.67
1:AA:236:G:H2'	1:AA:237:C:C6	2.29	0.67
1:AA:301:G:N2	1:AA:302:G:C1'	2.57	0.67
1:AA:689:C:H4'	1:AA:705:U:H1'	1.74	0.67
1:AA:92:G:H2'	1:AA:93:U:O4'	1.95	0.67
3:AD:34:G:OP1	3:AD:35:A:H5'	1.94	0.67
4:AE:184:VAL:H	4:AE:198:ASP:CG	1.98	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:119:GLN:HG3	6:AG:123:HIS:HD2	1.55	0.67
6:AG:150:GLU:HA	6:AG:153:ARG:NE	2.09	0.67
6:AG:55:ALA:O	6:AG:59:ARG:CG	2.37	0.67
15:AP:16:ASP:HA	15:AP:19:LEU:CD2	2.24	0.67
15:AP:66:LEU:HA	15:AP:70:LEU:HD12	1.76	0.67
48:B1:42:ASN:O	48:B1:45:ILE:HG12	1.94	0.67
50:B3:42:PHE:C	50:B3:61:ARG:NH1	2.48	0.67
50:B3:57:GLU:O	50:B3:60:GLN:HG3	1.95	0.67
54:B7:16:ILE:HG23	54:B7:22:VAL:CG2	2.24	0.67
24:BA:1271:G:H1	43:BV:87:PRO:HG3	1.59	0.67
24:BA:1548:C:H2'	24:BA:1549:C:C6	2.30	0.67
24:BA:742:G:C4'	24:BA:1675:C:O2'	2.41	0.67
24:BA:1943:U:C4'	24:BA:1944:U:O5'	2.43	0.67
24:BA:2009:G:H4'	43:BV:40:ASN:HD21	1.60	0.67
24:BA:578:A:H2'	24:BA:2018:G:H5''	1.77	0.67
24:BA:216:A:C2	24:BA:217:G:C5	2.83	0.67
24:BA:228:A:H8	24:BA:229:A:H4'	1.60	0.67
24:BA:641:C:O2'	24:BA:2350:C:OP1	2.11	0.67
24:BA:2359:C:H6	24:BA:2359:C:O5'	1.78	0.67
24:BA:1127:A:C2	24:BA:2518:A:N3	2.63	0.67
24:BA:2582:G:H21	24:BA:2583:G:H1'	1.59	0.67
24:BA:2592:G:C5	24:BA:2593:U:C5	2.83	0.67
24:BA:2626:C:H6	24:BA:2626:C:O5'	1.76	0.67
24:BA:296:C:O2'	24:BA:297:C:O4'	2.10	0.67
24:BA:704:G:C2'	24:BA:726:G:N2	2.52	0.67
25:BB:101:A:H2'	25:BB:102:G:C8	2.28	0.67
25:BB:58:A:N6	25:BB:59:A:N6	2.42	0.67
27:BD:217:ARG:NE	27:BD:218:ARG:HD3	2.08	0.67
28:BE:173:VAL:HG22	28:BE:183:LEU:O	1.93	0.67
29:BF:197:ASP:HA	29:BF:200:GLU:HG3	1.76	0.67
30:BG:138:GLN:CG	30:BG:155:MET:HE2	2.25	0.67
34:BM:108:PRO:O	34:BM:109:LYS:HB3	1.93	0.67
40:BS:26:ASP:HB3	40:BS:94:ALA:HA	1.74	0.67
41:BT:12:ARG:HB2	41:BT:13:LYS:NZ	2.10	0.67
42:BU:15:GLU:HB3	42:BU:16:PRO:CD	2.24	0.67
45:BX:7:VAL:CG2	45:BX:71:LYS:HG3	2.24	0.67
46:BY:18:LEU:HD13	46:BY:23:LYS:HG2	1.75	0.67
24:BA:2128:C:H2'	24:BA:2129:C:H5'	1.75	0.67
26:BC:29:VAL:HG13	26:BC:30:LYS:N	2.09	0.67
26:BC:28:LEU:HA	26:BC:31:GLU:OE1	1.94	0.67
1:AA:1305:G:O4'	1:AA:1305:G:OP2	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1507:A:C2'	1:AA:1508:G:H5'	2.25	0.67
1:AA:432:A:C8	1:AA:433:C:C6	2.82	0.67
1:AA:533:A:H2'	1:AA:535:A:OP2	1.93	0.67
1:AA:866:C:H5	1:AA:867:G:H1'	1.58	0.67
1:AA:890:G:H2'	1:AA:891:U:OP2	1.93	0.67
4:AE:35:GLU:HG2	4:AE:39:ILE:O	1.95	0.67
6:AG:146:ILE:HD12	6:AG:146:ILE:H	1.59	0.67
7:AH:147:ASP:HA	7:AH:150:ARG:CB	2.23	0.67
10:AK:102:ARG:HH11	10:AK:102:ARG:HG2	1.58	0.67
10:AK:103:VAL:HB	10:AK:108:GLY:CA	2.24	0.67
10:AK:109:ILE:HG12	10:AK:137:VAL:H	1.59	0.67
10:AK:33:GLU:CA	10:AK:36:LEU:HD21	2.24	0.67
13:AN:42:TRP:HE3	13:AN:43:SER:N	1.92	0.67
20:AU:33:ASP:CG	20:AU:34:TYR:N	2.47	0.67
20:AU:53:ARG:HD3	20:AU:58:LEU:O	1.94	0.67
21:AV:52:TYR:HA	21:AV:56:GLN:O	1.95	0.67
22:AW:12:ALA:N	22:AW:13:LEU:HD12	2.09	0.67
48:B1:8:ALA:O	48:B1:9:ARG:C	2.32	0.67
51:B4:9:LYS:O	51:B4:10:LYS:CB	2.42	0.67
52:B5:16:CYS:SG	52:B5:20:ASN:HB2	2.35	0.67
52:B5:48:VAL:HG13	52:B5:49:HIS:H	1.59	0.67
24:BA:117:G:H5'	24:BA:126:A:N3	2.10	0.67
24:BA:1180:C:C2	24:BA:1181:C:C5	2.83	0.67
24:BA:1322:A:OP2	24:BA:1322:A:H8	1.74	0.67
24:BA:1376:C:O2'	24:BA:1377:G:H5'	1.94	0.67
24:BA:145:G:H2'	24:BA:146:G:C8	2.30	0.67
24:BA:1491:G:C6	24:BA:1492:G:H1'	2.29	0.67
24:BA:1602:U:OP2	24:BA:1602:U:N3	2.27	0.67
24:BA:1728:G:N2	24:BA:1730:U:H1'	2.09	0.67
24:BA:1770:G:H2'	24:BA:1771:C:H6	1.59	0.67
24:BA:1784:A:H4'	24:BA:1785:A:O4'	1.95	0.67
24:BA:1930:G:O2'	24:BA:1931:U:OP2	2.11	0.67
24:BA:2018:G:H1'	41:BT:34:LYS:NZ	2.10	0.67
24:BA:2043:C:N4	24:BA:2777:G:C4	2.63	0.67
24:BA:2273:A:H2'	24:BA:2274:A:H5'	1.76	0.67
24:BA:2385:C:O2'	24:BA:2386:C:O5'	2.11	0.67
24:BA:2657:A:N7	24:BA:2658:C:C6	2.63	0.67
24:BA:2668:G:O2'	24:BA:2669:G:H5'	1.94	0.67
24:BA:530:G:O2'	24:BA:531:C:P	2.53	0.67
24:BA:61:G:C2	24:BA:62:C:C2	2.82	0.67
24:BA:783:A:N1	24:BA:785:G:O4'	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:784:A:C6	24:BA:792:G:H1'	2.30	0.67
24:BA:85:G:OP2	45:BX:28:LYS:NZ	2.25	0.67
24:BA:925:C:O2'	24:BA:926:A:H5'	1.95	0.67
24:BA:956:G:O6	24:BA:958:U:H1'	1.95	0.67
25:BB:88:C:N4	25:BB:89:G:N3	2.42	0.67
27:BD:132:PRO:O	27:BD:133:LEU:C	2.32	0.67
29:BF:157:VAL:CG1	29:BF:176:LEU:HD23	2.16	0.67
24:BA:450:G:C5'	29:BF:52:LYS:HD3	2.23	0.67
30:BG:105:LYS:HZ3	30:BG:139:LEU:CD1	2.06	0.67
30:BG:75:LYS:HG3	30:BG:87:PRO:HG3	1.75	0.67
31:BH:69:ARG:HG3	31:BH:70:THR:H	1.59	0.67
31:BH:88:LEU:HD23	31:BH:88:LEU:C	2.15	0.67
31:BH:9:ILE:HD13	31:BH:73:ALA:HB2	1.77	0.67
33:BL:7:VAL:HG11	33:BL:67:PHE:CD2	2.29	0.67
34:BM:23:LEU:HD12	34:BM:63:THR:CG2	2.24	0.67
35:BN:72:PRO:HB2	40:BS:84:GLN:NE2	2.07	0.67
38:BQ:73:VAL:HA	38:BQ:76:VAL:HB	1.75	0.67
40:BS:27:THR:HA	40:BS:52:ILE:HB	1.75	0.67
43:BV:76:VAL:HA	43:BV:104:THR:HG22	1.76	0.67
24:BA:1614:A:N6	43:BV:91:GLY:O	2.28	0.67
24:BA:142:G:H4'	44:BW:37:THR:OG1	1.94	0.67
44:BW:73:ARG:CG	44:BW:74:PRO:HD2	2.23	0.67
46:BY:73:GLN:O	46:BY:74:VAL:HG23	1.94	0.67
3:AD:21:A:N6	3:AD:48:C:OP2	2.27	0.67
3:AD:54:U:C2'	3:AD:55:U:H5'	2.24	0.67
24:BA:1578:U:H5''	24:BA:1580:A:C2	2.29	0.67
24:BA:1579:A:C2'	24:BA:1580:A:H5'	2.25	0.67
24:BA:2104:G:H2'	24:BA:2105:C:O4'	1.95	0.67
31:BH:156:ALA:HB1	31:BH:170:ARG:CB	2.25	0.67
1:AA:1084:G:C2	1:AA:1085:U:O4	2.48	0.67
1:AA:1476:G:C6	1:AA:1477:C:N4	2.63	0.67
1:AA:283:C:H2'	1:AA:283:C:O2	1.94	0.67
1:AA:296:U:C4	1:AA:297:G:N7	2.63	0.67
1:AA:508:C:H4'	1:AA:509:A:O5'	1.93	0.67
1:AA:518:C:O2'	1:AA:519:C:OP2	2.09	0.67
1:AA:665:A:H2'	1:AA:725:G:H22	1.57	0.67
1:AA:961:U:H6	1:AA:983:A:C4	2.12	0.67
2:AC:7:G:O2'	2:AC:8:U:OP1	2.11	0.67
5:AF:33:LEU:O	5:AF:36:ASP:HB3	1.94	0.67
7:AH:118:ILE:HG22	7:AH:119:LEU:N	2.10	0.67
1:AA:737:A:H5''	8:AI:92:LYS:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:85:TYR:HD1	9:AJ:154:TYR:CE1	2.12	0.67
10:AK:61:VAL:CG1	10:AK:62:TYR:N	2.56	0.67
11:AL:16:ARG:HB3	11:AL:64:THR:OG1	1.93	0.67
11:AL:3:GLN:CA	11:AL:20:ARG:HG2	2.22	0.67
12:AM:24:VAL:CG2	12:AM:34:VAL:HG11	2.23	0.67
1:AA:973:G:H1'	12:AM:55:LYS:H	1.60	0.67
11:AL:114:TYR:HD1	12:AM:60:ARG:HH12	1.42	0.67
14:AO:83:VAL:HA	14:AO:105:TYR:HD1	1.59	0.67
14:AO:93:LEU:O	14:AO:96:VAL:HG23	1.94	0.67
19:AT:61:GLU:HA	19:AT:71:PHE:CE1	2.30	0.67
19:AT:60:ILE:HG12	19:AT:61:GLU:O	1.94	0.67
21:AV:13:ASP:O	21:AV:17:GLU:HG3	1.95	0.67
21:AV:30:LEU:HD12	21:AV:59:PRO:HB3	1.77	0.67
51:B4:39:MET:HE1	51:B4:40:LYS:HA	1.76	0.67
54:B7:23:VAL:CG1	54:B7:24:ALA:N	2.57	0.67
24:BA:1407:C:O2'	24:BA:1408:C:H5'	1.94	0.67
24:BA:1443:G:C2	24:BA:1444:G:H1'	2.29	0.67
24:BA:1531:C:H2'	24:BA:1532:C:H5	1.54	0.67
24:BA:1762:A:C8	24:BA:1762:A:C3'	2.75	0.67
24:BA:1833:U:O2'	24:BA:1834:U:OP1	2.05	0.67
24:BA:1923:U:H2'	24:BA:1924:C:C5	2.29	0.67
24:BA:2758:A:OP2	24:BA:2759:G:OP2	2.13	0.67
24:BA:64:A:H5'	44:BW:73:ARG:HA	1.77	0.67
24:BA:754:C:C4'	24:BA:1618:A:H2	2.07	0.67
25:BB:48:A:H2'	25:BB:49:C:C5	2.30	0.67
24:BA:1820:U:H2'	27:BD:202:LYS:HG3	1.74	0.67
27:BD:57:GLY:H	27:BD:217:ARG:HD2	1.59	0.67
28:BE:48:GLN:CD	28:BE:48:GLN:N	2.48	0.67
30:BG:118:ARG:HD3	30:BG:118:ARG:C	2.15	0.67
30:BG:39:ILE:HG23	30:BG:157:ILE:HG13	1.77	0.67
30:BG:59:GLU:HG3	30:BG:60:LEU:H	1.59	0.67
30:BG:60:LEU:CG	30:BG:90:LEU:HD21	2.24	0.67
31:BH:120:GLY:N	31:BH:140:LYS:HZ3	1.89	0.67
31:BH:25:LYS:HD3	31:BH:27:LYS:HD2	1.75	0.67
33:BL:68:VAL:HB	33:BL:70:LYS:HE3	1.74	0.67
34:BM:89:LYS:HD2	34:BM:90:MET:N	2.09	0.67
35:BN:23:ARG:O	35:BN:40:VAL:HG12	1.94	0.67
35:BN:6:THR:HG23	35:BN:7:TYR:N	2.10	0.67
36:BO:107:LYS:HE2	36:BO:110:TYR:HD1	1.58	0.67
36:BO:114:ILE:CB	36:BO:129:ALA:O	2.41	0.67
36:BO:32:THR:OG1	36:BO:33:ARG:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:12:GLN:HG3	37:BP:13:GLN:HG2	1.74	0.67
38:BQ:53:HIS:CD2	38:BQ:56:LYS:HZ3	2.12	0.67
39:BR:17:ARG:NH1	39:BR:27:SER:HA	2.10	0.67
39:BR:48:LEU:CD2	39:BR:49:VAL:HG12	2.20	0.67
40:BS:57:PHE:HA	40:BS:61:PHE:HD2	1.54	0.67
40:BS:58:ASN:ND2	40:BS:58:ASN:O	2.23	0.67
24:BA:2120:G:H21	26:BC:167:LYS:CD	2.07	0.67
24:BA:2123:G:H4'	26:BC:172:HIS:CG	2.29	0.67
31:BH:108:GLY:O	31:BH:110:SER:N	2.22	0.67
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.60	0.67
1:AA:1418:A:N1	1:AA:1483:A:N1	2.43	0.67
1:AA:66:G:O4'	1:AA:173:U:C4	2.46	0.67
1:AA:373:A:C6	1:AA:482:A:N6	2.62	0.67
1:AA:448:A:OP2	1:AA:485:G:N2	2.28	0.67
1:AA:703:G:O2'	1:AA:704:A:OP2	2.11	0.67
1:AA:706:A:H4'	13:AN:29:ILE:CD1	2.24	0.67
1:AA:893:C:O2'	1:AA:894:G:H5'	1.95	0.67
1:AA:909:A:O2'	1:AA:910:C:H5'	1.94	0.67
4:AE:16:HIS:O	4:AE:204:ASN:HB2	1.95	0.67
4:AE:54:THR:CG2	4:AE:201:ILE:HD11	2.23	0.67
4:AE:42:ILE:HG12	4:AE:43:ASP:N	2.07	0.67
5:AF:151:VAL:HG13	5:AF:200:ALA:HB2	1.75	0.67
5:AF:182:ILE:HA	5:AF:204:LEU:HG	1.77	0.67
5:AF:84:ILE:HA	5:AF:87:LEU:HD12	1.76	0.67
6:AG:158:ILE:CG2	6:AG:162:LEU:HD11	2.23	0.67
6:AG:191:ARG:NH2	6:AG:194:LEU:O	2.27	0.67
7:AH:89:ILE:HG12	7:AH:131:ILE:HD12	1.77	0.67
9:AJ:133:GLY:O	9:AJ:137:LYS:HG3	1.95	0.67
9:AJ:5:ARG:O	9:AJ:7:ALA:N	2.26	0.67
11:AL:91:ASP:O	11:AL:91:ASP:CG	2.33	0.67
1:AA:683:G:H21	13:AN:38:ASN:HA	1.60	0.67
15:AP:22:ILE:HD12	15:AP:25:ILE:HD12	1.77	0.67
1:AA:1316:G:H5'	16:AQ:17:LYS:NZ	2.09	0.67
16:AQ:44:LEU:HD23	16:AQ:45:ARG:N	2.08	0.67
49:B2:7:LYS:NZ	49:B2:33:GLN:N	2.42	0.67
49:B2:54:VAL:HG13	49:B2:55:ARG:N	2.08	0.67
50:B3:53:GLU:CG	50:B3:54:GLY:N	2.57	0.67
50:B3:58:ARG:HD3	50:B3:59:PHE:CE2	2.29	0.67
51:B4:17:ASP:O	51:B4:19:ARG:N	2.27	0.67
52:B5:41:PRO:HD2	52:B5:46:HIS:O	1.94	0.67
53:B6:10:ARG:C	53:B6:14:LYS:HG3	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1020:A:O2'	24:BA:1140:C:N4	2.27	0.67
24:BA:1186:G:C8	24:BA:1187:G:C8	2.82	0.67
24:BA:126:A:N7	24:BA:127:A:C6	2.62	0.67
24:BA:141:A:H2'	24:BA:141:A:N3	2.10	0.67
24:BA:1781:C:O2'	24:BA:2609:U:O4	2.13	0.67
24:BA:1881:C:H4'	24:BA:1881:C:OP1	1.94	0.67
24:BA:1914:C:H2'	24:BA:1914:C:O2	1.94	0.67
24:BA:2081:C:C2'	24:BA:2082:A:H5'	2.24	0.67
24:BA:2216:G:C2	24:BA:2217:G:C8	2.82	0.67
24:BA:966:G:O2'	24:BA:2267:A:N6	2.28	0.67
24:BA:241:A:O4'	24:BA:241:A:OP1	2.12	0.67
24:BA:2611:U:H5'	24:BA:2611:U:H6	1.60	0.67
24:BA:627:A:H2	24:BA:651:G:H5'	1.58	0.67
24:BA:625:G:H21	24:BA:653:A:N6	1.92	0.67
24:BA:832:G:H2'	24:BA:833:U:H5	1.59	0.67
24:BA:97:C:O5'	24:BA:97:C:H6	1.76	0.67
27:BD:217:ARG:CG	27:BD:218:ARG:N	2.58	0.67
24:BA:1804:C:O3'	27:BD:250:TRP:CZ2	2.48	0.67
28:BE:159:HIS:NE2	28:BE:162:ALA:HB3	2.09	0.67
29:BF:34:TRP:CZ3	36:BO:8:PRO:HD2	2.30	0.67
30:BG:43:LEU:HD21	30:BG:88:ILE:O	1.95	0.67
25:BB:45:A:C1'	30:BG:95:ARG:NH1	2.56	0.67
31:BH:153:LYS:H	31:BH:154:PRO:HD2	1.59	0.67
31:BH:71:LEU:O	31:BH:74:ASN:HB3	1.95	0.67
33:BL:98:ARG:CB	33:BL:139:VAL:HB	2.22	0.67
34:BM:103:VAL:CG2	34:BM:104:LYS:N	2.57	0.67
34:BM:34:LEU:HD11	34:BM:120:LEU:HD22	1.76	0.67
24:BA:833:U:O4'	36:BO:48:PRO:HD2	1.95	0.67
37:BP:27:VAL:HG22	37:BP:28:ALA:N	2.10	0.67
37:BP:6:ARG:NH2	37:BP:9:TYR:N	2.43	0.67
38:BQ:113:LEU:HD22	38:BQ:114:VAL:N	2.10	0.67
38:BQ:18:LEU:O	38:BQ:22:ARG:HG3	1.95	0.67
24:BA:2876:G:C5'	40:BS:1:MET:N	2.57	0.67
40:BS:45:PHE:HE1	40:BS:86:ILE:CG2	2.08	0.67
43:BV:43:GLY:O	43:BV:47:VAL:HG22	1.95	0.67
46:BY:118:GLN:OE1	46:BY:174:VAL:HG12	1.94	0.67
46:BY:89:PHE:CD1	46:BY:91:LEU:HD11	2.30	0.67
1:AA:748:C:H6	1:AA:748:C:C3'	2.04	0.67
24:BA:2246:G:C2	24:BA:2247:A:C6	2.82	0.67
1:AA:1104:G:O2'	1:AA:1105:A:H5'	1.94	0.67
1:AA:1128:C:H1'	1:AA:1146:A:N6	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:132:C:H5'	1:AA:262:A:H1'	1.76	0.67
1:AA:197:A:H62	1:AA:221:C:C5'	2.00	0.67
1:AA:404:U:H5'	6:AG:122:ARG:HH11	1.60	0.67
1:AA:373:A:N7	1:AA:482:A:N7	2.42	0.67
1:AA:633:G:H2'	1:AA:634:C:H6	1.60	0.67
1:AA:640:A:H2'	1:AA:641:U:C5'	2.25	0.67
1:AA:652:U:C6	1:AA:752:G:C2	2.83	0.67
1:AA:673:G:N2	1:AA:674:G:C2	2.63	0.67
1:AA:706:A:C4'	13:AN:29:ILE:HD13	2.24	0.67
1:AA:724:G:N2	1:AA:725:G:C1'	2.58	0.67
4:AE:27:LYS:HB3	4:AE:194:PRO:HD2	1.77	0.67
5:AF:183:ASP:N	5:AF:204:LEU:HD21	2.08	0.67
8:AI:30:LEU:C	8:AI:35:ALA:HB2	2.15	0.67
8:AI:75:LEU:HD22	8:AI:79:LEU:HD23	1.75	0.67
12:AM:7:LYS:O	12:AM:97:GLU:CB	2.43	0.67
13:AN:99:GLN:O	13:AN:105:VAL:HG21	1.94	0.67
14:AO:33:ARG:H	14:AO:85:ILE:HG23	1.60	0.67
14:AO:59:ARG:CA	14:AO:64:TYR:O	2.35	0.67
11:AL:111:ARG:HD2	16:AQ:61:TRP:HE1	1.60	0.67
19:AT:43:LEU:HD22	19:AT:44:ALA:H	1.59	0.67
20:AU:40:LEU:O	20:AU:42:ARG:N	2.28	0.67
50:B3:10:VAL:N	50:B3:11:PRO:HD2	2.06	0.67
50:B3:23:GLU:HA	50:B3:27:THR:O	1.95	0.67
24:BA:1809:A:N6	50:B3:3:GLU:HG3	2.09	0.67
50:B3:42:PHE:N	50:B3:58:ARG:HH11	1.91	0.67
54:B7:49:VAL:O	54:B7:53:PRO:HG3	1.95	0.67
24:BA:1056:G:H5'	24:BA:1057:A:C5'	2.19	0.67
24:BA:1212:G:H3'	24:BA:1212:G:C8	2.30	0.67
24:BA:1237:A:HO2'	24:BA:1238:G:C4'	2.06	0.67
24:BA:1202:C:H41	24:BA:1241:A:H62	1.42	0.67
24:BA:1375:C:C2	24:BA:1376:C:C5	2.83	0.67
24:BA:1487:G:O2'	24:BA:1488:G:H5'	1.94	0.67
24:BA:1632:A:H8	24:BA:1632:A:O5'	1.76	0.67
24:BA:1799:G:H3'	27:BD:183:ARG:NH2	2.04	0.67
24:BA:18:C:O2	24:BA:553:U:H5''	1.95	0.67
24:BA:2029:G:C5	24:BA:2031:A:OP1	2.47	0.67
24:BA:205:G:HO2'	24:BA:206:U:P	2.17	0.67
24:BA:2091:U:C2'	24:BA:2092:U:H5'	2.24	0.67
24:BA:2607:G:N1	24:BA:2608:G:C2	2.63	0.67
24:BA:2014:A:H2	24:BA:2613:U:N3	1.91	0.67
24:BA:2711:A:OP2	24:BA:2712(A):A:OP2	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:271(C):U:O4	24:BA:421:U:N3	2.27	0.67
24:BA:458:G:O2'	53:B6:40:TRP:CZ2	2.48	0.67
24:BA:616:A:O3'	24:BA:617:G:O4'	2.12	0.67
24:BA:989:G:HO2'	24:BA:990:A:P	2.17	0.67
27:BD:137:PRO:CG	27:BD:140:THR:HG21	2.24	0.67
27:BD:159:ALA:HB3	27:BD:202:LYS:NZ	2.10	0.67
27:BD:56:GLY:HA3	27:BD:58:HIS:HE1	1.59	0.67
28:BE:51:PHE:HB3	28:BE:76:ARG:HH21	1.60	0.67
29:BF:149:ASP:C	29:BF:172:TRP:NE1	2.47	0.67
30:BG:102:PHE:CE2	30:BG:106:LEU:HD21	2.29	0.67
32:BK:5:LEU:N	32:BK:5:LEU:HD23	2.09	0.67
33:BL:49:GLY:HA2	33:BL:53:VAL:CG2	2.24	0.67
35:BN:6:THR:HG22	35:BN:8:LEU:HG	1.76	0.67
36:BO:122:PRO:C	36:BO:138:LEU:HA	2.15	0.67
24:BA:2393:A:H5''	36:BO:56:SER:N	2.08	0.67
36:BO:79:ARG:O	36:BO:83:VAL:HG22	1.95	0.67
37:BP:16:ARG:NE	37:BP:73:PRO:HD3	2.10	0.67
37:BP:75:THR:HG23	37:BP:91:GLU:OE1	1.95	0.67
39:BR:40:ILE:HG22	39:BR:41:ASP:N	2.10	0.67
39:BR:3:ARG:HG2	39:BR:4:LEU:HD23	1.77	0.67
40:BS:28:VAL:HG21	40:BS:90:GLN:HE22	1.60	0.67
41:BT:24:TYR:N	41:BT:24:TYR:CD1	2.60	0.67
43:BV:28:SER:H	43:BV:31:GLU:CD	1.98	0.67
45:BX:74:PRO:CB	45:BX:101:LYS:N	2.58	0.67
47:BZ:36:ILE:HG12	47:BZ:37:LEU:H	1.57	0.67
47:BZ:21:LEU:HD11	47:BZ:40:GLN:CA	2.25	0.67
47:BZ:44:ARG:O	47:BZ:44:ARG:HG2	1.94	0.67
32:BK:108:THR:C	32:BK:109:ILE:HD12	2.15	0.67
39:BR:56:LEU:HD21	39:BR:59:LYS:NZ	2.10	0.67
1:AA:1361:G:H3'	1:AA:1361:G:C8	2.29	0.67
1:AA:438:G:H22	1:AA:495:A:P	2.17	0.67
1:AA:654:G:H1'	1:AA:753:A:C2	2.30	0.67
1:AA:701:C:H4'	1:AA:702:A:OP2	1.94	0.67
2:AC:6:G:H2'	2:AC:7:G:C8	2.30	0.67
4:AE:145:LEU:O	4:AE:149:LEU:CB	2.43	0.67
5:AF:120:VAL:CG2	5:AF:137:ALA:HB2	2.25	0.67
6:AG:35:ARG:O	6:AG:37:PRO:N	2.28	0.67
10:AK:64:LYS:HG2	10:AK:79:VAL:CG2	2.14	0.67
1:AA:1350:A:OP2	11:AL:118:LYS:HG3	1.94	0.67
11:AL:49:PRO:CD	11:AL:78:LYS:HG2	2.25	0.67
13:AN:111:ASP:O	13:AN:112:THR:C	2.31	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:15:VAL:HG11	15:AP:39:ILE:HD11	1.76	0.67
12:AM:49:VAL:HG12	16:AQ:45:ARG:HD2	1.77	0.67
5:AF:29:TYR:CE2	16:AQ:54:PRO:HG2	2.30	0.67
17:AR:36:ILE:CD1	17:AR:59:MET:SD	2.82	0.67
17:AR:39:LEU:HD21	17:AR:56:LEU:CD1	2.25	0.67
19:AT:18:THR:HG23	19:AT:69:LYS:CE	2.24	0.67
20:AU:51:LEU:O	20:AU:56:THR:HG23	1.95	0.67
21:AV:15:LEU:HD12	21:AV:44:MET:CE	2.25	0.67
24:BA:1024:G:C4	24:BA:1025:G:C8	2.83	0.67
24:BA:1044:G:H1	24:BA:1112:G:HO2'	1.39	0.67
24:BA:1520:U:O2'	24:BA:1521:G:H5''	1.95	0.67
24:BA:1531:C:C2	24:BA:1532:C:H5	2.13	0.67
24:BA:1634:A:O2'	24:BA:1635:G:P	2.53	0.67
24:BA:1816:G:P	27:BD:43:ARG:CZ	2.83	0.67
24:BA:1913:A:C1'	24:BA:1918:A:H61	2.05	0.67
24:BA:1964:G:O2'	24:BA:1965:C:OP1	2.12	0.67
24:BA:2209:C:O2'	24:BA:2210:G:H3'	1.94	0.67
24:BA:2392:A:C2	24:BA:2429:G:C4	2.83	0.67
24:BA:1127:A:N1	24:BA:2518:A:N3	2.42	0.67
24:BA:2555:U:C5	24:BA:2556:C:O4'	2.48	0.67
24:BA:2573:C:O5'	24:BA:2573:C:H6	1.77	0.67
24:BA:2626:C:C3'	24:BA:2626:C:C6	2.77	0.67
24:BA:491:G:N3	24:BA:492:A:H1'	2.10	0.67
24:BA:675:A:C8	24:BA:676:A:H2	2.12	0.67
24:BA:676:A:C2'	24:BA:677:A:H5'	2.22	0.67
24:BA:941:A:N1	24:BA:942:G:C2	2.63	0.67
24:BA:569:U:P	24:BA:945:A:H61	2.18	0.67
24:BA:954:G:H2'	24:BA:955:C:O4'	1.95	0.67
24:BA:964:C:O2'	24:BA:2273:A:C8	2.46	0.67
27:BD:69:ARG:NH2	27:BD:130:ALA:CB	2.58	0.67
27:BD:145:VAL:HB	27:BD:155:LEU:HD22	1.75	0.67
27:BD:161:THR:HG22	27:BD:196:VAL:CB	2.22	0.67
24:BA:1789:A:H4'	27:BD:222:ARG:HE	1.58	0.67
24:BA:1817:G:O5'	27:BD:88:ARG:NH2	2.27	0.67
27:BD:89:SER:O	27:BD:159:ALA:HB2	1.95	0.67
28:BE:124:GLY:HA3	28:BE:136:ARG:HB2	1.77	0.67
28:BE:47:VAL:HG22	28:BE:79:ARG:HD2	1.77	0.67
31:BH:103:LEU:HD22	31:BH:115:VAL:HB	1.74	0.67
31:BH:74:ASN:HB2	31:BH:138:LYS:NZ	2.10	0.67
32:BK:7:GLU:N	32:BK:8:PRO:CD	2.54	0.67
34:BM:67:LEU:N	34:BM:87:LEU:HD21	2.04	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:122:PRO:CB	36:BO:141:ALA:HB3	2.25	0.67
36:BO:15:ARG:NE	36:BO:16:ARG:H	1.93	0.67
37:BP:111:GLU:HB3	37:BP:113:GLN:H	1.60	0.67
38:BQ:86:ARG:NH2	38:BQ:87:TYR:CE2	2.63	0.67
39:BR:100:ALA:O	39:BR:101:LEU:C	2.32	0.67
35:BN:79:PHE:HD1	40:BS:73:GLU:OE2	1.78	0.67
41:BT:70:ARG:HG2	41:BT:75:ASN:CA	2.11	0.67
41:BT:77:SER:O	41:BT:81:HIS:HB2	1.93	0.67
43:BV:36:LEU:HD11	43:BV:47:VAL:HG23	1.77	0.67
44:BW:60:ARG:HD2	44:BW:62:LYS:HG2	1.77	0.67
47:BZ:82:ARG:HD2	47:BZ:83:PRO:N	2.10	0.67
32:BK:93:THR:O	32:BK:96:ASP:N	2.28	0.67
24:BA:2120:G:H21	26:BC:167:LYS:HD3	1.60	0.67
55:B8:13:LYS:HA	55:B8:13:LYS:HZ3	1.58	0.67
24:BA:2373:G:C4	24:BA:2374:C:C5	2.82	0.67
1:AA:1203:C:H2'	1:AA:1204:A:O4'	1.95	0.67
1:AA:923:A:O4'	1:AA:1398:A:C2	2.48	0.67
1:AA:1532:U:H4'	1:AA:1533:C:OP1	1.93	0.67
1:AA:106:C:O2	1:AA:379:C:C5'	2.42	0.67
1:AA:404:U:H2'	1:AA:405:U:C6	2.29	0.67
1:AA:454:C:H3'	1:AA:455:C:H6	1.60	0.67
1:AA:622:A:H2'	1:AA:623:C:H5'	1.75	0.67
1:AA:632:A:O2'	1:AA:633:G:H5'	1.95	0.67
1:AA:664:G:C8	1:AA:664:G:H3'	2.29	0.67
1:AA:735:C:O2'	1:AA:736:C:C5'	2.40	0.67
2:AC:3:C:O2'	2:AC:4:G:H5'	1.95	0.67
4:AE:19:HIS:O	4:AE:20:GLU:O	2.12	0.67
5:AF:150:LYS:HZ2	5:AF:152:ILE:HD13	1.60	0.67
5:AF:50:ALA:CA	5:AF:72:LYS:HD2	2.24	0.67
6:AG:159:ARG:O	6:AG:163:GLU:HB3	1.95	0.67
6:AG:59:ARG:O	6:AG:63:LYS:HD2	1.94	0.67
7:AH:84:PHE:CE1	7:AH:133:TYR:HB3	2.30	0.67
7:AH:72:GLN:O	7:AH:73:ASN:HB3	1.95	0.67
8:AI:6:VAL:HG22	8:AI:8:ILE:HG13	1.75	0.67
10:AK:97:VAL:HG22	10:AK:98:LYS:HD3	1.77	0.67
12:AM:25:GLU:O	12:AM:28:ARG:HB2	1.93	0.67
12:AM:79:ARG:NH1	12:AM:82:ILE:HD12	2.08	0.67
13:AN:84:VAL:HG13	13:AN:109:VAL:O	1.95	0.67
13:AN:84:VAL:HG21	20:AU:88:LYS:HD3	1.77	0.67
14:AO:88:GLY:HA3	14:AO:99:HIS:NE2	2.09	0.67
1:AA:189:U:N3	19:AT:72:ARG:NH2	2.40	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:63:THR:HB	21:AV:66:MET:CE	2.25	0.67
53:B6:25:PRO:O	53:B6:29:LYS:HD3	1.95	0.67
54:B7:26:LYS:HG3	54:B7:45:GLY:C	2.15	0.67
55:B8:1:MET:O	55:B8:33:LYS:O	2.13	0.67
55:B8:1:MET:C	55:B8:35:ARG:HD2	2.16	0.67
24:BA:1139:G:H8	24:BA:1139:G:O5'	1.78	0.67
24:BA:1166:C:C2	24:BA:1184:G:N2	2.63	0.67
24:BA:1336:A:H2'	24:BA:1337:G:C8	2.30	0.67
24:BA:1479:G:N2	24:BA:1515:C:C2	2.61	0.67
24:BA:1675:C:O2	24:BA:1676:A:C8	2.47	0.67
24:BA:1872:A:C2'	24:BA:1878:G:H5'	2.20	0.67
24:BA:1916:A:C2	24:BA:1917:U:O4	2.48	0.67
24:BA:1970:A:O2'	24:BA:1971:A:P	2.53	0.67
24:BA:2033:A:HO2'	24:BA:2034:U:P	2.17	0.67
24:BA:2254:C:H2'	24:BA:2255:G:C5'	2.24	0.67
24:BA:2336:A:O2'	24:BA:2337:G:OP1	2.10	0.67
24:BA:2077:A:C4	24:BA:2435:A:N7	2.63	0.67
24:BA:2569:G:C2	24:BA:2570:G:C8	2.82	0.67
24:BA:27:G:N2	24:BA:512:G:H2'	2.09	0.67
24:BA:279:C:H2'	24:BA:280:C:C5	2.30	0.67
24:BA:33:U:C5	24:BA:446:G:N2	2.63	0.67
24:BA:848:G:N2	24:BA:933:A:C4	2.63	0.67
24:BA:935:C:H2'	24:BA:936:C:H6	1.58	0.67
28:BE:147:PRO:HB2	28:BE:149:ARG:HH21	1.57	0.67
28:BE:4:ILE:HD11	28:BE:76:ARG:NE	2.09	0.67
30:BG:139:LEU:C	30:BG:142:PRO:HD3	2.14	0.67
31:BH:98:LEU:CG	31:BH:123:PHE:HB2	2.25	0.67
31:BH:124:GLU:HB3	31:BH:132:ARG:NH1	2.10	0.67
33:BL:23:VAL:HA	33:BL:27:LEU:HG	1.77	0.67
34:BM:103:VAL:HG23	34:BM:117:PHE:HE2	1.59	0.67
34:BM:14:VAL:HG23	34:BM:50:ASP:OD1	1.95	0.67
36:BO:90:ARG:CA	36:BO:125:VAL:HG13	2.25	0.67
37:BP:121:ALA:O	37:BP:125:LEU:HG	1.95	0.67
37:BP:134:ARG:NH1	37:BP:135:ASP:HA	2.10	0.67
38:BQ:17:ARG:HG2	38:BQ:18:LEU:N	2.10	0.67
24:BA:2296:U:H5	39:BR:5:THR:HG23	1.59	0.67
40:BS:48:ILE:CG2	40:BS:50:ILE:HD11	2.25	0.67
45:BX:53:PRO:O	45:BX:55:TYR:N	2.28	0.67
26:BC:62:VAL:CG1	26:BC:195:ALA:CB	2.73	0.67
24:BA:2175:C:OP1	26:BC:5:LYS:HG2	1.95	0.67
1:AA:210:U:H4'	1:AA:216:G:O4'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.60	0.67
1:AA:1202:G:N2	1:AA:1203:C:H1'	2.10	0.67
1:AA:1237:C:O2	1:AA:1335:C:H5'	1.94	0.67
1:AA:1433:A:H2'	1:AA:1434:A:O4'	1.95	0.67
1:AA:1443:G:O3'	1:AA:1446:A:H4'	1.95	0.67
1:AA:265:G:H2'	1:AA:267:C:C5	2.26	0.67
1:AA:703:G:O5'	1:AA:703:G:C8	2.47	0.67
1:AA:938:A:H2'	1:AA:939:G:H5'	1.76	0.67
1:AA:989:C:O2'	1:AA:990:C:H5'	1.95	0.67
2:AC:76:A:H3'	2:AC:76:A:OP1	1.93	0.67
5:AF:147:LYS:HB2	5:AF:203:PHE:CB	2.23	0.67
5:AF:182:ILE:HG12	5:AF:203:PHE:CD1	2.30	0.67
5:AF:42:LEU:HD12	5:AF:94:LEU:HD12	1.77	0.67
6:AG:145:GLU:HB3	6:AG:184:LYS:HG2	1.77	0.67
7:AH:48:ALA:HB1	7:AH:53:LEU:HB3	1.77	0.67
8:AI:2:ARG:HG3	8:AI:69:GLU:HG2	1.76	0.67
9:AJ:65:ALA:N	9:AJ:128:ALA:HA	2.10	0.67
10:AK:95:VAL:CG1	10:AK:133:LEU:HD11	2.25	0.67
13:AN:57:THR:OG1	13:AN:59:TYR:HB3	1.94	0.67
14:AO:54:LYS:HB3	14:AO:70:ILE:HD12	1.76	0.67
15:AP:27:LYS:NZ	15:AP:31:LYS:HZ3	1.93	0.67
16:AQ:11:LYS:O	16:AQ:13:THR:N	2.27	0.67
1:AA:1316:G:C5'	16:AQ:17:LYS:NZ	2.58	0.67
18:AS:67:THR:HG22	18:AS:68:ASP:N	2.10	0.67
19:AT:31:LEU:O	19:AT:32:TYR:CD2	2.48	0.67
1:AA:735:C:O2'	20:AU:75:ILE:HD11	1.93	0.67
21:AV:4:SER:O	21:AV:5:LEU:HD23	1.95	0.67
22:AW:14:LYS:O	22:AW:18:GLN:HG2	1.94	0.67
49:B2:40:THR:HG22	49:B2:42:ALA:N	2.09	0.67
49:B2:50:VAL:CG1	49:B2:53:LEU:HD12	2.23	0.67
24:BA:2344:U:H5''	52:B5:38:LYS:HE2	1.76	0.67
24:BA:1074:G:H2'	24:BA:1075:C:C5	2.30	0.67
24:BA:1248:G:O2'	24:BA:1249:U:OP1	2.10	0.67
24:BA:1255:U:C4	29:BF:72:ARG:O	2.48	0.67
24:BA:1475:G:O6	24:BA:1517:G:C6	2.48	0.67
24:BA:152:G:H2'	24:BA:153:C:O4'	1.95	0.67
24:BA:1568:G:OP1	27:BD:61:LEU:CB	2.42	0.67
24:BA:1596:A:N6	24:BA:1597:A:C6	2.63	0.67
24:BA:1657:C:H6	24:BA:1657:C:O5'	1.78	0.67
24:BA:1676:A:C8	24:BA:1677:A:N7	2.63	0.67
24:BA:1935:G:C2'	24:BA:1962:C:H42	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2239:G:C3'	24:BA:2240:C:H5''	2.20	0.67
24:BA:2681:C:N4	24:BA:2725:A:H62	1.92	0.67
24:BA:660:G:H2'	24:BA:661:C:C6	2.30	0.67
24:BA:730:C:H2'	24:BA:731:C:C6	2.29	0.67
24:BA:950:G:C2'	24:BA:951:C:C6	2.72	0.67
24:BA:991:C:H5'	24:BA:1185:C:H2'	1.77	0.67
24:BA:2821:A:H5''	28:BE:110:GLY:HA3	1.76	0.67
28:BE:143:ASN:HD22	28:BE:143:ASN:N	1.93	0.67
28:BE:49:LEU:HD22	28:BE:76:ARG:O	1.94	0.67
29:BF:103:LYS:O	29:BF:106:ARG:HG2	1.95	0.67
29:BF:184:TYR:N	29:BF:184:TYR:CD2	2.58	0.67
29:BF:31:HIS:CB	36:BO:11:GLY:H	2.08	0.67
30:BG:139:LEU:O	30:BG:142:PRO:HD3	1.94	0.67
2:AC:56:C:C2'	30:BG:82:LEU:HA	2.25	0.67
32:BK:32:PRO:CD	32:BK:33:ARG:H	2.07	0.67
33:BL:45:THR:HG22	33:BL:48:MET:HE3	1.75	0.67
37:BP:22:LYS:CE	37:BP:23:GLY:H	2.08	0.67
39:BR:4:LEU:O	39:BR:8:GLU:HB2	1.93	0.67
42:BU:43:GLU:O	42:BU:44:LYS:CD	2.41	0.67
43:BV:58:ALA:O	43:BV:63:ASP:N	2.28	0.67
44:BW:85:PRO:CB	44:BW:87:GLN:HE21	2.08	0.67
44:BW:90:GLU:O	44:BW:93:GLU:HG2	1.95	0.67
46:BY:158:PRO:HB2	46:BY:159:PRO:CD	2.16	0.67
46:BY:6:LYS:HA	46:BY:37:VAL:CG1	2.24	0.67
47:BZ:46:LYS:CE	47:BZ:77:ARG:H	2.08	0.67
32:BK:101:LEU:HD12	32:BK:107:VAL:O	1.95	0.67
3:AD:63:G:C4	3:AD:64:C:C5	2.83	0.67
24:BA:2157:G:H5''	24:BA:2157:G:N3	2.10	0.67
26:BC:19:ILE:O	26:BC:224:ILE:HA	1.94	0.67
32:BK:58:LEU:HB3	32:BK:62:LYS:NZ	2.10	0.67
1:AA:122:G:C2	1:AA:123:C:C2	2.82	0.66
1:AA:1375:A:C2	1:AA:1376:U:C2	2.82	0.66
1:AA:764:C:C2'	1:AA:765:G:C8	2.78	0.66
4:AE:212:GLN:HE22	4:AE:215:LEU:HB3	1.59	0.66
5:AF:12:LEU:HD23	5:AF:13:GLY:N	2.10	0.66
6:AG:148:VAL:O	6:AG:153:ARG:HG2	1.95	0.66
6:AG:187:ARG:HE	6:AG:188:LEU:HG	1.58	0.66
7:AH:129:ILE:HG22	7:AH:130:ASN:N	2.09	0.66
7:AH:52:PRO:O	7:AH:55:VAL:CB	2.41	0.66
9:AJ:72:ARG:NH2	9:AJ:138:LYS:NZ	2.41	0.66
10:AK:137:VAL:HG12	10:AK:138:TRP:N	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:46:LYS:HE3	10:AK:64:LYS:HG3	1.77	0.66
11:AL:8:GLY:O	11:AL:76:ALA:HB1	1.94	0.66
16:AQ:45:ARG:NH1	16:AQ:45:ARG:HB2	2.05	0.66
18:AS:4:ILE:HD12	18:AS:64:ALA:HB1	1.77	0.66
20:AU:87:ARG:O	20:AU:88:LYS:C	2.34	0.66
50:B3:65:ASP:HA	50:B3:68:ARG:NH1	2.08	0.66
24:BA:1422:G:H2'	24:BA:1423:G:C8	2.30	0.66
24:BA:1516:U:H2'	24:BA:1517:G:H8	1.53	0.66
24:BA:1530:G:H2'	24:BA:1531:C:N1	2.09	0.66
24:BA:1545(A):A:H2'	24:BA:1546:C:H5'	1.77	0.66
24:BA:1656:C:H2'	24:BA:1657:C:C5	2.29	0.66
24:BA:1819:A:C8	27:BD:179:SER:OG	2.48	0.66
24:BA:1913:A:C4	24:BA:1918:A:N6	2.63	0.66
24:BA:1934:C:O2'	24:BA:1935:G:H5'	1.94	0.66
24:BA:2075:U:O2	24:BA:2077:A:OP2	2.13	0.66
24:BA:2431:U:OP2	24:BA:2432:A:OP2	2.12	0.66
24:BA:2565:A:H2'	24:BA:2566:A:H1'	1.76	0.66
24:BA:2703:C:O2'	24:BA:2704:C:H5'	1.95	0.66
24:BA:2784:C:H4'	28:BE:41:LYS:HE2	1.77	0.66
24:BA:2832:U:H2'	24:BA:2879:C:N4	2.10	0.66
24:BA:330:A:C2	24:BA:1210:A:H2'	2.29	0.66
24:BA:40:C:H2'	24:BA:41:C:C6	2.29	0.66
24:BA:451:C:H5	24:BA:453:C:H5'	1.59	0.66
24:BA:514:A:C2	24:BA:515:A:N9	2.63	0.66
24:BA:625:G:O2'	24:BA:656:G:H4'	1.94	0.66
28:BE:176:ILE:HG23	28:BE:181:LEU:HB2	1.75	0.66
28:BE:179:GLU:O	28:BE:181:LEU:HG	1.94	0.66
31:BH:85:LYS:NZ	31:BH:141:VAL:HG12	2.09	0.66
34:BM:128:HIS:HA	34:BM:131:GLN:HG3	1.76	0.66
34:BM:60:ILE:HG22	34:BM:61:ARG:N	2.10	0.66
35:BN:68:GLU:HG2	35:BN:76:ALA:CA	2.25	0.66
36:BO:123:LEU:HB2	36:BO:138:LEU:CA	2.26	0.66
36:BO:48:PRO:O	36:BO:51:PHE:HB2	1.94	0.66
36:BO:59:LEU:HD23	54:B7:25:MET:CE	2.16	0.66
38:BQ:86:ARG:NH1	38:BQ:86:ARG:CB	2.57	0.66
39:BR:26:LEU:HD11	39:BR:28:VAL:HB	1.77	0.66
25:BB:48:A:H5''	39:BR:92:TYR:CD2	2.30	0.66
41:BT:88:ILE:CD1	41:BT:88:ILE:N	2.54	0.66
43:BV:74:ALA:HB3	43:BV:105:VAL:HG23	1.77	0.66
43:BV:82:LEU:CD1	43:BV:84:ARG:HG3	2.13	0.66
44:BW:36:LYS:O	44:BW:39:ILE:HB	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:49:VAL:HG21	45:BX:51:VAL:HB	1.76	0.66
45:BX:86:ARG:HB3	45:BX:91:GLU:HB3	1.75	0.66
46:BY:118:GLN:CA	46:BY:118:GLN:NE2	2.56	0.66
32:BK:93:THR:CG2	32:BK:95:LYS:HB3	2.25	0.66
24:BA:2116:G:H5'	24:BA:2117:A:OP2	1.95	0.66
26:BC:212:VAL:N	26:BC:223:ARG:HE	1.89	0.66
26:BC:49:ILE:HG23	26:BC:208:PHE:HE1	1.60	0.66
1:AA:161:A:O2'	1:AA:162:A:H5'	1.95	0.66
40:BS:37:GLY:HA3	40:BS:43:GLN:HA	1.75	0.66
1:AA:1261:A:H61	1:AA:1274:G:C1'	2.01	0.66
1:AA:1316:G:H8	1:AA:1316:G:O5'	1.77	0.66
1:AA:50:A:C2	1:AA:360:A:N3	2.64	0.66
1:AA:598:U:H2'	1:AA:599:C:H6	1.60	0.66
1:AA:698:G:N2	1:AA:699:C:C2	2.63	0.66
1:AA:909:A:C2	1:AA:910:C:H1'	2.30	0.66
1:AA:947:G:O3'	15:AP:109:THR:OG1	2.09	0.66
1:AA:961:U:C5	1:AA:983:A:C5	2.84	0.66
1:AA:966:G:C2	2:AC:34:C:H5'	2.29	0.66
3:AD:34:G:H2'	3:AD:34:G:N3	2.09	0.66
5:AF:22:TRP:CZ3	5:AF:32:LEU:HD12	2.30	0.66
5:AF:58:GLU:O	5:AF:59:ARG:NE	2.27	0.66
6:AG:12:CYS:SG	6:AG:19:LEU:O	2.53	0.66
6:AG:61:LYS:N	6:AG:203:VAL:HG22	2.10	0.66
6:AG:4:TYR:CE2	6:AG:8:VAL:HG22	2.28	0.66
17:AR:35:ARG:NH1	17:AR:59:MET:HG3	2.09	0.66
1:AA:191(F):U:C2	22:AW:105:SER:HB2	2.30	0.66
1:AA:1242:C:H5'	23:AX:10:ARG:NH1	2.10	0.66
24:BA:2815:C:O2'	51:B4:42:PRO:CB	2.43	0.66
51:B4:40:LYS:NZ	51:B4:44:THR:H	1.92	0.66
52:B5:17:LYS:NZ	52:B5:50:ARG:HB2	2.08	0.66
24:BA:1183:G:O4'	24:BA:1184:G:C8	2.48	0.66
24:BA:1283:G:N2	24:BA:1286:A:O4'	2.28	0.66
24:BA:768:G:H5'	24:BA:1622:G:H4'	1.78	0.66
24:BA:1789:A:C8	24:BA:1790:C:C6	2.83	0.66
24:BA:199:A:N1	24:BA:2433:A:C2'	2.57	0.66
24:BA:2571:C:O2'	28:BE:146:THR:HG23	1.94	0.66
24:BA:270(X):G:N2	24:BA:270(Y):G:O2'	2.28	0.66
24:BA:282:A:N7	24:BA:283:A:H4'	2.09	0.66
24:BA:2847:U:H5'	24:BA:2848:G:OP2	1.95	0.66
24:BA:2789:C:O2'	24:BA:2893:G:N2	2.28	0.66
24:BA:371:A:H62	24:BA:424:G:C4'	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:434:U:O2'	24:BA:435:C:O5'	2.13	0.66
24:BA:699:A:N6	24:BA:734:A:C8	2.63	0.66
24:BA:819:A:C2	24:BA:943:U:O2	2.48	0.66
25:BB:24:G:H21	25:BB:27:C:N4	1.93	0.66
25:BB:44:G:H1'	25:BB:47:C:N4	2.09	0.66
25:BB:67:G:H8	25:BB:67:G:H5'	1.60	0.66
25:BB:73:A:N7	25:BB:104:A:C5	2.63	0.66
27:BD:157:ARG:HH11	27:BD:178:PRO:CG	2.08	0.66
27:BD:128:GLY:H	27:BD:193:VAL:HB	1.60	0.66
27:BD:53:PHE:C	27:BD:54:ARG:O	2.30	0.66
27:BD:85:ASP:C	27:BD:87:ASN:H	1.96	0.66
27:BD:92:ILE:CD1	27:BD:104:TYR:CD1	2.73	0.66
28:BE:102:VAL:CG2	28:BE:103:ASP:N	2.57	0.66
28:BE:176:ILE:HG12	28:BE:178:GLU:OE1	1.95	0.66
28:BE:23:VAL:CG1	28:BE:188:VAL:HG22	2.25	0.66
28:BE:23:VAL:HG11	28:BE:188:VAL:HG22	1.75	0.66
29:BF:134:GLY:O	29:BF:166:ALA:HB2	1.95	0.66
30:BG:144:ILE:HG22	30:BG:145:THR:N	2.11	0.66
30:BG:61:ALA:HB1	30:BG:67:LYS:HE2	1.77	0.66
31:BH:93:GLY:O	31:BH:107:VAL:HB	1.95	0.66
31:BH:43:VAL:HG13	31:BH:44:VAL:H	1.60	0.66
32:BK:5:LEU:HB3	32:BK:8:PRO:CG	2.25	0.66
33:BL:79:ARG:NH1	33:BL:87:GLY:HA2	2.10	0.66
34:BM:13:TRP:HA	34:BM:51:PHE:O	1.94	0.66
36:BO:124:LYS:HD2	36:BO:142:GLY:O	1.94	0.66
37:BP:14:ARG:CA	37:BP:14:ARG:NE	2.53	0.66
38:BQ:113:LEU:HD22	38:BQ:114:VAL:H	1.59	0.66
38:BQ:53:HIS:O	38:BQ:56:LYS:HG3	1.96	0.66
39:BR:40:ILE:CD1	39:BR:47:THR:HG23	2.25	0.66
43:BV:51:LEU:O	43:BV:54:ALA:HB3	1.96	0.66
32:BK:111:PRO:HG2	32:BK:112:LYS:H	1.61	0.66
24:BA:2118:U:OP1	24:BA:2147:G:C2	2.48	0.66
26:BC:190:ARG:HG3	26:BC:193:ILE:HD12	1.78	0.66
25:BB:1:U:O4	25:BB:2:C:N4	2.28	0.66
1:AA:1147:C:C2'	1:AA:1147:C:O2	2.39	0.66
1:AA:1224:G:H1	1:AA:1362(A):C:N4	1.94	0.66
1:AA:193:C:H2'	1:AA:194:C:C6	2.30	0.66
1:AA:317:G:O2'	1:AA:318:G:H5'	1.94	0.66
1:AA:384:G:H2'	1:AA:385:C:H6	1.59	0.66
1:AA:539:A:H2'	1:AA:540:G:C8	2.30	0.66
1:AA:913:A:O2'	1:AA:914:A:O5'	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:961:U:C6	1:AA:983:A:C6	2.83	0.66
2:AC:10:G:O2'	2:AC:11:A:H5'	1.96	0.66
4:AE:170:GLU:CB	4:AE:174:VAL:HG23	2.23	0.66
4:AE:52:GLU:HG2	4:AE:53:ARG:N	2.09	0.66
4:AE:69:LEU:HD23	4:AE:91:PRO:HB2	1.77	0.66
6:AG:56:VAL:CG1	6:AG:202:LEU:HD21	2.25	0.66
6:AG:88:VAL:HG12	6:AG:91:SER:H	1.59	0.66
9:AJ:123:GLU:OE1	9:AJ:134:ALA:HB2	1.95	0.66
9:AJ:75:VAL:CG2	9:AJ:145:ALA:HB1	2.24	0.66
9:AJ:66:VAL:O	9:AJ:70:LYS:HG3	1.95	0.66
10:AK:61:VAL:HG12	10:AK:62:TYR:H	1.60	0.66
1:AA:625:G:H4'	18:AS:16:HIS:CD2	2.31	0.66
19:AT:31:LEU:HG	19:AT:32:TYR:CD2	2.30	0.66
22:AW:102:GLY:O	22:AW:104:LEU:N	2.29	0.66
51:B4:40:LYS:HZ3	51:B4:43:HIS:N	1.93	0.66
24:BA:1011:G:C6	24:BA:1013:C:C5	2.84	0.66
24:BA:1459:G:O6	24:BA:1461:G:C4	2.49	0.66
24:BA:1631:A:C6	24:BA:1632:A:C2	2.83	0.66
24:BA:1675:C:H2'	24:BA:1676:A:C5'	2.24	0.66
24:BA:2001:A:H2'	24:BA:2002:G:C8	2.30	0.66
24:BA:2077:A:H1'	24:BA:2435:A:O4'	1.95	0.66
24:BA:239:U:HO2'	24:BA:240:G:H5'	1.58	0.66
24:BA:2074:U:C2'	24:BA:2597:G:H21	2.03	0.66
24:BA:282:A:C6	24:BA:283:A:H4'	2.30	0.66
24:BA:27:G:C2	24:BA:512:G:C2'	2.75	0.66
24:BA:511:U:O4	24:BA:512:G:N3	2.29	0.66
24:BA:563:G:N2	24:BA:564:C:N3	2.42	0.66
24:BA:566:U:H3'	24:BA:567:A:H8	1.60	0.66
24:BA:618:G:C8	24:BA:618(A):C:C5	2.84	0.66
24:BA:653:A:N7	24:BA:655:A:H1'	2.09	0.66
24:BA:700:G:H2'	24:BA:701:G:H8	1.61	0.66
24:BA:716:A:C2'	24:BA:717:G:H5'	2.25	0.66
24:BA:464:U:O2	24:BA:788:A:N7	2.29	0.66
24:BA:989:G:P	49:B2:10:LYS:HZ1	2.17	0.66
24:BA:996:A:C2	24:BA:997:G:C5	2.84	0.66
25:BB:114:G:O4'	39:BR:47:THR:HG21	1.94	0.66
25:BB:15:A:H1'	25:BB:109:G:C5	2.29	0.66
27:BD:157:ARG:CB	27:BD:160:GLY:HA3	2.24	0.66
27:BD:175:LEU:HD13	27:BD:176:ARG:C	2.14	0.66
27:BD:68:LYS:HB3	27:BD:70:TRP:NE1	2.10	0.66
31:BH:71:LEU:HD23	31:BH:72:ILE:CD1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:27:LEU:HA	33:BL:32:ALA:HB3	1.77	0.66
34:BM:78:TYR:O	34:BM:79:PRO:C	2.31	0.66
35:BN:23:ARG:H	35:BN:40:VAL:CG1	2.08	0.66
24:BA:2685:G:C5'	35:BN:67:LYS:HZ2	2.08	0.66
36:BO:114:ILE:HG12	36:BO:123:LEU:HD11	1.76	0.66
36:BO:92:GLU:OE1	36:BO:126:VAL:HG13	1.94	0.66
36:BO:130:PHE:N	36:BO:130:PHE:CD2	2.62	0.66
36:BO:72:PRO:C	36:BO:111:ARG:HB3	2.16	0.66
36:BO:88:LEU:HD21	36:BO:124:LYS:HZ2	1.59	0.66
37:BP:122:GLY:HA2	37:BP:125:LEU:HD12	1.77	0.66
37:BP:43:THR:CG2	37:BP:46:GLN:HE21	1.96	0.66
38:BQ:27:SER:O	38:BQ:30:THR:HB	1.95	0.66
40:BS:23:ARG:NH2	40:BS:89:VAL:C	2.49	0.66
40:BS:73:GLU:OE2	40:BS:106:SER:CB	2.43	0.66
24:BA:1009:A:H8	41:BT:59:ARG:NH2	1.92	0.66
42:BU:5:VAL:HG23	42:BU:12:TYR:CD2	2.29	0.66
45:BX:6:HIS:HB3	45:BX:71:LYS:HG2	1.77	0.66
46:BY:104:PHE:HZ	46:BY:120:ILE:CG2	2.08	0.66
3:AD:8:U:O4	3:AD:14:A:N7	2.29	0.66
26:BC:89:ALA:HB1	26:BC:154:ARG:CG	2.24	0.66
26:BC:74:VAL:HG13	26:BC:112:ALA:O	1.96	0.66
5:AF:157:ILE:HD12	5:AF:164:ARG:NE	2.10	0.66
1:AA:1194:U:H2'	1:AA:1195:C:O4'	1.96	0.66
1:AA:1249:C:O2	11:AL:70:LYS:HE2	1.94	0.66
1:AA:1302:U:H2'	1:AA:1303:C:C5'	2.25	0.66
1:AA:197:A:H62	1:AA:221:C:H5'	1.55	0.66
1:AA:374:A:O4'	1:AA:481:G:N2	2.29	0.66
1:AA:775:G:H2'	1:AA:776:G:C8	2.30	0.66
1:AA:1111:A:N1	5:AF:177:THR:HB	2.09	0.66
8:AI:3:ARG:HG3	8:AI:65:VAL:C	2.15	0.66
8:AI:81:ILE:O	8:AI:83:ASP:N	2.28	0.66
10:AK:11:THR:O	10:AK:13:ILE:N	2.28	0.66
10:AK:10:LEU:HD11	10:AK:85:ARG:HB2	1.78	0.66
14:AO:54:LYS:HD2	14:AO:54:LYS:H	1.58	0.66
15:AP:52:GLU:HA	15:AP:55:ARG:HD3	1.77	0.66
15:AP:60:VAL:HG22	15:AP:63:THR:HG21	1.75	0.66
1:AA:376:G:O3'	18:AS:5:ARG:HD2	1.96	0.66
18:AS:6:LEU:HD23	18:AS:17:TYR:CD2	2.25	0.66
1:AA:332:G:OP2	22:AW:10:LEU:HD23	1.95	0.66
22:AW:48:LYS:HB3	22:AW:51:GLU:CG	2.26	0.66
49:B2:52:HIS:NE2	49:B2:53:LEU:HD21	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:23:VAL:CG1	54:B7:46:ARG:HB2	2.26	0.66
24:BA:1007:C:H4'	34:BM:108:PRO:CD	2.25	0.66
24:BA:1144:G:C2'	24:BA:1145:C:H6	2.03	0.66
24:BA:1197:G:C6	24:BA:1198:U:C5	2.82	0.66
24:BA:1213:A:N1	24:BA:1237:A:H1'	2.09	0.66
24:BA:1243:G:N2	24:BA:1244:G:N3	2.43	0.66
24:BA:1428:C:C4	24:BA:1569:A:H5''	2.30	0.66
24:BA:1652:A:N7	24:BA:1653:G:N3	2.43	0.66
24:BA:1814:G:OP1	27:BD:43:ARG:CB	2.40	0.66
24:BA:2031:A:H8	24:BA:2031:A:O5'	1.79	0.66
24:BA:2453:A:O2'	24:BA:2454:G:C5'	2.44	0.66
24:BA:2533:A:H2'	24:BA:2534:A:C8	2.30	0.66
24:BA:2580:U:C4	24:BA:2581:G:N7	2.64	0.66
24:BA:270:A:N6	24:BA:370:G:C8	2.64	0.66
24:BA:636:G:N2	36:BO:75:ILE:CG2	2.59	0.66
24:BA:605:C:O4'	24:BA:658:C:H4'	1.96	0.66
24:BA:783:A:H2'	24:BA:784:A:C5'	2.25	0.66
24:BA:85:G:O5'	45:BX:28:LYS:HE3	1.96	0.66
27:BD:46:GLN:HE21	27:BD:52:ARG:NH2	1.94	0.66
27:BD:9:TYR:HE2	27:BD:201:HIS:HB2	1.58	0.66
28:BE:7:VAL:HB	28:BE:196:VAL:HG21	1.78	0.66
29:BF:74:ARG:NH2	29:BF:76:GLY:H	1.92	0.66
30:BG:170:ARG:HG2	30:BG:170:ARG:NH1	2.10	0.66
30:BG:47:LYS:HB2	30:BG:72:ARG:O	1.93	0.66
30:BG:91:ARG:CB	30:BG:91:ARG:HH21	2.04	0.66
31:BH:119:GLU:O	31:BH:121:ILE:N	2.28	0.66
31:BH:76:VAL:HA	31:BH:79:VAL:CG2	2.25	0.66
31:BH:87:LEU:N	31:BH:132:ARG:HB3	2.10	0.66
34:BM:104:LYS:CA	34:BM:117:PHE:HZ	2.01	0.66
34:BM:15:LEU:HD21	34:BM:137:LYS:C	2.16	0.66
34:BM:18:ALA:H	34:BM:21:LYS:HZ2	1.43	0.66
24:BA:943:U:P	36:BO:32:THR:HB	2.35	0.66
39:BR:39:ILE:HD11	39:BR:49:VAL:CG1	2.25	0.66
40:BS:14:TYR:N	40:BS:14:TYR:CD1	2.63	0.66
44:BW:12:VAL:HA	44:BW:29:TRP:NE1	2.10	0.66
45:BX:84:ARG:HG2	45:BX:85:VAL:N	2.10	0.66
46:BY:112:ARG:HG3	46:BY:112:ARG:NH1	2.10	0.66
26:BC:21:THR:N	26:BC:24:GLU:OE1	2.28	0.66
1:AA:749:C:H2'	1:AA:749:C:O2	1.94	0.66
1:AA:16:A:H2'	1:AA:16:A:N3	2.10	0.66
1:AA:22:G:OP1	1:AA:561:U:O2	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:484:G:C8	1:AA:486:U:C2	2.83	0.66
1:AA:51:A:O2'	1:AA:52:G:P	2.53	0.66
1:AA:559:A:C5'	1:AA:560:U:H5'	2.25	0.66
1:AA:572:A:O5'	1:AA:573:A:OP2	2.13	0.66
4:AE:174:VAL:O	4:AE:178:ARG:CB	2.36	0.66
4:AE:82:ARG:HB3	4:AE:83:MET:HE2	1.76	0.66
5:AF:139:GLN:HA	5:AF:170:GLN:HE22	1.60	0.66
5:AF:25:GLY:O	5:AF:28:GLN:NE2	2.29	0.66
5:AF:46:GLU:HB3	5:AF:47:LEU:HD22	1.75	0.66
8:AI:4:TYR:HA	8:AI:93:SER:OG	1.96	0.66
9:AJ:76:ARG:HB2	9:AJ:156:TRP:CE2	2.29	0.66
10:AK:38:ILE:HA	10:AK:41:ARG:HB2	1.76	0.66
12:AM:16:LEU:HD13	12:AM:94:VAL:HG21	1.76	0.66
13:AN:69:ALA:HB1	13:AN:103:LEU:CD1	2.25	0.66
17:AR:70:LEU:HG	17:AR:78:TYR:CG	2.30	0.66
17:AR:78:TYR:HE2	17:AR:82:ILE:HD11	1.57	0.66
20:AU:63:GLN:O	20:AU:67:ALA:HB2	1.96	0.66
22:AW:53:LEU:O	22:AW:56:MET:CB	2.43	0.66
48:B1:20:VAL:HG23	48:B1:55:LEU:HD23	1.75	0.66
38:BQ:99:LYS:HB2	51:B4:44:THR:HG22	1.78	0.66
54:B7:8:LYS:N	54:B7:8:LYS:HE2	2.10	0.66
24:BA:1366:A:H5'	50:B3:1:MET:N	2.11	0.66
24:BA:13:A:N6	24:BA:525:U:N1	2.44	0.66
24:BA:1691:C:H2'	24:BA:1691:C:O2	1.95	0.66
24:BA:1790:C:C3'	24:BA:1828:G:H22	2.05	0.66
24:BA:1823:G:C6	24:BA:1824:G:N7	2.64	0.66
24:BA:1882:C:C2	24:BA:1883:G:H1'	2.31	0.66
24:BA:1996:C:H2'	24:BA:1997:G:H5'	1.78	0.66
24:BA:570:G:H22	24:BA:2498:C:H1'	1.60	0.66
24:BA:2581:G:C6	24:BA:2610:C:C5	2.83	0.66
24:BA:265:A:N6	24:BA:266:G:N3	2.43	0.66
24:BA:411:G:N2	24:BA:2408:U:N3	2.44	0.66
24:BA:570:G:H1	24:BA:2498:C:H4'	1.60	0.66
24:BA:730:C:C3'	24:BA:731:C:C5'	2.73	0.66
24:BA:943:U:H3'	24:BA:943:U:H6	1.61	0.66
25:BB:82:G:N3	25:BB:83:G:C8	2.63	0.66
27:BD:148:GLU:O	27:BD:149:PRO:O	2.13	0.66
29:BF:122:LYS:CD	29:BF:192:LEU:HD12	2.25	0.66
29:BF:27:GLU:HG3	29:BF:116:ASP:CB	2.24	0.66
31:BH:145:ALA:O	31:BH:148:ILE:CG2	2.43	0.66
31:BH:72:ILE:O	31:BH:76:VAL:HG22	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:95:LYS:HB3	33:BL:98:ARG:NH2	2.09	0.66
34:BM:87:LEU:HA	34:BM:90:MET:HB2	1.78	0.66
35:BN:12:ASP:CA	35:BN:94:ARG:HD2	2.25	0.66
35:BN:11:ALA:HB3	35:BN:97:ARG:CD	2.25	0.66
24:BA:670:A:H2'	36:BO:41:ARG:CZ	2.26	0.66
37:BP:75:THR:HA	37:BP:91:GLU:CD	2.16	0.66
40:BS:20:PRO:HA	40:BS:22:PHE:CZ	2.30	0.66
35:BN:106:LEU:HD21	40:BS:38:ASN:HD21	1.59	0.66
40:BS:53:ARG:HG2	40:BS:65:LYS:O	1.96	0.66
42:BU:5:VAL:H	42:BU:12:TYR:HB3	1.60	0.66
44:BW:26:TYR:CD2	44:BW:89:ILE:HG21	2.31	0.66
3:AD:58:A:O2'	3:AD:60:U:O4	2.13	0.66
24:BA:2114:A:C2	24:BA:2115:G:H1'	2.30	0.66
26:BC:192:PHE:HE1	26:BC:196:LEU:HD22	1.57	0.66
24:BA:315:G:H2'	24:BA:316:C:H1'	1.76	0.66
1:AA:1094:G:C2'	1:AA:1108:G:H22	2.09	0.66
1:AA:1160:G:N7	1:AA:1181:G:C2	2.64	0.66
1:AA:116:A:H8	1:AA:116:A:O5'	1.78	0.66
1:AA:15:G:N7	1:AA:1396:A:C2	2.64	0.66
1:AA:193:C:C2	1:AA:194:C:C5	2.82	0.66
1:AA:266:G:H2'	19:AT:67:LYS:HZ3	1.59	0.66
1:AA:609:A:C4	1:AA:610:G:C8	2.84	0.66
4:AE:118:LEU:HD22	4:AE:142:LEU:CD1	2.25	0.66
4:AE:31:TYR:CE2	4:AE:200:ILE:CG2	2.79	0.66
5:AF:124:ILE:HG12	5:AF:130:VAL:HG22	1.76	0.66
5:AF:156:ARG:CB	5:AF:196:LEU:HD13	2.23	0.66
6:AG:148:VAL:CG1	6:AG:158:ILE:HD12	2.25	0.66
1:AA:1298:C:C4	9:AJ:114:ARG:HB3	2.30	0.66
9:AJ:29:LYS:NZ	9:AJ:98:SER:O	2.28	0.66
10:AK:14:ARG:O	10:AK:18:ARG:CD	2.43	0.66
14:AO:24:VAL:O	14:AO:24:VAL:HG12	1.94	0.66
19:AT:18:THR:HG22	19:AT:43:LEU:HD21	1.76	0.66
22:AW:85:MET:HB2	22:AW:104:LEU:HD21	1.77	0.66
50:B3:53:GLU:HG2	50:B3:54:GLY:N	2.07	0.66
52:B5:22:ALA:CB	52:B5:39:TYR:CE2	2.79	0.66
53:B6:42:LEU:HB3	53:B6:44:PRO:CG	2.26	0.66
24:BA:1190:G:O2'	24:BA:1191:G:H5'	1.96	0.66
24:BA:122:G:H2'	24:BA:123:G:C8	2.29	0.66
24:BA:1743:G:H3'	24:BA:1746:G:H8	1.60	0.66
24:BA:1770:G:H2'	24:BA:1771:C:H5	1.55	0.66
24:BA:1773:A:H2'	24:BA:1774:C:O4'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1802:A:C2	24:BA:1803:A:C4	2.84	0.66
24:BA:1838:C:H2'	24:BA:1838:C:O2	1.94	0.66
24:BA:2020:A:N1	24:BA:2035:G:C5	2.63	0.66
24:BA:2049:G:C2'	24:BA:2050:C:O5'	2.44	0.66
24:BA:2233:U:H2'	24:BA:2234:G:H8	1.60	0.66
24:BA:2306:C:C5	24:BA:2311:A:N6	2.63	0.66
24:BA:2318:G:OP2	24:BA:2318:G:C8	2.44	0.66
24:BA:2460:U:H2'	24:BA:2461:C:C6	2.30	0.66
24:BA:2525:G:N2	24:BA:2539:C:C4	2.64	0.66
24:BA:2546:U:H4'	24:BA:2565:A:C2	2.31	0.66
24:BA:747:U:N3	24:BA:2613:U:C4	2.61	0.66
24:BA:270(O):U:H5''	24:BA:270(P):C:C4	2.30	0.66
24:BA:2773:C:C2	24:BA:2774:C:C5	2.83	0.66
24:BA:2797:U:H4'	24:BA:2799:A:H5'	1.78	0.66
24:BA:289:A:H2'	24:BA:351:G:H22	1.60	0.66
24:BA:668:G:N3	24:BA:670:A:N6	2.43	0.66
24:BA:808:G:H2'	24:BA:809:G:H8	1.61	0.66
24:BA:79:G:H2'	24:BA:80:G:H8	1.60	0.66
25:BB:67:G:H2'	25:BB:68:C:H6	1.60	0.66
24:BA:1775:U:C2	27:BD:208:LYS:NZ	2.64	0.66
27:BD:24:ILE:CG2	27:BD:25:THR:H	2.00	0.66
27:BD:82:ILE:CD1	27:BD:92:ILE:O	2.43	0.66
29:BF:65:TRP:CZ2	29:BF:71:GLY:O	2.45	0.66
33:BL:131:ALA:HB1	33:BL:136:VAL:HG12	1.75	0.66
24:BA:2566:A:N6	35:BN:28:SER:HB3	2.10	0.66
36:BO:92:GLU:HB2	36:BO:94:GLU:HB3	1.76	0.66
38:BQ:4:LEU:O	38:BQ:5:LYS:C	2.33	0.66
40:BS:65:LYS:HD3	40:BS:75:ILE:HG21	1.77	0.66
41:BT:24:TYR:H	41:BT:24:TYR:HD1	1.37	0.66
41:BT:40:PHE:H	41:BT:40:PHE:HD1	1.43	0.66
41:BT:61:TRP:O	41:BT:62:ILE:C	2.33	0.66
43:BV:5:ALA:HB3	43:BV:105:VAL:O	1.94	0.66
45:BX:8:LYS:C	45:BX:10:GLY:H	1.96	0.66
46:BY:102:LEU:HD22	46:BY:137:ILE:HB	1.77	0.66
37:BP:61:GLY:HA3	46:BY:178:GLU:HG3	1.77	0.66
46:BY:57:ILE:HG23	46:BY:69:THR:C	2.14	0.66
1:AA:1026:G:N7	1:AA:1027:C:C6	2.63	0.66
24:BA:2828:C:C2	24:BA:2829:C:C5	2.83	0.66
1:AA:1502:A:C2	1:AA:1504:G:C4	2.83	0.66
1:AA:482:A:C2	1:AA:483:C:O4'	2.44	0.66
1:AA:689:C:C2	1:AA:690:G:C8	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:175:ARG:O	4:AE:176:GLU:C	2.34	0.66
6:AG:26:CYS:SG	6:AG:26:CYS:O	2.53	0.66
7:AH:14:ARG:HG3	7:AH:14:ARG:O	1.94	0.66
7:AH:53:LEU:H	7:AH:53:LEU:HD23	1.60	0.66
10:AK:86:ILE:HD11	10:AK:136:GLU:OE1	1.95	0.66
11:AL:112:LYS:CG	11:AL:117:HIS:HA	2.26	0.66
12:AM:79:ARG:HH11	12:AM:79:ARG:C	1.99	0.66
12:AM:9:ARG:NH1	12:AM:9:ARG:HB3	2.10	0.66
1:AA:691:G:H22	13:AN:51:LYS:HZ3	1.39	0.66
1:AA:529:G:C6	14:AO:49:ASN:CG	2.68	0.66
15:AP:37:THR:CG2	15:AP:56:LEU:HD22	2.25	0.66
15:AP:82:MET:SD	15:AP:93:ARG:HG3	2.36	0.66
20:AU:31:LEU:N	20:AU:31:LEU:HD12	2.11	0.66
21:AV:18:LYS:HE2	21:AV:22:LEU:HD12	1.77	0.66
51:B4:4:HIS:NE2	51:B4:5:PRO:HB3	2.10	0.66
24:BA:2287:A:H2	52:B5:37:ARG:HH22	1.43	0.66
54:B7:50:LEU:HG	54:B7:51:ALA:N	2.10	0.66
24:BA:1449:A:C2'	24:BA:1449(A):G:O5'	2.44	0.66
24:BA:1460:A:N1	24:BA:1732:A:C6	2.64	0.66
24:BA:1751:C:O4'	24:BA:2860:A:C2	2.48	0.66
24:BA:1857:G:H8	24:BA:1858:G:N7	1.94	0.66
24:BA:2447:G:C6	24:BA:2500:U:C4	2.84	0.66
24:BA:2579:C:C6	24:BA:2579:C:H5''	2.31	0.66
24:BA:265:A:C8	24:BA:265:A:C3'	2.78	0.66
24:BA:2661:G:C2'	24:BA:2662:A:H8	1.95	0.66
24:BA:2847:U:P	40:BS:54:ARG:NH2	2.69	0.66
24:BA:364:C:O5'	24:BA:364:C:H6	1.79	0.66
24:BA:548:A:N6	24:BA:549:G:C2	2.64	0.66
24:BA:755:C:H2'	24:BA:756:C:H6	1.61	0.66
24:BA:728:G:C5'	27:BD:16:MET:SD	2.83	0.66
29:BF:168:ARG:O	29:BF:173:VAL:HG13	1.95	0.66
29:BF:4:VAL:C	29:BF:20:LEU:HD12	2.16	0.66
30:BG:15:VAL:HG23	30:BG:16:ARG:N	2.10	0.66
34:BM:123:TYR:HB2	34:BM:129:PRO:CB	2.25	0.66
35:BN:70:LYS:HG2	35:BN:107:ARG:HH12	1.60	0.66
35:BN:68:GLU:CG	35:BN:76:ALA:O	2.44	0.66
24:BA:636:G:C2	36:BO:75:ILE:HD12	2.30	0.66
24:BA:2840:C:H5''	38:BQ:53:HIS:CD2	2.31	0.66
39:BR:71:ARG:HD3	39:BR:72:ALA:H	1.59	0.66
40:BS:52:ILE:HA	40:BS:66:VAL:HA	1.76	0.66
41:BT:93:LYS:N	42:BU:10:LYS:HE2	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:22:ASP:HA	43:BV:75:TYR:CZ	2.31	0.66
44:BW:42:ALA:O	44:BW:46:ALA:CB	2.44	0.66
44:BW:73:ARG:NH1	44:BW:74:PRO:O	2.28	0.66
45:BX:86:ARG:C	45:BX:91:GLU:HG2	2.16	0.66
46:BY:116:VAL:HG21	46:BY:145:GLU:CG	2.25	0.66
46:BY:151:HIS:HA	46:BY:170:THR:CA	2.24	0.66
25:BB:105:G:H4'	46:BY:32:HIS:ND1	2.10	0.66
46:BY:45:ASP:HA	46:BY:48:PHE:CD1	2.28	0.66
3:AD:18:G:H4'	3:AD:60:U:H3	1.60	0.66
26:BC:117:PRO:HA	26:BC:120:MET:HB2	1.77	0.66
26:BC:163:PHE:HZ	26:BC:195:ALA:CB	2.08	0.66
1:AA:1056:U:O2'	5:AF:195:VAL:O	2.13	0.66
1:AA:1363:A:H5''	1:AA:1364:U:OP1	1.95	0.66
1:AA:307:C:C4	1:AA:308:C:H5	2.12	0.66
1:AA:685:G:N2	1:AA:686:U:O4	2.29	0.66
5:AF:12:LEU:CD1	16:AQ:57:ARG:HG3	2.23	0.66
6:AG:92:VAL:O	6:AG:96:LEU:HD12	1.96	0.66
9:AJ:105:VAL:HG12	9:AJ:109:ASN:HD21	1.61	0.66
1:AA:933:G:OP2	9:AJ:3:ARG:HG2	1.94	0.66
9:AJ:6:ARG:N	9:AJ:6:ARG:NH1	2.43	0.66
10:AK:29:SER:HB3	10:AK:32:LYS:CE	2.25	0.66
11:AL:27:THR:HG22	11:AL:30:GLY:H	1.61	0.66
14:AO:39:VAL:CB	14:AO:57:LYS:HD2	2.23	0.66
15:AP:14:ARG:H	15:AP:44:ARG:CZ	2.08	0.66
18:AS:58:TYR:C	18:AS:58:TYR:CD1	2.69	0.66
1:AA:279:A:P	19:AT:95:TYR:HH	2.19	0.66
22:AW:63:ILE:HG22	22:AW:64:ASP:N	2.11	0.66
49:B2:4:LEU:HD23	49:B2:5:LYS:N	2.10	0.66
52:B5:11:LEU:HD12	52:B5:11:LEU:O	1.95	0.66
54:B7:3:LYS:CG	54:B7:4:MET:H	2.08	0.66
24:BA:242:G:C5'	54:B7:62:LEU:HD11	2.26	0.66
55:B8:9:ARG:HG2	55:B8:14:CYS:O	1.96	0.66
24:BA:1024:G:O6	24:BA:1134:G:N9	2.29	0.66
24:BA:1089:G:O2'	24:BA:1103:A:H2	1.79	0.66
24:BA:1326:U:H6	24:BA:1326:U:OP2	1.78	0.66
24:BA:1475:G:N3	24:BA:1475:G:H2'	2.11	0.66
24:BA:1510:A:H3'	24:BA:1511:A:H8	1.55	0.66
24:BA:1530:G:H22	24:BA:1541:U:C2'	2.07	0.66
24:BA:1614:A:N6	43:BV:92:ARG:O	2.29	0.66
24:BA:1669:A:O2'	24:BA:1670:C:OP1	2.13	0.66
24:BA:1798:U:N3	24:BA:1819:A:C2	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1842:G:H2'	24:BA:1843:C:H6	1.60	0.66
24:BA:1952:A:C2	35:BN:22:ILE:HG23	2.30	0.66
24:BA:2018:G:C6	24:BA:2019:A:C2	2.84	0.66
24:BA:220:G:C6	24:BA:428:A:OP2	2.49	0.66
24:BA:2329:G:N1	24:BA:2386:C:N4	2.21	0.66
24:BA:2801:A:H2	24:BA:2895:U:HO2'	1.44	0.66
24:BA:411:G:C2	24:BA:2408:U:N3	2.63	0.66
24:BA:617:G:C8	24:BA:618:G:N7	2.64	0.66
24:BA:902:C:H2'	24:BA:903:C:C6	2.31	0.66
25:BB:75:G:H4'	46:BY:36:LYS:HZ1	1.60	0.66
27:BD:16:MET:O	27:BD:19:ALA:CB	2.43	0.66
27:BD:7:LYS:HD3	27:BD:25:THR:HB	1.77	0.66
29:BF:78:ILE:CD1	29:BF:79:GLY:N	2.59	0.66
31:BH:126:PRO:HG2	31:BH:132:ARG:HH22	1.59	0.66
31:BH:26:VAL:HG13	31:BH:76:VAL:HG13	1.78	0.66
31:BH:24:VAL:HG11	31:BH:72:ILE:HD12	1.77	0.66
24:BA:558:G:H5''	34:BM:109:LYS:HD3	1.76	0.66
35:BN:25:LEU:O	35:BN:26:LYS:O	2.14	0.66
36:BO:114:ILE:HG12	36:BO:123:LEU:CD1	2.25	0.66
37:BP:46:GLN:O	37:BP:49:ALA:CB	2.43	0.66
37:BP:77:LYS:CB	37:BP:78:PRO:HD3	2.26	0.66
38:BQ:26:LYS:NZ	38:BQ:70:LEU:HA	2.10	0.66
38:BQ:61:HIS:O	38:BQ:64:ARG:HD2	1.96	0.66
39:BR:49:VAL:HG21	39:BR:80:LEU:CG	2.26	0.66
41:BT:32:PHE:CD1	41:BT:32:PHE:N	2.63	0.66
42:BU:66:ARG:HE	42:BU:95:LEU:HD12	1.59	0.66
46:BY:50:GLN:NE2	46:BY:50:GLN:HA	2.10	0.66
47:BZ:62:LEU:O	47:BZ:62:LEU:HD23	1.96	0.66
32:BK:93:THR:HG22	32:BK:96:ASP:H	1.61	0.66
26:BC:214:VAL:HG21	26:BC:224:ILE:HD13	1.77	0.66
26:BC:56:GLN:O	26:BC:58:VAL:HG23	1.95	0.66
24:BA:2175:C:P	26:BC:5:LYS:HG2	2.36	0.66
1:AA:164:U:O2'	1:AA:165:C:H6	1.73	0.66
40:BS:43:GLN:O	40:BS:43:GLN:NE2	2.29	0.66
1:AA:1302:U:C2'	1:AA:1303:C:C5'	2.74	0.66
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.59	0.66
1:AA:247:G:N2	1:AA:282:A:C2	2.59	0.66
1:AA:382:A:C2'	1:AA:383:A:O5'	2.44	0.66
1:AA:643:C:H5'	10:AK:31:PHE:CZ	2.31	0.66
1:AA:684:A:C4'	13:AN:12:ARG:HH12	2.08	0.66
1:AA:684:A:H5''	13:AN:12:ARG:HH22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:777:A:C4	1:AA:778:G:C8	2.84	0.66
1:AA:791:G:N2	1:AA:1497:G:O3'	2.29	0.66
1:AA:939:G:H2'	1:AA:940:C:H6	1.58	0.66
5:AF:110:ASN:ND2	5:AF:144:SER:OG	2.29	0.66
5:AF:11:ARG:HG3	5:AF:16:ARG:HE	1.60	0.66
6:AG:138:TYR:HD2	6:AG:139:ARG:N	1.94	0.66
6:AG:155:LEU:HB2	6:AG:158:ILE:HG12	1.78	0.66
8:AI:47:ARG:HD3	8:AI:57:GLN:CG	2.26	0.66
8:AI:78:GLU:HA	8:AI:81:ILE:HD11	1.76	0.66
9:AJ:69:VAL:CG2	9:AJ:135:VAL:HG22	2.26	0.66
10:AK:118:VAL:C	10:AK:119:LEU:HD13	2.17	0.66
10:AK:114:THR:CG2	10:AK:119:LEU:HD23	2.25	0.66
10:AK:12:ARG:HD2	10:AK:26:VAL:CG2	2.26	0.66
10:AK:61:VAL:CG1	10:AK:62:TYR:H	2.09	0.66
10:AK:70:GLN:OE1	10:AK:72:PRO:HD2	1.95	0.66
12:AM:78:ASN:O	12:AM:79:ARG:C	2.34	0.66
13:AN:19:ALA:HB3	13:AN:82:VAL:HG22	1.78	0.66
15:AP:3:ARG:CZ	30:BG:140:ILE:HB	2.26	0.66
16:AQ:34:TYR:CZ	16:AQ:44:LEU:HD13	2.30	0.66
1:AA:277:C:P	19:AT:68:ARG:HH12	2.19	0.66
20:AU:53:ARG:C	20:AU:55:ARG:H	1.97	0.66
21:AV:31:ILE:O	21:AV:31:ILE:HG22	1.94	0.66
21:AV:47:HIS:O	21:AV:61:TYR:HA	1.96	0.66
50:B3:42:PHE:O	50:B3:61:ARG:NH2	2.28	0.66
50:B3:57:GLU:N	50:B3:61:ARG:CZ	2.58	0.66
24:BA:458:G:H2'	53:B6:40:TRP:CD1	2.31	0.66
55:B8:17:ILE:HD12	55:B8:26:ILE:HB	1.78	0.66
24:BA:1009:A:H8	41:BT:59:ARG:HH21	1.43	0.66
24:BA:1075:C:O2	24:BA:1075:C:H2'	1.95	0.66
24:BA:974(A):C:C2	24:BA:1186:G:N2	2.62	0.66
24:BA:137(A):G:C2	24:BA:142:G:C2	2.84	0.66
24:BA:1478:G:N2	24:BA:1479:G:N3	2.44	0.66
24:BA:1727:U:C4	24:BA:1730:U:N3	2.64	0.66
24:BA:1814:G:C2	24:BA:1815:A:N6	2.64	0.66
24:BA:1909:C:O2'	24:BA:1910:G:H5'	1.94	0.66
24:BA:2536:G:C6	24:BA:2537:U:C4	2.84	0.66
24:BA:2548:G:C8	24:BA:2548:G:H5'	2.29	0.66
24:BA:2636:U:H4'	28:BE:79:ARG:CD	2.25	0.66
24:BA:2663:G:H2'	24:BA:2664:G:O4'	1.95	0.66
24:BA:2714:G:H8	24:BA:2714:G:H5''	1.61	0.66
24:BA:391:G:H5'	24:BA:412:A:H4'	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:693:C:H2'	24:BA:694:U:C6	2.31	0.66
24:BA:75:G:O3'	48:B1:50:ARG:NH1	2.29	0.66
24:BA:789:A:H3'	24:BA:789:A:OP1	1.96	0.66
25:BB:105:G:H4'	46:BY:32:HIS:CE1	2.31	0.66
25:BB:69:G:H5''	25:BB:70:C:OP2	1.96	0.66
28:BE:7:VAL:CG1	28:BE:196:VAL:HG11	2.26	0.66
29:BF:132:VAL:HG22	29:BF:135:LYS:HB2	1.77	0.66
29:BF:146:ALA:HB1	29:BF:148:LEU:CD2	2.26	0.66
29:BF:176:LEU:CG	29:BF:178:PRO:HD2	2.25	0.66
29:BF:37:VAL:O	29:BF:184:TYR:OH	2.13	0.66
30:BG:128:ARG:CZ	30:BG:130:ASN:ND2	2.59	0.66
30:BG:55:LYS:HD3	30:BG:58:GLN:OE1	1.94	0.66
33:BL:78:ILE:HD13	33:BL:131:ALA:HB2	1.77	0.66
33:BL:78:ILE:HD11	33:BL:99:ILE:HD12	1.78	0.66
34:BM:37:LYS:HZ2	34:BM:43:THR:HA	1.61	0.66
34:BM:57:ALA:HA	34:BM:60:ILE:HG13	1.76	0.66
36:BO:127:ALA:O	36:BO:128:HIS:CG	2.49	0.66
36:BO:85:LEU:HB2	36:BO:86:LYS:NZ	2.09	0.66
25:BB:114:G:H1'	39:BR:47:THR:HG21	1.78	0.66
41:BT:89:GLU:CB	42:BU:52:VAL:N	2.53	0.66
43:BV:10:VAL:HG23	43:BV:101:SER:O	1.95	0.66
45:BX:46:LYS:O	45:BX:47:LYS:O	2.14	0.66
46:BY:109:ALA:C	46:BY:144:LEU:HB2	2.17	0.66
3:AD:48:C:N4	3:AD:59:U:O2	2.28	0.66
24:BA:1417:C:N4	24:BA:1581:G:N1	2.19	0.66
1:AA:1002:G:N2	1:AA:1039:C:N3	2.44	0.66
15:AP:40:ASN:OD1	15:AP:42:ALA:HB3	1.95	0.66
1:AA:1075:C:H2'	1:AA:1075:C:O2	1.96	0.66
1:AA:1306:A:H1'	1:AA:1332:A:C6	2.31	0.66
1:AA:1441:G:C2'	1:AA:1460:A:H61	2.09	0.66
1:AA:1499:A:H2'	1:AA:1500:A:H5'	1.78	0.66
1:AA:1536:C:H2'	1:AA:1537:U:H5	1.59	0.66
1:AA:310:G:H2'	1:AA:311:C:C6	2.30	0.66
1:AA:675:A:N3	13:AN:116:HIS:HB2	2.11	0.66
1:AA:961:U:C6	1:AA:983:A:C2	2.83	0.66
4:AE:224:GLN:HG2	4:AE:229:VAL:CG2	2.15	0.66
4:AE:41:ILE:N	4:AE:41:ILE:HD12	2.10	0.66
4:AE:81:VAL:HG12	4:AE:92:TYR:HD1	1.59	0.66
4:AE:91:PRO:HG3	4:AE:155:LEU:N	2.08	0.66
5:AF:44:GLU:HG2	5:AF:52:LEU:HD11	1.77	0.66
6:AG:81:GLU:HG3	6:AG:85:LYS:HD3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:35:GLY:HA3	7:AH:41:VAL:HG13	1.76	0.66
7:AH:80:ILE:CD1	7:AH:91:LEU:HB3	2.26	0.66
10:AK:40:ALA:HB2	10:AK:45:ILE:CG1	2.23	0.66
10:AK:6:ILE:C	10:AK:6:ILE:CD1	2.65	0.66
12:AM:60:ARG:H	12:AM:60:ARG:HH11	1.43	0.66
19:AT:96:GLN:O	19:AT:98:LEU:N	2.29	0.66
20:AU:54:ARG:C	20:AU:55:ARG:HG2	2.16	0.66
22:AW:53:LEU:HA	22:AW:56:MET:HB2	1.77	0.66
22:AW:63:ILE:HD13	22:AW:80:ARG:HB3	1.77	0.66
22:AW:44:ALA:HA	22:AW:92:LEU:HD21	1.77	0.66
48:B1:11:LEU:N	48:B1:11:LEU:HD12	2.11	0.66
48:B1:50:ARG:O	48:B1:53:ALA:HB3	1.96	0.66
49:B2:24:LYS:HA	49:B2:27:GLY:O	1.96	0.66
49:B2:29:ARG:HB2	49:B2:30:ARG:NH1	2.09	0.66
49:B2:6:VAL:HG21	49:B2:35:ARG:NH1	2.11	0.66
52:B5:14:THR:O	52:B5:22:ALA:N	2.29	0.66
24:BA:1024:G:N7	24:BA:1134:G:H1'	2.11	0.66
24:BA:1128:A:N3	24:BA:1128:A:C2'	2.59	0.66
24:BA:115:C:O2'	24:BA:116:C:H5'	1.96	0.66
24:BA:1179:C:H2'	24:BA:1180:C:H6	1.58	0.66
24:BA:990:A:N6	24:BA:1186:G:N3	2.44	0.66
24:BA:1266:G:C2'	24:BA:2012:G:O6	2.44	0.66
24:BA:1272:A:C2	24:BA:1618:A:C2	2.84	0.66
24:BA:1479:G:N2	24:BA:1515:C:N3	2.44	0.66
24:BA:1695:G:H3'	24:BA:1695:G:N3	2.11	0.66
24:BA:1747:G:O2'	24:BA:1748:G:H5'	1.95	0.66
24:BA:1789:A:H3'	24:BA:1790:C:O4'	1.96	0.66
24:BA:234:C:H42	24:BA:430:G:N2	1.94	0.66
24:BA:2376:A:H2'	24:BA:2377:A:O4'	1.96	0.66
24:BA:242:G:C2'	24:BA:243:U:OP2	2.43	0.66
24:BA:566:U:C6	24:BA:567:A:N7	2.63	0.66
24:BA:631:A:N7	24:BA:632:A:C8	2.64	0.66
24:BA:696:G:C2'	24:BA:697:C:O5'	2.43	0.66
24:BA:751:A:H8	24:BA:751:A:O5'	1.78	0.66
24:BA:783:A:H3'	24:BA:783:A:H8	1.60	0.66
24:BA:862:G:C2	24:BA:863:A:H1'	2.31	0.66
24:BA:896:A:N3	24:BA:896:A:H3'	2.11	0.66
24:BA:960:A:H5''	24:BA:961:C:OP1	1.95	0.66
27:BD:82:ILE:HG23	27:BD:83:GLU:N	2.10	0.66
28:BE:143:ASN:ND2	28:BE:143:ASN:N	2.43	0.66
29:BF:140:LEU:O	29:BF:143:ALA:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:97:ASP:O	30:BG:98:ARG:C	2.34	0.66
32:BK:4:ILE:C	32:BK:5:LEU:HD23	2.16	0.66
34:BM:100:GLU:O	34:BM:104:LYS:HG2	1.96	0.66
34:BM:22:THR:HG23	34:BM:25:ARG:HD3	1.77	0.66
36:BO:107:LYS:HE2	36:BO:110:TYR:CB	2.25	0.66
37:BP:6:ARG:HH21	37:BP:9:TYR:N	1.93	0.66
24:BA:871:U:C5'	37:BP:9:TYR:HE2	1.97	0.66
24:BA:2708:G:H1'	38:BQ:71:GLN:NE2	2.09	0.66
41:BT:106:PHE:O	41:BT:108:GLU:N	2.29	0.66
41:BT:59:ARG:O	41:BT:62:ILE:HB	1.95	0.66
42:BU:62:LEU:HD13	42:BU:98:GLU:N	2.11	0.66
43:BV:76:VAL:CG2	43:BV:103:ILE:HA	2.26	0.66
44:BW:72:LYS:O	44:BW:73:ARG:HB2	1.95	0.66
45:BX:47:LYS:CB	45:BX:49:VAL:HG22	2.25	0.66
45:BX:45:VAL:HA	45:BX:57:GLN:CD	2.17	0.66
45:BX:82:PRO:HG2	45:BX:83:THR:H	1.61	0.66
46:BY:89:PHE:HB3	46:BY:91:LEU:HD21	1.77	0.66
47:BZ:72:ARG:O	47:BZ:73:GLY:C	2.34	0.66
3:AD:58:A:N3	3:AD:61:C:C6	2.64	0.66
24:BA:2148:G:C2'	24:BA:2149:G:H8	2.09	0.66
24:BA:2175:C:OP1	26:BC:5:LYS:HB3	1.95	0.66
26:BC:75:LEU:HD23	26:BC:77:ILE:HD13	1.78	0.66
26:BC:20:TYR:OH	26:BC:222:VAL:HG21	1.95	0.66
1:AA:1131:G:H1	1:AA:1144:G:H1'	1.62	0.65
1:AA:1347:G:H3'	11:AL:107:ARG:C	2.17	0.65
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.31	0.65
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.62	0.65
1:AA:198:G:C2	1:AA:199:G:C8	2.84	0.65
1:AA:371:G:H2'	1:AA:372:C:H5'	1.73	0.65
1:AA:458:C:N4	1:AA:464:G:C6	2.64	0.65
1:AA:671:G:N3	1:AA:671:G:H2'	2.10	0.65
1:AA:922:G:O2'	1:AA:1398:A:N1	2.29	0.65
1:AA:957:U:H2'	1:AA:959:A:OP2	1.96	0.65
4:AE:155:LEU:HB3	4:AE:159:PRO:HG3	1.77	0.65
4:AE:83:MET:O	4:AE:87:ARG:HG3	1.96	0.65
5:AF:6:HIS:CD2	16:AQ:49:HIS:HB3	2.31	0.65
6:AG:159:ARG:O	6:AG:160:GLN:C	2.33	0.65
9:AJ:109:ASN:O	9:AJ:119:ARG:NH1	2.28	0.65
10:AK:14:ARG:HH12	10:AK:83:ILE:HD13	1.61	0.65
16:AQ:23:ARG:HD3	16:AQ:30:ALA:HB2	1.78	0.65
17:AR:81:LEU:HD23	17:AR:85:LEU:HD13	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:38:SER:O	21:AV:70:LYS:HA	1.95	0.65
22:AW:36:LEU:CD2	22:AW:55:ILE:HG22	2.24	0.65
48:B1:30:LEU:O	48:B1:33:GLN:N	2.29	0.65
48:B1:60:ASN:O	48:B1:64:ARG:CG	2.44	0.65
50:B3:57:GLU:N	50:B3:61:ARG:NE	2.44	0.65
50:B3:71:ARG:O	50:B3:71:ARG:HG2	1.96	0.65
55:B8:9:ARG:CA	55:B8:34:GLN:HE22	2.05	0.65
24:BA:1203:G:O2'	24:BA:1204:A:OP1	2.11	0.65
24:BA:1252:G:H22	41:BT:37:GLU:CG	2.00	0.65
24:BA:1386:C:H2'	24:BA:1387:C:C6	2.30	0.65
24:BA:1517:G:O2'	24:BA:1518:C:H5'	1.97	0.65
24:BA:1864:U:H2'	24:BA:1869:G:C5'	2.22	0.65
1:AA:1407:C:O2'	24:BA:1912:A:N6	2.29	0.65
24:BA:1953:A:C8	24:BA:1953:A:H3'	2.30	0.65
24:BA:1984:G:O2'	24:BA:1985:G:H5'	1.97	0.65
24:BA:411:G:N3	24:BA:2408:U:N3	2.43	0.65
24:BA:2071:A:H2	24:BA:2441:C:N3	1.93	0.65
24:BA:2581:G:H4'	24:BA:2582:G:C8	2.31	0.65
24:BA:2594:C:O2'	24:BA:2595:G:H5'	1.96	0.65
24:BA:2626:C:O5'	24:BA:2626:C:C6	2.49	0.65
24:BA:182:A:H1'	24:BA:433:C:O2'	1.96	0.65
24:BA:72:U:H5'	44:BW:5:TYR:HH	1.61	0.65
24:BA:71:A:N3	24:BA:73:A:C6	2.64	0.65
24:BA:566:U:H1'	24:BA:809:G:OP1	1.96	0.65
24:BA:861:A:C6	24:BA:917:A:C5	2.84	0.65
24:BA:819:A:H2	24:BA:943:U:O2	1.78	0.65
24:BA:1657:C:C5'	28:BE:133:LYS:HA	2.26	0.65
28:BE:133:LYS:O	28:BE:137:HIS:ND1	2.29	0.65
29:BF:154:VAL:CG1	29:BF:191:ARG:HB3	2.21	0.65
29:BF:66:PRO:O	29:BF:68:LYS:N	2.29	0.65
30:BG:53:LEU:O	30:BG:68:PRO:HB2	1.97	0.65
30:BG:71:THR:HG23	30:BG:88:ILE:HG12	1.78	0.65
31:BH:7:LEU:CA	31:BH:52:VAL:HG13	2.26	0.65
31:BH:85:LYS:HZ3	31:BH:141:VAL:HG12	1.60	0.65
35:BN:19:ILE:CG2	35:BN:43:VAL:HA	2.26	0.65
24:BA:1665:A:H1'	35:BN:1:MET:CG	2.26	0.65
37:BP:6:ARG:HA	37:BP:44:ALA:HB1	1.77	0.65
39:BR:69:VAL:O	39:BR:72:ALA:HB3	1.95	0.65
24:BA:2875:C:H4'	40:BS:3:ARG:HB2	1.77	0.65
41:BT:108:GLU:O	41:BT:111:GLU:HG2	1.96	0.65
41:BT:94:ASN:O	41:BT:97:ASP:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:78:LYS:HZ2	42:BU:84:LYS:CG	2.09	0.65
45:BX:9:LYS:HB2	45:BX:9:LYS:HZ3	1.61	0.65
47:BZ:76:GLY:O	47:BZ:78:TYR:HD1	1.79	0.65
32:BK:82:ARG:O	32:BK:83:ALA:HB2	1.95	0.65
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.11	0.65
1:AA:1084:G:H5''	1:AA:1086:U:C4	2.31	0.65
1:AA:1278:U:C4'	1:AA:1279:A:O4'	2.40	0.65
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.78	0.65
1:AA:410:G:C1'	1:AA:432:A:H61	2.08	0.65
1:AA:594:G:H2'	1:AA:595:G:O4'	1.96	0.65
1:AA:620:C:H2'	1:AA:621:A:O4'	1.96	0.65
1:AA:714:G:O2'	1:AA:715:A:H5'	1.95	0.65
1:AA:720:C:C5	1:AA:721:G:H2'	2.30	0.65
1:AA:880:C:O2'	1:AA:881:G:H5'	1.96	0.65
2:AC:60:U:H2'	2:AC:60:U:O2	1.96	0.65
4:AE:75:LYS:O	4:AE:77:ALA:N	2.30	0.65
5:AF:53:ALA:CB	5:AF:115:LEU:HD21	2.27	0.65
6:AG:15:GLU:CD	6:AG:59:ARG:HH21	1.99	0.65
6:AG:19:LEU:H	6:AG:33:MET:CE	2.02	0.65
6:AG:8:VAL:O	6:AG:11:LEU:N	2.28	0.65
8:AI:87:ARG:HG2	8:AI:87:ARG:HH11	1.61	0.65
8:AI:95:GLU:H	8:AI:96:PRO:HD3	1.60	0.65
9:AJ:111:ARG:CZ	9:AJ:122:HIS:HB3	2.26	0.65
9:AJ:14:PRO:HG3	9:AJ:21:VAL:CG1	2.26	0.65
9:AJ:78:ARG:HG3	9:AJ:80:VAL:HG23	1.76	0.65
10:AK:126:LYS:HD2	10:AK:127:LEU:N	2.10	0.65
10:AK:48:TYR:CA	10:AK:61:VAL:HG22	2.26	0.65
11:AL:40:LEU:C	11:AL:42:ARG:H	1.97	0.65
15:AP:13:LYS:HB3	15:AP:17:VAL:CB	2.26	0.65
1:AA:474:G:P	18:AS:81:ARG:HA	2.37	0.65
21:AV:45:VAL:CG2	21:AV:67:VAL:HG21	2.21	0.65
48:B1:27:LEU:HD21	48:B1:48:LEU:C	2.16	0.65
49:B2:31:LEU:HD22	49:B2:32:GLN:OE1	1.95	0.65
50:B3:64:GLY:O	50:B3:68:ARG:CZ	2.44	0.65
51:B4:17:ASP:N	51:B4:17:ASP:OD2	2.25	0.65
53:B6:48:LYS:O	53:B6:49:ARG:HB2	1.95	0.65
24:BA:1045:A:H1'	24:BA:1047:G:C8	2.32	0.65
24:BA:1406:U:C2	24:BA:1407:C:C5	2.84	0.65
24:BA:1476:C:H42	24:BA:1516:U:C2'	2.08	0.65
24:BA:1527:G:H8	24:BA:1527:G:H3'	1.60	0.65
24:BA:1550:C:H2'	24:BA:1551:C:H6	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:14:A:N6	24:BA:15:G:C2	2.63	0.65
24:BA:1630:G:H2'	24:BA:1630(A):C:C6	2.30	0.65
24:BA:1631:A:N6	24:BA:1683:C:H5'	2.12	0.65
24:BA:1672:C:C2'	24:BA:1673:U:H5''	2.25	0.65
24:BA:1785:A:H2'	24:BA:1786:A:N7	2.11	0.65
24:BA:1832:C:N4	24:BA:1833:U:C4	2.64	0.65
24:BA:1941:C:H2'	24:BA:1942:C:O5'	1.95	0.65
24:BA:2320:A:H5'	24:BA:2321:G:C5	2.32	0.65
24:BA:2393:A:H2'	24:BA:2394:C:C4'	2.26	0.65
24:BA:2499:C:C4	24:BA:2500:U:C2	2.84	0.65
24:BA:1457:A:N1	24:BA:2703:C:N4	2.44	0.65
24:BA:507:A:H5'	24:BA:509:C:O4'	1.96	0.65
24:BA:908:C:H2'	24:BA:909:A:H5'	1.78	0.65
25:BB:115:G:H4'	39:BR:50:SER:CB	2.26	0.65
25:BB:27:C:C4	25:BB:28:C:H1'	2.30	0.65
25:BB:61:G:C6	25:BB:62:C:N4	2.64	0.65
28:BE:175:VAL:HG23	28:BE:177:PRO:HD3	1.77	0.65
28:BE:8:LYS:HB3	28:BE:24:THR:CB	2.26	0.65
29:BF:132:VAL:CG2	29:BF:135:LYS:HB2	2.26	0.65
24:BA:2305:A:O2'	30:BG:154:GLY:HA2	1.96	0.65
30:BG:26:GLN:HE21	30:BG:31:VAL:HG13	1.61	0.65
30:BG:8:LYS:HE2	30:BG:100:TRP:HD1	1.59	0.65
31:BH:149:ARG:O	31:BH:153:LYS:HB3	1.96	0.65
31:BH:24:VAL:HG21	31:BH:72:ILE:HG21	1.78	0.65
33:BL:107:ILE:O	33:BL:110:GLN:HB3	1.97	0.65
33:BL:40:ALA:O	33:BL:43:ALA:HB3	1.95	0.65
35:BN:112:MET:HA	35:BN:115:VAL:HG23	1.78	0.65
35:BN:9:GLU:HB3	35:BN:17:ARG:CG	2.25	0.65
36:BO:114:ILE:CG2	36:BO:123:LEU:HD21	2.25	0.65
38:BQ:117:VAL:HG13	38:BQ:117:VAL:O	1.96	0.65
39:BR:49:VAL:HG22	39:BR:50:SER:N	2.10	0.65
39:BR:10:ARG:HH21	39:BR:91:PRO:HA	1.60	0.65
41:BT:108:GLU:C	41:BT:110:VAL:N	2.46	0.65
41:BT:34:LYS:O	41:BT:38:THR:OG1	2.14	0.65
41:BT:55:ARG:HA	41:BT:58:ARG:NE	2.11	0.65
45:BX:37:VAL:HG22	45:BX:39:VAL:CG2	2.26	0.65
45:BX:37:VAL:HG22	45:BX:39:VAL:HG23	1.77	0.65
45:BX:98:VAL:O	45:BX:100:ALA:O	2.13	0.65
46:BY:29:TYR:CD2	46:BY:89:PHE:HE2	2.14	0.65
46:BY:4:ARG:HD3	46:BY:38:TYR:C	2.15	0.65
26:BC:200:LYS:HG2	26:BC:200:LYS:O	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:64:LEU:CD2	26:BC:191:ALA:HB1	2.25	0.65
1:AA:1003:G:H21	1:AA:1005:A:H5'	1.61	0.65
1:AA:159:G:N1	1:AA:163:C:N4	2.44	0.65
1:AA:1268:A:C2	1:AA:1311:G:N2	2.64	0.65
1:AA:1360:A:N3	1:AA:1360:A:H2'	2.10	0.65
1:AA:266:G:H2'	19:AT:67:LYS:HZ2	1.60	0.65
1:AA:579:G:O5'	1:AA:579:G:H8	1.79	0.65
1:AA:947:G:N2	1:AA:948:C:C2	2.65	0.65
2:AC:10:G:C6	2:AC:26:G:C2	2.85	0.65
2:AC:62:C:H2'	2:AC:63:G:O5'	1.95	0.65
4:AE:115:LEU:CD1	4:AE:145:LEU:HB3	2.09	0.65
4:AE:31:TYR:HE2	4:AE:200:ILE:CG2	2.10	0.65
4:AE:70:PHE:CE2	4:AE:163:PHE:HB3	2.32	0.65
5:AF:108:ASN:HD22	5:AF:111:LEU:CD1	2.09	0.65
6:AG:61:LYS:HE3	6:AG:62:GLN:N	2.11	0.65
6:AG:68:TYR:HE2	6:AG:97:LEU:HB3	1.61	0.65
6:AG:205:GLU:CD	7:AH:100:VAL:H	1.99	0.65
8:AI:34:GLY:HA3	8:AI:68:PRO:CD	2.26	0.65
10:AK:98:LYS:HG2	10:AK:98:LYS:O	1.94	0.65
12:AM:27:ALA:CB	12:AM:85:LEU:HD21	2.26	0.65
14:AO:41:ARG:NH2	14:AO:57:LYS:NZ	2.41	0.65
19:AT:104:LYS:HD3	19:AT:105:ALA:CB	2.27	0.65
19:AT:5:VAL:HG13	19:AT:59:ILE:C	2.14	0.65
20:AU:34:TYR:CD1	20:AU:35:ARG:HG3	2.32	0.65
20:AU:69:THR:O	20:AU:70:ILE:C	2.35	0.65
21:AV:30:LEU:CD1	21:AV:50:ALA:HB2	2.16	0.65
48:B1:14:VAL:HG13	48:B1:15:GLU:N	2.10	0.65
51:B4:37:LYS:O	51:B4:38:ALA:O	2.13	0.65
53:B6:43:THR:O	53:B6:46:VAL:HB	1.96	0.65
54:B7:6:THR:C	54:B7:8:LYS:N	2.44	0.65
24:BA:1316:U:H2'	24:BA:1317:A:H8	1.58	0.65
24:BA:1321:A:C2	24:BA:1322:A:O4'	2.50	0.65
24:BA:1445:C:C2	24:BA:1466:G:N2	2.64	0.65
24:BA:1471:A:C6	24:BA:1473:G:N7	2.64	0.65
24:BA:1707:G:H2'	24:BA:1708:C:C6	2.31	0.65
24:BA:1770:G:C4	24:BA:1771:C:C5	2.85	0.65
24:BA:1909:C:C2	24:BA:1922:G:N2	2.65	0.65
24:BA:1925:C:O2	24:BA:1929:G:O6	2.14	0.65
24:BA:2092:U:H4'	24:BA:2225:A:C2	2.31	0.65
24:BA:2244:U:H1'	24:BA:2434:A:N7	2.10	0.65
24:BA:2287:A:O2'	24:BA:2288:A:O5'	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:76:A:H2	24:BA:2431:U:HO2'	1.38	0.65
24:BA:2441:C:O2'	24:BA:2442:C:H5'	1.95	0.65
24:BA:2556:C:O2'	24:BA:2557:G:C5'	2.43	0.65
24:BA:2570:G:C5'	24:BA:2571:C:OP2	2.43	0.65
24:BA:221:A:C8	24:BA:266:G:N7	2.64	0.65
24:BA:374:A:H2'	24:BA:375:C:O4'	1.97	0.65
24:BA:387:U:O2'	24:BA:388:G:C8	2.47	0.65
24:BA:661:C:H4'	36:BO:15:ARG:HA	1.78	0.65
24:BA:878:A:N3	24:BA:879:G:H5''	2.11	0.65
24:BA:955:C:H2'	24:BA:956:G:C5'	2.26	0.65
24:BA:974:G:N3	24:BA:1186:G:C5	2.65	0.65
28:BE:37:ARG:O	28:BE:39:PRO:HD3	1.96	0.65
29:BF:116:ASP:O	29:BF:119:ARG:CD	2.44	0.65
29:BF:44:ARG:O	29:BF:45:ARG:O	2.15	0.65
29:BF:78:ILE:HG12	29:BF:79:GLY:H	1.61	0.65
30:BG:43:LEU:HD12	30:BG:90:LEU:H	1.61	0.65
33:BL:34:ILE:O	33:BL:38:VAL:CB	2.39	0.65
34:BM:107:LEU:HD23	34:BM:107:LEU:C	2.17	0.65
34:BM:75:TYR:HD1	34:BM:75:TYR:H	1.44	0.65
35:BN:77:ILE:HD11	40:BS:65:LYS:NZ	2.12	0.65
35:BN:60:ALA:O	35:BN:83:ALA:CB	2.43	0.65
35:BN:9:GLU:N	35:BN:9:GLU:CD	2.49	0.65
36:BO:76:LYS:HA	36:BO:101:VAL:HG11	1.78	0.65
37:BP:112:GLU:C	37:BP:115:MET:HB3	2.17	0.65
37:BP:16:ARG:HG2	37:BP:73:PRO:HD2	1.77	0.65
40:BS:31:SER:OG	40:BS:91:ARG:HD2	1.96	0.65
45:BX:46:LYS:HB3	45:BX:46:LYS:HZ3	1.60	0.65
45:BX:56:PRO:O	45:BX:57:GLN:HG2	1.96	0.65
45:BX:12:THR:HG21	45:BX:71:LYS:C	2.16	0.65
46:BY:144:LEU:HA	46:BY:174:VAL:HG11	1.77	0.65
24:BA:2132:U:C2	24:BA:2133:G:H5''	2.31	0.65
26:BC:114:VAL:HG21	26:BC:153:ILE:HG12	1.79	0.65
14:AO:102:ARG:HE	14:AO:109:GLY:HA2	1.60	0.65
1:AA:342:C:O2'	1:AA:343:U:H5'	1.95	0.65
1:AA:1200:C:C5'	1:AA:1202:G:OP1	2.44	0.65
1:AA:1255:G:O2'	1:AA:1258:G:H1'	1.97	0.65
1:AA:1322:C:H5''	1:AA:1323:G:OP1	1.96	0.65
1:AA:520:A:N6	1:AA:529:G:H21	1.94	0.65
1:AA:982:U:H5''	1:AA:983:A:OP1	1.95	0.65
2:AC:67:C:O2'	2:AC:68:C:H5'	1.97	0.65
4:AE:221:LEU:HD13	4:AE:221:LEU:C	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:68:ILE:HG22	4:AE:161:ALA:O	1.96	0.65
6:AG:20:TYR:CB	6:AG:33:MET:SD	2.85	0.65
6:AG:58:LEU:CD1	6:AG:59:ARG:HD2	2.27	0.65
7:AH:7:GLU:HB3	7:AH:112:LEU:HD11	1.78	0.65
9:AJ:100:ALA:O	9:AJ:104:LEU:HG	1.96	0.65
9:AJ:139:GLU:HA	9:AJ:142:GLU:CD	2.17	0.65
9:AJ:88:PRO:HD2	9:AJ:152:ALA:HA	1.77	0.65
11:AL:82:ALA:O	11:AL:85:LEU:HB3	1.96	0.65
11:AL:89:ASN:O	11:AL:91:ASP:N	2.27	0.65
13:AN:67:ASP:O	13:AN:71:LYS:HG3	1.97	0.65
15:AP:48:LEU:HD21	15:AP:52:GLU:CB	2.22	0.65
15:AP:4:ILE:H	15:AP:4:ILE:HD12	1.60	0.65
17:AR:21:ASP:OD2	17:AR:24:SER:HB3	1.96	0.65
24:BA:95:G:H1'	48:B1:42:ASN:ND2	2.11	0.65
48:B1:52:ILE:O	48:B1:55:LEU:HB2	1.97	0.65
49:B2:9:VAL:CG2	49:B2:10:LYS:N	2.48	0.65
49:B2:50:VAL:HG13	49:B2:53:LEU:HB2	1.77	0.65
54:B7:26:LYS:HB2	54:B7:44:LYS:NZ	2.11	0.65
24:BA:989:G:O5'	24:BA:1157:G:H4'	1.96	0.65
24:BA:1222:C:C4	24:BA:1223:C:C5	2.83	0.65
24:BA:1258:C:H2'	24:BA:1259:G:H8	1.60	0.65
24:BA:1342:A:H4'	24:BA:1343:G:OP1	1.94	0.65
24:BA:1525:G:H2'	24:BA:1526:G:C8	2.32	0.65
24:BA:1526:G:H2'	24:BA:1527:G:N2	2.10	0.65
24:BA:1532:C:H2'	24:BA:1533:C:C6	2.31	0.65
24:BA:1617:C:H2'	24:BA:1617:C:O2	1.95	0.65
24:BA:1668:A:C8	24:BA:1674:G:C6	2.84	0.65
24:BA:1678:G:O2'	24:BA:1679:U:H5'	1.97	0.65
24:BA:1706:U:O2	24:BA:1706:U:H2'	1.97	0.65
24:BA:1769:G:C2	24:BA:1984:G:C5	2.85	0.65
24:BA:1803:A:C3'	27:BD:257:LEU:HD13	2.26	0.65
24:BA:1804:C:O3'	27:BD:250:TRP:HZ2	1.80	0.65
24:BA:204:A:OP1	24:BA:206:U:H1'	1.97	0.65
24:BA:205:G:O2'	24:BA:206:U:OP2	2.15	0.65
24:BA:2209:C:O3'	24:BA:2210:G:H3'	1.97	0.65
24:BA:2395:C:H4'	50:B3:28:LYS:CD	2.27	0.65
24:BA:2415:G:OP1	36:BO:61:ARG:CD	2.43	0.65
24:BA:2543:G:O2'	24:BA:2645:G:N7	2.28	0.65
24:BA:2666:C:H3'	24:BA:2667:C:H5'	1.76	0.65
24:BA:280:C:C2	24:BA:283:A:N7	2.63	0.65
24:BA:284:U:H6	24:BA:284:U:OP2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2858:C:H5'	24:BA:2859:G:OP2	1.96	0.65
24:BA:38:A:H4'	29:BF:94:PRO:HB3	1.79	0.65
24:BA:527:C:H1'	24:BA:528:A:C2	2.32	0.65
24:BA:585:G:O2'	24:BA:586:A:N7	2.24	0.65
24:BA:621:A:H8	24:BA:622:G:H5'	1.48	0.65
24:BA:774:A:H5'	24:BA:778:G:O4'	1.96	0.65
25:BB:97:G:C5	25:BB:98:G:C8	2.85	0.65
27:BD:157:ARG:NH1	27:BD:178:PRO:HG3	2.11	0.65
27:BD:183:ARG:NH2	27:BD:268:ARG:HH11	1.94	0.65
27:BD:148:GLU:HA	27:BD:186:HIS:HE1	1.61	0.65
27:BD:246:PRO:CG	27:BD:252:TRP:HA	2.25	0.65
27:BD:29:PRO:HB3	27:BD:82:ILE:CG2	2.26	0.65
28:BE:136:ARG:CZ	28:BE:137:HIS:HA	2.26	0.65
28:BE:50:GLY:HA3	28:BE:76:ARG:NE	2.11	0.65
28:BE:55:ASN:ND2	28:BE:55:ASN:O	2.29	0.65
29:BF:203:GLN:N	29:BF:203:GLN:OE1	2.29	0.65
31:BH:157:TYR:HB3	31:BH:172:LYS:HB3	1.77	0.65
31:BH:46:GLU:O	31:BH:49:VAL:HG22	1.96	0.65
31:BH:40:GLU:C	31:BH:55:PRO:HG3	2.16	0.65
33:BL:104:VAL:HG13	33:BL:127:ILE:CD1	2.26	0.65
33:BL:23:VAL:HG12	33:BL:34:ILE:HG23	1.77	0.65
35:BN:75:SER:OG	40:BS:77:PRO:HG2	1.96	0.65
36:BO:28:GLY:O	36:BO:29:LYS:HB3	1.94	0.65
38:BQ:56:LYS:O	38:BQ:88:ARG:CZ	2.45	0.65
40:BS:53:ARG:NH2	40:BS:100:TYR:HA	2.12	0.65
41:BT:105:VAL:HG13	41:BT:106:PHE:N	2.10	0.65
41:BT:105:VAL:CA	41:BT:108:GLU:OE1	2.43	0.65
41:BT:32:PHE:N	41:BT:35:ALA:HB2	2.11	0.65
41:BT:47:TYR:O	41:BT:50:ARG:NH1	2.29	0.65
41:BT:98:LEU:HD12	41:BT:105:VAL:HG21	1.78	0.65
42:BU:21:ARG:HG2	42:BU:21:ARG:HH11	1.59	0.65
24:BA:1161:C:O4'	42:BU:8:GLY:HA3	1.96	0.65
44:BW:89:ILE:C	44:BW:92:LEU:HD13	2.17	0.65
44:BW:8:ILE:N	48:B1:31:ARG:HH12	1.94	0.65
45:BX:9:LYS:HA	45:BX:25:GLY:O	1.95	0.65
46:BY:152:ALA:C	46:BY:155:LEU:HD13	2.17	0.65
46:BY:174:VAL:HG23	46:BY:174:VAL:O	1.96	0.65
46:BY:39:VAL:HG13	46:BY:44:PHE:CE2	2.31	0.65
47:BZ:72:ARG:HB2	47:BZ:78:TYR:HD1	1.62	0.65
32:BK:132:PRO:HD3	32:BK:138:ILE:HG22	1.79	0.65
3:AD:19:G:N2	3:AD:56:C:O2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2162:G:C2'	24:BA:2163:C:H5'	2.26	0.65
24:BA:1498:C:H1'	24:BA:1576:U:C4'	2.27	0.65
1:AA:1253:G:N2	1:AA:1254:C:C2	2.64	0.65
1:AA:1323:G:C6	1:AA:1324:A:N6	2.65	0.65
1:AA:1495:U:O2	1:AA:1495:U:H2'	1.96	0.65
1:AA:1515:C:O2'	1:AA:1516:G:H5'	1.96	0.65
1:AA:173:U:H1'	1:AA:197:A:H2	1.56	0.65
1:AA:522:C:H41	1:AA:523:A:N6	1.94	0.65
1:AA:643:C:HO2'	10:AK:132:GLU:CD	2.00	0.65
1:AA:907:A:C2'	1:AA:908:A:H8	2.10	0.65
4:AE:115:LEU:HB2	4:AE:145:LEU:HD12	1.77	0.65
9:AJ:61:VAL:HG12	9:AJ:124:LEU:CD2	2.26	0.65
10:AK:104:ARG:O	10:AK:106:GLY:N	2.29	0.65
1:AA:642:A:HO2'	10:AK:31:PHE:HE1	1.38	0.65
11:AL:38:GLN:O	11:AL:40:LEU:HG	1.97	0.65
11:AL:50:LEU:CD1	11:AL:56:LEU:HA	2.21	0.65
12:AM:60:ARG:O	12:AM:61:GLU:HB2	1.97	0.65
15:AP:27:LYS:HD2	15:AP:31:LYS:NZ	2.12	0.65
15:AP:92:HIS:CG	15:AP:98:VAL:HG21	2.31	0.65
24:BA:1022:G:C6	24:BA:1139:G:C5	2.84	0.65
24:BA:1069:A:C8	24:BA:1074:G:N7	2.65	0.65
24:BA:1359:A:N1	24:BA:1360:A:C4	2.64	0.65
24:BA:1387:C:H2'	24:BA:1388:G:C8	2.29	0.65
24:BA:1439:A:H2'	24:BA:1440:G:O4'	1.95	0.65
24:BA:1838:C:H2'	24:BA:1898:U:C4	2.30	0.65
24:BA:1936:A:C1'	24:BA:1940:U:N3	2.57	0.65
24:BA:2020:A:OP1	24:BA:2020:A:H4'	1.95	0.65
24:BA:2064:C:H1'	24:BA:2450:A:C6	2.32	0.65
24:BA:2074:U:N3	24:BA:2075:U:H5	1.93	0.65
24:BA:2209:C:O2'	24:BA:2210:G:C3'	2.44	0.65
24:BA:2230:G:N2	24:BA:2231:C:C2	2.65	0.65
24:BA:2396:G:C6	24:BA:2421:G:O6	2.49	0.65
24:BA:2414:G:N3	24:BA:2414:G:C2'	2.56	0.65
24:BA:2497:A:O2'	24:BA:2498:C:OP2	2.15	0.65
24:BA:2521:C:C2'	24:BA:2522:U:C5'	2.55	0.65
24:BA:2729:G:O2'	28:BE:185:LYS:HE3	1.97	0.65
24:BA:2733:A:H2'	24:BA:2734:A:O5'	1.95	0.65
24:BA:2791:C:C2'	24:BA:2792:G:H8	2.07	0.65
24:BA:387:U:O3'	24:BA:388:G:O4'	2.15	0.65
24:BA:459:U:H2'	24:BA:460:A:H8	1.61	0.65
24:BA:642:G:C2	24:BA:644:A:H2	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:662:G:H2'	24:BA:663:G:C8	2.31	0.65
24:BA:668:G:C4	24:BA:670:A:N6	2.64	0.65
24:BA:684:G:O2'	24:BA:788:A:N6	2.29	0.65
24:BA:730:C:C2'	24:BA:731:C:H5'	2.26	0.65
24:BA:731:C:C2'	24:BA:732:C:H5'	2.27	0.65
24:BA:747:U:O2	24:BA:747:U:C2'	2.45	0.65
24:BA:980:A:H2'	24:BA:981:A:O4'	1.95	0.65
25:BB:77:U:H2'	25:BB:78:A:H8	1.62	0.65
25:BB:84:C:C2	25:BB:85:G:C8	2.85	0.65
25:BB:89:G:H2'	25:BB:89(A):A:N7	2.12	0.65
24:BA:1568:G:H5'	27:BD:61:LEU:N	2.11	0.65
29:BF:33:LEU:O	29:BF:37:VAL:HG23	1.95	0.65
29:BF:41:LEU:HD12	29:BF:42:ALA:N	2.11	0.65
30:BG:37:VAL:HB	30:BG:99:MET:SD	2.37	0.65
31:BH:26:VAL:CG1	31:BH:76:VAL:HG13	2.27	0.65
31:BH:7:LEU:HG	31:BH:51:ARG:HH21	1.61	0.65
34:BM:23:LEU:HD23	34:BM:60:ILE:HG22	1.77	0.65
36:BO:117:GLU:HG2	36:BO:118:GLY:N	2.12	0.65
36:BO:54:GLY:HA2	54:B7:12:LYS:HZ2	1.61	0.65
36:BO:78:PRO:HA	36:BO:81:GLN:HB2	1.79	0.65
36:BO:79:ARG:NE	36:BO:83:VAL:HG11	2.09	0.65
37:BP:42:ILE:HD13	37:BP:42:ILE:C	2.17	0.65
37:BP:67:ARG:HB3	37:BP:104:PHE:H	1.61	0.65
37:BP:75:THR:HA	37:BP:91:GLU:CG	2.27	0.65
37:BP:40:ALA:HA	37:BP:98:LYS:HG3	1.77	0.65
24:BA:2882:A:OP1	38:BQ:96:ARG:HG3	1.96	0.65
40:BS:21:GLU:C	40:BS:23:ARG:HG3	2.16	0.65
40:BS:52:ILE:HA	40:BS:66:VAL:CG1	2.26	0.65
24:BA:2848:G:OP2	40:BS:99:LEU:HB2	1.96	0.65
41:BT:98:LEU:N	41:BT:98:LEU:HD22	2.11	0.65
42:BU:3:ALA:HB2	42:BU:44:LYS:HD2	1.79	0.65
43:BV:78:GLU:HG3	43:BV:100:THR:O	1.96	0.65
43:BV:59:VAL:CG1	43:BV:63:ASP:HB3	2.26	0.65
46:BY:104:PHE:CZ	46:BY:120:ILE:HG21	2.32	0.65
32:BK:66:GLU:HA	32:BK:69:LYS:HG2	1.78	0.65
32:BK:83:ALA:HB3	32:BK:88:ILE:HG13	1.77	0.65
26:BC:97:GLU:HG2	26:BC:119:VAL:HB	1.78	0.65
26:BC:192:PHE:HE1	26:BC:196:LEU:CD1	2.08	0.65
32:BK:60:GLU:OE1	32:BK:61:ARG:HD3	1.97	0.65
1:AA:1084:G:H5''	1:AA:1086:U:C5	2.31	0.65
1:AA:648:A:C2	1:AA:649:G:C8	2.85	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:977:A:C4'	1:AA:982:U:O4	2.44	0.65
2:AC:5:G:C2'	2:AC:6:G:O5'	2.44	0.65
3:AD:76:A:C2'	24:BA:2432:A:C1'	2.68	0.65
4:AE:108:ILE:O	4:AE:112:VAL:HG23	1.96	0.65
4:AE:9:GLU:HG3	4:AE:217:ARG:HH21	1.61	0.65
6:AG:145:GLU:HG2	6:AG:184:LYS:HE2	1.78	0.65
6:AG:76:ARG:O	6:AG:79:PHE:HB3	1.96	0.65
9:AJ:111:ARG:HD2	9:AJ:123:GLU:CB	2.19	0.65
9:AJ:72:ARG:HA	9:AJ:96:GLN:NE2	2.11	0.65
10:AK:22:GLU:HA	10:AK:63:LEU:HD11	1.78	0.65
10:AK:89:PRO:CA	10:AK:92:ARG:HH21	2.09	0.65
11:AL:32:ASP:O	11:AL:35:GLU:HB3	1.97	0.65
51:B4:40:LYS:HG2	51:B4:41:PRO:N	2.07	0.65
24:BA:688:U:P	53:B6:2:LYS:HE3	2.36	0.65
54:B7:26:LYS:HZ3	54:B7:43:GLN:HA	1.60	0.65
24:BA:242:G:C3'	54:B7:4:MET:SD	2.82	0.65
55:B8:19:ARG:HG3	55:B8:22:ARG:O	1.97	0.65
24:BA:1173:G:H1'	24:BA:1177:A:H61	1.62	0.65
24:BA:1176:G:H5''	24:BA:1177:A:N7	2.12	0.65
24:BA:1179:C:O2'	24:BA:1180:C:O5'	2.15	0.65
24:BA:1352:U:O2	24:BA:1352:U:C2'	2.45	0.65
24:BA:1372:U:H2'	24:BA:1373:A:C5'	2.27	0.65
24:BA:1729:A:C8	24:BA:1730:U:O4'	2.48	0.65
24:BA:1912:A:N1	24:BA:1919:A:N9	2.44	0.65
24:BA:1992:G:H4'	24:BA:1993:U:C4	2.32	0.65
24:BA:2027:G:N2	24:BA:2028:U:H1'	2.11	0.65
24:BA:241:A:H1'	24:BA:243:U:N1	2.11	0.65
24:BA:197:A:H61	24:BA:248:G:H22	1.24	0.65
24:BA:2606:C:C6	24:BA:2606:C:H5'	2.23	0.65
24:BA:311:A:N1	24:BA:328:U:O4	2.29	0.65
24:BA:38:A:H2'	24:BA:39:C:H6	1.62	0.65
25:BB:12:C:C5	47:BZ:74:ARG:O	2.50	0.65
27:BD:5:LYS:HA	27:BD:28:GLU:CA	2.27	0.65
28:BE:120:TRP:C	28:BE:120:TRP:CD1	2.68	0.65
29:BF:12:LEU:HD22	29:BF:142:TRP:HH2	1.58	0.65
29:BF:197:ASP:O	29:BF:198:ALA:C	2.34	0.65
29:BF:6:VAL:HG23	29:BF:6:VAL:O	1.95	0.65
30:BG:68:PRO:HG3	30:BG:72:ARG:NH1	2.09	0.65
31:BH:41:MET:HE1	31:BH:68:THR:CG2	2.26	0.65
33:BL:18:THR:CA	33:BL:38:VAL:HG21	2.26	0.65
33:BL:61:ALA:C	33:BL:63:ARG:N	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1006:C:C2	34:BM:106:MET:HG2	2.32	0.65
34:BM:112:LEU:O	34:BM:113:GLY:C	2.31	0.65
34:BM:127:ASP:O	34:BM:130:HIS:HB2	1.96	0.65
34:BM:17:ASP:HB3	34:BM:21:LYS:HE3	1.79	0.65
35:BN:3:GLN:CD	35:BN:33:ALA:HB3	2.16	0.65
38:BQ:49:ASP:O	38:BQ:52:ILE:HG22	1.97	0.65
38:BQ:26:LYS:HZ1	38:BQ:70:LEU:HA	1.62	0.65
39:BR:11:LYS:HZ3	39:BR:11:LYS:CB	2.09	0.65
40:BS:111:ARG:HA	40:BS:114:LEU:CB	2.27	0.65
40:BS:26:ASP:CG	40:BS:27:THR:N	2.47	0.65
40:BS:56:GLY:O	40:BS:61:PHE:HA	1.97	0.65
40:BS:28:VAL:HA	40:BS:93:ARG:O	1.96	0.65
45:BX:8:LYS:HE3	45:BX:28:LYS:HD2	1.78	0.65
32:BK:128:LEU:CD1	32:BK:129:THR:H	2.09	0.65
3:AD:21:A:N6	3:AD:48:C:C6	2.65	0.65
24:BA:1579:A:N7	24:BA:1580:A:N3	2.45	0.65
1:AA:1031:G:H2'	1:AA:1032:A:O4'	1.96	0.65
1:AA:1204:A:C2	5:AF:195:VAL:HG21	2.32	0.65
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.31	0.65
1:AA:1492:A:H3'	1:AA:1493:A:O4'	1.97	0.65
1:AA:294:U:C2	1:AA:295:C:C5	2.85	0.65
1:AA:501:C:H2'	1:AA:502:G:H8	1.60	0.65
1:AA:302:G:C2'	1:AA:556:C:H5''	2.25	0.65
1:AA:562:C:O2	14:AO:15:ARG:CB	2.44	0.65
1:AA:829:G:O2'	1:AA:830:G:H5'	1.97	0.65
4:AE:164:VAL:HG22	4:AE:165:VAL:N	2.12	0.65
5:AF:179:ARG:NE	5:AF:206:GLU:OE1	2.30	0.65
5:AF:22:TRP:CH2	5:AF:32:LEU:HB2	2.32	0.65
6:AG:19:LEU:HA	6:AG:21:LEU:HD12	1.78	0.65
6:AG:20:TYR:CB	6:AG:27:TYR:HA	2.20	0.65
6:AG:78:LEU:HD21	6:AG:96:LEU:CB	2.27	0.65
7:AH:9:LYS:CB	7:AH:33:VAL:HB	2.19	0.65
8:AI:75:LEU:HD22	8:AI:79:LEU:CD2	2.27	0.65
9:AJ:104:LEU:O	9:AJ:105:VAL:C	2.34	0.65
9:AJ:140:ASP:HA	9:AJ:143:ARG:NH2	2.12	0.65
11:AL:97:LYS:O	11:AL:100:GLY:HA3	1.96	0.65
11:AL:9:ARG:CD	11:AL:14:VAL:HG13	2.26	0.65
17:AR:32:LEU:HD23	17:AR:32:LEU:H	1.62	0.65
17:AR:71:GLN:N	17:AR:78:TYR:HD1	1.95	0.65
20:AU:45:SER:CB	20:AU:51:LEU:HD11	2.26	0.65
21:AV:32:LYS:HB3	21:AV:50:ALA:HB3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:7:VAL:HG22	48:B1:31:ARG:CZ	2.26	0.65
48:B1:60:ASN:O	48:B1:64:ARG:CB	2.45	0.65
55:B8:11:CYS:N	55:B8:32:HIS:NE2	2.44	0.65
24:BA:84:A:H1'	24:BA:103:A:H62	1.59	0.65
24:BA:1140:C:H4'	24:BA:1142(A):A:N1	2.12	0.65
24:BA:119:A:HO2'	24:BA:120:U:P	2.20	0.65
24:BA:1635:G:C8	24:BA:1635:G:O5'	2.49	0.65
24:BA:1707:G:C4	24:BA:1756:G:C2	2.85	0.65
24:BA:2020:A:N7	24:BA:2022:U:N3	2.44	0.65
24:BA:2064:C:C1'	24:BA:2450:A:H62	2.08	0.65
24:BA:2344:U:O2	24:BA:2344:U:H3'	1.97	0.65
24:BA:2380:C:H2'	24:BA:2381:C:H5'	1.79	0.65
24:BA:2383:G:OP1	54:B7:39:LYS:HD3	1.96	0.65
24:BA:2521:C:C2	24:BA:2522:U:C6	2.84	0.65
24:BA:2582:G:H5'	24:BA:2582:G:C8	2.32	0.65
24:BA:1457:A:C2	24:BA:2703:C:N4	2.65	0.65
24:BA:270(W):G:C8	24:BA:270(X):G:N7	2.64	0.65
24:BA:2725:A:O2'	24:BA:2726:U:H6	1.80	0.65
24:BA:2748:A:C6	24:BA:2757:A:N6	2.65	0.65
24:BA:2824:C:N4	24:BA:2825:C:O2	2.30	0.65
24:BA:343:C:H2'	24:BA:344:G:C5'	2.27	0.65
24:BA:613:U:H5	24:BA:614:U:O2	1.80	0.65
24:BA:67:U:O5'	24:BA:67:U:H6	1.79	0.65
24:BA:820:A:H2	24:BA:943:U:C2'	2.10	0.65
25:BB:62:C:C2	25:BB:63:G:C8	2.85	0.65
27:BD:132:PRO:HD3	27:BD:190:TYR:CZ	2.32	0.65
28:BE:171:GLU:O	28:BE:184:VAL:O	2.13	0.65
28:BE:2:LYS:HG2	28:BE:83:ASP:OD2	1.97	0.65
28:BE:98:PRO:HA	28:BE:172:VAL:HG23	1.77	0.65
29:BF:139:PHE:CZ	29:BF:167:ALA:HB2	2.32	0.65
29:BF:149:ASP:CA	29:BF:172:TRP:HE1	2.10	0.65
29:BF:165:ARG:CB	29:BF:165:ARG:CZ	2.74	0.65
29:BF:20:LEU:N	29:BF:20:LEU:HD23	2.06	0.65
29:BF:70:THR:C	29:BF:72:ARG:N	2.50	0.65
29:BF:50:SER:O	29:BF:92:PRO:HG2	1.96	0.65
15:AP:3:ARG:HD3	30:BG:114:ILE:HB	1.78	0.65
30:BG:47:LYS:HD2	30:BG:49:ASP:H	1.62	0.65
30:BG:74:LYS:CD	30:BG:87:PRO:HB2	2.17	0.65
31:BH:69:ARG:HH21	31:BH:69:ARG:CG	2.09	0.65
32:BK:21:VAL:CG1	32:BK:30:LEU:HD13	2.25	0.65
33:BL:18:THR:HG23	33:BL:38:VAL:HG11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:52:ILE:HD11	33:BL:80:LYS:CE	2.22	0.65
33:BL:88:ALA:C	33:BL:90:LYS:H	1.98	0.65
35:BN:10:VAL:HG22	35:BN:12:ASP:H	1.62	0.65
35:BN:77:ILE:HG12	40:BS:65:LYS:CE	2.21	0.65
24:BA:873:G:H4'	37:BP:65:PHE:CE2	2.31	0.65
39:BR:105:ALA:O	39:BR:108:GLY:N	2.30	0.65
24:BA:533:G:P	41:BT:25:TRP:HB2	2.37	0.65
41:BT:58:ARG:HG3	41:BT:59:ARG:N	2.11	0.65
42:BU:28:GLU:HB2	42:BU:29:PRO:HD3	1.79	0.65
41:BT:94:ASN:HD21	42:BU:6:LYS:CE	2.10	0.65
42:BU:23:GLU:HA	42:BU:93:GLU:HB3	1.79	0.65
43:BV:7:ALA:O	43:BV:102:HIS:HA	1.96	0.65
24:BA:142:G:C4'	44:BW:37:THR:OG1	2.45	0.65
45:BX:2:ARG:C	45:BX:4:LYS:H	1.99	0.65
45:BX:5:MET:HG3	45:BX:8:LYS:NZ	2.11	0.65
46:BY:17:ALA:HA	46:BY:20:ARG:NH2	2.11	0.65
46:BY:10:ARG:CG	46:BY:36:LYS:HD2	2.25	0.65
26:BC:22:ILE:HD13	26:BC:190:ARG:HD3	1.78	0.65
26:BC:67:GLY:HA2	26:BC:158:ALA:O	1.96	0.65
26:BC:83:ILE:HG23	26:BC:87:GLU:OE1	1.95	0.65
1:AA:1039:C:H2'	1:AA:1040:U:H6	1.62	0.65
1:AA:1109:C:C2'	1:AA:1110:A:H8	2.09	0.65
1:AA:1268:A:H2	1:AA:1311:G:N2	1.94	0.65
1:AA:1336:C:H4'	1:AA:1337:G:N3	2.11	0.65
1:AA:169:C:H2'	1:AA:170:U:C6	2.31	0.65
1:AA:394:G:C5	1:AA:395:C:C5	2.84	0.65
1:AA:741:G:H2'	1:AA:742:G:H8	1.62	0.65
1:AA:790:A:H2'	1:AA:791:G:O5'	1.96	0.65
1:AA:986:A:H4'	21:AV:55:LYS:HE3	1.79	0.65
2:AC:10:G:C2	2:AC:11:A:C8	2.85	0.65
2:AC:11:A:H2'	2:AC:12:G:C8	2.30	0.65
2:AC:5:G:O2'	2:AC:6:G:C5'	2.44	0.65
4:AE:61:LEU:HA	4:AE:64:ARG:HH11	1.60	0.65
5:AF:28:GLN:NE2	5:AF:29:TYR:N	2.45	0.65
6:AG:101:LEU:HD12	6:AG:105:VAL:HG23	1.79	0.65
6:AG:20:TYR:HB3	6:AG:33:MET:SD	2.36	0.65
6:AG:20:TYR:O	6:AG:26:CYS:SG	2.55	0.65
7:AH:37:ARG:NH1	7:AH:112:LEU:HA	2.12	0.65
7:AH:95:ALA:HB3	7:AH:96:PRO:HD3	1.78	0.65
8:AI:7:ASN:ND2	8:AI:62:TRP:HD1	1.95	0.65
9:AJ:48:LYS:O	9:AJ:52:GLU:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:103:THR:HG22	11:AL:104:ARG:N	2.11	0.65
13:AN:59:TYR:O	13:AN:60:ALA:C	2.34	0.65
14:AO:9:GLN:O	14:AO:10:LEU:C	2.32	0.65
14:AO:78:GLN:O	14:AO:79:GLU:C	2.34	0.65
1:AA:1226:C:N4	15:AP:104:ARG:HG3	2.12	0.65
15:AP:16:ASP:HA	15:AP:19:LEU:CG	2.26	0.65
15:AP:84:ILE:HD11	15:AP:86:CYS:SG	2.35	0.65
15:AP:91:ARG:HD2	15:AP:98:VAL:HA	1.79	0.65
17:AR:64:ARG:HA	17:AR:67:LEU:CD1	2.27	0.65
48:B1:5:LEU:O	48:B1:9:ARG:HG2	1.97	0.65
49:B2:5:LYS:NZ	49:B2:59:VAL:HG22	2.12	0.65
50:B3:20:ASN:HB2	50:B3:30:GLU:CD	2.17	0.65
24:BA:1013:C:H2'	24:BA:1014:U:C6	2.30	0.65
24:BA:1174:A:H2'	24:BA:1175:U:H5''	1.78	0.65
24:BA:1263:U:N3	24:BA:1264:G:N2	2.44	0.65
24:BA:1368:G:H5''	24:BA:1368:G:H8	1.61	0.65
24:BA:1378:A:N1	24:BA:1380:G:H1'	2.11	0.65
24:BA:1477:A:H4'	24:BA:1478:G:OP2	1.96	0.65
24:BA:1663:C:O2'	24:BA:1664:A:O4'	2.12	0.65
24:BA:1668:A:N6	24:BA:1674:G:N2	2.45	0.65
24:BA:1952:A:C6	24:BA:1953:A:N1	2.65	0.65
24:BA:2026:C:N3	24:BA:2027:G:C8	2.65	0.65
24:BA:2302:G:O2'	24:BA:2303:G:H5'	1.97	0.65
24:BA:2309:A:N6	24:BA:2310:A:N3	2.44	0.65
24:BA:2332:U:C5'	24:BA:2336:A:H61	2.10	0.65
24:BA:2406:U:OP2	24:BA:2411:A:N6	2.29	0.65
24:BA:2597:G:H2'	24:BA:2598:A:C8	2.32	0.65
24:BA:270(Z):U:C2'	24:BA:271(A):C:H5''	2.26	0.65
24:BA:2821:A:OP2	24:BA:2822:G:OP2	2.15	0.65
24:BA:351:G:O2'	24:BA:352:G:OP2	2.15	0.65
24:BA:427:U:H6	24:BA:427:U:O5'	1.80	0.65
24:BA:498:G:C8	24:BA:498:G:O5'	2.50	0.65
24:BA:552:G:O2'	24:BA:553:U:H5'	1.95	0.65
24:BA:586:A:H5'	29:BF:89:VAL:CG2	2.27	0.65
24:BA:621:A:N7	24:BA:622:G:O4'	2.30	0.65
24:BA:774:A:H5'	24:BA:778:G:H4'	1.78	0.65
24:BA:834:C:H1'	24:BA:2358:G:N2	2.12	0.65
24:BA:930:U:O2'	24:BA:931:G:P	2.54	0.65
27:BD:132:PRO:HD3	27:BD:190:TYR:CE1	2.31	0.65
27:BD:181:GLU:HG2	27:BD:268:ARG:NH2	2.11	0.65
28:BE:147:PRO:CD	28:BE:148:GLY:N	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2635:C:O2'	28:BE:79:ARG:HD2	1.97	0.65
29:BF:118:ALA:C	29:BF:122:LYS:HB2	2.16	0.65
29:BF:202:PHE:CD2	29:BF:205:ARG:HD2	2.31	0.65
30:BG:120:LEU:HD22	30:BG:181:ARG:HH21	1.61	0.65
24:BA:2305:A:C2	30:BG:40:ASN:O	2.49	0.65
30:BG:36:LYS:HE3	30:BG:95:ARG:HD3	1.77	0.65
32:BK:5:LEU:HB3	32:BK:8:PRO:HD2	1.79	0.65
33:BL:87:GLY:HA2	33:BL:134:MET:HE2	1.78	0.65
35:BN:63:VAL:HA	35:BN:78:ARG:CG	2.20	0.65
35:BN:68:GLU:CG	35:BN:76:ALA:H	2.10	0.65
36:BO:11:GLY:CA	36:BO:14:LYS:HE3	2.26	0.65
24:BA:811:U:O4	36:BO:22:GLY:HA3	1.96	0.65
36:BO:58:THR:HA	54:B7:13:ARG:HG2	1.77	0.65
40:BS:20:PRO:HA	40:BS:22:PHE:CE2	2.32	0.65
40:BS:80:SER:CB	40:BS:81:PRO:HD3	2.25	0.65
41:BT:42:ALA:O	41:BT:45:TYR:N	2.30	0.65
41:BT:89:GLU:O	41:BT:90:VAL:HG23	1.96	0.65
42:BU:61:VAL:C	42:BU:62:LEU:HD23	2.17	0.65
44:BW:23:GLU:OE2	44:BW:24:GLY:N	2.30	0.65
44:BW:57:LEU:HB3	44:BW:78:LYS:HG2	1.78	0.65
46:BY:73:GLN:O	46:BY:87:ASP:CB	2.43	0.65
26:BC:160:ARG:O	26:BC:161:ILE:HD13	1.97	0.65
26:BC:185:LEU:N	26:BC:185:LEU:HD23	2.10	0.65
24:BA:1583:A:H4'	24:BA:1585:C:C6	2.32	0.65
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.31	0.65
1:AA:1126:U:H2'	1:AA:1127:G:C8	2.32	0.65
1:AA:1409:C:O2'	1:AA:1410:G:H5'	1.97	0.65
1:AA:182:U:C2'	1:AA:183:G:H5'	2.25	0.65
1:AA:318:G:O2'	1:AA:319:G:H5'	1.97	0.65
1:AA:416:G:H2'	1:AA:417:C:H6	1.58	0.65
1:AA:493:G:O2'	1:AA:494:U:C5	2.49	0.65
1:AA:591:U:C4	1:AA:649:G:C6	2.84	0.65
1:AA:650:G:O2'	1:AA:651:C:H5'	1.96	0.65
1:AA:668:G:H1'	17:AR:46:HIS:HE2	1.61	0.65
1:AA:22:G:O4'	1:AA:885:G:H1'	1.97	0.65
4:AE:12:GLU:C	4:AE:14:GLY:H	1.97	0.65
6:AG:101:LEU:HB3	6:AG:138:TYR:O	1.96	0.65
6:AG:170:VAL:HG21	6:AG:176:LEU:HB3	1.76	0.65
9:AJ:139:GLU:O	9:AJ:142:GLU:HB2	1.96	0.65
10:AK:129:VAL:HG22	10:AK:130:GLY:N	2.10	0.65
10:AK:5:PRO:O	10:AK:8:ASP:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:48:TYR:HA	10:AK:61:VAL:HG22	1.79	0.65
11:AL:89:ASN:C	11:AL:91:ASP:H	1.99	0.65
12:AM:56:HIS:O	12:AM:58:ASP:N	2.30	0.65
15:AP:12:ASN:O	15:AP:44:ARG:NE	2.22	0.65
15:AP:60:VAL:HA	15:AP:63:THR:CG2	2.27	0.65
51:B4:37:LYS:HD2	51:B4:37:LYS:H	1.60	0.65
52:B5:27:LYS:HG2	52:B5:29:ASN:ND2	2.05	0.65
52:B5:49:HIS:O	52:B5:50:ARG:HB2	1.96	0.65
53:B6:17:GLY:C	53:B6:21:ARG:HH12	2.00	0.65
24:BA:1142:U:H6	24:BA:1142(A):A:C8	2.15	0.65
24:BA:1910:G:C4	24:BA:1921:G:C2	2.85	0.65
24:BA:2026:C:C2	24:BA:2027:G:C8	2.85	0.65
24:BA:2458:G:C8	24:BA:2490:G:O6	2.50	0.65
24:BA:2573:C:OP1	24:BA:2574:G:H5''	1.97	0.65
24:BA:25:U:C2	24:BA:26:G:C8	2.84	0.65
24:BA:2657:A:C2	24:BA:2665:A:C4	2.85	0.65
24:BA:270(V):G:H2'	24:BA:270(W):G:H8	1.61	0.65
24:BA:2732:G:H3'	24:BA:2733:A:C5'	2.27	0.65
24:BA:58:G:H2'	24:BA:73:A:H2	1.61	0.65
24:BA:616:A:H1'	29:BF:180:GLY:CA	2.26	0.65
24:BA:60:G:O2'	24:BA:61:G:P	2.55	0.65
24:BA:642:G:H3'	24:BA:642:G:C8	2.31	0.65
24:BA:684:G:H1'	24:BA:687:C:H41	1.61	0.65
24:BA:810:U:OP1	24:BA:1253:A:N7	2.30	0.65
24:BA:865:C:HO2'	24:BA:866:A:H8	0.74	0.65
25:BB:61:G:H2'	25:BB:62:C:C5	2.32	0.65
27:BD:231:HIS:O	27:BD:233:HIS:N	2.30	0.65
27:BD:36:PRO:O	27:BD:64:ILE:HG21	1.96	0.65
27:BD:95:LEU:HB2	27:BD:105:ILE:CG2	2.27	0.65
28:BE:14:ILE:HD12	28:BE:14:ILE:N	2.12	0.65
28:BE:196:VAL:C	28:BE:197:ILE:HD12	2.16	0.65
29:BF:168:ARG:CB	29:BF:168:ARG:HH21	2.03	0.65
29:BF:41:LEU:O	29:BF:44:ARG:NH2	2.29	0.65
30:BG:8:LYS:HB2	30:BG:104:GLU:HB2	1.77	0.65
30:BG:74:LYS:O	30:BG:75:LYS:HB2	1.95	0.65
30:BG:36:LYS:CG	30:BG:95:ARG:HD3	2.27	0.65
31:BH:71:LEU:HD23	31:BH:72:ILE:HD13	1.77	0.65
33:BL:115:LEU:HD12	33:BL:118:THR:HA	1.78	0.65
34:BM:12:ARG:HH12	34:BM:48:MET:HE3	1.62	0.65
35:BN:111:PHE:O	35:BN:112:MET:C	2.33	0.65
35:BN:112:MET:HA	35:BN:115:VAL:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:77:ILE:CD1	40:BS:65:LYS:NZ	2.60	0.65
35:BN:79:PHE:CD2	40:BS:75:ILE:HD11	2.32	0.65
36:BO:78:PRO:HG2	36:BO:117:GLU:CD	2.17	0.65
37:BP:26:TYR:CD1	37:BP:27:VAL:N	2.58	0.65
37:BP:6:ARG:HG2	37:BP:7:MET:N	2.12	0.65
39:BR:17:ARG:CZ	39:BR:25:ARG:HH21	2.10	0.65
39:BR:3:ARG:O	39:BR:7:TYR:CB	2.44	0.65
39:BR:51:ALA:CB	39:BR:73:LEU:HG	2.27	0.65
39:BR:49:VAL:HG11	39:BR:80:LEU:CB	2.26	0.65
24:BA:2848:G:O5'	40:BS:99:LEU:HD23	1.97	0.65
42:BU:49:THR:HG22	42:BU:53:GLU:HG2	1.79	0.65
24:BA:336:C:H4'	45:BX:67:LEU:HD23	1.79	0.65
46:BY:100:VAL:O	46:BY:102:LEU:HD23	1.96	0.65
26:BC:134:ARG:HH11	26:BC:136:LEU:CG	2.09	0.65
24:BA:2247:A:O2'	24:BA:2248:C:H5'	1.97	0.65
1:AA:1263:C:C2	1:AA:1264:C:C5	2.85	0.65
1:AA:1337:G:H5''	1:AA:1338:G:OP1	1.97	0.65
1:AA:1365:G:H2'	1:AA:1366:C:H6	1.62	0.65
1:AA:1374:A:C5	1:AA:1375:A:N7	2.65	0.65
1:AA:191(F):U:N3	22:AW:105:SER:HB2	2.12	0.65
1:AA:293:G:N3	1:AA:293:G:H2'	2.12	0.65
1:AA:496:A:H4'	1:AA:497:U:OP1	1.96	0.65
1:AA:570:G:C5'	1:AA:820:U:H1'	2.21	0.65
1:AA:872:A:O2'	1:AA:873:A:C5'	2.45	0.65
4:AE:25:ASN:OD1	4:AE:192:SER:O	2.15	0.65
4:AE:193:ASP:O	4:AE:194:PRO:O	2.15	0.65
4:AE:16:HIS:NE2	4:AE:213:LEU:HD13	2.12	0.65
4:AE:84:GLU:HG2	4:AE:233:SER:HB3	1.79	0.65
9:AJ:108:ALA:HA	9:AJ:111:ARG:HG3	1.77	0.65
10:AK:83:ILE:HB	10:AK:137:VAL:HG22	1.79	0.65
11:AL:97:LYS:HZ2	11:AL:102:LEU:HD13	1.60	0.65
13:AN:101:SER:O	13:AN:103:LEU:CG	2.43	0.65
1:AA:691:G:N2	13:AN:51:LYS:NZ	2.43	0.65
15:AP:36:LYS:HB3	15:AP:59:TYR:CZ	2.31	0.65
16:AQ:12:ARG:O	16:AQ:13:THR:C	2.35	0.65
17:AR:8:LYS:HE2	17:AR:12:ILE:HD11	1.78	0.65
1:AA:392:G:C5'	18:AS:12:LYS:NZ	2.49	0.65
51:B4:36:CYS:H	51:B4:49:CYS:HB3	1.61	0.65
51:B4:9:LYS:N	51:B4:9:LYS:HD2	2.12	0.65
53:B6:43:THR:CA	53:B6:46:VAL:HB	2.27	0.65
24:BA:1025:G:H1'	24:BA:1134:G:C4'	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1024:G:C5	24:BA:1025:G:N7	2.65	0.65
24:BA:1351:C:H4'	24:BA:1571:A:O2'	1.97	0.65
24:BA:1475:G:H2'	24:BA:1476:C:O5'	1.97	0.65
24:BA:1429:G:C5	24:BA:1568:G:C6	2.85	0.65
24:BA:1708:C:C2'	24:BA:1709:U:C5'	2.76	0.65
24:BA:1777:U:HO2'	24:BA:1778:U:H5'	1.59	0.65
24:BA:2208:U:O2'	24:BA:2217:G:N2	2.29	0.65
24:BA:2468:G:HO2'	24:BA:2469:A:H8	0.72	0.65
24:BA:2590:A:H2'	24:BA:2591:C:C6	2.32	0.65
24:BA:273:G:C4	24:BA:273(A):G:N7	2.65	0.65
24:BA:2880:C:H1'	38:BQ:91:GLN:O	1.95	0.65
24:BA:400:G:N2	50:B3:63:TYR:OH	2.30	0.65
24:BA:80:G:H1'	24:BA:347:A:N6	2.12	0.65
24:BA:880:G:N1	24:BA:881:G:H1'	2.12	0.65
24:BA:956:G:OP1	37:BP:77:LYS:HG2	1.97	0.65
24:BA:996:A:O3'	41:BT:93:LYS:HG2	1.96	0.65
25:BB:75:G:O6	25:BB:102:G:N2	2.30	0.65
27:BD:156:ALA:O	27:BD:158:ALA:N	2.29	0.65
27:BD:33:LEU:HA	27:BD:83:GLU:OE2	1.97	0.65
28:BE:169:ASN:HD22	28:BE:170:LEU:N	1.85	0.65
30:BG:74:LYS:H	30:BG:88:ILE:HD11	1.60	0.65
31:BH:155:SER:HA	31:BH:157:TYR:OH	1.97	0.65
31:BH:42:ARG:O	31:BH:53:GLU:HB2	1.96	0.65
31:BH:74:ASN:ND2	31:BH:75:ALA:N	2.44	0.65
34:BM:17:ASP:HB3	34:BM:21:LYS:HZ1	1.61	0.65
34:BM:57:ALA:HB3	34:BM:124:ALA:HB1	1.79	0.65
34:BM:88:GLU:CB	34:BM:89:LYS:HZ1	2.09	0.65
35:BN:12:ASP:HA	35:BN:97:ARG:NH2	2.12	0.65
24:BA:672:C:C6	36:BO:38:GLN:OE1	2.50	0.65
24:BA:804:A:N7	36:BO:39:LYS:HD2	2.11	0.65
37:BP:122:GLY:C	37:BP:124:LYS:N	2.48	0.65
37:BP:77:LYS:O	37:BP:78:PRO:O	2.14	0.65
41:BT:15:LYS:NZ	41:BT:18:LEU:HG	2.12	0.65
24:BA:578:A:H2	41:BT:34:LYS:HZ1	1.41	0.65
41:BT:93:LYS:NZ	41:BT:93:LYS:CA	2.60	0.65
46:BY:109:ALA:H	46:BY:144:LEU:HD12	1.62	0.65
26:BC:59:ARG:NH1	26:BC:59:ARG:CB	2.60	0.65
1:AA:1006:C:O2	1:AA:1006:C:C2'	2.45	0.65
4:AE:127:ILE:O	4:AE:129:GLU:N	2.29	0.65
1:AA:1063:C:C4	1:AA:1064:G:N7	2.65	0.64
1:AA:148:G:H1	1:AA:174:C:H42	1.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1518:A:O5'	1:AA:1518:A:H8	1.79	0.64
1:AA:130:A:C5	1:AA:264:U:H1'	2.31	0.64
1:AA:297:G:N2	1:AA:300:A:OP2	2.30	0.64
1:AA:297:G:N2	1:AA:299:G:O5'	2.30	0.64
1:AA:658:G:O2'	1:AA:659:U:H5'	1.97	0.64
1:AA:697:U:H2'	1:AA:698:G:C8	2.31	0.64
1:AA:769:G:O2'	1:AA:770:C:C5'	2.44	0.64
1:AA:842:C:H5'	1:AA:848:C:O2	1.95	0.64
1:AA:923:A:OP1	7:AH:21:ALA:HB2	1.97	0.64
1:AA:961:U:H2'	1:AA:962:C:C5'	2.26	0.64
1:AA:983:A:H3'	1:AA:983:A:N3	2.12	0.64
5:AF:147:LYS:HB2	5:AF:203:PHE:HD2	1.58	0.64
5:AF:193:TYR:N	5:AF:193:TYR:CD2	2.65	0.64
9:AJ:149:ARG:O	9:AJ:151:TYR:N	2.30	0.64
10:AK:110:ALA:HA	10:AK:136:GLU:HB2	1.79	0.64
10:AK:95:VAL:HG13	10:AK:133:LEU:HD11	1.79	0.64
10:AK:47:GLY:O	10:AK:61:VAL:CG1	2.42	0.64
11:AL:112:LYS:CD	11:AL:117:HIS:HA	2.27	0.64
1:AA:522:C:OP1	14:AO:120:TYR:HE2	1.80	0.64
14:AO:24:VAL:HG13	14:AO:98:TYR:HE2	1.62	0.64
18:AS:21:VAL:HG22	18:AS:36:ILE:CD1	2.26	0.64
20:AU:66:LEU:HD12	20:AU:67:ALA:H	1.56	0.64
20:AU:81:PHE:O	20:AU:81:PHE:CD1	2.50	0.64
1:AA:1320:C:C5	21:AV:37:ARG:NH1	2.66	0.64
22:AW:21:LYS:HA	22:AW:24:LEU:CD1	2.26	0.64
48:B1:27:LEU:N	48:B1:27:LEU:HD12	2.11	0.64
50:B3:68:ARG:HB2	50:B3:68:ARG:HH11	1.60	0.64
51:B4:48:GLU:N	51:B4:58:LEU:HG	2.12	0.64
54:B7:31:HIS:O	54:B7:32:LEU:HG	1.97	0.64
54:B7:6:THR:O	54:B7:8:LYS:N	2.29	0.64
24:BA:1263:U:C4	24:BA:1264:G:N1	2.64	0.64
24:BA:1341:U:P	24:BA:1397:U:H3	2.19	0.64
24:BA:1407:C:OP2	24:BA:1407:C:H6	1.80	0.64
24:BA:1492:G:C2'	24:BA:1493:C:C4	2.67	0.64
24:BA:14:A:N7	24:BA:15:G:C4	2.66	0.64
24:BA:1517:G:H21	24:BA:1518:C:H1'	1.60	0.64
24:BA:1769:G:HO2'	24:BA:1770:G:H8	1.45	0.64
24:BA:49:A:N6	24:BA:176:G:N7	2.45	0.64
24:BA:2273:A:C2'	24:BA:2274:A:H5'	2.26	0.64
24:BA:231:C:H5''	24:BA:232:G:OP2	1.97	0.64
24:BA:2332:U:C5'	24:BA:2336:A:N6	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2392:A:H2'	24:BA:2393:A:O5'	1.96	0.64
24:BA:2459:A:H2'	24:BA:2460:U:C1'	2.26	0.64
24:BA:2560:C:H2'	24:BA:2560:C:O2	1.97	0.64
24:BA:2570:G:N3	24:BA:2570:G:H2'	2.12	0.64
24:BA:2579:C:C6	24:BA:2579:C:C5'	2.80	0.64
24:BA:2705:A:C8	24:BA:2706:G:N7	2.65	0.64
24:BA:2747:G:H21	24:BA:2748:A:H62	1.45	0.64
24:BA:2748:A:N6	24:BA:2756:U:C2	2.65	0.64
24:BA:448:U:O2'	24:BA:449:A:OP1	2.11	0.64
24:BA:573:G:O2'	24:BA:574:C:O5'	2.13	0.64
24:BA:669:G:N2	24:BA:670:A:C2	2.64	0.64
24:BA:685:A:O2'	24:BA:686:G:OP2	2.12	0.64
24:BA:780:G:H1'	24:BA:785:G:C6	2.32	0.64
24:BA:687:C:O2	24:BA:788:A:P	2.55	0.64
24:BA:911:A:H8	24:BA:2264:C:C1'	2.03	0.64
24:BA:941:A:C2	24:BA:942:G:N3	2.65	0.64
24:BA:975:G:N1	24:BA:976:C:C6	2.66	0.64
27:BD:119:ALA:HA	27:BD:123:ALA:HB2	1.79	0.64
28:BE:145:LYS:H	28:BE:145:LYS:NZ	1.95	0.64
28:BE:4:ILE:HD11	28:BE:50:GLY:HA3	1.78	0.64
28:BE:66:HIS:CG	28:BE:67:PHE:N	2.64	0.64
28:BE:49:LEU:HD13	28:BE:76:ARG:HG3	1.78	0.64
29:BF:38:ARG:O	29:BF:41:LEU:HG	1.96	0.64
30:BG:174:GLU:OE2	30:BG:175:LEU:HG	1.97	0.64
31:BH:118:PRO:CD	31:BH:121:ILE:HG21	2.27	0.64
31:BH:149:ARG:HD3	31:BH:164:TYR:CD1	2.32	0.64
31:BH:38:SER:H	31:BH:41:MET:HE3	1.62	0.64
31:BH:40:GLU:HG3	31:BH:61:HIS:NE2	2.11	0.64
31:BH:9:ILE:HD13	31:BH:73:ALA:CB	2.27	0.64
31:BH:76:VAL:O	31:BH:77:LYS:C	2.34	0.64
34:BM:42:TRP:O	34:BM:43:THR:OG1	2.14	0.64
35:BN:106:LEU:O	35:BN:109:LYS:HA	1.97	0.64
36:BO:75:ILE:N	36:BO:75:ILE:HD13	2.11	0.64
37:BP:106:VAL:O	37:BP:107:ALA:HB2	1.96	0.64
37:BP:122:GLY:O	37:BP:124:LYS:N	2.30	0.64
37:BP:137:TYR:HD2	37:BP:138:ASP:H	1.41	0.64
40:BS:29:ARG:CA	40:BS:50:ILE:O	2.41	0.64
41:BT:99:ALA:HA	41:BT:106:PHE:HB2	1.79	0.64
42:BU:1:MET:HA	42:BU:44:LYS:HB3	1.77	0.64
42:BU:40:LEU:HA	42:BU:51:VAL:HA	1.77	0.64
24:BA:1322:A:P	43:BV:11:ARG:HH11	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:127:LYS:NZ	46:BY:165:VAL:H	1.95	0.64
46:BY:37:VAL:O	46:BY:38:TYR:HD2	1.80	0.64
32:BK:98:ALA:O	32:BK:102:SER:CB	2.42	0.64
3:AD:18:G:H1'	3:AD:58:A:O4'	1.97	0.64
24:BA:2161:C:H2'	24:BA:2162:G:C8	2.32	0.64
26:BC:38:ASP:OD2	26:BC:178:ALA:HB1	1.97	0.64
24:BA:1583:A:H5'	24:BA:1585:C:C5'	2.27	0.64
26:BC:20:TYR:CE1	26:BC:222:VAL:HG21	2.32	0.64
1:AA:1452:C:H5'	1:AA:1453:G:C2	2.31	0.64
1:AA:1511:G:O2'	1:AA:1512:U:H5'	1.97	0.64
1:AA:23:C:H2'	1:AA:23:C:O2	1.96	0.64
1:AA:278:G:N2	1:AA:279:A:H62	1.94	0.64
1:AA:286:G:H2'	1:AA:287:U:H6	1.61	0.64
1:AA:795:C:O5'	1:AA:795:C:H6	1.81	0.64
1:AA:965:A:O2'	1:AA:966:G:P	2.54	0.64
1:AA:990:C:H2'	1:AA:991:U:C6	2.32	0.64
2:AC:19:G:C2	2:AC:57:A:C2	2.85	0.64
6:AG:98:GLU:O	6:AG:100:ARG:N	2.31	0.64
6:AG:147:ALA:HB1	6:AG:181:MET:O	1.97	0.64
8:AI:75:LEU:O	8:AI:79:LEU:CD2	2.45	0.64
11:AL:78:LYS:HA	11:AL:81:ILE:CD1	2.27	0.64
5:AF:40:ARG:NH2	16:AQ:52:GLN:HG2	2.12	0.64
17:AR:62:GLN:O	17:AR:66:LEU:HD23	1.96	0.64
18:AS:4:ILE:HG12	18:AS:66:PRO:HB3	1.79	0.64
18:AS:53:VAL:HG23	18:AS:54:GLU:N	2.12	0.64
23:AX:10:ARG:O	23:AX:13:ILE:HG22	1.97	0.64
48:B1:3:LYS:HA	48:B1:6:GLU:HG2	1.78	0.64
50:B3:18:CYS:SG	50:B3:19:GLY:N	2.70	0.64
24:BA:1358:G:N1	24:BA:1372:U:OP2	2.27	0.64
24:BA:1441:G:H4'	24:BA:1628:G:OP1	1.97	0.64
24:BA:1545(A):A:OP2	24:BA:1545(A):A:C8	2.50	0.64
24:BA:1609:A:C6	24:BA:1616:A:C2	2.86	0.64
24:BA:1676:A:H2'	24:BA:1677:A:O4'	1.96	0.64
24:BA:1793:C:H42	24:BA:1825:A:H61	1.45	0.64
24:BA:1858:G:C6	24:BA:1883:G:C6	2.85	0.64
24:BA:1908:C:HO2'	24:BA:1909:C:C5'	2.10	0.64
1:AA:1517:G:H1'	24:BA:1920:C:P	2.37	0.64
24:BA:1996:C:H2'	24:BA:1997:G:O5'	1.96	0.64
24:BA:2244:U:H2'	24:BA:2245:U:O5'	1.97	0.64
24:BA:2252:G:H2'	24:BA:2253:G:O4'	1.97	0.64
24:BA:2278:A:N7	47:BZ:14:ARG:HB2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2378:A:H2	24:BA:2379:G:C1'	2.10	0.64
24:BA:258:G:H8	24:BA:258:G:O5'	1.79	0.64
24:BA:265:A:C2	24:BA:281:G:H8	2.15	0.64
24:BA:2692:C:C2'	24:BA:2847:U:O2'	2.45	0.64
24:BA:2776:A:C4	24:BA:2778:A:N7	2.65	0.64
24:BA:236:C:H4'	24:BA:431:U:H1'	1.78	0.64
24:BA:531:C:O4'	24:BA:2035:G:N2	2.31	0.64
24:BA:541:C:C2	24:BA:542:C:C5	2.84	0.64
24:BA:572:A:C6	24:BA:573:G:C2	2.84	0.64
24:BA:611:C:H2'	24:BA:612:G:O4'	1.98	0.64
24:BA:730:C:OP2	27:BD:211:ARG:NH2	2.27	0.64
24:BA:933:A:C2'	24:BA:934:G:H5'	2.26	0.64
24:BA:941:A:C2	24:BA:942:G:C4	2.85	0.64
25:BB:56:G:O2'	25:BB:57:A:H5'	1.97	0.64
27:BD:161:THR:CG2	27:BD:196:VAL:HB	2.25	0.64
24:BA:1824:G:H21	27:BD:253:GLN:HE21	1.43	0.64
27:BD:8:PRO:HD2	27:BD:26:LYS:C	2.17	0.64
24:BA:1816:G:OP1	27:BD:43:ARG:CZ	2.45	0.64
28:BE:114:ALA:HB1	28:BE:118:LYS:HB2	1.78	0.64
28:BE:148:GLY:O	28:BE:149:ARG:HB3	1.98	0.64
28:BE:119:ARG:HD3	28:BE:156:MET:N	2.12	0.64
29:BF:9:ILE:HD11	29:BF:122:LYS:HG2	1.79	0.64
29:BF:203:GLN:CD	29:BF:203:GLN:N	2.50	0.64
24:BA:590:A:C5'	29:BF:95:ARG:HD2	2.27	0.64
30:BG:51:ARG:HH21	30:BG:51:ARG:N	1.94	0.64
31:BH:167:GLU:O	31:BH:169:VAL:HG13	1.97	0.64
32:BK:31:LEU:HD13	32:BK:37:VAL:N	2.13	0.64
33:BL:10:LEU:HD11	33:BL:41:PHE:CE1	2.32	0.64
35:BN:70:LYS:HG2	35:BN:107:ARG:NH1	2.12	0.64
35:BN:85:VAL:O	35:BN:93:PRO:CD	2.42	0.64
35:BN:8:LEU:N	35:BN:8:LEU:HD12	2.09	0.64
36:BO:78:PRO:HG2	36:BO:117:GLU:OE2	1.98	0.64
36:BO:126:VAL:HA	36:BO:146:VAL:N	2.06	0.64
36:BO:91:PHE:CE2	36:BO:99:LEU:HD12	2.32	0.64
37:BP:65:PHE:C	37:BP:66:ILE:HD12	2.17	0.64
38:BQ:39:PRO:O	38:BQ:40:LYS:C	2.36	0.64
39:BR:89:ARG:HG2	39:BR:89:ARG:NH2	2.10	0.64
40:BS:11:GLU:O	40:BS:12:SER:C	2.34	0.64
42:BU:96:ILE:HD12	42:BU:96:ILE:O	1.98	0.64
43:BV:11:ARG:HA	43:BV:100:THR:HA	1.79	0.64
43:BV:26:GLY:N	43:BV:71:VAL:HG13	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:65:LEU:HG	43:BV:68:ARG:CD	2.27	0.64
44:BW:33:LYS:NZ	44:BW:33:LYS:HB2	2.12	0.64
46:BY:122:ARG:CZ	46:BY:170:THR:O	2.44	0.64
26:BC:225:ASN:HD21	26:BC:227:HIS:HB2	1.62	0.64
26:BC:22:ILE:HG23	26:BC:189:ILE:CG2	2.23	0.64
26:BC:33:ALA:HB3	26:BC:39:GLU:OE1	1.97	0.64
26:BC:62:VAL:CG1	26:BC:64:LEU:HD21	2.27	0.64
32:BK:57:ARG:O	32:BK:60:GLU:HB3	1.97	0.64
24:BA:363(B):G:N2	24:BA:363(C):G:C4	2.65	0.64
24:BA:2096:U:H2'	24:BA:2097:C:C6	2.31	0.64
36:BO:149:GLU:CD	36:BO:150:ALA:H	2.00	0.64
1:AA:1138:G:H5''	1:AA:1138:G:N3	2.13	0.64
1:AA:1069:C:H1'	1:AA:1191:A:H2	1.61	0.64
1:AA:1323:G:C4	1:AA:1324:A:N7	2.66	0.64
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.62	0.64
1:AA:1497:G:C4	1:AA:1498:U:H5	2.16	0.64
1:AA:968:A:OP1	1:AA:968:A:O4'	2.15	0.64
2:AC:44:A:H2	2:AC:45:G:H1'	1.62	0.64
6:AG:100:ARG:O	6:AG:103:ASN:HB3	1.97	0.64
6:AG:150:GLU:O	6:AG:152:SER:N	2.30	0.64
6:AG:57:ARG:HD2	6:AG:202:LEU:HD23	1.79	0.64
6:AG:64:LEU:HD22	6:AG:64:LEU:C	2.17	0.64
7:AH:13:ILE:N	7:AH:13:ILE:HD12	2.13	0.64
7:AH:68:GLU:O	7:AH:70:PRO:HD3	1.96	0.64
9:AJ:47:CYS:HA	9:AJ:50:ILE:CD1	2.28	0.64
7:AH:78:HIS:CB	10:AK:107:LEU:HD21	2.27	0.64
10:AK:88:LYS:O	10:AK:90:GLY:N	2.25	0.64
1:AA:1226:C:H5''	15:AP:103:THR:C	2.17	0.64
1:AA:754:C:H1'	17:AR:69:TYR:CD2	2.32	0.64
17:AR:6:GLU:HG2	17:AR:7:GLU:N	2.09	0.64
18:AS:27:LYS:O	18:AS:28:ARG:C	2.33	0.64
18:AS:49:LEU:HD11	18:AS:51:VAL:CG2	2.26	0.64
18:AS:74:LEU:O	18:AS:77:ALA:HB3	1.98	0.64
20:AU:25:THR:HG22	20:AU:42:ARG:HH21	1.57	0.64
48:B1:16:LEU:HD22	48:B1:58:VAL:CG2	2.27	0.64
49:B2:18:ASP:OD1	49:B2:19:GLN:N	2.29	0.64
49:B2:30:ARG:O	49:B2:32:GLN:N	2.28	0.64
52:B5:20:ASN:OD1	52:B5:43:CYS:SG	2.55	0.64
55:B8:19:ARG:HD3	55:B8:22:ARG:HB2	1.79	0.64
24:BA:1344:G:H4'	24:BA:1384:A:C6	2.33	0.64
24:BA:1615:C:C5	24:BA:1617:C:C2	2.84	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1663:C:O3'	24:BA:1664:A:O4'	2.15	0.64
24:BA:2077:A:C4	24:BA:2435:A:C8	2.84	0.64
24:BA:185:U:C2	24:BA:212:G:N2	2.65	0.64
24:BA:2352:A:N7	24:BA:2366:A:C6	2.65	0.64
24:BA:243:U:OP1	54:B7:5:LYS:HG2	1.95	0.64
24:BA:2530:A:C2'	24:BA:2531:A:H5''	2.26	0.64
24:BA:2747:G:N2	24:BA:2754:U:H3	1.95	0.64
24:BA:295:G:C2	24:BA:344:G:H1'	2.32	0.64
24:BA:400:G:C8	24:BA:400:G:H3'	2.32	0.64
24:BA:37:C:H4'	24:BA:451:C:OP1	1.96	0.64
24:BA:464:U:H6	24:BA:464:U:O5'	1.79	0.64
24:BA:636:G:H1	36:BO:75:ILE:HD12	1.61	0.64
24:BA:751:A:N6	24:BA:789:A:H62	1.94	0.64
24:BA:675:A:C8	24:BA:804:A:C2	2.84	0.64
24:BA:812:C:H1'	24:BA:1250:G:H22	1.62	0.64
24:BA:83:G:H1	24:BA:102:G:C2'	2.09	0.64
24:BA:932:G:OP1	24:BA:932:G:H4'	1.98	0.64
24:BA:957:A:C2	24:BA:2459:A:C5'	2.80	0.64
27:BD:244:ARG:O	27:BD:252:TRP:CD1	2.50	0.64
27:BD:46:GLN:O	27:BD:47:GLY:C	2.34	0.64
29:BF:155:LEU:HA	29:BF:174:VAL:HG21	1.75	0.64
29:BF:169:ASN:HD21	29:BF:171:PRO:HG2	1.62	0.64
29:BF:205:ARG:O	29:BF:208:GLY:N	2.30	0.64
24:BA:450:G:OP1	29:BF:52:LYS:HD2	1.98	0.64
29:BF:84:VAL:O	29:BF:86:GLY:N	2.30	0.64
24:BA:2746:U:H5'	31:BH:139:GLN:HA	1.80	0.64
31:BH:40:GLU:O	31:BH:55:PRO:HG3	1.98	0.64
24:BA:1005:C:C6	34:BM:28:THR:HG21	2.32	0.64
34:BM:54:VAL:HG23	34:BM:55:VAL:N	2.11	0.64
35:BN:11:ALA:HB3	35:BN:97:ARG:NE	2.12	0.64
37:BP:32:TYR:CE2	37:BP:108:GLY:N	2.65	0.64
37:BP:128:LYS:O	37:BP:129:THR:HG23	1.97	0.64
40:BS:11:GLU:H	40:BS:11:GLU:CD	2.00	0.64
41:BT:19:LYS:HZ3	41:BT:19:LYS:HB2	1.61	0.64
41:BT:48:ALA:O	41:BT:51:LYS:HB2	1.96	0.64
41:BT:53:ARG:HA	41:BT:56:ASP:OD2	1.97	0.64
46:BY:57:ILE:CG2	46:BY:58:VAL:H	2.10	0.64
32:BK:87:LYS:CA	32:BK:121:LYS:O	2.29	0.64
1:AA:1117:G:OP1	11:AL:104:ARG:NH1	2.31	0.64
1:AA:1278:U:H3'	1:AA:1278:U:H6	1.63	0.64
1:AA:1402:C:C4	1:AA:1403:C:C4	2.85	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.62	0.64
1:AA:20:U:O2'	1:AA:21:G:H5'	1.97	0.64
1:AA:586:C:O2'	1:AA:587:G:H5'	1.98	0.64
1:AA:735:C:O2'	20:AU:75:ILE:CD1	2.46	0.64
1:AA:739:C:C2'	1:AA:740:U:H5'	2.28	0.64
1:AA:776:G:N2	1:AA:802:A:OP2	2.30	0.64
1:AA:917:G:O2'	1:AA:918:A:H5'	1.98	0.64
1:AA:933:G:OP2	9:AJ:3:ARG:CG	2.45	0.64
1:AA:95:G:N2	1:AA:96:G:H1'	2.12	0.64
5:AF:178:LEU:O	5:AF:179:ARG:CB	2.45	0.64
5:AF:182:ILE:HG23	5:AF:203:PHE:CA	2.21	0.64
5:AF:59:ARG:CZ	5:AF:64:VAL:HG22	2.26	0.64
5:AF:84:ILE:CA	5:AF:101:LEU:HD13	2.28	0.64
5:AF:77:ILE:HD13	5:AF:84:ILE:HB	1.79	0.64
7:AH:147:ASP:C	7:AH:150:ARG:HB2	2.18	0.64
7:AH:34:VAL:O	7:AH:41:VAL:HA	1.97	0.64
8:AI:6:VAL:HG13	8:AI:6:VAL:O	1.97	0.64
9:AJ:103:TRP:CZ2	9:AJ:138:LYS:HA	2.31	0.64
10:AK:4:ASP:O	10:AK:5:PRO:C	2.34	0.64
10:AK:64:LYS:CD	10:AK:79:VAL:HG11	2.27	0.64
10:AK:83:ILE:CB	10:AK:137:VAL:HG22	2.27	0.64
14:AO:54:LYS:CD	14:AO:54:LYS:N	2.61	0.64
1:AA:1329:A:H5''	15:AP:29:ARG:CG	2.27	0.64
15:AP:34:LEU:HD23	15:AP:39:ILE:CG1	2.23	0.64
19:AT:98:LEU:HD13	19:AT:102:GLY:O	1.97	0.64
20:AU:72:ARG:O	20:AU:76:LEU:HD23	1.98	0.64
24:BA:94:G:O2'	48:B1:39:LEU:HA	1.97	0.64
50:B3:50:VAL:HG12	50:B3:50:VAL:O	1.97	0.64
24:BA:2285:C:OP2	52:B5:9:LEU:HD21	1.98	0.64
54:B7:17:THR:C	54:B7:19:SER:H	2.00	0.64
24:BA:1023:U:H2'	24:BA:1023:U:O2	1.97	0.64
24:BA:1065:U:C4	24:BA:1066:U:H1'	2.32	0.64
24:BA:1529:A:H8	24:BA:1530:G:N9	1.96	0.64
24:BA:1567:A:N7	27:BD:84:TYR:CZ	2.66	0.64
24:BA:742:G:C5'	24:BA:1675:C:O2'	2.44	0.64
24:BA:1712:C:C2'	24:BA:1716:U:H6	2.10	0.64
24:BA:1775:U:C5	27:BD:208:LYS:CD	2.77	0.64
24:BA:1785:A:H2'	24:BA:1786:A:C5	2.33	0.64
24:BA:1911:U:O2'	24:BA:1912:A:C5'	2.26	0.64
24:BA:1919:A:O5'	24:BA:1919:A:C8	2.51	0.64
24:BA:192:C:OP1	24:BA:2243:U:OP1	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2503:A:O2'	24:BA:2504:U:C5	2.40	0.64
24:BA:2520:C:H2'	24:BA:2521:C:C6	2.28	0.64
24:BA:2648:C:H2'	24:BA:2649:U:H6	1.60	0.64
24:BA:2653:U:H3'	24:BA:2654:A:C8	2.31	0.64
24:BA:2771:C:H2'	24:BA:2772:C:H6	1.60	0.64
24:BA:350:U:O2	24:BA:350:U:H2'	1.97	0.64
24:BA:181:A:H1'	24:BA:435:C:H5'	1.79	0.64
24:BA:475:U:H3	24:BA:479:A:H62	1.44	0.64
24:BA:534:U:H2'	24:BA:535:C:C5	2.32	0.64
24:BA:675:A:H5'	29:BF:67:GLN:HE22	1.61	0.64
24:BA:779:U:C2'	24:BA:780:G:H5'	2.28	0.64
29:BF:181:LEU:O	29:BF:182:ASN:HB3	1.97	0.64
30:BG:170:ARG:CG	30:BG:171:ALA:N	2.60	0.64
30:BG:107:LEU:HD21	30:BG:177:GLY:O	1.98	0.64
30:BG:79:ASN:OD1	30:BG:82:LEU:HD21	1.98	0.64
32:BK:32:PRO:HG2	32:BK:33:ARG:HG2	1.77	0.64
33:BL:104:VAL:O	33:BL:108:ALA:HB2	1.97	0.64
33:BL:88:ALA:O	33:BL:90:LYS:N	2.30	0.64
34:BM:133:GLN:OE1	34:BM:133:GLN:CA	2.46	0.64
34:BM:74:ARG:NH1	34:BM:76:SER:HB2	2.10	0.64
36:BO:85:LEU:N	36:BO:85:LEU:HD12	2.13	0.64
37:BP:34:LEU:CD1	37:BP:67:ARG:NH1	2.51	0.64
40:BS:111:ARG:HH11	40:BS:111:ARG:HB2	1.62	0.64
44:BW:73:ARG:NH1	44:BW:74:PRO:C	2.50	0.64
45:BX:11:ASP:OD1	45:BX:24:VAL:HA	1.98	0.64
45:BX:50:ARG:HG3	45:BX:54:LYS:HD2	1.79	0.64
46:BY:43:GLU:O	46:BY:44:PHE:C	2.34	0.64
24:BA:2178:C:H2'	24:BA:2179:C:H6	1.61	0.64
26:BC:99:ILE:HG12	26:BC:107:TRP:HZ3	1.63	0.64
1:AA:343:U:H2'	1:AA:345:C:H5	1.62	0.64
1:AA:1145:C:H1'	1:AA:1146:A:N7	2.11	0.64
1:AA:323:U:H5	1:AA:324:G:C4	2.16	0.64
1:AA:576:G:N7	1:AA:881:G:O4'	2.30	0.64
1:AA:764:C:C4	1:AA:765:G:O6	2.50	0.64
1:AA:828:A:C2'	1:AA:829:G:O5'	2.45	0.64
1:AA:938:A:H4'	9:AJ:95:ARG:HH12	1.61	0.64
2:AC:17:C:H5'	2:AC:18:G:C5'	2.26	0.64
2:AC:25:C:H2'	2:AC:26:G:C8	2.33	0.64
3:AD:41:G:H2'	3:AD:42:C:O4'	1.96	0.64
4:AE:146:GLN:HE21	4:AE:150:SER:CB	2.08	0.64
6:AG:133:VAL:HG12	6:AG:135:LEU:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:148:VAL:HB	6:AG:181:MET:CE	2.23	0.64
8:AI:14:LEU:CD1	8:AI:18:GLN:HB3	2.28	0.64
8:AI:3:ARG:HG3	8:AI:65:VAL:O	1.97	0.64
13:AN:99:GLN:O	13:AN:102:GLY:N	2.31	0.64
15:AP:15:VAL:HG21	15:AP:39:ILE:HD12	1.80	0.64
17:AR:5:LYS:HZ3	17:AR:5:LYS:HB3	1.63	0.64
19:AT:75:ARG:HH12	19:AT:77:VAL:HA	1.63	0.64
22:AW:66:ALA:O	22:AW:67:ALA:C	2.36	0.64
53:B6:42:LEU:O	53:B6:45:ALA:HB3	1.98	0.64
54:B7:30:ARG:HH21	54:B7:43:GLN:CA	2.11	0.64
24:BA:1083:U:O2'	24:BA:1084:A:H5''	1.97	0.64
24:BA:1204:A:OP2	24:BA:1204:A:C1'	2.46	0.64
24:BA:1331:A:O2'	24:BA:1332:G:C8	2.51	0.64
24:BA:1473:G:O2'	24:BA:1474:C:H5'	1.96	0.64
24:BA:1530:G:N2	24:BA:1541:U:O2'	2.30	0.64
24:BA:1709:U:H6	24:BA:1709:U:H5'	1.62	0.64
24:BA:1803:A:N6	24:BA:1814:G:O2'	2.26	0.64
24:BA:1815:A:H1'	24:BA:1817:G:C4	2.31	0.64
24:BA:192:C:C2'	24:BA:192:C:O2	2.45	0.64
24:BA:1944:U:H1'	24:BA:1955:U:C6	2.33	0.64
24:BA:1961:C:C2'	24:BA:1962:C:H5'	2.27	0.64
24:BA:2031:A:N6	24:BA:2498:C:O2	2.30	0.64
24:BA:2320:A:H5'	24:BA:2321:G:N7	2.12	0.64
24:BA:411:G:H21	24:BA:2408:U:H3	1.45	0.64
24:BA:2409:G:H21	24:BA:2410:G:H1'	1.60	0.64
24:BA:2476:A:C8	24:BA:2477:C:C5	2.86	0.64
24:BA:2554:U:C5	24:BA:2556:C:N3	2.63	0.64
24:BA:390:A:C5'	24:BA:391:G:OP1	2.45	0.64
24:BA:59:U:C3'	24:BA:60:G:H5''	2.26	0.64
24:BA:606:U:O5'	24:BA:606:U:H6	1.80	0.64
24:BA:675:A:C8	24:BA:804:A:H2	2.15	0.64
24:BA:935:C:C2	24:BA:936:C:C5	2.85	0.64
27:BD:96:HIS:NE2	27:BD:102:LYS:HE2	2.12	0.64
28:BE:3:GLY:O	28:BE:197:ILE:HG22	1.97	0.64
28:BE:49:LEU:HD13	28:BE:50:GLY:N	2.06	0.64
30:BG:55:LYS:O	30:BG:59:GLU:HG2	1.96	0.64
31:BH:44:VAL:HG12	31:BH:51:ARG:HB3	1.80	0.64
35:BN:64:ARG:O	35:BN:65:THR:HB	1.98	0.64
25:BB:51:G:H5'	39:BR:60:GLY:HA2	1.79	0.64
40:BS:111:ARG:CA	40:BS:114:LEU:HB3	2.28	0.64
41:BT:99:ALA:HB2	41:BT:106:PHE:CG	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:77:ASP:O	43:BV:102:HIS:O	2.15	0.64
46:BY:106:GLY:O	46:BY:107:THR:C	2.36	0.64
46:BY:17:ALA:HA	46:BY:20:ARG:HH21	1.62	0.64
46:BY:55:HIS:CB	46:BY:101:PRO:HD3	2.27	0.64
47:BZ:17:GLN:CD	47:BZ:18:ALA:N	2.51	0.64
26:BC:134:ARG:HB3	26:BC:134:ARG:HH11	1.60	0.64
26:BC:77:ILE:HD12	26:BC:138:PRO:HG2	1.80	0.64
26:BC:25:ALA:O	26:BC:26:ALA:C	2.36	0.64
1:AA:13:U:H5'	1:AA:14:U:OP2	1.96	0.64
1:AA:222:U:O2'	1:AA:223:U:H5'	1.98	0.64
1:AA:412:A:O2'	1:AA:413:G:H5''	1.98	0.64
1:AA:692:U:O4	13:AN:53:SER:N	2.31	0.64
1:AA:792:A:N3	1:AA:794:A:C6	2.66	0.64
1:AA:89:U:C2	1:AA:90:C:C5	2.85	0.64
2:AC:36:U:C2	2:AC:37:A:C8	2.85	0.64
2:AC:61:C:H2'	2:AC:62:C:H6	1.63	0.64
5:AF:120:VAL:HG21	5:AF:137:ALA:CB	2.27	0.64
5:AF:40:ARG:HG2	5:AF:55:VAL:CG1	2.27	0.64
6:AG:155:LEU:H	6:AG:158:ILE:HG13	1.61	0.64
7:AH:11:ILE:CG2	7:AH:31:LEU:HD22	2.28	0.64
8:AI:16:GLN:HG3	8:AI:17:SER:N	2.12	0.64
9:AJ:149:ARG:HG2	13:AN:59:TYR:OH	1.98	0.64
9:AJ:150:ALA:HB2	13:AN:59:TYR:CD2	2.32	0.64
9:AJ:68:ASN:O	9:AJ:135:VAL:HG13	1.97	0.64
10:AK:6:ILE:HD11	10:AK:85:ARG:HD3	1.80	0.64
2:AC:31:G:H5'	11:AL:127:LYS:O	1.97	0.64
12:AM:52:GLY:H	12:AM:59:SER:CB	2.10	0.64
12:AM:79:ARG:HD3	12:AM:80:LYS:N	2.12	0.64
14:AO:69:TYR:O	14:AO:71:PRO:HD3	1.98	0.64
15:AP:48:LEU:HD22	15:AP:53:VAL:CG2	2.26	0.64
15:AP:23:TYR:CE2	15:AP:70:LEU:HD22	2.32	0.64
15:AP:99:ARG:HH11	15:AP:99:ARG:HG3	1.62	0.64
19:AT:43:LEU:CD1	19:AT:69:LYS:HG3	2.28	0.64
20:AU:22:VAL:HG11	20:AU:42:ARG:O	1.97	0.64
22:AW:84:LEU:O	22:AW:88:VAL:HG23	1.98	0.64
24:BA:2285:C:C5	52:B5:27:LYS:HE2	2.33	0.64
54:B7:23:VAL:HG11	54:B7:46:ARG:HB2	1.78	0.64
24:BA:1022:G:O2'	24:BA:1023:U:OP2	2.15	0.64
24:BA:1079:C:N4	24:BA:1088:A:H5'	2.08	0.64
24:BA:1131:G:N2	34:BM:72:TYR:CZ	2.65	0.64
24:BA:1250:G:O2'	24:BA:1251:C:P	2.56	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1352:U:H1'	24:BA:1570:A:C2	2.32	0.64
24:BA:1378:A:C2	24:BA:1380:G:C1'	2.81	0.64
24:BA:1405:U:C2	24:BA:1406:U:C5	2.86	0.64
24:BA:1542:G:C2'	24:BA:1543:A:C5	2.81	0.64
24:BA:1710:C:C2	24:BA:1711:C:C5	2.85	0.64
24:BA:1792:G:O2'	24:BA:1793:C:H5'	1.96	0.64
24:BA:1797:C:H2'	24:BA:1798:U:C5	2.32	0.64
24:BA:1802:A:H2'	24:BA:1802:A:N3	2.12	0.64
24:BA:1824:G:C2	24:BA:1825:A:H1'	2.33	0.64
24:BA:1859:A:C8	24:BA:1860:G:C8	2.86	0.64
24:BA:200:U:H5	24:BA:201:C:C2	2.15	0.64
24:BA:2059:A:N1	24:BA:2503:A:C6	2.66	0.64
24:BA:2331:G:N2	24:BA:2385:C:C4	2.65	0.64
24:BA:2455:G:H2'	24:BA:2456:C:H6	1.60	0.64
24:BA:2543:G:H2'	24:BA:2544:G:C8	2.32	0.64
24:BA:2653:U:N3	24:BA:2654:A:N6	2.45	0.64
24:BA:2761:G:O2'	24:BA:2762:G:H5'	1.98	0.64
24:BA:2847:U:C5	24:BA:2848:G:N7	2.65	0.64
24:BA:600:G:H5'	29:BF:32:LEU:CD1	2.26	0.64
24:BA:466:A:C2	24:BA:796:C:O4'	2.51	0.64
24:BA:806:C:O5'	24:BA:806:C:H6	1.80	0.64
24:BA:811:U:H3'	24:BA:811:U:H6	1.62	0.64
24:BA:919:G:O2'	24:BA:920:G:H5'	1.97	0.64
25:BB:37:C:N4	25:BB:44:G:H1	1.96	0.64
27:BD:208:LYS:CE	27:BD:211:ARG:HG3	2.28	0.64
27:BD:84:TYR:HA	27:BD:92:ILE:HG22	1.80	0.64
29:BF:36:VAL:CG2	29:BF:183:VAL:HG21	2.28	0.64
29:BF:200:GLU:OE1	29:BF:201:VAL:N	2.30	0.64
29:BF:66:PRO:O	29:BF:67:GLN:C	2.34	0.64
30:BG:144:ILE:CG2	30:BG:145:THR:N	2.60	0.64
34:BM:23:LEU:HG	34:BM:61:ARG:O	1.98	0.64
35:BN:122:LEU:CD1	40:BS:71:GLY:HA2	2.22	0.64
35:BN:79:PHE:HZ	40:BS:103:ARG:HD2	1.62	0.64
36:BO:40:SER:O	36:BO:40:SER:OG	2.15	0.64
37:BP:44:ALA:HA	37:BP:47:ILE:CD1	2.20	0.64
38:BQ:97:VAL:HA	38:BQ:114:VAL:CG2	2.24	0.64
43:BV:88:ARG:HB2	43:BV:94:ASP:CG	2.18	0.64
45:BX:19:LYS:HZ3	45:BX:39:VAL:HG12	1.62	0.64
45:BX:67:LEU:HG	45:BX:67:LEU:O	1.97	0.64
46:BY:1:MET:HA	46:BY:58:VAL:HB	1.79	0.64
46:BY:6:LYS:HA	46:BY:37:VAL:HG13	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:44:PHE:CD2	46:BY:48:PHE:CZ	2.86	0.64
46:BY:60:GLU:O	46:BY:62:PRO:HD3	1.97	0.64
46:BY:77:ASP:HB2	46:BY:84:GLU:HG2	1.80	0.64
47:BZ:12:ASN:HA	47:BZ:14:ARG:CZ	2.28	0.64
24:BA:2133:G:OP2	24:BA:2156:G:H1'	1.97	0.64
24:BA:2173:A:H2'	24:BA:2174:C:C6	2.33	0.64
26:BC:190:ARG:HA	26:BC:193:ILE:HD12	1.79	0.64
24:BA:1498:C:H1'	24:BA:1576:U:H4'	1.78	0.64
24:BA:2186:G:N2	24:BA:2187:G:C5	2.66	0.64
32:BK:116:LEU:HD21	32:BK:119:PRO:HA	1.80	0.64
1:AA:1011:G:C2'	1:AA:1012:U:H5'	2.21	0.64
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.15	0.64
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.10	0.64
1:AA:1197:G:OP1	1:AA:1197:G:H3'	1.96	0.64
1:AA:1320:C:H1'	21:AV:73:GLU:HG3	1.78	0.64
1:AA:1251:A:O4'	1:AA:1370:G:H4'	1.98	0.64
1:AA:1475:G:H2'	1:AA:1476:G:H8	1.61	0.64
1:AA:228:A:C2'	1:AA:229:U:H5'	2.22	0.64
1:AA:243:A:H61	1:AA:282:A:H8	1.44	0.64
1:AA:464:G:H2'	1:AA:465:A:H5''	1.80	0.64
1:AA:656:C:H2'	1:AA:657:G:H5'	1.80	0.64
1:AA:824:C:H2'	1:AA:825:G:H8	1.62	0.64
1:AA:834:C:N4	1:AA:853:G:C6	2.65	0.64
2:AC:19:G:H4'	2:AC:20:U:OP2	1.96	0.64
2:AC:73:A:HO2'	2:AC:74:C:P	2.20	0.64
4:AE:208:ILE:HA	4:AE:211:ILE:HD12	1.80	0.64
4:AE:56:ARG:CZ	4:AE:56:ARG:HB3	2.27	0.64
5:AF:134:ILE:N	5:AF:134:ILE:HD12	2.13	0.64
5:AF:14:ILE:HG22	5:AF:15:THR:CG2	2.23	0.64
9:AJ:113:GLU:OE2	9:AJ:119:ARG:HG3	1.96	0.64
10:AK:44:PHE:CE2	10:AK:109:ILE:HD13	2.29	0.64
15:AP:8:GLU:O	15:AP:10:PRO:HD2	1.96	0.64
1:AA:1228:C:OP1	15:AP:115:LYS:HB3	1.98	0.64
15:AP:90:LEU:HA	15:AP:93:ARG:HB2	1.79	0.64
16:AQ:12:ARG:O	16:AQ:14:PRO:N	2.29	0.64
17:AR:7:GLU:HA	17:AR:10:LYS:CG	2.28	0.64
21:AV:10:PHE:CZ	21:AV:12:ASP:HA	2.32	0.64
22:AW:10:LEU:HD12	22:AW:11:SER:N	2.13	0.64
48:B1:25:ARG:HE	48:B1:28:MET:CE	2.10	0.64
48:B1:27:LEU:HD11	48:B1:52:ILE:HD11	1.80	0.64
49:B2:5:LYS:HZ3	49:B2:57:GLU:HB3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:48:VAL:HG13	52:B5:49:HIS:N	2.13	0.64
24:BA:1022:G:C5	24:BA:1139:G:C6	2.86	0.64
24:BA:1229:G:C6	24:BA:1230:C:C2	2.85	0.64
24:BA:1428:C:O2'	24:BA:1429:G:OP1	2.13	0.64
24:BA:1732:A:OP1	24:BA:1733:G:C5	2.51	0.64
24:BA:1707:G:C2	24:BA:1756:G:N2	2.66	0.64
24:BA:2210:G:C6	27:BD:150:LYS:N	2.64	0.64
24:BA:2307:G:H4'	24:BA:2311:A:C6	2.33	0.64
24:BA:2393:A:C5'	36:BO:56:SER:N	2.58	0.64
24:BA:2574:G:H2'	24:BA:2575:C:O4'	1.97	0.64
24:BA:2791:C:C5	24:BA:2893:G:N7	2.66	0.64
24:BA:2811:G:H2'	24:BA:2812:G:O4'	1.97	0.64
24:BA:364:C:C2	24:BA:365:C:C5	2.86	0.64
24:BA:481:G:O2'	24:BA:482:A:C8	2.51	0.64
24:BA:576:U:C2'	24:BA:577:G:H8	2.05	0.64
24:BA:636:G:H1	36:BO:75:ILE:CD1	2.10	0.64
24:BA:637:A:H4'	24:BA:638:G:C4'	2.27	0.64
24:BA:663:G:H3'	24:BA:664:C:H6	1.61	0.64
24:BA:829:A:H5''	24:BA:830:G:H5''	1.80	0.64
24:BA:847:U:OP1	24:BA:929:G:O6	2.15	0.64
25:BB:80:U:H2'	25:BB:81:G:H8	1.60	0.64
27:BD:10:THR:O	27:BD:11:PRO:C	2.33	0.64
24:BA:1790:C:O2'	27:BD:213:ARG:NH2	2.31	0.64
28:BE:4:ILE:N	28:BE:27:LEU:CD2	2.53	0.64
28:BE:36:ARG:HG3	28:BE:79:ARG:HH11	1.62	0.64
31:BH:103:LEU:CD2	31:BH:113:VAL:HG12	2.27	0.64
31:BH:127:GLU:HB2	31:BH:130:ARG:O	1.98	0.64
31:BH:13:LYS:CE	31:BH:80:SER:HA	2.27	0.64
31:BH:155:SER:OG	31:BH:159:GLU:CG	2.44	0.64
32:BK:2:LYS:HZ2	32:BK:44:LEU:CD1	2.11	0.64
32:BK:31:LEU:HD13	32:BK:36:ALA:C	2.18	0.64
34:BM:120:LEU:HD12	34:BM:121:LYS:H	1.59	0.64
37:BP:77:LYS:HG3	37:BP:87:LYS:HA	1.80	0.64
37:BP:75:THR:HA	37:BP:91:GLU:HG2	1.80	0.64
25:BB:51:G:C5'	39:BR:60:GLY:HA2	2.28	0.64
41:BT:15:LYS:O	41:BT:18:LEU:CB	2.38	0.64
42:BU:51:VAL:O	42:BU:52:VAL:O	2.16	0.64
44:BW:84:ALA:HB3	44:BW:85:PRO:CD	2.25	0.64
47:BZ:46:LYS:HE2	47:BZ:77:ARG:N	2.12	0.64
3:AD:48:C:O2	3:AD:48:C:H2'	1.97	0.64
3:AD:55:U:C2'	3:AD:57:G:N7	2.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:8:ARG:NE	26:BC:12:GLU:HG2	2.13	0.64
24:BA:172:C:H2'	24:BA:173:G:H8	1.63	0.64
51:B4:60:VAL:O	51:B4:60:VAL:HG13	1.98	0.64
13:AN:128:ALA:O	13:AN:129:SER:HB2	1.97	0.64
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.59	0.64
1:AA:122:G:N2	1:AA:123:C:H1'	2.13	0.64
1:AA:1256:A:O3'	1:AA:1257:U:H4'	1.98	0.64
1:AA:1313:U:H5	21:AV:4:SER:CB	2.08	0.64
1:AA:1327:C:H5''	23:AX:20:LYS:CD	2.28	0.64
1:AA:1397:C:O2'	1:AA:1398:A:OP2	2.14	0.64
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.16	0.64
1:AA:130:A:H2	1:AA:263:A:N3	1.95	0.64
1:AA:292:G:OP2	1:AA:293:G:N7	2.31	0.64
1:AA:112:G:H21	1:AA:354:G:H5'	1.62	0.64
1:AA:533:A:C6	1:AA:536:C:C4	2.86	0.64
1:AA:588:G:N7	1:AA:753:A:H2'	2.13	0.64
1:AA:676:A:H2'	1:AA:677:U:H6	1.59	0.64
1:AA:764:C:N4	1:AA:765:G:O6	2.31	0.64
1:AA:951:G:H1'	1:AA:970:C:O2'	1.98	0.64
4:AE:132:LYS:O	4:AE:135:GLN:HB2	1.97	0.64
4:AE:50:GLU:CG	4:AE:200:ILE:O	2.46	0.64
4:AE:84:GLU:CG	4:AE:234:PRO:HD2	2.23	0.64
5:AF:153:VAL:HG23	5:AF:166:GLU:O	1.98	0.64
6:AG:196:LEU:H	6:AG:196:LEU:HD23	1.60	0.64
8:AI:19:LEU:O	8:AI:23:LYS:HB2	1.98	0.64
8:AI:1:MET:HB3	8:AI:67:MET:O	1.98	0.64
15:AP:19:LEU:O	15:AP:25:ILE:HD12	1.97	0.64
19:AT:65:ILE:HG12	19:AT:69:LYS:HD2	1.79	0.64
49:B2:11:SER:H	49:B2:12:PRO:CD	2.11	0.64
49:B2:9:VAL:HG13	49:B2:54:VAL:CA	2.21	0.64
50:B3:58:ARG:HH11	50:B3:58:ARG:CG	2.10	0.64
51:B4:57:VAL:O	51:B4:58:LEU:HB2	1.97	0.64
54:B7:16:ILE:N	54:B7:22:VAL:HG22	2.11	0.64
54:B7:6:THR:O	54:B7:7:HIS:C	2.35	0.64
24:BA:1007:C:C2	24:BA:1008:C:N4	2.66	0.64
24:BA:1060:U:H5''	24:BA:1061:U:N3	2.12	0.64
24:BA:1182:A:H2'	24:BA:1182:A:N3	2.12	0.64
24:BA:1453:A:OP2	24:BA:1453:A:C4'	2.45	0.64
24:BA:1505:C:H2'	24:BA:1505:C:O2	1.97	0.64
24:BA:1351:C:O2'	24:BA:1571:A:H1'	1.98	0.64
24:BA:1703:G:H2'	24:BA:1704:G:C5'	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:781:A:H2	24:BA:1776:G:N2	1.96	0.64
24:BA:1785:A:OP1	24:BA:1982:C:H5'	1.98	0.64
24:BA:1826:G:O2'	24:BA:1971:A:C4'	2.44	0.64
24:BA:2271:G:H5'	47:BZ:20:ARG:HH12	1.63	0.64
24:BA:2499:C:N4	24:BA:2500:U:C2	2.66	0.64
24:BA:2682:U:O2'	28:BE:12:THR:HG23	1.98	0.64
24:BA:2767:C:C2	24:BA:2768:C:H5	2.12	0.64
24:BA:281:G:H22	24:BA:283:A:H5''	1.63	0.64
24:BA:2807:G:N2	24:BA:2892:A:H62	1.92	0.64
24:BA:670:A:H2'	36:BO:41:ARG:NE	2.13	0.64
24:BA:917:A:C2	24:BA:918:A:C2	2.86	0.64
24:BA:989:G:O2'	24:BA:990:A:P	2.56	0.64
25:BB:58:A:C6	25:BB:59:A:N7	2.65	0.64
28:BE:117:MET:SD	28:BE:136:ARG:HD2	2.37	0.64
28:BE:121:ASN:HB3	28:BE:122:PHE:HD1	1.62	0.64
28:BE:129:HIS:CD2	28:BE:129:HIS:N	2.65	0.64
29:BF:133:ASN:O	29:BF:162:LEU:HB3	1.98	0.64
29:BF:156:LEU:O	29:BF:176:LEU:O	2.15	0.64
24:BA:1257:C:O2'	29:BF:84:VAL:HG22	1.97	0.64
30:BG:21:ARG:NH1	30:BG:27:ASN:HA	2.13	0.64
30:BG:31:VAL:N	30:BG:32:PRO:CA	2.61	0.64
31:BH:9:ILE:C	31:BH:50:VAL:HG23	2.18	0.64
33:BL:81:ALA:HB1	33:BL:107:ILE:HD13	1.78	0.64
33:BL:88:ALA:N	33:BL:134:MET:SD	2.71	0.64
34:BM:97:ARG:O	34:BM:100:GLU:N	2.31	0.64
34:BM:27:ALA:O	34:BM:29:LYS:N	2.31	0.64
37:BP:67:ARG:CZ	37:BP:103:MET:HB3	2.27	0.64
24:BA:995:C:O2'	41:BT:57:PHE:CD2	2.49	0.64
41:BT:88:ILE:HB	42:BU:52:VAL:CA	2.28	0.64
43:BV:11:ARG:HB2	43:BV:98:LYS:CE	2.28	0.64
46:BY:142:SER:O	46:BY:144:LEU:HG	1.98	0.64
46:BY:1:MET:N	46:BY:58:VAL:HG11	2.13	0.64
46:BY:29:TYR:CB	46:BY:34:ASN:HD22	2.10	0.64
32:BK:87:LYS:HD2	32:BK:121:LYS:HE2	1.80	0.64
3:AD:64:C:H2'	3:AD:65:U:H6	1.61	0.64
26:BC:190:ARG:CG	26:BC:193:ILE:HD12	2.28	0.64
26:BC:6:ARG:C	26:BC:8:ARG:N	2.48	0.64
26:BC:96:GLY:O	26:BC:100:ILE:HG13	1.97	0.64
24:BA:1579:A:N6	24:BA:1581:G:H21	1.95	0.64
1:AA:1382:C:H2'	1:AA:1383:C:C6	2.33	0.64
25:BB:21:G:H2'	25:BB:22:U:O4'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1209:C:C2'	1:AA:1210:C:H5'	2.27	0.64
1:AA:1213:A:H2'	1:AA:1215:G:N7	2.12	0.64
1:AA:1302:U:O2'	1:AA:1303:C:P	2.56	0.64
1:AA:1372:U:H2'	1:AA:1373:G:C8	2.32	0.64
1:AA:1480:G:H2'	1:AA:1481:U:C5'	2.28	0.64
1:AA:264:U:O2	1:AA:264:U:C2'	2.45	0.64
1:AA:375:U:O3'	18:AS:6:LEU:HD21	1.96	0.64
1:AA:438:G:H5'	6:AG:123:HIS:HD1	1.61	0.64
1:AA:642:A:O2'	10:AK:31:PHE:CE1	2.46	0.64
1:AA:652:U:H1'	1:AA:653:A:C2	2.27	0.64
1:AA:756:C:O2'	1:AA:823:G:H1'	1.98	0.64
1:AA:824:C:H2'	1:AA:825:G:C8	2.33	0.64
1:AA:863:U:O2	1:AA:865:A:OP2	2.16	0.64
1:AA:945:G:C6	1:AA:1337:G:C5	2.86	0.64
6:AG:30:LYS:N	6:AG:34:GLU:HB3	2.13	0.64
8:AI:14:LEU:HD22	8:AI:18:GLN:CD	2.18	0.64
10:AK:101:PRO:O	10:AK:102:ARG:HB2	1.98	0.64
13:AN:92:GLU:O	13:AN:93:GLN:C	2.34	0.64
15:AP:67:GLU:CG	15:AP:68:GLY:N	2.61	0.64
16:AQ:30:ALA:HA	16:AQ:33:VAL:HG11	1.79	0.64
18:AS:53:VAL:HG23	18:AS:54:GLU:H	1.61	0.64
19:AT:27:PHE:O	19:AT:36:ILE:HD13	1.96	0.64
21:AV:45:VAL:HG13	21:AV:64:GLU:N	2.12	0.64
23:AX:6:ARG:HH11	23:AX:15:ARG:NH2	1.95	0.64
49:B2:52:HIS:CE1	49:B2:53:LEU:HD21	2.32	0.64
24:BA:974:G:C4'	24:BA:1187:G:H1'	2.28	0.64
24:BA:942:G:O2'	24:BA:1189:A:C2	2.48	0.64
24:BA:1269:A:O5'	24:BA:1269:A:H8	1.80	0.64
24:BA:1277:G:H2'	24:BA:1278:A:H8	1.62	0.64
24:BA:1471:A:N7	24:BA:1519:G:C6	2.66	0.64
24:BA:1515:C:OP1	24:BA:1515:C:C6	2.51	0.64
24:BA:1637:A:H2'	24:BA:1638:C:C6	2.32	0.64
24:BA:1693:U:O2	24:BA:1693:U:H2'	1.96	0.64
24:BA:1778:U:O4	24:BA:1785:A:C6	2.50	0.64
24:BA:1839:G:N7	24:BA:1927:A:N3	2.46	0.64
24:BA:2033:A:O2'	24:BA:2034:U:OP1	2.14	0.64
24:BA:2263:C:H4'	24:BA:2329:G:H4'	1.80	0.64
24:BA:2371:G:C2	24:BA:2372:G:C5	2.86	0.64
24:BA:2520:C:C5	24:BA:2567:G:C4	2.85	0.64
24:BA:2567:G:H2'	24:BA:2568:C:H6	1.63	0.64
24:BA:2522:U:O2'	24:BA:2647:U:OP1	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2714:G:C6	24:BA:2715:C:C5	2.86	0.64
24:BA:2856:C:C2'	24:BA:2857:G:H5'	2.28	0.64
24:BA:349:G:C2	24:BA:350:U:C4	2.86	0.64
24:BA:477:A:H62	24:BA:502:A:H61	1.46	0.64
24:BA:482:A:N3	24:BA:482:A:C2'	2.52	0.64
24:BA:812:C:H1'	24:BA:1250:G:N2	2.12	0.64
25:BB:14:U:H1'	25:BB:107:U:H1'	1.80	0.64
25:BB:32:C:C2	25:BB:33:G:N7	2.66	0.64
25:BB:64:C:O2'	25:BB:65:C:H5'	1.97	0.64
27:BD:157:ARG:HB3	27:BD:160:GLY:O	1.97	0.64
29:BF:182:ASN:OD1	29:BF:182:ASN:O	2.16	0.64
31:BH:74:ASN:ND2	31:BH:75:ALA:H	1.95	0.64
33:BL:39:LYS:HA	33:BL:42:ASN:HD22	1.61	0.64
34:BM:22:THR:CG2	34:BM:25:ARG:HD3	2.28	0.64
34:BM:57:ALA:CB	34:BM:99:LEU:HD23	2.27	0.64
35:BN:15:GLY:N	35:BN:52:VAL:HG21	2.12	0.64
36:BO:93:GLY:N	36:BO:112:LEU:HD11	2.04	0.64
37:BP:34:LEU:CD2	37:BP:34:LEU:N	2.51	0.64
39:BR:32:LEU:O	39:BR:35:ILE:HG22	1.96	0.64
40:BS:3:ARG:O	40:BS:6:LEU:HD22	1.98	0.64
42:BU:49:THR:CG2	42:BU:50:PRO:HD2	2.28	0.64
42:BU:81:TYR:O	42:BU:82:ARG:CB	2.44	0.64
42:BU:65:GLY:H	42:BU:97:LYS:HE3	1.60	0.64
46:BY:141:VAL:CB	46:BY:150:LEU:HD11	2.28	0.64
46:BY:150:LEU:O	46:BY:171:ILE:CG2	2.46	0.64
46:BY:37:VAL:O	46:BY:38:TYR:CD2	2.51	0.64
46:BY:1:MET:HE1	46:BY:61:LEU:HG	1.79	0.64
46:BY:57:ILE:CG2	46:BY:69:THR:O	2.42	0.64
24:BA:2134:A:N1	24:BA:2135:A:H2	1.96	0.64
1:AA:1005:A:H4'	1:AA:1037:C:O2	1.97	0.64
25:BB:4:C:C2	25:BB:117:G:N2	2.66	0.64
1:AA:1048:G:O4'	1:AA:1215:G:H4'	1.97	0.64
1:AA:1129:C:H4'	1:AA:1130:A:O5'	1.98	0.64
1:AA:1138:G:C3'	1:AA:1138:G:N3	2.61	0.64
1:AA:1200:C:H5''	1:AA:1201:A:O3'	1.97	0.64
1:AA:295:C:H2'	1:AA:296:U:O4'	1.97	0.64
1:AA:382:A:O2'	1:AA:383:A:H5'	1.97	0.64
1:AA:482:A:C2	1:AA:483:C:N1	2.66	0.64
1:AA:47:C:O2'	1:AA:48:C:P	2.56	0.64
1:AA:579:G:C4'	1:AA:728:A:H1'	2.28	0.64
1:AA:7:G:H21	7:AH:121:LYS:CG	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:H42	16:AQ:18:VAL:HB	1.59	0.64
1:AA:998:G:N2	1:AA:998(A):C:H1'	2.13	0.64
4:AE:95:GLN:HG3	4:AE:148:TYR:HB3	1.80	0.64
4:AE:80:ILE:HD13	4:AE:211:ILE:HG22	1.80	0.64
5:AF:28:GLN:NE2	5:AF:29:TYR:H	1.95	0.64
5:AF:38:ARG:HH11	5:AF:38:ARG:CB	2.05	0.64
5:AF:43:LEU:HD21	5:AF:68:VAL:HG21	1.80	0.64
9:AJ:87:VAL:HB	9:AJ:156:TRP:CE3	2.33	0.64
1:AA:878:G:C5'	10:AK:89:PRO:HG2	2.28	0.64
13:AN:88:GLY:C	13:AN:90:GLY:H	2.01	0.64
15:AP:3:ARG:NH2	30:BG:113:ARG:NH2	2.45	0.64
15:AP:54:VAL:HG13	15:AP:58:GLU:OE1	1.98	0.64
16:AQ:14:PRO:C	16:AQ:16:PHE:N	2.49	0.64
1:AA:1216:G:H5''	16:AQ:5:ALA:CB	2.28	0.64
17:AR:42:HIS:CG	17:AR:43:LEU:N	2.66	0.64
18:AS:51:VAL:HG11	18:AS:74:LEU:HD23	1.79	0.64
1:AA:474:G:C5'	18:AS:81:ARG:HE	1.92	0.64
19:AT:59:ILE:CG1	19:AT:60:ILE:N	2.61	0.64
19:AT:88:TYR:CA	19:AT:91:ARG:HH21	2.10	0.64
8:AI:91:VAL:HG13	20:AU:72:ARG:NH2	2.13	0.64
23:AX:20:LYS:HE3	23:AX:21:TYR:CE2	2.33	0.64
49:B2:17:LYS:CA	49:B2:20:LYS:HD3	2.28	0.64
49:B2:29:ARG:O	49:B2:31:LEU:N	2.31	0.64
54:B7:39:LYS:HB3	54:B7:39:LYS:NZ	2.13	0.64
54:B7:54:GLU:HA	54:B7:57:ARG:HB3	1.78	0.64
24:BA:1511:A:C2'	24:BA:1512:G:O5'	2.46	0.64
24:BA:1352:U:H1'	24:BA:1570:A:H2	1.61	0.64
24:BA:1624:G:C6	24:BA:1625:C:N4	2.66	0.64
24:BA:1837:C:N4	24:BA:1899:G:N7	2.45	0.64
24:BA:1953:A:H8	24:BA:1953:A:H3'	1.63	0.64
24:BA:2225:A:H5''	24:BA:2226:C:C5'	2.27	0.64
24:BA:2277:G:C6	24:BA:2278:A:N7	2.65	0.64
24:BA:2307:G:OP2	24:BA:2308:G:O6	2.15	0.64
24:BA:2350:C:C2'	24:BA:2351:G:O5'	2.46	0.64
24:BA:2491:U:C5	24:BA:2492:U:C5'	2.80	0.64
24:BA:2447:G:C4	24:BA:2500:U:C4	2.86	0.64
24:BA:2538:C:H2'	24:BA:2539:C:C6	2.33	0.64
24:BA:2589:A:C2'	24:BA:2590:A:H5'	2.27	0.64
24:BA:2690:C:N4	38:BQ:14:SER:OG	2.31	0.64
24:BA:2747:G:N2	24:BA:2748:A:N6	2.46	0.64
24:BA:625:G:N2	24:BA:653:A:N6	2.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:725:G:N1	24:BA:726:G:N2	2.46	0.64
24:BA:72:U:C4	24:BA:112:U:H1'	2.31	0.64
24:BA:74:A:H8	24:BA:87:C:O2'	1.81	0.64
24:BA:903:C:H2'	24:BA:904:C:C6	2.32	0.64
24:BA:973:A:O4'	24:BA:1188:U:O4	2.16	0.64
24:BA:979:G:H2'	24:BA:982:C:N4	2.13	0.64
27:BD:132:PRO:HG2	27:BD:135:PHE:CD1	2.33	0.64
29:BF:125:LEU:O	29:BF:127:GLU:N	2.31	0.64
30:BG:35:GLU:OE1	30:BG:36:LYS:HB3	1.97	0.64
34:BM:107:LEU:HD12	34:BM:116:LEU:HD23	1.79	0.64
24:BA:603:A:N6	36:BO:103:ALA:O	2.30	0.64
37:BP:56:ARG:O	37:BP:58:PHE:O	2.16	0.64
38:BQ:78:LYS:O	38:BQ:82:GLU:HB3	1.98	0.64
38:BQ:97:VAL:HG22	38:BQ:114:VAL:CG1	2.27	0.64
25:BB:75:G:H5'	46:BY:11:GLU:CG	2.27	0.64
24:BA:2115:G:H2'	24:BA:2117:A:N7	2.13	0.64
24:BA:2140:C:H2'	24:BA:2141:G:H8	1.62	0.64
1:AA:1003:G:C5	1:AA:1004:A:H1'	2.33	0.64
26:BC:71:GLN:OE1	26:BC:72:VAL:HG23	1.97	0.64
1:AA:1066:C:H2'	1:AA:1067:A:C8	2.33	0.63
1:AA:1267:C:C2'	1:AA:1267:C:O2	2.46	0.63
1:AA:107:G:H5'	1:AA:379:C:OP1	1.98	0.63
1:AA:495:A:H1'	1:AA:496:A:N7	2.14	0.63
1:AA:508:C:O2'	1:AA:509:A:H8	1.80	0.63
1:AA:64:G:N2	1:AA:67:C:C4	2.66	0.63
3:AD:76:A:H3'	24:BA:2432:A:C1'	2.28	0.63
3:AD:6:G:H2'	3:AD:7:G:C8	2.33	0.63
4:AE:170:GLU:HB3	4:AE:174:VAL:CG2	2.25	0.63
9:AJ:71:PRO:HG2	9:AJ:96:GLN:HG3	1.79	0.63
10:AK:14:ARG:HD2	10:AK:15:ASN:ND2	2.13	0.63
10:AK:43:GLY:O	10:AK:44:PHE:HB2	1.97	0.63
11:AL:110:GLU:HG2	11:AL:111:ARG:N	2.12	0.63
1:AA:970:C:H42	15:AP:126:LYS:NZ	1.96	0.63
17:AR:85:LEU:HD12	17:AR:85:LEU:N	2.13	0.63
22:AW:49:ALA:HB3	22:AW:99:LEU:CD1	2.27	0.63
50:B3:65:ASP:O	50:B3:69:LYS:CG	2.46	0.63
24:BA:1021:A:C5	24:BA:1023:U:H6	2.16	0.63
24:BA:1267:U:C2'	24:BA:1268:A:C5'	2.72	0.63
24:BA:1322:A:N7	24:BA:1323:U:C5	2.66	0.63
24:BA:1332:G:C6	24:BA:1609:A:C6	2.87	0.63
24:BA:1341:U:O4	24:BA:1395:A:H2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1471:A:P	24:BA:1472:A:H2	2.21	0.63
24:BA:149:A:C6	24:BA:150:C:N3	2.66	0.63
24:BA:1332:G:C5	24:BA:1609:A:N1	2.66	0.63
24:BA:1730:U:H6	24:BA:1730:U:O5'	1.81	0.63
24:BA:2035:G:O2'	24:BA:2036:C:P	2.56	0.63
24:BA:2042:A:H2'	24:BA:2043:C:H5'	1.80	0.63
24:BA:2580:U:C5	24:BA:2581:G:N7	2.66	0.63
24:BA:2710:C:C2'	24:BA:2711:A:H5''	2.27	0.63
24:BA:2792:G:C2	24:BA:2793:G:C5	2.86	0.63
24:BA:283:A:C2'	24:BA:284:U:H5'	2.28	0.63
24:BA:295:G:O2'	24:BA:296:C:H5'	1.97	0.63
24:BA:452:G:H5''	24:BA:453:C:OP2	1.96	0.63
24:BA:733:G:C8	24:BA:733:G:OP2	2.51	0.63
24:BA:975:G:C5	24:BA:990:A:N6	2.66	0.63
25:BB:100:G:C2'	25:BB:101:A:H8	2.10	0.63
25:BB:73:A:HO2'	25:BB:74:U:C5'	2.10	0.63
25:BB:80:U:O2	25:BB:81:G:N7	2.31	0.63
27:BD:133:LEU:O	27:BD:136:ILE:N	2.30	0.63
24:BA:2596:U:C2'	27:BD:242:ARG:NE	2.62	0.63
27:BD:85:ASP:CB	27:BD:87:ASN:ND2	2.57	0.63
28:BE:100:GLU:N	28:BE:172:VAL:HG21	2.04	0.63
28:BE:199:ARG:C	28:BE:200:GLU:CD	2.56	0.63
29:BF:126:VAL:CB	29:BF:197:ASP:HB2	2.28	0.63
29:BF:50:SER:O	29:BF:92:PRO:O	2.16	0.63
30:BG:165:THR:O	30:BG:168:GLU:HB2	1.98	0.63
31:BH:162:ILE:C	31:BH:163:TYR:CD1	2.71	0.63
34:BM:55:VAL:HG11	34:BM:127:ASP:HA	1.79	0.63
34:BM:33:LEU:HD21	34:BM:50:ASP:HB3	1.79	0.63
34:BM:86:PRO:O	34:BM:89:LYS:NZ	2.29	0.63
35:BN:112:MET:O	35:BN:115:VAL:N	2.31	0.63
36:BO:111:ARG:HH21	36:BO:113:LYS:HB2	1.63	0.63
36:BO:122:PRO:O	36:BO:123:LEU:CD2	2.43	0.63
35:BN:76:ALA:HA	40:BS:77:PRO:CD	2.25	0.63
42:BU:25:LEU:HD23	42:BU:28:GLU:CB	2.28	0.63
42:BU:69:LYS:HA	42:BU:92:THR:HB	1.79	0.63
43:BV:24:ILE:HD13	43:BV:36:LEU:CD2	2.28	0.63
44:BW:50:LYS:HG3	44:BW:84:ALA:CB	2.23	0.63
44:BW:9:LEU:CB	44:BW:30:VAL:HG12	2.27	0.63
45:BX:75:ILE:HG22	45:BX:100:ALA:HB1	1.80	0.63
46:BY:105:VAL:O	46:BY:140:ASP:CG	2.36	0.63
47:BZ:51:VAL:CG2	47:BZ:79:VAL:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2135:A:H4'	24:BA:2136:C:C6	2.33	0.63
24:BA:2152:G:H2'	24:BA:2153:G:H8	1.62	0.63
26:BC:190:ARG:HB2	26:BC:190:ARG:NH1	2.13	0.63
24:BA:1579:A:N7	24:BA:1580:A:H1'	2.12	0.63
46:BY:63:ASP:O	46:BY:63:ASP:CG	2.36	0.63
1:AA:208:U:H4'	1:AA:209:U:OP1	1.96	0.63
1:AA:1321:C:C4	1:AA:1322:C:H2'	2.33	0.63
1:AA:1483:A:H3'	1:AA:1484:C:H6	1.63	0.63
1:AA:1539:C:H2'	1:AA:1540:U:H6	1.62	0.63
1:AA:362:G:H4'	14:AO:28:LYS:NZ	2.13	0.63
1:AA:511:C:O2'	1:AA:512:U:O4'	2.17	0.63
1:AA:520:A:H3'	1:AA:521:G:H5''	1.80	0.63
1:AA:552:U:O2'	1:AA:553:A:H5'	1.98	0.63
1:AA:570:G:N1	1:AA:866:C:N4	2.46	0.63
1:AA:595:G:H3'	1:AA:641:U:O4	1.99	0.63
1:AA:570:G:O6	1:AA:865:A:N6	2.31	0.63
1:AA:85:U:H2'	1:AA:86:U:H5'	1.81	0.63
1:AA:974:A:H8	1:AA:974:A:OP1	1.81	0.63
3:AD:34:G:C2	3:AD:35:A:H5''	2.33	0.63
4:AE:132:LYS:H	4:AE:132:LYS:CE	2.10	0.63
4:AE:67:THR:OG1	4:AE:155:LEU:HG	1.99	0.63
4:AE:28:PHE:HE1	4:AE:31:TYR:CB	2.09	0.63
6:AG:148:VAL:HB	6:AG:153:ARG:HG2	1.80	0.63
6:AG:20:TYR:C	6:AG:26:CYS:SG	2.77	0.63
9:AJ:141:VAL:C	9:AJ:144:MET:HB2	2.17	0.63
10:AK:85:ARG:HA	10:AK:135:CYS:HB2	1.79	0.63
10:AK:92:ARG:CB	10:AK:94:TYR:HE1	2.09	0.63
11:AL:85:LEU:CD2	11:AL:96:LEU:HD13	2.25	0.63
14:AO:122:THR:HG22	14:AO:123:LYS:N	2.13	0.63
15:AP:2:ALA:O	15:AP:4:ILE:HD12	1.98	0.63
15:AP:8:GLU:C	15:AP:10:PRO:HD2	2.18	0.63
16:AQ:9:LYS:HZ1	16:AQ:12:ARG:HH21	1.46	0.63
18:AS:30:GLY:O	18:AS:31:LYS:C	2.36	0.63
20:AU:63:GLN:O	20:AU:67:ALA:CB	2.46	0.63
20:AU:46:GLU:CB	20:AU:85:LEU:HD13	2.29	0.63
49:B2:22:ALA:HB1	49:B2:46:ASN:OD1	1.98	0.63
50:B3:6:HIS:NE2	50:B3:55:ARG:CD	2.55	0.63
24:BA:1287:A:H8	38:BQ:104:ARG:HH11	1.46	0.63
24:BA:1292:U:H2'	24:BA:1293:C:C6	2.33	0.63
24:BA:1342:A:H2'	24:BA:1345:C:N4	2.11	0.63
24:BA:1372:U:H2'	24:BA:1373:A:H5'	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1449:A:H4'	24:BA:1542:G:H21	1.63	0.63
24:BA:1534:G:N2	24:BA:1538:G:C8	2.66	0.63
24:BA:1847:A:O2'	24:BA:1848:A:H8	1.81	0.63
24:BA:1971:A:C2	27:BD:239:ARG:HG3	2.32	0.63
24:BA:212:G:H2'	24:BA:213:A:H8	1.64	0.63
24:BA:2286:A:H5'	24:BA:2287:A:H4'	1.80	0.63
24:BA:2323:G:C4	24:BA:2324:C:C5	2.85	0.63
24:BA:2577:A:O4'	24:BA:2612:C:N4	2.32	0.63
24:BA:2644:G:C2	24:BA:2645:G:N3	2.67	0.63
24:BA:270(O):U:H5''	24:BA:270(P):C:N4	2.12	0.63
24:BA:2742:C:O2'	24:BA:2743:C:H5'	1.98	0.63
24:BA:2856:C:O2'	24:BA:2857:G:H5'	1.98	0.63
24:BA:14:A:N1	24:BA:526:A:N6	2.46	0.63
24:BA:881:G:H22	24:BA:896:A:H61	1.44	0.63
27:BD:258:LYS:HB2	27:BD:264:LYS:NZ	2.12	0.63
24:BA:1816:G:OP1	27:BD:43:ARG:NE	2.32	0.63
27:BD:51:VAL:O	27:BD:52:ARG:HD3	1.98	0.63
27:BD:37:LEU:HD13	27:BD:64:ILE:HG22	1.80	0.63
27:BD:68:LYS:HG2	27:BD:70:TRP:HZ2	1.63	0.63
28:BE:1:MET:HG2	28:BE:1:MET:O	1.98	0.63
28:BE:36:ARG:CD	28:BE:41:LYS:HZ1	2.04	0.63
28:BE:46:ALA:HB3	28:BE:80:GLU:OE2	1.98	0.63
29:BF:34:TRP:O	29:BF:37:VAL:CB	2.46	0.63
29:BF:80:ALA:HB1	29:BF:81:PRO:HD2	1.80	0.63
32:BK:7:GLU:HA	32:BK:14:ASP:OD2	1.98	0.63
33:BL:112:MET:HE1	33:BL:119:ASP:H	1.63	0.63
33:BL:11:GLN:C	33:BL:12:LEU:HD23	2.17	0.63
33:BL:14:ALA:CB	33:BL:53:VAL:HG21	2.27	0.63
34:BM:107:LEU:HD22	34:BM:117:PHE:CE1	2.33	0.63
35:BN:50:GLY:O	35:BN:51:ALA:CB	2.47	0.63
35:BN:66:LYS:C	35:BN:67:LYS:HG2	2.19	0.63
36:BO:123:LEU:O	36:BO:138:LEU:CG	2.44	0.63
29:BF:31:HIS:ND1	36:BO:14:LYS:NZ	2.45	0.63
37:BP:37:LEU:HA	37:BP:100:GLY:HA2	1.80	0.63
37:BP:137:TYR:O	37:BP:138:ASP:CB	2.46	0.63
37:BP:27:VAL:HG13	37:BP:104:PHE:HE2	1.61	0.63
42:BU:12:TYR:CE1	42:BU:14:VAL:CB	2.78	0.63
42:BU:73:SER:OG	42:BU:75:PHE:CZ	2.51	0.63
43:BV:74:ALA:HB2	43:BV:105:VAL:HA	1.79	0.63
44:BW:21:PHE:HD2	44:BW:26:TYR:HA	1.64	0.63
45:BX:84:ARG:NE	45:BX:84:ARG:C	2.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:140:ASP:O	46:BY:141:VAL:HG23	1.97	0.63
1:AA:1080:A:OP1	7:AH:14:ARG:NH2	2.31	0.63
1:AA:1260:C:H4'	1:AA:1284:C:C5'	2.29	0.63
1:AA:1419:G:O2'	1:AA:1420:C:C5'	2.46	0.63
1:AA:375:U:H2'	1:AA:376:G:C8	2.32	0.63
1:AA:405:U:C3'	1:AA:406:G:H5'	2.27	0.63
1:AA:449:C:N3	1:AA:450:G:H1'	2.14	0.63
1:AA:67:C:O4'	1:AA:172:A:H1'	1.99	0.63
1:AA:790:A:O5'	1:AA:790:A:H8	1.80	0.63
1:AA:843:U:N3	4:AE:37:ASN:ND2	2.44	0.63
4:AE:118:LEU:HD13	4:AE:142:LEU:HD12	1.80	0.63
5:AF:46:GLU:C	5:AF:47:LEU:HD22	2.17	0.63
6:AG:3:ARG:NE	6:AG:71:SER:H	1.96	0.63
14:AO:24:VAL:CG1	14:AO:26:ALA:HB2	2.29	0.63
14:AO:68:ALA:HB1	14:AO:99:HIS:CA	2.25	0.63
15:AP:15:VAL:HB	15:AP:34:LEU:HD21	1.79	0.63
15:AP:29:ARG:HH11	15:AP:66:LEU:HD22	1.62	0.63
18:AS:1:MET:HB3	18:AS:3:LYS:HZ1	1.63	0.63
21:AV:36:ARG:NH2	21:AV:75:ALA:HB3	2.11	0.63
49:B2:4:LEU:C	49:B2:37:LEU:HB3	2.12	0.63
52:B5:25:LYS:HE2	54:B7:35:GLN:HB3	1.80	0.63
53:B6:25:PRO:HA	53:B6:28:ARG:NH2	2.12	0.63
24:BA:1011:G:H2'	24:BA:1013:C:H5''	1.79	0.63
24:BA:1317:A:H2'	24:BA:1318:C:C6	2.32	0.63
24:BA:1468:C:H2'	24:BA:1469:A:C8	2.33	0.63
24:BA:1506:C:N3	24:BA:1507:A:H1'	2.13	0.63
24:BA:1520:U:H6	24:BA:1520:U:H3'	1.63	0.63
24:BA:1773:A:C2	24:BA:1977:A:N6	2.66	0.63
24:BA:1792:G:OP1	27:BD:206:LEU:HD21	1.99	0.63
24:BA:1967:C:H2'	24:BA:1968:G:H5'	1.79	0.63
24:BA:1996:C:C2'	24:BA:1997:G:H4'	2.28	0.63
24:BA:2024:G:H2'	24:BA:2025:C:O4'	1.99	0.63
24:BA:2027:G:H2'	24:BA:2028:U:C6	2.32	0.63
24:BA:2376:A:H2'	24:BA:2377:A:C8	2.33	0.63
24:BA:413:C:H42	24:BA:2410:G:H1	1.46	0.63
24:BA:2439:A:C4'	24:BA:2440:C:O5'	2.41	0.63
24:BA:2514:U:C2	24:BA:2515:C:C5	2.87	0.63
24:BA:2597:G:C4'	27:BD:242:ARG:NE	2.61	0.63
24:BA:2657:A:H62	24:BA:2664:G:N2	1.87	0.63
24:BA:270:A:N7	24:BA:270(A):A:C8	2.66	0.63
24:BA:270(W):G:N7	24:BA:270(X):G:N7	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:300:A:C1'	24:BA:318:C:O2'	2.47	0.63
24:BA:328:U:C6	24:BA:328:U:H3'	2.33	0.63
24:BA:408:G:H2'	24:BA:409:C:H6	1.61	0.63
24:BA:629:G:OP1	54:B7:17:THR:HG22	1.98	0.63
24:BA:650:C:N3	24:BA:651:G:C2	2.67	0.63
24:BA:786:C:O2'	24:BA:787:U:C5'	2.38	0.63
24:BA:943:U:H5''	24:BA:944:G:O6	1.98	0.63
24:BA:950:G:C6	24:BA:951:C:N4	2.65	0.63
24:BA:965:C:O2'	24:BA:2272:U:C6	2.51	0.63
24:BA:981:A:OP2	24:BA:982:C:N4	2.29	0.63
24:BA:1860:G:H5''	26:BC:206:GLY:HA2	1.76	0.63
27:BD:147:LEU:HA	27:BD:185:VAL:CG1	2.27	0.63
24:BA:1789:A:H4'	27:BD:222:ARG:NH2	2.12	0.63
29:BF:154:VAL:HB	29:BF:193:VAL:HG23	1.79	0.63
24:BA:1204:A:H61	29:BF:187:VAL:HG23	1.63	0.63
30:BG:55:LYS:HG3	30:BG:148:MET:CB	2.27	0.63
33:BL:112:MET:HE1	33:BL:118:THR:HA	1.80	0.63
33:BL:18:THR:CB	33:BL:34:ILE:HG22	2.28	0.63
34:BM:15:LEU:HD23	34:BM:15:LEU:N	2.13	0.63
35:BN:117:LEU:HD23	35:BN:118:ALA:H	1.63	0.63
24:BA:598:G:O4'	36:BO:13:ASN:ND2	2.31	0.63
36:BO:130:PHE:HE1	36:BO:145:PRO:CB	2.11	0.63
40:BS:28:VAL:HG21	40:BS:90:GLN:NE2	2.14	0.63
41:BT:97:ASP:C	41:BT:100:VAL:HG22	2.18	0.63
41:BT:19:LYS:HB2	41:BT:19:LYS:HZ2	1.60	0.63
41:BT:63:VAL:HG12	41:BT:64:ARG:N	2.11	0.63
41:BT:74:LEU:HB3	41:BT:78:THR:OG1	1.97	0.63
41:BT:88:ILE:O	42:BU:52:VAL:HA	1.98	0.63
42:BU:70:ILE:HG23	42:BU:89:GLN:O	1.98	0.63
45:BX:74:PRO:HB3	45:BX:101:LYS:CA	2.28	0.63
3:AD:58:A:O2'	3:AD:59:U:OP1	2.16	0.63
24:BA:2121:G:H1'	26:BC:167:LYS:CD	2.26	0.63
28:BE:127:ASP:OD2	28:BE:135:HIS:N	2.28	0.63
1:AA:1122:U:O2'	1:AA:1123:A:H5'	1.98	0.63
1:AA:1124:G:N7	1:AA:1145:C:H2'	2.14	0.63
1:AA:1196:U:O5'	1:AA:1197:G:H5'	1.98	0.63
1:AA:1234:C:H4'	1:AA:1364:U:H1'	1.79	0.63
1:AA:1296:C:C1'	1:AA:1302:U:O4	2.46	0.63
1:AA:137:C:H2'	1:AA:138:G:C5'	2.29	0.63
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.63	0.63
1:AA:1519:A:H2'	1:AA:1520:G:H5'	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:960:U:O2'	1:AA:961:U:OP1	2.15	0.63
2:AC:75:C:H41	24:BA:2451:A:H4'	1.63	0.63
4:AE:97:TRP:NE1	4:AE:101:MET:SD	2.71	0.63
4:AE:68:ILE:HB	4:AE:70:PHE:CE1	2.34	0.63
5:AF:132:ARG:C	5:AF:136:GLN:NE2	2.51	0.63
5:AF:47:LEU:HD11	5:AF:83:ARG:NH2	2.06	0.63
6:AG:148:VAL:HG11	6:AG:158:ILE:HD12	1.80	0.63
7:AH:91:LEU:HD12	7:AH:110:LEU:HD11	1.81	0.63
8:AI:80:ARG:CG	8:AI:88:VAL:HG11	2.27	0.63
9:AJ:83:ALA:HB3	9:AJ:85:TYR:CE2	2.32	0.63
9:AJ:75:VAL:HG13	9:AJ:87:VAL:O	1.97	0.63
10:AK:119:LEU:HD22	10:AK:119:LEU:N	2.13	0.63
11:AL:117:HIS:O	11:AL:119:ALA:N	2.30	0.63
11:AL:48:GLU:OE1	11:AL:48:GLU:HA	1.96	0.63
13:AN:34:ASP:CB	13:AN:35:PRO:CD	2.77	0.63
15:AP:10:PRO:CB	15:AP:18:ALA:HA	2.28	0.63
15:AP:29:ARG:CZ	15:AP:64:TRP:NE1	2.62	0.63
15:AP:84:ILE:HG13	15:AP:85:GLY:N	2.12	0.63
12:AM:63:PHE:HZ	16:AQ:45:ARG:HB2	1.64	0.63
19:AT:3:LYS:HD3	19:AT:62:SER:HA	1.81	0.63
21:AV:5:LEU:CG	21:AV:9:VAL:HG22	2.29	0.63
23:AX:7:ARG:O	23:AX:12:LYS:HD3	1.99	0.63
49:B2:5:LYS:NZ	49:B2:57:GLU:HB2	2.13	0.63
49:B2:7:LYS:O	49:B2:54:VAL:CG2	2.41	0.63
24:BA:1210:A:C1'	24:BA:1212:G:H21	2.06	0.63
24:BA:565:C:O3'	24:BA:1253:A:C2	2.50	0.63
24:BA:1260:G:C2'	24:BA:1261:C:H5'	2.29	0.63
24:BA:1267:U:H5	24:BA:2012:G:N2	1.92	0.63
24:BA:1268:A:C4	24:BA:2013:A:N6	2.66	0.63
24:BA:1492:G:H2'	24:BA:1493:C:C5	2.33	0.63
24:BA:1681:G:C2'	24:BA:1682:G:OP1	2.47	0.63
24:BA:1764:G:H2'	24:BA:1765:C:H6	1.64	0.63
24:BA:1784:A:HO2'	24:BA:1785:A:P	2.18	0.63
24:BA:1809:A:H2'	24:BA:1810:A:H5'	1.79	0.63
24:BA:2062:A:C2'	24:BA:2063:C:OP1	2.45	0.63
24:BA:46:C:N4	24:BA:214:G:N7	2.47	0.63
24:BA:2619:C:H2'	24:BA:2620:C:O5'	1.99	0.63
24:BA:2745:C:H2'	24:BA:2746:U:H6	1.63	0.63
24:BA:2761:G:H2'	24:BA:2762:G:H5'	1.79	0.63
24:BA:467:G:OP1	53:B6:33:ARG:HD2	1.97	0.63
24:BA:484:C:C2	24:BA:485:C:C5	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:49:A:H2	24:BA:120:U:N3	1.95	0.63
24:BA:477:A:H62	24:BA:502:A:N6	1.96	0.63
24:BA:532:A:N7	41:BT:45:TYR:CE2	2.64	0.63
24:BA:607:U:C2	24:BA:608:A:C8	2.86	0.63
24:BA:620:G:H5'	24:BA:621:A:OP1	1.98	0.63
17:AR:60:VAL:HG11	24:BA:715:G:H5''	1.80	0.63
24:BA:736:C:C4	24:BA:737:C:C5	2.86	0.63
24:BA:788:A:O2'	24:BA:789:A:OP2	2.16	0.63
24:BA:919:G:C4	24:BA:920:G:C8	2.87	0.63
25:BB:9:G:C5	25:BB:112:G:C6	2.87	0.63
27:BD:135:PHE:O	27:BD:137:PRO:HD3	1.97	0.63
27:BD:140:THR:O	27:BD:165:ILE:HD13	1.99	0.63
27:BD:51:VAL:CG1	27:BD:52:ARG:CD	2.74	0.63
28:BE:133:LYS:O	28:BE:137:HIS:CE1	2.51	0.63
28:BE:104:VAL:CG2	28:BE:198:VAL:HA	2.22	0.63
28:BE:48:GLN:HE22	28:BE:79:ARG:HA	1.63	0.63
28:BE:58:ARG:HB2	28:BE:58:ARG:NH2	2.12	0.63
24:BA:2749:A:H4'	31:BH:62:LYS:CB	2.28	0.63
37:BP:39:PRO:HB3	37:BP:127:ILE:HG12	1.80	0.63
37:BP:46:GLN:OE1	37:BP:126:PRO:HB3	1.98	0.63
24:BA:1653:G:O6	38:BQ:11:ASN:HA	1.99	0.63
40:BS:72:VAL:CG1	40:BS:73:GLU:H	2.02	0.63
40:BS:76:PHE:CE2	40:BS:78:LEU:HD11	2.31	0.63
41:BT:98:LEU:HD12	41:BT:105:VAL:HG11	1.80	0.63
41:BT:65:ILE:CG2	41:BT:76:TYR:HE1	2.10	0.63
41:BT:77:SER:OG	41:BT:78:THR:N	2.28	0.63
42:BU:72:VAL:O	42:BU:89:GLN:HB2	1.98	0.63
44:BW:12:VAL:CB	44:BW:27:THR:O	2.39	0.63
46:BY:157:LEU:HD11	46:BY:163:LEU:HD21	1.80	0.63
47:BZ:70:GLN:HB3	47:BZ:78:TYR:O	1.99	0.63
1:AA:1036:G:C8	1:AA:1037:C:C5	2.87	0.63
1:AA:1064:G:N3	1:AA:1066:C:N4	2.45	0.63
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.22	0.63
1:AA:1418:A:H2'	1:AA:1419:G:C5'	2.27	0.63
1:AA:1394:A:C8	1:AA:1501:C:H1'	2.32	0.63
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.79	0.63
1:AA:225:C:H2'	1:AA:226:G:C5'	2.29	0.63
1:AA:519:C:O2'	1:AA:520:A:H5'	1.99	0.63
1:AA:678:U:H2'	1:AA:679:C:C5	2.33	0.63
1:AA:754:C:C2'	1:AA:755:G:OP1	2.45	0.63
1:AA:80:G:C2'	1:AA:81:G:O4'	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:219:VAL:HG12	4:AE:223:ILE:HD11	1.79	0.63
4:AE:219:VAL:HG13	4:AE:222:ILE:HD11	1.80	0.63
5:AF:17:ASP:HB3	5:AF:18:TRP:HE3	1.63	0.63
5:AF:158:GLY:HA2	5:AF:193:TYR:OH	1.99	0.63
5:AF:35:GLU:HG2	5:AF:36:ASP:N	2.12	0.63
6:AG:120:LEU:HB2	6:AG:125:HIS:CD2	2.33	0.63
6:AG:121:VAL:HA	6:AG:126:ILE:HD11	1.79	0.63
1:AA:9:G:OP2	7:AH:121:LYS:HA	1.99	0.63
8:AI:62:TRP:CB	20:AU:35:ARG:NH1	2.56	0.63
10:AK:68:ARG:HD3	10:AK:69:ARG:N	2.13	0.63
1:AA:1179:A:C4'	11:AL:103:THR:OG1	2.42	0.63
17:AR:33:THR:HG23	17:AR:63:ARG:HH12	1.63	0.63
18:AS:20:VAL:HG11	18:AS:32:TYR:CB	2.28	0.63
19:AT:59:ILE:CD1	19:AT:60:ILE:N	2.61	0.63
19:AT:74:LEU:O	19:AT:74:LEU:HD13	1.98	0.63
21:AV:11:VAL:O	21:AV:16:LEU:CD1	2.46	0.63
22:AW:63:ILE:HD13	22:AW:80:ARG:CB	2.29	0.63
1:AA:1305:G:H5'	23:AX:4:GLY:HA3	1.81	0.63
48:B1:58:VAL:HG23	48:B1:59:LEU:N	2.12	0.63
50:B3:59:PHE:CD1	50:B3:60:GLN:HG2	2.32	0.63
24:BA:1205:U:O3'	24:BA:1206:G:N7	2.32	0.63
24:BA:1280:G:O2'	24:BA:1281:G:H5'	1.98	0.63
24:BA:1405:U:H2'	24:BA:1406:U:H6	1.56	0.63
24:BA:1698:A:HO2'	24:BA:1699:G:C3'	2.12	0.63
24:BA:1829:A:H3'	24:BA:1830:C:H6	1.63	0.63
24:BA:1841:U:C2'	24:BA:1842:G:H8	2.04	0.63
1:AA:1517:G:C1'	24:BA:1920:C:OP1	2.47	0.63
24:BA:1944:U:H3'	24:BA:1944:U:H6	1.62	0.63
24:BA:1982:C:C2	24:BA:1983:C:C5	2.86	0.63
24:BA:2015:A:OP2	24:BA:2015:A:O4'	2.16	0.63
24:BA:2298:A:O2'	24:BA:2299:G:H5'	1.98	0.63
24:BA:2346:A:N3	24:BA:2383:G:C5	2.67	0.63
24:BA:2327:A:C6	24:BA:2388:A:C2	2.85	0.63
24:BA:25:U:H4'	43:BV:79:GLY:HA2	1.80	0.63
24:BA:270:A:H2'	24:BA:270(A):A:O5'	1.97	0.63
24:BA:359:A:O2'	24:BA:360:G:N7	2.28	0.63
24:BA:28:A:H1'	24:BA:513:A:C2	2.32	0.63
24:BA:565:C:C2'	24:BA:565:C:O2	2.46	0.63
24:BA:579:G:H1'	24:BA:2017:U:C4	2.33	0.63
24:BA:657:U:O2'	24:BA:658:C:H5'	1.97	0.63
24:BA:763:G:C3'	24:BA:764:A:H5''	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:193:U:H4'	24:BA:803:U:C4'	2.29	0.63
24:BA:835:A:C4'	24:BA:2358:G:H1'	2.28	0.63
24:BA:890:A:O4'	24:BA:890:A:OP2	2.15	0.63
27:BD:133:LEU:CB	27:BD:136:ILE:HD11	2.27	0.63
27:BD:8:PRO:HG2	27:BD:26:LYS:N	2.12	0.63
28:BE:111:ARG:N	28:BE:161:GLY:HA2	2.14	0.63
30:BG:16:ARG:O	30:BG:20:ILE:CG1	2.46	0.63
30:BG:57:ALA:C	30:BG:67:LYS:HB2	2.19	0.63
34:BM:45:ASN:O	34:BM:46:VAL:HG23	1.99	0.63
34:BM:89:LYS:HA	34:BM:92:ALA:CB	2.22	0.63
36:BO:121:LYS:HB2	36:BO:137:LYS:CB	2.28	0.63
38:BQ:96:ARG:HG2	38:BQ:98:LEU:CD2	2.23	0.63
41:BT:100:VAL:CG2	41:BT:101:ARG:N	2.62	0.63
43:BV:18:ARG:O	43:BV:21:VAL:HG12	1.98	0.63
43:BV:25:ARG:HD2	43:BV:73:ALA:C	2.19	0.63
46:BY:53:ILE:HD13	46:BY:58:VAL:HG21	1.80	0.63
47:BZ:12:ASN:HA	47:BZ:14:ARG:NE	2.13	0.63
47:BZ:24:LYS:O	47:BZ:25:ARG:CG	2.47	0.63
24:BA:2352:A:H2	47:BZ:33:ALA:O	1.81	0.63
47:BZ:21:LEU:CG	47:BZ:39:ARG:O	2.44	0.63
24:BA:2148:G:N3	24:BA:2149:G:C8	2.67	0.63
24:BA:2125:G:N2	24:BA:2173:A:N6	2.42	0.63
26:BC:6:ARG:O	26:BC:8:ARG:N	2.32	0.63
32:BK:60:GLU:OE1	32:BK:61:ARG:N	2.30	0.63
1:AA:1003:G:N2	1:AA:1038:C:H1'	2.14	0.63
1:AA:219:C:C3'	1:AA:219:C:C6	2.82	0.63
19:AT:101:ARG:N	19:AT:101:ARG:HD2	2.14	0.63
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.34	0.63
1:AA:1296:C:C5	1:AA:1297:C:N4	2.64	0.63
1:AA:1446:A:O2'	1:AA:1447:G:P	2.57	0.63
1:AA:186(B):C:H4'	22:AW:89:ARG:HH12	1.60	0.63
1:AA:262:A:H4'	22:AW:75:ASN:HD21	1.63	0.63
1:AA:687:A:O2'	1:AA:688:G:OP2	2.14	0.63
1:AA:859:A:H2'	1:AA:860:A:C5'	2.29	0.63
2:AC:47:U:H2'	2:AC:48:C:O5'	1.98	0.63
5:AF:59:ARG:HE	5:AF:64:VAL:CA	2.02	0.63
7:AH:115:VAL:CG1	7:AH:118:ILE:HD11	2.28	0.63
7:AH:121:LYS:HZ2	7:AH:122:GLU:N	1.93	0.63
8:AI:3:ARG:CA	8:AI:67:MET:HE1	2.24	0.63
12:AM:46:ARG:HA	12:AM:64:GLU:HB3	1.79	0.63
12:AM:39:PRO:CA	12:AM:70:ARG:HH11	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:79:SER:HA	13:AN:104:GLN:NE2	2.12	0.63
13:AN:85:ARG:NE	13:AN:111:ASP:OD2	2.31	0.63
15:AP:91:ARG:NH2	15:AP:103:THR:HG21	2.09	0.63
15:AP:24:GLY:C	15:AP:66:LEU:HD13	2.19	0.63
15:AP:91:ARG:HB3	15:AP:98:VAL:CG1	2.29	0.63
19:AT:18:THR:HG23	19:AT:69:LYS:HE2	1.79	0.63
19:AT:50:LYS:HG2	19:AT:51:TYR:N	2.13	0.63
19:AT:81:ARG:HG3	19:AT:84:LEU:HD21	1.81	0.63
22:AW:23:ARG:CA	22:AW:26:ASN:HD21	2.11	0.63
22:AW:51:GLU:O	22:AW:55:ILE:HG13	1.99	0.63
52:B5:23:THR:HG21	54:B7:37:SER:O	1.99	0.63
52:B5:9:LEU:HD11	52:B5:27:LYS:HD2	1.79	0.63
54:B7:34:TRP:O	54:B7:36:LYS:N	2.32	0.63
24:BA:1180:C:C2'	24:BA:1181:C:C6	2.82	0.63
24:BA:1407:C:C2	24:BA:1408:C:C5	2.86	0.63
24:BA:1488:G:C2	24:BA:1489:U:H1'	2.33	0.63
24:BA:2016:U:C2'	24:BA:2017:U:O4'	2.46	0.63
24:BA:2035:G:O2'	24:BA:2036:C:OP1	2.17	0.63
24:BA:223:A:H4'	24:BA:223:A:OP2	1.97	0.63
24:BA:2325:G:H2'	24:BA:2326:C:C6	2.34	0.63
24:BA:2505:G:N2	24:BA:2576:G:C6	2.66	0.63
24:BA:2553:G:C8	24:BA:2583:G:C4'	2.82	0.63
24:BA:2627:G:C2'	24:BA:2628:C:C5'	2.73	0.63
24:BA:2626:C:O2'	24:BA:2627:G:O4'	2.14	0.63
24:BA:2653:U:H3	24:BA:2654:A:H62	1.43	0.63
24:BA:2714:G:O2'	24:BA:2715:C:H5'	1.99	0.63
24:BA:2787:C:O2	28:BE:61:ARG:CZ	2.46	0.63
24:BA:361:G:H2'	24:BA:362:U:H6	1.64	0.63
24:BA:482:A:N7	24:BA:506:G:N1	2.47	0.63
24:BA:558:G:C5'	34:BM:112:LEU:HG	2.25	0.63
24:BA:634:C:H2'	24:BA:635:C:C6	2.34	0.63
24:BA:191:A:HO2'	24:BA:678:C:HO2'	1.42	0.63
24:BA:731:C:O2'	24:BA:732:C:H5'	1.99	0.63
24:BA:783:A:O2'	24:BA:2588:G:H4'	1.99	0.63
24:BA:826:U:OP1	24:BA:2429:G:OP1	2.17	0.63
24:BA:994:C:H5''	24:BA:995:C:OP1	1.99	0.63
27:BD:62:TYR:CZ	27:BD:86:PRO:HB2	2.34	0.63
28:BE:167:VAL:CG2	28:BE:189:PRO:HB3	2.26	0.63
28:BE:51:PHE:CG	28:BE:52:LEU:N	2.65	0.63
29:BF:103:LYS:C	29:BF:106:ARG:HG2	2.19	0.63
30:BG:107:LEU:O	30:BG:111:LEU:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:16:ARG:HB3	30:BG:16:ARG:CZ	2.29	0.63
30:BG:53:LEU:HD23	30:BG:71:THR:H	1.63	0.63
30:BG:8:LYS:HZ3	30:BG:103:LEU:CD2	2.12	0.63
31:BH:24:VAL:HG12	31:BH:37:VAL:HG12	1.81	0.63
33:BL:54:PRO:HG3	33:BL:72:PRO:HA	1.80	0.63
34:BM:7:LYS:HD2	34:BM:8:GLN:N	2.12	0.63
34:BM:7:LYS:HD2	34:BM:8:GLN:O	1.99	0.63
36:BO:78:PRO:C	36:BO:81:GLN:HB2	2.18	0.63
36:BO:7:ARG:HD2	36:BO:8:PRO:HD3	1.80	0.63
37:BP:28:ALA:CB	37:BP:134:ARG:HB3	2.18	0.63
39:BR:31:SER:HB3	39:BR:34:HIS:CG	2.33	0.63
40:BS:95:ARG:NH2	40:BS:117:ASP:OD2	2.31	0.63
40:BS:50:ILE:HG23	40:BS:68:TYR:CB	2.29	0.63
42:BU:57:VAL:HG12	42:BU:58:VAL:N	2.13	0.63
43:BV:64:MET:O	43:BV:66:GLU:N	2.31	0.63
44:BW:31:HIS:CE1	44:BW:33:LYS:HB3	2.34	0.63
44:BW:31:HIS:NE2	44:BW:33:LYS:HB3	2.13	0.63
44:BW:29:TRP:CE3	44:BW:76:ARG:HG3	2.33	0.63
46:BY:6:LYS:CD	46:BY:35:ARG:HD3	2.26	0.63
24:BA:2602:A:H1'	47:BZ:1:MET:O	1.99	0.63
32:BK:69:LYS:HE3	32:BK:70:LYS:CG	2.24	0.63
26:BC:131:LEU:CD2	26:BC:136:LEU:HD12	2.28	0.63
26:BC:27:HIS:HD2	26:BC:30:LYS:NZ	1.97	0.63
26:BC:77:ILE:HG22	26:BC:96:GLY:CA	2.27	0.63
24:BA:1417:C:H3'	24:BA:1418:G:C8	2.34	0.63
24:BA:1587:A:H2'	24:BA:1588:C:H6	1.60	0.63
6:AG:165:MET:SD	6:AG:165:MET:C	2.77	0.63
24:BA:738:G:N7	24:BA:739:G:C2	2.67	0.63
1:AA:1191:A:H5''	5:AF:4:LYS:NZ	2.10	0.63
1:AA:190:G:H4'	1:AA:191(A):G:OP2	1.98	0.63
1:AA:232:G:C4	1:AA:233:C:C5	2.87	0.63
1:AA:370:C:O2'	1:AA:371:G:H5'	1.98	0.63
1:AA:44:G:C2	1:AA:45:U:C1'	2.82	0.63
1:AA:373:A:C5	1:AA:482:A:N6	2.66	0.63
1:AA:817:C:O2	1:AA:817:C:C2'	2.45	0.63
1:AA:872:A:C4	1:AA:874:G:N7	2.67	0.63
1:AA:88:C:H2'	1:AA:89:U:C5	2.34	0.63
1:AA:21:G:N2	1:AA:915:A:H61	1.96	0.63
1:AA:572:A:H4'	1:AA:917:G:H5'	1.80	0.63
1:AA:986:A:C4'	21:AV:55:LYS:HG3	2.29	0.63
2:AC:56:C:O2	30:BG:82:LEU:CB	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:163:PHE:HE1	4:AE:201:ILE:CD1	2.11	0.63
4:AE:168:THR:HG21	4:AE:192:SER:HA	1.80	0.63
4:AE:178:ARG:HA	4:AE:184:VAL:CG2	2.27	0.63
6:AG:87:GLY:O	6:AG:89:THR:N	2.30	0.63
10:AK:40:ALA:CA	10:AK:45:ILE:HG23	2.28	0.63
11:AL:23:ASN:HA	11:AL:57:GLY:O	1.99	0.63
12:AM:44:VAL:HG11	12:AM:46:ARG:NE	2.13	0.63
12:AM:52:GLY:H	12:AM:59:SER:HB3	1.63	0.63
17:AR:31:LEU:O	17:AR:34:LEU:HG	1.98	0.63
18:AS:4:ILE:CG1	18:AS:66:PRO:HB3	2.28	0.63
19:AT:3:LYS:O	19:AT:5:VAL:HG23	1.98	0.63
8:AI:62:TRP:HB2	20:AU:35:ARG:NH1	2.14	0.63
20:AU:74:ARG:CA	20:AU:79:LEU:HD11	2.27	0.63
1:AA:1313:U:C5	21:AV:4:SER:CB	2.82	0.63
21:AV:77:THR:HG23	21:AV:78:ARG:N	2.14	0.63
49:B2:17:LYS:O	49:B2:20:LYS:N	2.32	0.63
50:B3:20:ASN:HB2	50:B3:30:GLU:OE2	1.98	0.63
50:B3:48:ARG:H	50:B3:52:THR:HG1	1.45	0.63
50:B3:5:ILE:HD11	50:B3:10:VAL:HG23	1.80	0.63
51:B4:40:LYS:NZ	51:B4:43:HIS:CA	2.62	0.63
53:B6:2:LYS:O	53:B6:4:THR:N	2.30	0.63
24:BA:1028:A:C2	24:BA:1029:A:C5	2.87	0.63
24:BA:1044:G:C4'	24:BA:1047:G:H1'	2.28	0.63
24:BA:1069:A:C4'	24:BA:1070:A:O5'	2.46	0.63
24:BA:1081:U:H3'	24:BA:1082:U:C6	2.34	0.63
24:BA:1326:U:C3'	24:BA:1327:C:H5'	2.27	0.63
24:BA:1366:A:OP2	24:BA:1366:A:C8	2.51	0.63
24:BA:1567:A:N6	27:BD:85:ASP:C	2.51	0.63
24:BA:1266:G:HO2'	24:BA:2012:G:H1	1.46	0.63
24:BA:2075:U:H3	24:BA:2238:G:H22	1.44	0.63
24:BA:241:A:N3	24:BA:241:A:H2'	2.11	0.63
24:BA:2015:A:N1	24:BA:2613:U:O4	2.32	0.63
24:BA:2880:C:O3'	38:BQ:90:ARG:NH1	2.31	0.63
24:BA:60:G:C8	24:BA:63:U:C4	2.87	0.63
24:BA:894:C:H2'	24:BA:895:U:C5	2.33	0.63
24:BA:917:A:HO2'	24:BA:918:A:P	2.21	0.63
24:BA:970:C:C2	24:BA:971:C:C5	2.87	0.63
25:BB:10:C:O2'	25:BB:11:C:H5'	1.98	0.63
25:BB:37:C:N3	25:BB:48:A:O2'	2.30	0.63
25:BB:97:G:H2'	25:BB:98:G:H5'	1.81	0.63
27:BD:164:GLN:O	27:BD:175:LEU:HD22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:29:ASN:HD22	29:BF:30:PRO:N	1.97	0.63
31:BH:118:PRO:CG	31:BH:121:ILE:HG21	2.29	0.63
33:BL:78:ILE:CG2	33:BL:79:ARG:N	2.61	0.63
34:BM:103:VAL:HG23	34:BM:104:LYS:N	2.13	0.63
35:BN:68:GLU:HG2	35:BN:76:ALA:N	2.14	0.63
37:BP:34:LEU:HD22	37:BP:118:LEU:HD22	1.79	0.63
24:BA:1287:A:C8	38:BQ:104:ARG:NH1	2.66	0.63
39:BR:29:PHE:CE1	39:BR:34:HIS:NE2	2.67	0.63
39:BR:42:ASP:CG	39:BR:44:LYS:HG2	2.19	0.63
39:BR:73:LEU:H	39:BR:73:LEU:CD1	2.11	0.63
44:BW:50:LYS:HZ2	44:BW:85:PRO:CD	2.04	0.63
45:BX:21:LYS:HB2	45:BX:23:ARG:HH12	1.62	0.63
46:BY:95:PRO:CD	46:BY:130:PRO:HA	2.28	0.63
47:BZ:17:GLN:HA	47:BZ:17:GLN:HE21	1.63	0.63
32:BK:132:PRO:CD	32:BK:138:ILE:N	2.60	0.63
3:AD:19:G:N1	3:AD:56:C:N3	2.46	0.63
26:BC:211:SER:CA	26:BC:223:ARG:HH21	2.10	0.63
1:AA:1034:G:H2'	1:AA:1035:A:H8	1.62	0.63
5:AF:157:ILE:CG2	5:AF:164:ARG:HE	2.11	0.63
4:AE:230:VAL:HG12	4:AE:231:GLU:N	2.13	0.63
1:AA:1107:C:C2'	1:AA:1108:G:H5'	2.26	0.63
1:AA:1251:A:C2'	1:AA:1252:A:C8	2.78	0.63
1:AA:1363:A:N3	1:AA:1365:G:O6	2.31	0.63
1:AA:1404:C:H6	1:AA:1404:C:OP2	1.81	0.63
1:AA:1516:G:N2	1:AA:1518:A:OP2	2.31	0.63
1:AA:11:G:N2	1:AA:24:U:C6	2.67	0.63
1:AA:310:G:H2'	1:AA:311:C:H6	1.64	0.63
1:AA:479:C:O5'	1:AA:479:C:H6	1.81	0.63
1:AA:607:A:C5	1:AA:608:A:C8	2.87	0.63
1:AA:622:A:H2'	1:AA:623:C:O5'	1.98	0.63
1:AA:665:A:C2'	1:AA:725:G:N2	2.50	0.63
1:AA:768:A:H8	1:AA:768:A:O5'	1.82	0.63
1:AA:961:U:C2'	1:AA:962:C:C5'	2.77	0.63
4:AE:137:ARG:O	4:AE:141:GLU:CB	2.47	0.63
4:AE:160:ASP:HA	4:AE:182:ILE:HG21	1.81	0.63
7:AH:79:GLU:OE1	10:AK:105:ARG:HB2	1.98	0.63
8:AI:72:VAL:O	8:AI:73:ASN:C	2.35	0.63
8:AI:95:GLU:H	8:AI:96:PRO:CD	2.10	0.63
9:AJ:26:PHE:CE2	9:AJ:30:ILE:HD11	2.34	0.63
12:AM:16:LEU:HB3	12:AM:70:ARG:HG2	1.79	0.63
13:AN:111:ASP:OD2	13:AN:113:PRO:CD	2.41	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:99:GLN:HB3	13:AN:105:VAL:HG11	1.80	0.63
15:AP:90:LEU:HA	15:AP:93:ARG:CB	2.29	0.63
16:AQ:45:ARG:CB	16:AQ:45:ARG:HH11	2.08	0.63
18:AS:53:VAL:HG12	18:AS:79:VAL:CG2	2.28	0.63
19:AT:51:TYR:CD1	19:AT:51:TYR:N	2.67	0.63
20:AU:50:ILE:O	20:AU:50:ILE:HG22	1.99	0.63
51:B4:15:ARG:O	51:B4:17:ASP:N	2.31	0.63
55:B8:32:HIS:O	55:B8:34:GLN:N	2.32	0.63
24:BA:1023:U:H3	24:BA:1024:G:HO2'	1.45	0.63
24:BA:1068:G:H1'	24:BA:1069:A:C6	2.34	0.63
24:BA:331:A:N6	24:BA:1209:G:H2'	2.14	0.63
24:BA:1243:G:C2	24:BA:1244:G:C4	2.87	0.63
24:BA:1275:A:N6	24:BA:1296:G:O4'	2.31	0.63
24:BA:1528:A:N7	24:BA:1529:A:N1	2.47	0.63
24:BA:1825:A:H5''	24:BA:1826:G:OP2	1.97	0.63
24:BA:1854:A:H2'	24:BA:1855:G:O4'	1.99	0.63
24:BA:1912:A:N6	24:BA:1919:A:C8	2.66	0.63
24:BA:1935:G:C2	24:BA:1962:C:H2'	2.34	0.63
24:BA:1996:C:C4'	24:BA:1996:C:C6	2.81	0.63
24:BA:2041:U:O2'	24:BA:2042:A:H5'	1.99	0.63
24:BA:2265:U:C4	24:BA:2266:A:N7	2.67	0.63
24:BA:859:G:O2'	24:BA:2268:A:C2	2.47	0.63
24:BA:2413:G:N1	24:BA:2414:G:H1'	2.13	0.63
24:BA:2517:C:C5	24:BA:2542:A:C8	2.86	0.63
24:BA:2692:C:HO2'	24:BA:2847:U:C2'	2.11	0.63
24:BA:423:A:C8	24:BA:423:A:H3'	2.33	0.63
24:BA:431:U:H2'	24:BA:432:A:H5'	1.80	0.63
24:BA:648:G:N3	24:BA:649:G:C8	2.66	0.63
24:BA:714:U:C5	24:BA:716:A:OP2	2.51	0.63
24:BA:749:C:H3'	24:BA:749:C:C6	2.34	0.63
27:BD:259:THR:OG1	27:BD:261:LYS:HE3	1.99	0.63
24:BA:2224:G:H4'	27:BD:262:ARG:NH1	2.13	0.63
27:BD:60:ARG:HA	27:BD:62:TYR:CE2	2.34	0.63
28:BE:80:GLU:OE2	28:BE:83:ASP:HB2	1.99	0.63
29:BF:62:ARG:HG3	29:BF:63:LYS:HG2	1.80	0.63
24:BA:587:C:H5'	29:BF:90:PHE:CZ	2.34	0.63
30:BG:55:LYS:HE3	30:BG:152:LEU:CD2	2.23	0.63
33:BL:33:ASN:N	33:BL:37:PHE:HD1	1.97	0.63
33:BL:10:LEU:CD2	33:BL:57:ILE:HG12	2.20	0.63
38:BQ:41:ALA:HB1	38:BQ:114:VAL:HG21	1.80	0.63
38:BQ:57:ARG:NH2	38:BQ:59:ASP:OD1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:57:ARG:HH21	38:BQ:62:ALA:H	1.46	0.63
39:BR:95:HIS:CE1	39:BR:96:GLY:H	2.16	0.63
40:BS:30:VAL:CG2	40:BS:89:VAL:O	2.47	0.63
40:BS:99:LEU:N	40:BS:99:LEU:CD2	2.60	0.63
42:BU:69:LYS:HG2	42:BU:70:ILE:N	2.14	0.63
44:BW:89:ILE:O	44:BW:92:LEU:HD13	1.99	0.63
46:BY:40:ASP:O	46:BY:44:PHE:HB2	1.98	0.63
32:BK:87:LYS:HD2	32:BK:121:LYS:HG3	1.81	0.63
24:BA:2132:U:C5	24:BA:2132:U:OP2	2.52	0.63
24:BA:2124:G:O2'	26:BC:217:THR:OG1	2.10	0.63
26:BC:64:LEU:HD22	26:BC:191:ALA:HB3	1.78	0.63
24:BA:2101:G:O2'	24:BA:2102:U:H5'	1.98	0.63
1:AA:1451:A:H5''	1:AA:1452:C:C5	2.33	0.63
1:AA:1018:C:O2'	1:AA:1019:C:H5'	1.99	0.63
1:AA:129(A):G:O2'	1:AA:130:A:P	2.57	0.63
1:AA:1310:G:C8	21:AV:2:PRO:HD3	2.34	0.63
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.33	0.63
1:AA:1367:C:OP1	11:AL:115:GLY:CA	2.47	0.63
1:AA:501:C:OP2	14:AO:124:LYS:NZ	2.31	0.63
1:AA:598:U:H4'	10:AK:94:TYR:CD2	2.34	0.63
1:AA:706:A:H4'	13:AN:29:ILE:HD13	1.79	0.63
1:AA:666:G:OP2	1:AA:726:C:H1'	1.99	0.63
1:AA:729:A:C2	1:AA:730:G:H1'	2.34	0.63
1:AA:775:G:H2'	1:AA:776:G:N7	2.14	0.63
1:AA:812:C:O2	1:AA:813:U:H5	1.82	0.63
3:AD:28:G:C6	3:AD:43:A:C6	2.87	0.63
3:AD:71:G:OP1	24:BA:1893:C:H5'	1.98	0.63
4:AE:164:VAL:HG22	4:AE:165:VAL:HG22	1.79	0.63
5:AF:10:PHE:CD1	5:AF:178:LEU:HD22	2.34	0.63
5:AF:50:ALA:HB1	5:AF:72:LYS:CB	2.28	0.63
6:AG:67:ILE:HD12	6:AG:67:ILE:C	2.19	0.63
9:AJ:69:VAL:HG11	9:AJ:104:LEU:CG	2.28	0.63
9:AJ:51:GLN:OE1	9:AJ:58:PRO:HD2	1.99	0.63
10:AK:111:ILE:HD12	10:AK:111:ILE:H	1.63	0.63
10:AK:68:ARG:HD3	10:AK:69:ARG:H	1.63	0.63
1:AA:1367:C:OP1	11:AL:115:GLY:HA2	1.99	0.63
12:AM:65:LEU:HD13	16:AQ:36:PHE:CZ	2.34	0.63
14:AO:110:VAL:HB	14:AO:113:ARG:HG3	1.81	0.63
14:AO:77:LEU:HA	14:AO:81:SER:CB	2.29	0.63
16:AQ:26:ARG:HB3	16:AQ:43:CYS:HB2	1.80	0.63
18:AS:21:VAL:HG21	18:AS:34:GLU:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:39:TYR:CZ	18:AS:41:PRO:HG3	2.34	0.63
19:AT:48:GLU:OE2	19:AT:50:LYS:HB2	1.98	0.63
19:AT:60:ILE:HG22	19:AT:74:LEU:HB2	1.80	0.63
22:AW:72:LEU:HD22	22:AW:76:ALA:HB1	1.81	0.63
51:B4:8:LYS:O	51:B4:9:LYS:HG3	1.97	0.63
52:B5:30:THR:CG2	52:B5:31:PRO:HD3	2.29	0.63
24:BA:1267:U:C5	24:BA:2012:G:N2	2.55	0.63
24:BA:1388:G:H2'	24:BA:1389:G:H8	1.64	0.63
24:BA:14:A:C2	24:BA:2625:G:O2'	2.52	0.63
24:BA:1646:C:H3'	24:BA:1647:G:C5'	2.28	0.63
24:BA:1667:G:N3	24:BA:1667:G:H2'	2.14	0.63
24:BA:1771:C:C3'	24:BA:1772:G:H5''	2.29	0.63
24:BA:1784:A:C2	24:BA:1785:A:C6	2.87	0.63
24:BA:1977:A:C2	24:BA:1978:A:N9	2.67	0.63
24:BA:2226:C:C2'	24:BA:2227:A:O4'	2.40	0.63
24:BA:2423:U:O2'	24:BA:2424:C:OP2	2.12	0.63
24:BA:2447:G:N1	24:BA:2500:U:C4	2.67	0.63
24:BA:2455:G:H21	24:BA:2498:C:N4	1.97	0.63
24:BA:2448:A:OP1	24:BA:2498:C:C5'	2.47	0.63
24:BA:2060:A:N7	24:BA:2502:G:C2	2.66	0.63
24:BA:270(G):C:C2	24:BA:270(H):C:C5	2.87	0.63
24:BA:2744:G:C2'	24:BA:2745:C:H5'	2.29	0.63
24:BA:341:G:OP2	24:BA:342:G:P	2.56	0.63
24:BA:503:A:C8	24:BA:503:A:O5'	2.50	0.63
24:BA:13:A:C2	24:BA:526:A:N6	2.66	0.63
24:BA:554:U:O2'	24:BA:556:G:C8	2.48	0.63
24:BA:586:A:H4'	29:BF:89:VAL:HG21	1.79	0.63
24:BA:613:U:C5'	24:BA:614:U:C5	2.80	0.63
24:BA:623:G:C2'	24:BA:624:C:H5''	2.27	0.63
24:BA:681:G:C6	24:BA:682:G:C6	2.86	0.63
24:BA:695:G:C6	24:BA:768:G:C6	2.87	0.63
24:BA:70:G:H4'	24:BA:71:A:C5'	2.29	0.63
24:BA:860:U:H3'	24:BA:860:U:C6	2.33	0.63
24:BA:902:C:H2'	24:BA:903:C:H6	1.63	0.63
24:BA:971:C:O2	24:BA:972:G:H1'	1.99	0.63
25:BB:28:C:H2'	25:BB:29:A:H8	1.61	0.63
27:BD:131:LEU:CD1	27:BD:132:PRO:HD2	2.28	0.63
27:BD:27:THR:C	27:BD:29:PRO:HD2	2.19	0.63
28:BE:145:LYS:H	28:BE:145:LYS:HZ3	1.45	0.63
28:BE:187:ALA:O	28:BE:189:PRO:N	2.32	0.63
28:BE:27:LEU:HD11	28:BE:30:PRO:CD	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:71:GLY:C	28:BE:72:VAL:HG22	2.18	0.63
31:BH:87:LEU:N	31:BH:132:ARG:CB	2.59	0.63
31:BH:23:ARG:HH22	31:BH:36:PRO:HD3	1.64	0.63
33:BL:23:VAL:O	33:BL:34:ILE:HG23	1.98	0.63
37:BP:56:ARG:C	37:BP:56:ARG:HD2	2.20	0.63
37:BP:74:TYR:CE1	37:BP:94:VAL:HG13	2.34	0.63
37:BP:8:LYS:HZ3	37:BP:11:LYS:CE	2.12	0.63
39:BR:71:ARG:HB3	39:BR:107:GLU:HG2	1.81	0.63
39:BR:15:ARG:HH21	39:BR:15:ARG:CG	2.05	0.63
40:BS:10:VAL:O	40:BS:14:TYR:CE1	2.51	0.63
40:BS:23:ARG:NH1	40:BS:88:ILE:HG22	2.12	0.63
40:BS:5:ALA:HB3	40:BS:6:LEU:HD13	1.80	0.63
40:BS:93:ARG:HG2	40:BS:95:ARG:HB2	1.81	0.63
42:BU:20:LEU:HB3	42:BU:95:LEU:HD22	1.79	0.63
45:BX:8:LYS:HE3	45:BX:28:LYS:CD	2.28	0.63
46:BY:18:LEU:HD11	46:BY:38:TYR:HB3	1.81	0.63
47:BZ:40:GLN:OE1	47:BZ:43:THR:HA	1.99	0.63
3:AD:17:U:O4	3:AD:19:G:N7	2.31	0.63
26:BC:85:GLU:HG2	26:BC:86:ALA:N	2.13	0.63
24:BA:1583:A:H5'	24:BA:1585:C:OP1	1.98	0.63
24:BA:2096:U:H2'	24:BA:2097:C:H5	1.63	0.63
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.33	0.62
1:AA:1343:G:H4'	11:AL:122:ALA:O	1.98	0.62
1:AA:1358:U:OP2	1:AA:1359:C:C5	2.52	0.62
1:AA:949:A:O2'	1:AA:1364:U:N3	2.32	0.62
1:AA:137:C:O2'	1:AA:138:G:H5'	1.99	0.62
1:AA:1435:G:C2	1:AA:1436:U:C4	2.87	0.62
1:AA:1498:U:O2'	1:AA:1499:A:H5'	1.98	0.62
1:AA:467:G:OP2	1:AA:467:G:H3'	1.99	0.62
1:AA:488:C:H2'	1:AA:489:C:H6	1.64	0.62
1:AA:50:A:N6	1:AA:361:G:C4'	2.61	0.62
1:AA:5:U:C4	6:AG:86:LYS:HD3	2.34	0.62
1:AA:647:C:C2	1:AA:648:A:C8	2.87	0.62
1:AA:655:A:H2'	1:AA:656:C:H6	1.63	0.62
1:AA:720:C:H6	1:AA:720:C:O5'	1.82	0.62
1:AA:727:G:C8	1:AA:727:G:C3'	2.82	0.62
1:AA:76:G:H2'	1:AA:77:C:H6	1.64	0.62
1:AA:817:C:N4	1:AA:819:A:N3	2.47	0.62
5:AF:112:SER:OG	5:AF:115:LEU:HG	1.99	0.62
7:AH:116:THR:O	7:AH:116:THR:HG23	1.99	0.62
8:AI:31:GLU:CA	8:AI:35:ALA:HB3	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:122:HIS:HA	9:AJ:125:MET:SD	2.38	0.62
9:AJ:72:ARG:HA	9:AJ:96:GLN:HE22	1.64	0.62
10:AK:65:TYR:CE2	10:AK:78:GLN:OE1	2.51	0.62
11:AL:29:ASN:HA	11:AL:63:ILE:O	1.98	0.62
12:AM:50:ILE:N	12:AM:60:ARG:HG3	2.14	0.62
13:AN:24:SER:OG	13:AN:25:TYR:N	2.31	0.62
15:AP:7:VAL:HG12	30:BG:140:ILE:HG21	1.81	0.62
15:AP:81:LEU:HD22	15:AP:82:MET:H	1.64	0.62
16:AQ:54:PRO:O	16:AQ:56:VAL:HG23	1.99	0.62
1:AA:625:G:H4'	18:AS:16:HIS:CG	2.34	0.62
18:AS:35:LYS:HZ2	18:AS:37:GLY:C	2.02	0.62
18:AS:3:LYS:HB3	18:AS:3:LYS:HZ2	1.62	0.62
22:AW:14:LYS:N	22:AW:17:ARG:NH2	2.44	0.62
23:AX:12:LYS:HG3	23:AX:17:THR:OG1	1.98	0.62
49:B2:28:LEU:CA	49:B2:33:GLN:HE22	2.11	0.62
49:B2:55:ARG:CB	49:B2:55:ARG:CZ	2.77	0.62
49:B2:5:LYS:HZ3	49:B2:57:GLU:CB	2.11	0.62
24:BA:458:G:C8	53:B6:38:GLY:O	2.52	0.62
54:B7:26:LYS:HD2	54:B7:43:GLN:C	2.18	0.62
55:B8:11:CYS:HB3	55:B8:32:HIS:CE1	2.34	0.62
24:BA:1321:A:C2	24:BA:1322:A:H1'	2.34	0.62
24:BA:1608:A:C5	24:BA:1611:C:C4	2.87	0.62
24:BA:1935:G:C2'	24:BA:1937:A:H2	2.12	0.62
24:BA:2085:C:C2'	24:BA:2086:U:H5'	2.29	0.62
24:BA:2209:C:H4'	27:BD:150:LYS:CB	2.27	0.62
24:BA:2243:U:O2	24:BA:2244:U:C6	2.51	0.62
24:BA:2263:C:C2'	24:BA:2264:C:H5'	2.30	0.62
24:BA:227:A:N6	24:BA:2407:G:H8	1.97	0.62
24:BA:2311:A:H3'	24:BA:2312:U:C6	2.34	0.62
24:BA:2473:U:O2	24:BA:2473:U:C2'	2.46	0.62
24:BA:2666:C:H3'	24:BA:2667:C:C5'	2.29	0.62
24:BA:2683:C:C5	24:BA:2684:U:C5	2.87	0.62
24:BA:496:G:OP1	43:BV:4:LYS:NZ	2.30	0.62
24:BA:543:C:H2'	24:BA:544:C:C5	2.33	0.62
24:BA:679:C:O2	24:BA:679:C:H2'	1.98	0.62
24:BA:85:G:H1'	24:BA:103:A:C2	2.33	0.62
27:BD:145:VAL:HA	27:BD:190:TYR:O	1.99	0.62
27:BD:196:VAL:CG1	27:BD:198:ASN:H	2.11	0.62
27:BD:20:ASP:HB3	27:BD:21:PHE:CD2	2.33	0.62
27:BD:21:PHE:N	27:BD:21:PHE:CD2	2.65	0.62
28:BE:101:ARG:HD2	28:BE:169:ASN:ND2	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:4:ILE:HA	28:BE:197:ILE:HG23	1.79	0.62
28:BE:54:GLN:HB3	28:BE:57:LYS:HZ2	1.63	0.62
29:BF:125:LEU:C	29:BF:127:GLU:N	2.52	0.62
30:BG:169:ALA:C	30:BG:172:LEU:HB3	2.19	0.62
31:BH:7:LEU:HD13	31:BH:65:HIS:NE2	2.14	0.62
32:BK:7:GLU:H	32:BK:8:PRO:HD3	1.64	0.62
33:BL:23:VAL:HG13	33:BL:34:ILE:HA	1.81	0.62
33:BL:89:HIS:O	33:BL:90:LYS:HG3	1.98	0.62
35:BN:11:ALA:H	35:BN:17:ARG:HG3	1.63	0.62
35:BN:59:LYS:C	35:BN:86:ILE:HD13	2.20	0.62
37:BP:50:ALA:O	37:BP:54:MET:HG2	1.98	0.62
39:BR:18:ILE:CD1	39:BR:18:ILE:H	2.11	0.62
40:BS:111:ARG:C	40:BS:114:LEU:HB3	2.19	0.62
40:BS:23:ARG:HH22	40:BS:89:VAL:C	2.02	0.62
42:BU:21:ARG:O	42:BU:93:GLU:OE1	2.17	0.62
41:BT:88:ILE:CB	42:BU:52:VAL:HA	2.29	0.62
45:BX:75:ILE:HG23	45:BX:100:ALA:HB2	1.81	0.62
46:BY:103:ARG:HH21	46:BY:104:PHE:HE2	1.46	0.62
46:BY:128:VAL:HG12	46:BY:129:SER:N	2.14	0.62
46:BY:176:PRO:HB2	46:BY:179:ASP:H	1.64	0.62
46:BY:179:ASP:CG	46:BY:180:VAL:N	2.52	0.62
46:BY:10:ARG:HG2	46:BY:36:LYS:CD	2.27	0.62
46:BY:75:ASN:HB3	46:BY:84:GLU:HB2	1.80	0.62
24:BA:2112:G:C2	24:BA:2113:U:N3	2.67	0.62
26:BC:30:LYS:NZ	26:BC:182:PRO:HB3	2.09	0.62
1:AA:989:C:H4'	1:AA:1016:A:H2	1.64	0.62
1:AA:1189:C:HO2'	1:AA:1190:G:H5'	1.64	0.62
1:AA:1230:C:O2	15:AP:126:LYS:HD3	1.99	0.62
1:AA:1237:C:C4	1:AA:1336:C:H6	2.17	0.62
1:AA:1480:G:H2'	1:AA:1481:U:H5'	1.80	0.62
1:AA:66:G:C4'	1:AA:173:U:C5	2.83	0.62
1:AA:21:G:C2	1:AA:915:A:N6	2.68	0.62
1:AA:262:A:C2	1:AA:263:A:C6	2.87	0.62
1:AA:363:A:C2'	1:AA:364:A:H5'	2.29	0.62
1:AA:379:C:H2'	1:AA:380:G:H5'	1.79	0.62
1:AA:448:A:H2'	1:AA:449:C:H6	1.65	0.62
1:AA:453:A:N6	1:AA:480:U:H3	1.96	0.62
1:AA:576:G:C8	1:AA:881:G:O2'	2.48	0.62
1:AA:828:A:C8	1:AA:829:G:C8	2.87	0.62
1:AA:952:U:O2'	1:AA:965:A:N6	2.32	0.62
2:AC:48:C:N4	2:AC:59:A:C6	2.66	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:121:ALA:HB2	5:AF:187:ALA:CB	2.29	0.62
5:AF:66:VAL:O	5:AF:66:VAL:HG12	1.99	0.62
7:AH:44:GLY:HA3	7:AH:61:TYR:HB2	1.82	0.62
7:AH:79:GLU:O	7:AH:80:ILE:HG23	1.98	0.62
8:AI:61:LEU:HB3	8:AI:63:TYR:OH	1.99	0.62
9:AJ:50:ILE:CD1	9:AJ:58:PRO:HB3	2.29	0.62
11:AL:98:PRO:C	11:AL:100:GLY:N	2.47	0.62
14:AO:33:ARG:O	14:AO:84:LEU:CG	2.47	0.62
1:AA:522:C:H41	14:AO:53:ARG:HH22	1.47	0.62
15:AP:77:ASN:HA	15:AP:80:ARG:CG	2.30	0.62
19:AT:18:THR:HG23	19:AT:69:LYS:HZ3	1.63	0.62
19:AT:82:MET:O	19:AT:85:VAL:CB	2.47	0.62
23:AX:6:ARG:HH11	23:AX:15:ARG:CZ	2.12	0.62
49:B2:28:LEU:HA	49:B2:33:GLN:CD	2.19	0.62
50:B3:57:GLU:H	50:B3:61:ARG:CG	2.13	0.62
55:B8:19:ARG:HG3	55:B8:22:ARG:HB2	1.80	0.62
24:BA:1024:G:C5'	24:BA:1025:G:H3'	2.28	0.62
24:BA:1151:G:H5''	41:BT:81:HIS:CE1	2.33	0.62
24:BA:1156:A:C5'	24:BA:1157:G:N7	2.56	0.62
24:BA:1338:G:N2	24:BA:1339:G:H1'	2.14	0.62
24:BA:1353:A:C2	24:BA:1378:A:C2	2.88	0.62
24:BA:188:G:O4'	24:BA:1365:A:C2	2.52	0.62
24:BA:1538:G:N1	24:BA:1539:G:C2	2.67	0.62
24:BA:1791:A:C4'	27:BD:206:LEU:HD21	2.28	0.62
24:BA:1797:C:C4	24:BA:1798:U:O4	2.52	0.62
24:BA:2289:G:O2'	24:BA:2383:G:H1'	1.99	0.62
24:BA:2457:U:C4	24:BA:2458:G:C2	2.88	0.62
24:BA:2720:U:H2'	24:BA:2720:U:O2	1.98	0.62
24:BA:295:G:H3'	24:BA:338:G:N1	2.12	0.62
24:BA:323:G:OP2	24:BA:340:A:N1	2.32	0.62
24:BA:336:C:O2'	24:BA:337:C:H5'	1.97	0.62
24:BA:56:A:H2'	24:BA:57:C:C6	2.33	0.62
24:BA:621:A:N7	24:BA:622:G:C4'	2.62	0.62
24:BA:749:C:C4	24:BA:750:A:N7	2.67	0.62
24:BA:99:U:H5'	24:BA:101:G:C5'	2.29	0.62
25:BB:69:G:C2	25:BB:70:C:C6	2.87	0.62
27:BD:147:LEU:H	27:BD:154:LYS:CD	2.12	0.62
27:BD:155:LEU:HG	27:BD:155:LEU:O	2.00	0.62
24:BA:2820:A:N6	28:BE:191:PRO:HB3	2.14	0.62
28:BE:64:LYS:C	28:BE:66:HIS:N	2.49	0.62
28:BE:98:PRO:HB2	28:BE:173:VAL:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:41:LEU:O	29:BF:44:ARG:CZ	2.47	0.62
24:BA:675:A:H4'	29:BF:67:GLN:CD	2.19	0.62
30:BG:130:ASN:O	30:BG:159:VAL:O	2.17	0.62
30:BG:43:LEU:CD1	30:BG:90:LEU:H	2.12	0.62
33:BL:7:VAL:HA	33:BL:58:THR:HB	1.81	0.62
33:BL:9:LYS:HE2	33:BL:56:GLU:OE2	1.98	0.62
36:BO:81:GLN:OE1	36:BO:86:LYS:HE3	1.99	0.62
39:BR:13:ARG:NH1	39:BR:94:TYR:OH	2.32	0.62
41:BT:5:LYS:O	41:BT:7:GLY:N	2.33	0.62
42:BU:100:ARG:N	42:BU:100:ARG:HE	1.97	0.62
42:BU:12:TYR:CG	42:BU:13:ARG:N	2.65	0.62
43:BV:64:MET:HB3	43:BV:109:GLU:HB3	1.80	0.62
44:BW:26:TYR:HE1	44:BW:83:VAL:HG12	1.64	0.62
46:BY:168:GLU:O	46:BY:169:GLU:HB3	1.98	0.62
46:BY:2:GLU:OE2	46:BY:58:VAL:HB	1.99	0.62
1:AA:1163:C:H2'	1:AA:1164:G:C5'	2.27	0.62
1:AA:1074:G:C2	1:AA:1075:C:H1'	2.35	0.62
1:AA:1215:G:C2	1:AA:1216:G:C8	2.86	0.62
1:AA:1287:A:C5	1:AA:1288:A:N6	2.67	0.62
1:AA:1389:C:H2'	1:AA:1390:U:O4'	1.98	0.62
1:AA:262:A:H2'	1:AA:263:A:C8	2.35	0.62
1:AA:736:C:H2'	1:AA:737:A:C8	2.34	0.62
1:AA:85:U:C2'	1:AA:86:U:H5'	2.29	0.62
2:AC:29:G:H5'	15:AP:118:ALA:O	1.99	0.62
4:AE:201:ILE:N	4:AE:201:ILE:HD12	2.14	0.62
4:AE:61:LEU:HA	4:AE:64:ARG:HD2	1.81	0.62
5:AF:84:ILE:O	5:AF:101:LEU:HD13	2.00	0.62
6:AG:105:VAL:HG21	6:AG:121:VAL:HG21	1.80	0.62
11:AL:87:GLN:O	11:AL:90:PRO:HD3	1.99	0.62
14:AO:36:VAL:HG22	14:AO:79:GLU:O	1.99	0.62
1:AA:669:U:O4'	17:AR:46:HIS:HE1	1.82	0.62
18:AS:19:ILE:HB	18:AS:37:GLY:C	2.20	0.62
22:AW:87:LYS:O	22:AW:88:VAL:C	2.38	0.62
48:B1:24:LYS:HZ3	48:B1:56:LEU:HD21	1.63	0.62
49:B2:5:LYS:NZ	49:B2:59:VAL:CG2	2.62	0.62
24:BA:2045:C:O2	51:B4:22:HIS:CE1	2.53	0.62
24:BA:1138:G:C2'	24:BA:1139:G:H5'	2.28	0.62
24:BA:1183:G:C3'	24:BA:1183:G:P	2.87	0.62
24:BA:1424:G:C2'	24:BA:1425:G:O5'	2.47	0.62
24:BA:143:C:H2'	24:BA:144:C:H6	1.63	0.62
24:BA:1467:C:C4	24:BA:1468:C:N4	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:118:A:H1'	24:BA:178:G:C4'	2.29	0.62
24:BA:1825:A:H2'	24:BA:1825:A:N3	2.13	0.62
24:BA:1936:A:H5''	24:BA:1937:A:O4'	1.98	0.62
24:BA:2227:A:H8	24:BA:2227:A:O5'	1.82	0.62
24:BA:2259:G:C6	24:BA:2282:G:O6	2.52	0.62
24:BA:2423:U:C1'	24:BA:2425:A:N7	2.63	0.62
24:BA:2683:C:C4'	28:BE:19:ARG:NH1	2.53	0.62
24:BA:270(B):A:H1'	24:BA:270(C):C:C5	2.34	0.62
24:BA:270(S):G:C2	24:BA:270(T):G:C8	2.88	0.62
24:BA:2733:A:N3	28:BE:204:ALA:HB3	2.13	0.62
24:BA:2749:A:H2	24:BA:2757:A:N1	1.92	0.62
24:BA:2777:G:H4'	24:BA:2778:A:C5'	2.28	0.62
24:BA:2870:C:O2	24:BA:2871:C:H1'	2.00	0.62
24:BA:297:C:C3'	24:BA:298:G:C8	2.81	0.62
24:BA:404:C:H4'	24:BA:406:G:C8	2.34	0.62
24:BA:507:A:H8	24:BA:507:A:O5'	1.82	0.62
24:BA:558:G:H2'	24:BA:559:G:C5'	2.29	0.62
24:BA:60:G:C8	24:BA:63:U:O4	2.52	0.62
24:BA:618(A):C:N4	24:BA:619:G:N2	2.47	0.62
24:BA:885:C:H42	24:BA:889:C:C1'	2.12	0.62
24:BA:920:G:H2'	24:BA:921:G:H8	1.63	0.62
27:BD:148:GLU:CD	27:BD:154:LYS:HZ2	2.02	0.62
27:BD:61:LEU:CD2	27:BD:62:TYR:N	2.62	0.62
28:BE:147:PRO:HD2	28:BE:148:GLY:H	1.64	0.62
28:BE:51:PHE:CD1	28:BE:76:ARG:HG2	2.34	0.62
30:BG:33:ARG:HH21	30:BG:34:LEU:N	1.96	0.62
31:BH:117:PRO:HB3	31:BH:121:ILE:HG12	1.81	0.62
32:BK:31:LEU:HD11	32:BK:36:ALA:HB3	1.81	0.62
33:BL:104:VAL:CG2	33:BL:127:ILE:HG21	2.28	0.62
34:BM:26:LEU:O	34:BM:30:ILE:CD1	2.44	0.62
35:BN:97:ARG:HA	35:BN:97:ARG:NH2	2.10	0.62
37:BP:122:GLY:HA2	37:BP:125:LEU:HB2	1.81	0.62
24:BA:2484:G:O2'	37:BP:124:LYS:HE3	1.99	0.62
37:BP:124:LYS:HE2	37:BP:125:LEU:HA	1.81	0.62
38:BQ:73:VAL:O	38:BQ:74:LYS:C	2.37	0.62
39:BR:12:PHE:CG	39:BR:13:ARG:N	2.67	0.62
40:BS:50:ILE:CD1	40:BS:66:VAL:HB	2.28	0.62
41:BT:105:VAL:HA	41:BT:108:GLU:CD	2.19	0.62
41:BT:57:PHE:HA	41:BT:60:LEU:HD22	1.81	0.62
42:BU:3:ALA:HB3	42:BU:12:TYR:CE2	2.34	0.62
43:BV:35:ILE:HD12	51:B4:27:PRO:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:1:MET:CG	45:BX:67:LEU:HD22	2.29	0.62
45:BX:84:ARG:O	45:BX:84:ARG:CZ	2.47	0.62
45:BX:95:LYS:HG3	45:BX:103:GLY:HA3	1.80	0.62
46:BY:136:PHE:HB3	46:BY:138:GLU:CD	2.19	0.62
46:BY:79:ARG:O	46:BY:80:ARG:HG3	1.98	0.62
47:BZ:44:ARG:HA	47:BZ:46:LYS:NZ	2.14	0.62
3:AD:48:C:C4	3:AD:59:U:H2'	2.35	0.62
24:BA:2178:C:H2'	24:BA:2179:C:C6	2.34	0.62
26:BC:29:VAL:CG1	26:BC:30:LYS:N	2.61	0.62
3:AD:54:U:H4'	26:BC:54:SER:OG	1.98	0.62
26:BC:77:ILE:CG2	26:BC:96:GLY:HA2	2.24	0.62
1:AA:342:C:H2'	1:AA:343:U:C6	2.31	0.62
24:BA:986:C:H6	24:BA:986:C:O5'	1.80	0.62
27:BD:78:LYS:HE2	27:BD:114:GLY:O	1.99	0.62
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.60	0.62
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.64	0.62
1:AA:1404:C:C1'	1:AA:1499:A:N1	2.62	0.62
1:AA:145:G:N1	1:AA:178:C:C4	2.66	0.62
1:AA:300:A:H2'	1:AA:301:G:C5'	2.29	0.62
1:AA:366:C:O2'	1:AA:367:U:P	2.57	0.62
1:AA:464:G:H2'	1:AA:467:G:O6	2.00	0.62
1:AA:655:A:H2'	1:AA:656:C:C6	2.33	0.62
1:AA:953:G:O2'	1:AA:954:G:H5'	1.99	0.62
4:AE:48:MET:HA	4:AE:51:LEU:CD1	2.29	0.62
4:AE:61:LEU:O	4:AE:64:ARG:HD2	1.99	0.62
4:AE:95:GLN:CG	4:AE:148:TYR:HB3	2.29	0.62
5:AF:120:VAL:HG21	5:AF:137:ALA:HB2	1.81	0.62
5:AF:6:HIS:CD2	5:AF:8:ILE:HG22	2.33	0.62
8:AI:24:GLU:HA	8:AI:27:GLN:HG2	1.80	0.62
10:AK:91:ARG:HH11	19:AT:33:GLY:N	1.97	0.62
11:AL:37:PHE:N	11:AL:37:PHE:HD2	1.97	0.62
12:AM:24:VAL:HG13	12:AM:34:VAL:CG1	2.29	0.62
1:AA:973:G:H1'	12:AM:55:LYS:N	2.14	0.62
1:AA:35:G:N2	14:AO:118:SER:OG	2.31	0.62
22:AW:12:ALA:C	22:AW:14:LYS:N	2.52	0.62
49:B2:4:LEU:CD2	49:B2:56:VAL:HG22	2.26	0.62
49:B2:6:VAL:HG13	49:B2:55:ARG:C	2.19	0.62
50:B3:56:VAL:O	50:B3:61:ARG:NH2	2.33	0.62
51:B4:40:LYS:HZ3	51:B4:43:HIS:HA	1.64	0.62
54:B7:50:LEU:CG	54:B7:51:ALA:N	2.61	0.62
24:BA:1000:A:N7	24:BA:1001:A:C6	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1069:A:C5'	24:BA:1070:A:O5'	2.47	0.62
24:BA:1071:G:O4'	24:BA:1089:G:N7	2.33	0.62
24:BA:1100:C:H2'	24:BA:1101:U:C6	2.34	0.62
24:BA:1223:C:C4	24:BA:1227:A:N6	2.65	0.62
24:BA:1254:A:H5'	24:BA:1255:U:C5'	2.23	0.62
24:BA:150:C:O2	24:BA:150:C:H2'	1.98	0.62
24:BA:1561:G:H8	24:BA:1561:G:O5'	1.83	0.62
24:BA:1571:A:C8	24:BA:1571:A:OP2	2.52	0.62
24:BA:1619:G:C2	24:BA:1620:G:C4	2.88	0.62
24:BA:1735:C:N3	24:BA:1741:C:N4	2.46	0.62
24:BA:1753:G:O6	24:BA:1756:G:C6	2.52	0.62
24:BA:1791:A:P	27:BD:213:ARG:HD3	2.39	0.62
24:BA:1947:C:C2'	24:BA:1948:G:H5'	2.29	0.62
24:BA:2051:A:C5	24:BA:2614:A:N7	2.66	0.62
24:BA:2055:C:H4'	24:BA:2056:G:C5'	2.29	0.62
24:BA:2075:U:C2'	24:BA:2076:U:H5'	2.25	0.62
24:BA:2311:A:H2	30:BG:45:GLU:CD	2.02	0.62
24:BA:2572:A:H4'	24:BA:2573:C:H5"	1.80	0.62
24:BA:1456:G:H1	24:BA:2703:C:H42	1.46	0.62
24:BA:511:U:C4	24:BA:512:G:N3	2.67	0.62
24:BA:530:G:O2'	24:BA:531:C:OP1	2.16	0.62
24:BA:545:G:O2'	24:BA:548:A:N6	2.32	0.62
24:BA:671:C:H3'	36:BO:38:GLN:OE1	1.99	0.62
24:BA:672:C:OP2	36:BO:38:GLN:CD	2.38	0.62
24:BA:727:A:H2	27:BD:16:MET:HG3	1.64	0.62
24:BA:834:C:H1'	24:BA:2358:G:C2	2.35	0.62
24:BA:869:G:N1	24:BA:909:A:N6	2.46	0.62
24:BA:90:U:H4'	24:BA:91:A:O5'	1.98	0.62
24:BA:928:G:H2'	49:B2:43:ILE:HD11	1.81	0.62
27:BD:157:ARG:HB3	27:BD:160:GLY:CA	2.29	0.62
27:BD:8:PRO:C	27:BD:25:THR:HA	2.18	0.62
27:BD:75:ILE:HG22	27:BD:98:VAL:HB	1.80	0.62
28:BE:146:THR:CB	28:BE:147:PRO:HD3	2.26	0.62
29:BF:89:VAL:HG12	29:BF:90:PHE:N	2.14	0.62
30:BG:138:GLN:HG3	30:BG:155:MET:HE2	1.80	0.62
31:BH:78:GLY:O	31:BH:81:GLU:N	2.33	0.62
33:BL:115:LEU:HD11	33:BL:122:ALA:HB1	1.81	0.62
36:BO:16:ARG:C	36:BO:16:ARG:HD2	2.19	0.62
39:BR:103:GLU:HA	39:BR:106:ARG:HB2	1.82	0.62
39:BR:28:VAL:CG2	39:BR:101:LEU:HG	2.29	0.62
39:BR:9:ARG:NE	39:BR:12:PHE:CE2	2.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:58:ASN:N	40:BS:61:PHE:CE2	2.68	0.62
41:BT:95:LEU:O	41:BT:106:PHE:CE1	2.53	0.62
41:BT:47:TYR:HE2	42:BU:75:PHE:CB	2.12	0.62
42:BU:3:ALA:HA	42:BU:44:LYS:CE	2.29	0.62
42:BU:64:HIS:HB3	42:BU:96:ILE:HA	1.80	0.62
43:BV:10:VAL:HG23	43:BV:12:ILE:HD11	1.80	0.62
43:BV:88:ARG:HA	43:BV:88:ARG:HE	1.62	0.62
44:BW:40:LYS:O	44:BW:51:VAL:HG21	1.99	0.62
46:BY:104:PHE:CZ	46:BY:120:ILE:CG2	2.82	0.62
47:BZ:44:ARG:HE	47:BZ:77:ARG:NE	1.98	0.62
24:BA:2126:A:H4'	24:BA:2127:G:O5'	1.97	0.62
26:BC:161:ILE:HG21	26:BC:174:PRO:O	1.99	0.62
26:BC:4:GLY:O	26:BC:5:LYS:HG3	1.99	0.62
26:BC:74:VAL:HG13	26:BC:112:ALA:C	2.19	0.62
24:BA:1416:G:H1'	24:BA:1583:A:N6	2.15	0.62
1:AA:1004:A:H3'	1:AA:1025:U:H3	1.63	0.62
1:AA:1004:A:H4'	1:AA:1005:A:OP1	1.99	0.62
26:BC:20:TYR:HE1	26:BC:222:VAL:CG1	2.12	0.62
1:AA:344:A:O2'	1:AA:345:C:P	2.56	0.62
1:AA:1157:A:N9	1:AA:1181:G:N2	2.35	0.62
1:AA:1256:A:O3'	1:AA:1257:U:C4'	2.47	0.62
1:AA:1413:A:N6	1:AA:1488:G:C6	2.67	0.62
1:AA:130:A:H4'	1:AA:190:G:C4	2.35	0.62
1:AA:194:C:O3'	22:AW:68:LYS:NZ	2.33	0.62
1:AA:236:G:H3'	1:AA:237:C:C6	2.30	0.62
1:AA:236:G:H5'	19:AT:42:TYR:OH	2.00	0.62
1:AA:322:C:C2'	1:AA:323:U:H5'	2.28	0.62
1:AA:49:U:O4	1:AA:362:G:C2	2.52	0.62
1:AA:854:G:C2	1:AA:855:G:C8	2.87	0.62
1:AA:892:A:H2'	1:AA:893:C:C6	2.34	0.62
1:AA:97:U:N3	1:AA:99:C:N4	2.47	0.62
2:AC:18:G:N1	2:AC:57:A:C6	2.66	0.62
2:AC:31:G:O3'	11:AL:127:LYS:O	2.17	0.62
2:AC:37:A:C4	2:AC:38:A:N7	2.67	0.62
2:AC:76:A:H62	24:BA:2585:U:H1'	1.62	0.62
3:AD:4:G:O4'	24:BA:1851:U:OP1	2.17	0.62
4:AE:19:HIS:C	4:AE:39:ILE:HD11	2.20	0.62
4:AE:56:ARG:O	4:AE:59:GLU:HG3	2.00	0.62
4:AE:75:LYS:HE3	4:AE:75:LYS:C	2.20	0.62
5:AF:146:ALA:C	5:AF:147:LYS:HD2	2.18	0.62
6:AG:135:LEU:O	6:AG:137:SER:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:78:HIS:ND1	10:AK:104:ARG:HD3	2.14	0.62
1:AA:1240:U:OP2	9:AJ:115:ARG:HA	1.98	0.62
9:AJ:130:GLY:O	9:AJ:131:LYS:HB3	1.99	0.62
9:AJ:74:GLU:OE2	9:AJ:75:VAL:O	2.17	0.62
10:AK:45:ILE:O	10:AK:45:ILE:HG12	1.99	0.62
10:AK:6:ILE:CD1	10:AK:85:ARG:CZ	2.77	0.62
11:AL:38:GLN:O	11:AL:40:LEU:N	2.32	0.62
14:AO:61:THR:O	14:AO:62:SER:OG	2.17	0.62
12:AM:64:GLU:HG3	16:AQ:59:ALA:HB2	1.82	0.62
17:AR:18:PHE:O	17:AR:20:GLY:N	2.33	0.62
17:AR:63:ARG:O	17:AR:67:LEU:HG	1.99	0.62
17:AR:80:ALA:O	17:AR:83:GLU:HB3	2.00	0.62
1:AA:130:A:C8	19:AT:63:ARG:HG3	2.35	0.62
19:AT:75:ARG:NH2	19:AT:77:VAL:HG22	2.15	0.62
21:AV:46:GLY:O	21:AV:47:HIS:ND1	2.32	0.62
21:AV:5:LEU:HB2	21:AV:9:VAL:CG2	2.24	0.62
49:B2:16:PRO:HG2	49:B2:19:GLN:CB	2.29	0.62
24:BA:1074:G:H8	24:BA:1074:G:O5'	1.82	0.62
24:BA:119:A:H4'	24:BA:120:U:H5'	1.80	0.62
24:BA:1204:A:P	24:BA:1204:A:O4'	2.58	0.62
24:BA:1216:G:H2'	24:BA:1217:C:H6	1.63	0.62
24:BA:1321:A:C2	24:BA:1322:A:C1'	2.82	0.62
24:BA:1344:G:C2'	24:BA:1345:C:OP1	2.47	0.62
24:BA:1420:U:H1'	24:BA:1421:G:N7	2.13	0.62
24:BA:1439:A:H2'	24:BA:1440:G:H5'	1.81	0.62
24:BA:1477:A:C3'	24:BA:1478:G:O4'	2.47	0.62
24:BA:1272:A:N1	24:BA:1618:A:C2	2.67	0.62
24:BA:1684:C:C2	24:BA:1685:C:C5	2.88	0.62
24:BA:752:A:N6	24:BA:1781:C:C4'	2.63	0.62
24:BA:1835:G:N3	24:BA:1931:U:N3	2.48	0.62
24:BA:2230:G:C4	50:B3:58:ARG:NH2	2.68	0.62
24:BA:2307:G:C5	24:BA:2308:G:N3	2.67	0.62
24:BA:245:G:H1	24:BA:253:C:H42	1.48	0.62
24:BA:2468:G:H3'	24:BA:2476:A:N1	2.14	0.62
24:BA:2516:G:C4	24:BA:2569:G:N2	2.67	0.62
24:BA:2531:A:H2'	24:BA:2532:G:O5'	2.00	0.62
24:BA:2577:A:H5''	24:BA:2578:G:H5'	1.80	0.62
24:BA:2616:C:H2'	24:BA:2617:C:H6	1.65	0.62
24:BA:2624:G:H2'	24:BA:2625:G:H5''	1.81	0.62
24:BA:2710:C:C3'	24:BA:2711:A:H5''	2.29	0.62
24:BA:2733:A:C2'	24:BA:2734:A:O4'	2.44	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2752:C:H2'	24:BA:2753:A:H5'	1.79	0.62
24:BA:389:G:C6	36:BO:64:LYS:HG2	2.33	0.62
24:BA:499:U:H5	24:BA:500:G:N3	1.97	0.62
24:BA:51:G:H2'	24:BA:119:A:C2	2.34	0.62
25:BB:12:C:H3'	47:BZ:74:ARG:HG2	1.81	0.62
25:BB:18:G:H1'	25:BB:67:G:H22	1.64	0.62
25:BB:53:A:C6	25:BB:54:G:C8	2.88	0.62
27:BD:181:GLU:OE2	27:BD:270:ILE:CG2	2.44	0.62
28:BE:22:PRO:CA	28:BE:185:LYS:H	2.11	0.62
28:BE:54:GLN:HG3	28:BE:56:PRO:HD2	1.80	0.62
29:BF:118:ALA:HB2	29:BF:122:LYS:HE2	1.81	0.62
30:BG:57:ALA:HB2	30:BG:68:PRO:O	2.00	0.62
2:AC:19:G:H21	30:BG:82:LEU:HD13	1.65	0.62
31:BH:101:ARG:NE	31:BH:101:ARG:HA	2.15	0.62
31:BH:127:GLU:HG3	31:BH:130:ARG:N	2.13	0.62
31:BH:58:GLU:OE1	31:BH:60:ARG:HB3	2.00	0.62
34:BM:51:PHE:HA	34:BM:119:ARG:O	2.00	0.62
35:BN:58:VAL:HG21	35:BN:88:ASN:CA	2.26	0.62
36:BO:114:ILE:N	36:BO:129:ALA:O	2.28	0.62
36:BO:79:ARG:O	36:BO:83:VAL:HG13	1.99	0.62
37:BP:22:LYS:NZ	37:BP:101:ARG:HE	1.97	0.62
37:BP:22:LYS:CG	37:BP:23:GLY:N	2.58	0.62
37:BP:6:ARG:CB	37:BP:44:ALA:CB	2.75	0.62
39:BR:24:LEU:HD11	39:BR:39:ILE:HB	1.82	0.62
40:BS:111:ARG:HA	40:BS:114:LEU:CG	2.29	0.62
40:BS:17:THR:CG2	40:BS:20:PRO:HG3	2.24	0.62
42:BU:15:GLU:CD	42:BU:16:PRO:HD3	2.19	0.62
43:BV:33:ARG:C	43:BV:33:ARG:NH2	2.52	0.62
44:BW:24:GLY:O	44:BW:83:VAL:HG13	1.99	0.62
44:BW:47:PHE:HB3	44:BW:49:VAL:CG1	2.29	0.62
44:BW:54:VAL:HG22	44:BW:81:VAL:CB	2.29	0.62
45:BX:76:CYS:HB3	45:BX:100:ALA:CB	2.27	0.62
26:BC:182:PRO:HG2	26:BC:183:GLU:CD	2.20	0.62
26:BC:173:ALA:HB3	26:BC:192:PHE:HE2	1.64	0.62
3:AD:62:C:O2'	26:BC:53:ARG:HD2	1.99	0.62
13:AN:121:PRO:HB2	13:AN:125:PHE:CD1	2.34	0.62
24:BA:2462:U:C4	24:BA:2463:C:N4	2.68	0.62
1:AA:1187:G:H1'	16:AQ:61:TRP:OXT	1.99	0.62
1:AA:1299:A:N7	1:AA:1301:U:C1'	2.62	0.62
1:AA:1395:C:H2'	1:AA:1396:A:H8	1.63	0.62
1:AA:291:C:H3'	1:AA:305:G:N2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:40:C:C2	1:AA:41:G:C8	2.88	0.62
1:AA:794:A:C6	1:AA:795:C:N4	2.68	0.62
1:AA:834:C:H2'	1:AA:835:U:O4'	1.99	0.62
1:AA:889:A:H5'	1:AA:891:U:O4'	1.99	0.62
1:AA:965:A:C8	1:AA:969:A:C4	2.88	0.62
3:AD:2:C:H2'	3:AD:3:C:C6	2.33	0.62
4:AE:118:LEU:HD11	4:AE:141:GLU:OE1	2.00	0.62
4:AE:212:GLN:HB3	4:AE:235:SER:OG	1.99	0.62
4:AE:80:ILE:HG21	4:AE:211:ILE:HG22	1.82	0.62
4:AE:82:ARG:O	4:AE:86:GLU:HG3	1.99	0.62
4:AE:81:VAL:HG12	4:AE:92:TYR:CD1	2.34	0.62
6:AG:206:PHE:HD2	6:AG:207:TYR:CD1	2.17	0.62
9:AJ:113:GLU:HB2	9:AJ:118:VAL:HG11	1.80	0.62
10:AK:101:PRO:O	10:AK:102:ARG:CB	2.48	0.62
11:AL:74:ILE:O	11:AL:77:ILE:HB	1.99	0.62
15:AP:60:VAL:HA	15:AP:63:THR:HB	1.81	0.62
16:AQ:26:ARG:NH1	16:AQ:47:LEU:HG	2.13	0.62
12:AM:61:GLU:HG2	16:AQ:58:LYS:HZ3	1.63	0.62
50:B3:6:HIS:CE1	50:B3:55:ARG:HD3	2.33	0.62
54:B7:34:TRP:CE3	54:B7:36:LYS:HD3	2.34	0.62
54:B7:40:GLU:O	54:B7:43:GLN:OE1	2.17	0.62
24:BA:1632:A:N3	24:BA:1633:G:N2	2.48	0.62
24:BA:1675:C:O2	24:BA:1675:C:C2'	2.46	0.62
24:BA:1716:U:H1'	24:BA:1746:G:N2	2.14	0.62
24:BA:1789:A:O2'	27:BD:222:ARG:NH2	2.33	0.62
24:BA:1815:A:O4'	24:BA:1817:G:H1'	1.99	0.62
24:BA:1858:G:O2'	24:BA:1859:A:O5'	2.16	0.62
24:BA:2016:U:C5'	24:BA:2058:A:OP1	2.48	0.62
24:BA:231:C:C4	24:BA:232:G:C2	2.86	0.62
24:BA:2333:A:H4'	24:BA:2335:A:O4'	2.00	0.62
24:BA:2492:U:O2'	24:BA:2493:U:OP1	2.17	0.62
24:BA:2553:G:N2	24:BA:2554:U:C2'	2.63	0.62
24:BA:1782:C:O2	24:BA:2609:U:C6	2.53	0.62
24:BA:265:A:C8	24:BA:266:G:C1'	2.82	0.62
24:BA:2675:A:O2'	24:BA:2676:C:H5'	2.00	0.62
24:BA:270(E):G:OP2	24:BA:270(E):G:C8	2.53	0.62
24:BA:2739:U:O2	24:BA:2740:A:C8	2.53	0.62
24:BA:312:G:O4'	24:BA:312:G:P	2.58	0.62
24:BA:389:G:OP2	50:B3:24:THR:OG1	2.09	0.62
24:BA:494:G:C2	24:BA:495:G:C8	2.88	0.62
24:BA:596:G:C2	24:BA:597:U:C2	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:627:A:C4'	24:BA:627:A:OP2	2.48	0.62
24:BA:816:C:H5'	24:BA:816:C:C6	2.35	0.62
27:BD:146:GLU:OE2	27:BD:150:LYS:N	2.32	0.62
28:BE:55:ASN:HD22	28:BE:58:ARG:HH21	1.46	0.62
28:BE:59:VAL:CG1	28:BE:62:PRO:HD2	2.29	0.62
15:AP:3:ARG:HH21	30:BG:141:PHE:H	1.48	0.62
30:BG:63:ILE:HG13	30:BG:102:PHE:HZ	1.65	0.62
30:BG:71:THR:O	30:BG:71:THR:HG23	1.98	0.62
31:BH:40:GLU:OE2	31:BH:41:MET:HG2	1.98	0.62
32:BK:2:LYS:C	32:BK:38:LEU:HD22	2.20	0.62
33:BL:81:ALA:CB	33:BL:107:ILE:HD13	2.29	0.62
33:BL:115:LEU:HD21	33:BL:126:MET:SD	2.39	0.62
33:BL:98:ARG:HD3	33:BL:139:VAL:HB	1.82	0.62
34:BM:13:TRP:CD1	34:BM:51:PHE:HB3	2.35	0.62
34:BM:99:LEU:HD12	34:BM:100:GLU:N	2.14	0.62
35:BN:90:GLN:O	35:BN:91:LEU:C	2.37	0.62
39:BR:95:HIS:CA	39:BR:99:LYS:HB2	2.29	0.62
39:BR:96:GLY:O	39:BR:97:ARG:C	2.38	0.62
40:BS:110:ILE:HD13	40:BS:113:LYS:HZ2	1.64	0.62
40:BS:64:ARG:CZ	40:BS:77:PRO:CB	2.78	0.62
35:BN:77:ILE:CG1	40:BS:65:LYS:HE2	2.26	0.62
42:BU:17:GLY:HA3	42:BU:19:LYS:HZ3	1.63	0.62
42:BU:62:LEU:HD22	42:BU:99:ILE:N	2.10	0.62
42:BU:72:VAL:O	42:BU:89:GLN:HB3	1.99	0.62
43:BV:76:VAL:HG22	43:BV:77:ASP:N	2.12	0.62
46:BY:10:ARG:NH1	46:BY:36:LYS:H	1.98	0.62
46:BY:47:VAL:HG12	46:BY:53:ILE:HG21	1.82	0.62
46:BY:55:HIS:HB2	46:BY:101:PRO:HD3	1.81	0.62
47:BZ:44:ARG:CG	47:BZ:77:ARG:HG3	2.27	0.62
47:BZ:68:GLU:CD	47:BZ:82:ARG:HB2	2.20	0.62
26:BC:134:ARG:NH1	26:BC:136:LEU:CD1	2.63	0.62
26:BC:90:GLY:O	26:BC:153:ILE:HG22	2.00	0.62
26:BC:177:LYS:HE2	26:BC:178:ALA:H	1.63	0.62
26:BC:210:ARG:HG2	26:BC:210:ARG:HH11	1.64	0.62
26:BC:216:THR:HG1	26:BC:219:GLY:HA3	1.65	0.62
26:BC:47:LEU:HD23	26:BC:47:LEU:N	2.04	0.62
1:AA:1002:G:OP2	1:AA:1002:G:O4'	2.18	0.62
1:AA:1003:G:N1	1:AA:1038:C:C2	2.68	0.62
27:BD:111:LEU:HB3	27:BD:115:GLN:NE2	2.15	0.62
1:AA:1011:G:H2'	1:AA:1012:U:C5'	2.21	0.62
1:AA:108:G:O6	22:AW:15:ARG:HD2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1241:G:O2'	1:AA:1242:C:H5'	1.99	0.62
1:AA:1248:A:C2	1:AA:1249:C:N3	2.68	0.62
1:AA:1285:A:H4'	1:AA:1286:A:O5'	2.00	0.62
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.65	0.62
1:AA:306:G:N2	1:AA:307:C:H1'	2.13	0.62
1:AA:682:G:C2	1:AA:683:G:C8	2.87	0.62
1:AA:738:C:N4	1:AA:739:C:H41	1.98	0.62
1:AA:753:A:H4'	1:AA:754:C:O2	2.00	0.62
1:AA:918:A:H2'	1:AA:919:A:O4'	1.99	0.62
1:AA:976:G:OP1	16:AQ:32:SER:HA	1.99	0.62
2:AC:33:U:H2'	2:AC:35:A:OP2	2.00	0.62
2:AC:74:C:N4	24:BA:2253:G:N2	2.45	0.62
4:AE:80:ILE:HD11	4:AE:208:ILE:HG23	1.81	0.62
5:AF:139:GLN:CA	5:AF:170:GLN:HE22	2.12	0.62
5:AF:24:ALA:HB1	5:AF:28:GLN:OE1	1.99	0.62
1:AA:411:A:OP2	6:AG:25:ARG:NH2	2.32	0.62
8:AI:15:ASP:O	8:AI:19:LEU:HD12	1.98	0.62
8:AI:40:VAL:HA	8:AI:63:TYR:HD1	1.65	0.62
11:AL:15:ALA:CB	11:AL:77:ILE:N	2.62	0.62
12:AM:27:ALA:HB2	12:AM:85:LEU:HD21	1.82	0.62
15:AP:91:ARG:NH1	15:AP:96:LEU:HB2	2.15	0.62
17:AR:62:GLN:CA	17:AR:65:ARG:HH22	2.10	0.62
17:AR:79:ARG:NH1	17:AR:79:ARG:CB	2.63	0.62
1:AA:659:U:OP1	17:AR:9:GLN:NE2	2.33	0.62
18:AS:5:ARG:NH1	18:AS:24:ALA:HA	2.09	0.62
18:AS:36:ILE:HG21	18:AS:55:ARG:HB3	1.80	0.62
19:AT:46:ASP:OD2	19:AT:48:GLU:OE1	2.17	0.62
22:AW:49:ALA:HB1	22:AW:99:LEU:HG	1.78	0.62
52:B5:19:ARG:CG	52:B5:19:ARG:O	2.47	0.62
24:BA:1198:U:C2	24:BA:1199:U:C5	2.88	0.62
24:BA:1238:G:C2	24:BA:1239:G:C4	2.87	0.62
24:BA:1437:C:HO2'	24:BA:1516:U:HO2'	1.46	0.62
24:BA:1380:G:O2'	24:BA:1569:A:N6	2.33	0.62
24:BA:1618:A:O2'	24:BA:1619:G:OP1	2.10	0.62
24:BA:1799:G:H2'	24:BA:1800:C:O5'	1.97	0.62
24:BA:2047:U:O2'	24:BA:2048:G:C5'	2.47	0.62
24:BA:2243:U:H2'	24:BA:2244:U:O4'	1.98	0.62
24:BA:2263:C:O2'	24:BA:2264:C:H5'	1.99	0.62
24:BA:966:G:C1'	24:BA:2267:A:N6	2.62	0.62
24:BA:2285:C:H4'	24:BA:2288:A:C6	2.35	0.62
24:BA:2358:G:N3	24:BA:2358:G:H2'	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2378:A:C5'	24:BA:2379:G:OP2	2.47	0.62
24:BA:2461:C:H1'	24:BA:2492:U:C4	2.31	0.62
24:BA:2832:U:C2'	24:BA:2879:C:N4	2.62	0.62
24:BA:292:C:C3'	24:BA:293:U:C4	2.74	0.62
24:BA:298:G:H8	24:BA:298:G:P	2.22	0.62
24:BA:407:G:H2'	24:BA:408:G:N7	2.15	0.62
24:BA:411:G:C5'	24:BA:2407:G:OP1	2.48	0.62
24:BA:446:G:H8	24:BA:446:G:OP2	1.82	0.62
24:BA:631:A:C2	24:BA:2416:C:O4'	2.52	0.62
24:BA:730:C:H5''	24:BA:763:G:OP1	1.99	0.62
24:BA:801:G:O2'	24:BA:802:A:OP1	2.14	0.62
24:BA:989:G:P	49:B2:10:LYS:CE	2.88	0.62
25:BB:99:A:N1	25:BB:100:G:C4	2.67	0.62
27:BD:228:PRO:HG3	27:BD:235:GLY:N	2.14	0.62
27:BD:59:LYS:HD2	27:BD:60:ARG:N	2.14	0.62
28:BE:5:LEU:HD23	28:BE:26:ILE:H	1.63	0.62
28:BE:30:PRO:CG	28:BE:90:THR:HG22	2.27	0.62
29:BF:133:ASN:C	29:BF:162:LEU:HB3	2.19	0.62
30:BG:37:VAL:HG13	30:BG:158:ALA:O	2.00	0.62
30:BG:38:VAL:HG12	30:BG:93:THR:HA	1.82	0.62
30:BG:45:GLU:C	30:BG:47:LYS:N	2.48	0.62
31:BH:27:LYS:HG2	31:BH:32:GLU:CB	2.29	0.62
33:BL:103:GLN:HA	33:BL:106:GLU:OE2	1.99	0.62
34:BM:109:LYS:CG	34:BM:112:LEU:HB2	2.15	0.62
35:BN:25:LEU:HD13	35:BN:38:VAL:HB	1.82	0.62
35:BN:68:GLU:CG	35:BN:68:GLU:O	2.43	0.62
36:BO:123:LEU:CB	36:BO:138:LEU:HB2	2.28	0.62
37:BP:27:VAL:HA	37:BP:138:ASP:OD2	2.00	0.62
37:BP:34:LEU:CD1	37:BP:67:ARG:HH22	2.13	0.62
37:BP:94:VAL:HG23	37:BP:95:ALA:O	2.00	0.62
38:BQ:79:LEU:HD23	38:BQ:80:PHE:CB	2.30	0.62
38:BQ:62:ALA:HB3	38:BQ:80:PHE:HZ	1.64	0.62
24:BA:2334:G:H21	39:BR:11:LYS:HE3	1.64	0.62
39:BR:13:ARG:NH1	39:BR:94:TYR:CE1	2.68	0.62
39:BR:3:ARG:CD	39:BR:4:LEU:N	2.63	0.62
24:BA:1009:A:O2'	41:BT:62:ILE:HG21	1.99	0.62
42:BU:5:VAL:N	42:BU:12:TYR:HD2	1.96	0.62
44:BW:62:LYS:O	44:BW:63:LYS:HB2	1.98	0.62
44:BW:82:GLN:CG	44:BW:83:VAL:N	2.61	0.62
24:BA:85:G:OP1	45:BX:8:LYS:HE2	2.00	0.62
26:BC:183:GLU:O	26:BC:186:ALA:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:176:GLY:HA3	26:BC:185:LEU:HA	1.82	0.62
1:AA:1261:A:N6	1:AA:1274:G:C1'	2.62	0.62
1:AA:1459:C:P	22:AW:27:LYS:HZ3	2.22	0.62
1:AA:186(A):C:N3	22:AW:105:SER:OG	2.32	0.62
1:AA:449:C:C2	1:AA:450:G:H1'	2.35	0.62
1:AA:44:G:O6	1:AA:399:G:C6	2.53	0.62
1:AA:52:G:H2'	1:AA:53:A:O4'	1.99	0.62
1:AA:564:C:H2'	1:AA:565:U:O4'	2.00	0.62
1:AA:688:G:C2'	1:AA:689:C:H5'	2.30	0.62
1:AA:87:A:H2'	1:AA:88:C:O4'	2.00	0.62
1:AA:958:A:O2'	1:AA:959:A:H5'	1.99	0.62
1:AA:979:C:O2	16:AQ:19:ARG:NE	2.33	0.62
2:AC:19:G:C2	2:AC:57:A:N3	2.68	0.62
4:AE:16:HIS:O	4:AE:204:ASN:N	2.30	0.62
5:AF:118:GLN:O	5:AF:122:GLU:HG3	2.00	0.62
6:AG:144:ASP:H	6:AG:185:PHE:HB3	1.65	0.62
7:AH:73:ASN:C	7:AH:73:ASN:ND2	2.52	0.62
10:AK:6:ILE:CG1	10:AK:85:ARG:CZ	2.77	0.62
10:AK:64:LYS:CG	10:AK:79:VAL:HG21	2.18	0.62
11:AL:89:ASN:ND2	11:AL:92:TYR:CE1	2.68	0.62
1:AA:1177:G:OP2	11:AL:93:ARG:NH2	2.32	0.62
13:AN:28:THR:HG22	13:AN:29:ILE:N	2.13	0.62
13:AN:99:GLN:HA	13:AN:105:VAL:HG22	1.82	0.62
15:AP:96:LEU:N	15:AP:96:LEU:HD23	2.13	0.62
17:AR:46:HIS:O	17:AR:48:LYS:N	2.32	0.62
19:AT:15:MET:HB2	19:AT:18:THR:HB	1.81	0.62
50:B3:51:ASP:O	50:B3:52:THR:OG1	2.15	0.62
50:B3:57:GLU:H	50:B3:61:ARG:HG3	1.65	0.62
24:BA:1270:C:C4'	24:BA:1271:G:H5'	2.29	0.62
24:BA:1313:U:OP2	24:BA:1313:U:C5	2.53	0.62
24:BA:1372:U:C2'	24:BA:1373:A:H5'	2.29	0.62
24:BA:1524:G:C4	24:BA:1525:G:C8	2.88	0.62
24:BA:1644:C:C2'	24:BA:1645:G:O5'	2.48	0.62
24:BA:1795:C:HO2'	24:BA:1796:U:H5'	1.65	0.62
24:BA:1995:U:C6	24:BA:1996:C:H5	2.18	0.62
24:BA:219:G:C2'	24:BA:220:G:H5'	2.29	0.62
24:BA:2228:G:N7	24:BA:2229:C:C6	2.67	0.62
24:BA:2369:A:H2'	24:BA:2370:G:C8	2.35	0.62
24:BA:2416:C:O5'	24:BA:2416:C:H6	1.83	0.62
24:BA:2562:U:H1'	35:BN:23:ARG:NH2	2.12	0.62
24:BA:286:C:H2'	24:BA:287:C:H6	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:319:C:N4	24:BA:320:A:N6	2.48	0.62
24:BA:349:G:H2'	24:BA:350:U:C5	2.34	0.62
24:BA:443:A:H4'	24:BA:1201:C:H5'	1.80	0.62
24:BA:684:G:C4	24:BA:775:G:O6	2.52	0.62
24:BA:783:A:H2'	24:BA:784:A:H5'	1.81	0.62
24:BA:823:G:H5'	24:BA:824:A:OP2	2.00	0.62
24:BA:664:C:H1'	24:BA:940:G:OP1	2.00	0.62
27:BD:63:ARG:CG	27:BD:63:ARG:HH11	2.13	0.62
28:BE:104:VAL:HG13	28:BE:105:THR:N	2.14	0.62
28:BE:142:GLY:C	28:BE:143:ASN:ND2	2.53	0.62
28:BE:148:GLY:O	28:BE:149:ARG:CB	2.47	0.62
28:BE:176:ILE:HG21	28:BE:181:LEU:HB2	1.80	0.62
28:BE:44:TYR:CD2	28:BE:45:THR:N	2.68	0.62
28:BE:88:GLY:O	28:BE:89:ASP:HB2	1.99	0.62
29:BF:201:VAL:HG11	29:BF:205:ARG:NH2	2.08	0.62
30:BG:9:ARG:HA	30:BG:12:TYR:CE2	2.34	0.62
31:BH:33:LEU:HD21	31:BH:35:VAL:HG13	1.82	0.62
33:BL:112:MET:SD	33:BL:115:LEU:HG	2.40	0.62
33:BL:52:ILE:CG1	33:BL:80:LYS:HG2	2.30	0.62
34:BM:13:TRP:O	34:BM:138:LEU:HB2	2.00	0.62
34:BM:36:GLY:HA2	34:BM:47:ALA:O	1.98	0.62
36:BO:76:LYS:NZ	36:BO:93:GLY:HA2	2.13	0.62
36:BO:77:ARG:HB2	36:BO:115:LEU:HD22	1.80	0.62
37:BP:134:ARG:HD3	37:BP:137:TYR:N	2.15	0.62
39:BR:14:VAL:HG12	39:BR:15:ARG:N	2.15	0.62
44:BW:12:VAL:HA	44:BW:29:TRP:HE1	1.65	0.62
44:BW:89:ILE:CG2	44:BW:92:LEU:HD22	2.23	0.62
46:BY:47:VAL:O	46:BY:48:PHE:C	2.38	0.62
47:BZ:82:ARG:NH1	47:BZ:83:PRO:HB2	2.14	0.62
26:BC:131:LEU:HB3	26:BC:136:LEU:CB	2.19	0.62
24:BA:274:G:O5'	24:BA:274:G:N3	2.33	0.62
1:AA:160:A:H2'	1:AA:161:A:O4'	2.00	0.62
27:BD:78:LYS:HG2	27:BD:114:GLY:O	1.99	0.62
24:BA:1116:C:O2	24:BA:1116:C:H2'	1.99	0.62
1:AA:1085:U:OP2	1:AA:1086:U:O4	2.18	0.62
1:AA:1085:U:O2'	1:AA:1086:U:OP1	2.12	0.62
1:AA:1158:C:C2'	1:AA:1158:C:O2	2.48	0.62
1:AA:1159:U:H5'	1:AA:1160:G:OP1	1.99	0.62
1:AA:1366:C:O2'	1:AA:1367:C:H5'	2.00	0.62
1:AA:308:C:C2	1:AA:309:G:C8	2.88	0.62
1:AA:432:A:N7	1:AA:433:C:C6	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:675:A:N1	1:AA:716:A:C2	2.68	0.62
1:AA:738:C:OP2	8:AI:92:LYS:CE	2.47	0.62
1:AA:866:C:C5	1:AA:867:G:H1'	2.34	0.62
1:AA:15:G:H1'	7:AH:19:MET:HG2	1.82	0.62
7:AH:71:LEU:C	7:AH:71:LEU:HD23	2.20	0.62
1:AA:932:C:C3'	9:AJ:3:ARG:HG3	2.29	0.62
9:AJ:72:ARG:CB	9:AJ:72:ARG:HH11	2.10	0.62
9:AJ:6:ARG:O	9:AJ:7:ALA:C	2.36	0.62
9:AJ:5:ARG:HD2	9:AJ:7:ALA:N	2.15	0.62
10:AK:122:ARG:O	10:AK:125:ARG:N	2.32	0.62
1:AA:826:C:H5'	10:AK:12:ARG:CZ	2.30	0.62
14:AO:84:LEU:HG	14:AO:85:ILE:H	1.65	0.62
15:AP:3:ARG:HB2	30:BG:141:PHE:CE1	2.34	0.62
15:AP:81:LEU:HD23	15:AP:89:GLY:CA	2.26	0.62
17:AR:76:GLU:HG3	17:AR:77:ARG:N	2.15	0.62
18:AS:23:ASP:O	18:AS:25:ARG:N	2.31	0.62
21:AV:36:ARG:HA	21:AV:71:LEU:HD12	1.82	0.62
22:AW:73:HIS:O	22:AW:74:LYS:O	2.18	0.62
24:BA:1380:G:H2'	24:BA:1381:G:H5'	1.82	0.62
24:BA:140:A:H2'	24:BA:141:A:H8	1.65	0.62
24:BA:1493:C:H2'	24:BA:1493:C:O2	1.99	0.62
24:BA:1518:C:C2'	24:BA:1519:G:H4'	2.25	0.62
24:BA:1539:G:H2'	24:BA:1540:G:C8	2.35	0.62
24:BA:1558:A:H4'	24:BA:1559:G:OP1	1.99	0.62
24:BA:1747:G:C2	24:BA:1748:G:C8	2.88	0.62
24:BA:1791:A:H2	24:BA:1829:A:HO2'	1.44	0.62
24:BA:184:C:O2'	24:BA:217:G:N2	2.32	0.62
24:BA:1914:C:C2'	24:BA:1914:C:O2	2.47	0.62
24:BA:1928:A:C2'	24:BA:1929:G:H5'	2.30	0.62
24:BA:2092:U:H5	24:BA:2227:A:N6	1.94	0.62
24:BA:185:U:H4'	24:BA:218:A:H4'	1.81	0.62
24:BA:2531:A:N3	24:BA:2532:G:C8	2.67	0.62
24:BA:252:G:N3	24:BA:253:C:C6	2.68	0.62
24:BA:2638:G:N7	24:BA:2775:A:C6	2.67	0.62
24:BA:2805:G:H2'	24:BA:2807:G:O4'	1.99	0.62
24:BA:378:C:C2	24:BA:397:G:N2	2.67	0.62
24:BA:588:U:H1'	29:BF:90:PHE:CG	2.34	0.62
24:BA:609:A:C8	24:BA:609(A):G:N7	2.68	0.62
24:BA:259:G:O2'	24:BA:621:A:H1'	2.00	0.62
24:BA:945:A:HO2'	24:BA:946:G:P	2.22	0.62
27:BD:28:GLU:N	27:BD:29:PRO:HD2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:13:ARG:HH12	28:BE:20:ALA:HB3	1.63	0.62
28:BE:49:LEU:CD1	28:BE:51:PHE:H	2.12	0.62
24:BA:2787:C:C5'	28:BE:64:LYS:HD2	2.30	0.62
29:BF:181:LEU:HD13	29:BF:181:LEU:H	1.65	0.62
29:BF:82:ILE:N	29:BF:82:ILE:HD13	2.15	0.62
30:BG:12:TYR:CD1	30:BG:13:GLU:N	2.68	0.62
30:BG:65:GLY:O	30:BG:66:GLN:HB2	1.98	0.62
30:BG:75:LYS:HD3	30:BG:84:LYS:HB2	1.81	0.62
31:BH:135:GLY:HA3	31:BH:141:VAL:HG22	1.81	0.62
24:BA:2745:C:O2'	31:BH:143:GLN:HG3	2.00	0.62
34:BM:16:ILE:N	34:BM:16:ILE:CD1	2.63	0.62
34:BM:25:ARG:HA	34:BM:28:THR:CG2	2.30	0.62
36:BO:126:VAL:N	36:BO:145:PRO:HA	2.11	0.62
37:BP:34:LEU:CG	37:BP:67:ARG:HH22	2.13	0.62
24:BA:2690:C:H41	38:BQ:14:SER:CB	2.13	0.62
39:BR:28:VAL:CB	39:BR:101:LEU:HG	2.29	0.62
40:BS:67:SER:HB3	40:BS:105:LEU:HD11	1.80	0.62
40:BS:18:ASP:OD1	40:BS:81:PRO:HG3	1.99	0.62
40:BS:29:ARG:HA	40:BS:50:ILE:C	2.21	0.62
41:BT:114:LYS:CG	41:BT:115:ALA:N	2.63	0.62
46:BY:102:LEU:HB2	46:BY:123:ASP:C	2.19	0.62
46:BY:157:LEU:HD22	46:BY:161:VAL:HG13	1.81	0.62
46:BY:48:PHE:HB3	46:BY:54:HIS:CE1	2.34	0.62
46:BY:99:TYR:CB	46:BY:126:VAL:HG13	2.30	0.62
47:BZ:37:LEU:HD21	47:BZ:61:ALA:H	1.61	0.62
32:BK:81:VAL:HG21	32:BK:144:VAL:HG13	1.82	0.62
24:BA:2132:U:H3'	24:BA:2132:U:O2	2.00	0.62
24:BA:2166:G:N2	24:BA:2172:U:C4	2.68	0.62
26:BC:148:ASN:HB2	26:BC:151:GLU:HB2	1.80	0.62
26:BC:91:ALA:CB	26:BC:153:ILE:HG21	2.30	0.62
26:BC:190:ARG:HD3	26:BC:193:ILE:HD12	1.81	0.62
24:BA:1497:U:O4	24:BA:1577:C:O5'	2.18	0.62
24:BA:1582:C:C4	24:BA:1583:A:C8	2.88	0.62
24:BA:2195:C:C2'	24:BA:2196:C:H5'	2.29	0.62
1:AA:747:C:H2'	1:AA:748:C:H1'	1.81	0.62
1:AA:1452:C:H5'	1:AA:1453:G:N3	2.14	0.62
1:AA:1108:G:H4'	1:AA:1191:A:H1'	1.81	0.62
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.00	0.62
1:AA:926:G:C2'	1:AA:1505:G:N2	2.52	0.62
1:AA:406:G:C2	1:AA:407:G:C5	2.88	0.62
1:AA:515:G:N2	1:AA:537:G:C4	2.68	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:766:A:N7	1:AA:814:A:N6	2.47	0.62
2:AC:75:C:C3'	2:AC:76:A:O3'	2.48	0.62
5:AF:94:LEU:O	5:AF:94:LEU:HD23	1.99	0.62
8:AI:96:PRO:HD2	20:AU:32:ARG:HH21	1.64	0.62
9:AJ:85:TYR:N	9:AJ:85:TYR:CD2	2.64	0.62
10:AK:111:ILE:HG23	10:AK:120:THR:HG22	1.82	0.62
10:AK:21:LYS:O	10:AK:22:GLU:C	2.39	0.62
10:AK:24:THR:HG22	10:AK:61:VAL:O	1.99	0.62
10:AK:9:MET:CA	10:AK:26:VAL:HG21	2.29	0.62
10:AK:51:VAL:CG2	10:AK:60:ARG:HB3	2.29	0.62
11:AL:15:ALA:HA	11:AL:65:VAL:HG23	1.82	0.62
11:AL:23:ASN:HD22	11:AL:23:ASN:C	2.03	0.62
11:AL:69:GLY:O	11:AL:73:GLN:HG3	2.00	0.62
1:AA:518:C:O2'	14:AO:50:SER:HB3	1.99	0.62
21:AV:22:LEU:HG	21:AV:25:LYS:CE	2.29	0.62
21:AV:80:TYR:CD1	21:AV:81:ARG:N	2.68	0.62
24:BA:61:G:H5'	48:B1:45:ILE:HD12	1.80	0.62
49:B2:4:LEU:CB	49:B2:37:LEU:HD22	2.20	0.62
50:B3:22:ILE:CB	50:B3:27:THR:HB	2.30	0.62
43:BV:35:ILE:HD12	51:B4:27:PRO:CB	2.30	0.62
36:BO:59:LEU:CD2	54:B7:25:MET:HE2	2.18	0.62
54:B7:58:ILE:HA	54:B7:61:LEU:HB2	1.82	0.62
55:B8:19:ARG:HB2	55:B8:19:ARG:CZ	2.29	0.62
24:BA:1266:G:C1'	43:BV:15:ARG:HH22	2.12	0.62
24:BA:1290:C:C2	24:BA:1291:C:C5	2.87	0.62
24:BA:1361:G:C4	24:BA:1362:C:C5	2.87	0.62
24:BA:1372:U:O2'	24:BA:1373:A:H5'	1.99	0.62
24:BA:1431:U:O2'	24:BA:1432:C:H5'	1.99	0.62
24:BA:1532:C:H2'	24:BA:1533:C:H6	1.64	0.62
24:BA:1542:G:N7	24:BA:1544:C:C5	2.67	0.62
24:BA:1606:G:H4'	24:BA:1608:A:N3	2.14	0.62
24:BA:1913:A:N3	24:BA:1918:A:N1	2.47	0.62
24:BA:2278:A:H62	47:BZ:14:ARG:HB2	1.65	0.62
24:BA:2541:A:H2	24:BA:2765:A:H61	1.47	0.62
24:BA:2597:G:C5'	27:BD:242:ARG:HE	2.12	0.62
24:BA:2740:A:H2'	24:BA:2741:A:H8	1.63	0.62
24:BA:2762:G:H2'	24:BA:2763:G:O4'	1.99	0.62
24:BA:2805:G:H3'	24:BA:2807:G:C5'	2.21	0.62
24:BA:464:U:N3	24:BA:465:G:C6	2.68	0.62
24:BA:470:A:OP1	24:BA:470:A:H4'	2.00	0.62
24:BA:600:G:N2	24:BA:604:G:H4'	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:605:C:H6	24:BA:605:C:OP2	1.83	0.62
24:BA:895:U:O2	24:BA:896:A:C6	2.53	0.62
24:BA:916:G:H21	24:BA:917:A:N6	1.95	0.62
24:BA:943:U:P	24:BA:943:U:O4'	2.57	0.62
24:BA:990:A:O2'	24:BA:992:C:OP2	2.17	0.62
25:BB:16:G:H2'	25:BB:17:C:C6	2.35	0.62
27:BD:146:GLU:HA	27:BD:154:LYS:CG	2.27	0.62
24:BA:1566:A:C6	27:BD:215:LEU:HD22	2.35	0.62
29:BF:186:ILE:HG22	29:BF:187:VAL:N	2.15	0.62
29:BF:65:TRP:CD2	29:BF:66:PRO:HD2	2.34	0.62
30:BG:111:LEU:CD2	30:BG:178:PHE:CD2	2.81	0.62
33:BL:109:LYS:HA	33:BL:112:MET:CG	2.30	0.62
34:BM:128:HIS:N	34:BM:129:PRO:CD	2.60	0.62
34:BM:33:LEU:C	34:BM:35:ARG:N	2.52	0.62
34:BM:48:MET:HG2	34:BM:50:ASP:H	1.65	0.62
34:BM:36:GLY:N	34:BM:49:GLY:N	2.48	0.62
34:BM:54:VAL:CG2	34:BM:55:VAL:N	2.63	0.62
35:BN:31:LYS:CB	35:BN:32:TYR:CZ	2.83	0.62
36:BO:123:LEU:CD2	36:BO:134:ALA:HA	2.30	0.62
36:BO:18:ARG:O	36:BO:19:VAL:C	2.37	0.62
36:BO:23:PRO:CB	36:BO:30:THR:H	2.13	0.62
38:BQ:79:LEU:CD2	38:BQ:80:PHE:N	2.63	0.62
40:BS:65:LYS:CE	40:BS:75:ILE:HD12	2.30	0.62
41:BT:12:ARG:O	41:BT:14:HIS:N	2.32	0.62
42:BU:76:LYS:CA	42:BU:85:LYS:O	2.44	0.62
46:BY:43:GLU:CD	46:BY:43:GLU:N	2.42	0.62
32:BK:69:LYS:HZ1	32:BK:70:LYS:CE	2.13	0.62
5:AF:157:ILE:HD12	5:AF:164:ARG:CG	2.30	0.62
1:AA:121:C:C4'	1:AA:122:G:OP1	2.48	0.61
1:AA:1253:G:H2'	1:AA:1254:C:O4'	1.99	0.61
1:AA:1359:C:O2'	1:AA:1361:G:OP2	2.18	0.61
1:AA:1529:G:C4'	1:AA:1530:G:OP2	2.48	0.61
1:AA:375:U:H4'	18:AS:6:LEU:HD21	1.82	0.61
1:AA:391:G:C6	1:AA:392:G:C5	2.88	0.61
4:AE:97:TRP:CZ3	4:AE:173:ALA:N	2.67	0.61
4:AE:20:GLU:N	4:AE:39:ILE:HD11	2.14	0.61
4:AE:222:ILE:HB	4:AE:226:ARG:NH2	2.14	0.61
4:AE:33:TYR:HE2	4:AE:44:LEU:HG	1.64	0.61
4:AE:84:GLU:O	4:AE:219:VAL:HG21	2.00	0.61
5:AF:156:ARG:HH12	5:AF:161:GLU:HA	1.65	0.61
9:AJ:122:HIS:C	9:AJ:125:MET:HG3	2.20	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:30:ARG:O	10:AK:33:GLU:HB3	2.00	0.61
1:AA:684:A:H4'	13:AN:12:ARG:NH1	2.15	0.61
13:AN:58:PRO:HB2	13:AN:93:GLN:HB2	1.82	0.61
14:AO:101:VAL:O	14:AO:104:VAL:HG23	2.00	0.61
15:AP:3:ARG:CG	15:AP:7:VAL:HA	2.29	0.61
1:AA:979:C:H41	16:AQ:18:VAL:HB	1.65	0.61
17:AR:40:SER:O	17:AR:43:LEU:HB2	1.99	0.61
18:AS:6:LEU:HB2	18:AS:17:TYR:HB3	1.80	0.61
49:B2:50:VAL:HG13	49:B2:53:LEU:CB	2.30	0.61
49:B2:5:LYS:HZ1	49:B2:59:VAL:CG2	2.13	0.61
49:B2:9:VAL:H	49:B2:54:VAL:HG23	1.65	0.61
49:B2:9:VAL:HG22	49:B2:54:VAL:N	2.14	0.61
52:B5:19:ARG:O	52:B5:20:ASN:CG	2.38	0.61
53:B6:43:THR:O	53:B6:46:VAL:N	2.33	0.61
54:B7:10:ALA:CB	54:B7:60:LEU:HD12	2.30	0.61
55:B8:9:ARG:O	55:B8:10:ILE:HG13	2.00	0.61
24:BA:1090:U:O4	24:BA:1103:A:C6	2.53	0.61
24:BA:1135:C:O2	24:BA:2038:G:H4'	2.00	0.61
24:BA:1174:A:N3	24:BA:1174:A:H2'	2.14	0.61
24:BA:1264:G:H3'	24:BA:1265:A:C5'	2.29	0.61
24:BA:1323:U:O2'	24:BA:1324:G:OP1	2.15	0.61
24:BA:1451:C:O4'	24:BA:1451:C:OP2	2.18	0.61
24:BA:1475:G:N2	24:BA:1476:C:C6	2.68	0.61
24:BA:1479:G:C8	24:BA:1480:G:N7	2.68	0.61
24:BA:1644:C:H2'	24:BA:1645:G:O5'	2.00	0.61
24:BA:1783:A:OP2	24:BA:1783:A:C8	2.53	0.61
24:BA:1800:C:N3	24:BA:1818:U:H1'	2.15	0.61
24:BA:1857:G:N3	24:BA:1884:A:N1	2.47	0.61
24:BA:1953:A:N7	24:BA:2550:G:H1'	2.14	0.61
24:BA:1955:U:H5'	24:BA:1956:U:C4	2.34	0.61
24:BA:196:A:N3	24:BA:2068:U:C5	2.68	0.61
24:BA:2453:A:C2	24:BA:2504:U:O2	2.52	0.61
24:BA:2527:C:O2'	24:BA:2528:U:H5'	2.00	0.61
24:BA:2786:U:O4'	28:BE:65:GLY:HA2	2.00	0.61
24:BA:372:G:H1'	50:B3:63:TYR:CE1	2.35	0.61
24:BA:424:G:N3	24:BA:425:G:C8	2.67	0.61
24:BA:469:G:N1	53:B6:40:TRP:CZ2	2.67	0.61
24:BA:514:A:H2	24:BA:515:A:C1'	2.13	0.61
24:BA:614:U:C3'	24:BA:615:G:H4'	2.10	0.61
24:BA:623:G:H2'	24:BA:624:C:C5'	2.30	0.61
24:BA:649:G:C2	24:BA:650:C:H1'	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:727:A:O2'	24:BA:728:G:C5'	2.48	0.61
24:BA:728:G:H21	24:BA:730:C:H5''	1.64	0.61
24:BA:757:U:C4	24:BA:758:C:C5	2.88	0.61
24:BA:815:C:O2'	24:BA:816:C:H5''	2.00	0.61
24:BA:861:A:N6	24:BA:916:G:H21	1.95	0.61
27:BD:260:ARG:NH1	27:BD:260:ARG:HG3	2.14	0.61
27:BD:72:LYS:CG	27:BD:75:ILE:HD12	2.24	0.61
24:BA:1817:G:P	27:BD:88:ARG:HH22	2.23	0.61
28:BE:120:TRP:CG	28:BE:121:ASN:N	2.65	0.61
28:BE:54:GLN:CB	28:BE:57:LYS:HZ2	2.13	0.61
29:BF:146:ALA:HB1	29:BF:148:LEU:HD23	1.82	0.61
30:BG:167:GLU:C	30:BG:170:ARG:HB3	2.20	0.61
31:BH:127:GLU:HB3	31:BH:129:THR:H	1.64	0.61
33:BL:10:LEU:HD13	33:BL:57:ILE:HD11	1.81	0.61
34:BM:18:ALA:HB2	34:BM:54:VAL:CG2	2.29	0.61
34:BM:37:LYS:HA	34:BM:42:TRP:CB	2.30	0.61
34:BM:69:GLN:O	34:BM:70:LYS:HD3	1.99	0.61
35:BN:103:ALA:CA	35:BN:106:LEU:HD23	2.26	0.61
35:BN:106:LEU:HD22	40:BS:39:ARG:CZ	2.31	0.61
35:BN:92:GLU:OE1	35:BN:113:LYS:HB3	2.00	0.61
35:BN:18:LYS:CG	35:BN:19:ILE:N	2.62	0.61
24:BA:2674:G:H4'	35:BN:26:LYS:NZ	2.15	0.61
35:BN:31:LYS:C	35:BN:32:TYR:CG	2.73	0.61
36:BO:113:LYS:HZ2	36:BO:114:ILE:C	2.04	0.61
37:BP:111:GLU:HG3	37:BP:113:GLN:HE21	1.64	0.61
41:BT:12:ARG:O	41:BT:13:LYS:C	2.38	0.61
41:BT:79:PHE:CZ	41:BT:83:LEU:HD22	2.35	0.61
42:BU:6:LYS:HD3	42:BU:10:LYS:CA	2.30	0.61
24:BA:1322:A:H5'	43:BV:11:ARG:NH1	2.15	0.61
44:BW:85:PRO:CG	44:BW:87:GLN:HG2	2.30	0.61
47:BZ:51:VAL:HG12	47:BZ:59:LEU:HD22	1.82	0.61
24:BA:2365:G:OP1	47:BZ:55:ARG:N	2.33	0.61
24:BA:2133:G:OP2	24:BA:2156:G:C1'	2.48	0.61
26:BC:111:ASP:HA	26:BC:136:LEU:CD2	2.17	0.61
26:BC:111:ASP:O	26:BC:135:GLY:O	2.18	0.61
26:BC:120:MET:SD	26:BC:145:VAL:HG13	2.40	0.61
32:BK:54:GLN:OE1	32:BK:57:ARG:NE	2.33	0.61
24:BA:163:U:H5''	24:BA:164:U:OP2	2.00	0.61
24:BA:1040:C:OP2	24:BA:1040:C:C6	2.53	0.61
1:AA:1088:G:C2	1:AA:1089:G:C8	2.88	0.61
1:AA:1224:G:H2'	1:AA:1225:A:OP1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1307:U:O5'	1:AA:1307:U:C6	2.46	0.61
1:AA:1387:G:H2'	1:AA:1388:C:C6	2.34	0.61
1:AA:1514:C:O2'	1:AA:1515:C:H5'	2.00	0.61
1:AA:195:A:C4	1:AA:196:A:C2	2.88	0.61
1:AA:320:C:O2'	1:AA:321:A:C5'	2.46	0.61
1:AA:432:A:H3'	1:AA:432:A:H8	1.65	0.61
1:AA:451:A:C8	1:AA:481:G:N1	2.68	0.61
1:AA:959:A:H3'	1:AA:960:U:C5'	2.28	0.61
2:AC:33:U:H6	2:AC:33:U:O5'	1.82	0.61
4:AE:18:GLY:CA	4:AE:41:ILE:HA	2.30	0.61
4:AE:19:HIS:CE1	4:AE:204:ASN:HD21	2.18	0.61
5:AF:5:ILE:HD13	5:AF:10:PHE:CE2	2.35	0.61
5:AF:113:ALA:HB3	5:AF:114:PRO:HD3	1.80	0.61
6:AG:120:LEU:HD12	6:AG:121:VAL:N	2.15	0.61
6:AG:3:ARG:HH11	6:AG:3:ARG:HG3	1.65	0.61
7:AH:11:ILE:HB	7:AH:31:LEU:HD22	1.83	0.61
11:AL:105:ASP:OD1	11:AL:107:ARG:NH2	2.34	0.61
11:AL:55:ALA:HB1	11:AL:58:HIS:CD2	2.35	0.61
14:AO:117:ARG:HH22	14:AO:124:LYS:HG2	1.64	0.61
14:AO:56:ALA:HB2	14:AO:70:ILE:CG1	2.31	0.61
16:AQ:9:LYS:HZ1	16:AQ:12:ARG:NH2	1.97	0.61
19:AT:4:LYS:C	19:AT:5:VAL:HG23	2.20	0.61
19:AT:68:ARG:H	19:AT:70:ARG:CZ	2.13	0.61
48:B1:20:VAL:HG23	48:B1:55:LEU:CD2	2.30	0.61
52:B5:16:CYS:HB2	52:B5:49:HIS:O	2.00	0.61
24:BA:458:G:H8	53:B6:39:ARG:HB2	1.64	0.61
24:BA:1021:A:C5	24:BA:1023:U:C6	2.88	0.61
24:BA:1027:A:C6	24:BA:1126:A:N3	2.68	0.61
24:BA:1047:G:N2	24:BA:1110:G:H2'	2.14	0.61
24:BA:1225:C:P	42:BU:88:ARG:NH1	2.74	0.61
24:BA:1312:U:H2'	24:BA:1313:U:C1'	2.28	0.61
24:BA:1314:C:P	24:BA:1332:G:H5'	2.40	0.61
24:BA:1339:G:H5'	44:BW:16:LYS:HD3	1.81	0.61
24:BA:1427:A:O2'	24:BA:1428:C:OP2	2.17	0.61
24:BA:1510:A:H4'	24:BA:1510:A:OP1	1.99	0.61
24:BA:1448:G:O3'	24:BA:1543:A:N1	2.34	0.61
24:BA:1565:C:C2	24:BA:1567:A:H1'	2.34	0.61
24:BA:1790:C:H5''	24:BA:1828:G:C2	2.35	0.61
24:BA:2028:U:H2'	24:BA:2029:G:C8	2.35	0.61
24:BA:2029:G:H2'	24:BA:2030:A:O3'	2.00	0.61
24:BA:209:C:C2'	24:BA:210:C:H5'	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:222:A:N6	24:BA:224:G:C2	2.68	0.61
24:BA:224:G:C2	24:BA:225:A:C8	2.88	0.61
24:BA:2530:A:H3'	24:BA:2531:A:C5'	2.30	0.61
24:BA:2561:A:H2'	24:BA:2562:U:O5'	2.00	0.61
24:BA:2582:G:H2'	24:BA:2583:G:O4'	1.99	0.61
24:BA:2588:G:C5	24:BA:2589:A:N7	2.68	0.61
24:BA:2599:G:H2'	24:BA:2600:A:H8	1.64	0.61
24:BA:2791:C:H5	24:BA:2893:G:N7	1.98	0.61
24:BA:307:G:H22	24:BA:310:A:H5''	1.65	0.61
24:BA:377:C:H2'	24:BA:378:C:C6	2.36	0.61
24:BA:38:A:H2'	24:BA:39:C:C6	2.35	0.61
24:BA:417:C:H2'	24:BA:418:G:O4'	2.00	0.61
24:BA:495:G:H2'	24:BA:496:G:O5'	2.00	0.61
24:BA:543:C:H2'	24:BA:544:C:C6	2.35	0.61
24:BA:544:C:H2'	24:BA:545:G:C5'	2.30	0.61
24:BA:887:A:H5''	24:BA:889:C:H5''	1.81	0.61
24:BA:975:G:C6	24:BA:976:C:C6	2.89	0.61
25:BB:104:A:C2'	25:BB:105:G:O4'	2.39	0.61
25:BB:59:A:H2'	25:BB:59:A:N3	2.14	0.61
25:BB:88:C:H2'	25:BB:89:G:C5'	2.30	0.61
27:BD:88:ARG:HA	27:BD:88:ARG:HE	1.64	0.61
28:BE:111:ARG:H	28:BE:161:GLY:HA2	1.65	0.61
29:BF:158:THR:CG2	29:BF:196:LEU:HB2	2.30	0.61
29:BF:155:LEU:CA	29:BF:174:VAL:HG22	2.20	0.61
29:BF:164:ARG:CB	29:BF:177:ALA:CB	2.68	0.61
30:BG:41:GLN:HG3	30:BG:155:MET:CB	2.31	0.61
30:BG:36:LYS:CB	30:BG:95:ARG:HG3	2.30	0.61
31:BH:103:LEU:HB2	31:BH:115:VAL:CG1	2.29	0.61
34:BM:74:ARG:HB2	34:BM:82:LEU:CA	2.30	0.61
35:BN:106:LEU:O	35:BN:109:LYS:CA	2.47	0.61
35:BN:39:ILE:O	35:BN:59:LYS:HE2	2.00	0.61
24:BA:603:A:H5''	36:BO:98:GLU:OE2	2.01	0.61
38:BQ:52:ILE:HD13	38:BQ:52:ILE:C	2.20	0.61
38:BQ:54:LEU:CD2	38:BQ:65:LEU:HD13	2.30	0.61
38:BQ:79:LEU:HG	38:BQ:80:PHE:N	2.14	0.61
39:BR:99:LYS:HG2	39:BR:103:GLU:OE1	2.00	0.61
40:BS:30:VAL:HB	40:BS:90:GLN:OE1	1.99	0.61
40:BS:52:ILE:C	40:BS:53:ARG:HD2	2.21	0.61
44:BW:43:VAL:HG12	44:BW:49:VAL:CG2	2.29	0.61
32:BK:87:LYS:HD2	32:BK:121:LYS:CE	2.30	0.61
3:AD:17:U:H3'	3:AD:18:G:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:58:A:H2'	3:AD:61:C:C4	2.35	0.61
26:BC:181:PRO:HD2	26:BC:184:LYS:HD2	1.82	0.61
1:AA:1091:U:O2	1:AA:1095:U:C5	2.53	0.61
1:AA:1524:C:OP1	13:AN:120:ARG:NH2	2.33	0.61
1:AA:329:A:C6	1:AA:332:G:C2	2.88	0.61
1:AA:607:A:C4	1:AA:608:A:C8	2.87	0.61
1:AA:659:U:H2'	1:AA:660:G:C8	2.34	0.61
1:AA:872:A:C5	1:AA:874:G:C8	2.87	0.61
2:AC:57:A:C4'	30:BG:82:LEU:HD22	2.30	0.61
2:AC:68:C:H2'	2:AC:69:C:C6	2.34	0.61
4:AE:95:GLN:HA	4:AE:95:GLN:OE1	2.00	0.61
5:AF:140:ARG:HA	5:AF:143:GLU:HB2	1.82	0.61
5:AF:30:ARG:HG2	5:AF:30:ARG:NH1	2.14	0.61
6:AG:104:VAL:HG21	6:AG:140:VAL:HG21	1.82	0.61
9:AJ:62:PHE:HD1	9:AJ:124:LEU:HD11	1.64	0.61
9:AJ:90:GLU:O	9:AJ:91:VAL:CG2	2.47	0.61
11:AL:23:ASN:ND2	11:AL:57:GLY:O	2.32	0.61
13:AN:63:LEU:C	13:AN:63:LEU:HD23	2.21	0.61
13:AN:67:ASP:N	13:AN:70:LYS:HZ2	1.97	0.61
14:AO:41:ARG:CG	14:AO:42:THR:H	2.13	0.61
1:AA:667:G:H4'	17:AR:51:HIS:CG	2.35	0.61
18:AS:8:ARG:C	18:AS:9:PHE:HD2	2.02	0.61
21:AV:22:LEU:HD23	21:AV:25:LYS:HE2	1.82	0.61
21:AV:24:ALA:C	21:AV:26:GLY:H	2.04	0.61
24:BA:61:G:H5'	48:B1:45:ILE:HD13	1.81	0.61
48:B1:5:LEU:HD11	48:B1:9:ARG:NH1	2.14	0.61
50:B3:6:HIS:CB	50:B3:7:PRO:CD	2.79	0.61
51:B4:33:CYS:C	51:B4:35:GLU:H	2.03	0.61
52:B5:24:GLU:O	52:B5:25:LYS:CB	2.48	0.61
52:B5:27:LYS:CG	52:B5:29:ASN:HD21	2.07	0.61
52:B5:20:ASN:ND2	52:B5:43:CYS:N	2.38	0.61
55:B8:6:SER:O	55:B8:8:LYS:HG3	2.00	0.61
24:BA:819:A:OP2	24:BA:1187:G:N2	2.29	0.61
24:BA:1311:G:H3'	24:BA:1311:G:H8	1.65	0.61
24:BA:1471:A:H5''	24:BA:1472:A:N3	2.15	0.61
24:BA:1446:C:O2'	24:BA:1545(A):A:H4'	1.99	0.61
24:BA:1438:U:N3	24:BA:1553:A:N6	2.47	0.61
24:BA:1570:A:N1	24:BA:1571:A:N7	2.47	0.61
24:BA:1742:C:C4	24:BA:1743:G:C8	2.89	0.61
24:BA:1777:U:C2'	24:BA:1778:U:C5'	2.79	0.61
24:BA:1829:A:C2	24:BA:1830:C:H1'	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1829:A:H5''	24:BA:1830:C:C5	2.33	0.61
24:BA:1919:A:C2'	24:BA:1920:C:H5'	2.30	0.61
24:BA:1942:C:OP2	24:BA:1943:U:H3'	1.99	0.61
24:BA:2212:A:C2'	24:BA:2212:A:N3	2.63	0.61
24:BA:2393:A:H2'	24:BA:2394:C:C5'	2.30	0.61
24:BA:2595:G:C2	24:BA:2597:G:O5'	2.53	0.61
24:BA:2665:A:C5'	24:BA:2665:A:C8	2.83	0.61
24:BA:2805:G:H2'	24:BA:2807:G:H4'	1.80	0.61
24:BA:2805:G:C3'	24:BA:2807:G:C5'	2.75	0.61
24:BA:317:G:O2'	24:BA:318:C:H5'	2.00	0.61
24:BA:294:A:C2	24:BA:346:A:C2	2.87	0.61
24:BA:464:U:H1'	24:BA:788:A:N6	2.15	0.61
24:BA:483:A:C2	24:BA:484:C:C1'	2.83	0.61
24:BA:532:A:OP2	24:BA:2021:C:N4	2.33	0.61
24:BA:832:G:P	36:BO:35:HIS:CB	2.87	0.61
24:BA:898:C:H5'	24:BA:899:A:OP2	2.00	0.61
24:BA:9:U:O2	24:BA:9:U:H2'	1.99	0.61
25:BB:114:G:O4'	39:BR:47:THR:CB	2.48	0.61
25:BB:60:C:H2'	25:BB:61:G:C8	2.36	0.61
27:BD:47:GLY:O	27:BD:49:ILE:HG13	2.00	0.61
27:BD:63:ARG:CZ	27:BD:85:ASP:HA	2.31	0.61
28:BE:8:LYS:NZ	28:BE:192:ASN:HD22	1.98	0.61
28:BE:103:ASP:HB2	28:BE:199:ARG:O	2.01	0.61
28:BE:44:TYR:HB3	28:BE:82:ARG:NH1	2.15	0.61
28:BE:50:GLY:O	28:BE:76:ARG:CZ	2.48	0.61
29:BF:11:VAL:HG13	29:BF:127:GLU:HB2	1.82	0.61
24:BA:37:C:O2'	29:BF:50:SER:HB2	1.99	0.61
30:BG:114:ILE:HB	30:BG:140:ILE:HG13	1.80	0.61
30:BG:130:ASN:CA	30:BG:161:THR:HG23	2.28	0.61
30:BG:174:GLU:OE2	30:BG:175:LEU:N	2.34	0.61
30:BG:59:GLU:HB3	30:BG:152:LEU:HD22	1.82	0.61
31:BH:117:PRO:HD3	31:BH:123:PHE:CE2	2.34	0.61
34:BM:57:ALA:HB1	34:BM:60:ILE:HD11	1.81	0.61
41:BT:96:ALA:O	41:BT:100:VAL:HG22	1.99	0.61
24:BA:1161:C:C1'	42:BU:22:VAL:HG11	2.27	0.61
42:BU:26:ASP:C	42:BU:29:PRO:HD2	2.21	0.61
43:BV:49:LYS:HA	43:BV:49:LYS:HE2	1.82	0.61
44:BW:56:THR:HG22	44:BW:79:ALA:HB2	1.82	0.61
45:BX:12:THR:HA	45:BX:73:ARG:NH1	2.15	0.61
45:BX:47:LYS:HB3	45:BX:49:VAL:HG22	1.82	0.61
32:BK:103:ARG:NH1	32:BK:104:GLN:NE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:107:TRP:O	26:BC:108:MET:HB2	1.99	0.61
26:BC:93:TYR:CE1	26:BC:109:ASP:CB	2.79	0.61
1:AA:1022:G:N3	1:AA:1022:G:H2'	2.15	0.61
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.30	0.61
1:AA:1349:A:OP1	11:AL:120:ARG:HB2	2.01	0.61
1:AA:179:A:H3'	1:AA:180:U:C6	2.35	0.61
1:AA:220:G:O2'	1:AA:221:C:H5'	2.00	0.61
1:AA:331:G:OP1	1:AA:332:G:H8	1.83	0.61
1:AA:395:C:O2'	1:AA:396:G:H5'	2.00	0.61
1:AA:556:C:O2'	1:AA:557:G:H5'	2.00	0.61
1:AA:881:G:OP2	14:AO:9:GLN:NE2	2.33	0.61
1:AA:981:U:H6	1:AA:981:U:O5'	1.82	0.61
3:AD:38:A:C2'	3:AD:39:U:H5'	2.30	0.61
4:AE:33:TYR:CG	4:AE:43:ASP:HB2	2.35	0.61
1:AA:1107:C:OP2	5:AF:172:ARG:HG2	2.00	0.61
5:AF:38:ARG:C	5:AF:94:LEU:HD11	2.21	0.61
5:AF:83:ARG:C	5:AF:87:LEU:HG	2.20	0.61
6:AG:122:ARG:HG2	6:AG:134:ASP:O	2.01	0.61
6:AG:20:TYR:HA	6:AG:31:CYS:SG	2.40	0.61
12:AM:39:PRO:HA	12:AM:70:ARG:NH1	2.14	0.61
12:AM:94:VAL:HG12	12:AM:95:GLU:H	1.64	0.61
14:AO:60:LEU:CD1	14:AO:60:LEU:N	2.64	0.61
15:AP:91:ARG:HD3	15:AP:96:LEU:HG	1.81	0.61
19:AT:29:HIS:ND1	19:AT:31:LEU:N	2.37	0.61
20:AU:34:TYR:CD1	20:AU:35:ARG:N	2.68	0.61
22:AW:65:LYS:O	22:AW:68:LYS:CG	2.48	0.61
50:B3:5:ILE:HD13	50:B3:57:GLU:HG3	1.83	0.61
24:BA:2623:G:H22	51:B4:22:HIS:CE1	2.16	0.61
52:B5:19:ARG:HD3	52:B5:19:ARG:H	1.66	0.61
52:B5:35:GLU:O	52:B5:36:LEU:O	2.19	0.61
53:B6:41:ARG:O	53:B6:42:LEU:HG	1.98	0.61
24:BA:1061:U:OP2	24:BA:1062:G:O5'	2.18	0.61
24:BA:143:C:C2	24:BA:144:C:C5	2.88	0.61
24:BA:1473:G:H2'	24:BA:1474:C:H6	1.65	0.61
24:BA:1563:G:O2'	24:BA:1564:C:H5'	2.00	0.61
24:BA:1970:A:O2'	24:BA:1971:A:C5'	2.49	0.61
24:BA:1993:U:H2'	24:BA:1994:C:O4'	2.00	0.61
24:BA:204:A:O2'	24:BA:205:G:O5'	2.19	0.61
24:BA:2230:G:H2'	24:BA:2231:C:C6	2.36	0.61
24:BA:2781:A:N1	24:BA:2782:G:C2	2.68	0.61
24:BA:2799:A:O2'	24:BA:2802:G:C6	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2845:G:O2'	24:BA:2846:G:O5'	2.08	0.61
24:BA:401:A:C4	24:BA:402:A:H8	2.19	0.61
24:BA:49:A:N6	24:BA:177:G:C4	2.69	0.61
24:BA:752:A:H62	24:BA:1781:C:H1'	1.65	0.61
24:BA:988:A:H3'	49:B2:10:LYS:NZ	2.16	0.61
28:BE:112:GLY:C	28:BE:113:PHE:CD1	2.74	0.61
28:BE:136:ARG:HH11	28:BE:137:HIS:HA	1.60	0.61
28:BE:197:ILE:HG22	28:BE:198:VAL:N	2.15	0.61
28:BE:200:GLU:CB	28:BE:202:LYS:HZ3	2.12	0.61
28:BE:5:LEU:HD23	28:BE:26:ILE:N	2.15	0.61
24:BA:2811:G:H5'	28:BE:60:ASN:HD21	1.64	0.61
29:BF:106:ARG:HG3	29:BF:107:LYS:HG3	1.82	0.61
29:BF:160:ASN:O	29:BF:163:VAL:N	2.33	0.61
29:BF:192:LEU:HD13	29:BF:192:LEU:C	2.20	0.61
30:BG:47:LYS:CB	30:BG:72:ARG:O	2.48	0.61
33:BL:115:LEU:HB3	33:BL:118:THR:CG2	2.26	0.61
34:BM:41:ASP:HA	41:BT:64:ARG:HH21	1.65	0.61
34:BM:16:ILE:HD13	34:BM:52:VAL:CG2	2.31	0.61
34:BM:7:LYS:CG	34:BM:10:GLU:OE1	2.48	0.61
24:BA:2780:G:N2	34:BM:97:ARG:NH1	2.48	0.61
24:BA:1667:G:P	35:BN:7:TYR:CD1	2.93	0.61
37:BP:65:PHE:O	37:BP:66:ILE:CG1	2.48	0.61
38:BQ:26:LYS:HE2	38:BQ:70:LEU:HA	1.83	0.61
24:BA:2881:C:H5'	38:BQ:90:ARG:NH2	2.16	0.61
39:BR:12:PHE:O	39:BR:13:ARG:C	2.36	0.61
40:BS:6:LEU:O	40:BS:9:LEU:HB2	2.00	0.61
42:BU:67:GLY:O	42:BU:68:LYS:CB	2.49	0.61
32:BK:93:THR:HG23	32:BK:95:LYS:HB3	1.81	0.61
26:BC:131:LEU:HD22	26:BC:136:LEU:CB	2.30	0.61
26:BC:39:GLU:CD	26:BC:216:THR:HB	2.21	0.61
26:BC:68:LEU:HD23	26:BC:69:GLY:H	1.62	0.61
24:BA:1418:G:OP1	24:BA:1588:C:H4'	2.00	0.61
32:BK:58:LEU:HB3	32:BK:62:LYS:HZ2	1.65	0.61
1:AA:1278:U:OP1	1:AA:1279:A:H4'	2.00	0.61
1:AA:1407:C:H2'	1:AA:1408:A:O4'	2.00	0.61
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.35	0.61
1:AA:1499:A:N7	1:AA:1500:A:N7	2.49	0.61
1:AA:232:G:C5	1:AA:233:C:C5	2.88	0.61
1:AA:238:G:N1	1:AA:239:U:C2	2.68	0.61
1:AA:106:C:O2	1:AA:379:C:H5'	2.00	0.61
1:AA:423:G:H2'	1:AA:424:G:O4'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:523:A:N6	14:AO:53:ARG:HH22	1.99	0.61
1:AA:766:A:H2'	1:AA:767:A:C8	2.35	0.61
1:AA:86:U:C2'	1:AA:87:A:H5'	2.31	0.61
2:AC:9:G:H4'	2:AC:10:G:OP1	1.99	0.61
2:AC:31:G:H4'	11:AL:127:LYS:HB2	1.83	0.61
3:AD:73:A:O2'	3:AD:74:C:OP1	2.17	0.61
4:AE:112:VAL:HG13	4:AE:149:LEU:HD21	1.82	0.61
4:AE:169:LYS:HZ3	4:AE:170:GLU:HA	1.63	0.61
5:AF:130:VAL:O	5:AF:133:ALA:HB3	2.00	0.61
6:AG:191:ARG:CD	6:AG:191:ARG:C	2.68	0.61
1:AA:8:A:C4'	7:AH:102:ALA:HA	2.31	0.61
9:AJ:93:PRO:O	9:AJ:94:ARG:C	2.38	0.61
10:AK:110:ALA:HA	10:AK:136:GLU:CB	2.30	0.61
11:AL:113:LYS:HZ1	11:AL:119:ALA:CB	2.14	0.61
11:AL:5:TYR:O	11:AL:84:ALA:HA	2.01	0.61
12:AM:32:ALA:HB2	12:AM:75:ILE:C	2.21	0.61
13:AN:80:VAL:O	13:AN:106:LYS:CB	2.43	0.61
48:B1:41:GLN:O	48:B1:43:HIS:N	2.33	0.61
50:B3:5:ILE:CD1	50:B3:57:GLU:HG3	2.30	0.61
50:B3:5:ILE:HD11	50:B3:10:VAL:CB	2.30	0.61
50:B3:68:ARG:CB	50:B3:68:ARG:HH11	2.13	0.61
43:BV:19:LEU:CD2	51:B4:25:LEU:HD22	2.30	0.61
43:BV:39:THR:OG1	51:B4:28:PRO:HD3	2.01	0.61
24:BA:2286:A:N6	52:B5:32:ASN:N	2.46	0.61
52:B5:6:ARG:C	52:B5:7:ILE:O	2.38	0.61
54:B7:34:TRP:HE3	54:B7:36:LYS:HD3	1.64	0.61
24:BA:1044:G:N3	24:BA:1111:A:H1'	2.16	0.61
24:BA:1071:G:H21	24:BA:1089:G:H2'	1.66	0.61
24:BA:1142(A):A:H3'	24:BA:1143:A:H5''	1.80	0.61
24:BA:120:U:H1'	24:BA:149:A:N3	2.15	0.61
24:BA:120:U:H2'	24:BA:121:G:OP2	1.99	0.61
24:BA:1265:A:H1'	24:BA:1267:U:C4	2.35	0.61
24:BA:1359:A:C8	24:BA:1359:A:C4'	2.83	0.61
24:BA:16:G:O2'	24:BA:17:G:H5'	2.00	0.61
24:BA:1935:G:N2	24:BA:1962:C:H2'	2.14	0.61
1:AA:1418:A:C2	24:BA:1959:G:H1'	2.34	0.61
24:BA:1995:U:C6	24:BA:1996:C:C5	2.89	0.61
24:BA:2013:A:O2'	24:BA:2014:A:H5'	2.00	0.61
24:BA:2072:G:C5	24:BA:2073:C:C5	2.89	0.61
24:BA:186:G:N2	24:BA:211:A:C4	2.68	0.61
24:BA:215:G:O2'	24:BA:216:A:OP2	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2259:G:H5'	24:BA:2427:C:H2'	1.83	0.61
24:BA:2263:C:H5'	24:BA:2329:G:O4'	2.01	0.61
24:BA:2407:G:N2	24:BA:2408:U:C1'	2.64	0.61
24:BA:262:A:C4	24:BA:263:C:H6	2.18	0.61
24:BA:2749:A:C4'	31:BH:62:LYS:HG3	2.29	0.61
24:BA:2766:G:N3	24:BA:2766:G:H2'	2.15	0.61
24:BA:2819:G:H2'	24:BA:2821:A:H62	1.65	0.61
24:BA:556:G:H2'	24:BA:557:U:O5'	2.00	0.61
24:BA:594:U:H2'	24:BA:595:C:C5	2.35	0.61
24:BA:612:G:H4'	24:BA:616:A:N1	2.16	0.61
24:BA:677:A:O2'	24:BA:678:C:H5'	2.00	0.61
24:BA:685:A:C4	24:BA:774:A:C6	2.89	0.61
24:BA:820:A:OP2	24:BA:973:A:N6	2.32	0.61
24:BA:878:A:N1	24:BA:880:G:N7	2.48	0.61
24:BA:89:G:C4	24:BA:90:U:H5	2.18	0.61
25:BB:23:G:N2	25:BB:61:G:C5	2.68	0.61
25:BB:38:C:H3'	25:BB:38:C:H6	1.65	0.61
25:BB:87:G:C8	25:BB:87:G:OP2	2.40	0.61
25:BB:89:G:C8	25:BB:89(A):A:N7	2.68	0.61
27:BD:133:LEU:HD11	27:BD:185:VAL:CG1	2.28	0.61
27:BD:206:LEU:CD1	27:BD:206:LEU:H	2.06	0.61
27:BD:29:PRO:CB	27:BD:82:ILE:O	2.48	0.61
27:BD:33:LEU:HD13	27:BD:63:ARG:CZ	2.31	0.61
28:BE:22:PRO:CB	28:BE:185:LYS:N	2.63	0.61
29:BF:36:VAL:HG11	29:BF:183:VAL:CB	2.30	0.61
30:BG:130:ASN:HA	30:BG:161:THR:CG2	2.27	0.61
31:BH:87:LEU:O	31:BH:132:ARG:HB3	2.00	0.61
31:BH:172:LYS:O	31:BH:172:LYS:HG3	2.00	0.61
33:BL:116:ASN:HD21	33:BL:126:MET:CE	2.14	0.61
33:BL:9:LYS:CA	33:BL:56:GLU:HG2	2.29	0.61
33:BL:10:LEU:HD13	33:BL:57:ILE:CD1	2.29	0.61
33:BL:76:TYR:O	33:BL:80:LYS:HB2	2.01	0.61
34:BM:55:VAL:HG13	34:BM:125:GLY:O	2.00	0.61
36:BO:125:VAL:O	36:BO:125:VAL:CG1	2.44	0.61
36:BO:137:LYS:HD3	36:BO:140:ALA:CB	2.30	0.61
43:BV:11:ARG:NH2	43:BV:11:ARG:HB3	2.14	0.61
43:BV:25:ARG:HG2	43:BV:71:VAL:CG2	2.29	0.61
44:BW:8:ILE:HD11	44:BW:42:ALA:HB1	1.82	0.61
44:BW:92:LEU:O	44:BW:96:ILE:O	2.19	0.61
46:BY:22:GLY:C	46:BY:41:LEU:HD12	2.20	0.61
25:BB:11:C:P	47:BZ:74:ARG:HH12	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:7:TYR:CE1	26:BC:10:LEU:HB3	2.34	0.61
26:BC:209:LEU:O	26:BC:209:LEU:HD23	2.00	0.61
26:BC:209:LEU:HD21	26:BC:212:VAL:HG21	1.83	0.61
24:BA:2097:C:H2'	24:BA:2098:U:C5'	2.30	0.61
1:AA:1124:G:N2	1:AA:1126:U:H3	1.89	0.61
1:AA:1245:A:H2'	1:AA:1246:C:H6	1.63	0.61
1:AA:1329:A:O2'	1:AA:1330:U:H5'	1.99	0.61
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.62	0.61
1:AA:38:G:N3	1:AA:397:A:N6	2.48	0.61
1:AA:564:C:C5	1:AA:565:U:C5	2.89	0.61
1:AA:817:C:H1'	1:AA:818:G:C5'	2.31	0.61
4:AE:27:LYS:O	4:AE:194:PRO:HG2	2.00	0.61
4:AE:22:LYS:O	4:AE:24:TRP:CD1	2.53	0.61
4:AE:71:VAL:CG1	4:AE:93:VAL:HB	2.30	0.61
5:AF:126:ARG:O	5:AF:127:ARG:CB	2.47	0.61
5:AF:85:ARG:O	5:AF:89:GLU:HB3	2.01	0.61
7:AH:102:ALA:HB2	7:AH:120:THR:HG22	1.82	0.61
7:AH:142:LEU:O	7:AH:143:ARG:HD3	2.00	0.61
7:AH:48:ALA:HB1	7:AH:53:LEU:CB	2.30	0.61
10:AK:63:LEU:HB2	10:AK:65:TYR:CZ	2.36	0.61
11:AL:109:VAL:HG12	11:AL:109:VAL:O	2.01	0.61
11:AL:19:LEU:HD21	11:AL:59:PHE:CB	2.08	0.61
11:AL:19:LEU:HD22	11:AL:59:PHE:CD2	2.31	0.61
11:AL:48:GLU:HB2	11:AL:78:LYS:NZ	2.14	0.61
11:AL:93:ARG:C	11:AL:95:LYS:H	2.03	0.61
13:AN:21:ILE:HD11	13:AN:82:VAL:CG1	2.31	0.61
1:AA:35:G:O2'	14:AO:118:SER:O	2.14	0.61
1:AA:761:G:N3	19:AT:105:ALA:O	2.33	0.61
52:B5:33:LYS:O	52:B5:34:LEU:C	2.39	0.61
52:B5:9:LEU:CD1	52:B5:27:LYS:HD2	2.31	0.61
53:B6:26:GLY:O	53:B6:30:VAL:HG23	2.01	0.61
54:B7:55:ALA:O	54:B7:58:ILE:HD12	2.00	0.61
24:BA:1024:G:C3'	24:BA:1025:G:H5''	2.30	0.61
24:BA:1250:G:O2'	24:BA:1251:C:OP2	2.18	0.61
24:BA:1329:U:H5'	24:BA:1330:C:C5	2.33	0.61
24:BA:143:C:O4'	44:BW:38:GLU:OE1	2.18	0.61
24:BA:1519:G:O5'	24:BA:1520:U:OP2	2.19	0.61
24:BA:1637:A:H4'	24:BA:2711:A:HO2'	1.62	0.61
24:BA:1759:A:O5'	24:BA:1759:A:H8	1.84	0.61
24:BA:740:U:O5'	24:BA:1784:A:N7	2.33	0.61
24:BA:118:A:H1'	24:BA:178:G:H4'	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1869:G:N3	24:BA:1878:G:O6	2.34	0.61
24:BA:216:A:H2'	24:BA:217:G:H8	1.58	0.61
24:BA:2207:C:C2	24:BA:2208:U:O4'	2.53	0.61
24:BA:2227:A:N1	24:BA:2228:G:C5	2.68	0.61
24:BA:2346:A:N3	24:BA:2383:G:C4	2.68	0.61
24:BA:2384:G:H3'	24:BA:2385:C:O3'	2.00	0.61
24:BA:2432:A:C8	24:BA:2433:A:N7	2.68	0.61
24:BA:2447:G:C5	24:BA:2500:U:C4	2.89	0.61
24:BA:2523:G:C2'	24:BA:2524:G:H5'	2.31	0.61
24:BA:2665:A:O2'	24:BA:2666:C:O4'	2.19	0.61
24:BA:2686:G:H2'	24:BA:2687:U:H6	1.65	0.61
24:BA:269:U:O2	24:BA:270:A:N7	2.33	0.61
24:BA:2781:A:O3'	24:BA:2782:G:H4'	2.00	0.61
24:BA:2825:C:C6	24:BA:2825:C:O5'	2.53	0.61
24:BA:311:A:C3'	24:BA:312:G:C8	2.81	0.61
24:BA:289:A:C2'	24:BA:351:G:N2	2.64	0.61
24:BA:360:G:H8	24:BA:360:G:O5'	1.83	0.61
24:BA:400:G:H3'	24:BA:400:G:H8	1.65	0.61
24:BA:50:U:H3'	24:BA:50:U:C6	2.36	0.61
24:BA:793:A:H2'	24:BA:793:A:N3	2.16	0.61
24:BA:808:G:O2'	24:BA:809:G:H5'	2.01	0.61
27:BD:133:LEU:HD23	27:BD:133:LEU:H	1.66	0.61
27:BD:243:GLY:O	27:BD:244:ARG:CG	2.48	0.61
28:BE:3:GLY:O	28:BE:197:ILE:CG2	2.48	0.61
29:BF:132:VAL:HG23	29:BF:132:VAL:O	1.99	0.61
30:BG:30:GLU:CB	30:BG:162:THR:HG21	2.31	0.61
30:BG:57:ALA:HA	30:BG:67:LYS:C	2.21	0.61
34:BM:22:THR:CG2	34:BM:61:ARG:HH12	2.13	0.61
34:BM:58:ASP:OD1	34:BM:124:ALA:O	2.19	0.61
34:BM:71:ILE:HD11	34:BM:90:MET:CE	2.17	0.61
35:BN:75:SER:O	40:BS:77:PRO:HD2	2.00	0.61
36:BO:131:SER:N	36:BO:134:ALA:CB	2.63	0.61
36:BO:17:LYS:HA	36:BO:17:LYS:CE	2.23	0.61
36:BO:89:ALA:CA	36:BO:125:VAL:HG22	2.29	0.61
38:BQ:64:ARG:CZ	38:BQ:65:LEU:HB2	2.31	0.61
39:BR:52:SER:OG	39:BR:73:LEU:HD11	2.00	0.61
39:BR:9:ARG:HA	39:BR:12:PHE:HD2	1.65	0.61
40:BS:27:THR:O	40:BS:28:VAL:C	2.36	0.61
41:BT:94:ASN:O	41:BT:95:LEU:C	2.37	0.61
24:BA:1338:G:H4'	44:BW:16:LYS:NZ	2.15	0.61
45:BX:14:LEU:HD13	45:BX:20:TYR:CA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:110:GLY:O	46:BY:113:ALA:N	2.34	0.61
46:BY:94:GLU:O	46:BY:94:GLU:HG3	2.01	0.61
3:AD:26:A:N3	3:AD:26:A:H2'	2.16	0.61
3:AD:60:U:H3'	3:AD:60:U:C6	2.35	0.61
26:BC:131:LEU:HD22	26:BC:136:LEU:CD1	2.31	0.61
24:BA:316:C:H6	24:BA:316:C:OP2	1.84	0.61
26:BC:1:PRO:C	26:BC:2:LYS:HG3	2.21	0.61
1:AA:1129:C:C4	1:AA:1139:G:C6	2.88	0.61
1:AA:129(A):G:HO2'	1:AA:130:A:P	2.24	0.61
1:AA:1318:A:H4'	21:AV:10:PHE:CD2	2.31	0.61
1:AA:1488:G:C2	1:AA:1489:G:C8	2.88	0.61
1:AA:355:C:C1'	1:AA:388:G:H2'	2.31	0.61
1:AA:491:G:O2'	1:AA:492:G:H5'	2.01	0.61
1:AA:538:G:C4'	14:AO:114:LYS:HD3	2.30	0.61
1:AA:872:A:C2'	1:AA:873:A:H5''	2.31	0.61
1:AA:900:A:H62	1:AA:901:A:N6	1.97	0.61
1:AA:936:C:O2'	1:AA:937:A:H5'	2.00	0.61
1:AA:977:A:H2'	1:AA:977:A:N3	2.16	0.61
1:AA:961:U:C6	1:AA:983:A:C5	2.88	0.61
2:AC:17:C:C4	2:AC:19:G:H8	2.19	0.61
4:AE:18:GLY:H	4:AE:41:ILE:HG23	1.65	0.61
5:AF:134:ILE:HD11	5:AF:153:VAL:HG11	1.82	0.61
5:AF:150:LYS:HA	5:AF:169:ALA:HB2	1.82	0.61
5:AF:83:ARG:C	5:AF:85:ARG:H	2.02	0.61
6:AG:26:CYS:CA	6:AG:31:CYS:HB3	2.29	0.61
6:AG:98:GLU:OE2	6:AG:103:ASN:OD1	2.18	0.61
7:AH:28:PHE:HE1	7:AH:50:GLU:C	2.04	0.61
7:AH:84:PHE:HB3	7:AH:87:SER:O	1.99	0.61
8:AI:76:ALA:HA	8:AI:79:LEU:CD1	2.26	0.61
9:AJ:92:SER:HB2	9:AJ:93:PRO:HD2	1.83	0.61
10:AK:88:LYS:C	10:AK:90:GLY:H	2.04	0.61
15:AP:88:ARG:O	15:AP:91:ARG:HB2	2.00	0.61
17:AR:62:GLN:HE21	17:AR:66:LEU:CD2	2.01	0.61
19:AT:75:ARG:NH1	19:AT:77:VAL:HG13	2.14	0.61
21:AV:10:PHE:CE2	21:AV:12:ASP:HA	2.36	0.61
51:B4:35:GLU:HB3	51:B4:49:CYS:CB	2.31	0.61
53:B6:20:ALA:HB3	53:B6:21:ARG:NH2	2.16	0.61
24:BA:1022:G:C6	24:BA:1139:G:C6	2.89	0.61
24:BA:1237:A:O2'	24:BA:1238:G:P	2.58	0.61
24:BA:126:A:C6	53:B6:18:PHE:CE2	2.88	0.61
24:BA:128:C:C4	24:BA:129:C:N4	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:141(A):C:H2'	24:BA:142:G:C5'	2.31	0.61
24:BA:1538:G:H22	24:BA:1539:G:N2	1.99	0.61
24:BA:1665:A:C2	24:BA:1666:G:C4	2.89	0.61
24:BA:1774:C:C5	24:BA:1775:U:O4	2.54	0.61
24:BA:1800:C:O2'	24:BA:1802:A:O4'	2.17	0.61
24:BA:1856:G:C2'	24:BA:1857:G:H5'	2.28	0.61
24:BA:1935:G:O2'	24:BA:1936:A:OP2	2.18	0.61
24:BA:1952:A:H2	35:BN:22:ILE:HG23	1.64	0.61
24:BA:2394:C:OP1	36:BO:57:THR:HG23	2.00	0.61
24:BA:2414:G:C2	24:BA:2415:G:C8	2.89	0.61
24:BA:2416:C:C2	24:BA:2417:C:C5	2.88	0.61
24:BA:2508:G:C2'	24:BA:2509:G:H5'	2.31	0.61
24:BA:2697:G:O2'	24:BA:2698:U:H5'	2.01	0.61
24:BA:2814:C:H2'	24:BA:2815:C:H6	1.66	0.61
24:BA:280:C:H5	24:BA:283:A:H62	1.38	0.61
24:BA:429:A:C2'	24:BA:430:G:C8	2.83	0.61
24:BA:498:G:H8	24:BA:498:G:O5'	1.84	0.61
24:BA:579:G:C2	24:BA:1262:A:C6	2.89	0.61
24:BA:64:A:H2'	24:BA:65:C:O4'	2.01	0.61
24:BA:691:C:O2'	24:BA:692:C:H5'	2.01	0.61
24:BA:864:G:H2'	24:BA:865:C:H1'	1.83	0.61
25:BB:47:C:O2'	39:BR:92:TYR:CD1	2.53	0.61
27:BD:107:ALA:N	27:BD:108:PRO:HD3	1.98	0.61
27:BD:157:ARG:CB	27:BD:160:GLY:O	2.49	0.61
28:BE:201:THR:C	28:BE:202:LYS:HD3	2.20	0.61
29:BF:162:LEU:CA	29:BF:165:ARG:NH2	2.58	0.61
29:BF:8:GLN:C	29:BF:9:ILE:HD12	2.21	0.61
30:BG:95:ARG:HG3	30:BG:95:ARG:O	2.01	0.61
31:BH:148:ILE:HG23	31:BH:149:ARG:N	2.14	0.61
31:BH:153:LYS:HG2	31:BH:154:PRO:N	2.14	0.61
33:BL:12:LEU:HD21	33:BL:23:VAL:HG23	1.81	0.61
37:BP:32:TYR:HE2	37:BP:109:VAL:H	1.48	0.61
39:BR:10:ARG:NH2	39:BR:91:PRO:CA	2.63	0.61
40:BS:27:THR:HG23	40:BS:52:ILE:C	2.20	0.61
41:BT:100:VAL:CG2	41:BT:101:ARG:H	2.13	0.61
24:BA:995:C:O2	41:BT:57:PHE:CE2	2.53	0.61
42:BU:28:GLU:O	42:BU:30:GLY:N	2.34	0.61
42:BU:69:LYS:HA	42:BU:92:THR:CB	2.31	0.61
43:BV:28:SER:HA	43:BV:70:TYR:HA	1.82	0.61
44:BW:29:TRP:HA	44:BW:77:LYS:O	2.00	0.61
46:BY:74:VAL:HG13	46:BY:85:HIS:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:131:LEU:HD13	26:BC:136:LEU:O	1.99	0.61
3:AD:62:C:C4'	26:BC:52:ARG:HB3	2.21	0.61
24:BA:1418:G:OP1	24:BA:1588:C:C4'	2.48	0.61
32:BK:67:ARG:O	32:BK:71:ILE:HG13	2.00	0.61
25:BB:25:A:O2'	25:BB:26:A:H5'	1.99	0.61
1:AA:926:G:C2	1:AA:1505:G:C2	2.88	0.61
1:AA:20:U:H5'	1:AA:572:A:C6	2.34	0.61
1:AA:283:C:C2	1:AA:284:G:C8	2.88	0.61
1:AA:522:C:C4	1:AA:523:A:N7	2.68	0.61
1:AA:540:G:C6	1:AA:541:G:C5	2.89	0.61
1:AA:744:C:H2'	1:AA:745:C:C6	2.35	0.61
1:AA:754:C:H3'	1:AA:754:C:O2	2.00	0.61
1:AA:863:U:H2'	1:AA:865:A:OP2	2.01	0.61
2:AC:33:U:C2	2:AC:35:A:OP2	2.54	0.61
2:AC:60:U:C4'	2:AC:61:C:OP2	2.46	0.61
4:AE:196:LEU:HD12	4:AE:197:VAL:CA	2.29	0.61
4:AE:23:ARG:C	4:AE:24:TRP:HD1	2.04	0.61
5:AF:202:ILE:O	5:AF:204:LEU:HD23	2.01	0.61
5:AF:52:LEU:O	5:AF:53:ALA:HB2	2.01	0.61
6:AG:56:VAL:HG12	6:AG:57:ARG:N	2.15	0.61
9:AJ:95:ARG:O	9:AJ:96:GLN:C	2.38	0.61
10:AK:9:MET:HG3	10:AK:26:VAL:HG21	1.82	0.61
10:AK:98:LYS:HZ2	10:AK:98:LYS:N	1.99	0.61
11:AL:9:ARG:HD2	11:AL:14:VAL:HG13	1.83	0.61
14:AO:117:ARG:HH21	14:AO:123:LYS:C	2.04	0.61
21:AV:30:LEU:HD12	21:AV:59:PRO:HA	1.83	0.61
1:AA:1316:G:O6	21:AV:6:LYS:HE2	2.01	0.61
1:AA:1320:C:C5	21:AV:72:GLY:HA3	2.35	0.61
22:AW:15:ARG:O	22:AW:18:GLN:HG3	2.01	0.61
48:B1:30:LEU:O	48:B1:33:GLN:CB	2.48	0.61
54:B7:43:GLN:CD	54:B7:43:GLN:N	2.54	0.61
24:BA:1186:G:H8	24:BA:1187:G:C8	2.18	0.61
24:BA:1240:U:H2'	24:BA:1240:U:O2	2.01	0.61
24:BA:1395:A:P	24:BA:1603:A:OP1	2.58	0.61
24:BA:1472:A:H1'	24:BA:1473:G:C8	2.36	0.61
24:BA:1539:G:N7	24:BA:1540:G:N7	2.48	0.61
24:BA:1559:G:O6	24:BA:1560:G:O4'	2.19	0.61
24:BA:1656:C:OP1	28:BE:117:MET:HB2	2.01	0.61
24:BA:1890:A:H3'	24:BA:1891:G:H8	1.66	0.61
24:BA:1918:A:N7	24:BA:1919:A:C6	2.69	0.61
24:BA:2312:U:P	30:BG:86:MET:HG2	2.41	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2324:C:O2	24:BA:2385:C:H5	1.84	0.61
24:BA:2393:A:H5''	36:BO:56:SER:CA	2.30	0.61
24:BA:2407:G:H5''	24:BA:2408:U:O4	2.01	0.61
24:BA:2531:A:C2'	24:BA:2532:G:O5'	2.49	0.61
24:BA:2572:A:C8	24:BA:2572:A:OP2	2.53	0.61
24:BA:2748:A:N3	31:BH:67:LEU:CD1	2.62	0.61
24:BA:2791:C:C4	24:BA:2807:G:N7	2.69	0.61
24:BA:386:G:H4'	24:BA:387:U:H6	1.63	0.61
24:BA:471:A:N7	24:BA:472:A:N7	2.49	0.61
24:BA:875:G:H2'	24:BA:875:G:N3	2.14	0.61
27:BD:244:ARG:HA	27:BD:252:TRP:CD1	2.36	0.61
27:BD:37:LEU:CD2	27:BD:63:ARG:HA	2.30	0.61
27:BD:76:PRO:HG2	27:BD:98:VAL:CG2	2.31	0.61
28:BE:104:VAL:HG22	28:BE:198:VAL:CA	2.24	0.61
28:BE:164:ARG:O	28:BE:165:VAL:CG2	2.48	0.61
28:BE:50:GLY:H	28:BE:76:ARG:CG	2.14	0.61
24:BA:321:G:OP2	29:BF:135:LYS:HG2	2.01	0.61
29:BF:194:MET:CE	29:BF:200:GLU:HB3	2.31	0.61
30:BG:44:GLY:HA2	30:BG:72:ARG:HG3	1.83	0.61
35:BN:104:ARG:CA	35:BN:107:ARG:HD2	2.28	0.61
24:BA:2334:G:N2	39:BR:11:LYS:HE3	2.15	0.61
40:BS:64:ARG:CZ	40:BS:77:PRO:CA	2.79	0.61
42:BU:79:VAL:CG1	42:BU:81:TYR:HD1	2.05	0.61
43:BV:33:ARG:O	43:BV:33:ARG:NH1	2.33	0.61
46:BY:163:LEU:CD1	46:BY:163:LEU:H	2.09	0.61
3:AD:17:U:H5'	3:AD:18:G:O5'	2.00	0.61
24:BA:1414:G:C6	24:BA:1415:U:C4	2.88	0.61
1:AA:1250:A:N3	1:AA:1370:G:O2'	2.34	0.61
1:AA:1338:G:C2	1:AA:1339:A:C5	2.89	0.61
1:AA:319:G:C5'	1:AA:1468:A:H4'	2.30	0.61
1:AA:382:A:H2'	1:AA:383:A:O5'	2.00	0.61
1:AA:515:G:O6	1:AA:533:A:N7	2.34	0.61
1:AA:547:A:H4'	1:AA:548:G:O5'	1.99	0.61
1:AA:557:G:H3'	1:AA:558:G:C8	2.35	0.61
1:AA:91:C:C2	1:AA:92:G:C8	2.88	0.61
1:AA:975:A:C8	1:AA:1365:G:N2	2.69	0.61
1:AA:978:A:N6	1:AA:1361:G:N2	2.45	0.61
4:AE:88:ALA:HB2	4:AE:219:VAL:HG13	1.81	0.61
4:AE:97:TRP:CZ2	4:AE:102:LEU:HD22	2.35	0.61
5:AF:142:MET:CB	5:AF:149:ALA:HB2	2.31	0.61
5:AF:156:ARG:H	5:AF:163:ALA:HB1	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:53:ALA:HB3	5:AF:69:HIS:O	2.00	0.61
6:AG:200:GLU:O	6:AG:201:GLN:C	2.38	0.61
6:AG:31:CYS:O	6:AG:33:MET:CG	2.49	0.61
6:AG:42:GLN:HG2	6:AG:43:HIS:CE1	2.36	0.61
7:AH:144:THR:C	7:AH:146:ALA:N	2.50	0.61
7:AH:71:LEU:HD23	7:AH:72:GLN:N	2.16	0.61
7:AH:81:GLU:HG3	7:AH:90:VAL:HG23	1.82	0.61
8:AI:52:ILE:CG2	8:AI:87:ARG:HH12	2.14	0.61
9:AJ:104:LEU:HD22	9:AJ:134:ALA:CB	2.31	0.61
10:AK:72:PRO:O	10:AK:73:ASP:CB	2.46	0.61
11:AL:5:TYR:HD2	11:AL:6:GLY:H	1.47	0.61
14:AO:11:VAL:HG22	19:AT:32:TYR:HD1	1.65	0.61
18:AS:74:LEU:HD22	18:AS:79:VAL:HB	1.82	0.61
19:AT:22:LEU:HD12	19:AT:23:VAL:H	1.66	0.61
19:AT:29:HIS:ND1	19:AT:32:TYR:N	2.47	0.61
21:AV:4:SER:C	21:AV:5:LEU:HD23	2.21	0.61
22:AW:25:ARG:HB2	22:AW:25:ARG:CZ	2.30	0.61
24:BA:96:G:H4'	48:B1:43:HIS:CE1	2.35	0.61
50:B3:28:LYS:CB	50:B3:29:PRO:CD	2.78	0.61
50:B3:59:PHE:C	50:B3:61:ARG:N	2.48	0.61
50:B3:59:PHE:HB3	50:B3:62:ARG:NH2	2.15	0.61
51:B4:13:LYS:O	51:B4:17:ASP:CG	2.40	0.61
24:BA:1085:A:H4'	24:BA:1086:A:O5'	2.01	0.61
24:BA:1231:G:H2'	24:BA:1232:G:H8	1.66	0.61
24:BA:1323:U:OP2	43:BV:84:ARG:NH1	2.33	0.61
24:BA:1512:G:H5'	24:BA:1513:C:OP2	2.00	0.61
24:BA:1572:A:OP1	24:BA:1572:A:O4'	2.17	0.61
24:BA:1797:C:H2'	24:BA:1798:U:H6	1.66	0.61
24:BA:2049:G:H2'	24:BA:2050:C:O5'	2.01	0.61
24:BA:2208:U:H2'	24:BA:2209:C:C5'	2.24	0.61
24:BA:2226:C:H1'	27:BD:262:ARG:CZ	2.31	0.61
24:BA:2226:C:O2	24:BA:2227:A:H1'	2.01	0.61
24:BA:2284:C:H5''	52:B5:9:LEU:CG	2.31	0.61
24:BA:2308:G:O5'	24:BA:2308:G:H8	1.84	0.61
24:BA:2335:A:C2'	24:BA:2337:G:N7	2.63	0.61
24:BA:2377:A:N3	24:BA:2378:A:N7	2.48	0.61
24:BA:2449:U:O2'	24:BA:2450:A:H5'	2.00	0.61
24:BA:2479:G:C2	24:BA:2480:C:H1'	2.35	0.61
24:BA:2517:C:C6	24:BA:2542:A:N7	2.69	0.61
24:BA:225:A:O2'	24:BA:257:A:H4'	2.01	0.61
24:BA:2602:A:O2'	24:BA:2603:G:P	2.57	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2704:C:H2'	24:BA:2705:A:C1'	2.30	0.61
24:BA:2748:A:C2	24:BA:2757:A:N6	2.63	0.61
24:BA:2808:U:H5''	24:BA:2809:A:OP2	2.01	0.61
24:BA:2865:U:H6	24:BA:2865:U:O5'	1.83	0.61
24:BA:515:A:H5'	24:BA:581:C:H4'	1.81	0.61
24:BA:559:G:O2'	24:BA:560:C:O5'	2.19	0.61
24:BA:61:G:C5	24:BA:62:C:C4	2.89	0.61
24:BA:685:A:H5''	24:BA:686:G:H21	1.66	0.61
24:BA:691:C:C2	24:BA:692:C:C5	2.88	0.61
24:BA:830:G:C4	24:BA:2448:A:N7	2.69	0.61
27:BD:76:PRO:HG2	27:BD:98:VAL:HG21	1.82	0.61
28:BE:45:THR:OG1	28:BE:46:ALA:N	2.32	0.61
29:BF:160:ASN:HB2	29:BF:163:VAL:HB	1.83	0.61
30:BG:34:LEU:HB2	30:BG:100:TRP:HZ2	1.65	0.61
24:BA:2309:A:N7	30:BG:80:PHE:CE2	2.69	0.61
24:BA:2312:U:OP2	30:BG:86:MET:SD	2.59	0.61
30:BG:36:LYS:HG2	30:BG:95:ARG:HD3	1.82	0.61
31:BH:40:GLU:HG2	31:BH:55:PRO:CG	2.30	0.61
34:BM:115:ARG:HA	34:BM:118:LYS:CD	2.31	0.61
34:BM:15:LEU:CG	34:BM:138:LEU:O	2.44	0.61
34:BM:37:LYS:HZ1	34:BM:43:THR:HG22	1.66	0.61
35:BN:18:LYS:HZ1	35:BN:44:LYS:NZ	1.97	0.61
35:BN:96:THR:HA	35:BN:117:LEU:HD11	1.83	0.61
37:BP:20:ALA:HB1	37:BP:98:LYS:CD	2.30	0.61
37:BP:22:LYS:HG3	37:BP:23:GLY:N	2.16	0.61
37:BP:9:TYR:N	37:BP:9:TYR:CD2	2.66	0.61
40:BS:34:VAL:O	40:BS:44:ASP:O	2.19	0.61
40:BS:57:PHE:C	40:BS:61:PHE:CE2	2.74	0.61
41:BT:55:ARG:HA	41:BT:58:ARG:HE	1.65	0.61
41:BT:97:ASP:O	41:BT:101:ARG:CG	2.44	0.61
42:BU:20:LEU:CD2	42:BU:95:LEU:HD13	2.31	0.61
42:BU:3:ALA:O	42:BU:12:TYR:CE2	2.53	0.61
43:BV:23:LEU:HD11	51:B4:25:LEU:HG	1.83	0.61
45:BX:24:VAL:HG23	45:BX:38:ILE:HB	1.83	0.61
25:BB:11:C:OP1	47:BZ:72:ARG:NH1	2.34	0.61
32:BK:127:VAL:HG13	32:BK:141:LYS:CA	2.31	0.61
32:BK:77:LEU:HD12	32:BK:142:VAL:CG1	2.30	0.61
24:BA:2111:C:C4	24:BA:2118:U:N3	2.69	0.61
26:BC:211:SER:CB	26:BC:223:ARG:HH21	2.12	0.61
1:AA:1003:G:C2	1:AA:1004:A:O2'	2.54	0.61
1:AA:1037:C:N4	1:AA:1038:C:N4	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2104:G:C2	24:BA:2105:C:C2	2.89	0.61
26:BC:1:PRO:O	26:BC:2:LYS:HG3	2.01	0.61
1:AA:1191:A:OP1	5:AF:4:LYS:CG	2.48	0.61
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.36	0.61
1:AA:1261:A:C2	1:AA:1262:C:C2	2.88	0.61
1:AA:819:A:N3	1:AA:1529:G:O6	2.34	0.61
1:AA:367:U:H4'	1:AA:368:U:OP1	2.01	0.61
1:AA:486:U:H2'	1:AA:487:A:O5'	2.00	0.61
1:AA:517:G:N2	1:AA:532:A:O3'	2.29	0.61
1:AA:592:G:C2'	1:AA:593:G:H5'	2.30	0.61
1:AA:864:A:H8	1:AA:864:A:O5'	1.83	0.61
1:AA:970:C:H5''	1:AA:971:G:OP1	2.00	0.61
2:AC:75:C:OP1	2:AC:76:A:OP2	2.19	0.61
1:AA:1190:G:OP1	5:AF:4:LYS:HA	2.00	0.61
6:AG:102:ASP:HB2	6:AG:136:PRO:CB	2.31	0.61
1:AA:403:C:O2'	6:AG:122:ARG:CZ	2.48	0.61
6:AG:85:LYS:O	6:AG:86:LYS:O	2.18	0.61
6:AG:94:LEU:HD11	6:AG:200:GLU:OE1	2.01	0.61
7:AH:151:LEU:HD11	10:AK:67:PRO:HG3	1.82	0.61
7:AH:11:ILE:HB	7:AH:31:LEU:CD2	2.30	0.61
11:AL:70:LYS:O	11:AL:71:SER:C	2.39	0.61
12:AM:79:ARG:HH22	12:AM:82:ILE:CD1	2.13	0.61
13:AN:50:TYR:O	13:AN:55:LYS:HG2	2.01	0.61
1:AA:1360:A:N6	16:AQ:18:VAL:HG12	2.15	0.61
16:AQ:39:LEU:HD13	16:AQ:44:LEU:CA	2.30	0.61
18:AS:57:ARG:HA	18:AS:60:LEU:CD1	2.21	0.61
19:AT:43:LEU:HD12	19:AT:69:LYS:CB	2.30	0.61
21:AV:11:VAL:O	21:AV:12:ASP:O	2.19	0.61
49:B2:28:LEU:HA	49:B2:33:GLN:NE2	2.15	0.61
50:B3:57:GLU:HA	50:B3:57:GLU:OE2	2.00	0.61
53:B6:30:VAL:HA	53:B6:33:ARG:CZ	2.31	0.61
54:B7:15:LYS:O	54:B7:22:VAL:CA	2.47	0.61
54:B7:55:ALA:O	54:B7:56:GLU:C	2.38	0.61
24:BA:120:U:C2'	24:BA:121:G:OP2	2.48	0.61
24:BA:1338:G:N2	24:BA:1393:A:H2	1.97	0.61
24:BA:1402:C:O2	24:BA:1402:C:H2'	2.00	0.61
24:BA:1703:G:C2'	24:BA:1704:G:H5'	2.31	0.61
24:BA:151:C:N3	24:BA:176:G:N2	2.49	0.61
24:BA:2052:G:C4	24:BA:2053:G:C8	2.89	0.61
24:BA:574:C:C5	24:BA:2054:A:O3'	2.49	0.61
24:BA:2271:G:H8	24:BA:2271:G:O5'	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2385:C:C2'	24:BA:2386:C:O5'	2.49	0.61
24:BA:2423:U:C1'	24:BA:2425:A:C8	2.83	0.61
24:BA:2524:G:H2'	24:BA:2525:G:O4'	2.01	0.61
24:BA:2698:U:H2'	24:BA:2699:C:H5	1.64	0.61
24:BA:2703:C:O2	24:BA:2703:C:H2'	2.01	0.61
24:BA:2821:A:P	28:BE:110:GLY:HA3	2.40	0.61
24:BA:356:G:C3'	24:BA:357:A:C8	2.84	0.61
24:BA:364:C:C2'	24:BA:365:C:C6	2.76	0.61
24:BA:387:U:C2'	24:BA:387:U:O2	2.49	0.61
24:BA:423:A:H8	24:BA:423:A:H3'	1.66	0.61
24:BA:445:C:OP1	41:BT:3:ARG:HG3	2.00	0.61
24:BA:511:U:H5	24:BA:512:G:C2	2.19	0.61
24:BA:513:A:C6	24:BA:514:A:N7	2.69	0.61
24:BA:571:A:O2'	24:BA:573:G:C8	2.42	0.61
24:BA:582:G:H2'	24:BA:583:G:H8	1.66	0.61
24:BA:608:A:C2'	24:BA:609:A:H5'	2.31	0.61
24:BA:666:G:O2'	24:BA:667:U:H5'	2.01	0.61
24:BA:785:G:H2'	24:BA:786:C:H6	1.62	0.61
24:BA:6:A:O2'	24:BA:7:G:H5'	2.01	0.61
24:BA:915:C:H2'	24:BA:916:G:H8	1.64	0.61
24:BA:961:C:C4	24:BA:2031:A:N3	2.68	0.61
24:BA:973:A:C8	24:BA:973:A:H3'	2.36	0.61
25:BB:65:C:H2'	25:BB:66:A:H5'	1.82	0.61
27:BD:40:THR:HG21	27:BD:43:ARG:HH21	1.65	0.61
28:BE:101:ARG:O	28:BE:202:LYS:NZ	2.32	0.61
29:BF:123:LEU:HG	29:BF:191:ARG:CG	2.30	0.61
29:BF:182:ASN:HD21	29:BF:185:ASP:CG	2.03	0.61
29:BF:30:PRO:HG2	29:BF:31:HIS:H	1.66	0.61
30:BG:81:LYS:O	30:BG:81:LYS:CG	2.49	0.61
31:BH:106:THR:HB	31:BH:111:HIS:CE1	2.36	0.61
32:BK:52:ARG:O	32:BK:55:ALA:HB3	2.00	0.61
34:BM:12:ARG:NH1	34:BM:12:ARG:CG	2.57	0.61
24:BA:1131:G:O4'	34:BM:82:LEU:HD11	1.99	0.61
35:BN:106:LEU:HD13	40:BS:39:ARG:NH2	2.16	0.61
37:BP:68:ILE:HG23	37:BP:95:ALA:CB	2.30	0.61
38:BQ:113:LEU:HD13	38:BQ:114:VAL:N	2.15	0.61
40:BS:103:ARG:C	40:BS:105:LEU:N	2.52	0.61
40:BS:2:ASN:CG	40:BS:3:ARG:H	1.90	0.61
40:BS:55:ASN:ND2	40:BS:57:PHE:CZ	2.68	0.61
40:BS:63:VAL:HG12	40:BS:78:LEU:HB2	1.82	0.61
41:BT:10:ARG:O	41:BT:11:ARG:C	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:33:ARG:HH11	41:BT:33:ARG:CB	2.14	0.61
41:BT:5:LYS:C	41:BT:7:GLY:H	2.02	0.61
43:BV:73:ALA:O	43:BV:74:ALA:HB2	2.00	0.61
46:BY:45:ASP:OD1	46:BY:45:ASP:N	2.31	0.61
47:BZ:21:LEU:HD21	47:BZ:40:GLN:HA	1.83	0.61
32:BK:130:TYR:O	32:BK:138:ILE:HG22	2.00	0.61
3:AD:17:U:O4	3:AD:19:G:C8	2.53	0.61
24:BA:2158:A:O2'	24:BA:2159:G:P	2.59	0.61
24:BA:2194:G:H2'	24:BA:2194:G:N3	2.15	0.61
24:BA:171:G:H2'	24:BA:172:C:C5	2.36	0.61
14:AO:102:ARG:CZ	14:AO:109:GLY:HA2	2.29	0.61
1:AA:1029:G:H1'	1:AA:1032:A:H62	1.65	0.61
1:AA:1054:C:H2'	1:AA:1055:A:H5''	1.83	0.60
1:AA:1159:U:C5	1:AA:1181:G:N7	2.68	0.60
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.37	0.60
1:AA:1391:U:H2'	1:AA:1392:G:N7	2.16	0.60
1:AA:1492:A:C8	1:AA:1493:A:N3	2.69	0.60
1:AA:150:C:H6	1:AA:150:C:O5'	1.84	0.60
1:AA:449:C:H2'	1:AA:450:G:O4'	2.00	0.60
1:AA:528:C:N4	14:AO:49:ASN:HD21	1.96	0.60
1:AA:689:C:C5	1:AA:690:G:N7	2.69	0.60
1:AA:777:A:C2'	1:AA:778:G:H8	2.04	0.60
1:AA:789:U:H6	1:AA:789:U:H3'	1.66	0.60
1:AA:797:C:H2'	1:AA:798:G:H8	1.66	0.60
1:AA:858:G:N2	1:AA:869:G:H2'	2.15	0.60
2:AC:29:G:OP1	15:AP:119:GLY:HA3	2.00	0.60
3:AD:38:A:C6	3:AD:39:U:C5	2.89	0.60
3:AD:40:C:C2'	3:AD:41:G:H5''	2.31	0.60
4:AE:91:PRO:CG	4:AE:154:LEU:HB3	2.26	0.60
6:AG:150:GLU:O	6:AG:153:ARG:HG3	2.00	0.60
8:AI:3:ARG:C	8:AI:4:TYR:HD2	2.04	0.60
10:AK:47:GLY:O	10:AK:61:VAL:HA	2.01	0.60
10:AK:91:ARG:HG2	19:AT:34:LYS:HB2	1.82	0.60
13:AN:81:ASP:OD1	13:AN:106:LYS:CD	2.46	0.60
13:AN:84:VAL:HG21	20:AU:88:LYS:HD2	1.83	0.60
15:AP:60:VAL:HG22	15:AP:63:THR:CG2	2.31	0.60
1:AA:1316:G:C4'	16:AQ:17:LYS:HD2	2.28	0.60
12:AM:49:VAL:HG22	16:AQ:41:ARG:HB2	1.81	0.60
19:AT:29:HIS:CG	19:AT:30:PRO:HD2	2.36	0.60
13:AN:110:ASP:HB2	20:AU:88:LYS:CB	2.31	0.60
1:AA:1312:G:N7	21:AV:3:ARG:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1286:A:H5'	23:AX:25:LYS:CG	2.31	0.60
50:B3:27:THR:CG2	50:B3:28:LYS:H	2.12	0.60
50:B3:1:MET:O	50:B3:2:LYS:HD2	2.01	0.60
52:B5:25:LYS:O	52:B5:26:ASN:ND2	2.33	0.60
52:B5:48:VAL:O	52:B5:49:HIS:HB3	2.00	0.60
24:BA:1206:G:C8	24:BA:1206:G:O5'	2.54	0.60
24:BA:1292:U:H2'	24:BA:1293:C:H6	1.66	0.60
24:BA:1343:G:C3'	24:BA:1344:G:H5''	2.31	0.60
24:BA:1675:C:C2'	24:BA:1676:A:C5'	2.78	0.60
24:BA:1903:G:H2'	24:BA:1904:G:C8	2.34	0.60
24:BA:197:A:C5	24:BA:2430:A:N7	2.68	0.60
24:BA:1987:G:H2'	24:BA:1988:C:C6	2.36	0.60
24:BA:1999:C:C2	24:BA:2000:G:C8	2.89	0.60
24:BA:2056:G:P	24:BA:2057:A:OP2	2.58	0.60
24:BA:2436:G:C5	24:BA:2437:U:C5	2.89	0.60
24:BA:2504:U:H3'	24:BA:2504:U:C6	2.35	0.60
24:BA:2562:U:C2'	35:BN:23:ARG:HH21	2.14	0.60
24:BA:2023:G:H5''	24:BA:2617:C:O2'	2.01	0.60
24:BA:2649:U:H2'	24:BA:2650:U:C5	2.35	0.60
24:BA:2712(A):A:C5'	24:BA:2713:A:H5''	2.31	0.60
24:BA:2712:U:C2'	24:BA:2712(A):A:O5'	2.49	0.60
24:BA:2753:A:N3	24:BA:2753:A:H2'	2.16	0.60
24:BA:320:A:H2'	29:BF:136:THR:CG2	2.25	0.60
24:BA:34:C:H5''	24:BA:35:G:OP2	2.01	0.60
24:BA:41:C:H2'	24:BA:43:G:H8	1.65	0.60
27:BD:169:GLU:HG2	27:BD:184:LYS:HZ1	1.66	0.60
27:BD:224:ALA:H	27:BD:233:HIS:CE1	2.18	0.60
27:BD:261:LYS:O	27:BD:263:ARG:N	2.33	0.60
27:BD:64:ILE:C	27:BD:64:ILE:HD13	2.21	0.60
29:BF:66:PRO:C	29:BF:68:LYS:N	2.52	0.60
30:BG:4:ASP:HB3	30:BG:104:GLU:HG3	1.81	0.60
31:BH:163:TYR:O	31:BH:164:TYR:O	2.19	0.60
31:BH:35:VAL:HG21	31:BH:72:ILE:CG2	2.27	0.60
33:BL:103:GLN:HA	33:BL:106:GLU:CD	2.21	0.60
35:BN:96:THR:HA	35:BN:117:LEU:CD1	2.30	0.60
36:BO:97:PRO:N	36:BO:102:ARG:CZ	2.64	0.60
36:BO:15:ARG:NH2	36:BO:15:ARG:HG3	2.14	0.60
24:BA:662:G:C5'	36:BO:17:LYS:H	2.07	0.60
36:BO:76:LYS:HE3	36:BO:99:LEU:CD1	2.30	0.60
38:BQ:67:LEU:CD2	38:BQ:71:GLN:HA	2.31	0.60
35:BN:106:LEU:HD11	40:BS:38:ASN:HD22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:52:ILE:HG12	40:BS:66:VAL:HG13	1.82	0.60
40:BS:6:LEU:HD23	40:BS:7:ILE:HG23	1.82	0.60
40:BS:73:GLU:O	40:BS:74:ARG:HG3	2.01	0.60
41:BT:53:ARG:HA	41:BT:56:ASP:CG	2.21	0.60
41:BT:47:TYR:CZ	42:BU:76:LYS:C	2.74	0.60
46:BY:145:GLU:C	46:BY:147:GLY:H	2.04	0.60
32:BK:123:LEU:HD11	32:BK:145:VAL:CA	2.27	0.60
32:BK:69:LYS:HZ2	32:BK:70:LYS:HE2	1.66	0.60
32:BK:93:THR:H	32:BK:96:ASP:CG	2.05	0.60
18:AS:44:THR:HG23	18:AS:45:THR:N	2.11	0.60
4:AE:130:ARG:HB3	4:AE:131:PRO:HD2	1.82	0.60
45:BX:104:GLY:O	45:BX:105:ALA:O	2.19	0.60
1:AA:1057:G:H4'	5:AF:197:GLY:H	1.66	0.60
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.37	0.60
1:AA:236:G:H2'	1:AA:236:G:N3	2.16	0.60
1:AA:377:G:H2'	1:AA:378:G:H8	1.66	0.60
1:AA:646:U:C2	1:AA:647:C:C5	2.89	0.60
1:AA:697:U:H5'	1:AA:786:G:O2'	2.01	0.60
1:AA:727:G:H3'	1:AA:727:G:H8	1.64	0.60
1:AA:780:A:H2	1:AA:803:G:C6	2.18	0.60
1:AA:812:C:O2'	1:AA:813:U:P	2.59	0.60
4:AE:115:LEU:HA	4:AE:118:LEU:CD1	2.28	0.60
4:AE:70:PHE:O	4:AE:92:TYR:CB	2.49	0.60
5:AF:142:MET:HB3	5:AF:149:ALA:HB2	1.83	0.60
6:AG:104:VAL:HA	6:AG:107:ARG:CB	2.27	0.60
7:AH:69:VAL:O	7:AH:71:LEU:N	2.34	0.60
8:AI:33:TYR:CE2	8:AI:74:ASP:HB2	2.32	0.60
9:AJ:143:ARG:O	9:AJ:145:ALA:O	2.19	0.60
10:AK:29:SER:CA	10:AK:32:LYS:NZ	2.64	0.60
10:AK:60:ARG:HG3	10:AK:61:VAL:H	1.61	0.60
13:AN:78:GLN:O	13:AN:103:LEU:O	2.19	0.60
14:AO:54:LYS:CD	14:AO:54:LYS:H	2.14	0.60
15:AP:13:LYS:O	15:AP:14:ARG:O	2.18	0.60
15:AP:96:LEU:H	15:AP:96:LEU:HD23	1.67	0.60
1:AA:1316:G:C5'	16:AQ:17:LYS:HZ2	2.14	0.60
19:AT:58:GLU:OE2	19:AT:75:ARG:N	2.35	0.60
48:B1:24:LYS:NZ	48:B1:56:LEU:HD21	2.16	0.60
48:B1:38:GLN:H	48:B1:41:GLN:CD	2.04	0.60
51:B4:43:HIS:O	51:B4:44:THR:HG23	2.01	0.60
52:B5:16:CYS:CB	52:B5:49:HIS:CA	2.76	0.60
24:BA:1022:G:N7	34:BM:65:LYS:HE3	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1022:G:O6	34:BM:65:LYS:NZ	2.25	0.60
24:BA:1100:C:O2'	24:BA:1101:U:OP1	2.16	0.60
24:BA:1128:A:N6	24:BA:2518:A:H61	1.99	0.60
24:BA:1200:C:C2	24:BA:1246:A:C2	2.89	0.60
24:BA:1343:G:H1'	24:BA:1597:A:N1	2.15	0.60
24:BA:1361:G:H2'	24:BA:1362:C:C6	2.32	0.60
24:BA:1363:C:H1'	24:BA:1810:A:H1'	1.83	0.60
24:BA:1406:U:O2'	24:BA:1407:C:O5'	2.10	0.60
24:BA:14:A:H8	24:BA:15:G:O4'	1.83	0.60
24:BA:1394:U:C5'	24:BA:1603:A:O3'	2.37	0.60
24:BA:1609:A:C6	24:BA:1616:A:H2	2.19	0.60
24:BA:185:U:H5'	24:BA:217:G:H21	1.65	0.60
24:BA:1924:C:C2	24:BA:1925:C:C5	2.90	0.60
24:BA:2234:G:C2	24:BA:2235:G:C4	2.89	0.60
24:BA:2436:G:C6	24:BA:2437:U:C4	2.89	0.60
24:BA:2056:G:C5	24:BA:2577:A:N3	2.69	0.60
24:BA:2075:U:O4'	24:BA:2597:G:N2	2.34	0.60
24:BA:2645:G:O4'	24:BA:2645:G:OP2	2.18	0.60
24:BA:2662:A:H2'	24:BA:2663:G:C5'	2.27	0.60
24:BA:2751:G:N3	24:BA:2751:G:H2'	2.15	0.60
24:BA:2818:G:H4'	24:BA:2837:G:H4'	1.82	0.60
24:BA:2889:C:C2	24:BA:2891:G:C8	2.89	0.60
24:BA:427:U:O2	24:BA:428:A:C8	2.48	0.60
24:BA:672:C:C2	24:BA:673:C:C5	2.89	0.60
25:BB:28:C:C6	25:BB:28:C:O5'	2.51	0.60
27:BD:188:GLU:CD	27:BD:188:GLU:N	2.48	0.60
24:BA:2597:G:C1'	27:BD:242:ARG:NH2	2.64	0.60
27:BD:232:PRO:CG	27:BD:247:ALA:CA	2.68	0.60
28:BE:188:VAL:O	28:BE:190:GLY:N	2.34	0.60
28:BE:203:LYS:HD3	28:BE:203:LYS:O	2.01	0.60
30:BG:19:LEU:O	30:BG:20:ILE:C	2.40	0.60
30:BG:22:ARG:HD2	30:BG:23:PHE:CD2	2.36	0.60
33:BL:10:LEU:HD11	33:BL:41:PHE:HE1	1.66	0.60
33:BL:79:ARG:HH21	33:BL:80:LYS:HE2	1.64	0.60
34:BM:130:HIS:O	34:BM:133:GLN:HB2	2.00	0.60
34:BM:48:MET:O	34:BM:49:GLY:C	2.39	0.60
34:BM:55:VAL:O	34:BM:56:ASN:HB2	2.00	0.60
35:BN:103:ALA:O	35:BN:106:LEU:N	2.34	0.60
36:BO:122:PRO:HA	36:BO:137:LYS:C	2.19	0.60
39:BR:29:PHE:HD1	39:BR:30:ARG:N	1.98	0.60
40:BS:50:ILE:CG2	40:BS:68:TYR:CB	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:37:ARG:HG3	43:BV:38:TYR:HD1	1.66	0.60
44:BW:36:LYS:HD2	44:BW:54:VAL:O	2.00	0.60
45:BX:39:VAL:O	45:BX:40:GLU:HB3	2.01	0.60
47:BZ:28:GLY:O	47:BZ:67:VAL:N	2.34	0.60
47:BZ:46:LYS:CE	47:BZ:77:ARG:N	2.64	0.60
32:BK:87:LYS:NZ	32:BK:121:LYS:N	2.36	0.60
3:AD:59:U:O2	3:AD:59:U:H2'	2.00	0.60
24:BA:2133:G:O6	24:BA:2157:G:C8	2.54	0.60
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.83	0.60
1:AA:1039:C:H2'	1:AA:1040:U:C6	2.36	0.60
25:BB:1:U:C4	25:BB:2:C:N4	2.69	0.60
25:BB:1:U:H6	25:BB:1:U:H5''	1.66	0.60
24:BA:363(D):G:C2	24:BA:363(E):U:H1'	2.35	0.60
1:AA:963:G:H5'	1:AA:1200:C:N4	2.16	0.60
1:AA:1284:C:C4	1:AA:1285:A:C5	2.89	0.60
1:AA:237:C:OP1	19:AT:40:LYS:NZ	2.33	0.60
1:AA:411:A:C6	1:AA:429:U:C4	2.89	0.60
1:AA:427:U:OP1	6:AG:41:GLY:HA2	2.02	0.60
1:AA:690:G:C2	1:AA:691:G:O4'	2.54	0.60
1:AA:817:C:O2	1:AA:817:C:O2'	2.19	0.60
1:AA:829:G:H4'	4:AE:26:PRO:HG3	1.83	0.60
4:AE:67:THR:CB	4:AE:155:LEU:HD21	2.32	0.60
5:AF:40:ARG:O	5:AF:43:LEU:HB3	2.01	0.60
6:AG:19:LEU:C	6:AG:21:LEU:N	2.48	0.60
7:AH:9:LYS:HG2	7:AH:112:LEU:CD2	2.31	0.60
8:AI:10:LEU:N	8:AI:10:LEU:HD23	2.16	0.60
8:AI:78:GLU:HA	8:AI:81:ILE:CD1	2.30	0.60
9:AJ:78:ARG:O	9:AJ:84:ASN:CA	2.40	0.60
10:AK:102:ARG:O	10:AK:103:VAL:O	2.20	0.60
1:AA:643:C:O2'	10:AK:132:GLU:CD	2.40	0.60
11:AL:23:ASN:O	11:AL:59:PHE:N	2.34	0.60
11:AL:54:ASP:O	11:AL:55:ALA:HB2	2.00	0.60
14:AO:24:VAL:HG13	14:AO:98:TYR:CE2	2.36	0.60
15:AP:66:LEU:C	15:AP:70:LEU:HB2	2.21	0.60
21:AV:51:VAL:O	21:AV:58:VAL:HG22	2.01	0.60
1:AA:1314:C:OP2	21:AV:6:LYS:HG2	2.01	0.60
48:B1:4:GLN:HA	48:B1:7:GLU:CD	2.21	0.60
24:BA:1809:A:H61	50:B3:3:GLU:HG3	1.67	0.60
50:B3:58:ARG:N	50:B3:61:ARG:NH1	2.38	0.60
50:B3:64:GLY:O	50:B3:68:ARG:NH1	2.35	0.60
51:B4:18:ALA:O	51:B4:21:SER:OG	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1203:G:C4	24:BA:1241:A:N7	2.69	0.60
24:BA:1242:A:N3	24:BA:1242:A:H2'	2.16	0.60
24:BA:1317:A:C5	24:BA:1318:C:C5	2.89	0.60
24:BA:1444(A):A:H2'	24:BA:1460:A:O2'	2.01	0.60
24:BA:1624:G:N1	24:BA:1625:C:N4	2.48	0.60
24:BA:1657:C:O2'	24:BA:1658:C:H5'	2.00	0.60
24:BA:1682:G:C4	24:BA:1757:U:H1'	2.37	0.60
24:BA:1801:G:H2'	27:BD:263:ARG:NH2	2.17	0.60
24:BA:1804:C:H5''	27:BD:250:TRP:HH2	1.67	0.60
24:BA:1944:U:H2'	24:BA:1945:G:OP1	2.01	0.60
24:BA:1900:A:C2	24:BA:1970:A:C6	2.89	0.60
24:BA:231:C:N4	24:BA:232:G:C2	2.68	0.60
24:BA:2573:C:P	24:BA:2574:G:OP1	2.60	0.60
24:BA:2603:G:H2'	24:BA:2604:U:O5'	2.00	0.60
24:BA:263:C:C2'	24:BA:263:C:O2	2.43	0.60
24:BA:262:A:C2'	24:BA:263:C:O5'	2.48	0.60
24:BA:270(A):A:C6	24:BA:270(X):G:N3	2.69	0.60
24:BA:270(M):U:H1'	24:BA:270(N):G:O2'	2.01	0.60
24:BA:2745:C:H2'	24:BA:2746:U:C6	2.36	0.60
24:BA:2781:A:H2'	24:BA:2782:G:C2'	2.31	0.60
24:BA:457:A:O4'	24:BA:459:U:C2	2.54	0.60
24:BA:510:C:OP1	24:BA:512:G:N1	2.27	0.60
24:BA:550:G:H2'	24:BA:1220:A:C2	2.37	0.60
24:BA:564:C:H2'	24:BA:565:C:O4'	2.01	0.60
24:BA:575:A:C2'	24:BA:576:U:H5'	2.30	0.60
24:BA:656:G:H2'	24:BA:657:U:H6	1.66	0.60
24:BA:69:C:O2'	24:BA:73:A:H4'	2.00	0.60
24:BA:77:C:C6	24:BA:77:C:OP2	2.54	0.60
24:BA:92:G:H2'	24:BA:93:C:H6	1.65	0.60
24:BA:962:G:H21	24:BA:2250:G:H22	1.47	0.60
27:BD:58:HIS:O	27:BD:59:LYS:NZ	2.29	0.60
27:BD:63:ARG:CD	27:BD:85:ASP:HB3	2.31	0.60
29:BF:176:LEU:C	29:BF:178:PRO:HD2	2.21	0.60
29:BF:7:TYR:O	29:BF:18:ARG:HG2	2.02	0.60
30:BG:118:ARG:HH21	30:BG:120:LEU:HD11	1.65	0.60
30:BG:55:LYS:HB3	30:BG:151:ALA:CB	2.29	0.60
34:BM:106:MET:O	34:BM:108:PRO:HD3	2.01	0.60
34:BM:36:GLY:O	34:BM:47:ALA:CB	2.31	0.60
34:BM:74:ARG:NH1	34:BM:74:ARG:HG2	2.14	0.60
35:BN:40:VAL:O	35:BN:41:ALA:HB2	1.99	0.60
35:BN:66:LYS:O	35:BN:67:LYS:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:626:U:O2	36:BO:101:VAL:HG12	2.00	0.60
36:BO:72:PRO:HB2	36:BO:111:ARG:CB	2.31	0.60
36:BO:112:LEU:N	36:BO:128:HIS:CE1	2.61	0.60
37:BP:67:ARG:HG3	37:BP:68:ILE:N	2.16	0.60
37:BP:6:ARG:HG3	37:BP:93:TYR:HB2	1.84	0.60
38:BQ:20:LEU:C	38:BQ:20:LEU:CD1	2.65	0.60
38:BQ:77:ARG:O	38:BQ:78:LYS:C	2.39	0.60
40:BS:111:ARG:CZ	40:BS:111:ARG:HB2	2.31	0.60
41:BT:55:ARG:HA	41:BT:58:ARG:HG2	1.81	0.60
41:BT:61:TRP:CZ3	41:BT:93:LYS:C	2.74	0.60
41:BT:67:ALA:HB1	41:BT:71:GLN:NE2	2.13	0.60
42:BU:69:LYS:CG	42:BU:70:ILE:N	2.64	0.60
43:BV:5:ALA:HB3	43:BV:105:VAL:CG1	2.32	0.60
43:BV:82:LEU:HD12	43:BV:84:ARG:CG	2.15	0.60
44:BW:15:GLU:HG3	44:BW:16:LYS:N	2.14	0.60
44:BW:66:LEU:HG	44:BW:70:LEU:HA	1.82	0.60
45:BX:86:ARG:O	45:BX:87:LYS:HB2	1.99	0.60
46:BY:120:ILE:HA	46:BY:172:ALA:HB2	1.83	0.60
46:BY:122:ARG:HD3	46:BY:122:ARG:N	2.14	0.60
46:BY:151:HIS:ND1	46:BY:151:HIS:N	2.49	0.60
46:BY:4:ARG:C	46:BY:5:LEU:HD23	2.21	0.60
46:BY:96:VAL:HG13	46:BY:128:VAL:HG22	1.82	0.60
47:BZ:74:ARG:HD3	47:BZ:75:LEU:N	2.16	0.60
24:BA:2111:C:C4	24:BA:2145:C:C4	2.89	0.60
24:BA:2126:A:H1'	24:BA:2162:G:H21	1.65	0.60
24:BA:2178:C:H5'	26:BC:46:LYS:CG	2.24	0.60
26:BC:113:VAL:CG1	26:BC:136:LEU:O	2.48	0.60
26:BC:190:ARG:HA	26:BC:193:ILE:CG1	2.32	0.60
32:BK:59:ALA:N	32:BK:62:LYS:HZ2	1.98	0.60
1:AA:1023:G:H2'	1:AA:1024:G:H5'	1.83	0.60
24:BA:1117:G:H2'	24:BA:1118:C:C6	2.36	0.60
1:AA:1129:C:H1'	1:AA:1130:A:N7	2.17	0.60
1:AA:474:G:O2'	1:AA:475:G:H5'	2.01	0.60
1:AA:490:G:H2'	1:AA:491:G:C8	2.36	0.60
1:AA:609:A:H2'	1:AA:610:G:O4'	2.01	0.60
1:AA:721:G:H1'	1:AA:722:A:C6	2.36	0.60
1:AA:739:C:H2'	1:AA:740:U:H5'	1.84	0.60
1:AA:815:A:C2	1:AA:1527:C:O2	2.52	0.60
2:AC:17:C:H6	2:AC:19:G:OP2	1.84	0.60
2:AC:74:C:H2'	2:AC:75:C:C5'	2.23	0.60
4:AE:102:LEU:CD2	4:AE:176:GLU:HB2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:239:VAL:O	4:AE:240:GLN:HB2	2.00	0.60
5:AF:12:LEU:HD22	16:AQ:57:ARG:HD2	1.82	0.60
8:AI:33:TYR:HB2	8:AI:75:LEU:CD1	2.31	0.60
9:AJ:96:GLN:O	9:AJ:100:ALA:HB2	2.02	0.60
9:AJ:146:GLU:O	9:AJ:147:ALA:C	2.39	0.60
10:AK:26:VAL:HA	10:AK:58:TYR:OH	2.00	0.60
11:AL:113:LYS:NZ	11:AL:119:ALA:CA	2.62	0.60
12:AM:39:PRO:CA	12:AM:70:ARG:NH1	2.65	0.60
1:AA:129(A):G:HO2'	19:AT:63:ARG:HH21	1.48	0.60
19:AT:92:ARG:O	19:AT:95:TYR:CB	2.49	0.60
1:AA:836:G:P	20:AU:61:LYS:NZ	2.73	0.60
1:AA:1305:G:C5'	23:AX:4:GLY:C	2.70	0.60
49:B2:50:VAL:CG1	49:B2:53:LEU:HB2	2.32	0.60
24:BA:372:G:H1'	50:B3:63:TYR:CD1	2.36	0.60
50:B3:9:LEU:HD13	50:B3:11:PRO:HG2	1.83	0.60
24:BA:1142(A):A:C6	24:BA:1143:A:C8	2.90	0.60
24:BA:1265:A:OP2	24:BA:2615:U:P	2.59	0.60
24:BA:1344:G:H2'	24:BA:1345:C:OP1	2.01	0.60
24:BA:1352:U:H2'	24:BA:1352:U:O2	2.00	0.60
24:BA:1444(A):A:H5''	24:BA:1445:C:OP1	2.01	0.60
24:BA:1670:C:O2'	24:BA:1671:U:H5'	2.01	0.60
24:BA:1857:G:N7	24:BA:1858:G:O6	2.33	0.60
24:BA:204:A:C8	24:BA:204:A:OP1	2.54	0.60
24:BA:2213:U:H5''	24:BA:2213:U:C2	2.37	0.60
24:BA:2274:A:N7	24:BA:2276:G:C8	2.70	0.60
24:BA:2358:G:C8	24:BA:2358:G:OP1	2.54	0.60
24:BA:2327:A:C5	24:BA:2388:A:N1	2.70	0.60
24:BA:2399:G:N2	24:BA:2400:G:H1'	2.15	0.60
24:BA:2450:A:O2'	24:BA:2451:A:H5'	2.00	0.60
24:BA:2578:G:N2	24:BA:2579:C:C2	2.69	0.60
24:BA:2786:U:O2	28:BE:61:ARG:CG	2.47	0.60
24:BA:2839:G:H2'	24:BA:2840:C:C6	2.36	0.60
24:BA:308:G:N1	24:BA:309:G:C4	2.70	0.60
24:BA:372:G:O4'	24:BA:372:G:N3	2.34	0.60
24:BA:501:A:O5'	24:BA:501:A:C8	2.55	0.60
24:BA:605:C:O2'	24:BA:606:U:H5'	2.01	0.60
24:BA:616:A:O2'	24:BA:617:G:H1'	2.01	0.60
24:BA:658:C:H2'	24:BA:659:C:C5	2.35	0.60
24:BA:729:G:O5'	27:BD:19:ALA:HB2	2.01	0.60
24:BA:870:A:H5'	24:BA:871:U:OP2	2.01	0.60
24:BA:914:C:C3'	24:BA:914:C:C6	2.79	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:987:G:C5	24:BA:988:A:N7	2.69	0.60
27:BD:151:LYS:CB	27:BD:154:LYS:HZ3	2.11	0.60
27:BD:183:ARG:HA	27:BD:268:ARG:CA	2.31	0.60
27:BD:57:GLY:C	27:BD:58:HIS:ND1	2.55	0.60
27:BD:5:LYS:O	27:BD:29:PRO:HD3	2.02	0.60
28:BE:107:THR:O	28:BE:190:GLY:HA3	2.01	0.60
28:BE:25:VAL:O	28:BE:181:LEU:HD23	2.01	0.60
28:BE:30:PRO:HD2	28:BE:90:THR:O	2.02	0.60
29:BF:126:VAL:HB	29:BF:197:ASP:HB2	1.83	0.60
29:BF:52:LYS:C	29:BF:53:THR:HG23	2.21	0.60
15:AP:3:ARG:HH22	30:BG:113:ARG:CZ	2.14	0.60
30:BG:114:ILE:HD12	30:BG:115:ARG:N	2.15	0.60
30:BG:139:LEU:HD22	30:BG:142:PRO:HA	1.84	0.60
30:BG:55:LYS:HE2	30:BG:147:ASP:O	2.01	0.60
32:BK:7:GLU:HG3	32:BK:14:ASP:OD2	2.00	0.60
34:BM:42:TRP:C	34:BM:43:THR:OG1	2.40	0.60
34:BM:86:PRO:HD2	34:BM:89:LYS:HE2	1.84	0.60
34:BM:66:LYS:HA	34:BM:87:LEU:CD1	2.29	0.60
35:BN:112:MET:O	35:BN:113:LYS:C	2.39	0.60
36:BO:127:ALA:O	36:BO:147:LEU:CD2	2.49	0.60
37:BP:64:ILE:HG23	37:BP:107:ALA:HB2	1.83	0.60
37:BP:6:ARG:NH2	37:BP:9:TYR:H	1.99	0.60
38:BQ:96:ARG:O	38:BQ:114:VAL:HA	2.01	0.60
38:BQ:116:LEU:N	38:BQ:116:LEU:HD12	2.17	0.60
38:BQ:73:VAL:HG23	38:BQ:74:LYS:HZ2	1.64	0.60
39:BR:105:ALA:O	39:BR:106:ARG:C	2.39	0.60
39:BR:62:LYS:HB3	39:BR:65:VAL:CB	2.30	0.60
39:BR:93:LYS:HE2	39:BR:95:HIS:HB3	1.82	0.60
40:BS:62:THR:HG22	40:BS:78:LEU:C	2.22	0.60
45:BX:14:LEU:CD2	45:BX:20:TYR:H	2.12	0.60
45:BX:35:TYR:CE1	45:BX:65:ALA:O	2.54	0.60
46:BY:104:PHE:H	46:BY:104:PHE:HD2	1.46	0.60
46:BY:60:GLU:OE1	46:BY:60:GLU:O	2.19	0.60
46:BY:24:LEU:HD13	46:BY:83:PRO:HG2	1.83	0.60
32:BK:95:LYS:O	32:BK:98:ALA:N	2.33	0.60
26:BC:73:ARG:O	26:BC:112:ALA:HB3	2.02	0.60
26:BC:142:ALA:HB3	26:BC:144:THR:OG1	2.02	0.60
26:BC:60:GLY:O	26:BC:162:GLU:HG3	2.00	0.60
1:AA:1026:G:H1	1:AA:1036:G:N2	1.99	0.60
32:BK:105:HIS:CD2	32:BK:105:HIS:O	2.53	0.60
24:BA:2671:A:OP1	28:BE:206:LYS:CE	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1137:C:H5'	1:AA:1138:G:N1	2.17	0.60
1:AA:1160:G:N7	1:AA:1181:G:N2	2.49	0.60
1:AA:1265:G:C2'	1:AA:1266:G:H5'	2.28	0.60
1:AA:1330:U:C5	1:AA:1331:G:N7	2.69	0.60
1:AA:1351:U:C2	1:AA:1352:C:C5	2.89	0.60
1:AA:1516:G:N2	1:AA:1518:A:P	2.74	0.60
1:AA:31:G:N2	1:AA:47:C:H5''	2.16	0.60
1:AA:363:A:OP2	14:AO:34:ARG:NE	2.33	0.60
1:AA:503:C:OP2	14:AO:116:SER:OG	2.02	0.60
1:AA:56:U:H2'	1:AA:57:G:C8	2.37	0.60
1:AA:608:A:C2	1:AA:609:A:C8	2.90	0.60
1:AA:667:G:N2	1:AA:740:U:C1'	2.60	0.60
1:AA:934:C:N4	1:AA:939:G:N1	2.49	0.60
1:AA:962:C:C4	1:AA:963:G:N7	2.68	0.60
4:AE:184:VAL:O	4:AE:198:ASP:CB	2.45	0.60
4:AE:162:ILE:O	4:AE:185:ILE:HG12	2.01	0.60
4:AE:61:LEU:HA	4:AE:64:ARG:CZ	2.31	0.60
4:AE:69:LEU:HD22	4:AE:91:PRO:O	2.01	0.60
5:AF:67:THR:CG2	5:AF:104:GLN:HG2	2.30	0.60
6:AG:115:ARG:O	6:AG:116:GLN:C	2.39	0.60
6:AG:177:ASP:CG	6:AG:182:LYS:HG3	2.22	0.60
6:AG:43:HIS:HB3	6:AG:46:LYS:HG3	1.82	0.60
6:AG:74:GLN:CA	6:AG:77:ASN:HD22	2.14	0.60
7:AH:100:VAL:C	7:AH:101:ILE:HD13	2.22	0.60
7:AH:37:ARG:NH1	7:AH:112:LEU:HD22	2.16	0.60
8:AI:67:MET:SD	8:AI:67:MET:O	2.59	0.60
10:AK:104:ARG:HG2	10:AK:104:ARG:NH1	2.16	0.60
10:AK:30:ARG:O	10:AK:33:GLU:CB	2.50	0.60
10:AK:9:MET:SD	10:AK:32:LYS:HG3	2.40	0.60
12:AM:20:ALA:O	12:AM:24:VAL:HG23	2.01	0.60
13:AN:20:TYR:CE2	13:AN:83:ILE:HG12	2.36	0.60
15:AP:25:ILE:HA	15:AP:29:ARG:CG	2.28	0.60
1:AA:267:C:P	19:AT:67:LYS:HD3	2.41	0.60
22:AW:53:LEU:O	22:AW:56:MET:HB3	2.01	0.60
49:B2:23:LEU:CA	49:B2:28:LEU:HD12	2.31	0.60
49:B2:7:LYS:NZ	49:B2:33:GLN:H	1.97	0.60
52:B5:19:ARG:O	52:B5:19:ARG:NH1	2.31	0.60
54:B7:30:ARG:CZ	54:B7:44:LYS:CB	2.74	0.60
55:B8:16:VAL:CG1	55:B8:16:VAL:O	2.45	0.60
24:BA:1047:G:H2'	24:BA:1110:G:H1	1.67	0.60
24:BA:1051:G:H4'	24:BA:2752:C:Cl'	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1058:G:N3	33:BL:116:ASN:ND2	2.49	0.60
24:BA:1059:G:H1'	33:BL:126:MET:HE2	1.83	0.60
24:BA:1059:G:H5'	24:BA:1059:G:H8	1.67	0.60
24:BA:1076:C:N4	24:BA:1077:A:N7	2.48	0.60
24:BA:1164:G:C5	24:BA:1165:U:C5	2.89	0.60
24:BA:1178:C:H2'	24:BA:1179:C:C5	2.36	0.60
24:BA:1182:A:C3'	24:BA:1183:G:H3'	2.31	0.60
24:BA:1343:G:H2'	24:BA:1344:G:H5''	1.83	0.60
24:BA:1378:A:H2'	24:BA:1380:G:N7	2.15	0.60
24:BA:1448:G:H2'	24:BA:1449:A:C8	2.36	0.60
24:BA:1592:C:O2'	24:BA:1593:G:H5'	2.01	0.60
24:BA:14:A:C8	24:BA:15:G:O4'	2.54	0.60
24:BA:1613:G:H3'	24:BA:1617:C:N4	2.16	0.60
24:BA:1834:U:H4'	24:BA:1834:U:OP1	2.01	0.60
24:BA:2043:C:O2'	24:BA:2044:C:O5'	2.18	0.60
24:BA:2309:A:P	24:BA:2310:A:H62	2.22	0.60
24:BA:2325:G:N3	24:BA:2326:C:C6	2.70	0.60
24:BA:2346:A:H2	24:BA:2383:G:N1	2.00	0.60
24:BA:2360:A:OP2	24:BA:2360:A:C8	2.53	0.60
24:BA:2063:C:C1'	24:BA:2451:A:H2	1.98	0.60
24:BA:292:C:H6	24:BA:293:U:O4	1.81	0.60
24:BA:371:A:N7	24:BA:424:G:O5'	2.34	0.60
24:BA:479:A:C1'	24:BA:480:A:C8	2.83	0.60
24:BA:511:U:O4	24:BA:512:G:H1'	2.00	0.60
24:BA:522:G:H2'	24:BA:523:C:H6	1.67	0.60
24:BA:840:C:H4'	24:BA:1192:G:O2'	2.00	0.60
24:BA:895:U:O2	24:BA:896:A:N6	2.35	0.60
25:BB:38:C:C6	25:BB:38:C:C3'	2.83	0.60
27:BD:105:ILE:HG13	27:BD:106:ILE:HG12	1.84	0.60
27:BD:193:VAL:HG12	27:BD:194:GLY:N	2.16	0.60
28:BE:118:LYS:O	28:BE:120:TRP:O	2.19	0.60
24:BA:2572:A:C2	28:BE:144:ARG:CZ	2.85	0.60
30:BG:134:GLY:O	30:BG:135:LEU:O	2.19	0.60
31:BH:10:PRO:O	31:BH:12:PRO:HD2	2.02	0.60
31:BH:20:ALA:CB	31:BH:21:PRO:CD	2.79	0.60
31:BH:61:HIS:O	31:BH:64:LEU:HB2	2.02	0.60
31:BH:89:ILE:HG12	31:BH:94:TYR:CE2	2.36	0.60
32:BK:11:ASN:O	32:BK:13:GLY:N	2.34	0.60
33:BL:27:LEU:HD22	33:BL:32:ALA:CB	2.32	0.60
24:BA:1007:C:O3'	34:BM:108:PRO:HG3	2.01	0.60
35:BN:79:PHE:CZ	40:BS:103:ARG:HD2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:28:LEU:HD21	38:BQ:32:GLY:O	2.01	0.60
38:BQ:73:VAL:HG23	38:BQ:74:LYS:N	2.14	0.60
38:BQ:73:VAL:HG23	38:BQ:74:LYS:NZ	2.16	0.60
25:BB:114:G:C4'	39:BR:47:THR:HB	2.31	0.60
39:BR:40:ILE:CG1	39:BR:47:THR:HG23	2.31	0.60
40:BS:50:ILE:C	40:BS:66:VAL:HG12	2.22	0.60
40:BS:90:GLN:OE1	40:BS:91:ARG:N	2.35	0.60
41:BT:110:VAL:HG12	41:BT:114:LYS:CE	2.31	0.60
43:BV:59:VAL:HG13	43:BV:63:ASP:CB	2.31	0.60
44:BW:17:ALA:HB1	44:BW:27:THR:OG1	2.00	0.60
45:BX:97:ARG:O	45:BX:98:VAL:HG23	2.01	0.60
46:BY:102:LEU:HB2	46:BY:124:ILE:HA	1.83	0.60
46:BY:29:TYR:HD2	46:BY:89:PHE:HE2	1.47	0.60
3:AD:9:A:C2	3:AD:46:G:H1'	2.36	0.60
26:BC:165:ASN:HA	26:BC:170:ALA:O	2.02	0.60
26:BC:192:PHE:HE1	26:BC:196:LEU:CD2	2.15	0.60
26:BC:42:GLU:O	26:BC:215:THR:O	2.19	0.60
26:BC:81:GLU:CG	26:BC:82:LYS:N	2.64	0.60
24:BA:2185:C:H2'	24:BA:2186:G:C8	2.25	0.60
24:BA:2246:G:N2	24:BA:2247:A:C6	2.68	0.60
27:BD:112:GLN:N	27:BD:115:GLN:HE21	1.99	0.60
4:AE:125:PRO:O	4:AE:127:ILE:HG13	2.01	0.60
1:AA:1094:G:H3'	1:AA:1108:G:H22	1.65	0.60
1:AA:1152:A:C2	1:AA:1153:C:C2	2.89	0.60
1:AA:122:G:OP1	1:AA:122:G:C8	2.54	0.60
1:AA:1298:C:H4'	1:AA:1299:A:C2	2.36	0.60
1:AA:258:G:C6	1:AA:259:G:O6	2.55	0.60
1:AA:270:A:O2'	1:AA:271:C:H5'	2.00	0.60
1:AA:453:A:C6	1:AA:454:C:N4	2.70	0.60
1:AA:764:C:C3'	1:AA:765:G:H8	2.14	0.60
1:AA:819:A:H4'	1:AA:820:U:OP2	1.97	0.60
3:AD:28:G:H2'	3:AD:29:C:H6	1.66	0.60
4:AE:114:ARG:HG3	4:AE:115:LEU:N	2.15	0.60
5:AF:112:SER:CB	5:AF:115:LEU:HD12	2.32	0.60
5:AF:193:TYR:HD2	5:AF:193:TYR:N	1.98	0.60
6:AG:121:VAL:HG11	6:AG:136:PRO:HA	1.83	0.60
8:AI:21:LEU:O	8:AI:25:ILE:HG13	2.01	0.60
9:AJ:105:VAL:O	9:AJ:109:ASN:ND2	2.34	0.60
9:AJ:155:ARG:HD3	9:AJ:156:TRP:N	2.16	0.60
10:AK:65:TYR:HE2	10:AK:78:GLN:OE1	1.83	0.60
11:AL:10:ARG:C	11:AL:104:ARG:HH21	2.05	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:20:ALA:HB1	12:AM:37:PRO:HB3	1.83	0.60
12:AM:56:HIS:C	12:AM:58:ASP:H	2.04	0.60
1:AA:33:A:N3	14:AO:32:PHE:HZ	2.00	0.60
14:AO:33:ARG:O	14:AO:85:ILE:HG22	2.02	0.60
14:AO:54:LYS:CB	14:AO:70:ILE:HB	2.32	0.60
17:AR:39:LEU:HD23	17:AR:40:SER:H	1.62	0.60
17:AR:71:GLN:O	17:AR:75:PRO:CD	2.46	0.60
20:AU:76:LEU:N	20:AU:76:LEU:CD2	2.64	0.60
20:AU:80:PRO:O	20:AU:81:PHE:C	2.38	0.60
22:AW:57:ARG:HH22	22:AW:102:GLY:HA3	1.67	0.60
50:B3:56:VAL:C	50:B3:61:ARG:NH2	2.54	0.60
52:B5:19:ARG:CG	52:B5:43:CYS:SG	2.87	0.60
24:BA:1004:C:O4'	24:BA:1010:A:C2	2.54	0.60
24:BA:1035:U:H2'	24:BA:1036:G:C8	2.37	0.60
24:BA:1176:G:H3'	24:BA:1177:A:H8	1.65	0.60
24:BA:141(A):C:C2'	24:BA:142:G:H5'	2.32	0.60
24:BA:1518:C:H3'	24:BA:1519:G:C5'	2.29	0.60
24:BA:1537:C:H3'	24:BA:1537:C:H6	1.63	0.60
24:BA:1549:C:O2'	24:BA:1550:C:H5'	2.02	0.60
24:BA:1630:G:C8	24:BA:1630(A):C:H5	2.18	0.60
24:BA:1642:G:O2'	24:BA:1643:G:H5'	2.01	0.60
24:BA:1935:G:C4	24:BA:1962:C:C4	2.90	0.60
24:BA:1935:G:O2'	24:BA:1937:A:C2	2.55	0.60
24:BA:197:A:O4'	24:BA:2068:U:C2	2.55	0.60
24:BA:226:G:O2'	24:BA:228:A:C2	2.54	0.60
24:BA:2628:C:O2	24:BA:2782:G:OP1	2.20	0.60
24:BA:2813:A:H2'	24:BA:2814:C:C6	2.36	0.60
24:BA:296:C:O2'	24:BA:297:C:H5'	2.01	0.60
24:BA:355:G:H2'	24:BA:356:G:N9	2.16	0.60
24:BA:379:G:C2	24:BA:396:G:C4	2.90	0.60
24:BA:397:G:OP1	50:B3:41:PRO:HG3	2.02	0.60
24:BA:511:U:C5	24:BA:512:G:C4	2.90	0.60
24:BA:54:G:H4'	53:B6:36:GLN:NE2	2.16	0.60
24:BA:749:C:C5	24:BA:750:A:N7	2.70	0.60
24:BA:690:G:O2'	24:BA:780:G:OP1	2.19	0.60
24:BA:783:A:C3'	24:BA:783:A:C8	2.85	0.60
24:BA:850:C:H5''	49:B2:18:ASP:HB2	1.84	0.60
25:BB:28:C:H2'	25:BB:29:A:C8	2.37	0.60
24:BA:1567:A:H5''	27:BD:59:LYS:CE	2.29	0.60
24:BA:1818:U:O4	27:BD:67:PHE:CE1	2.54	0.60
27:BD:70:TRP:CZ3	27:BD:190:TYR:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2735:G:H4'	28:BE:203:LYS:HE3	1.83	0.60
30:BG:119:GLY:C	30:BG:120:LEU:HD23	2.22	0.60
24:BA:2306:C:O2	30:BG:46:ALA:HB2	2.01	0.60
34:BM:2:LYS:CB	34:BM:2:LYS:NZ	2.64	0.60
35:BN:10:VAL:O	35:BN:11:ALA:CB	2.49	0.60
35:BN:34:THR:O	35:BN:37:ASP:HB2	2.01	0.60
36:BO:117:GLU:CD	36:BO:117:GLU:H	2.05	0.60
36:BO:92:GLU:OE2	36:BO:126:VAL:HG13	2.02	0.60
36:BO:23:PRO:HB3	36:BO:30:THR:H	1.65	0.60
37:BP:22:LYS:HE3	37:BP:23:GLY:C	2.21	0.60
37:BP:26:TYR:N	37:BP:26:TYR:CD1	2.69	0.60
37:BP:54:MET:HB3	37:BP:58:PHE:CE2	2.36	0.60
37:BP:59:ARG:HD2	37:BP:59:ARG:C	2.21	0.60
38:BQ:61:HIS:C	38:BQ:64:ARG:HD2	2.21	0.60
39:BR:14:VAL:C	39:BR:18:ILE:HD13	2.22	0.60
41:BT:111:GLU:HA	41:BT:114:LYS:HD2	1.83	0.60
24:BA:532:A:O2'	41:BT:28:ARG:HD3	2.02	0.60
42:BU:60:GLU:OE1	42:BU:100:ARG:O	2.20	0.60
44:BW:16:LYS:CE	44:BW:16:LYS:H	2.13	0.60
44:BW:23:GLU:C	44:BW:23:GLU:CD	2.60	0.60
44:BW:85:PRO:HB2	44:BW:87:GLN:HE21	1.67	0.60
45:BX:97:ARG:HG2	45:BX:101:LYS:HG2	1.83	0.60
46:BY:122:ARG:HG2	46:BY:171:ILE:CA	2.31	0.60
46:BY:41:LEU:C	46:BY:45:ASP:OD2	2.40	0.60
46:BY:57:ILE:HG12	46:BY:70:LEU:CA	2.31	0.60
46:BY:9:TYR:HB2	46:BY:14:LYS:HG2	1.83	0.60
47:BZ:23:VAL:CA	47:BZ:38:VAL:HG12	2.31	0.60
47:BZ:32:ARG:HG2	47:BZ:64:ASP:OD1	2.01	0.60
47:BZ:82:ARG:HH11	47:BZ:83:PRO:HB2	1.67	0.60
32:BK:66:GLU:O	32:BK:70:LYS:HG3	2.01	0.60
3:AD:18:G:H4'	3:AD:60:U:N3	2.16	0.60
24:BA:2135:A:N7	24:BA:2160:G:C1'	2.58	0.60
26:BC:8:ARG:HE	26:BC:12:GLU:HG2	1.66	0.60
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.35	0.60
24:BA:2187:G:H2'	24:BA:2188:C:C6	2.37	0.60
32:BK:19:VAL:HG12	32:BK:20:ASP:N	2.15	0.60
1:AA:104:G:C2	1:AA:105:G:C8	2.89	0.60
1:AA:1092:A:N6	1:AA:1093:A:N1	2.49	0.60
1:AA:1138:G:C6	1:AA:1140:C:C6	2.89	0.60
1:AA:1157:A:O4'	1:AA:1158:C:C4	2.55	0.60
1:AA:115:G:O2'	1:AA:116:A:OP2	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1213:A:C6	1:AA:1215:G:C2	2.89	0.60
1:AA:1301:U:C4	1:AA:1303:C:C2	2.89	0.60
1:AA:1347:G:OP2	11:AL:107:ARG:HD2	2.02	0.60
1:AA:183:G:N3	1:AA:223:U:O2'	2.35	0.60
1:AA:195:A:P	22:AW:68:LYS:HZ1	2.24	0.60
1:AA:284:G:O2'	1:AA:285:G:H5'	2.01	0.60
1:AA:112:G:C4'	1:AA:389:A:H5''	2.32	0.60
1:AA:38:G:H1'	1:AA:397:A:N6	2.17	0.60
1:AA:606:G:N2	1:AA:631:G:N3	2.50	0.60
1:AA:68:G:H2'	1:AA:69:G:O4'	2.02	0.60
1:AA:731:G:O2'	1:AA:732:C:H5'	2.01	0.60
1:AA:885:G:C2	1:AA:886:G:N7	2.70	0.60
1:AA:924:C:H2'	1:AA:925:G:C8	2.37	0.60
1:AA:1074:G:C5'	4:AE:104:ASN:HB2	2.32	0.60
4:AE:165:VAL:O	4:AE:187:LEU:O	2.19	0.60
4:AE:15:VAL:HG21	4:AE:209:ARG:HD2	1.83	0.60
5:AF:152:ILE:HG22	5:AF:167:TRP:HA	1.84	0.60
5:AF:38:ARG:HB2	5:AF:94:LEU:CD1	2.32	0.60
5:AF:39:ILE:O	5:AF:43:LEU:HB2	2.01	0.60
6:AG:79:PHE:HB2	6:AG:93:PHE:CE1	2.36	0.60
6:AG:78:LEU:HD21	6:AG:96:LEU:HD22	1.84	0.60
8:AI:26:ILE:C	8:AI:30:LEU:HD12	2.22	0.60
9:AJ:85:TYR:CD1	9:AJ:154:TYR:CE1	2.90	0.60
9:AJ:88:PRO:HD2	9:AJ:152:ALA:CA	2.31	0.60
10:AK:126:LYS:NZ	10:AK:127:LEU:CB	2.64	0.60
11:AL:16:ARG:HD3	11:AL:64:THR:OG1	2.02	0.60
11:AL:9:ARG:HG2	11:AL:14:VAL:HA	1.83	0.60
13:AN:32:ILE:O	13:AN:40:ILE:CD1	2.49	0.60
13:AN:29:ILE:HG22	13:AN:44:SER:OG	2.02	0.60
13:AN:51:LYS:HE2	13:AN:52:GLY:H	1.66	0.60
13:AN:78:GLN:OE1	13:AN:79:SER:N	2.35	0.60
15:AP:20:THR:HA	15:AP:25:ILE:HG22	1.83	0.60
1:AA:974:A:C1'	16:AQ:31:ARG:HH21	2.08	0.60
19:AT:22:LEU:HD12	19:AT:40:LYS:O	2.02	0.60
19:AT:46:ASP:OD1	19:AT:50:LYS:N	2.35	0.60
50:B3:68:ARG:CD	50:B3:68:ARG:H	2.08	0.60
24:BA:2615:U:O4'	51:B4:7:PRO:HG3	2.01	0.60
24:BA:1049:C:C2	24:BA:1050:A:N7	2.70	0.60
24:BA:1197:G:C5	24:BA:1198:U:C5	2.90	0.60
24:BA:1250:G:OP1	24:BA:1251:C:O2	2.19	0.60
24:BA:1515:C:H5''	24:BA:1515:C:H6	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1341:U:OP1	24:BA:1602:U:H1'	2.02	0.60
24:BA:1631:A:N1	24:BA:1632:A:C2	2.70	0.60
24:BA:1673:U:H2'	24:BA:1673:U:O2	2.00	0.60
24:BA:1689:A:C2	24:BA:1690:A:N7	2.69	0.60
24:BA:1709:U:C1'	24:BA:2860:A:H1'	2.32	0.60
24:BA:1769:G:H2'	24:BA:1770:G:C8	2.36	0.60
24:BA:1779:U:H3'	24:BA:1779:U:C6	2.37	0.60
24:BA:1827:C:O2	24:BA:1828:G:H1'	2.01	0.60
1:AA:1483:A:H2	24:BA:1960:A:H1'	1.67	0.60
24:BA:2216:G:C2'	24:BA:2217:G:H5'	2.30	0.60
24:BA:2287:A:C2'	24:BA:2288:A:O5'	2.49	0.60
24:BA:2331:G:C2'	24:BA:2332:U:O4'	2.44	0.60
24:BA:270(A):A:N6	24:BA:270(X):G:N3	2.50	0.60
24:BA:2725:A:C2'	24:BA:2726:U:H3'	2.32	0.60
24:BA:285:C:H2'	24:BA:286:C:H6	1.66	0.60
24:BA:2870:C:H2'	24:BA:2871:C:O4'	2.02	0.60
24:BA:388:G:O2'	24:BA:390:A:N7	2.35	0.60
24:BA:449:A:C2'	24:BA:450:G:H5'	2.32	0.60
24:BA:625:G:H2'	24:BA:625:G:N3	2.16	0.60
24:BA:823:G:C6	24:BA:824:A:N6	2.70	0.60
24:BA:909:A:C5'	24:BA:909:A:H8	2.14	0.60
27:BD:24:ILE:O	27:BD:25:THR:CG2	2.48	0.60
24:BA:1843:C:H5''	27:BD:255:LYS:HE3	1.82	0.60
27:BD:33:LEU:HD22	27:BD:63:ARG:HH21	1.66	0.60
28:BE:119:ARG:HD3	28:BE:156:MET:H	1.66	0.60
28:BE:91:VAL:HG22	28:BE:93:VAL:HG13	1.83	0.60
28:BE:92:THR:H	28:BE:95:ILE:HD13	1.66	0.60
29:BF:148:LEU:HG	29:BF:152:GLU:HG2	1.84	0.60
29:BF:156:LEU:HD21	29:BF:173:VAL:HG23	1.84	0.60
30:BG:135:LEU:CD1	30:BG:136:ARG:H	2.08	0.60
30:BG:19:LEU:HB3	30:BG:22:ARG:HH12	1.67	0.60
30:BG:53:LEU:N	30:BG:53:LEU:HD12	2.16	0.60
30:BG:68:PRO:HB3	30:BG:72:ARG:HH12	1.65	0.60
33:BL:52:ILE:CG2	33:BL:73:PRO:HD2	2.31	0.60
34:BM:33:LEU:CD1	34:BM:34:LEU:HG	2.32	0.60
34:BM:74:ARG:CG	34:BM:76:SER:OG	2.50	0.60
24:BA:1665:A:H1'	35:BN:1:MET:HG2	1.82	0.60
37:BP:102:VAL:CG1	37:BP:104:PHE:CE1	2.85	0.60
39:BR:35:ILE:O	39:BR:35:ILE:HG23	2.01	0.60
40:BS:113:LYS:O	40:BS:116:ALA:N	2.34	0.60
40:BS:18:ASP:OD2	40:BS:81:PRO:HG3	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:15:VAL:HG21	40:BS:59:THR:HG23	1.82	0.60
42:BU:88:ARG:HH11	42:BU:88:ARG:HB3	1.67	0.60
46:BY:168:GLU:HG2	46:BY:169:GLU:H	1.65	0.60
46:BY:59:LEU:HD11	46:BY:66:SER:OG	2.00	0.60
24:BA:2603:G:OP2	47:BZ:1:MET:O	2.19	0.60
47:BZ:50:ASN:C	47:BZ:62:LEU:HB3	2.22	0.60
32:BK:94:ALA:HA	32:BK:97:ILE:HG13	1.83	0.60
24:BA:2115:G:N3	24:BA:2117:A:N7	2.49	0.60
26:BC:91:ALA:HB2	26:BC:153:ILE:HG21	1.81	0.60
24:BA:1579:A:H2'	24:BA:1580:A:C4'	2.32	0.60
34:BM:139:GLU:O	34:BM:140:VAL:HG23	2.01	0.60
1:AA:1182:G:H4'	1:AA:1183:A:O5'	2.01	0.60
1:AA:1211:U:O2'	1:AA:1213:A:N3	2.35	0.60
1:AA:1321:C:C6	1:AA:1321:C:H3'	2.37	0.60
1:AA:13:U:H6	1:AA:13:U:C5'	2.15	0.60
1:AA:1472:U:O2'	1:AA:1473:A:H5'	2.01	0.60
1:AA:198:G:N2	1:AA:199:G:C4	2.70	0.60
1:AA:265:G:C8	1:AA:267:C:C5	2.89	0.60
1:AA:292:G:C5	1:AA:293:G:H1'	2.36	0.60
1:AA:538:G:OP2	14:AO:115:LYS:HB2	2.02	0.60
1:AA:652:U:O2	1:AA:753:A:N7	2.34	0.60
1:AA:790:A:N6	1:AA:791:G:N1	2.49	0.60
1:AA:926:G:N3	1:AA:1505:G:C2	2.69	0.60
2:AC:19:G:O3'	2:AC:20:U:C5	2.55	0.60
2:AC:44:A:O2'	2:AC:45:G:H5'	2.02	0.60
4:AE:170:GLU:HG3	4:AE:174:VAL:HG23	1.83	0.60
4:AE:226:ARG:HG2	4:AE:227:GLY:N	2.16	0.60
4:AE:78:GLN:O	4:AE:94:ASN:ND2	2.34	0.60
4:AE:91:PRO:CD	4:AE:155:LEU:HD23	2.32	0.60
5:AF:139:GLN:O	5:AF:143:GLU:HG3	2.01	0.60
6:AG:118:ARG:NH2	6:AG:136:PRO:HB2	2.17	0.60
6:AG:42:GLN:O	6:AG:43:HIS:ND1	2.34	0.60
1:AA:1298:C:N4	9:AJ:114:ARG:HB3	2.16	0.60
12:AM:12:ASP:OD1	12:AM:14:LYS:HB2	2.01	0.60
13:AN:84:VAL:HG22	13:AN:109:VAL:O	2.00	0.60
1:AA:474:G:O5'	18:AS:81:ARG:HG3	2.01	0.60
22:AW:50:GLU:HG3	22:AW:100:ILE:HG23	1.84	0.60
48:B1:20:VAL:CG2	48:B1:55:LEU:HD23	2.31	0.60
38:BQ:99:LYS:C	51:B4:44:THR:HG22	2.21	0.60
53:B6:41:ARG:CZ	53:B6:41:ARG:HB2	2.28	0.60
54:B7:4:MET:CE	54:B7:4:MET:HA	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1059:G:H2'	33:BL:74:ALA:CB	2.29	0.60
24:BA:1061:U:C4'	24:BA:1070:A:O2'	2.50	0.60
24:BA:1077:A:OP1	33:BL:93:ARG:HB2	2.00	0.60
24:BA:1143:A:O2'	24:BA:1144:G:O4'	2.20	0.60
24:BA:1144:G:C2'	24:BA:1145:C:C6	2.74	0.60
24:BA:1262:A:O2'	24:BA:1263:U:H5'	2.01	0.60
24:BA:1267:U:H2'	24:BA:1268:A:H5''	1.78	0.60
24:BA:1288:U:C5'	24:BA:1289:C:OP2	2.50	0.60
24:BA:1401:G:C6	24:BA:1402:C:C4	2.90	0.60
24:BA:1453:A:C5	24:BA:1454:U:H1'	2.37	0.60
24:BA:1750:G:N3	24:BA:2860:A:C2	2.69	0.60
24:BA:1790:C:H2'	24:BA:1791:A:C8	2.37	0.60
24:BA:1947:C:N3	24:BA:1948:G:C8	2.70	0.60
24:BA:1977:A:C2'	24:BA:1978:A:O5'	2.50	0.60
24:BA:1769:G:N1	24:BA:1984:G:C5	2.69	0.60
24:BA:2085:C:O2	24:BA:2086:U:O4'	2.20	0.60
24:BA:2331:G:H4'	47:BZ:43:THR:N	2.17	0.60
24:BA:2346:A:C2	24:BA:2383:G:N1	2.69	0.60
24:BA:2457:U:O2'	24:BA:2458:G:H5'	2.02	0.60
24:BA:2447:G:N3	24:BA:2500:U:O4	2.35	0.60
24:BA:2708:G:C1'	38:BQ:71:GLN:HE22	2.11	0.60
24:BA:270(D):C:H2'	24:BA:270(E):G:H8	1.62	0.60
24:BA:270:A:OP2	24:BA:270(Y):G:O2'	2.18	0.60
24:BA:2774:C:C2	24:BA:2775:A:N7	2.70	0.60
24:BA:294:A:N1	24:BA:346:A:N1	2.49	0.60
24:BA:498:G:H3'	24:BA:498:G:C8	2.37	0.60
24:BA:675:A:N6	24:BA:804:A:H1'	2.17	0.60
24:BA:7:G:N2	24:BA:8:A:C4	2.70	0.60
27:BD:134:ARG:HA	27:BD:168:ARG:HH11	1.66	0.60
27:BD:247:ALA:C	27:BD:248:SER:O	2.36	0.60
29:BF:30:PRO:HA	29:BF:33:LEU:CD2	2.26	0.60
29:BF:39:TRP:O	29:BF:42:ALA:HB3	2.02	0.60
29:BF:65:TRP:CG	29:BF:66:PRO:HD2	2.36	0.60
30:BG:113:ARG:NE	30:BG:139:LEU:CD2	2.41	0.60
30:BG:163:ALA:HB3	30:BG:169:ALA:HB2	1.83	0.60
31:BH:38:SER:N	31:BH:41:MET:HE2	2.16	0.60
31:BH:8:PRO:CA	31:BH:51:ARG:CZ	2.79	0.60
31:BH:69:ARG:HG3	31:BH:70:THR:N	2.17	0.60
32:BK:21:VAL:O	32:BK:26:ALA:HB2	2.02	0.60
34:BM:123:TYR:HB2	34:BM:129:PRO:CG	2.31	0.60
34:BM:30:ILE:HG22	34:BM:34:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:25:ASP:HB2	37:BP:101:ARG:CD	2.32	0.60
24:BA:2708:G:C1'	38:BQ:71:GLN:NE2	2.65	0.60
39:BR:24:LEU:HD21	39:BR:39:ILE:CG2	2.31	0.60
39:BR:39:ILE:HD12	39:BR:48:LEU:HD13	1.84	0.60
40:BS:104:ASN:CB	40:BS:108:ARG:NH2	2.64	0.60
40:BS:17:THR:HG21	40:BS:22:PHE:CZ	2.36	0.60
40:BS:73:GLU:C	40:BS:74:ARG:HG3	2.21	0.60
42:BU:27:ALA:HB2	42:BU:35:LEU:CD1	2.31	0.60
42:BU:58:VAL:HG12	42:BU:59:ALA:N	2.17	0.60
42:BU:36:PRO:HB3	42:BU:61:VAL:CG2	2.32	0.60
44:BW:50:LYS:CE	44:BW:87:GLN:HB2	2.30	0.60
24:BA:2356:C:O3'	47:BZ:20:ARG:NH2	2.34	0.60
47:BZ:50:ASN:ND2	47:BZ:81:VAL:O	2.35	0.60
26:BC:81:GLU:OE2	26:BC:82:LYS:HD3	2.01	0.60
26:BC:75:LEU:HD13	26:BC:99:ILE:HG21	1.84	0.60
24:BA:1580:A:H2'	24:BA:1581:G:C1'	2.31	0.60
1:AA:1185:G:C2	1:AA:1186:G:C1'	2.85	0.60
1:AA:1196:U:C5'	1:AA:1197:G:C5'	2.79	0.60
1:AA:1278:U:H5'	1:AA:1279:A:C4'	2.31	0.60
1:AA:1279:A:O2'	1:AA:1282:C:C4	2.54	0.60
1:AA:1251:A:H61	1:AA:1285:A:H2	1.49	0.60
1:AA:1389:C:C2'	1:AA:1390:U:H5'	2.32	0.60
1:AA:296:U:C2	1:AA:297:G:C8	2.90	0.60
1:AA:295:C:O2'	1:AA:296:U:H5'	2.01	0.60
1:AA:508:C:O2'	1:AA:509:A:C8	2.54	0.60
1:AA:60:A:H4'	1:AA:61:G:O5'	2.01	0.60
1:AA:692:U:O2	1:AA:694:A:C8	2.55	0.60
1:AA:707:C:C2'	1:AA:708:C:H5'	2.32	0.60
1:AA:861:G:H2'	1:AA:862:C:H6	1.67	0.60
6:AG:121:VAL:HA	6:AG:126:ILE:CD1	2.32	0.60
6:AG:177:ASP:OD2	6:AG:179:GLU:HB2	2.01	0.60
7:AH:29:GLY:HA2	7:AH:46:GLY:O	2.01	0.60
9:AJ:149:ARG:O	9:AJ:152:ALA:N	2.32	0.60
11:AL:69:GLY:C	11:AL:73:GLN:OE1	2.40	0.60
12:AM:89:ASP:O	12:AM:90:LEU:HG	2.01	0.60
14:AO:27:LEU:HD22	14:AO:61:THR:O	2.01	0.60
14:AO:93:LEU:HB2	14:AO:96:VAL:HG21	1.82	0.60
17:AR:36:ILE:HG22	17:AR:37:ASN:N	2.16	0.60
18:AS:51:VAL:O	18:AS:52:ASP:C	2.39	0.60
20:AU:63:GLN:CA	20:AU:66:LEU:HD21	2.32	0.60
49:B2:4:LEU:HD13	49:B2:37:LEU:CD1	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:50:VAL:HG22	49:B2:53:LEU:CD1	2.30	0.60
51:B4:26:THR:HB	51:B4:27:PRO:HD2	1.84	0.60
52:B5:20:ASN:ND2	52:B5:43:CYS:HB2	2.16	0.60
24:BA:2348:U:H3'	54:B7:42:ARG:HH22	1.67	0.60
55:B8:17:ILE:HD12	55:B8:26:ILE:CD1	2.29	0.60
24:BA:112:U:OP2	24:BA:112:U:C6	2.55	0.60
24:BA:1206:G:C3'	24:BA:1206:G:C8	2.85	0.60
24:BA:1227:A:H8	24:BA:1228:G:C5'	2.04	0.60
24:BA:1327:C:O2	24:BA:1327:C:H2'	2.00	0.60
24:BA:1530:G:C3'	24:BA:1531:C:C6	2.84	0.60
24:BA:179:G:OP1	53:B6:32:LYS:NZ	2.33	0.60
24:BA:1859:A:H3'	24:BA:1860:G:H8	1.67	0.60
24:BA:1972:A:C2'	24:BA:1973:G:H8	2.12	0.60
24:BA:579:G:H1'	24:BA:2017:U:N3	2.16	0.60
24:BA:2048:G:C2	24:BA:2049:G:C4	2.90	0.60
24:BA:2353:G:O2'	47:BZ:35:ASN:ND2	2.35	0.60
24:BA:2457:U:O4	24:BA:2458:G:N2	2.35	0.60
24:BA:2459:A:H3'	24:BA:2460:U:O4'	2.02	0.60
24:BA:2666:C:H5	24:BA:2667:C:O2	1.85	0.60
24:BA:2043:C:N4	24:BA:2777:G:N3	2.50	0.60
24:BA:280:C:C4	24:BA:283:A:N7	2.69	0.60
24:BA:548:A:H61	24:BA:549:G:H21	1.48	0.60
24:BA:581:C:H2'	24:BA:582:G:C8	2.37	0.60
24:BA:610:C:H2'	24:BA:611:C:C6	2.36	0.60
24:BA:685:A:C2'	24:BA:686:G:OP2	2.50	0.60
24:BA:724:U:C2'	24:BA:725:G:H5'	2.32	0.60
24:BA:725:G:C2	24:BA:726:G:C2	2.89	0.60
25:BB:82:G:C2	25:BB:83:G:N7	2.70	0.60
27:BD:234:GLY:N	27:BD:241:PRO:CG	2.60	0.60
27:BD:6:PHE:O	27:BD:27:THR:HG23	2.01	0.60
29:BF:36:VAL:HG11	29:BF:183:VAL:CG1	2.32	0.60
30:BG:87:PRO:O	30:BG:88:ILE:HG13	2.01	0.60
33:BL:111:LYS:O	33:BL:113:PRO:HD2	2.01	0.60
33:BL:68:VAL:CG1	33:BL:70:LYS:HE3	2.32	0.60
34:BM:127:ASP:O	34:BM:130:HIS:N	2.35	0.60
24:BA:623:G:N7	36:BO:105:LEU:HD13	2.16	0.60
24:BA:627:A:C5'	36:BO:75:ILE:HB	2.26	0.60
37:BP:96:VAL:HG12	37:BP:98:LYS:HZ3	1.63	0.60
39:BR:62:LYS:C	39:BR:64:GLU:N	2.48	0.60
42:BU:3:ALA:CB	42:BU:12:TYR:HE2	2.15	0.60
43:BV:8:ARG:HA	43:BV:102:HIS:CG	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:59:VAL:HG21	43:BV:66:GLU:CB	2.32	0.60
43:BV:70:TYR:CE1	43:BV:71:VAL:O	2.55	0.60
43:BV:11:ARG:HB2	43:BV:98:LYS:HZ1	1.67	0.60
45:BX:44:ILE:O	45:BX:46:LYS:N	2.34	0.60
46:BY:39:VAL:HG12	46:BY:41:LEU:HD23	1.82	0.60
3:AD:21:A:N1	3:AD:46:G:N2	2.48	0.60
24:BA:2171:A:O2'	24:BA:2172:U:P	2.60	0.60
26:BC:216:THR:O	26:BC:217:THR:C	2.40	0.60
1:AA:999:U:H2'	1:AA:1000:A:O4'	2.02	0.60
24:BA:363(D):G:O2'	24:BA:363(E):U:H5'	2.02	0.60
1:AA:1067:A:O2'	1:AA:1068:G:C8	2.53	0.60
1:AA:1067:A:O2'	1:AA:1068:G:O5'	2.20	0.60
1:AA:1202:G:N2	1:AA:1203:C:O4'	2.34	0.60
1:AA:1373:G:OP1	11:AL:42:ARG:NH2	2.35	0.60
1:AA:1416:G:N2	1:AA:1485:U:H1'	2.17	0.60
1:AA:246:A:O2'	1:AA:247:G:P	2.59	0.60
1:AA:370:C:C2	1:AA:371:G:C8	2.90	0.60
1:AA:841:U:H5'	1:AA:842:C:H5	1.65	0.60
1:AA:902:G:C2'	1:AA:903:G:H5'	2.31	0.60
1:AA:907:A:OP1	1:AA:907:A:H4'	2.02	0.60
3:AD:33:U:H5''	9:AJ:79:ARG:HH22	1.66	0.60
4:AE:16:HIS:HA	4:AE:210:SER:OG	2.02	0.60
6:AG:117:ALA:HA	6:AG:120:LEU:CD2	2.32	0.60
6:AG:31:CYS:O	6:AG:33:MET:N	2.29	0.60
7:AH:145:LYS:HA	7:AH:148:VAL:HG23	1.84	0.60
9:AJ:126:ASP:HA	9:AJ:129:GLU:OE1	2.01	0.60
10:AK:3:THR:HB	10:AK:4:ASP:OD1	2.01	0.60
11:AL:113:LYS:NZ	11:AL:119:ALA:CB	2.64	0.60
11:AL:71:SER:O	11:AL:74:ILE:HB	2.02	0.60
11:AL:85:LEU:HD23	11:AL:96:LEU:CD1	2.26	0.60
12:AM:50:ILE:HA	12:AM:60:ARG:HG3	1.84	0.60
1:AA:529:G:H1	14:AO:49:ASN:HB3	1.67	0.60
15:AP:23:TYR:O	15:AP:66:LEU:HB2	2.01	0.60
15:AP:60:VAL:O	15:AP:61:GLU:C	2.40	0.60
16:AQ:24:CYS:HB2	16:AQ:39:LEU:C	2.22	0.60
17:AR:43:LEU:HD11	17:AR:53:HIS:HA	1.82	0.60
17:AR:77:ARG:O	17:AR:80:ALA:HB3	2.01	0.60
18:AS:72:ARG:HD3	18:AS:73:LEU:N	2.17	0.60
19:AT:59:ILE:CD1	19:AT:72:ARG:N	2.65	0.60
19:AT:75:ARG:HH12	19:AT:77:VAL:CG1	2.13	0.60
20:AU:49:LYS:NZ	20:AU:49:LYS:H	1.97	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:19:LEU:CD1	48:B1:20:VAL:N	2.59	0.60
24:BA:1809:A:H61	50:B3:3:GLU:CG	2.14	0.60
53:B6:26:GLY:O	53:B6:29:LYS:HB2	2.02	0.60
53:B6:33:ARG:O	53:B6:37:LYS:CB	2.49	0.60
54:B7:30:ARG:C	54:B7:34:TRP:HE1	2.04	0.60
24:BA:1085:A:H5''	24:BA:1104:C:O2'	2.01	0.60
24:BA:1322:A:H61	24:BA:1333:C:H1'	1.66	0.60
24:BA:1360:A:N7	24:BA:1361:G:N7	2.49	0.60
24:BA:1731:G:N3	24:BA:1731:G:H3'	2.17	0.60
24:BA:1930:G:C2'	24:BA:1931:U:OP2	2.50	0.60
24:BA:1958:C:O2'	24:BA:1959:G:H5'	2.01	0.60
24:BA:1964:G:H4'	24:BA:1965:C:OP2	2.00	0.60
24:BA:2014:A:H4'	43:BV:92:ARG:HH11	1.66	0.60
24:BA:572:A:C2	24:BA:2033:A:C2	2.86	0.60
24:BA:2046:G:OP1	51:B4:18:ALA:CB	2.50	0.60
24:BA:2061:G:N2	24:BA:2063:C:O4'	2.34	0.60
24:BA:216:A:N7	24:BA:432:A:C6	2.70	0.60
24:BA:220:G:N1	24:BA:427:U:C5	2.70	0.60
24:BA:2232:U:N3	24:BA:2233:U:C5	2.70	0.60
24:BA:2306:C:H42	30:BG:45:GLU:CB	2.00	0.60
24:BA:2345:G:O2'	24:BA:2346:A:OP2	2.19	0.60
24:BA:2363:C:O2'	24:BA:2364:C:H5'	2.01	0.60
24:BA:2416:C:N3	24:BA:2417:C:C5	2.70	0.60
24:BA:2661:G:O2'	24:BA:2662:A:H5'	2.01	0.60
24:BA:2690:C:H2'	24:BA:2691:C:OP2	2.02	0.60
24:BA:457:A:C2	24:BA:470:A:H5''	2.37	0.60
24:BA:497:A:N1	24:BA:498:G:C2	2.70	0.60
24:BA:533:G:C2'	24:BA:534:U:O4'	2.35	0.60
24:BA:784:A:OP1	24:BA:2587:A:O2'	2.20	0.60
24:BA:830:G:C6	24:BA:2448:A:H8	2.19	0.60
24:BA:91:A:H3'	24:BA:92:G:C8	2.37	0.60
27:BD:200:ASP:O	27:BD:203:ASN:N	2.35	0.60
27:BD:246:PRO:O	27:BD:247:ALA:O	2.19	0.60
27:BD:45:ASN:OD1	27:BD:50:THR:HG23	2.00	0.60
27:BD:63:ARG:HB3	27:BD:65:ILE:HD11	1.83	0.60
28:BE:17:ASP:N	28:BE:17:ASP:OD2	2.33	0.60
28:BE:49:LEU:CG	28:BE:74:PRO:CG	2.80	0.60
28:BE:49:LEU:HG	28:BE:74:PRO:HG3	1.80	0.60
30:BG:170:ARG:O	30:BG:172:LEU:N	2.35	0.60
24:BA:2311:A:H2	30:BG:45:GLU:OE2	1.85	0.60
31:BH:105:LEU:HD12	31:BH:105:LEU:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:35:ARG:NH1	34:BM:48:MET:SD	2.75	0.60
34:BM:39:ARG:HB2	34:BM:48:MET:HE1	1.83	0.60
34:BM:70:LYS:HD2	34:BM:86:PRO:CB	2.32	0.60
35:BN:111:PHE:HB2	35:BN:114:ILE:HG13	1.82	0.60
35:BN:9:GLU:CB	35:BN:17:ARG:HG2	2.30	0.60
39:BR:39:ILE:O	39:BR:47:THR:HG23	2.01	0.60
41:BT:62:ILE:HG22	41:BT:63:VAL:N	2.15	0.60
43:BV:44:ALA:O	43:BV:47:VAL:HG22	2.02	0.60
44:BW:42:ALA:O	44:BW:46:ALA:HB3	2.01	0.60
45:BX:67:LEU:CD1	45:BX:71:LYS:NZ	2.63	0.60
45:BX:88:LYS:O	45:BX:91:GLU:HB2	2.01	0.60
46:BY:39:VAL:HG13	46:BY:44:PHE:CG	2.35	0.60
24:BA:2353:G:H4'	47:BZ:32:ARG:NH1	2.17	0.60
24:BA:2158:A:O2'	24:BA:2159:G:OP2	2.20	0.60
26:BC:100:ILE:HA	26:BC:103:ILE:HD12	1.83	0.60
1:AA:1032(B):G:H2'	1:AA:1033:G:C8	2.36	0.60
25:BB:35:U:H2'	25:BB:36:C:C6	2.35	0.60
1:AA:1044:A:C6	1:AA:1045:C:H1'	2.37	0.59
1:AA:122:G:O2'	1:AA:123:C:H5'	2.02	0.59
1:AA:1288:A:C4	1:AA:1289:A:N7	2.70	0.59
1:AA:1298:C:N4	9:AJ:114:ARG:O	2.35	0.59
1:AA:482:A:H2	1:AA:483:C:C1'	2.13	0.59
1:AA:608:A:C2	1:AA:609:A:O4'	2.54	0.59
1:AA:67:C:H1'	1:AA:172:A:H1'	1.84	0.59
1:AA:762:C:H2'	1:AA:763:G:C8	2.37	0.59
1:AA:992:U:O2'	1:AA:993:G:OP2	2.17	0.59
1:AA:995:C:O2	16:AQ:4:LYS:HE2	2.02	0.59
2:AC:40:C:C2'	2:AC:41:C:C5'	2.76	0.59
3:AD:5:A:C6	3:AD:69:C:N4	2.70	0.59
4:AE:84:GLU:HG3	4:AE:212:GLN:OE1	2.01	0.59
5:AF:26:LYS:O	5:AF:28:GLN:N	2.35	0.59
5:AF:33:LEU:HD11	16:AQ:54:PRO:HD2	1.84	0.59
6:AG:127:THR:OG1	6:AG:149:ALA:HA	2.02	0.59
6:AG:152:SER:C	6:AG:154:ASN:H	2.03	0.59
6:AG:199:ASN:OD1	6:AG:202:LEU:HB2	2.01	0.59
6:AG:78:LEU:O	6:AG:79:PHE:C	2.40	0.59
8:AI:52:ILE:HG21	8:AI:87:ARG:HH12	1.67	0.59
9:AJ:110:GLN:O	9:AJ:111:ARG:O	2.19	0.59
10:AK:103:VAL:HG11	10:AK:109:ILE:O	2.02	0.59
10:AK:122:ARG:HD3	10:AK:123:GLU:N	2.15	0.59
11:AL:116:LYS:CB	11:AL:122:ALA:HA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:67:GLY:O	11:AL:73:GLN:NE2	2.35	0.59
12:AM:10:GLY:HA3	12:AM:16:LEU:CD2	2.27	0.59
12:AM:30:SER:OG	12:AM:81:THR:HA	2.02	0.59
12:AM:50:ILE:HG12	12:AM:60:ARG:CD	2.32	0.59
14:AO:100:ILE:C	14:AO:101:VAL:HG22	2.22	0.59
14:AO:27:LEU:HD22	14:AO:62:SER:OG	2.00	0.59
15:AP:104:ARG:HG2	15:AP:105:THR:N	2.17	0.59
1:AA:953:G:O2'	15:AP:124:PRO:O	2.18	0.59
17:AR:70:LEU:C	17:AR:70:LEU:HD12	2.23	0.59
18:AS:34:GLU:HG3	18:AS:59:TRP:HZ2	1.67	0.59
19:AT:75:ARG:HH12	19:AT:77:VAL:CA	2.15	0.59
20:AU:50:ILE:CD1	20:AU:70:ILE:HG21	2.32	0.59
22:AW:66:ALA:HB3	22:AW:72:LEU:HB2	1.82	0.59
48:B1:22:GLU:O	48:B1:25:ARG:HB2	2.01	0.59
48:B1:36:ILE:HG23	48:B1:41:GLN:HE22	1.65	0.59
49:B2:7:LYS:HZ1	49:B2:32:GLN:CA	2.14	0.59
51:B4:20:ARG:C	51:B4:23:HIS:HB2	2.23	0.59
53:B6:22:MET:HA	53:B6:28:ARG:CG	2.30	0.59
24:BA:1053:C:N4	24:BA:1105:U:H3	2.00	0.59
24:BA:1115:G:H2'	24:BA:1115:G:N3	2.16	0.59
24:BA:1137:G:C8	24:BA:1138:G:C8	2.90	0.59
24:BA:1366:A:H5'	50:B3:1:MET:H3	1.64	0.59
24:BA:150:C:H2'	24:BA:151:C:H6	1.67	0.59
24:BA:1529:A:H3'	24:BA:1530:G:C8	2.37	0.59
24:BA:1554:A:HO2'	24:BA:1555:G:P	2.25	0.59
24:BA:1711:C:H2'	24:BA:1712:C:C5	2.36	0.59
24:BA:1791:A:C5'	27:BD:213:ARG:HG2	2.31	0.59
24:BA:1955:U:C3'	24:BA:1956:U:H5	2.15	0.59
24:BA:2092:U:H4'	24:BA:2225:A:H2	1.67	0.59
24:BA:2208:U:C2'	24:BA:2209:C:C5'	2.76	0.59
24:BA:2230:G:H2'	24:BA:2231:C:H6	1.67	0.59
24:BA:2284:C:O2	24:BA:2325:G:O6	2.19	0.59
24:BA:242:G:N7	54:B7:2:PRO:HG2	2.17	0.59
24:BA:270(Z):U:H2'	24:BA:271(A):C:H5''	1.84	0.59
24:BA:2731:G:O2'	24:BA:2732:G:H5'	2.02	0.59
24:BA:2732:G:H3'	24:BA:2733:A:H5'	1.84	0.59
24:BA:2774:C:H3'	24:BA:2775:A:H8	1.67	0.59
24:BA:2797:U:OP1	24:BA:2797:U:O4'	2.19	0.59
24:BA:2886:G:H21	24:BA:2887:U:H1'	1.67	0.59
24:BA:417:C:O2'	24:BA:418:G:H5'	2.02	0.59
24:BA:465:G:N3	24:BA:683:C:O2'	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:469:G:OP2	29:BF:59:TYR:OH	2.16	0.59
24:BA:568:U:C2'	24:BA:570:G:N7	2.64	0.59
24:BA:598:G:C2	24:BA:599:G:H1'	2.37	0.59
24:BA:598:G:C4'	36:BO:13:ASN:ND2	2.65	0.59
24:BA:653:A:C8	24:BA:655:A:OP1	2.55	0.59
24:BA:775:G:N2	24:BA:788:A:OP2	2.34	0.59
24:BA:464:U:C2	24:BA:788:A:N7	2.70	0.59
24:BA:859:G:H1'	24:BA:2268:A:C2	2.37	0.59
24:BA:918:A:H2	24:BA:919:G:C6	2.20	0.59
24:BA:729:G:P	27:BD:13:ARG:HH22	2.25	0.59
27:BD:148:GLU:HA	27:BD:186:HIS:CE1	2.37	0.59
27:BD:176:ARG:HH11	27:BD:176:ARG:HG3	1.67	0.59
27:BD:232:PRO:HG3	27:BD:248:SER:O	2.02	0.59
24:BA:1798:U:C5'	27:BD:257:LEU:HD12	2.30	0.59
27:BD:5:LYS:CA	27:BD:28:GLU:HB2	2.32	0.59
27:BD:7:LYS:HD2	27:BD:9:TYR:CZ	2.37	0.59
27:BD:9:TYR:CE2	27:BD:201:HIS:HB2	2.36	0.59
28:BE:157:ALA:O	28:BE:160:TYR:HE1	1.85	0.59
28:BE:197:ILE:N	28:BE:197:ILE:CD1	2.61	0.59
28:BE:60:ASN:O	28:BE:61:ARG:C	2.40	0.59
29:BF:5:ALA:HB2	29:BF:24:LEU:HG	1.84	0.59
29:BF:30:PRO:O	29:BF:33:LEU:CD1	2.49	0.59
29:BF:93:LYS:O	29:BF:94:PRO:C	2.39	0.59
30:BG:8:LYS:HE3	30:BG:12:TYR:CB	2.31	0.59
30:BG:4:ASP:HA	30:BG:7:LEU:CG	2.32	0.59
31:BH:125:VAL:O	31:BH:127:GLU:N	2.34	0.59
31:BH:145:ALA:O	31:BH:148:ILE:HG23	2.01	0.59
31:BH:7:LEU:N	31:BH:7:LEU:HD23	2.17	0.59
31:BH:95:ARG:N	31:BH:95:ARG:HD2	2.12	0.59
34:BM:25:ARG:HE	34:BM:26:LEU:N	2.00	0.59
34:BM:21:LYS:HB2	34:BM:26:LEU:HD22	1.83	0.59
34:BM:34:LEU:HB3	34:BM:116:LEU:CD1	2.25	0.59
35:BN:53:LYS:HG3	35:BN:54:GLU:N	2.17	0.59
35:BN:92:GLU:OE2	35:BN:114:ILE:HG13	2.02	0.59
36:BO:99:LEU:HD13	36:BO:101:VAL:HG21	1.84	0.59
37:BP:82:ARG:HG2	37:BP:83:MET:H	1.67	0.59
39:BR:30:ARG:C	39:BR:34:HIS:HD2	2.05	0.59
24:BA:2320:A:N6	39:BR:4:LEU:CD2	2.64	0.59
40:BS:65:LYS:CE	40:BS:75:ILE:CD1	2.80	0.59
41:BT:104:GLN:O	41:BT:108:GLU:OE2	2.20	0.59
41:BT:59:ARG:O	41:BT:60:LEU:C	2.40	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:996:A:H5'	41:BT:93:LYS:CD	2.32	0.59
41:BT:93:LYS:CG	42:BU:10:LYS:HZ3	2.15	0.59
42:BU:11:GLN:NE2	42:BU:24:LYS:NZ	2.49	0.59
43:BV:16:LYS:NZ	43:BV:16:LYS:N	2.43	0.59
43:BV:25:ARG:HD3	43:BV:75:TYR:CD2	2.36	0.59
46:BY:1:MET:CE	46:BY:59:LEU:HD22	2.32	0.59
46:BY:9:TYR:CD1	46:BY:14:LYS:HG2	2.37	0.59
47:BZ:26:TYR:CE1	47:BZ:29:GLN:OE1	2.54	0.59
26:BC:110:PHE:CD1	26:BC:110:PHE:O	2.54	0.59
26:BC:20:TYR:HE1	26:BC:222:VAL:HG11	1.65	0.59
32:BK:117:GLU:H	32:BK:117:GLU:CD	2.05	0.59
1:AA:1148:U:O2	1:AA:1149:C:N1	2.35	0.59
1:AA:1239:A:H1'	1:AA:1241:G:C4	2.37	0.59
1:AA:1276:G:H2'	1:AA:1277:C:O4'	2.02	0.59
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.67	0.59
1:AA:1323:G:H4'	1:AA:1362(A):C:C4	2.36	0.59
1:AA:177:C:N3	1:AA:178:C:C5	2.70	0.59
1:AA:266:G:H8	19:AT:67:LYS:NZ	1.98	0.59
1:AA:519:C:C4	1:AA:520:A:N3	2.70	0.59
1:AA:603:U:H2'	1:AA:604:G:C8	2.37	0.59
1:AA:646:U:H2'	1:AA:647:C:C6	2.37	0.59
1:AA:720:C:OP2	1:AA:721:G:H3'	2.02	0.59
1:AA:766:A:O2'	1:AA:767:A:H5'	2.01	0.59
1:AA:996:A:N1	1:AA:997:U:C4	2.70	0.59
2:AC:71:C:C2	2:AC:72:A:C8	2.90	0.59
3:AD:39:U:C2	3:AD:40:C:C6	2.90	0.59
5:AF:134:ILE:O	5:AF:138:VAL:HG23	2.02	0.59
5:AF:14:ILE:HG13	5:AF:178:LEU:CD1	2.32	0.59
5:AF:189:ALA:HB3	5:AF:196:LEU:H	1.66	0.59
7:AH:111:GLU:CG	7:AH:112:LEU:N	2.65	0.59
9:AJ:22:LEU:O	9:AJ:25:ALA:HB3	2.02	0.59
10:AK:44:PHE:CD1	10:AK:79:VAL:HG12	2.35	0.59
11:AL:48:GLU:HB2	11:AL:78:LYS:HZ3	1.67	0.59
12:AM:49:VAL:C	12:AM:60:ARG:HG3	2.22	0.59
13:AN:23:ALA:O	13:AN:87:THR:O	2.19	0.59
14:AO:84:LEU:N	14:AO:104:VAL:HG11	2.17	0.59
14:AO:41:ARG:HG2	14:AO:42:THR:HG22	1.83	0.59
14:AO:77:LEU:HA	14:AO:81:SER:OG	2.02	0.59
14:AO:6:THR:OG1	14:AO:9:GLN:HB2	2.01	0.59
1:AA:1326:C:H5''	23:AX:12:LYS:HZ1	1.66	0.59
24:BA:61:G:C5'	48:B1:45:ILE:HD13	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:35:ARG:NH2	49:B2:54:VAL:HG11	2.17	0.59
52:B5:49:HIS:O	52:B5:50:ARG:CB	2.50	0.59
24:BA:1062:G:N2	24:BA:1063:G:H1'	2.17	0.59
24:BA:1163:G:C2	24:BA:1164:G:C8	2.90	0.59
24:BA:1205:U:O2'	24:BA:1206:G:C6	2.54	0.59
24:BA:1246:A:P	36:BO:15:ARG:HD3	2.42	0.59
24:BA:1268:A:P	24:BA:2006:C:OP2	2.60	0.59
24:BA:1459:G:O6	24:BA:1461:G:C2	2.55	0.59
24:BA:1668:A:N1	24:BA:1993:U:O2	2.35	0.59
24:BA:1789:A:OP1	27:BD:222:ARG:HB3	2.01	0.59
24:BA:1998:G:C6	24:BA:1999:C:C4	2.90	0.59
24:BA:578:A:C2	24:BA:2018:G:O4'	2.55	0.59
24:BA:2063:C:O2	24:BA:2451:A:N1	2.35	0.59
24:BA:2376:A:N6	39:BR:94:TYR:CD1	2.70	0.59
24:BA:2574:G:O2'	28:BE:143:ASN:HB3	2.02	0.59
24:BA:366:C:H5''	24:BA:403:U:H3	1.67	0.59
24:BA:591:C:C4	24:BA:592:G:N7	2.70	0.59
24:BA:783:A:H3'	24:BA:783:A:C8	2.36	0.59
24:BA:819:A:C5	24:BA:973:A:C2	2.90	0.59
24:BA:833:U:H2'	24:BA:834:C:C6	2.37	0.59
24:BA:935:C:O2'	24:BA:936:C:O5'	2.19	0.59
25:BB:45:A:N3	25:BB:45:A:H2'	2.16	0.59
27:BD:73:VAL:HB	27:BD:121:PRO:HD2	1.84	0.59
27:BD:193:VAL:CG1	27:BD:194:GLY:N	2.65	0.59
27:BD:214:TRP:NE1	27:BD:219:PRO:HB2	2.16	0.59
24:BA:1569:A:H4'	27:BD:39:LYS:HE2	1.83	0.59
27:BD:46:GLN:CD	27:BD:52:ARG:HH12	2.05	0.59
28:BE:133:LYS:NZ	28:BE:137:HIS:HB3	2.16	0.59
28:BE:7:VAL:CG2	28:BE:8:LYS:N	2.65	0.59
29:BF:161:GLU:O	29:BF:165:ARG:CB	2.49	0.59
29:BF:53:THR:O	29:BF:56:GLU:OE1	2.19	0.59
30:BG:172:LEU:O	30:BG:176:LEU:HB2	2.02	0.59
30:BG:22:ARG:NH2	30:BG:22:ARG:CB	2.59	0.59
30:BG:43:LEU:HD23	30:BG:44:GLY:N	2.17	0.59
31:BH:15:VAL:HG21	31:BH:76:VAL:HG12	1.83	0.59
33:BL:18:THR:HG22	33:BL:34:ILE:C	2.22	0.59
36:BO:107:LYS:NZ	36:BO:110:TYR:HB3	2.16	0.59
36:BO:121:LYS:HB2	36:BO:137:LYS:HG2	1.84	0.59
36:BO:124:LYS:NZ	36:BO:141:ALA:HB1	2.17	0.59
36:BO:91:PHE:HE2	36:BO:99:LEU:CD1	2.15	0.59
37:BP:22:LYS:HB2	46:BY:79:ARG:HH22	1.62	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:5:LYS:HZ3	38:BQ:5:LYS:C	2.05	0.59
38:BQ:5:LYS:NZ	38:BQ:6:SER:N	2.49	0.59
38:BQ:72:ASP:O	38:BQ:76:VAL:HG23	2.01	0.59
39:BR:106:ARG:HD3	39:BR:106:ARG:C	2.23	0.59
39:BR:24:LEU:O	39:BR:86:ALA:HB1	2.01	0.59
39:BR:49:VAL:HG21	39:BR:80:LEU:HD12	1.82	0.59
40:BS:82:LEU:O	40:BS:84:GLN:N	2.35	0.59
41:BT:63:VAL:O	41:BT:65:ILE:N	2.34	0.59
41:BT:88:ILE:CB	42:BU:52:VAL:HG22	2.31	0.59
42:BU:67:GLY:C	42:BU:93:GLU:O	2.39	0.59
42:BU:63:GLY:O	42:BU:97:LYS:HB2	2.02	0.59
44:BW:12:VAL:HG23	44:BW:28:PHE:C	2.22	0.59
45:BX:19:LYS:HG3	45:BX:21:LYS:HE2	1.83	0.59
45:BX:1:MET:HA	45:BX:33:LYS:CG	2.32	0.59
46:BY:176:PRO:HB2	46:BY:179:ASP:N	2.17	0.59
46:BY:41:LEU:O	46:BY:44:PHE:HB2	2.02	0.59
32:BK:77:LEU:CD1	32:BK:142:VAL:HG22	2.32	0.59
32:BK:68:LEU:HD22	32:BK:72:LEU:HD11	1.83	0.59
32:BK:77:LEU:O	32:BK:142:VAL:HA	2.02	0.59
3:AD:19:G:N1	3:AD:56:C:C2	2.70	0.59
24:BA:2126:A:C4'	24:BA:2127:G:O5'	2.48	0.59
26:BC:177:LYS:HE2	26:BC:178:ALA:N	2.17	0.59
26:BC:68:LEU:CD2	26:BC:69:GLY:N	2.63	0.59
24:BA:1497:U:O4	24:BA:1577:C:O4'	2.20	0.59
1:AA:1451:A:C5'	1:AA:1452:C:H5	2.13	0.59
26:BC:140:PRO:O	26:BC:141:LYS:HB2	2.00	0.59
1:AA:1188:A:N3	1:AA:1188:A:H2'	2.17	0.59
1:AA:1275:A:C2'	1:AA:1276:G:H5'	2.31	0.59
1:AA:258:G:C4	1:AA:259:G:N7	2.70	0.59
1:AA:437:U:HO2'	6:AG:123:HIS:CE1	2.19	0.59
1:AA:65:U:H5''	1:AA:66:G:OP1	2.02	0.59
1:AA:735:C:H2'	1:AA:736:C:H6	1.68	0.59
1:AA:652:U:C5	1:AA:752:G:C4	2.90	0.59
1:AA:874:G:N2	1:AA:875:C:C1'	2.65	0.59
2:AC:19:G:N2	2:AC:56:C:N3	2.49	0.59
2:AC:76:A:H3'	2:AC:76:A:C8	2.37	0.59
4:AE:163:PHE:CE1	4:AE:201:ILE:HD13	2.37	0.59
4:AE:58:ILE:O	4:AE:61:LEU:CB	2.48	0.59
5:AF:58:GLU:O	5:AF:64:VAL:HA	2.02	0.59
7:AH:124:GLY:O	7:AH:126:ARG:N	2.36	0.59
7:AH:109:ILE:HD13	7:AH:139:LEU:CD1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:101:LEU:C	9:AJ:101:LEU:HD23	2.22	0.59
10:AK:123:GLU:O	10:AK:126:LYS:HE3	2.01	0.59
10:AK:9:MET:HG3	10:AK:26:VAL:HG11	1.83	0.59
10:AK:46:LYS:HB2	10:AK:63:LEU:O	2.03	0.59
15:AP:34:LEU:HD22	15:AP:41:PRO:HA	1.85	0.59
20:AU:72:ARG:O	20:AU:75:ILE:HB	2.03	0.59
48:B1:20:VAL:HA	48:B1:55:LEU:CD2	2.23	0.59
48:B1:18:LYS:O	48:B1:21:ARG:HB2	2.03	0.59
24:BA:1184:G:OP1	49:B2:30:ARG:NH1	2.35	0.59
52:B5:19:ARG:O	52:B5:20:ASN:CB	2.51	0.59
24:BA:1069:A:H8	24:BA:1074:G:N7	2.00	0.59
24:BA:51:G:H1'	24:BA:118:A:N6	2.16	0.59
24:BA:1234:U:O2'	24:BA:1235:G:H5'	2.02	0.59
24:BA:1312:U:C6	24:BA:1313:U:C5	2.90	0.59
24:BA:1419:A:H3'	24:BA:1420:U:C2	2.37	0.59
24:BA:1439:A:H2'	24:BA:1440:G:C5'	2.32	0.59
24:BA:1477:A:O3'	24:BA:1478:G:O4'	2.19	0.59
24:BA:1504:C:H6	24:BA:1504:C:O5'	1.86	0.59
24:BA:1662:C:C4	24:BA:1663:C:N4	2.70	0.59
24:BA:1667:G:C2	24:BA:1991:U:C4	2.89	0.59
24:BA:1681:G:C2	24:BA:1762:A:C8	2.90	0.59
24:BA:1780:A:OP1	24:BA:1782:C:OP1	2.20	0.59
24:BA:1791:A:H2	24:BA:1829:A:O2'	1.85	0.59
24:BA:1826:G:C8	24:BA:1826:G:O5'	2.49	0.59
24:BA:1834:U:C4'	24:BA:1834:U:OP1	2.50	0.59
24:BA:197:A:C2	24:BA:198:C:H1'	2.37	0.59
24:BA:2020:A:C8	24:BA:2022:U:C4	2.90	0.59
24:BA:2277:G:H5''	24:BA:2278:A:OP2	2.01	0.59
24:BA:2497:A:C8	24:BA:2497:A:H3'	2.35	0.59
24:BA:2546:U:C4'	24:BA:2565:A:C2	2.85	0.59
24:BA:2591:C:O2'	24:BA:2592:G:H5'	2.01	0.59
24:BA:2776:A:C4	24:BA:2778:A:C8	2.91	0.59
24:BA:2782:G:OP2	24:BA:2782:G:O4'	2.20	0.59
24:BA:324:A:C2	24:BA:325:G:C1'	2.82	0.59
24:BA:460:A:H2'	24:BA:461:C:H6	1.67	0.59
24:BA:460:A:H2'	24:BA:461:C:C6	2.37	0.59
24:BA:527:C:H2'	34:BM:114:ARG:NH1	2.16	0.59
24:BA:636:G:N1	36:BO:75:ILE:HD12	2.17	0.59
24:BA:661:C:O2'	24:BA:662:G:H5'	2.02	0.59
25:BB:12:C:C2'	25:BB:13:A:H5''	2.32	0.59
25:BB:71:C:H2'	25:BB:71:C:O2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2209:C:C4'	27:BD:150:LYS:HB3	2.31	0.59
27:BD:130:ALA:HB2	27:BD:192:THR:HA	1.84	0.59
27:BD:208:LYS:CG	27:BD:211:ARG:HG3	2.32	0.59
27:BD:267:SER:O	27:BD:268:ARG:O	2.20	0.59
24:BA:1812:A:O2'	27:BD:47:GLY:N	2.35	0.59
28:BE:125:GLY:N	28:BE:136:ARG:HB2	2.18	0.59
28:BE:173:VAL:HG13	28:BE:183:LEU:O	2.01	0.59
28:BE:22:PRO:HA	28:BE:185:LYS:N	2.15	0.59
28:BE:91:VAL:HG21	28:BE:93:VAL:HG13	1.83	0.59
24:BA:586:A:H5'	29:BF:89:VAL:HG21	1.84	0.59
32:BK:31:LEU:N	32:BK:32:PRO:HD2	2.17	0.59
33:BL:112:MET:CE	33:BL:119:ASP:H	2.15	0.59
34:BM:112:LEU:CD2	34:BM:115:ARG:HH21	2.15	0.59
35:BN:57:VAL:HG23	35:BN:59:LYS:CD	2.32	0.59
35:BN:59:LYS:HD3	35:BN:59:LYS:N	2.16	0.59
36:BO:124:LYS:NZ	36:BO:141:ALA:CB	2.64	0.59
36:BO:47:ASP:CG	36:BO:48:PRO:HD3	2.23	0.59
36:BO:73:GLY:N	36:BO:107:LYS:HE3	2.16	0.59
36:BO:79:ARG:NE	36:BO:83:VAL:CG1	2.61	0.59
37:BP:111:GLU:HB3	37:BP:113:GLN:CG	2.24	0.59
38:BQ:102:GLU:CD	38:BQ:103:ARG:N	2.56	0.59
38:BQ:74:LYS:N	38:BQ:74:LYS:HZ2	1.95	0.59
39:BR:106:ARG:CZ	39:BR:110:LEU:HB3	2.32	0.59
39:BR:28:VAL:HG21	39:BR:101:LEU:HB2	1.82	0.59
39:BR:78:LEU:HG	39:BR:111:GLU:OE1	2.00	0.59
40:BS:28:VAL:O	40:BS:52:ILE:HG13	2.01	0.59
40:BS:56:GLY:O	40:BS:61:PHE:HB3	2.02	0.59
42:BU:5:VAL:CG1	42:BU:37:VAL:HG22	2.31	0.59
44:BW:35:THR:HB	44:BW:38:GLU:HB2	1.84	0.59
44:BW:49:VAL:HG12	44:BW:88:LYS:HB3	1.83	0.59
45:BX:97:ARG:HG2	45:BX:101:LYS:HB3	1.84	0.59
45:BX:97:ARG:CZ	45:BX:101:LYS:CG	2.78	0.59
46:BY:153:SER:OG	46:BY:154:ASP:N	2.31	0.59
46:BY:20:ARG:CZ	46:BY:20:ARG:HB2	2.30	0.59
46:BY:55:HIS:N	46:BY:55:HIS:ND1	2.48	0.59
32:BK:82:ARG:HG2	32:BK:147:GLN:HE22	1.67	0.59
3:AD:17:U:H3'	3:AD:18:G:H8	1.68	0.59
3:AD:47:U:H2'	3:AD:48:C:C5'	2.29	0.59
24:BA:2130:U:O2'	24:BA:2133:G:O3'	2.16	0.59
26:BC:120:MET:SD	26:BC:145:VAL:HG22	2.42	0.59
26:BC:41:VAL:HG22	26:BC:216:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1585:C:H4'	24:BA:1586:A:O5'	2.00	0.59
32:BK:135:GLU:OE1	32:BK:136:VAL:HG13	2.03	0.59
1:AA:1000:A:N6	1:AA:1001:G:O6	2.36	0.59
1:AA:103:C:H1'	1:AA:151:A:C2	2.36	0.59
1:AA:1159:U:C5	1:AA:1182:G:N3	2.70	0.59
1:AA:953:G:C6	1:AA:1229:A:C6	2.89	0.59
1:AA:1481:U:H2'	1:AA:1482:G:H8	1.65	0.59
1:AA:184:G:H4'	1:AA:224:C:O3'	2.03	0.59
1:AA:274:A:O2'	1:AA:275:G:H1'	2.03	0.59
1:AA:610:G:C2'	1:AA:611:A:H5'	2.31	0.59
1:AA:61:G:C6	1:AA:107:G:C6	2.90	0.59
1:AA:675:A:H2'	1:AA:676:A:H8	1.66	0.59
1:AA:819:A:H5''	1:AA:820:U:OP2	2.01	0.59
1:AA:880:C:H3'	14:AO:9:GLN:NE2	2.16	0.59
1:AA:939:G:H4'	1:AA:1375:A:O2'	2.02	0.59
1:AA:948:C:O2'	1:AA:949:A:C5'	2.50	0.59
3:AD:40:C:C3'	3:AD:41:G:C5'	2.80	0.59
4:AE:42:ILE:CD1	4:AE:202:PRO:HB2	2.30	0.59
4:AE:84:GLU:OE1	4:AE:219:VAL:HB	2.01	0.59
5:AF:120:VAL:HG13	5:AF:133:ALA:HB1	1.83	0.59
6:AG:60:GLU:OE2	6:AG:202:LEU:HD12	2.00	0.59
7:AH:100:VAL:CG1	7:AH:107:ARG:HG3	2.25	0.59
7:AH:114:GLY:O	7:AH:115:VAL:CG1	2.42	0.59
9:AJ:15:ASP:CB	9:AJ:23:VAL:HG11	2.31	0.59
10:AK:70:GLN:HB2	10:AK:73:ASP:O	2.02	0.59
10:AK:9:MET:C	10:AK:13:ILE:HD12	2.23	0.59
11:AL:47:LEU:HD12	11:AL:51:ARG:NH1	2.16	0.59
12:AM:65:LEU:HB2	16:AQ:56:VAL:HG13	1.85	0.59
21:AV:39:THR:O	21:AV:41:VAL:HG22	2.02	0.59
22:AW:59:ALA:O	22:AW:60:GLU:C	2.39	0.59
51:B4:6:VAL:HG13	51:B4:6:VAL:O	2.01	0.59
24:BA:2615:U:N1	51:B4:7:PRO:HA	2.17	0.59
52:B5:26:ASN:O	52:B5:27:LYS:HD3	2.01	0.59
52:B5:27:LYS:O	52:B5:28:ARG:HB3	2.02	0.59
54:B7:4:MET:HE1	54:B7:62:LEU:CD1	2.32	0.59
55:B8:11:CYS:HB3	55:B8:32:HIS:CD2	2.38	0.59
24:BA:1061:U:H4'	24:BA:1070:A:C3'	2.31	0.59
24:BA:1246:A:OP2	36:BO:15:ARG:CD	2.49	0.59
24:BA:1268:A:C2	24:BA:1269:A:H1'	2.37	0.59
24:BA:1445:C:H2'	24:BA:1446:C:C6	2.38	0.59
24:BA:1459:G:O6	24:BA:1461:G:C5	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1470:G:N3	24:BA:1522:G:N2	2.50	0.59
24:BA:1492:G:H2'	24:BA:1493:C:N4	2.16	0.59
24:BA:1567:A:N3	24:BA:1567:A:C3'	2.65	0.59
24:BA:1605:C:H2'	24:BA:1606:G:O4'	2.02	0.59
24:BA:1612:C:C2	24:BA:1620:G:N2	2.70	0.59
24:BA:16:G:H2'	24:BA:17:G:H8	1.68	0.59
24:BA:2077:A:N6	24:BA:2078:C:N4	2.49	0.59
24:BA:2334:G:N2	39:BR:11:LYS:CE	2.64	0.59
24:BA:1050:A:N6	24:BA:2751:G:C5	2.70	0.59
24:BA:2881:C:H5'	38:BQ:90:ARG:HH22	1.66	0.59
24:BA:298:G:H1	24:BA:338:G:H4'	1.67	0.59
24:BA:414:C:H1'	24:BA:1864:U:O2'	2.02	0.59
24:BA:533:G:N3	24:BA:534:U:H1'	2.17	0.59
24:BA:695:G:C2	24:BA:696:G:C8	2.90	0.59
24:BA:706:A:O2'	24:BA:707:G:H5'	2.02	0.59
24:BA:757:U:N3	24:BA:758:C:C5	2.70	0.59
24:BA:763:G:N3	24:BA:765:G:H1'	2.17	0.59
24:BA:811:U:O2'	24:BA:812:C:OP1	2.16	0.59
24:BA:82:G:N2	24:BA:103:A:OP2	2.34	0.59
24:BA:950:G:C4	24:BA:951:C:C5	2.91	0.59
24:BA:979:G:N7	24:BA:981:A:OP1	2.34	0.59
24:BA:1566:A:C2	27:BD:215:LEU:HD13	2.34	0.59
27:BD:56:GLY:C	27:BD:217:ARG:NH1	2.55	0.59
28:BE:44:TYR:HD2	28:BE:45:THR:H	1.48	0.59
28:BE:4:ILE:O	28:BE:4:ILE:HG13	2.03	0.59
29:BF:138:GLU:H	29:BF:138:GLU:CD	2.05	0.59
29:BF:6:VAL:HG12	29:BF:18:ARG:NH1	2.17	0.59
30:BG:103:LEU:HD21	30:BG:176:LEU:CD1	2.31	0.59
30:BG:40:ASN:ND2	30:BG:41:GLN:H	2.00	0.59
33:BL:37:PHE:CG	33:BL:57:ILE:HD12	2.38	0.59
33:BL:98:ARG:HD3	33:BL:139:VAL:CB	2.32	0.59
35:BN:10:VAL:HG12	35:BN:17:ARG:HA	1.84	0.59
35:BN:18:LYS:HG2	35:BN:19:ILE:N	2.16	0.59
35:BN:64:ARG:NH1	35:BN:67:LYS:C	2.49	0.59
36:BO:76:LYS:HG3	36:BO:101:VAL:CG1	2.32	0.59
36:BO:95:VAL:C	36:BO:97:PRO:HD2	2.23	0.59
40:BS:3:ARG:O	40:BS:4:GLY:C	2.41	0.59
41:BT:46:ALA:O	41:BT:49:HIS:HB2	2.02	0.59
42:BU:35:LEU:H	42:BU:61:VAL:CG1	2.15	0.59
42:BU:62:LEU:HB2	42:BU:64:HIS:ND1	2.17	0.59
42:BU:69:LYS:HG2	42:BU:70:ILE:HG13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:8:LYS:C	45:BX:10:GLY:N	2.54	0.59
3:AD:14:A:H2'	3:AD:14:A:N3	2.17	0.59
24:BA:2128:C:H2'	24:BA:2129:C:C5'	2.32	0.59
26:BC:7:TYR:HE2	26:BC:11:LEU:HD13	1.64	0.59
26:BC:32:LEU:HD13	26:BC:220:PRO:CG	2.32	0.59
26:BC:60:GLY:H	26:BC:163:PHE:HB2	1.67	0.59
24:BA:1418:G:H1'	24:BA:1579:A:H61	1.66	0.59
1:AA:1004:A:H3'	1:AA:1025:U:C2	2.36	0.59
24:BA:2196:C:H2'	24:BA:2196:C:O2	2.00	0.59
24:BA:2106:G:H2'	24:BA:2107:C:O4'	2.02	0.59
24:BA:171:G:C2	24:BA:172:C:N3	2.70	0.59
1:AA:1142:G:O2'	1:AA:1143:G:H5'	2.03	0.59
1:AA:1193:G:C6	1:AA:1194:U:C4	2.91	0.59
1:AA:1347:G:H4'	1:AA:1348:U:O5'	2.02	0.59
1:AA:791:G:N2	1:AA:1498:U:OP1	2.35	0.59
1:AA:186(A):C:O2'	22:AW:89:ARG:NH2	2.35	0.59
1:AA:22:G:C3'	1:AA:23:C:H6	2.14	0.59
1:AA:373:A:O2'	1:AA:374:A:H5'	2.02	0.59
1:AA:429:U:H5'	1:AA:430:A:OP1	2.01	0.59
1:AA:782:A:C8	1:AA:783:C:C5	2.90	0.59
1:AA:843:U:H4'	1:AA:843:U:OP2	2.02	0.59
1:AA:952:U:O2'	1:AA:953:G:H5'	2.02	0.59
1:AA:953:G:H1'	15:AP:125:ARG:C	2.23	0.59
1:AA:986:A:H2'	1:AA:987:G:H8	1.67	0.59
2:AC:20:U:O2	2:AC:20:U:H3'	2.02	0.59
3:AD:40:C:H2'	3:AD:40:C:O2	2.02	0.59
4:AE:118:LEU:HD11	4:AE:141:GLU:OE2	2.02	0.59
4:AE:18:GLY:HA3	4:AE:41:ILE:HG13	1.83	0.59
5:AF:189:ALA:HB3	5:AF:196:LEU:N	2.17	0.59
6:AG:128:VAL:CG1	6:AG:129:ASN:N	2.65	0.59
6:AG:15:GLU:CB	6:AG:19:LEU:HD11	2.32	0.59
7:AH:105:VAL:HG12	7:AH:106:PRO:CD	2.32	0.59
8:AI:81:ILE:HG22	8:AI:82:ARG:N	2.16	0.59
9:AJ:65:ALA:HA	9:AJ:128:ALA:N	2.17	0.59
1:AA:932:C:H5''	9:AJ:3:ARG:HB3	1.82	0.59
10:AK:40:ALA:HB2	10:AK:45:ILE:CD1	2.31	0.59
1:AA:1342:C:O2'	11:AL:124:GLN:CB	2.50	0.59
11:AL:47:LEU:CD1	11:AL:50:LEU:HB3	2.30	0.59
11:AL:93:ARG:HD2	11:AL:97:LYS:HB2	1.84	0.59
1:AA:1123:A:H5''	12:AM:36:GLY:HA3	1.84	0.59
12:AM:79:ARG:NH2	12:AM:82:ILE:CG2	2.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:7:VAL:HG13	30:BG:114:ILE:CD1	2.32	0.59
1:AA:1309:G:OP1	15:AP:88:ARG:CZ	2.51	0.59
53:B6:17:GLY:N	53:B6:21:ARG:NH2	2.31	0.59
36:BO:56:SER:CB	54:B7:13:ARG:CZ	2.78	0.59
24:BA:1005:C:N3	24:BA:1143:A:OP1	2.36	0.59
24:BA:1065:U:H3'	24:BA:1066:U:C5'	2.30	0.59
24:BA:1128:A:C5	24:BA:2518:A:N6	2.70	0.59
24:BA:1205:U:O2	24:BA:1240:U:C4	2.55	0.59
24:BA:1283:G:O2'	24:BA:1285:G:O6	2.20	0.59
24:BA:1294:U:O2	24:BA:1294:U:H2'	2.02	0.59
24:BA:1451:C:H5'	24:BA:1453:A:OP2	2.01	0.59
24:BA:1492:G:N2	24:BA:1499:C:C5	2.70	0.59
24:BA:1591:G:C6	24:BA:1592:C:N4	2.70	0.59
24:BA:1691:C:C2'	24:BA:1692:U:H5'	2.31	0.59
24:BA:1693:U:O2	24:BA:1693:U:C2'	2.49	0.59
24:BA:1928:A:H2'	24:BA:1929:G:H5'	1.84	0.59
24:BA:2212:A:N3	24:BA:2213:U:C4	2.70	0.59
24:BA:2219:G:O2'	24:BA:2224:G:H5'	2.01	0.59
24:BA:2224:G:H5'	27:BD:262:ARG:NH2	2.17	0.59
24:BA:2387:U:H1'	47:BZ:41:ARG:HH21	1.67	0.59
24:BA:2657:A:O2'	31:BH:160:LYS:NZ	2.29	0.59
24:BA:2698:U:H2'	24:BA:2699:C:H6	1.65	0.59
24:BA:272:G:C2'	24:BA:273:G:H5'	2.31	0.59
24:BA:273:G:C5	24:BA:273(A):G:N7	2.70	0.59
24:BA:2780:G:H21	34:BM:97:ARG:NH1	1.99	0.59
24:BA:2834:G:N1	24:BA:2879:C:N3	2.49	0.59
24:BA:361:G:H2'	24:BA:362:U:C6	2.38	0.59
24:BA:382:G:H2'	24:BA:383:U:H5'	1.84	0.59
24:BA:627:A:H4'	24:BA:627:A:OP2	2.01	0.59
24:BA:640:C:N4	24:BA:647:G:N1	2.44	0.59
24:BA:650:C:C4	24:BA:651:G:C2	2.90	0.59
24:BA:659:C:C4'	29:BF:102:PRO:HD3	2.33	0.59
24:BA:784:A:N7	24:BA:792:G:C5	2.70	0.59
24:BA:838:C:O2'	24:BA:839:U:H5'	2.02	0.59
25:BB:24:G:N2	25:BB:27:C:H42	1.99	0.59
25:BB:43:C:H6	25:BB:43:C:O5'	1.84	0.59
25:BB:69:G:N3	25:BB:69:G:H2'	2.17	0.59
25:BB:82:G:H2'	25:BB:83:G:H8	1.68	0.59
27:BD:205:VAL:HG22	27:BD:205:VAL:O	2.01	0.59
27:BD:246:PRO:HD2	27:BD:250:TRP:CA	2.32	0.59
28:BE:94:GLU:O	28:BE:95:ILE:C	2.40	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:111:ALA:O	29:BF:114:VAL:HB	2.02	0.59
29:BF:45:ARG:HE	29:BF:46:ARG:H	1.50	0.59
30:BG:131:TYR:CZ	30:BG:132:ASN:HA	2.37	0.59
24:BA:2305:A:H2'	30:BG:154:GLY:HA3	1.82	0.59
33:BL:103:GLN:HE22	33:BL:107:ILE:HG13	1.67	0.59
34:BM:109:LYS:HE3	34:BM:110:GLY:H	1.66	0.59
24:BA:2641:G:P	34:BM:83:LYS:HD2	2.42	0.59
35:BN:96:THR:CA	35:BN:117:LEU:HD11	2.32	0.59
29:BF:31:HIS:HB2	36:BO:11:GLY:H	1.67	0.59
36:BO:16:ARG:HG2	36:BO:19:VAL:HG21	1.85	0.59
24:BA:907:U:H5'	37:BP:26:TYR:OH	2.02	0.59
37:BP:45:GLN:O	37:BP:46:GLN:C	2.40	0.59
37:BP:43:THR:HG1	37:BP:46:GLN:N	2.00	0.59
37:BP:6:ARG:NH2	37:BP:8:LYS:H	1.99	0.59
24:BA:2250:G:C8	37:BP:83:MET:HE3	2.37	0.59
38:BQ:6:SER:OG	38:BQ:9:LYS:NZ	2.28	0.59
39:BR:11:LYS:HZ1	39:BR:15:ARG:HH12	1.49	0.59
40:BS:62:THR:HG22	40:BS:79:HIS:CA	2.33	0.59
40:BS:50:ILE:HD12	40:BS:66:VAL:CB	2.33	0.59
41:BT:94:ASN:O	41:BT:97:ASP:HB2	2.03	0.59
41:BT:89:GLU:CD	42:BU:52:VAL:HB	2.22	0.59
42:BU:89:GLN:HG2	42:BU:91:TYR:HD1	1.67	0.59
24:BA:904:C:O4'	46:BY:169:GLU:OE2	2.20	0.59
46:BY:44:PHE:CD2	46:BY:48:PHE:CE1	2.91	0.59
26:BC:190:ARG:HA	26:BC:193:ILE:CD1	2.32	0.59
24:BA:161:U:C2	24:BA:171:G:N2	2.70	0.59
24:BA:2185:C:C2	24:BA:2186:G:C8	2.91	0.59
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.68	0.59
1:AA:122:G:H21	1:AA:123:C:H1'	1.67	0.59
1:AA:1449:C:H2'	1:AA:1450:U:C5'	2.33	0.59
1:AA:1468:A:H2'	1:AA:1469:G:H5'	1.83	0.59
1:AA:511:C:O2'	1:AA:512:U:H6	1.86	0.59
1:AA:579:G:H2'	1:AA:580:U:C5'	2.31	0.59
1:AA:766:A:C2	1:AA:767:A:C4	2.90	0.59
1:AA:795:C:H4'	1:AA:1506:U:O2	2.02	0.59
1:AA:819:A:C6	1:AA:1529:G:N7	2.71	0.59
1:AA:823:G:H21	10:AK:1:MET:N	1.99	0.59
1:AA:986:A:H1'	21:AV:55:LYS:HA	1.83	0.59
4:AE:115:LEU:HD22	4:AE:145:LEU:C	2.23	0.59
4:AE:80:ILE:CD1	4:AE:212:GLN:HB2	2.32	0.59
5:AF:42:LEU:HA	5:AF:45:LYS:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:124:GLY:O	6:AG:125:HIS:C	2.41	0.59
8:AI:76:ALA:CB	8:AI:80:ARG:HH21	2.15	0.59
10:AK:117:GLY:O	10:AK:119:LEU:CD2	2.51	0.59
10:AK:11:THR:C	10:AK:13:ILE:N	2.52	0.59
10:AK:85:ARG:HG2	10:AK:85:ARG:NH1	2.17	0.59
11:AL:37:PHE:N	11:AL:37:PHE:CD2	2.67	0.59
11:AL:49:PRO:HD3	11:AL:78:LYS:HZ2	1.68	0.59
12:AM:72:VAL:O	12:AM:73:ASP:HB2	2.02	0.59
12:AM:18:ALA:HB3	12:AM:91:PRO:HB3	1.84	0.59
13:AN:42:TRP:CZ3	13:AN:47:VAL:HG11	2.38	0.59
16:AQ:16:PHE:HB3	16:AQ:18:VAL:HG22	1.84	0.59
16:AQ:27:CYS:SG	16:AQ:42:ILE:HG13	2.43	0.59
17:AR:57:LEU:O	17:AR:58:MET:C	2.40	0.59
18:AS:32:TYR:CE2	18:AS:35:LYS:HB2	2.37	0.59
19:AT:43:LEU:HD12	19:AT:69:LYS:HB2	1.84	0.59
19:AT:97:SER:C	19:AT:98:LEU:HD22	2.23	0.59
22:AW:16:HIS:O	22:AW:17:ARG:C	2.40	0.59
22:AW:35:THR:HA	22:AW:38:LYS:HD2	1.84	0.59
49:B2:55:ARG:CA	49:B2:55:ARG:NH2	2.64	0.59
51:B4:4:HIS:O	51:B4:4:HIS:HD2	1.86	0.59
52:B5:45:LYS:HA	52:B5:45:LYS:HE2	1.83	0.59
24:BA:1044:G:O2'	24:BA:1047:G:N2	2.36	0.59
24:BA:1168:G:H2'	24:BA:1169:G:O4'	2.02	0.59
24:BA:1252:G:C8	24:BA:1253:A:H1'	2.38	0.59
24:BA:1353:A:O2'	24:BA:1354:A:O4'	2.15	0.59
24:BA:1477:A:O5'	24:BA:1477:A:H8	1.85	0.59
24:BA:147:U:C2	24:BA:148:C:C5	2.91	0.59
24:BA:1696:G:H2'	24:BA:1697:G:O4'	2.02	0.59
24:BA:176:G:H2'	24:BA:177:G:C8	2.38	0.59
24:BA:1844:C:OP1	27:BD:255:LYS:HA	2.02	0.59
24:BA:2206:C:C2	24:BA:2207:C:C6	2.90	0.59
24:BA:2210:G:N7	27:BD:150:LYS:CA	2.64	0.59
24:BA:2224:G:H5''	27:BD:262:ARG:NH1	2.18	0.59
24:BA:2234:G:N2	24:BA:2235:G:H1'	2.17	0.59
24:BA:2286:A:H61	52:B5:29:ASN:C	2.04	0.59
24:BA:2314:C:H2'	24:BA:2315:G:H8	1.68	0.59
24:BA:2481:G:HO2'	24:BA:2482:G:H8	1.49	0.59
24:BA:2572:A:H3'	28:BE:144:ARG:HH21	1.68	0.59
24:BA:2577:A:O5'	24:BA:2577:A:H8	1.85	0.59
24:BA:2595:G:N2	24:BA:2597:G:H3'	2.17	0.59
24:BA:268:C:N3	24:BA:269:U:C5	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2749:A:N1	24:BA:2750:A:N6	2.48	0.59
24:BA:2543:G:C2	24:BA:2765:A:C2	2.89	0.59
24:BA:2633:G:H4'	24:BA:2812:G:OP1	2.02	0.59
24:BA:2838:G:C5	24:BA:2839:G:N7	2.71	0.59
24:BA:360:G:O2'	24:BA:361:G:H5'	2.02	0.59
24:BA:417:C:O5'	24:BA:417:C:H6	1.86	0.59
24:BA:526:A:C5'	24:BA:527:C:OP2	2.51	0.59
24:BA:543:C:C2	24:BA:544:C:C5	2.90	0.59
24:BA:588:U:O4	24:BA:670:A:H1'	2.02	0.59
24:BA:676:A:H8	24:BA:2070:G:H1'	1.66	0.59
24:BA:791:C:C2	24:BA:794:G:O4'	2.55	0.59
24:BA:834:C:O5'	24:BA:834:C:H6	1.84	0.59
24:BA:845:G:O5'	24:BA:845:G:C8	2.52	0.59
24:BA:859:G:O2'	24:BA:860:U:C5'	2.47	0.59
24:BA:878:A:N3	24:BA:879:G:C8	2.71	0.59
24:BA:904:C:C2	24:BA:905:U:C5	2.91	0.59
24:BA:987:G:C5	24:BA:988:A:C8	2.91	0.59
25:BB:50:G:H5''	39:BR:61:ASN:OD1	2.02	0.59
27:BD:76:PRO:CA	27:BD:118:VAL:HG13	2.32	0.59
27:BD:141:VAL:HA	27:BD:163:ALA:O	2.03	0.59
27:BD:183:ARG:HG2	27:BD:184:LYS:H	1.66	0.59
28:BE:14:ILE:H	28:BE:14:ILE:CD1	2.12	0.59
28:BE:80:GLU:OE1	28:BE:80:GLU:N	2.35	0.59
30:BG:118:ARG:NH1	30:BG:118:ARG:HB2	2.13	0.59
30:BG:51:ARG:H	30:BG:51:ARG:CD	2.11	0.59
31:BH:119:GLU:C	31:BH:121:ILE:N	2.56	0.59
33:BL:41:PHE:HE2	33:BL:55:VAL:HG11	1.68	0.59
33:BL:42:ASN:O	33:BL:46:ALA:CB	2.50	0.59
33:BL:66:THR:O	33:BL:67:PHE:CB	2.50	0.59
33:BL:56:GLU:HB3	33:BL:67:PHE:CD2	2.38	0.59
34:BM:128:HIS:O	34:BM:131:GLN:N	2.35	0.59
35:BN:10:VAL:H	35:BN:17:ARG:HG3	1.64	0.59
37:BP:22:LYS:CD	37:BP:23:GLY:N	2.66	0.59
38:BQ:13:HIS:ND1	38:BQ:14:SER:N	2.51	0.59
38:BQ:50:HIS:NE2	38:BQ:54:LEU:HD11	2.17	0.59
39:BR:89:ARG:CG	39:BR:89:ARG:HH21	2.14	0.59
39:BR:92:TYR:CZ	39:BR:93:LYS:HB3	2.36	0.59
40:BS:91:ARG:O	40:BS:93:ARG:NH2	2.36	0.59
44:BW:15:GLU:HB3	44:BW:16:LYS:NZ	2.18	0.59
45:BX:86:ARG:CB	45:BX:86:ARG:NH2	2.63	0.59
46:BY:169:GLU:O	46:BY:169:GLU:HG3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:45:ASP:O	46:BY:49:ARG:HD2	2.02	0.59
46:BY:4:ARG:HH11	46:BY:37:VAL:CB	2.08	0.59
47:BZ:52:GLY:HA3	47:BZ:60:PHE:CZ	2.36	0.59
32:BK:94:ALA:HB1	32:BK:114:LEU:CD1	2.23	0.59
26:BC:194:ARG:O	26:BC:195:ALA:C	2.40	0.59
32:BK:59:ALA:HA	32:BK:62:LYS:CD	2.20	0.59
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.03	0.59
24:BA:2131:G:C8	24:BA:2131:G:OP1	2.56	0.59
1:AA:1126:U:C2	1:AA:1127:G:C8	2.90	0.59
1:AA:1317:C:OP1	1:AA:1317:C:H6	1.86	0.59
1:AA:1320:C:C5	21:AV:37:ARG:HD3	2.38	0.59
1:AA:1404:C:C6	1:AA:1404:C:OP2	2.55	0.59
1:AA:1511:G:N7	1:AA:1512:U:C5	2.71	0.59
1:AA:195:A:C2	1:AA:196:A:H2	2.21	0.59
1:AA:296:U:H2'	1:AA:297:G:H8	1.67	0.59
1:AA:300:A:O5'	1:AA:300:A:H8	1.86	0.59
1:AA:302:G:H2'	1:AA:556:C:C5'	2.31	0.59
1:AA:439:A:OP2	1:AA:493:G:N1	2.29	0.59
1:AA:609:A:O2'	1:AA:610:G:H5'	2.02	0.59
1:AA:867:G:O2'	1:AA:868:C:H5'	2.03	0.59
1:AA:991:U:O2'	1:AA:993:G:H8	1.85	0.59
2:AC:47:U:C5	2:AC:49:G:H4'	2.38	0.59
4:AE:119:GLU:HB2	4:AE:142:LEU:HD11	1.84	0.59
4:AE:188:ALA:HB1	4:AE:192:SER:CB	2.32	0.59
4:AE:24:TRP:CG	4:AE:25:ASN:N	2.63	0.59
4:AE:97:TRP:HZ3	4:AE:172:ILE:CB	2.05	0.59
5:AF:132:ARG:HB3	5:AF:136:GLN:NE2	2.17	0.59
5:AF:57:ILE:CG1	5:AF:66:VAL:HG22	2.32	0.59
6:AG:78:LEU:O	6:AG:81:GLU:N	2.36	0.59
7:AH:15:ARG:HG3	7:AH:15:ARG:NH1	2.16	0.59
7:AH:59:GLY:CA	7:AH:63:ARG:HH21	2.16	0.59
9:AJ:29:LYS:CD	9:AJ:101:LEU:HD22	2.21	0.59
10:AK:19:VAL:HG23	10:AK:21:LYS:CG	2.27	0.59
15:AP:29:ARG:HD3	15:AP:64:TRP:CZ2	2.37	0.59
17:AR:57:LEU:H	17:AR:57:LEU:HD13	1.66	0.59
17:AR:70:LEU:HD21	17:AR:78:TYR:HA	1.85	0.59
20:AU:22:VAL:O	20:AU:25:THR:OG1	2.19	0.59
20:AU:26:LEU:HG	20:AU:27:GLY:N	2.18	0.59
20:AU:40:LEU:N	20:AU:40:LEU:HD23	2.16	0.59
22:AW:48:LYS:O	22:AW:51:GLU:HG2	2.01	0.59
22:AW:88:VAL:HG12	22:AW:92:LEU:CD1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:686:G:C5	53:B6:12:ARG:HD2	2.37	0.59
53:B6:18:PHE:CZ	53:B6:45:ALA:HB2	2.37	0.59
24:BA:459:U:OP2	53:B6:40:TRP:CD2	2.55	0.59
55:B8:10:ILE:HD12	55:B8:34:GLN:NE2	2.17	0.59
55:B8:19:ARG:CG	55:B8:22:ARG:HB2	2.32	0.59
24:BA:1131:G:OP2	24:BA:2515:C:H4'	2.03	0.59
24:BA:1241:A:O2'	24:BA:1242:A:OP1	2.16	0.59
24:BA:1425:G:H2'	24:BA:1426:G:N9	2.16	0.59
24:BA:1521:G:O5'	24:BA:1522:G:OP2	2.20	0.59
24:BA:1528:A:N7	24:BA:1529:A:C2	2.70	0.59
24:BA:1609:A:C8	24:BA:1616:A:H1'	2.37	0.59
24:BA:1652:A:N7	24:BA:1653:G:C2	2.71	0.59
24:BA:1742:C:H2'	24:BA:1743:G:C4'	2.32	0.59
24:BA:1838:C:O2	24:BA:1898:U:C4	2.56	0.59
24:BA:1889:A:C2	24:BA:2234:G:H1'	2.37	0.59
24:BA:1908:C:N4	24:BA:1923:U:H3	2.00	0.59
24:BA:1936:A:H1'	24:BA:1940:U:C2	2.37	0.59
24:BA:1944:U:H1'	24:BA:1955:U:O4'	2.03	0.59
24:BA:2227:A:H5''	27:BD:260:ARG:CB	2.33	0.59
24:BA:2284:C:OP2	52:B5:7:ILE:HD12	2.02	0.59
24:BA:2287:A:C8	24:BA:2289:G:C5	2.90	0.59
24:BA:2306:C:H5	24:BA:2311:A:N6	2.00	0.59
24:BA:246:C:N4	24:BA:247:G:O6	2.36	0.59
24:BA:2597:G:H5'	27:BD:242:ARG:HD3	1.82	0.59
24:BA:2717:G:C4	24:BA:2718:G:C8	2.91	0.59
24:BA:2691:C:C4	24:BA:2719:G:N2	2.70	0.59
24:BA:2749:A:H8	24:BA:2749:A:OP2	1.85	0.59
24:BA:2811:G:C5'	28:BE:60:ASN:ND2	2.66	0.59
24:BA:2820:A:O2'	38:BQ:4:LEU:HB3	2.03	0.59
24:BA:366:C:C5'	24:BA:403:U:N3	2.65	0.59
24:BA:614:U:H5''	24:BA:615:G:OP2	2.03	0.59
24:BA:649:G:N2	24:BA:650:C:H1'	2.17	0.59
24:BA:733:G:H8	24:BA:733:G:OP2	1.86	0.59
24:BA:889:C:H2'	24:BA:890:A:O4'	2.02	0.59
24:BA:861:A:C6	24:BA:917:A:C6	2.91	0.59
24:BA:996:A:O3'	42:BU:10:LYS:NZ	2.35	0.59
27:BD:148:GLU:CA	27:BD:186:HIS:HE1	2.15	0.59
27:BD:5:LYS:HB3	27:BD:29:PRO:HD3	1.84	0.59
24:BA:2823:A:OP2	28:BE:113:PHE:CE1	2.56	0.59
28:BE:111:ARG:N	28:BE:161:GLY:CA	2.66	0.59
28:BE:4:ILE:HG21	28:BE:48:GLN:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:18:ARG:O	29:BF:19:GLU:HG2	2.02	0.59
29:BF:4:VAL:CB	29:BF:20:LEU:HG	2.33	0.59
29:BF:78:ILE:CG1	29:BF:79:GLY:N	2.65	0.59
30:BG:6:ALA:HA	30:BG:9:ARG:NH1	2.18	0.59
31:BH:43:VAL:HG12	31:BH:44:VAL:N	2.16	0.59
24:BA:1058:G:N2	33:BL:116:ASN:ND2	2.49	0.59
33:BL:79:ARG:HG2	33:BL:136:VAL:HG21	1.83	0.59
34:BM:109:LYS:CB	34:BM:113:GLY:H	2.15	0.59
35:BN:47:ILE:HD11	35:BN:51:ALA:H	1.67	0.59
35:BN:47:ILE:O	35:BN:48:PRO:C	2.36	0.59
35:BN:7:TYR:HA	35:BN:18:LYS:CE	2.15	0.59
35:BN:94:ARG:HG3	35:BN:95:GLY:H	1.64	0.59
36:BO:129:ALA:C	36:BO:130:PHE:HD2	2.06	0.59
36:BO:135:LEU:CD1	36:BO:135:LEU:N	2.64	0.59
37:BP:122:GLY:HA2	37:BP:125:LEU:CG	2.33	0.59
37:BP:58:PHE:O	37:BP:60:ARG:N	2.35	0.59
39:BR:3:ARG:HG2	39:BR:4:LEU:CD2	2.31	0.59
42:BU:36:PRO:HA	42:BU:61:VAL:HG22	1.82	0.59
42:BU:78:LYS:NZ	42:BU:84:LYS:CG	2.65	0.59
42:BU:62:LEU:CD2	42:BU:98:GLU:HA	2.31	0.59
43:BV:31:GLU:N	43:BV:31:GLU:OE1	2.36	0.59
43:BV:8:ARG:C	43:BV:102:HIS:CD2	2.76	0.59
44:BW:25:LYS:CD	44:BW:82:GLN:HB2	2.32	0.59
45:BX:88:LYS:CG	45:BX:89:PHE:N	2.63	0.59
46:BY:139:VAL:HG12	46:BY:140:ASP:N	2.17	0.59
46:BY:179:ASP:OD2	46:BY:180:VAL:N	2.32	0.59
24:BA:2354:G:O2'	47:BZ:36:ILE:HG22	2.03	0.59
47:BZ:72:ARG:HB2	47:BZ:78:TYR:CD1	2.37	0.59
32:BK:132:PRO:HD2	32:BK:137:PRO:CA	2.29	0.59
26:BC:102:LYS:CB	26:BC:107:TRP:HE3	2.16	0.59
26:BC:47:LEU:HG	26:BC:49:ILE:CG1	2.32	0.59
26:BC:62:VAL:HG13	26:BC:64:LEU:CD2	2.32	0.59
26:BC:65:PRO:O	26:BC:66:HIS:HB2	2.02	0.59
1:AA:166:G:O2'	1:AA:167:G:C5'	2.48	0.59
1:AA:20:U:H2'	1:AA:20:U:O2	2.03	0.59
1:AA:246:A:N1	1:AA:279:A:N7	2.51	0.59
1:AA:523:A:N6	14:AO:53:ARG:NH2	2.50	0.59
1:AA:566:G:H4'	1:AA:567:G:H5'	1.85	0.59
1:AA:575:G:O2'	1:AA:576:G:O5'	2.20	0.59
1:AA:580:U:H2'	1:AA:581:G:O4'	2.02	0.59
1:AA:692:U:O2	1:AA:694:A:H3'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:834:C:N4	1:AA:853:G:O6	2.36	0.59
1:AA:965:A:H8	1:AA:969:A:H1'	1.67	0.59
4:AE:17:PHE:HA	4:AE:42:ILE:CG2	2.33	0.59
5:AF:151:VAL:HG12	5:AF:152:ILE:N	2.18	0.59
5:AF:25:GLY:C	5:AF:28:GLN:HE21	2.06	0.59
6:AG:102:ASP:HB2	6:AG:136:PRO:HB3	1.85	0.59
6:AG:128:VAL:HA	6:AG:146:ILE:CG2	2.33	0.59
5:AF:131:ARG:HH12	7:AH:51:VAL:HG23	1.66	0.59
8:AI:91:VAL:HG12	8:AI:92:LYS:O	2.02	0.59
9:AJ:14:PRO:HB3	9:AJ:19:GLY:C	2.22	0.59
10:AK:60:ARG:CG	10:AK:61:VAL:N	2.63	0.59
10:AK:8:ASP:O	10:AK:11:THR:OG1	2.18	0.59
11:AL:38:GLN:HA	11:AL:38:GLN:OE1	2.02	0.59
1:AA:1228:C:H4'	15:AP:116:THR:CA	2.33	0.59
15:AP:90:LEU:HD23	15:AP:93:ARG:HD2	1.85	0.59
17:AR:32:LEU:CD2	17:AR:32:LEU:N	2.65	0.59
17:AR:40:SER:O	17:AR:41:GLU:C	2.40	0.59
20:AU:64:ARG:HH11	20:AU:64:ARG:HG3	1.68	0.59
1:AA:1225:A:C5'	21:AV:78:ARG:NH1	2.63	0.59
21:AV:9:VAL:HG12	21:AV:9:VAL:O	2.02	0.59
48:B1:14:VAL:O	48:B1:18:LYS:HG2	2.03	0.59
24:BA:988:A:N6	49:B2:13:ILE:HG13	2.17	0.59
51:B4:35:GLU:HB3	51:B4:49:CYS:HB3	1.84	0.59
52:B5:33:LYS:CE	52:B5:34:LEU:N	2.65	0.59
24:BA:1031:G:C2'	24:BA:1032:A:O5'	2.51	0.59
24:BA:1267:U:C4	24:BA:2012:G:N2	2.71	0.59
24:BA:1283:G:H22	24:BA:1286:A:C5'	2.16	0.59
24:BA:1309:G:H5''	53:B6:9:ARG:N	2.15	0.59
24:BA:1458:C:H4'	24:BA:1459:G:C5	2.38	0.59
24:BA:1476:C:H3'	24:BA:1477:A:C8	2.38	0.59
24:BA:1604:C:O2	24:BA:1605:C:C5	2.56	0.59
24:BA:1664:A:O5'	24:BA:1665:A:OP2	2.21	0.59
24:BA:1696:G:H2'	24:BA:1697:G:C8	2.37	0.59
24:BA:1754:C:O2	24:BA:1755:A:H1'	2.03	0.59
24:BA:1791:A:O2'	24:BA:1792:G:OP1	2.21	0.59
24:BA:2022:U:O2'	24:BA:2034:U:C2	2.56	0.59
24:BA:2466:C:H5'	55:B8:5:ALA:CB	2.33	0.59
24:BA:2519:U:C5'	24:BA:2520:C:OP1	2.47	0.59
24:BA:2682:U:H2'	24:BA:2683:C:O5'	2.03	0.59
24:BA:2690:C:H6	24:BA:2690:C:O5'	1.86	0.59
24:BA:278:A:H2'	24:BA:279:C:C6	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2839:G:C4	24:BA:2840:C:C6	2.91	0.59
24:BA:292:C:C6	24:BA:293:U:C4	2.91	0.59
24:BA:412:A:C2	24:BA:413:C:C1'	2.84	0.59
24:BA:447:A:O2'	24:BA:449:A:N6	2.36	0.59
24:BA:35:G:C4	24:BA:454:A:C2	2.91	0.59
24:BA:624:C:H6	24:BA:624:C:C3'	2.11	0.59
24:BA:653:A:H5'	24:BA:654:A:O2'	2.02	0.59
24:BA:71:A:O2'	24:BA:72:U:P	2.61	0.59
24:BA:742:G:H4'	24:BA:1675:C:O2'	2.03	0.59
24:BA:784:A:N7	24:BA:792:G:C4	2.70	0.59
24:BA:818:G:C2'	24:BA:819:A:H5''	2.32	0.59
24:BA:74:A:C8	24:BA:87:C:O2'	2.56	0.59
24:BA:917:A:H2	24:BA:918:A:N1	2.00	0.59
24:BA:988:A:H4'	24:BA:1155:A:H2	1.67	0.59
24:BA:997:G:OP2	24:BA:997:G:H8	1.84	0.59
25:BB:62:C:O2	25:BB:63:G:C8	2.55	0.59
27:BD:169:GLU:HG2	27:BD:184:LYS:NZ	2.17	0.59
24:BA:729:G:OP1	27:BD:19:ALA:HB1	2.03	0.59
27:BD:9:TYR:CE1	27:BD:200:ASP:OD2	2.55	0.59
28:BE:179:GLU:O	28:BE:181:LEU:N	2.35	0.59
28:BE:198:VAL:HG12	28:BE:200:GLU:CD	2.22	0.59
28:BE:20:ALA:C	28:BE:21:VAL:HG12	2.23	0.59
28:BE:49:LEU:CD1	28:BE:74:PRO:CB	2.73	0.59
24:BA:600:G:HO2'	29:BF:104:LYS:HG2	1.68	0.59
30:BG:181:ARG:CG	30:BG:182:LYS:H	2.06	0.59
30:BG:96:ARG:O	30:BG:100:TRP:CE3	2.56	0.59
31:BH:66:GLY:O	31:BH:69:ARG:HG3	2.03	0.59
33:BL:112:MET:HE1	33:BL:115:LEU:HG	1.84	0.59
33:BL:70:LYS:O	33:BL:71:THR:O	2.21	0.59
34:BM:17:ASP:O	34:BM:18:ALA:HB3	2.03	0.59
35:BN:47:ILE:HD12	35:BN:53:LYS:H	1.67	0.59
24:BA:1667:G:OP1	35:BN:7:TYR:HD1	1.84	0.59
37:BP:122:GLY:O	37:BP:123:HIS:C	2.40	0.59
38:BQ:61:HIS:O	38:BQ:62:ALA:C	2.41	0.59
39:BR:16:ASN:OD1	39:BR:20:ARG:HD3	2.03	0.59
39:BR:20:ARG:HA	39:BR:20:ARG:CZ	2.32	0.59
39:BR:77:ALA:O	39:BR:78:LEU:C	2.39	0.59
40:BS:11:GLU:HB3	40:BS:59:THR:CG2	2.32	0.59
40:BS:18:ASP:O	40:BS:19:LEU:C	2.41	0.59
41:BT:94:ASN:OD1	42:BU:13:ARG:CG	2.51	0.59
24:BA:2009:G:H4'	43:BV:40:ASN:ND2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:53:LYS:O	44:BW:81:VAL:HA	2.03	0.59
44:BW:25:LYS:HE2	44:BW:82:GLN:NE2	2.17	0.59
45:BX:33:LYS:CB	45:BX:35:TYR:CE2	2.82	0.59
45:BX:44:ILE:HG22	45:BX:44:ILE:O	2.03	0.59
32:BK:115:ALA:CB	32:BK:128:LEU:HD12	2.31	0.59
32:BK:78:THR:C	32:BK:79:ILE:HD12	2.22	0.59
32:BK:96:ASP:HA	32:BK:99:GLU:OE2	2.03	0.59
24:BA:2141:G:C6	24:BA:2151:G:C6	2.91	0.59
26:BC:103:ILE:HG12	26:BC:108:MET:HB2	1.84	0.59
25:BB:25:A:H2'	25:BB:26:A:C8	2.36	0.59
1:AA:772:U:O2'	1:AA:773:G:H5'	2.01	0.59
1:AA:524:G:O2'	1:AA:525:C:H5'	2.02	0.59
43:BV:45:TYR:HD2	43:BV:45:TYR:H	1.50	0.59
1:AA:1018:C:H2'	1:AA:1019:C:O4'	2.03	0.59
1:AA:1148:U:O2	1:AA:1149:C:C1'	2.51	0.59
1:AA:1250:A:C5	1:AA:1251:A:C5	2.91	0.59
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.66	0.59
1:AA:1429:C:C2	1:AA:1430:C:C5	2.91	0.59
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.33	0.59
1:AA:1533:C:H5'	1:AA:1534:A:OP1	2.03	0.59
1:AA:355:C:C4	1:AA:356:A:N7	2.71	0.59
1:AA:519:C:N4	1:AA:520:A:N3	2.50	0.59
1:AA:610:G:N2	1:AA:611:A:C1'	2.64	0.59
1:AA:719:C:H3'	1:AA:720:C:C6	2.36	0.59
1:AA:765:G:N2	1:AA:816:A:H2	2.00	0.59
1:AA:855:G:O5'	1:AA:871:U:O4	2.21	0.59
1:AA:89:U:O2'	1:AA:90:C:H5'	2.02	0.59
2:AC:14:A:N6	2:AC:15:G:C6	2.71	0.59
4:AE:116:GLU:CG	4:AE:117:GLU:N	2.66	0.59
4:AE:167:PRO:O	4:AE:169:LYS:N	2.35	0.59
4:AE:212:GLN:O	4:AE:213:LEU:C	2.41	0.59
4:AE:212:GLN:O	4:AE:216:SER:CB	2.50	0.59
4:AE:28:PHE:CE1	4:AE:31:TYR:HB3	2.37	0.59
5:AF:11:ARG:O	5:AF:12:LEU:C	2.41	0.59
1:AA:427:U:P	6:AG:41:GLY:HA2	2.43	0.59
6:AG:96:LEU:HD23	6:AG:139:ARG:NH2	2.16	0.59
7:AH:74:GLY:O	7:AH:115:VAL:HG12	2.02	0.59
10:AK:95:VAL:HB	10:AK:99:GLU:CD	2.23	0.59
12:AM:23:ILE:HG13	12:AM:85:LEU:CD2	2.32	0.59
12:AM:61:GLU:HG2	16:AQ:58:LYS:NZ	2.17	0.59
14:AO:85:ILE:HD11	14:AO:87:GLY:CA	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:14:ARG:HG2	15:AP:17:VAL:HG21	1.85	0.59
19:AT:28:PRO:HA	19:AT:35:VAL:HA	1.83	0.59
20:AU:52:PRO:HB2	20:AU:54:ARG:HB3	1.85	0.59
21:AV:64:GLU:HG2	21:AV:65:ASN:H	1.67	0.59
22:AW:26:ASN:ND2	22:AW:27:LYS:N	2.37	0.59
23:AX:14:TRP:HZ3	23:AX:15:ARG:NE	2.00	0.59
48:B1:26:GLU:O	48:B1:29:GLU:HB2	2.03	0.59
24:BA:96:G:C4'	48:B1:43:HIS:CE1	2.86	0.59
53:B6:11:LYS:HA	53:B6:14:LYS:HB2	1.85	0.59
53:B6:21:ARG:NH1	53:B6:44:PRO:CB	2.66	0.59
54:B7:60:LEU:O	54:B7:62:LEU:N	2.36	0.59
24:BA:1023:U:N3	24:BA:1024:G:O2'	2.33	0.59
24:BA:1123:C:H2'	24:BA:1124:C:H6	1.67	0.59
24:BA:112:U:OP2	24:BA:112:U:H6	1.86	0.59
24:BA:1188:U:C2	24:BA:1189:A:C8	2.91	0.59
24:BA:1231:G:H2'	24:BA:1232:G:C8	2.38	0.59
24:BA:1315:C:H2'	24:BA:1316:U:H6	1.67	0.59
24:BA:1321:A:C2'	24:BA:1321:A:N3	2.64	0.59
24:BA:1471:A:N6	24:BA:1473:G:C8	2.70	0.59
24:BA:1521:G:C3'	24:BA:1522:G:H5'	2.29	0.59
24:BA:1567:A:N1	27:BD:86:PRO:HG3	2.18	0.59
24:BA:1668:A:C8	24:BA:1674:G:C5	2.90	0.59
24:BA:1691:C:H2'	24:BA:1692:U:O5'	2.03	0.59
24:BA:1772:G:N3	24:BA:1980:G:N2	2.50	0.59
24:BA:1676:A:H2	24:BA:1993:U:C5'	2.14	0.59
24:BA:2285:C:O4'	24:BA:2288:A:N6	2.36	0.59
24:BA:251:A:H2'	24:BA:252:G:O5'	2.01	0.59
24:BA:2687:U:C2'	24:BA:2687:U:O2	2.48	0.59
24:BA:281:G:C2'	24:BA:281:G:N3	2.66	0.59
24:BA:2840:C:O2'	24:BA:2841:C:H5'	2.02	0.59
24:BA:415:A:C2	24:BA:416:C:H1'	2.38	0.59
24:BA:630:G:H2'	24:BA:632:A:OP2	2.03	0.59
24:BA:740:U:O2'	24:BA:741:G:P	2.61	0.59
24:BA:95:G:O5'	48:B1:39:LEU:HB3	2.03	0.59
24:BA:569:U:O2'	24:BA:983:A:N1	2.34	0.59
25:BB:112:G:H3'	25:BB:113:C:H6	1.66	0.59
25:BB:63:G:H2'	25:BB:64:C:C5	2.38	0.59
27:BD:246:PRO:HG2	27:BD:250:TRP:HB2	1.83	0.59
27:BD:181:GLU:HA	27:BD:270:ILE:CG2	2.32	0.59
27:BD:37:LEU:HD21	27:BD:63:ARG:HA	1.85	0.59
27:BD:46:GLN:CD	27:BD:52:ARG:NH1	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1568:G:H5'	27:BD:61:LEU:CA	2.33	0.59
28:BE:4:ILE:O	28:BE:27:LEU:CD1	2.46	0.59
29:BF:110:LEU:HD23	29:BF:110:LEU:C	2.24	0.59
29:BF:133:ASN:HD22	29:BF:162:LEU:HD22	1.67	0.59
29:BF:138:GLU:HG2	29:BF:139:PHE:H	1.68	0.59
29:BF:149:ASP:OD1	29:BF:151:SER:HB3	2.02	0.59
29:BF:163:VAL:O	29:BF:167:ALA:CB	2.51	0.59
29:BF:24:LEU:N	29:BF:25:PRO:HD2	2.18	0.59
24:BA:660:G:H4'	29:BF:99:TYR:OH	2.02	0.59
31:BH:149:ARG:N	31:BH:162:ILE:HD13	2.18	0.59
33:BL:54:PRO:CD	33:BL:72:PRO:HA	2.33	0.59
35:BN:32:TYR:CD2	35:BN:32:TYR:N	2.71	0.59
35:BN:63:VAL:CG1	35:BN:99:PHE:CE1	2.75	0.59
36:BO:96:THR:C	36:BO:102:ARG:HD3	2.22	0.59
36:BO:114:ILE:HD13	36:BO:129:ALA:O	2.02	0.59
37:BP:109:VAL:HG11	37:BP:114:ALA:HB2	1.84	0.59
38:BQ:103:ARG:HA	38:BQ:109:ALA:O	2.03	0.59
38:BQ:41:ALA:O	38:BQ:42:LYS:C	2.37	0.59
39:BR:53:SER:O	39:BR:55:ALA:N	2.35	0.59
40:BS:29:ARG:CG	40:BS:51:ARG:HG2	2.24	0.59
41:BT:104:GLN:O	41:BT:107:ALA:HB3	2.03	0.59
41:BT:65:ILE:O	41:BT:66:ASN:C	2.41	0.59
42:BU:33:VAL:O	42:BU:63:GLY:HA2	2.02	0.59
42:BU:78:LYS:HZ2	42:BU:84:LYS:HG3	1.67	0.59
42:BU:78:LYS:NZ	42:BU:84:LYS:HG3	2.18	0.59
43:BV:28:SER:O	43:BV:29:LEU:C	2.40	0.59
47:BZ:29:GLN:O	47:BZ:67:VAL:HG23	2.03	0.59
47:BZ:76:GLY:O	47:BZ:78:TYR:CD1	2.55	0.59
32:BK:77:LEU:CD1	32:BK:140:LEU:HB3	2.30	0.59
24:BA:2169:A:N3	24:BA:2169:A:H2'	2.17	0.59
26:BC:97:GLU:HB3	26:BC:126:LYS:HZ2	1.68	0.59
1:AA:1004:A:H2'	1:AA:1036:G:O6	2.03	0.59
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.37	0.59
24:BA:2105:C:H2'	24:BA:2106:G:C8	2.38	0.59
24:BA:2373:G:HO2'	24:BA:2374:C:C5'	2.15	0.59
1:AA:1087:G:N2	1:AA:1099:G:C4	2.71	0.59
1:AA:1438:G:C5	1:AA:1439:C:C5	2.91	0.59
1:AA:190:G:C8	1:AA:190:G:OP1	2.55	0.59
1:AA:452:A:N6	1:AA:480:U:C2	2.71	0.59
1:AA:482:A:C2'	1:AA:482:A:N3	2.65	0.59
1:AA:517:G:H5'	1:AA:519:C:N4	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:620:C:C2'	1:AA:621:A:H5'	2.33	0.59
1:AA:649:G:H2'	1:AA:650:G:H8	1.67	0.59
1:AA:862:C:O4'	1:AA:874:G:H4'	2.03	0.59
1:AA:909:A:H2'	1:AA:910:C:C5'	2.32	0.59
1:AA:915:A:H2'	1:AA:916:G:C5'	2.31	0.59
4:AE:178:ARG:HD2	4:AE:184:VAL:HG11	1.84	0.59
4:AE:35:GLU:OE2	4:AE:36:ARG:O	2.21	0.59
5:AF:49:SER:C	5:AF:51:GLY:N	2.53	0.59
6:AG:158:ILE:HG22	6:AG:162:LEU:CG	2.33	0.59
10:AK:118:VAL:O	10:AK:119:LEU:HD13	2.02	0.59
10:AK:100:ILE:HD13	10:AK:125:ARG:NE	2.16	0.59
10:AK:40:ALA:N	10:AK:45:ILE:CG2	2.66	0.59
11:AL:11:LYS:N	11:AL:104:ARG:HH21	2.00	0.59
12:AM:49:VAL:O	12:AM:60:ARG:CA	2.51	0.59
1:AA:1329:A:H5''	15:AP:29:ARG:NE	2.18	0.59
16:AQ:10:ALA:HA	16:AQ:12:ARG:HE	1.67	0.59
16:AQ:3:ARG:CG	16:AQ:3:ARG:O	2.51	0.59
18:AS:43:LYS:HG3	18:AS:48:TRP:CE3	2.38	0.59
18:AS:51:VAL:CG2	18:AS:73:LEU:HD11	2.33	0.59
19:AT:29:HIS:CG	19:AT:32:TYR:HB2	2.38	0.59
21:AV:30:LEU:CD1	21:AV:59:PRO:HB3	2.33	0.59
1:AA:194:C:H4'	22:AW:68:LYS:HE2	1.85	0.59
50:B3:5:ILE:HG12	50:B3:57:GLU:HG3	1.83	0.59
24:BA:2230:G:N9	50:B3:58:ARG:NH2	2.51	0.59
53:B6:25:PRO:CA	53:B6:28:ARG:NH2	2.66	0.59
53:B6:18:PHE:HZ	53:B6:45:ALA:HB2	1.68	0.59
54:B7:56:GLU:O	54:B7:59:LYS:HB2	2.02	0.59
24:BA:1134:G:C5	24:BA:1136:G:OP2	2.55	0.59
24:BA:1422:G:N3	24:BA:1423:G:C8	2.71	0.59
24:BA:1467:C:N4	24:BA:1524:G:O6	2.35	0.59
24:BA:1533:C:N3	24:BA:1539:G:N2	2.50	0.59
24:BA:1571:A:H2'	24:BA:1571:A:N3	2.17	0.59
24:BA:1639:U:H2'	24:BA:1640:C:H5'	1.84	0.59
24:BA:1676:A:C2	24:BA:1993:U:H5'	2.34	0.59
24:BA:2052:G:O2'	24:BA:2053:G:H5'	2.03	0.59
24:BA:2085:C:H2'	24:BA:2086:U:C5'	2.32	0.59
24:BA:2256:G:N2	24:BA:2275:C:H41	1.99	0.59
24:BA:2378:A:H2'	39:BR:20:ARG:HH12	1.65	0.59
24:BA:2415:G:C6	24:BA:2416:C:N4	2.71	0.59
24:BA:2432:A:N7	24:BA:2433:A:C5	2.71	0.59
24:BA:2063:C:C2	24:BA:2450:A:N6	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2448:A:OP1	24:BA:2498:C:O5'	2.21	0.59
24:BA:253:C:H2'	24:BA:254:G:C5'	2.33	0.59
24:BA:2644:G:H1	24:BA:2645:G:N2	1.98	0.59
24:BA:2748:A:N7	24:BA:2749:A:C6	2.70	0.59
24:BA:332:A:C4	24:BA:335:C:C5	2.91	0.59
24:BA:411:G:O5'	24:BA:411:G:H8	1.86	0.59
24:BA:604:G:C2'	24:BA:605:C:O5'	2.49	0.59
24:BA:660:G:H5''	29:BF:99:TYR:CZ	2.37	0.59
24:BA:665:C:H2'	24:BA:666:G:C8	2.37	0.59
24:BA:675:A:N9	24:BA:676:A:C2	2.66	0.59
24:BA:805:G:C5	24:BA:2068:U:OP1	2.55	0.59
24:BA:819:A:C8	24:BA:1189:A:N6	2.71	0.59
24:BA:881:G:C4	24:BA:882:G:C8	2.91	0.59
24:BA:956:G:C8	24:BA:956:G:H3'	2.37	0.59
25:BB:44:G:H21	25:BB:48:A:H1'	1.68	0.59
25:BB:66:A:H2	25:BB:108:C:C6	2.20	0.59
27:BD:122:ASP:O	27:BD:123:ALA:O	2.20	0.59
28:BE:200:GLU:CB	28:BE:202:LYS:NZ	2.66	0.59
28:BE:4:ILE:HD12	28:BE:4:ILE:C	2.23	0.59
28:BE:50:GLY:CA	28:BE:76:ARG:NE	2.66	0.59
30:BG:34:LEU:H	30:BG:34:LEU:CD1	2.03	0.59
30:BG:47:LYS:HE3	30:BG:49:ASP:CG	2.24	0.59
31:BH:77:LYS:O	31:BH:80:SER:OG	2.15	0.59
31:BH:98:LEU:HD22	31:BH:100:GLY:H	1.68	0.59
32:BK:25:TYR:O	32:BK:29:TYR:CB	2.50	0.59
35:BN:8:LEU:HD11	35:BN:19:ILE:HD12	1.82	0.59
35:BN:86:ILE:HG23	35:BN:90:GLN:C	2.22	0.59
36:BO:112:LEU:H	36:BO:128:HIS:HE1	1.45	0.59
36:BO:114:ILE:HG21	36:BO:123:LEU:CD2	2.31	0.59
36:BO:112:LEU:CB	36:BO:128:HIS:HE1	2.15	0.59
36:BO:57:THR:O	36:BO:58:THR:OG1	2.14	0.59
38:BQ:116:LEU:O	38:BQ:116:LEU:CD1	2.51	0.59
39:BR:11:LYS:HZ1	39:BR:15:ARG:NH1	2.00	0.59
39:BR:58:LEU:HD23	39:BR:62:LYS:HG3	1.84	0.59
40:BS:35:LYS:HG3	40:BS:84:GLN:O	2.03	0.59
41:BT:8:VAL:HA	41:BT:11:ARG:CZ	2.32	0.59
45:BX:37:VAL:O	45:BX:39:VAL:HG23	2.02	0.59
46:BY:99:TYR:HB2	46:BY:126:VAL:HG13	1.84	0.59
46:BY:116:VAL:HG22	46:BY:180:VAL:O	2.02	0.59
46:BY:39:VAL:HG22	46:BY:44:PHE:CZ	2.38	0.59
3:AD:19:G:C6	3:AD:56:C:N3	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:216:THR:O	26:BC:217:THR:O	2.21	0.59
1:AA:1003:G:N1	1:AA:1004:A:H1'	2.17	0.59
24:BA:2193:G:C4	24:BA:2194:G:C8	2.91	0.59
1:AA:1029:G:H1'	1:AA:1032:A:N6	2.18	0.59
21:AV:28:LYS:O	21:AV:29:ARG:HB2	2.02	0.59
1:AA:1157:A:O4'	1:AA:1158:C:N3	2.36	0.58
1:AA:1198:G:O2'	12:AM:54:PHE:HE2	1.86	0.58
1:AA:1287:A:C6	1:AA:1288:A:N6	2.71	0.58
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.68	0.58
1:AA:1399:C:H42	1:AA:1504:G:H1	1.51	0.58
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.01	0.58
1:AA:179:A:H3'	1:AA:180:U:C5	2.38	0.58
1:AA:198:G:H2'	1:AA:199:G:O5'	2.02	0.58
1:AA:450:G:O6	1:AA:481:G:H2'	2.03	0.58
1:AA:521:G:OP2	14:AO:54:LYS:NZ	2.30	0.58
1:AA:538:G:O3'	14:AO:114:LYS:CE	2.51	0.58
1:AA:27:G:H22	1:AA:557:G:H1'	1.67	0.58
1:AA:56:U:H2'	1:AA:57:G:H8	1.68	0.58
1:AA:673:G:C6	1:AA:734:G:C6	2.91	0.58
2:AC:18:G:C2	2:AC:58:A:C4	2.90	0.58
4:AE:48:MET:SD	4:AE:48:MET:N	2.76	0.58
5:AF:146:ALA:O	5:AF:147:LYS:HD2	2.03	0.58
5:AF:186:PHE:CA	5:AF:198:VAL:O	2.49	0.58
5:AF:189:ALA:CB	5:AF:196:LEU:HG	2.31	0.58
6:AG:200:GLU:HG3	6:AG:201:GLN:N	2.18	0.58
6:AG:203:VAL:O	6:AG:206:PHE:HB3	2.03	0.58
6:AG:60:GLU:HA	6:AG:63:LYS:HD2	1.85	0.58
7:AH:19:MET:SD	7:AH:20:GLN:N	2.76	0.58
7:AH:94:ALA:HB1	7:AH:98:THR:HG21	1.85	0.58
8:AI:75:LEU:O	8:AI:75:LEU:HD23	2.03	0.58
8:AI:96:PRO:HD2	20:AU:32:ARG:HE	1.66	0.58
12:AM:5:ARG:O	12:AM:98:ILE:HG23	2.03	0.58
1:AA:691:G:N2	13:AN:51:LYS:HZ1	1.99	0.58
13:AN:84:VAL:HG22	13:AN:110:ASP:HA	1.85	0.58
14:AO:47:LYS:N	14:AO:48:PRO:CD	2.65	0.58
14:AO:33:ARG:HB3	14:AO:85:ILE:CG2	2.33	0.58
12:AM:50:ILE:H	16:AQ:41:ARG:HD2	1.66	0.58
5:AF:40:ARG:NH1	16:AQ:52:GLN:HB3	2.18	0.58
5:AF:18:TRP:HZ2	16:AQ:55:GLY:O	1.85	0.58
17:AR:33:THR:O	17:AR:36:ILE:HG22	2.03	0.58
17:AR:67:LEU:O	17:AR:70:LEU:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:4:ILE:HG12	18:AS:66:PRO:CB	2.33	0.58
18:AS:6:LEU:HD13	18:AS:6:LEU:H	1.66	0.58
19:AT:58:GLU:OE1	19:AT:74:LEU:HD12	2.03	0.58
19:AT:75:ARG:CZ	19:AT:77:VAL:HG22	2.33	0.58
8:AI:95:GLU:C	20:AU:32:ARG:HG3	2.23	0.58
22:AW:37:SER:O	22:AW:40:ALA:HB3	2.03	0.58
1:AA:1243:C:OP2	23:AX:10:ARG:CZ	2.51	0.58
1:AA:1268:A:H4'	23:AX:20:LYS:HB2	1.85	0.58
48:B1:59:LEU:HD11	48:B1:63:ARG:CD	2.33	0.58
50:B3:65:ASP:HA	50:B3:68:ARG:HH22	1.68	0.58
52:B5:25:LYS:O	52:B5:26:ASN:HB2	2.03	0.58
24:BA:125:G:O3'	53:B6:47:ARG:NH1	2.36	0.58
54:B7:62:LEU:C	54:B7:62:LEU:HD13	2.23	0.58
24:BA:1185:C:H5''	24:BA:1186:G:OP1	2.03	0.58
24:BA:1287:A:H2'	24:BA:1287:A:N3	2.18	0.58
24:BA:1296:G:H2'	24:BA:1297:C:H6	1.67	0.58
24:BA:141:A:N1	24:BA:141(A):C:O4'	2.36	0.58
24:BA:1458:C:H4'	24:BA:1459:G:C4	2.38	0.58
24:BA:1528:A:C2	24:BA:1545:A:N6	2.70	0.58
24:BA:2312:U:HO2'	30:BG:40:ASN:CG	2.02	0.58
24:BA:2333:A:H2'	24:BA:2333:A:N3	2.17	0.58
24:BA:2654:A:O4'	24:BA:2656:U:C5	2.55	0.58
24:BA:270:A:N7	24:BA:270(A):A:H8	2.01	0.58
24:BA:270(P):C:O5'	24:BA:270(P):C:H6	1.85	0.58
24:BA:2768:C:O2'	24:BA:2769:C:H5'	2.02	0.58
24:BA:404:C:H5''	24:BA:406:G:O4'	2.01	0.58
24:BA:479:A:N3	24:BA:480:A:N7	2.51	0.58
24:BA:609(A):G:C8	24:BA:610:C:C5	2.91	0.58
24:BA:616:A:O2'	24:BA:617:G:C1'	2.51	0.58
24:BA:76:C:O2'	48:B1:54:ARG:HA	2.03	0.58
24:BA:881:G:C2	24:BA:882:G:H1'	2.38	0.58
27:BD:128:GLY:H	27:BD:193:VAL:CG1	2.16	0.58
27:BD:31:LYS:HD3	27:BD:83:GLU:HB3	1.85	0.58
30:BG:110:ALA:HB1	30:BG:139:LEU:HG	1.85	0.58
30:BG:78:SER:CB	30:BG:82:LEU:HG	2.17	0.58
30:BG:44:GLY:CA	30:BG:88:ILE:HG21	2.33	0.58
31:BH:7:LEU:HB3	31:BH:65:HIS:CE1	2.38	0.58
32:BK:33:ARG:HB2	32:BK:35:LEU:CD2	2.32	0.58
33:BL:105:LEU:HG	33:BL:124:ALA:HB2	1.85	0.58
34:BM:12:ARG:NH1	34:BM:48:MET:HG3	2.18	0.58
34:BM:12:ARG:HH12	34:BM:48:MET:HE2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:12:ARG:NH1	34:BM:48:MET:HE3	2.18	0.58
34:BM:70:LYS:CD	34:BM:86:PRO:HA	2.28	0.58
35:BN:105:GLU:C	35:BN:111:PHE:CZ	2.71	0.58
35:BN:6:THR:CG2	35:BN:7:TYR:N	2.66	0.58
36:BO:96:THR:HG1	36:BO:102:ARG:HD3	1.68	0.58
36:BO:123:LEU:CA	36:BO:138:LEU:HA	2.33	0.58
37:BP:34:LEU:HD11	37:BP:67:ARG:HH22	1.67	0.58
37:BP:45:GLN:CA	37:BP:48:GLU:HG2	2.30	0.58
37:BP:62:GLY:N	46:BY:177:PRO:HB2	2.17	0.58
24:BA:2851:A:H1'	38:BQ:61:HIS:CD2	2.37	0.58
38:BQ:79:LEU:HD23	38:BQ:80:PHE:CA	2.32	0.58
39:BR:11:LYS:CB	39:BR:11:LYS:NZ	2.64	0.58
40:BS:28:VAL:HG13	40:BS:92:GLY:CA	2.33	0.58
40:BS:65:LYS:HD3	40:BS:75:ILE:HD13	1.85	0.58
41:BT:115:ALA:O	41:BT:118:GLY:N	2.35	0.58
41:BT:20:LEU:HB3	41:BT:39:LEU:CD1	2.33	0.58
42:BU:14:VAL:HG11	42:BU:19:LYS:HG2	1.85	0.58
43:BV:20:VAL:CG1	43:BV:47:VAL:HG11	2.33	0.58
44:BW:27:THR:CG2	44:BW:80:ILE:HD12	2.33	0.58
45:BX:75:ILE:HG23	45:BX:75:ILE:O	2.03	0.58
45:BX:97:ARG:HG2	45:BX:101:LYS:CG	2.33	0.58
37:BP:108:GLY:HA3	46:BY:117:LEU:HD22	1.84	0.58
47:BZ:46:LYS:HE2	47:BZ:77:ARG:H	1.66	0.58
24:BA:2155:G:H2'	24:BA:2155:G:N3	2.17	0.58
26:BC:32:LEU:HD22	26:BC:220:PRO:CG	2.32	0.58
1:AA:1377:A:O2'	1:AA:1378:C:P	2.61	0.58
1:AA:1483:A:H3'	1:AA:1484:C:C6	2.38	0.58
1:AA:1530:G:C6	1:AA:1531:A:C4	2.91	0.58
1:AA:1533:C:H4'	1:AA:1534:A:OP1	2.03	0.58
1:AA:1540:U:O2'	1:AA:1541:U:H5'	2.03	0.58
1:AA:16:A:H1'	7:AH:17:ALA:HB3	1.85	0.58
1:AA:198:G:C2'	1:AA:199:G:O5'	2.52	0.58
1:AA:22:G:H2'	1:AA:23:C:O4'	2.03	0.58
1:AA:478:A:H8	1:AA:478:A:O5'	1.86	0.58
1:AA:47:C:O2'	1:AA:48:C:OP2	2.20	0.58
1:AA:518:C:O2'	1:AA:519:C:P	2.60	0.58
1:AA:600:C:H2'	1:AA:601:C:C6	2.36	0.58
1:AA:857:C:H2'	1:AA:858:G:O4'	2.03	0.58
2:AC:44:A:C2	2:AC:45:G:C1'	2.85	0.58
4:AE:16:HIS:HA	4:AE:204:ASN:HB3	1.85	0.58
4:AE:80:ILE:HD11	4:AE:212:GLN:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:54:TYR:O	6:AG:55:ALA:C	2.41	0.58
7:AH:81:GLU:CB	7:AH:90:VAL:HG23	2.34	0.58
8:AI:23:LYS:O	8:AI:26:ILE:CB	2.45	0.58
9:AJ:2:ALA:HB1	9:AJ:5:ARG:HH12	1.66	0.58
10:AK:113:SER:HA	10:AK:117:GLY:O	2.03	0.58
10:AK:120:THR:H	10:AK:123:GLU:CD	2.07	0.58
12:AM:27:ALA:HB1	12:AM:81:THR:CG2	2.33	0.58
14:AO:85:ILE:HG13	14:AO:87:GLY:H	1.68	0.58
17:AR:15:PHE:O	17:AR:17:ARG:N	2.36	0.58
19:AT:5:VAL:CG1	19:AT:6:LEU:H	2.16	0.58
21:AV:11:VAL:HG12	21:AV:16:LEU:HD11	1.84	0.58
22:AW:67:ALA:O	22:AW:68:LYS:O	2.21	0.58
22:AW:86:ARG:CG	22:AW:87:LYS:N	2.66	0.58
24:BA:96:G:H4'	48:B1:43:HIS:NE2	2.17	0.58
24:BA:988:A:H62	49:B2:13:ILE:HD12	1.68	0.58
52:B5:8:LYS:HG2	52:B5:29:ASN:CA	2.33	0.58
54:B7:21:LYS:HG2	54:B7:48:PHE:CE1	2.39	0.58
24:BA:1029:A:H2'	24:BA:1030:G:H5'	1.85	0.58
24:BA:1055:G:N3	24:BA:1084:A:N3	2.52	0.58
24:BA:1326:U:H2'	24:BA:1327:C:O4'	2.02	0.58
24:BA:1471:A:OP2	24:BA:1472:A:C2	2.55	0.58
24:BA:1529:A:H8	24:BA:1530:G:C8	2.21	0.58
24:BA:1602:U:H6	24:BA:1603:A:O5'	1.86	0.58
24:BA:1681:G:H2'	24:BA:1682:G:OP1	2.03	0.58
24:BA:1685:C:C2'	24:BA:1686:C:O5'	2.51	0.58
24:BA:1803:A:H5''	27:BD:257:LEU:HB3	1.85	0.58
24:BA:1804:C:H2'	24:BA:1805:U:C6	2.38	0.58
24:BA:1904:G:H2'	24:BA:1905:C:O5'	2.03	0.58
24:BA:1943:U:H4'	24:BA:1944:U:H5'	1.84	0.58
24:BA:2032:G:OP1	24:BA:2454:G:N2	2.35	0.58
24:BA:2043:C:C2'	24:BA:2044:C:O5'	2.51	0.58
24:BA:2266:A:H1'	24:BA:2272:U:C5	2.36	0.58
24:BA:270(J):G:C6	24:BA:270(K):C:C4	2.91	0.58
24:BA:2856:C:H2'	24:BA:2857:G:C5'	2.32	0.58
24:BA:477:A:C2'	24:BA:478:A:C8	2.83	0.58
24:BA:52:A:C4	24:BA:53:A:N7	2.71	0.58
24:BA:48:G:H4'	24:BA:52:A:H1'	1.84	0.58
24:BA:851:U:O2'	49:B2:46:ASN:N	2.36	0.58
24:BA:885:C:N4	24:BA:889:C:H1'	2.17	0.58
24:BA:965:C:H2'	24:BA:966:G:O4'	2.02	0.58
24:BA:989:G:H2'	24:BA:990:A:OP2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:32:C:H3'	25:BB:33:G:C8	2.35	0.58
25:BB:52:A:N3	25:BB:53:A:O4'	2.36	0.58
24:BA:861:A:H2	25:BB:79:C:H1'	1.68	0.58
27:BD:5:LYS:HB2	27:BD:82:ILE:HB	1.85	0.58
29:BF:158:THR:CB	29:BF:196:LEU:H	2.16	0.58
29:BF:33:LEU:HD12	29:BF:34:TRP:H	1.67	0.58
30:BG:131:TYR:HB2	30:BG:159:VAL:CG2	2.30	0.58
30:BG:47:LYS:HD2	30:BG:49:ASP:N	2.17	0.58
30:BG:61:ALA:HB2	30:BG:67:LYS:HE2	1.84	0.58
31:BH:45:VAL:HG22	31:BH:50:VAL:CG1	2.25	0.58
31:BH:87:LEU:CD1	31:BH:162:ILE:HD11	2.32	0.58
34:BM:27:ALA:O	34:BM:28:THR:C	2.41	0.58
34:BM:33:LEU:CD1	34:BM:52:VAL:HG11	2.32	0.58
35:BN:111:PHE:CD1	35:BN:111:PHE:C	2.76	0.58
35:BN:40:VAL:O	35:BN:40:VAL:HG13	2.02	0.58
35:BN:15:GLY:CA	35:BN:52:VAL:HG11	2.32	0.58
39:BR:41:ASP:CG	39:BR:42:ASP:H	2.04	0.58
40:BS:48:ILE:HG21	40:BS:50:ILE:HD11	1.85	0.58
40:BS:67:SER:CB	40:BS:105:LEU:HD11	2.33	0.58
41:BT:111:GLU:HA	41:BT:114:LYS:HE3	1.85	0.58
41:BT:112:ARG:HH22	42:BU:49:THR:HG23	1.68	0.58
42:BU:43:GLU:H	42:BU:44:LYS:NZ	2.00	0.58
43:BV:104:THR:O	43:BV:104:THR:HG23	2.02	0.58
43:BV:20:VAL:HG21	43:BV:47:VAL:HG11	1.85	0.58
43:BV:74:ALA:CB	43:BV:105:VAL:CG2	2.79	0.58
44:BW:8:ILE:C	44:BW:9:LEU:CG	2.72	0.58
45:BX:97:ARG:NE	45:BX:101:LYS:HG2	2.17	0.58
45:BX:88:LYS:HB3	45:BX:91:GLU:OE2	2.02	0.58
46:BY:102:LEU:CD2	46:BY:137:ILE:HB	2.33	0.58
46:BY:153:SER:O	46:BY:155:LEU:N	2.36	0.58
46:BY:51:ALA:C	46:BY:53:ILE:H	2.00	0.58
25:BB:12:C:OP2	47:BZ:74:ARG:HD2	2.03	0.58
32:BK:115:ALA:CB	32:BK:129:THR:O	2.51	0.58
3:AD:60:U:C2'	3:AD:61:C:OP1	2.51	0.58
3:AD:60:U:C6	3:AD:60:U:O5'	2.56	0.58
24:BA:2171:A:C2	24:BA:2172:U:O2	2.56	0.58
26:BC:62:VAL:HG13	26:BC:64:LEU:HD21	1.85	0.58
44:BW:19:ALA:O	44:BW:22:ALA:HB3	2.03	0.58
1:AA:1065:U:O2'	1:AA:1066:C:P	2.61	0.58
1:AA:1158:C:C4	1:AA:1160:G:H1'	2.37	0.58
1:AA:1191:A:N3	1:AA:1191:A:H2'	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:130:A:H2	1:AA:263:A:C2	2.21	0.58
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.39	0.58
1:AA:1466:C:H3'	1:AA:1467:G:C8	2.38	0.58
1:AA:597:G:C4	1:AA:644:G:C2	2.91	0.58
1:AA:724:G:H21	1:AA:725:G:H1'	1.69	0.58
1:AA:745:C:OP1	1:AA:851:G:O2'	2.15	0.58
1:AA:77:C:H2'	1:AA:78:G:O4'	2.03	0.58
1:AA:858:G:N1	1:AA:869:G:H3'	2.15	0.58
1:AA:895:G:H2'	1:AA:896:C:C6	2.38	0.58
1:AA:900:A:C5	1:AA:901:A:N7	2.71	0.58
1:AA:978:A:H8	1:AA:978:A:H3'	1.68	0.58
4:AE:15:VAL:HG21	4:AE:209:ARG:CB	2.31	0.58
4:AE:71:VAL:HG22	4:AE:93:VAL:H	1.67	0.58
5:AF:110:ASN:ND2	5:AF:141:VAL:HA	2.19	0.58
1:AA:1109:C:OP1	5:AF:176:HIS:CE1	2.56	0.58
6:AG:36:ARG:HB3	6:AG:38:TYR:CZ	2.38	0.58
9:AJ:72:ARG:HB3	9:AJ:72:ARG:NH1	2.11	0.58
10:AK:85:ARG:HD2	10:AK:135:CYS:HB2	1.85	0.58
10:AK:36:LEU:O	10:AK:39:LEU:CB	2.52	0.58
12:AM:59:SER:O	12:AM:60:ARG:O	2.21	0.58
18:AS:19:ILE:HG13	18:AS:38:TYR:CA	2.34	0.58
18:AS:58:TYR:HD1	18:AS:59:TRP:N	2.01	0.58
22:AW:72:LEU:HD22	22:AW:76:ALA:CB	2.33	0.58
49:B2:37:LEU:C	49:B2:37:LEU:HD23	2.23	0.58
50:B3:5:ILE:CG1	50:B3:57:GLU:HG3	2.33	0.58
50:B3:5:ILE:HD11	50:B3:10:VAL:HB	1.84	0.58
50:B3:58:ARG:C	50:B3:61:ARG:HB2	2.23	0.58
50:B3:64:GLY:C	50:B3:68:ARG:NH2	2.56	0.58
24:BA:16:G:H5''	51:B4:17:ASP:HB3	1.84	0.58
24:BA:126:A:C5'	53:B6:47:ARG:HH12	2.15	0.58
24:BA:1013:C:H2'	24:BA:1014:U:O4'	2.03	0.58
24:BA:1055:G:C8	24:BA:1055:G:H3'	2.38	0.58
24:BA:1100:C:C2	24:BA:1101:U:C5	2.91	0.58
24:BA:1107:G:C2'	24:BA:1108:U:H5'	2.33	0.58
24:BA:1181:C:N4	24:BA:1182:A:N6	2.51	0.58
24:BA:1202:C:H41	24:BA:1241:A:N6	2.01	0.58
24:BA:126:A:OP1	53:B6:18:PHE:HD1	1.85	0.58
24:BA:1373:A:C8	24:BA:1374:G:N7	2.71	0.58
24:BA:1539:G:C8	24:BA:1540:G:N7	2.71	0.58
24:BA:1550:C:C2	24:BA:1551:C:C5	2.90	0.58
24:BA:1608:A:C4	24:BA:1611:C:C5	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1613:G:H3'	24:BA:1617:C:H41	1.69	0.58
24:BA:1650:G:O2'	24:BA:1651:G:P	2.60	0.58
24:BA:2307:G:H2'	24:BA:2308:G:O4'	2.03	0.58
24:BA:2650:U:H2'	24:BA:2651:C:H6	1.69	0.58
24:BA:2691:C:O4'	24:BA:2872:G:C5	2.56	0.58
24:BA:2815:C:H2'	24:BA:2816:C:C6	2.38	0.58
24:BA:2875:C:H4'	40:BS:4:GLY:H	1.66	0.58
24:BA:323:G:C2	24:BA:333:G:C1'	2.83	0.58
24:BA:216:A:N6	24:BA:432:A:C4	2.72	0.58
24:BA:531:C:H5'	24:BA:532:A:N3	2.17	0.58
24:BA:524:U:H4'	24:BA:554:U:H4'	1.85	0.58
24:BA:605:C:C6	24:BA:605:C:OP2	2.56	0.58
24:BA:763:G:O2'	24:BA:764:A:H5''	2.03	0.58
24:BA:928:G:C2'	24:BA:929:G:H5'	2.31	0.58
24:BA:974:G:C8	24:BA:974(A):C:C5	2.91	0.58
27:BD:122:ASP:CA	27:BD:131:LEU:HD21	2.33	0.58
27:BD:122:ASP:HA	27:BD:135:PHE:CD2	2.39	0.58
27:BD:204:ILE:HG13	27:BD:205:VAL:N	2.09	0.58
28:BE:149:ARG:CD	28:BE:149:ARG:C	2.68	0.58
29:BF:78:ILE:HG12	29:BF:83:PHE:CZ	2.37	0.58
29:BF:9:ILE:HG21	29:BF:124:LEU:CB	2.34	0.58
15:AP:3:ARG:NH2	30:BG:140:ILE:HB	2.18	0.58
30:BG:163:ALA:HB1	30:BG:169:ALA:N	2.18	0.58
31:BH:7:LEU:O	31:BH:51:ARG:CZ	2.51	0.58
32:BK:21:VAL:CB	32:BK:26:ALA:HB2	2.29	0.58
32:BK:4:ILE:HG12	32:BK:38:LEU:HA	1.83	0.58
33:BL:101:TRP:O	33:BL:104:VAL:HB	2.02	0.58
33:BL:17:ALA:CB	33:BL:38:VAL:HG13	2.31	0.58
33:BL:45:THR:HG22	33:BL:48:MET:CE	2.33	0.58
34:BM:107:LEU:HD21	34:BM:113:GLY:CA	2.33	0.58
34:BM:58:ASP:N	34:BM:124:ALA:HB1	2.18	0.58
34:BM:69:GLN:HE21	34:BM:69:GLN:N	2.00	0.58
34:BM:7:LYS:HE3	34:BM:7:LYS:C	2.23	0.58
35:BN:2:ILE:O	35:BN:3:GLN:CG	2.51	0.58
36:BO:127:ALA:C	36:BO:128:HIS:ND1	2.56	0.58
36:BO:136:GLU:HB3	36:BO:137:LYS:HE3	1.85	0.58
36:BO:7:ARG:HD2	36:BO:8:PRO:CD	2.32	0.58
38:BQ:14:SER:O	38:BQ:17:ARG:HG2	2.03	0.58
39:BR:73:LEU:N	39:BR:73:LEU:CD1	2.66	0.58
40:BS:55:ASN:HD22	40:BS:57:PHE:HE2	1.48	0.58
41:BT:61:TRP:O	41:BT:63:VAL:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:84:LYS:C	41:BT:86:ALA:N	2.54	0.58
42:BU:30:GLY:O	42:BU:33:VAL:HG23	2.03	0.58
43:BV:64:MET:HG2	43:BV:109:GLU:CB	2.32	0.58
43:BV:88:ARG:HB2	43:BV:94:ASP:OD2	2.03	0.58
46:BY:151:HIS:CB	46:BY:170:THR:HA	2.32	0.58
46:BY:86:VAL:HG12	46:BY:88:PHE:CE2	2.38	0.58
46:BY:98:MET:HE2	46:BY:99:TYR:H	1.67	0.58
3:AD:26:A:H61	3:AD:44:G:H22	1.49	0.58
24:BA:2171:A:HO2'	24:BA:2172:U:P	2.26	0.58
26:BC:104:LEU:CD2	26:BC:127:LEU:HD23	2.32	0.58
24:BA:2123:G:O2'	26:BC:172:HIS:HB2	2.03	0.58
1:AA:1169:A:C6	1:AA:1170:A:C2	2.91	0.58
25:BB:119:A:H3'	25:BB:119:A:C8	2.39	0.58
3:AD:12:U:H2'	3:AD:13:C:C6	2.37	0.58
15:AP:79:LYS:O	15:AP:83:ASP:HB2	2.02	0.58
1:AA:1196:U:H5'	1:AA:1197:G:C5'	2.33	0.58
1:AA:1201:A:N3	1:AA:1201:A:H2'	2.18	0.58
1:AA:1252:A:C5	1:AA:1253:G:N7	2.71	0.58
1:AA:155:C:C2	1:AA:167:G:C2	2.92	0.58
1:AA:298:A:C2	1:AA:299:G:H1'	2.38	0.58
1:AA:533:A:C6	1:AA:536:C:N4	2.70	0.58
1:AA:690:G:C6	1:AA:691:G:N3	2.71	0.58
1:AA:739:C:O2'	1:AA:740:U:H5'	2.03	0.58
1:AA:8:A:N7	6:AG:208:SER:O	2.37	0.58
2:AC:61:C:H2'	2:AC:62:C:C6	2.38	0.58
2:AC:62:C:O2'	2:AC:63:G:H5'	2.03	0.58
4:AE:135:GLN:O	4:AE:139:LYS:HG2	2.03	0.58
4:AE:16:HIS:NE2	4:AE:210:SER:HA	2.18	0.58
5:AF:152:ILE:CG2	5:AF:167:TRP:CE3	2.86	0.58
5:AF:23:TYR:CD2	5:AF:24:ALA:N	2.65	0.58
6:AG:67:ILE:CD1	6:AG:67:ILE:C	2.72	0.58
8:AI:10:LEU:H	8:AI:10:LEU:HD23	1.67	0.58
9:AJ:106:GLN:HA	9:AJ:109:ASN:ND2	2.18	0.58
9:AJ:94:ARG:HH11	9:AJ:94:ARG:C	2.06	0.58
13:AN:15:ALA:HA	13:AN:77:MET:HA	1.85	0.58
13:AN:85:ARG:HH11	13:AN:85:ARG:HG3	1.68	0.58
14:AO:103:GLY:N	14:AO:107:ALA:O	2.35	0.58
15:AP:19:LEU:HD11	15:AP:30:ALA:CB	2.31	0.58
18:AS:56:ALA:C	18:AS:60:LEU:HG	2.24	0.58
19:AT:61:GLU:HA	19:AT:71:PHE:CD1	2.39	0.58
23:AX:23:PRO:C	23:AX:25:LYS:H	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:26:LEU:HD11	49:B2:46:ASN:HB3	1.85	0.58
52:B5:30:THR:CB	52:B5:31:PRO:CD	2.81	0.58
52:B5:19:ARG:NH1	52:B5:43:CYS:SG	2.76	0.58
55:B8:11:CYS:N	55:B8:32:HIS:CD2	2.72	0.58
55:B8:2:LYS:HG2	55:B8:35:ARG:HD3	1.85	0.58
24:BA:1135:C:H2'	24:BA:1136:G:H8	1.68	0.58
24:BA:1252:G:N7	24:BA:1253:A:N3	2.52	0.58
24:BA:1306:C:H2'	24:BA:1307:A:C8	2.36	0.58
24:BA:1320:C:O2'	24:BA:1321:A:H5''	2.03	0.58
24:BA:1336:A:H2'	24:BA:1337:G:H8	1.67	0.58
24:BA:1350:C:N4	24:BA:1382:G:N2	2.52	0.58
24:BA:1399:C:O2'	24:BA:1400:G:H5'	2.04	0.58
24:BA:150:C:O2'	24:BA:151:C:H5'	2.03	0.58
24:BA:1672:C:N4	24:BA:1673:U:H5	2.00	0.58
24:BA:118:A:O2'	24:BA:178:G:C5'	2.52	0.58
24:BA:1799:G:N2	24:BA:1818:U:O2'	2.36	0.58
24:BA:1857:G:C2	24:BA:1884:A:N1	2.71	0.58
24:BA:1970:A:C6	24:BA:1972:A:N7	2.72	0.58
24:BA:2046:G:H1'	51:B4:22:HIS:HD1	1.68	0.58
24:BA:224:G:N2	24:BA:225:A:C1'	2.63	0.58
24:BA:2307:G:H3'	24:BA:2308:G:N9	2.17	0.58
24:BA:2352:A:C2	24:BA:2353:G:H1'	2.39	0.58
24:BA:2445:G:H2'	24:BA:2446:G:H8	1.62	0.58
24:BA:2055:C:C2'	24:BA:2504:U:H5'	2.33	0.58
24:BA:2519:U:C1'	24:BA:2542:A:N1	2.66	0.58
24:BA:250:G:C2	24:BA:251:A:C5	2.91	0.58
24:BA:2582:G:O2'	24:BA:2583:G:H5'	2.03	0.58
24:BA:270(A):A:H61	24:BA:270(Y):G:H4'	1.66	0.58
24:BA:2748:A:C6	24:BA:2756:U:C2	2.92	0.58
24:BA:2772:C:H2'	24:BA:2772:C:O2	2.04	0.58
24:BA:2791:C:C2	24:BA:2792:G:C8	2.92	0.58
24:BA:2850:A:H2	38:BQ:61:HIS:CE1	2.22	0.58
24:BA:449:A:C2'	24:BA:450:G:C5'	2.81	0.58
24:BA:470:A:O2'	24:BA:471:A:P	2.62	0.58
24:BA:308:G:N7	24:BA:501:A:C4	2.70	0.58
24:BA:569:U:H1'	24:BA:947:G:C1'	2.33	0.58
24:BA:67:U:O5'	24:BA:67:U:C6	2.56	0.58
24:BA:714:U:H5''	24:BA:714:U:H6	1.67	0.58
24:BA:912:C:O2'	24:BA:913:U:H5'	2.03	0.58
24:BA:960:A:C4	24:BA:962:G:C8	2.91	0.58
27:BD:168:ARG:HG3	27:BD:173:VAL:HG22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:201:HIS:O	27:BD:204:ILE:HB	2.03	0.58
27:BD:208:LYS:HZ1	27:BD:211:ARG:HE	1.49	0.58
27:BD:247:ALA:O	27:BD:248:SER:C	2.42	0.58
27:BD:8:PRO:CD	27:BD:26:LYS:C	2.72	0.58
24:BA:599:G:H4'	29:BF:31:HIS:HE2	1.68	0.58
30:BG:127:GLY:O	30:BG:128:ARG:CB	2.51	0.58
30:BG:163:ALA:HB1	30:BG:169:ALA:CA	2.33	0.58
31:BH:56:SER:HB3	31:BH:61:HIS:ND1	2.19	0.58
34:BM:88:GLU:O	34:BM:91:LEU:HG	2.03	0.58
36:BO:96:THR:O	36:BO:102:ARG:CD	2.50	0.58
36:BO:114:ILE:HD13	36:BO:129:ALA:C	2.24	0.58
36:BO:47:ASP:CB	36:BO:48:PRO:CD	2.79	0.58
36:BO:55:ARG:O	36:BO:56:SER:CB	2.52	0.58
37:BP:116:GLU:OE1	37:BP:119:ARG:HD3	2.02	0.58
38:BQ:58:GLY:HA2	38:BQ:80:PHE:CZ	2.37	0.58
39:BR:58:LEU:N	39:BR:65:VAL:CG2	2.66	0.58
40:BS:34:VAL:HG21	40:BS:36:GLU:CD	2.24	0.58
41:BT:66:ASN:HA	41:BT:69:CYS:SG	2.43	0.58
41:BT:8:VAL:O	41:BT:12:ARG:HG3	2.04	0.58
42:BU:69:LYS:HA	42:BU:92:THR:CG2	2.32	0.58
43:BV:33:ARG:NH1	43:BV:37:ARG:HB3	2.18	0.58
43:BV:5:ALA:O	43:BV:105:VAL:HG12	2.03	0.58
45:BX:46:LYS:HB2	45:BX:58:GLY:H	1.68	0.58
45:BX:67:LEU:HD12	45:BX:71:LYS:HZ1	1.67	0.58
46:BY:111:VAL:HG21	46:BY:117:LEU:HD23	1.85	0.58
46:BY:96:VAL:HG13	46:BY:128:VAL:CG2	2.33	0.58
46:BY:2:GLU:OE1	46:BY:69:THR:HG22	2.04	0.58
26:BC:134:ARG:HB3	26:BC:134:ARG:CZ	2.33	0.58
26:BC:111:ASP:OD1	26:BC:136:LEU:CD2	2.52	0.58
26:BC:138:PRO:HB3	26:BC:144:THR:O	2.03	0.58
26:BC:30:LYS:HD2	26:BC:185:LEU:CD1	2.33	0.58
24:BA:1580:A:H5''	24:BA:1581:G:OP2	2.03	0.58
1:AA:209:U:O2	1:AA:209:U:H2'	2.02	0.58
1:AA:1343:G:C2	1:AA:1344:C:C2	2.92	0.58
1:AA:1396:A:O2'	1:AA:1397:C:OP2	2.21	0.58
1:AA:1480:G:C2'	1:AA:1481:U:H5'	2.33	0.58
1:AA:246:A:O2'	1:AA:247:G:O5'	2.21	0.58
1:AA:510:A:H8	1:AA:510:A:O5'	1.86	0.58
1:AA:520:A:C8	1:AA:521:G:O4'	2.56	0.58
1:AA:575:G:N2	1:AA:880:C:O2	2.36	0.58
1:AA:854:G:N1	1:AA:855:G:N7	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:865:A:C4	1:AA:866:C:O2	2.57	0.58
1:AA:939:G:N2	1:AA:940:C:C2	2.72	0.58
1:AA:954:G:H2'	1:AA:955:U:O4'	2.04	0.58
2:AC:25:C:H2'	2:AC:26:G:H8	1.66	0.58
1:AA:1338:G:N2	2:AC:41:C:H1'	2.19	0.58
3:AD:1:G:N1	3:AD:73:A:C5	2.72	0.58
4:AE:136:VAL:N	4:AE:139:LYS:NZ	2.51	0.58
4:AE:97:TRP:HE3	4:AE:172:ILE:HD12	1.68	0.58
4:AE:193:ASP:O	4:AE:194:PRO:C	2.42	0.58
4:AE:213:LEU:C	4:AE:213:LEU:HD23	2.24	0.58
5:AF:138:VAL:O	5:AF:139:GLN:C	2.42	0.58
5:AF:40:ARG:HG3	5:AF:57:ILE:HD12	1.84	0.58
6:AG:121:VAL:O	6:AG:134:ASP:HA	2.03	0.58
7:AH:43:LEU:HB3	7:AH:136:MET:CE	2.25	0.58
9:AJ:121:ALA:O	9:AJ:125:MET:HG3	2.03	0.58
9:AJ:149:ARG:O	9:AJ:150:ALA:C	2.42	0.58
9:AJ:71:PRO:CG	9:AJ:96:GLN:HA	2.33	0.58
12:AM:23:ILE:HG23	12:AM:85:LEU:HD23	1.85	0.58
13:AN:80:VAL:N	13:AN:104:GLN:HE21	2.00	0.58
14:AO:83:VAL:HG21	14:AO:107:ALA:HB3	1.85	0.58
15:AP:22:ILE:HD12	15:AP:25:ILE:CD1	2.33	0.58
15:AP:14:ARG:H	15:AP:44:ARG:NE	2.01	0.58
17:AR:71:GLN:N	17:AR:78:TYR:CD1	2.71	0.58
18:AS:21:VAL:CG2	18:AS:34:GLU:HB3	2.33	0.58
19:AT:22:LEU:HD12	19:AT:23:VAL:N	2.18	0.58
19:AT:44:ALA:HA	19:AT:71:PHE:O	2.04	0.58
19:AT:88:TYR:HA	19:AT:91:ARG:HH21	1.68	0.58
21:AV:11:VAL:HG13	21:AV:39:THR:H	1.68	0.58
22:AW:72:LEU:CD2	22:AW:76:ALA:HB1	2.33	0.58
24:BA:1059:G:H3'	24:BA:1059:G:C8	2.39	0.58
24:BA:1102:C:H3'	24:BA:1104:C:H5	1.69	0.58
24:BA:1128:A:O2'	24:BA:2516:G:H4'	2.04	0.58
24:BA:1202:C:N4	24:BA:1241:A:N7	2.52	0.58
24:BA:138:G:C2'	24:BA:138:G:N3	2.66	0.58
24:BA:1608:A:C4'	24:BA:1609:A:OP1	2.48	0.58
24:BA:1967:C:O2	24:BA:1967:C:C2'	2.48	0.58
24:BA:1981:A:C5'	24:BA:1982:C:OP2	2.51	0.58
24:BA:1996:C:O2	24:BA:1997:G:H4'	2.03	0.58
24:BA:980:A:C2	24:BA:2038:G:O4'	2.44	0.58
24:BA:203:C:H3'	24:BA:204:A:H8	1.66	0.58
24:BA:244:A:C4	24:BA:245:G:H1'	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2469:A:H5'	24:BA:2470:G:OP2	2.02	0.58
24:BA:2497:A:C8	24:BA:2497:A:C3'	2.86	0.58
24:BA:2886:G:N2	24:BA:2887:U:H1'	2.19	0.58
24:BA:458:G:OP1	53:B6:39:ARG:NH2	2.36	0.58
24:BA:52:A:H2'	24:BA:53:A:H8	1.68	0.58
24:BA:630:G:HO2'	24:BA:631:A:P	2.26	0.58
24:BA:652:C:H6	24:BA:652:C:O5'	1.86	0.58
24:BA:685:A:C2	24:BA:689:A:C6	2.91	0.58
25:BB:61:G:N2	25:BB:62:C:C2	2.72	0.58
27:BD:64:ILE:HD12	27:BD:104:TYR:HD2	1.68	0.58
27:BD:143:HIS:NE2	27:BD:192:THR:HB	2.19	0.58
27:BD:5:LYS:N	27:BD:28:GLU:HB2	2.18	0.58
28:BE:131:ALA:HB1	28:BE:134:ILE:CG1	2.32	0.58
29:BF:131:GLY:C	29:BF:133:ASN:N	2.57	0.58
29:BF:162:LEU:CA	29:BF:165:ARG:HH21	2.16	0.58
30:BG:57:ALA:O	30:BG:61:ALA:HB2	2.03	0.58
30:BG:59:GLU:CD	30:BG:152:LEU:HD22	2.24	0.58
30:BG:59:GLU:OE2	30:BG:152:LEU:HD22	2.04	0.58
31:BH:102:ALA:HA	31:BH:115:VAL:O	2.03	0.58
31:BH:11:VAL:HB	31:BH:50:VAL:HG13	1.84	0.58
34:BM:51:PHE:CZ	34:BM:119:ARG:HG2	2.38	0.58
34:BM:57:ALA:CA	34:BM:60:ILE:HG13	2.34	0.58
35:BN:112:MET:O	35:BN:115:VAL:HB	2.02	0.58
24:BA:636:G:O6	36:BO:111:ARG:NH2	2.35	0.58
36:BO:99:LEU:O	36:BO:101:VAL:N	2.33	0.58
38:BQ:75:LEU:O	38:BQ:76:VAL:C	2.42	0.58
39:BR:30:ARG:HH21	39:BR:91:PRO:CB	1.93	0.58
40:BS:111:ARG:HA	40:BS:114:LEU:HD12	1.85	0.58
40:BS:24:PRO:HD2	40:BS:25:GLY:H	1.69	0.58
41:BT:3:ARG:O	41:BT:4:ALA:HB2	2.03	0.58
41:BT:54:LYS:HE2	41:BT:54:LYS:N	2.18	0.58
24:BA:1154:G:O3'	41:BT:58:ARG:NH1	2.36	0.58
41:BT:88:ILE:N	42:BU:52:VAL:HG22	2.17	0.58
44:BW:91:ALA:HB3	44:BW:92:LEU:HD12	1.86	0.58
24:BA:84:A:C5'	45:BX:8:LYS:HG3	2.31	0.58
45:BX:82:PRO:HG3	45:BX:97:ARG:N	2.19	0.58
46:BY:111:VAL:CG2	46:BY:117:LEU:HG	2.33	0.58
46:BY:15:PRO:O	46:BY:18:LEU:CB	2.47	0.58
46:BY:48:PHE:HD2	46:BY:54:HIS:HE2	1.50	0.58
32:BK:101:LEU:CG	32:BK:102:SER:N	2.65	0.58
24:BA:2118:U:H5''	24:BA:2119:A:OP2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:47:LEU:HD11	26:BC:49:ILE:HD13	1.85	0.58
1:AA:1072:G:C2	1:AA:1104:G:C2	2.92	0.58
1:AA:1336:C:O2'	1:AA:1337:G:OP2	2.22	0.58
1:AA:1405:G:H1'	1:AA:1519:A:O4'	2.02	0.58
1:AA:175:C:H2'	1:AA:176:C:H6	1.67	0.58
1:AA:275:G:C2	1:AA:276:G:C8	2.91	0.58
1:AA:375:U:C2	1:AA:376:G:C8	2.91	0.58
1:AA:394:G:C4	1:AA:395:C:C5	2.92	0.58
1:AA:465:A:N7	1:AA:467:G:N1	2.52	0.58
1:AA:483:C:H3'	1:AA:483:C:C6	2.38	0.58
1:AA:607:A:C2	1:AA:608:A:C1'	2.84	0.58
1:AA:760:G:H8	1:AA:760:G:O5'	1.86	0.58
1:AA:834:C:C4	1:AA:853:G:C6	2.91	0.58
1:AA:859:A:C2'	1:AA:860:A:C5'	2.82	0.58
4:AE:173:ALA:HA	4:AE:176:GLU:HB2	1.84	0.58
4:AE:45:GLN:O	4:AE:48:MET:HB2	2.03	0.58
5:AF:51:GLY:O	5:AF:52:LEU:O	2.21	0.58
6:AG:88:VAL:HG12	6:AG:88:VAL:O	2.04	0.58
7:AH:76:ILE:HG21	7:AH:142:LEU:CB	2.34	0.58
8:AI:4:TYR:CA	8:AI:93:SER:OG	2.52	0.58
9:AJ:76:ARG:HD2	9:AJ:89:MET:HE2	1.86	0.58
9:AJ:94:ARG:CG	9:AJ:94:ARG:HH11	2.17	0.58
11:AL:50:LEU:HD11	11:AL:56:LEU:CA	2.21	0.58
11:AL:6:GLY:CA	11:AL:83:ARG:HB3	2.32	0.58
13:AN:14:VAL:O	13:AN:14:VAL:HG12	2.03	0.58
17:AR:33:THR:HG23	17:AR:87:ILE:CD1	2.28	0.58
18:AS:14:ASN:OD1	18:AS:16:HIS:HE1	1.87	0.58
19:AT:96:GLN:O	19:AT:97:SER:C	2.41	0.58
24:BA:95:G:P	48:B1:39:LEU:HB3	2.43	0.58
49:B2:35:ARG:NH1	49:B2:47:VAL:HG11	2.14	0.58
36:BO:54:GLY:HA2	54:B7:12:LYS:NZ	2.19	0.58
24:BA:2419:U:O4	54:B7:31:HIS:HE1	1.87	0.58
55:B8:9:ARG:HG2	55:B8:14:CYS:C	2.24	0.58
24:BA:974:G:N3	24:BA:1186:G:N7	2.52	0.58
24:BA:1364:G:C8	24:BA:1366:A:OP1	2.56	0.58
24:BA:1503:U:H2'	24:BA:1504:C:C5	2.37	0.58
24:BA:1525:G:C2'	24:BA:1526:G:O5'	2.51	0.58
24:BA:1670:C:C2'	24:BA:1671:U:H5'	2.34	0.58
24:BA:1672:C:H2'	24:BA:1673:U:H5''	1.86	0.58
24:BA:1746:G:P	24:BA:1746:G:H3'	2.44	0.58
24:BA:175:G:N1	24:BA:176:G:N3	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1954:G:OP2	24:BA:1954:G:H3'	2.03	0.58
24:BA:1955:U:OP2	24:BA:1956:U:O4	2.22	0.58
24:BA:1957:C:H2'	24:BA:1958:C:H6	1.69	0.58
24:BA:1973:G:H2'	24:BA:1974:C:C6	2.38	0.58
24:BA:185:U:N3	24:BA:212:G:N2	2.52	0.58
24:BA:2228:G:C8	24:BA:2229:C:C6	2.91	0.58
24:BA:223:A:C5	24:BA:408:G:H1'	2.39	0.58
24:BA:2334:G:N2	39:BR:11:LYS:NZ	2.51	0.58
24:BA:2376:A:OP1	24:BA:2376:A:H8	1.87	0.58
24:BA:2392:A:C2'	24:BA:2393:A:C5'	2.78	0.58
24:BA:2493:U:C3'	24:BA:2493:U:C6	2.87	0.58
24:BA:2508:G:H2'	24:BA:2509:G:C5'	2.33	0.58
24:BA:251:A:C2'	24:BA:252:G:O5'	2.51	0.58
24:BA:270(Q):C:O2'	24:BA:270(R):G:H5'	2.04	0.58
24:BA:499:U:C5	24:BA:500:G:C4	2.92	0.58
24:BA:566:U:C5	24:BA:567:A:N7	2.72	0.58
24:BA:669:G:N3	24:BA:669:G:C2'	2.65	0.58
24:BA:723:G:H2'	24:BA:724:U:H6	1.69	0.58
24:BA:979:G:C8	24:BA:981:A:P	2.97	0.58
25:BB:28:C:OP2	39:BR:33:LYS:HB3	2.04	0.58
25:BB:61:G:H2'	25:BB:62:C:C6	2.37	0.58
27:BD:147:LEU:O	27:BD:148:GLU:C	2.41	0.58
27:BD:158:ALA:C	27:BD:160:GLY:N	2.56	0.58
28:BE:104:VAL:HG23	28:BE:198:VAL:HG13	1.83	0.58
24:BA:2821:A:OP2	28:BE:110:GLY:HA3	2.02	0.58
28:BE:144:ARG:O	28:BE:146:THR:N	2.36	0.58
29:BF:126:VAL:O	29:BF:126:VAL:HG22	2.03	0.58
30:BG:105:LYS:NZ	30:BG:139:LEU:CD1	2.60	0.58
30:BG:113:ARG:CZ	30:BG:139:LEU:HD23	2.33	0.58
30:BG:14:GLU:CD	30:BG:15:VAL:N	2.57	0.58
30:BG:1:MET:C	30:BG:3:LEU:N	2.55	0.58
30:BG:68:PRO:HB3	30:BG:72:ARG:NH1	2.19	0.58
24:BA:2309:A:N6	30:BG:80:PHE:CD1	2.71	0.58
30:BG:36:LYS:HB2	30:BG:95:ARG:HG3	1.85	0.58
31:BH:122:THR:O	31:BH:133:VAL:HG23	2.03	0.58
32:BK:28:ASN:HA	32:BK:32:PRO:CB	2.32	0.58
33:BL:131:ALA:C	33:BL:136:VAL:HB	2.24	0.58
34:BM:73:THR:HG22	34:BM:75:TYR:HE1	1.69	0.58
35:BN:95:GLY:O	35:BN:117:LEU:CD1	2.51	0.58
36:BO:93:GLY:CA	36:BO:112:LEU:CD2	2.81	0.58
37:BP:24:GLY:N	37:BP:101:ARG:NH2	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:56:LYS:O	38:BQ:57:ARG:C	2.42	0.58
38:BQ:83:ILE:HG23	38:BQ:86:ARG:NH2	2.19	0.58
39:BR:29:PHE:HB3	39:BR:36:TYR:H	1.68	0.58
39:BR:70:GLY:CA	39:BR:73:LEU:HD22	2.32	0.58
40:BS:64:ARG:NH1	40:BS:77:PRO:HA	2.19	0.58
41:BT:46:ALA:HA	41:BT:49:HIS:CD2	2.38	0.58
42:BU:11:GLN:NE2	42:BU:22:VAL:HB	2.19	0.58
42:BU:52:VAL:HG12	42:BU:53:GLU:N	2.17	0.58
42:BU:35:LEU:C	42:BU:61:VAL:HG22	2.23	0.58
42:BU:67:GLY:HA2	42:BU:94:LEU:HA	1.85	0.58
42:BU:66:ARG:O	42:BU:94:LEU:HD23	2.02	0.58
43:BV:64:MET:CB	43:BV:109:GLU:HB3	2.34	0.58
45:BX:1:MET:N	45:BX:33:LYS:NZ	2.52	0.58
46:BY:111:VAL:HG21	46:BY:117:LEU:CD2	2.34	0.58
46:BY:153:SER:O	46:BY:154:ASP:C	2.41	0.58
46:BY:4:ARG:CG	46:BY:38:TYR:O	2.50	0.58
47:BZ:37:LEU:N	47:BZ:37:LEU:HD23	2.18	0.58
24:BA:2331:G:O3'	47:BZ:43:THR:HB	2.03	0.58
24:BA:2132:U:C2'	24:BA:2132:U:O2	2.49	0.58
26:BC:97:GLU:CG	26:BC:119:VAL:HB	2.34	0.58
26:BC:216:THR:OG1	26:BC:219:GLY:CA	2.51	0.58
26:BC:59:ARG:HG3	26:BC:60:GLY:N	2.18	0.58
24:BA:1497:U:C4	24:BA:1577:C:O5'	2.56	0.58
24:BA:1581:G:H2'	24:BA:1582:C:C5'	2.33	0.58
1:AA:1032(A):G:O2'	1:AA:1032(B):G:H5'	2.04	0.58
1:AA:339:C:O2'	1:AA:340:U:H5'	2.03	0.58
1:AA:1012:U:C4	1:AA:1013:G:C6	2.92	0.58
1:AA:1065:U:O2	1:AA:1065:U:C2'	2.50	0.58
1:AA:1291:G:N2	1:AA:1292:U:C2	2.71	0.58
1:AA:1464:G:C2	1:AA:1465:C:N4	2.72	0.58
1:AA:247:G:H2'	1:AA:248:C:O5'	2.03	0.58
1:AA:38:G:N2	1:AA:397:A:C5'	2.60	0.58
1:AA:767:A:N6	1:AA:813:U:C2	2.72	0.58
1:AA:877:C:O2'	1:AA:878:G:H5'	2.04	0.58
1:AA:585:G:O2'	1:AA:879:C:H5"	2.03	0.58
1:AA:900:A:N6	1:AA:901:A:N6	2.51	0.58
1:AA:947:G:H2'	1:AA:948:C:H6	1.68	0.58
1:AA:960:U:N3	1:AA:1225:A:C5	2.72	0.58
1:AA:962:C:H1'	1:AA:1201:A:C2	2.39	0.58
1:AA:97:U:H2'	1:AA:99:C:C5	2.38	0.58
4:AE:142:LEU:HD23	4:AE:142:LEU:C	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:83:ARG:CG	5:AF:87:LEU:HD11	2.27	0.58
6:AG:160:GLN:C	6:AG:163:GLU:HB3	2.24	0.58
6:AG:180:GLY:O	6:AG:182:LYS:HG2	2.04	0.58
6:AG:194:LEU:HB3	6:AG:196:LEU:CD1	2.32	0.58
6:AG:204:ILE:CD1	6:AG:204:ILE:H	2.16	0.58
6:AG:35:ARG:O	6:AG:36:ARG:C	2.41	0.58
7:AH:79:GLU:CB	7:AH:91:LEU:O	2.51	0.58
10:AK:109:ILE:HG12	10:AK:137:VAL:O	2.03	0.58
10:AK:35:ILE:HG22	10:AK:36:LEU:N	2.19	0.58
10:AK:32:LYS:O	10:AK:35:ILE:N	2.36	0.58
10:AK:38:ILE:CA	10:AK:41:ARG:HB2	2.34	0.58
12:AM:79:ARG:NH2	12:AM:82:ILE:HD12	2.19	0.58
12:AM:6:ILE:CG2	12:AM:98:ILE:HG13	2.29	0.58
13:AN:42:TRP:CZ3	13:AN:47:VAL:CG2	2.80	0.58
14:AO:46:LYS:HG2	14:AO:47:LYS:HG2	1.84	0.58
14:AO:50:SER:O	14:AO:51:ALA:HB2	2.04	0.58
15:AP:96:LEU:O	15:AP:98:VAL:N	2.36	0.58
1:AA:228:A:O4'	18:AS:62:VAL:HG21	2.03	0.58
19:AT:67:LYS:CA	19:AT:70:ARG:HH22	2.16	0.58
20:AU:50:ILE:HD11	20:AU:70:ILE:HG21	1.86	0.58
49:B2:19:GLN:O	49:B2:23:LEU:HD13	2.03	0.58
50:B3:56:VAL:C	50:B3:61:ARG:CZ	2.72	0.58
51:B4:40:LYS:HZ3	51:B4:43:HIS:CA	2.17	0.58
53:B6:35:ARG:HB3	53:B6:36:GLN:OE1	2.04	0.58
54:B7:54:GLU:C	54:B7:57:ARG:HB3	2.24	0.58
36:BO:45:LEU:HB3	54:B7:59:LYS:HD2	1.86	0.58
54:B7:5:LYS:O	54:B7:7:HIS:N	2.37	0.58
24:BA:120:U:OP1	24:BA:124:G:O6	2.22	0.58
24:BA:1422:G:C2	24:BA:1423:G:C8	2.91	0.58
24:BA:1458:C:H5'	24:BA:1459:G:C8	2.39	0.58
24:BA:1814:G:N1	24:BA:1815:A:N6	2.51	0.58
24:BA:1815:A:H1'	24:BA:1817:G:C1'	2.34	0.58
24:BA:182:A:C2	24:BA:183:C:C2	2.92	0.58
24:BA:1891:G:N3	24:BA:1891:G:H2'	2.18	0.58
24:BA:243:U:N3	24:BA:244:A:C8	2.71	0.58
24:BA:2501:C:C4'	24:BA:2503:A:H1'	2.28	0.58
24:BA:2505:G:N2	24:BA:2576:G:C5	2.71	0.58
24:BA:2619:C:C2'	24:BA:2620:C:O5'	2.51	0.58
24:BA:2714:G:C6	24:BA:2715:C:C4	2.91	0.58
24:BA:2823:A:O5'	24:BA:2824:C:OP2	2.22	0.58
24:BA:2834:G:C6	24:BA:2879:C:C4	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:307:G:N2	24:BA:310:A:O5'	2.36	0.58
24:BA:298:G:H1	24:BA:338:G:HO2'	1.50	0.58
24:BA:364:C:O2'	24:BA:365:C:H5'	2.04	0.58
24:BA:449:A:C2	24:BA:450:G:C8	2.92	0.58
24:BA:457:A:C1'	24:BA:459:U:N3	2.66	0.58
24:BA:459:U:H2'	24:BA:460:A:C8	2.39	0.58
24:BA:481:G:O2'	24:BA:482:A:H8	1.85	0.58
24:BA:565:C:N4	24:BA:566:U:O4	2.36	0.58
24:BA:577:G:N1	24:BA:578:A:C5	2.71	0.58
24:BA:640:C:C2'	24:BA:641:C:H5''	2.34	0.58
24:BA:676:A:C8	24:BA:2070:G:H1'	2.38	0.58
24:BA:802:A:C8	24:BA:803:U:C5	2.91	0.58
24:BA:954:G:C2'	24:BA:955:C:H5'	2.34	0.58
25:BB:23:G:N2	25:BB:61:G:C4	2.72	0.58
25:BB:74:U:H2'	25:BB:75:G:H1'	1.85	0.58
27:BD:174:ILE:CD1	27:BD:174:ILE:N	2.65	0.58
27:BD:258:LYS:HG2	27:BD:259:THR:N	2.17	0.58
28:BE:98:PRO:HA	28:BE:172:VAL:HG21	1.82	0.58
28:BE:34:VAL:HG11	28:BE:36:ARG:NH2	2.16	0.58
30:BG:68:PRO:HB3	30:BG:72:ARG:CZ	2.32	0.58
33:BL:115:LEU:HD12	33:BL:118:THR:N	2.18	0.58
33:BL:68:VAL:HG11	33:BL:70:LYS:HE3	1.85	0.58
34:BM:55:VAL:CG2	34:BM:123:TYR:H	2.16	0.58
34:BM:73:THR:HG22	34:BM:75:TYR:CE1	2.38	0.58
35:BN:108:GLU:O	35:BN:109:LYS:HB2	2.04	0.58
35:BN:16:ALA:C	35:BN:18:LYS:N	2.57	0.58
35:BN:35:VAL:CG2	35:BN:64:ARG:HD3	2.34	0.58
37:BP:8:LYS:NZ	37:BP:11:LYS:CE	2.67	0.58
39:BR:11:LYS:HZ1	39:BR:15:ARG:CZ	2.16	0.58
40:BS:98:LYS:CG	40:BS:98:LYS:O	2.52	0.58
42:BU:20:LEU:HB3	42:BU:95:LEU:CD1	2.27	0.58
43:BV:2:GLU:HG2	43:BV:72:LYS:NZ	2.19	0.58
43:BV:90:ARG:HH21	43:BV:90:ARG:CA	2.15	0.58
44:BW:21:PHE:CD2	44:BW:26:TYR:HA	2.39	0.58
46:BY:104:PHE:CB	46:BY:139:VAL:O	2.51	0.58
46:BY:157:LEU:HD21	46:BY:163:LEU:CD1	2.32	0.58
24:BA:2174:C:H2'	24:BA:2175:C:H6	1.68	0.58
26:BC:113:VAL:HG23	26:BC:144:THR:HG22	1.85	0.58
26:BC:119:VAL:O	26:BC:119:VAL:HG23	2.03	0.58
26:BC:56:GLN:HA	26:BC:201:PRO:HG3	1.86	0.58
6:AG:47:ARG:NH2	6:AG:48:ALA:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1031:G:O2'	1:AA:1032:A:H5'	2.02	0.58
43:BV:45:TYR:N	43:BV:45:TYR:CD2	2.70	0.58
1:AA:1101:A:O2'	1:AA:1102:A:P	2.62	0.58
1:AA:1242:C:C4	1:AA:1243:C:C5	2.91	0.58
1:AA:1269:A:H8	1:AA:1270:C:O4'	1.86	0.58
1:AA:1317:C:OP1	16:AQ:16:PHE:CD2	2.56	0.58
1:AA:1285:A:N6	1:AA:1355:G:H4'	2.17	0.58
1:AA:1377:A:H8	1:AA:1377:A:O5'	1.87	0.58
1:AA:1464:G:N1	1:AA:1465:C:N4	2.52	0.58
1:AA:1516:G:N3	1:AA:1518:A:OP2	2.37	0.58
1:AA:262:A:N1	1:AA:263:A:C6	2.71	0.58
1:AA:286:G:C5	1:AA:287:U:C5	2.92	0.58
1:AA:323:U:H5	1:AA:324:G:N3	2.02	0.58
1:AA:389:A:C2	1:AA:390:C:C4'	2.86	0.58
1:AA:507:C:OP2	1:AA:508:C:C3'	2.51	0.58
1:AA:892:A:H2'	1:AA:893:C:H6	1.69	0.58
1:AA:953:G:N1	1:AA:1229:A:C6	2.71	0.58
1:AA:961:U:C6	1:AA:983:A:C4	2.91	0.58
2:AC:47:U:C2	2:AC:50:U:OP1	2.56	0.58
2:AC:9:G:H21	2:AC:45:G:H2'	1.69	0.58
4:AE:150:SER:O	4:AE:151:GLY:C	2.41	0.58
4:AE:177:ALA:O	4:AE:179:LYS:N	2.36	0.58
4:AE:82:ARG:CA	4:AE:92:TYR:CE1	2.80	0.58
6:AG:187:ARG:O	6:AG:188:LEU:C	2.40	0.58
6:AG:40:PRO:O	6:AG:44:GLY:HA3	2.03	0.58
7:AH:61:TYR:HA	7:AH:64:ARG:CG	2.31	0.58
7:AH:61:TYR:O	7:AH:64:ARG:N	2.36	0.58
8:AI:88:VAL:O	8:AI:88:VAL:HG12	2.04	0.58
10:AK:20:TYR:HA	10:AK:65:TYR:OH	2.04	0.58
10:AK:53:VAL:CG2	10:AK:58:TYR:HB2	2.34	0.58
13:AN:54:ARG:O	13:AN:56:GLY:N	2.37	0.58
15:AP:108:ARG:HH12	15:AP:112:GLY:N	2.01	0.58
15:AP:14:ARG:CA	15:AP:44:ARG:HA	2.30	0.58
15:AP:77:ASN:O	15:AP:81:LEU:HD13	2.04	0.58
17:AR:36:ILE:CG2	17:AR:37:ASN:N	2.66	0.58
17:AR:50:HIS:CD2	17:AR:50:HIS:H	2.20	0.58
19:AT:67:LYS:CA	19:AT:70:ARG:NH2	2.66	0.58
20:AU:46:GLU:HG2	20:AU:85:LEU:HD13	1.84	0.58
21:AV:40:ILE:HA	21:AV:44:MET:SD	2.43	0.58
54:B7:13:ARG:HD2	54:B7:24:ALA:HB1	1.85	0.58
54:B7:3:LYS:HG2	54:B7:4:MET:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:50:LEU:CD2	54:B7:51:ALA:H	2.16	0.58
55:B8:9:ARG:HA	55:B8:34:GLN:NE2	2.06	0.58
24:BA:1012:U:H3	34:BM:28:THR:HG21	1.67	0.58
24:BA:1024:G:O6	24:BA:1134:G:C4	2.57	0.58
24:BA:1212:G:C3'	24:BA:1212:G:C8	2.87	0.58
24:BA:1422:G:H4'	24:BA:1493:C:O2'	2.03	0.58
24:BA:1508:A:H3'	24:BA:1510:A:C8	2.35	0.58
24:BA:1537:C:H2'	24:BA:1538:G:H5'	1.85	0.58
24:BA:1596:A:C6	24:BA:1597:A:C5	2.91	0.58
24:BA:1608:A:C8	24:BA:1611:C:N4	2.72	0.58
24:BA:1692:U:C1'	24:BA:1696:G:N2	2.66	0.58
24:BA:1717:G:H1	24:BA:1718:G:N2	2.01	0.58
24:BA:1785:A:C2'	24:BA:1786:A:C8	2.86	0.58
24:BA:1912:A:C8	24:BA:1913:A:H1'	2.39	0.58
24:BA:1913:A:H2'	24:BA:1916:A:N1	2.19	0.58
24:BA:1993:U:C2'	24:BA:1994:C:H5'	2.33	0.58
24:BA:2030:A:O2'	24:BA:2031:A:P	2.61	0.58
24:BA:2078:C:H1'	24:BA:2434:A:N3	2.18	0.58
24:BA:2083:G:H2'	24:BA:2084:C:H6	1.68	0.58
24:BA:2209:C:C1'	27:BD:150:LYS:HZ3	2.16	0.58
24:BA:2219:G:H2'	24:BA:2224:G:H5'	1.84	0.58
24:BA:2393:A:C2'	24:BA:2394:C:C5'	2.82	0.58
24:BA:2393:A:C2'	24:BA:2394:C:H5'	2.33	0.58
24:BA:2752:C:H2'	24:BA:2753:A:C5'	2.33	0.58
24:BA:2523:G:H1'	24:BA:2765:A:C5	2.39	0.58
24:BA:2805:G:C2'	24:BA:2807:G:H5''	2.34	0.58
24:BA:654:A:C2'	24:BA:654:A:N3	2.66	0.58
24:BA:662:G:C2	24:BA:663:G:N7	2.72	0.58
24:BA:878:A:C1'	24:BA:879:G:N7	2.67	0.58
27:BD:181:GLU:CG	27:BD:268:ARG:HH21	2.15	0.58
27:BD:244:ARG:HA	27:BD:252:TRP:HE1	1.67	0.58
27:BD:46:GLN:HE22	27:BD:51:VAL:HG23	1.68	0.58
28:BE:51:PHE:CE1	28:BE:53:PRO:HD3	2.38	0.58
28:BE:59:VAL:HB	28:BE:62:PRO:CD	2.33	0.58
28:BE:5:LEU:HD13	28:BE:196:VAL:O	2.04	0.58
28:BE:64:LYS:HA	28:BE:67:PHE:HB2	1.86	0.58
29:BF:38:ARG:HA	29:BF:41:LEU:HD21	1.85	0.58
30:BG:96:ARG:HA	30:BG:100:TRP:HZ3	1.69	0.58
30:BG:9:ARG:HA	30:BG:12:TYR:HE2	1.67	0.58
30:BG:59:GLU:CG	30:BG:152:LEU:HD22	2.33	0.58
30:BG:53:LEU:CB	30:BG:69:ALA:O	2.47	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:127:GLU:OE1	31:BH:127:GLU:HA	2.04	0.58
31:BH:66:GLY:O	31:BH:69:ARG:CG	2.52	0.58
31:BH:24:VAL:CG1	31:BH:72:ILE:HD12	2.33	0.58
32:BK:4:ILE:CD1	32:BK:39:ALA:N	2.67	0.58
33:BL:77:LEU:HG	33:BL:111:LYS:HD2	1.85	0.58
34:BM:23:LEU:CD1	34:BM:63:THR:HG23	2.32	0.58
34:BM:69:GLN:HE21	34:BM:69:GLN:H	1.51	0.58
36:BO:113:LYS:CA	36:BO:129:ALA:HB3	2.28	0.58
37:BP:119:ARG:HD3	37:BP:120:ILE:HG13	1.85	0.58
37:BP:42:ILE:HG23	37:BP:42:ILE:O	2.03	0.58
39:BR:103:GLU:OE2	39:BR:103:GLU:N	2.36	0.58
39:BR:6:ALA:HA	39:BR:9:ARG:HB2	1.86	0.58
40:BS:28:VAL:HG22	40:BS:93:ARG:O	2.04	0.58
43:BV:32:ALA:O	43:BV:36:LEU:HB2	2.03	0.58
24:BA:494:G:H5'	43:BV:7:ALA:HA	1.86	0.58
44:BW:50:LYS:HG3	44:BW:85:PRO:HD3	1.85	0.58
44:BW:8:ILE:HG13	44:BW:9:LEU:HG	1.86	0.58
45:BX:2:ARG:HB3	45:BX:2:ARG:CZ	2.33	0.58
46:BY:10:ARG:CG	46:BY:38:TYR:OH	2.52	0.58
3:AD:18:G:N2	3:AD:57:G:C8	2.63	0.58
3:AD:19:G:O2'	3:AD:58:A:H5''	2.04	0.58
24:BA:2173:A:C2	24:BA:2174:C:C2	2.91	0.58
26:BC:131:LEU:HD22	26:BC:136:LEU:HD12	1.86	0.58
26:BC:138:PRO:HA	26:BC:144:THR:HB	1.85	0.58
26:BC:29:VAL:HG21	26:BC:41:VAL:CG1	2.33	0.58
24:BA:2193:G:H2'	24:BA:2194:G:H8	1.68	0.58
24:BA:1886:C:C2	24:BA:1887:C:C5	2.92	0.58
1:AA:434:U:O2'	1:AA:435:C:H5'	2.04	0.58
1:AA:1016:A:O5'	1:AA:1016:A:C8	2.54	0.58
1:AA:1065:U:C5	1:AA:1190:G:H1'	2.39	0.58
1:AA:1196:U:H6	1:AA:1196:U:H3'	1.68	0.58
1:AA:120:A:H2'	1:AA:122:G:N7	2.19	0.58
1:AA:251:G:C2	1:AA:266:G:O6	2.57	0.58
1:AA:315:A:H2'	1:AA:316:G:OP2	2.04	0.58
1:AA:406:G:N2	1:AA:407:G:C4	2.72	0.58
1:AA:465:A:N6	1:AA:467:G:N3	2.51	0.58
1:AA:570:G:H8	1:AA:570:G:O5'	1.87	0.58
1:AA:684:A:H2'	1:AA:685:G:C8	2.39	0.58
1:AA:981:U:H3'	1:AA:981:U:C6	2.39	0.58
1:AA:997:U:C6	1:AA:997:U:OP2	2.57	0.58
4:AE:166:ASP:HB2	4:AE:205:ASP:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:12:LEU:HD11	5:AF:18:TRP:CH2	2.39	0.58
5:AF:205:GLY:O	5:AF:206:GLU:CB	2.51	0.58
6:AG:117:ALA:HA	6:AG:120:LEU:HD21	1.86	0.58
6:AG:126:ILE:N	6:AG:132:ARG:HD2	2.17	0.58
6:AG:18:LYS:C	6:AG:20:TYR:H	2.07	0.58
6:AG:31:CYS:C	6:AG:33:MET:H	2.05	0.58
7:AH:7:GLU:CG	7:AH:112:LEU:HD21	2.33	0.58
7:AH:35:GLY:HA3	7:AH:41:VAL:HG12	1.84	0.58
8:AI:61:LEU:HB3	8:AI:63:TYR:CZ	2.39	0.58
9:AJ:69:VAL:HG22	9:AJ:135:VAL:HG22	1.85	0.58
10:AK:27:PRO:O	10:AK:32:LYS:HE2	2.03	0.58
10:AK:89:PRO:HB3	10:AK:92:ARG:HH21	1.67	0.58
11:AL:21:PRO:HG3	11:AL:59:PHE:CZ	2.38	0.58
12:AM:28:ARG:HG3	12:AM:33:GLN:O	2.04	0.58
12:AM:46:ARG:HH11	16:AQ:59:ALA:HB1	1.68	0.58
13:AN:84:VAL:CG2	13:AN:111:ASP:H	2.17	0.58
14:AO:11:VAL:HG12	14:AO:11:VAL:O	2.04	0.58
1:AA:1230:C:O2	15:AP:126:LYS:CG	2.51	0.58
16:AQ:9:LYS:C	16:AQ:9:LYS:HD3	2.24	0.58
1:AA:668:G:H1'	17:AR:46:HIS:NE2	2.19	0.58
18:AS:36:ILE:HG22	18:AS:55:ARG:CB	2.34	0.58
19:AT:58:GLU:CD	19:AT:74:LEU:HB3	2.24	0.58
22:AW:75:ASN:O	22:AW:79:ARG:HG2	2.02	0.58
48:B1:1:MET:HE3	48:B1:3:LYS:CB	2.34	0.58
24:BA:1364:G:O6	50:B3:2:LYS:HD3	2.03	0.58
54:B7:26:LYS:HE3	54:B7:45:GLY:H	1.68	0.58
24:BA:1230:C:O2'	24:BA:1231:G:H5'	2.03	0.58
24:BA:1263:U:C4	24:BA:1264:G:C2	2.92	0.58
24:BA:1464:C:H2'	24:BA:1465:G:C8	2.35	0.58
24:BA:1472:A:C1'	24:BA:1473:G:N7	2.61	0.58
24:BA:1663:C:H2'	24:BA:1664:A:C4	2.36	0.58
24:BA:1761:C:H3'	24:BA:1761:C:H6	1.68	0.58
24:BA:1784:A:O2'	24:BA:1785:A:N7	2.36	0.58
24:BA:2206:C:H6	24:BA:2206:C:H5'	1.68	0.58
24:BA:220:G:HO2'	24:BA:233:A:H2	1.52	0.58
24:BA:2352:A:H2'	24:BA:2352:A:N3	2.18	0.58
24:BA:1864:U:C5'	24:BA:2410:G:O2'	2.52	0.58
24:BA:945:A:N7	24:BA:2448:A:C2	2.71	0.58
24:BA:2592:G:C6	24:BA:2593:U:C4	2.92	0.58
24:BA:261:G:HO2'	24:BA:262:A:H5'	1.69	0.58
24:BA:289:A:H2'	24:BA:351:G:N2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:388:G:N3	24:BA:390:A:C6	2.72	0.58
24:BA:969:U:H2'	24:BA:970:C:H6	1.69	0.58
25:BB:66:A:C2	25:BB:108:C:C6	2.91	0.58
25:BB:40:U:C2	25:BB:43:C:OP2	2.56	0.58
25:BB:52:A:H2'	25:BB:53:A:C5'	2.34	0.58
27:BD:17:THR:C	27:BD:19:ALA:N	2.54	0.58
24:BA:2224:G:C4'	27:BD:262:ARG:HH12	2.17	0.58
27:BD:72:LYS:O	27:BD:74:GLY:N	2.37	0.58
28:BE:117:MET:HG2	28:BE:136:ARG:CD	2.33	0.58
28:BE:133:LYS:CD	28:BE:137:HIS:HB3	2.34	0.58
29:BF:123:LEU:HG	29:BF:191:ARG:HG2	1.85	0.58
29:BF:67:GLN:O	29:BF:68:LYS:O	2.22	0.58
29:BF:7:TYR:OH	29:BF:24:LEU:HD23	2.03	0.58
30:BG:99:MET:O	30:BG:102:PHE:N	2.37	0.58
30:BG:49:ASP:O	30:BG:53:LEU:HD13	2.04	0.58
32:BK:14:ASP:O	32:BK:16:GLY:N	2.37	0.58
33:BL:13:PRO:HG2	33:BL:16:LYS:HB2	1.85	0.58
34:BM:126:PRO:C	34:BM:127:ASP:CG	2.59	0.58
34:BM:13:TRP:HB2	34:BM:136:GLU:OE1	2.04	0.58
35:BN:18:LYS:NZ	35:BN:44:LYS:CD	2.67	0.58
24:BA:623:G:OP2	36:BO:105:LEU:HD21	2.03	0.58
36:BO:16:ARG:HD3	36:BO:18:ARG:O	2.04	0.58
36:BO:23:PRO:CB	36:BO:30:THR:HG23	2.30	0.58
36:BO:64:LYS:O	36:BO:65:ARG:HG3	2.03	0.58
37:BP:111:GLU:OE1	37:BP:111:GLU:HA	2.04	0.58
38:BQ:53:HIS:CE1	38:BQ:56:LYS:HZ3	2.22	0.58
41:BT:112:ARG:NH1	42:BU:53:GLU:OE2	2.37	0.58
42:BU:11:GLN:NE2	42:BU:24:LYS:HZ3	2.01	0.58
46:BY:6:LYS:CG	46:BY:37:VAL:HG13	2.33	0.58
46:BY:95:PRO:HD2	46:BY:130:PRO:HA	1.85	0.58
47:BZ:38:VAL:HG23	47:BZ:59:LEU:HB2	1.86	0.58
26:BC:155:GLU:HA	26:BC:158:ALA:HB3	1.86	0.58
24:BA:2124:G:C4'	26:BC:42:GLU:HG3	2.32	0.58
24:BA:171:G:H2'	24:BA:172:C:C6	2.37	0.58
26:BC:20:TYR:CE1	26:BC:222:VAL:HG11	2.39	0.58
1:AA:1062:U:N3	1:AA:1063:C:N4	2.52	0.58
1:AA:1085:U:O2	1:AA:1094:G:O6	2.21	0.58
1:AA:1202:G:C4	16:AQ:42:ILE:CD1	2.85	0.58
1:AA:1229:A:P	15:AP:116:THR:HG22	2.43	0.58
1:AA:1259:C:C2	1:AA:1283:G:H1'	2.38	0.58
1:AA:1286:A:H5''	23:AX:25:LYS:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:280:C:H4'	1:AA:281:G:OP2	2.04	0.58
1:AA:609:A:C2	1:AA:610:G:H1'	2.38	0.58
1:AA:618:C:H3'	1:AA:620:C:OP2	2.04	0.58
1:AA:889:A:H4'	1:AA:890:G:H4'	1.85	0.58
1:AA:998(A):C:O2	1:AA:1043:C:C2	2.56	0.58
3:AD:28:G:H2'	3:AD:29:C:C6	2.38	0.58
4:AE:187:LEU:HD13	4:AE:187:LEU:O	2.03	0.58
4:AE:16:HIS:NE2	4:AE:213:LEU:HB3	2.19	0.58
4:AE:27:LYS:CB	4:AE:194:PRO:HD2	2.34	0.58
5:AF:84:ILE:CB	5:AF:101:LEU:HD22	2.33	0.58
5:AF:110:ASN:ND2	5:AF:140:ARG:O	2.34	0.58
6:AG:99:SER:O	6:AG:140:VAL:HG23	2.03	0.58
6:AG:153:ARG:HG2	6:AG:181:MET:HE3	1.85	0.58
6:AG:12:CYS:HB3	6:AG:31:CYS:O	2.04	0.58
7:AH:72:GLN:OE1	7:AH:77:PRO:HB3	2.03	0.58
8:AI:37:VAL:HG12	8:AI:38:GLU:H	1.69	0.58
10:AK:9:MET:O	10:AK:13:ILE:HG13	2.04	0.58
12:AM:76:ASN:C	12:AM:78:ASN:H	2.06	0.58
1:AA:551:U:H5'	14:AO:119:LYS:HZ3	1.68	0.58
15:AP:20:THR:HG23	15:AP:26:GLY:HA2	1.85	0.58
15:AP:58:GLU:O	15:AP:61:GLU:HB3	2.04	0.58
15:AP:90:LEU:O	15:AP:93:ARG:HB3	2.04	0.58
1:AA:1309:G:OP2	15:AP:99:ARG:NH2	2.37	0.58
16:AQ:23:ARG:CD	16:AQ:30:ALA:HB2	2.34	0.58
17:AR:39:LEU:HD21	17:AR:56:LEU:HD11	1.86	0.58
18:AS:6:LEU:CD2	18:AS:17:TYR:CD2	2.83	0.58
1:AA:136:C:C1'	18:AS:1:MET:SD	2.92	0.58
18:AS:53:VAL:O	18:AS:56:ALA:HB3	2.03	0.58
19:AT:18:THR:CB	19:AT:69:LYS:HZ1	2.17	0.58
19:AT:24:GLU:OE1	19:AT:24:GLU:N	2.36	0.58
22:AW:56:MET:SD	22:AW:84:LEU:HD12	2.44	0.58
44:BW:7:VAL:CG2	48:B1:28:MET:HB2	2.34	0.58
48:B1:27:LEU:HD22	48:B1:52:ILE:HG13	1.86	0.58
48:B1:63:ARG:CA	48:B1:66:ASN:HB3	2.32	0.58
51:B4:48:GLU:O	51:B4:50:GLY:N	2.35	0.58
52:B5:50:ARG:O	52:B5:51:GLU:CB	2.51	0.58
53:B6:42:LEU:C	53:B6:44:PRO:CD	2.70	0.58
36:BO:56:SER:CB	54:B7:13:ARG:NE	2.66	0.58
54:B7:30:ARG:CD	54:B7:44:LYS:HB2	2.33	0.58
24:BA:1021:A:H2'	24:BA:1022:G:OP1	2.04	0.58
24:BA:1804:C:P	27:BD:257:LEU:HD22	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1825:A:N1	24:BA:1826:G:C6	2.72	0.58
24:BA:2015:A:H3'	24:BA:2016:U:H5	1.68	0.58
24:BA:2457:U:C2'	24:BA:2458:G:H5'	2.34	0.58
24:BA:2704:C:H2'	24:BA:2705:A:C8	2.39	0.58
24:BA:2731:G:N2	24:BA:2732:G:C2	2.72	0.58
24:BA:2780:G:O2'	24:BA:2781:A:H5''	2.04	0.58
24:BA:306:U:O4	24:BA:310:A:N7	2.37	0.58
24:BA:332:A:C2'	24:BA:335:C:N4	2.59	0.58
24:BA:514:A:C2	24:BA:515:A:C4	2.92	0.58
24:BA:13:A:N6	24:BA:525:U:C2	2.71	0.58
24:BA:637:A:H4'	24:BA:638:G:O4'	2.04	0.58
24:BA:648:G:C4	24:BA:649:G:C8	2.92	0.58
24:BA:749:C:C2	24:BA:1618:A:C5	2.92	0.58
24:BA:749:C:C3'	24:BA:749:C:C6	2.87	0.58
25:BB:53:A:C5	25:BB:54:G:C8	2.91	0.58
24:BA:2209:C:C4'	27:BD:150:LYS:HD3	2.34	0.58
27:BD:226:MET:SD	27:BD:236:GLY:N	2.77	0.58
27:BD:34:VAL:O	27:BD:36:PRO:CD	2.47	0.58
28:BE:49:LEU:CA	28:BE:76:ARG:O	2.51	0.58
24:BA:600:G:H4'	29:BF:105:VAL:CG1	2.33	0.58
29:BF:113:ALA:HB3	29:BF:186:ILE:CD1	2.34	0.58
29:BF:35:GLU:CA	29:BF:38:ARG:HD2	2.28	0.58
29:BF:4:VAL:HA	29:BF:20:LEU:HG	1.86	0.58
29:BF:82:ILE:CD1	29:BF:82:ILE:H	2.14	0.58
29:BF:88:VAL:O	29:BF:89:VAL:O	2.21	0.58
30:BG:44:GLY:O	30:BG:47:LYS:N	2.37	0.58
24:BA:2748:A:C2	31:BH:67:LEU:HD11	2.39	0.58
33:BL:57:ILE:HG22	33:BL:66:THR:HA	1.85	0.58
34:BM:111:PRO:O	34:BM:114:ARG:HB3	2.04	0.58
34:BM:15:LEU:HD21	34:BM:137:LYS:CB	2.32	0.58
34:BM:74:ARG:CZ	34:BM:76:SER:HB2	2.34	0.58
35:BN:16:ALA:HB1	35:BN:45:GLU:HB3	1.82	0.58
36:BO:114:ILE:O	36:BO:116:GLY:N	2.31	0.58
37:BP:22:LYS:HE3	37:BP:23:GLY:CA	2.34	0.58
37:BP:85:LYS:HZ2	47:BZ:10:THR:CG2	2.16	0.58
38:BQ:116:LEU:O	38:BQ:116:LEU:HD13	2.03	0.58
39:BR:11:LYS:HA	39:BR:14:VAL:CG2	2.34	0.58
41:BT:69:CYS:HG	41:BT:70:ARG:HG3	1.69	0.58
41:BT:83:LEU:O	41:BT:86:ALA:CB	2.32	0.58
42:BU:38:LEU:HD12	42:BU:40:LEU:HD11	1.85	0.58
43:BV:13:SER:O	43:BV:17:VAL:CG1	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:14:LEU:HD22	45:BX:20:TYR:N	2.15	0.58
45:BX:28:LYS:N	45:BX:28:LYS:HE2	2.12	0.58
45:BX:86:ARG:NH2	45:BX:88:LYS:O	2.37	0.58
46:BY:168:GLU:HG2	46:BY:169:GLU:N	2.19	0.58
47:BZ:27:GLU:CD	47:BZ:69:PHE:HD1	2.06	0.58
3:AD:19:G:N2	3:AD:57:G:C1'	2.67	0.58
24:BA:164:U:H2'	24:BA:164:U:O2	2.02	0.58
25:BB:3:C:C2	25:BB:118:G:C2	2.92	0.58
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.67	0.57
1:AA:1157:A:C6	1:AA:1180:A:C5	2.91	0.57
1:AA:1317:C:OP1	1:AA:1317:C:C6	2.57	0.57
1:AA:198:G:C2	1:AA:199:G:N9	2.72	0.57
1:AA:245:C:C2	1:AA:284:G:C2	2.91	0.57
1:AA:109:A:N7	1:AA:326:G:C4	2.71	0.57
1:AA:438:G:C5'	6:AG:123:HIS:HD1	2.17	0.57
1:AA:484:G:O2'	1:AA:485:G:OP2	2.18	0.57
1:AA:488:C:H2'	1:AA:489:C:C6	2.39	0.57
1:AA:509:A:H5'	6:AG:54:TYR:CD2	2.37	0.57
1:AA:735:C:H5'	20:AU:71:LYS:HD3	1.86	0.57
1:AA:954:G:C5	1:AA:955:U:C4	2.92	0.57
3:AD:6:G:C6	3:AD:68:U:N3	2.71	0.57
4:AE:70:PHE:HA	4:AE:163:PHE:O	2.04	0.57
4:AE:47:THR:HG23	4:AE:202:PRO:HD2	1.86	0.57
4:AE:54:THR:HG23	4:AE:199:TYR:HB3	1.86	0.57
4:AE:69:LEU:HD11	4:AE:71:VAL:HG23	1.86	0.57
4:AE:74:LYS:HD2	4:AE:76:GLN:HB2	1.86	0.57
4:AE:68:ILE:O	4:AE:90:MET:HB3	2.04	0.57
5:AF:112:SER:HB3	5:AF:115:LEU:HD12	1.85	0.57
5:AF:22:TRP:HZ3	5:AF:32:LEU:HD12	1.69	0.57
5:AF:22:TRP:CZ2	5:AF:33:LEU:HG	2.38	0.57
5:AF:84:ILE:HG13	5:AF:101:LEU:HD13	1.86	0.57
6:AG:102:ASP:HB2	6:AG:136:PRO:HA	1.85	0.57
6:AG:154:ASN:N	6:AG:154:ASN:ND2	2.50	0.57
6:AG:41:GLY:O	6:AG:43:HIS:N	2.36	0.57
1:AA:591:U:OP1	10:AK:30:ARG:NH2	2.37	0.57
10:AK:63:LEU:O	10:AK:64:LYS:HB2	2.04	0.57
11:AL:112:LYS:HG3	11:AL:117:HIS:CA	2.34	0.57
12:AM:46:ARG:HD3	12:AM:64:GLU:CB	2.34	0.57
15:AP:81:LEU:CD2	15:AP:82:MET:N	2.66	0.57
1:AA:728:A:C8	17:AR:54:ARG:NH2	2.70	0.57
18:AS:8:ARG:O	18:AS:9:PHE:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:59:ILE:HG13	19:AT:60:ILE:N	2.19	0.57
19:AT:88:TYR:CA	19:AT:91:ARG:NH2	2.67	0.57
21:AV:11:VAL:O	21:AV:12:ASP:C	2.41	0.57
22:AW:53:LEU:HD23	22:AW:53:LEU:N	2.18	0.57
22:AW:55:ILE:O	22:AW:56:MET:C	2.42	0.57
22:AW:76:ALA:O	22:AW:77:ALA:C	2.41	0.57
49:B2:6:VAL:HG21	49:B2:56:VAL:HG23	1.86	0.57
49:B2:8:LEU:HA	49:B2:54:VAL:CG2	2.34	0.57
52:B5:11:LEU:HD22	54:B7:35:GLN:NE2	2.09	0.57
24:BA:126:A:OP1	53:B6:18:PHE:CD1	2.57	0.57
55:B8:10:ILE:CD1	55:B8:34:GLN:NE2	2.67	0.57
24:BA:1012:U:O2'	24:BA:1142(A):A:H5'	2.04	0.57
24:BA:1022:G:C2'	24:BA:1025:G:O6	2.49	0.57
24:BA:1029:A:H2'	24:BA:1030:G:C5'	2.33	0.57
24:BA:1249:U:O5'	24:BA:1249:U:H6	1.87	0.57
24:BA:1476:C:N4	24:BA:1516:U:H2'	2.15	0.57
24:BA:1593:G:H2'	24:BA:1594:G:C8	2.39	0.57
24:BA:1672:C:H6	24:BA:1673:U:H5''	1.69	0.57
24:BA:1683:C:C2	24:BA:1684:C:C5	2.91	0.57
24:BA:118:A:C5	24:BA:177:G:N2	2.71	0.57
24:BA:1819:A:OP2	27:BD:157:ARG:CA	2.51	0.57
24:BA:1861:G:N2	24:BA:1862:G:N9	2.51	0.57
24:BA:1786:A:C5'	24:BA:1938:A:H61	2.17	0.57
24:BA:1954:G:O2'	24:BA:1955:U:H5'	2.04	0.57
24:BA:2034:U:C3'	24:BA:2035:G:H5'	2.34	0.57
24:BA:222:A:N7	24:BA:224:G:C5	2.72	0.57
24:BA:2307:G:N7	24:BA:2308:G:N3	2.52	0.57
24:BA:2325:G:N2	24:BA:2326:C:C2	2.72	0.57
24:BA:242:G:O2'	24:BA:243:U:C6	2.57	0.57
24:BA:243:U:H2'	24:BA:243:U:O2	2.03	0.57
24:BA:2448:A:P	24:BA:2499:C:OP2	2.62	0.57
24:BA:2850:A:C2	38:BQ:61:HIS:NE2	2.71	0.57
24:BA:306:U:C5	24:BA:307:G:C4	2.91	0.57
24:BA:445:C:O2'	24:BA:449:A:C8	2.56	0.57
24:BA:532:A:OP1	24:BA:2021:C:N4	2.27	0.57
24:BA:616:A:H2'	24:BA:617:G:N3	2.19	0.57
24:BA:750:A:OP1	43:BV:88:ARG:NH1	2.38	0.57
24:BA:75:G:H4'	48:B1:50:ARG:HH12	1.68	0.57
24:BA:76:C:O2'	24:BA:77:C:H5'	2.04	0.57
24:BA:881:G:H2'	24:BA:882:G:O4'	2.04	0.57
25:BB:82:G:C4	25:BB:83:G:N7	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:206:LEU:HD22	27:BD:207:GLY:N	2.19	0.57
24:BA:2512:C:OP1	28:BE:122:PHE:CB	2.52	0.57
28:BE:199:ARG:N	28:BE:200:GLU:OE2	2.37	0.57
29:BF:185:ASP:HA	29:BF:188:ARG:CG	2.34	0.57
29:BF:56:GLU:O	29:BF:59:TYR:N	2.37	0.57
30:BG:15:VAL:CG2	30:BG:16:ARG:N	2.67	0.57
30:BG:22:ARG:HH21	30:BG:22:ARG:C	2.07	0.57
31:BH:106:THR:OG1	31:BH:113:VAL:HG21	2.03	0.57
31:BH:11:VAL:HG22	31:BH:11:VAL:O	2.04	0.57
35:BN:17:ARG:CZ	35:BN:98:VAL:CG2	2.81	0.57
36:BO:122:PRO:HB3	36:BO:124:LYS:HZ3	1.67	0.57
36:BO:32:THR:OG1	36:BO:35:HIS:CE1	2.57	0.57
36:BO:81:GLN:HA	36:BO:81:GLN:OE1	2.03	0.57
38:BQ:105:ARG:C	38:BQ:107:ASP:H	2.07	0.57
39:BR:24:LEU:HD23	39:BR:25:ARG:N	2.18	0.57
40:BS:67:SER:HA	40:BS:75:ILE:CG2	2.34	0.57
43:BV:50:VAL:HG11	43:BV:103:ILE:CG1	2.34	0.57
44:BW:73:ARG:HG2	44:BW:74:PRO:N	2.19	0.57
44:BW:8:ILE:H	44:BW:9:LEU:HD12	1.69	0.57
45:BX:32:PRO:CB	45:BX:34:LYS:HG3	2.32	0.57
45:BX:75:ILE:H	45:BX:100:ALA:HB1	1.69	0.57
46:BY:23:LYS:HA	46:BY:39:VAL:O	2.03	0.57
46:BY:29:TYR:CD2	46:BY:89:PHE:CE2	2.92	0.57
46:BY:82:ARG:HG2	46:BY:83:PRO:N	2.19	0.57
25:BB:75:G:N2	46:BY:87:ASP:OD1	2.36	0.57
25:BB:12:C:C5'	47:BZ:74:ARG:NE	2.67	0.57
26:BC:46:LYS:HE2	26:BC:210:ARG:HD3	1.86	0.57
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.04	0.57
1:AA:1201:A:C2'	1:AA:1202:G:OP2	2.52	0.57
1:AA:949:A:H1'	1:AA:1364:U:N3	2.19	0.57
1:AA:1536:C:C2'	1:AA:1537:U:C5	2.73	0.57
1:AA:15:G:C2'	1:AA:16:A:H8	2.14	0.57
1:AA:28:G:O2'	1:AA:296:U:OP1	2.18	0.57
1:AA:366:C:O2'	1:AA:367:U:OP1	2.22	0.57
1:AA:555:C:H5''	1:AA:556:C:OP2	2.04	0.57
1:AA:591:U:O2'	1:AA:592:G:O4'	2.21	0.57
1:AA:729:A:H2	1:AA:765:G:H1'	1.69	0.57
1:AA:575:G:C6	1:AA:821:G:N7	2.72	0.57
1:AA:890:G:C2'	1:AA:891:U:OP2	2.51	0.57
1:AA:935:A:H2'	1:AA:936:C:H6	1.67	0.57
1:AA:953:G:O2'	15:AP:125:ARG:CA	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:976:G:OP1	16:AQ:31:ARG:O	2.21	0.57
2:AC:73:A:O2'	2:AC:74:C:P	2.62	0.57
5:AF:13:GLY:O	5:AF:14:ILE:HG12	2.04	0.57
5:AF:180:ALA:HB1	5:AF:182:ILE:HD11	1.86	0.57
5:AF:30:ARG:HH11	5:AF:31:HIS:H	1.51	0.57
5:AF:88:ARG:HB2	5:AF:101:LEU:HB2	1.86	0.57
7:AH:102:ALA:CB	7:AH:120:THR:CG2	2.77	0.57
1:AA:1350:A:OP2	11:AL:118:LYS:CG	2.53	0.57
11:AL:79:LEU:HD13	11:AL:101:PHE:CD2	2.39	0.57
13:AN:85:ARG:NE	13:AN:113:PRO:HD3	2.20	0.57
14:AO:18:VAL:O	14:AO:19:ARG:CG	2.52	0.57
1:AA:626:U:H5''	18:AS:38:TYR:CD2	2.38	0.57
21:AV:13:ASP:O	21:AV:13:ASP:CG	2.43	0.57
49:B2:17:LYS:HD3	49:B2:18:ASP:N	2.19	0.57
50:B3:1:MET:HE1	50:B3:9:LEU:HD11	1.85	0.57
36:BO:45:LEU:CB	54:B7:59:LYS:HD2	2.33	0.57
24:BA:1011:G:C2'	24:BA:1013:C:H5''	2.34	0.57
24:BA:1021:A:H8	24:BA:1021:A:H3'	1.69	0.57
24:BA:1048:A:N3	24:BA:1048:A:H2'	2.18	0.57
24:BA:1054:A:H8	24:BA:1054:A:O5'	1.87	0.57
24:BA:1093:G:N2	24:BA:1098:A:H62	2.00	0.57
24:BA:1119:C:H2'	24:BA:1120:G:C8	2.39	0.57
24:BA:1139:G:O2'	24:BA:1142(A):A:C2	2.54	0.57
24:BA:1142(A):A:N6	24:BA:1143:A:C8	2.71	0.57
24:BA:1198:U:N3	24:BA:1199:U:O4	2.37	0.57
24:BA:1311:G:C8	24:BA:1311:G:H3'	2.39	0.57
24:BA:1475:G:N1	24:BA:1477:A:N6	2.52	0.57
24:BA:1483:G:C1'	24:BA:1507:A:C2	2.87	0.57
24:BA:1552:G:O2'	24:BA:1553:A:C5'	2.49	0.57
24:BA:1655:A:H2'	24:BA:1656:C:H6	1.68	0.57
24:BA:1664:A:O2'	35:BN:66:LYS:HE2	2.04	0.57
24:BA:1788:C:C6	24:BA:1788:C:H3'	2.39	0.57
24:BA:1803:A:O3'	27:BD:257:LEU:HD13	2.04	0.57
24:BA:182:A:H2'	24:BA:183:C:C6	2.39	0.57
24:BA:191:A:O2'	24:BA:678:C:O2'	2.16	0.57
24:BA:1993:U:C6	24:BA:1993:U:C3'	2.86	0.57
24:BA:2000:G:N1	24:BA:2001:A:C5	2.72	0.57
24:BA:962:G:N2	24:BA:2250:G:H22	2.01	0.57
24:BA:2355:C:H4'	47:BZ:36:ILE:HG21	1.85	0.57
24:BA:2459:A:C3'	24:BA:2460:U:O4'	2.52	0.57
24:BA:2488:A:O2'	24:BA:2489:G:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2526:G:H2'	24:BA:2527:C:H5'	1.85	0.57
24:BA:2583:G:N1	24:BA:2585:U:O4	2.37	0.57
24:BA:2747:G:N2	24:BA:2754:U:C2	2.71	0.57
24:BA:2842:G:H2'	24:BA:2843:G:O4'	2.05	0.57
24:BA:2881:C:H2'	24:BA:2882:A:C8	2.40	0.57
24:BA:308:G:N1	24:BA:309:G:N3	2.52	0.57
24:BA:411:G:N2	24:BA:2408:U:C2	2.72	0.57
24:BA:531:C:N4	41:BT:38:THR:HA	2.18	0.57
24:BA:621:A:H62	24:BA:622:G:H1'	1.69	0.57
24:BA:652:C:C5	24:BA:654:A:OP2	2.57	0.57
24:BA:663:G:H5'	24:BA:664:C:OP2	2.04	0.57
24:BA:6:A:N3	24:BA:7:G:C8	2.72	0.57
24:BA:954:G:O2'	24:BA:955:C:H5'	2.04	0.57
25:BB:7:G:H4'	39:BR:29:PHE:CZ	2.37	0.57
27:BD:106:ILE:O	27:BD:107:ALA:CB	2.52	0.57
27:BD:156:ALA:O	27:BD:157:ARG:C	2.42	0.57
27:BD:157:ARG:HH11	27:BD:178:PRO:CD	2.17	0.57
27:BD:210:GLY:O	27:BD:211:ARG:C	2.42	0.57
27:BD:64:ILE:HD13	27:BD:65:ILE:N	2.19	0.57
29:BF:169:ASN:ND2	29:BF:171:PRO:HG2	2.19	0.57
29:BF:199:TRP:O	29:BF:203:GLN:OE1	2.22	0.57
30:BG:101:ILE:C	30:BG:101:ILE:HD13	2.24	0.57
30:BG:39:ILE:HD13	30:BG:92:VAL:CG1	2.34	0.57
31:BH:148:ILE:O	31:BH:151:ILE:HG23	2.04	0.57
31:BH:6:ARG:H	31:BH:7:LEU:HD23	1.70	0.57
34:BM:21:LYS:CB	34:BM:26:LEU:HD22	2.34	0.57
35:BN:10:VAL:HG13	35:BN:17:ARG:HA	1.86	0.57
35:BN:10:VAL:HG12	35:BN:17:ARG:C	2.24	0.57
39:BR:68:GLN:O	39:BR:69:VAL:C	2.43	0.57
40:BS:7:ILE:O	40:BS:10:VAL:HG23	2.03	0.57
40:BS:18:ASP:HB3	40:BS:81:PRO:HA	1.86	0.57
24:BA:2876:G:P	40:BS:2:ASN:HB3	2.44	0.57
40:BS:30:VAL:C	40:BS:32:TYR:OH	2.42	0.57
42:BU:23:GLU:CA	42:BU:93:GLU:HB3	2.34	0.57
42:BU:25:LEU:HD23	42:BU:28:GLU:HB3	1.86	0.57
42:BU:64:HIS:CB	42:BU:96:ILE:HG22	2.33	0.57
44:BW:49:VAL:HG12	44:BW:88:LYS:CG	2.34	0.57
26:BC:142:ALA:O	26:BC:144:THR:HG23	2.04	0.57
24:BA:1416:G:H2'	24:BA:1417:C:C6	2.39	0.57
24:BA:1578:U:H5''	24:BA:1580:A:H2	1.69	0.57
24:BA:1582:C:C2	24:BA:1583:A:N7	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.38	0.57
1:AA:112:G:C2'	1:AA:113:G:H5'	2.35	0.57
1:AA:1206:G:H2'	1:AA:1207:G:C8	2.39	0.57
1:AA:1314:C:OP1	21:AV:7:LYS:HE2	2.05	0.57
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.04	0.57
1:AA:1353:G:C2	1:AA:1370:G:C2	2.93	0.57
1:AA:237:C:P	19:AT:40:LYS:HE3	2.44	0.57
1:AA:402:G:H4'	1:AA:620:C:N3	2.19	0.57
1:AA:404:U:H2'	1:AA:405:U:H6	1.68	0.57
1:AA:452:A:N6	1:AA:480:U:N3	2.52	0.57
1:AA:661:G:N2	1:AA:745:C:C2	2.72	0.57
1:AA:843:U:C2'	1:AA:848:C:OP1	2.53	0.57
1:AA:908:A:H2'	1:AA:909:A:H8	1.70	0.57
1:AA:945:G:C2	1:AA:946:A:C8	2.92	0.57
1:AA:961:U:H5	1:AA:983:A:C5	2.22	0.57
2:AC:18:G:C6	2:AC:57:A:N6	2.72	0.57
2:AC:76:A:HO3'	2:AC:76:A:P	2.27	0.57
4:AE:207:ALA:O	4:AE:210:SER:HB3	2.04	0.57
4:AE:22:LYS:HA	4:AE:40:HIS:HE1	1.68	0.57
5:AF:38:ARG:CG	5:AF:94:LEU:HD21	2.35	0.57
6:AG:121:VAL:HB	6:AG:136:PRO:HG3	1.85	0.57
6:AG:147:ALA:CB	6:AG:181:MET:O	2.51	0.57
6:AG:38:TYR:O	6:AG:39:PRO:O	2.21	0.57
8:AI:14:LEU:HD12	8:AI:15:ASP:O	2.04	0.57
8:AI:6:VAL:O	8:AI:6:VAL:CG1	2.53	0.57
9:AJ:41:ARG:HH11	9:AJ:41:ARG:HG2	1.69	0.57
10:AK:9:MET:O	10:AK:11:THR:N	2.36	0.57
10:AK:114:THR:HG21	10:AK:129:VAL:HG13	1.84	0.57
10:AK:6:ILE:CD1	10:AK:85:ARG:HD3	2.34	0.57
11:AL:20:ARG:O	11:AL:21:PRO:C	2.38	0.57
12:AM:27:ALA:HB2	12:AM:85:LEU:CG	2.33	0.57
13:AN:92:GLU:C	13:AN:94:ALA:N	2.55	0.57
14:AO:69:TYR:HB3	14:AO:99:HIS:HB3	1.86	0.57
14:AO:6:THR:OG1	14:AO:9:GLN:HG3	2.04	0.57
14:AO:84:LEU:HG	14:AO:85:ILE:N	2.20	0.57
17:AR:81:LEU:HD23	17:AR:85:LEU:CD1	2.34	0.57
19:AT:69:LYS:HG2	19:AT:69:LYS:O	2.04	0.57
19:AT:76:LEU:HD21	19:AT:79:SER:N	2.19	0.57
19:AT:81:ARG:HG2	19:AT:84:LEU:HD21	1.87	0.57
20:AU:78:LEU:O	20:AU:79:LEU:HB3	2.04	0.57
22:AW:13:LEU:C	22:AW:17:ARG:HH21	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:57:ARG:O	22:AW:58:LYS:C	2.43	0.57
48:B1:27:LEU:HA	48:B1:30:LEU:CD1	2.34	0.57
49:B2:5:LYS:CE	49:B2:57:GLU:HB2	2.34	0.57
24:BA:397:G:OP1	50:B3:40:HIS:C	2.41	0.57
50:B3:44:THR:CG2	50:B3:45:GLY:N	2.68	0.57
50:B3:65:ASP:CA	50:B3:68:ARG:HH12	2.16	0.57
54:B7:26:LYS:HB2	54:B7:44:LYS:HZ2	1.69	0.57
24:BA:1022:G:O2'	24:BA:1023:U:P	2.62	0.57
24:BA:1071:G:O2'	24:BA:1072:C:H5'	2.03	0.57
24:BA:1260:G:H2'	24:BA:1261:C:H5'	1.86	0.57
24:BA:1510:A:H5'	24:BA:1511:A:OP2	2.04	0.57
24:BA:1556:C:C2	24:BA:1557:C:C5	2.92	0.57
24:BA:1613:G:C3'	24:BA:1614:A:C5'	2.78	0.57
24:BA:1703:G:H2'	24:BA:1704:G:H5'	1.85	0.57
24:BA:1953:A:H1'	24:BA:2560:C:O4'	2.04	0.57
24:BA:1966:A:O2'	24:BA:1967:C:P	2.62	0.57
24:BA:196:A:H3'	24:BA:197:A:C5'	2.31	0.57
24:BA:2074:U:C2	24:BA:2075:U:H5	2.23	0.57
24:BA:2345:G:C2'	24:BA:2346:A:OP2	2.52	0.57
24:BA:2371:G:H2'	24:BA:2372:G:H8	1.69	0.57
24:BA:2397:G:O2'	24:BA:2398:U:H5'	2.04	0.57
24:BA:2569:G:N3	24:BA:2570:G:C8	2.71	0.57
24:BA:270(B):A:O4'	24:BA:270(B):A:OP2	2.21	0.57
24:BA:271:G:C2	24:BA:272:G:C8	2.92	0.57
24:BA:2839:G:C6	24:BA:2840:C:C4	2.93	0.57
24:BA:349:G:OP2	24:BA:349:G:O4'	2.21	0.57
24:BA:402:A:N3	24:BA:402:A:C2'	2.66	0.57
24:BA:407:G:N2	24:BA:421:U:O2	2.38	0.57
24:BA:416:C:C5	24:BA:417:C:C4	2.92	0.57
24:BA:428:A:H2'	24:BA:428:A:N3	2.19	0.57
24:BA:536:A:H2'	24:BA:537:C:O4'	2.04	0.57
24:BA:775:G:C8	24:BA:794:G:C5	2.92	0.57
24:BA:803:U:O2'	24:BA:804:A:H5'	2.03	0.57
24:BA:94:G:H21	48:B1:42:ASN:CG	2.07	0.57
24:BA:953:A:H2'	24:BA:954:G:C5'	2.19	0.57
24:BA:979:G:H2'	24:BA:982:C:H42	1.69	0.57
25:BB:32:C:H2'	25:BB:33:G:C8	2.40	0.57
25:BB:7:G:OP1	39:BR:29:PHE:CZ	2.58	0.57
27:BD:147:LEU:H	27:BD:154:LYS:HD2	1.70	0.57
27:BD:134:ARG:C	27:BD:168:ARG:HH12	2.06	0.57
27:BD:52:ARG:O	27:BD:218:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:37:LEU:HD12	27:BD:38:LYS:N	2.19	0.57
28:BE:173:VAL:HG11	28:BE:184:VAL:C	2.25	0.57
28:BE:109:LYS:N	28:BE:191:PRO:HD3	2.18	0.57
29:BF:121:GLY:HA2	29:BF:191:ARG:HH11	1.69	0.57
30:BG:12:TYR:CE1	30:BG:13:GLU:HG3	2.38	0.57
30:BG:14:GLU:CD	30:BG:14:GLU:C	2.63	0.57
30:BG:79:ASN:O	30:BG:81:LYS:N	2.36	0.57
31:BH:113:VAL:HG12	31:BH:113:VAL:O	2.04	0.57
31:BH:69:ARG:O	31:BH:73:ALA:HB2	2.03	0.57
33:BL:51:ALA:CA	33:BL:80:LYS:HB3	2.34	0.57
33:BL:52:ILE:O	33:BL:72:PRO:HB3	2.03	0.57
34:BM:17:ASP:OD1	34:BM:17:ASP:C	2.42	0.57
34:BM:34:LEU:HD21	34:BM:120:LEU:CB	2.29	0.57
34:BM:45:ASN:O	34:BM:46:VAL:CB	2.51	0.57
35:BN:76:ALA:HB2	40:BS:76:PHE:HD1	1.69	0.57
36:BO:76:LYS:HG3	36:BO:101:VAL:HG21	1.86	0.57
36:BO:137:LYS:HA	36:BO:140:ALA:HB3	1.86	0.57
37:BP:34:LEU:HD21	37:BP:118:LEU:HD22	1.86	0.57
24:BA:2708:G:OP1	38:BQ:68:ARG:HG3	2.03	0.57
39:BR:53:SER:O	39:BR:54:LEU:C	2.43	0.57
39:BR:58:LEU:H	39:BR:65:VAL:CG2	2.15	0.57
39:BR:89:ARG:CG	39:BR:89:ARG:NH2	2.68	0.57
40:BS:23:ARG:CZ	40:BS:88:ILE:O	2.52	0.57
40:BS:30:VAL:HG23	40:BS:90:GLN:CA	2.27	0.57
45:BX:99:CYS:O	45:BX:101:LYS:HD2	2.04	0.57
45:BX:69:ALA:HB3	45:BX:71:LYS:HZ3	1.68	0.57
46:BY:49:ARG:O	46:BY:51:ALA:N	2.36	0.57
32:BK:97:ILE:O	32:BK:101:LEU:HD23	2.04	0.57
32:BK:76:THR:HA	32:BK:141:LYS:CE	2.30	0.57
26:BC:160:ARG:CD	26:BC:161:ILE:H	1.99	0.57
26:BC:163:PHE:HZ	26:BC:195:ALA:HB3	1.67	0.57
26:BC:32:LEU:CD2	26:BC:220:PRO:HG2	2.33	0.57
26:BC:77:ILE:HG21	26:BC:123:VAL:CG1	2.34	0.57
27:BD:79:VAL:CG2	27:BD:115:GLN:HG3	2.33	0.57
40:BS:43:GLN:CD	40:BS:43:GLN:H	2.06	0.57
14:AO:127:GLU:OE2	14:AO:127:GLU:O	2.21	0.57
1:AA:1135:U:O2	1:AA:1137:C:C2	2.57	0.57
1:AA:1200:C:O4'	1:AA:1200:C:OP1	2.23	0.57
1:AA:1202:G:O2'	1:AA:1203:C:H5'	2.04	0.57
1:AA:123:C:O2'	1:AA:290:C:C1'	2.44	0.57
1:AA:1319:A:C2	1:AA:1361:G:N2	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1376:U:C2	1:AA:1377:A:N7	2.73	0.57
1:AA:1405:G:H1'	1:AA:1519:A:C4'	2.33	0.57
1:AA:17:U:O2'	1:AA:18:C:H5'	2.04	0.57
1:AA:28:G:O2'	1:AA:296:U:H5''	2.05	0.57
1:AA:113:G:H1'	1:AA:354:G:C5'	2.34	0.57
1:AA:465:A:C8	1:AA:467:G:C6	2.93	0.57
1:AA:373:A:C2	1:AA:482:A:N6	2.72	0.57
1:AA:501:C:H2'	1:AA:502:G:C8	2.39	0.57
1:AA:67:C:H4'	1:AA:172:A:O4'	2.04	0.57
1:AA:841:U:O2	1:AA:841:U:H2'	2.04	0.57
1:AA:745:C:C5'	1:AA:851:G:N3	2.66	0.57
1:AA:867:G:N2	1:AA:868:C:C2	2.72	0.57
1:AA:914:A:H2'	1:AA:915:A:H8	1.61	0.57
1:AA:996:A:N6	1:AA:1046:A:H1'	2.19	0.57
3:AD:76:A:C2	24:BA:2431:U:O2'	2.53	0.57
4:AE:15:VAL:HG23	4:AE:16:HIS:HD1	1.65	0.57
4:AE:102:LEU:HD22	4:AE:176:GLU:CB	2.34	0.57
5:AF:151:VAL:HG22	5:AF:200:ALA:HB1	1.85	0.57
5:AF:151:VAL:O	5:AF:168:ALA:O	2.22	0.57
1:AA:1256:A:H5''	5:AF:27:LYS:HZ3	1.67	0.57
5:AF:29:TYR:HE1	12:AM:65:LEU:HD11	1.69	0.57
6:AG:163:GLU:HG3	6:AG:164:ALA:N	2.19	0.57
7:AH:145:LYS:HA	7:AH:148:VAL:CG2	2.34	0.57
7:AH:52:PRO:O	7:AH:55:VAL:N	2.37	0.57
8:AI:36:ARG:O	8:AI:65:VAL:HB	2.04	0.57
8:AI:79:LEU:HD12	8:AI:88:VAL:CG2	2.34	0.57
10:AK:69:ARG:NH1	10:AK:74:PRO:O	2.38	0.57
12:AM:39:PRO:O	12:AM:40:LEU:C	2.43	0.57
14:AO:117:ARG:HH22	14:AO:124:LYS:HG3	1.69	0.57
17:AR:79:ARG:NH1	17:AR:79:ARG:HB3	2.20	0.57
20:AU:29:PHE:CE2	20:AU:39:VAL:HG11	2.40	0.57
20:AU:74:ARG:HB3	20:AU:81:PHE:CD2	2.36	0.57
22:AW:27:LYS:HD3	22:AW:28:ALA:N	2.19	0.57
50:B3:65:ASP:CA	50:B3:68:ARG:HH22	2.17	0.57
51:B4:12:SER:OG	51:B4:13:LYS:N	2.36	0.57
52:B5:25:LYS:O	52:B5:26:ASN:CB	2.53	0.57
52:B5:33:LYS:HE3	52:B5:34:LEU:CA	2.33	0.57
53:B6:20:ALA:N	53:B6:23:ARG:NH2	2.53	0.57
53:B6:30:VAL:HG22	53:B6:33:ARG:NH1	2.19	0.57
54:B7:36:LYS:O	54:B7:37:SER:CB	2.51	0.57
24:BA:1131:G:H4'	24:BA:1132:A:OP1	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1164:G:C6	24:BA:1165:U:C4	2.92	0.57
24:BA:1196:C:H4'	24:BA:1226:G:C6	2.39	0.57
24:BA:1225:C:P	42:BU:88:ARG:HH12	2.26	0.57
24:BA:1272:A:H5'	24:BA:1646:C:C5	2.38	0.57
24:BA:1302:A:H3'	24:BA:1303:G:H5'	1.86	0.57
24:BA:1359:A:N6	24:BA:1360:A:C8	2.73	0.57
24:BA:1378:A:O2'	24:BA:1379:A:OP1	2.19	0.57
24:BA:1685:C:H2'	24:BA:1686:C:C6	2.37	0.57
24:BA:1728:G:H2'	24:BA:1728:G:N3	2.20	0.57
24:BA:1857:G:H2'	24:BA:1858:G:C8	2.39	0.57
24:BA:1904:G:C2'	24:BA:1905:C:O5'	2.52	0.57
24:BA:2023:G:N2	24:BA:2041:U:C2	2.72	0.57
24:BA:2287:A:N1	24:BA:2346:A:C6	2.72	0.57
24:BA:2436:G:C6	24:BA:2437:U:N3	2.73	0.57
24:BA:2572:A:H2'	24:BA:2572:A:N3	2.19	0.57
24:BA:2766:G:C2	24:BA:2767:C:C6	2.91	0.57
24:BA:2857:G:H1'	24:BA:2861:G:N2	2.20	0.57
24:BA:2893:G:C1'	24:BA:2894:G:H8	2.15	0.57
24:BA:469:G:O6	53:B6:40:TRP:NE1	2.33	0.57
24:BA:470:A:N3	24:BA:471:A:H1'	2.19	0.57
24:BA:497:A:O5'	24:BA:497:A:H8	1.87	0.57
24:BA:650:C:P	54:B7:21:LYS:NZ	2.78	0.57
24:BA:727:A:C2	24:BA:729:G:C5	2.92	0.57
24:BA:781:A:O2'	27:BD:222:ARG:NH2	2.38	0.57
24:BA:783:A:C6	24:BA:785:G:O4'	2.57	0.57
24:BA:827:U:O5'	24:BA:828:U:N3	2.37	0.57
24:BA:919:G:C2	24:BA:920:G:N9	2.72	0.57
24:BA:945:A:C6	24:BA:2448:A:C2	2.92	0.57
25:BB:75:G:C6	25:BB:102:G:N2	2.73	0.57
27:BD:106:ILE:CB	27:BD:108:PRO:HD3	2.33	0.57
27:BD:175:LEU:HD13	27:BD:176:ARG:N	2.19	0.57
27:BD:181:GLU:HA	27:BD:270:ILE:CB	2.34	0.57
27:BD:141:VAL:O	27:BD:194:GLY:N	2.36	0.57
24:BA:2596:U:O3'	27:BD:242:ARG:HD3	2.04	0.57
27:BD:42:GLY:HA3	27:BD:60:ARG:HH22	1.69	0.57
24:BA:1567:A:C2	27:BD:61:LEU:CD1	2.78	0.57
28:BE:36:ARG:HH21	28:BE:41:LYS:NZ	2.01	0.57
28:BE:49:LEU:HD11	28:BE:76:ARG:HG2	1.86	0.57
29:BF:53:THR:O	29:BF:56:GLU:HG3	2.04	0.57
30:BG:15:VAL:O	30:BG:18:GLU:HB3	2.04	0.57
30:BG:30:GLU:HB3	30:BG:162:THR:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:121:ILE:HD11	31:BH:123:PHE:CE1	2.38	0.57
35:BN:63:VAL:O	35:BN:64:ARG:CB	2.43	0.57
35:BN:70:LYS:HE2	35:BN:102:VAL:HG13	1.85	0.57
36:BO:16:ARG:O	36:BO:16:ARG:HD2	2.04	0.57
36:BO:72:PRO:CB	36:BO:111:ARG:CB	2.81	0.57
36:BO:92:GLU:O	36:BO:93:GLY:C	2.42	0.57
37:BP:137:TYR:OH	46:BY:99:TYR:CZ	2.53	0.57
39:BR:97:ARG:O	39:BR:100:ALA:CB	2.41	0.57
40:BS:53:ARG:HH21	40:BS:100:TYR:HA	1.67	0.57
40:BS:58:ASN:HA	40:BS:61:PHE:CZ	2.39	0.57
41:BT:65:ILE:HG21	41:BT:76:TYR:HE1	1.68	0.57
41:BT:70:ARG:HD2	41:BT:75:ASN:CG	2.24	0.57
42:BU:40:LEU:CA	42:BU:54:GLY:HA3	2.31	0.57
43:BV:23:LEU:HD21	51:B4:26:THR:HA	1.87	0.57
44:BW:40:LYS:HG3	44:BW:51:VAL:HB	1.85	0.57
47:BZ:40:GLN:NE2	47:BZ:57:PHE:HD2	2.02	0.57
47:BZ:53:MET:SD	47:BZ:59:LEU:CD2	2.92	0.57
26:BC:183:GLU:CD	26:BC:183:GLU:N	2.55	0.57
26:BC:39:GLU:HG3	26:BC:41:VAL:H	1.69	0.57
1:AA:1121:U:H6	1:AA:1121:U:O5'	1.87	0.57
1:AA:164:U:H2'	1:AA:165:C:C5	2.39	0.57
26:BC:18:LYS:HE3	26:BC:20:TYR:HA	1.86	0.57
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.23	0.57
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.18	0.57
1:AA:1422:G:O2'	35:BN:49:ARG:NH2	2.38	0.57
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.19	0.57
1:AA:148:G:N2	1:AA:175:C:C4	2.73	0.57
1:AA:193:C:O2'	22:AW:61:SER:HA	2.04	0.57
1:AA:225:C:C2'	1:AA:226:G:H5'	2.34	0.57
1:AA:32:A:H2'	1:AA:33:A:H8	1.65	0.57
1:AA:392:G:N2	1:AA:393:A:H1'	2.19	0.57
1:AA:59:A:H4'	1:AA:388:G:C5'	2.33	0.57
1:AA:646:U:O2'	1:AA:647:C:H5'	2.05	0.57
1:AA:675:A:H2'	1:AA:676:A:O4'	2.05	0.57
1:AA:738:C:C2	1:AA:739:C:C5	2.93	0.57
1:AA:85:U:H2'	1:AA:86:U:C5'	2.34	0.57
1:AA:22:G:O4'	1:AA:885:G:C1'	2.53	0.57
1:AA:934:C:C5	1:AA:1344:C:C2	2.93	0.57
1:AA:952:U:H5'	1:AA:972:C:H41	1.68	0.57
4:AE:104:ASN:O	4:AE:108:ILE:HG12	2.05	0.57
4:AE:169:LYS:CD	4:AE:170:GLU:N	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:97:TRP:CZ2	4:AE:102:LEU:CD1	2.88	0.57
6:AG:105:VAL:CG1	6:AG:120:LEU:HD21	2.34	0.57
6:AG:148:VAL:HG11	6:AG:153:ARG:HA	1.85	0.57
7:AH:115:VAL:HG21	7:AH:118:ILE:HD12	1.85	0.57
9:AJ:149:ARG:HG2	13:AN:59:TYR:CZ	2.40	0.57
9:AJ:75:VAL:HG13	9:AJ:87:VAL:C	2.25	0.57
7:AH:78:HIS:CG	10:AK:104:ARG:HD3	2.39	0.57
15:AP:16:ASP:HA	15:AP:19:LEU:HG	1.85	0.57
17:AR:6:GLU:HG2	17:AR:7:GLU:HG2	1.85	0.57
19:AT:43:LEU:HD13	19:AT:44:ALA:N	2.19	0.57
19:AT:84:LEU:O	19:AT:87:LYS:HB2	2.04	0.57
20:AU:58:LEU:CB	20:AU:62:GLU:HB3	2.32	0.57
1:AA:1320:C:C4	21:AV:72:GLY:HA3	2.39	0.57
22:AW:43:LEU:O	22:AW:46:GLU:HG3	2.05	0.57
22:AW:57:ARG:O	22:AW:59:ALA:N	2.37	0.57
22:AW:45:GLN:H	22:AW:91:LEU:HD12	1.68	0.57
1:AA:1242:C:C5'	23:AX:10:ARG:NH1	2.67	0.57
49:B2:45:GLY:HA2	49:B2:48:GLU:CG	2.34	0.57
51:B4:40:LYS:CG	51:B4:41:PRO:HD2	2.34	0.57
24:BA:1138:G:O2'	24:BA:1139:G:H5'	2.04	0.57
24:BA:1359:A:C8	24:BA:1359:A:C3'	2.87	0.57
24:BA:1401:G:C5	24:BA:1402:C:C5	2.93	0.57
24:BA:1538:G:H22	24:BA:1539:G:H21	1.53	0.57
24:BA:1668:A:N7	24:BA:1674:G:C2	2.72	0.57
24:BA:1735:C:C2	24:BA:1741:C:C5	2.93	0.57
24:BA:1809:A:H8	24:BA:1810:A:O4'	1.87	0.57
24:BA:2017:U:H4'	51:B4:8:LYS:HZ2	1.68	0.57
24:BA:2056:G:C4	24:BA:2577:A:N3	2.73	0.57
24:BA:2286:A:N6	52:B5:29:ASN:O	2.38	0.57
24:BA:2344:U:HO2'	24:BA:2345:G:P	2.26	0.57
24:BA:2358:G:C6	24:BA:2359:C:C4	2.92	0.57
24:BA:2392:A:C2'	24:BA:2393:A:O5'	2.51	0.57
24:BA:2553:G:H5''	24:BA:2554:U:OP2	2.05	0.57
24:BA:270(B):A:H5'	24:BA:270(C):C:OP1	2.05	0.57
24:BA:404:C:H5'	24:BA:406:G:C1'	2.35	0.57
24:BA:591:C:O2'	54:B7:1:MET:HB3	2.04	0.57
24:BA:596:G:N2	24:BA:597:U:H1'	2.20	0.57
24:BA:729:G:N7	24:BA:730:C:C6	2.71	0.57
24:BA:861:A:H2'	24:BA:862:G:C4'	2.33	0.57
24:BA:866:A:N3	24:BA:866:A:C2'	2.64	0.57
24:BA:989:G:C2'	24:BA:990:A:OP2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:996:A:H4'	41:BT:93:LYS:CG	2.24	0.57
24:BA:996:A:C2	24:BA:997:G:N7	2.72	0.57
27:BD:117:VAL:HG13	27:BD:129:ASN:OD1	2.05	0.57
28:BE:20:ALA:O	28:BE:21:VAL:HG12	2.05	0.57
29:BF:41:LEU:HD13	29:BF:44:ARG:NH1	2.18	0.57
30:BG:141:PHE:CD2	30:BG:145:THR:HG22	2.39	0.57
30:BG:166:ASP:O	30:BG:168:GLU:N	2.38	0.57
30:BG:1:MET:HB3	30:BG:2:PRO:CD	2.35	0.57
30:BG:45:GLU:O	30:BG:47:LYS:N	2.32	0.57
30:BG:53:LEU:HD23	30:BG:71:THR:N	2.19	0.57
31:BH:106:THR:OG1	31:BH:113:VAL:CG2	2.53	0.57
32:BK:22:LYS:O	32:BK:23:PRO:O	2.23	0.57
32:BK:38:LEU:HD13	32:BK:39:ALA:CB	2.34	0.57
33:BL:12:LEU:CD1	33:BL:23:VAL:HG21	2.34	0.57
33:BL:18:THR:CG2	33:BL:34:ILE:HG22	2.33	0.57
34:BM:3:THR:O	34:BM:4:TYR:HB2	2.05	0.57
34:BM:72:TYR:O	34:BM:72:TYR:CD2	2.57	0.57
35:BN:79:PHE:CE2	40:BS:75:ILE:HD11	2.40	0.57
37:BP:120:ILE:HA	37:BP:123:HIS:HB3	1.87	0.57
37:BP:83:MET:O	37:BP:83:MET:CE	2.53	0.57
37:BP:77:LYS:CG	37:BP:87:LYS:HA	2.35	0.57
38:BQ:63:ARG:HH22	38:BQ:77:ARG:HA	1.70	0.57
39:BR:40:ILE:HG13	39:BR:47:THR:HA	1.86	0.57
41:BT:93:LYS:NZ	41:BT:93:LYS:N	2.52	0.57
42:BU:14:VAL:HG11	42:BU:19:LYS:CG	2.34	0.57
42:BU:23:GLU:HA	42:BU:93:GLU:CB	2.34	0.57
43:BV:20:VAL:HG11	43:BV:47:VAL:CG1	2.33	0.57
44:BW:93:GLU:HG3	44:BW:94:GLY:N	2.19	0.57
46:BY:168:GLU:CG	46:BY:169:GLU:N	2.67	0.57
46:BY:10:ARG:CB	46:BY:36:LYS:HD2	2.34	0.57
47:BZ:76:GLY:CA	47:BZ:78:TYR:HE1	2.17	0.57
26:BC:108:MET:HG3	26:BC:110:PHE:CE2	2.39	0.57
32:BK:135:GLU:OE1	32:BK:135:GLU:N	2.32	0.57
45:BX:108:THR:HG22	45:BX:109:GLU:CD	2.24	0.57
1:AA:1060:C:H2'	1:AA:1061:G:C8	2.40	0.57
1:AA:1186:G:H21	16:AQ:61:TRP:C	2.06	0.57
1:AA:1483:A:H8	1:AA:1483:A:O5'	1.88	0.57
1:AA:230:G:N1	1:AA:231:G:C4	2.72	0.57
1:AA:42:G:H2'	1:AA:43:C:H6	1.66	0.57
1:AA:792:A:O2'	1:AA:794:A:N7	2.23	0.57
1:AA:770:C:C1'	1:AA:900:A:H2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:N4	16:AQ:18:VAL:CB	2.65	0.57
2:AC:33:U:OP2	11:AL:128:ARG:O	2.22	0.57
2:AC:75:C:O5'	2:AC:76:A:P	2.62	0.57
3:AD:73:A:C2	3:AD:74:C:O4'	2.54	0.57
4:AE:19:HIS:HD2	4:AE:20:GLU:OE1	1.87	0.57
4:AE:239:VAL:O	4:AE:240:GLN:CB	2.52	0.57
5:AF:121:ALA:HB2	5:AF:187:ALA:HB1	1.85	0.57
5:AF:172:ARG:CZ	5:AF:172:ARG:HB3	2.35	0.57
6:AG:201:GLN:O	6:AG:205:GLU:HG3	2.05	0.57
7:AH:37:ARG:HH12	7:AH:111:GLU:HG3	1.68	0.57
7:AH:58:ALA:HA	7:AH:61:TYR:HD2	1.69	0.57
8:AI:79:LEU:HD12	8:AI:88:VAL:HG21	1.87	0.57
9:AJ:118:VAL:HG12	9:AJ:122:HIS:CE1	2.39	0.57
9:AJ:71:PRO:CD	9:AJ:96:GLN:HG3	2.35	0.57
10:AK:20:TYR:CE2	10:AK:75:ARG:HD2	2.40	0.57
1:AA:1180:A:OP1	11:AL:102:LEU:HD12	2.04	0.57
13:AN:101:SER:O	13:AN:102:GLY:C	2.41	0.57
13:AN:11:LYS:HB3	13:AN:13:GLN:OE1	2.04	0.57
18:AS:55:ARG:HA	18:AS:55:ARG:HE	1.68	0.57
20:AU:75:ILE:O	20:AU:76:LEU:C	2.42	0.57
23:AX:20:LYS:HE3	23:AX:21:TYR:CZ	2.39	0.57
48:B1:59:LEU:O	48:B1:59:LEU:HD12	2.03	0.57
50:B3:59:PHE:CA	50:B3:62:ARG:NH2	2.68	0.57
50:B3:68:ARG:H	50:B3:68:ARG:NH1	2.01	0.57
52:B5:28:ARG:HG3	52:B5:29:ASN:N	2.19	0.57
54:B7:5:LYS:O	54:B7:7:HIS:CD2	2.57	0.57
24:BA:1024:G:N3	24:BA:1025:G:N7	2.51	0.57
24:BA:1119:C:H2'	24:BA:1120:G:H8	1.70	0.57
24:BA:1308:A:H2'	24:BA:1309:G:H8	1.66	0.57
24:BA:1467:C:N4	24:BA:1468:C:N4	2.52	0.57
24:BA:1592:C:O2'	24:BA:1593:G:O4'	2.19	0.57
24:BA:1626:G:H22	24:BA:1634:A:H1'	1.64	0.57
24:BA:1725:G:C4	24:BA:1741:C:N4	2.73	0.57
24:BA:1775:U:N1	27:BD:208:LYS:NZ	2.53	0.57
24:BA:2021:C:H5''	24:BA:2021:C:H6	1.70	0.57
24:BA:2033:A:O2'	24:BA:2034:U:P	2.60	0.57
24:BA:2208:U:C3'	24:BA:2209:C:H5'	2.35	0.57
24:BA:2245:U:O2	24:BA:2435:A:C8	2.57	0.57
24:BA:224:G:C2	24:BA:225:A:N9	2.72	0.57
24:BA:917:A:N1	24:BA:2268:A:N1	2.51	0.57
24:BA:1966:A:N3	24:BA:2593:U:C5'	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2631:G:N2	24:BA:2788:C:C2	2.72	0.57
24:BA:2848:G:N2	24:BA:2867:G:O2'	2.38	0.57
24:BA:321:G:H4'	29:BF:165:ARG:O	2.05	0.57
24:BA:391:G:H2'	24:BA:392:C:C5	2.39	0.57
24:BA:566:U:C6	24:BA:567:A:C8	2.92	0.57
24:BA:627:A:H5''	36:BO:75:ILE:CG2	2.34	0.57
24:BA:6:A:C2	24:BA:7:G:C8	2.92	0.57
24:BA:762:U:O2	24:BA:762:U:H2'	2.03	0.57
24:BA:76:C:C2'	24:BA:77:C:H5'	2.35	0.57
25:BB:112:G:H3'	25:BB:113:C:C6	2.40	0.57
27:BD:134:ARG:CA	27:BD:168:ARG:NH1	2.67	0.57
27:BD:226:MET:HE1	27:BD:237:GLU:H	1.70	0.57
27:BD:230:ASP:O	27:BD:231:HIS:C	2.43	0.57
28:BE:51:PHE:CZ	28:BE:75:VAL:HG22	2.40	0.57
29:BF:12:LEU:O	29:BF:14:PRO:CD	2.49	0.57
29:BF:36:VAL:HG21	29:BF:183:VAL:CG2	2.32	0.57
29:BF:200:GLU:HG3	29:BF:201:VAL:H	1.69	0.57
30:BG:74:LYS:N	30:BG:88:ILE:HD11	2.20	0.57
31:BH:120:GLY:C	31:BH:135:GLY:HA2	2.25	0.57
31:BH:45:VAL:HG13	31:BH:50:VAL:CG1	2.32	0.57
32:BK:32:PRO:O	32:BK:33:ARG:C	2.41	0.57
33:BL:16:LYS:O	33:BL:17:ALA:HB2	2.05	0.57
33:BL:51:ALA:O	33:BL:52:ILE:HG12	2.04	0.57
34:BM:107:LEU:HB3	34:BM:117:PHE:CZ	2.40	0.57
34:BM:33:LEU:HD11	34:BM:52:VAL:CB	2.34	0.57
35:BN:6:THR:HA	35:BN:7:TYR:CE1	2.39	0.57
37:BP:77:LYS:HB3	37:BP:78:PRO:HD3	1.84	0.57
38:BQ:34:ILE:O	38:BQ:113:LEU:HD22	2.03	0.57
38:BQ:96:ARG:CG	38:BQ:98:LEU:HD11	2.35	0.57
40:BS:104:ASN:O	40:BS:107:ASP:HB2	2.03	0.57
40:BS:33:LYS:HB2	40:BS:87:ASP:HB3	1.86	0.57
40:BS:45:PHE:HE1	40:BS:86:ILE:HG22	1.70	0.57
41:BT:17:ILE:CD1	41:BT:20:LEU:HD11	2.32	0.57
41:BT:37:GLU:O	41:BT:38:THR:C	2.41	0.57
24:BA:1156:A:P	41:BT:55:ARG:HE	2.26	0.57
24:BA:30:G:OP1	41:BT:8:VAL:HG22	2.04	0.57
42:BU:18:LEU:HB2	42:BU:66:ARG:HH22	1.69	0.57
44:BW:29:TRP:CH2	44:BW:78:LYS:HE3	2.39	0.57
44:BW:57:LEU:HD23	44:BW:57:LEU:C	2.24	0.57
44:BW:30:VAL:O	44:BW:77:LYS:HB3	2.04	0.57
45:BX:19:LYS:NZ	45:BX:39:VAL:HB	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:31:LEU:O	45:BX:33:LYS:N	2.38	0.57
46:BY:102:LEU:HD13	46:BY:137:ILE:HB	1.87	0.57
46:BY:141:VAL:HB	46:BY:150:LEU:HD11	1.86	0.57
46:BY:19:ARG:N	46:BY:23:LYS:O	2.38	0.57
26:BC:197:GLU:O	26:BC:200:LYS:HB3	2.04	0.57
26:BC:60:GLY:O	26:BC:61:THR:HB	2.04	0.57
24:BA:2195:C:C2'	24:BA:2196:C:O4'	2.52	0.57
1:AA:747:C:H2'	1:AA:748:C:O4'	2.04	0.57
24:BA:2246:G:N3	24:BA:2247:A:C8	2.71	0.57
1:AA:1129:C:C5'	1:AA:1130:A:OP1	2.45	0.57
1:AA:1182:G:H4'	1:AA:1183:A:C5'	2.34	0.57
1:AA:1314:C:C5	21:AV:6:LYS:HG3	2.40	0.57
1:AA:1320:C:H2'	1:AA:1320:C:O2	2.04	0.57
1:AA:1321:C:C6	1:AA:1321:C:C3'	2.88	0.57
1:AA:1372:U:C5	1:AA:1373:G:N7	2.72	0.57
1:AA:1389:C:H2'	1:AA:1390:U:C5'	2.35	0.57
1:AA:1430:C:C2	1:AA:1471:G:N2	2.72	0.57
1:AA:1443:G:P	1:AA:1446:A:OP1	2.63	0.57
1:AA:1537:U:H6	1:AA:1537:U:O5'	1.88	0.57
1:AA:1539:C:C2	1:AA:1540:U:C6	2.92	0.57
1:AA:186(D):C:O2'	1:AA:186(E):C:H5'	2.05	0.57
1:AA:781:A:O2'	1:AA:782:A:H5'	2.03	0.57
1:AA:865:A:H5'	1:AA:1078:U:C4	2.39	0.57
1:AA:88:C:O2'	1:AA:89:U:O5'	2.22	0.57
1:AA:983:A:H2	1:AA:984:C:H6	1.51	0.57
3:AD:6:G:O2'	3:AD:7:G:O4'	2.23	0.57
4:AE:121:LEU:O	4:AE:122:PHE:HD1	1.88	0.57
4:AE:178:ARG:HH21	4:AE:196:LEU:CA	2.18	0.57
4:AE:52:GLU:O	4:AE:53:ARG:C	2.41	0.57
5:AF:101:LEU:HD23	5:AF:103:VAL:HG23	1.85	0.57
5:AF:50:ALA:HA	5:AF:72:LYS:CD	2.35	0.57
5:AF:59:ARG:NE	5:AF:64:VAL:CA	2.66	0.57
6:AG:50:ARG:HD3	6:AG:50:ARG:C	2.25	0.57
6:AG:64:LEU:HD11	6:AG:75:PHE:CZ	2.40	0.57
7:AH:72:GLN:HE21	7:AH:144:THR:HG23	1.69	0.57
7:AH:78:HIS:CD2	7:AH:78:HIS:N	2.72	0.57
7:AH:82:VAL:CG1	7:AH:89:ILE:HG22	2.24	0.57
9:AJ:12:LEU:HD11	9:AJ:21:VAL:HB	1.87	0.57
9:AJ:75:VAL:HG21	9:AJ:146:GLU:H	1.68	0.57
1:AA:756:C:O4'	10:AK:1:MET:HE3	2.05	0.57
10:AK:65:TYR:O	10:AK:67:PRO:HD3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:19:LEU:HD22	11:AL:20:ARG:N	2.20	0.57
12:AM:60:ARG:NH1	12:AM:60:ARG:CB	2.67	0.57
12:AM:65:LEU:HD13	16:AQ:36:PHE:HZ	1.68	0.57
13:AN:22:HIS:HB2	13:AN:85:ARG:CB	2.34	0.57
15:AP:13:LYS:HD3	15:AP:17:VAL:HG12	1.87	0.57
15:AP:7:VAL:HG22	30:BG:115:ARG:HH22	1.70	0.57
18:AS:36:ILE:HG22	18:AS:55:ARG:HB3	1.86	0.57
49:B2:10:LYS:HD2	49:B2:31:LEU:HD21	1.86	0.57
50:B3:52:THR:CG2	50:B3:53:GLU:N	2.67	0.57
24:BA:1266:G:P	51:B4:19:ARG:HH11	2.28	0.57
52:B5:19:ARG:O	52:B5:19:ARG:HG2	2.05	0.57
54:B7:53:PRO:C	54:B7:56:GLU:OE2	2.42	0.57
24:BA:1009:A:C2	24:BA:1010:A:C2	2.92	0.57
24:BA:9:U:H2'	24:BA:10:G:O5'	2.05	0.57
24:BA:1210:A:H5''	24:BA:1211:U:O5'	2.04	0.57
24:BA:1300:U:O2'	24:BA:1301:A:P	2.63	0.57
24:BA:1302:A:H3'	24:BA:1303:G:C5'	2.35	0.57
24:BA:1341:U:OP2	24:BA:1397:U:N3	2.34	0.57
24:BA:1341:U:H3	24:BA:1398:C:H5'	1.69	0.57
24:BA:1510:A:C4'	24:BA:1510:A:OP1	2.53	0.57
24:BA:1428:C:N4	24:BA:1569:A:H3'	2.20	0.57
24:BA:1667:G:O5'	35:BN:7:TYR:CE1	2.58	0.57
24:BA:1775:U:H2'	24:BA:1776:G:H8	1.70	0.57
24:BA:2075:U:H2'	24:BA:2077:A:OP2	2.04	0.57
24:BA:215:G:HO2'	24:BA:216:A:P	2.28	0.57
24:BA:2259:G:O4'	24:BA:2427:C:C6	2.57	0.57
24:BA:2356:C:N3	24:BA:2357:U:C5	2.73	0.57
24:BA:2378:A:C2	24:BA:2379:G:H1'	2.34	0.57
24:BA:2447:G:C6	24:BA:2500:U:C2	2.92	0.57
24:BA:2496:C:H2'	24:BA:2496:C:O2	2.03	0.57
24:BA:2503:A:O2'	24:BA:2504:U:OP1	2.22	0.57
24:BA:251:A:H3'	24:BA:251:A:P	2.45	0.57
24:BA:2532:G:H8	24:BA:2532:G:O5'	1.86	0.57
24:BA:2583:G:C4	24:BA:2584:U:O2	2.57	0.57
24:BA:2589:A:C2	24:BA:2590:A:C8	2.93	0.57
24:BA:2014:A:C2	24:BA:2613:U:C4	2.93	0.57
24:BA:2776:A:C1'	24:BA:2778:A:C8	2.88	0.57
24:BA:295:G:H2'	24:BA:296:C:C5'	2.33	0.57
24:BA:551:G:O4'	24:BA:1220:A:N1	2.38	0.57
24:BA:665:C:O2	24:BA:666:G:C8	2.58	0.57
25:BB:12:C:H5''	47:BZ:74:ARG:HG3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:46:A:O2'	25:BB:47:C:O4'	2.19	0.57
25:BB:63:G:H2'	25:BB:64:C:C6	2.39	0.57
25:BB:99:A:C2	25:BB:100:G:N9	2.73	0.57
24:BA:1813:G:C2'	27:BD:46:GLN:HG2	2.34	0.57
28:BE:116:VAL:O	28:BE:117:MET:O	2.22	0.57
28:BE:119:ARG:HG3	28:BE:156:MET:O	2.04	0.57
29:BF:20:LEU:H	29:BF:20:LEU:HD23	1.69	0.57
30:BG:141:PHE:C	30:BG:143:GLU:N	2.56	0.57
30:BG:1:MET:C	30:BG:3:LEU:H	2.08	0.57
30:BG:78:SER:CB	30:BG:83:ARG:HD2	2.30	0.57
31:BH:132:ARG:CD	31:BH:132:ARG:N	2.66	0.57
31:BH:26:VAL:HG11	31:BH:76:VAL:CA	2.35	0.57
31:BH:90:LYS:HD2	31:BH:90:LYS:O	2.05	0.57
33:BL:112:MET:HE1	33:BL:118:THR:CA	2.34	0.57
24:BA:1076:C:O4'	33:BL:90:LYS:HE2	2.05	0.57
34:BM:62:VAL:O	34:BM:63:THR:HG23	2.03	0.57
36:BO:130:PHE:CB	36:BO:135:LEU:HD12	2.35	0.57
36:BO:46:LYS:CB	36:BO:49:ARG:CB	2.83	0.57
36:BO:69:GLY:O	36:BO:70:GLN:HB3	2.03	0.57
37:BP:35:VAL:HG12	37:BP:131:ILE:HA	1.86	0.57
37:BP:34:LEU:HG	37:BP:67:ARG:NH2	2.19	0.57
37:BP:22:LYS:HA	37:BP:99:PRO:CG	2.34	0.57
24:BA:1649:G:C2	38:BQ:107:ASP:HB2	2.40	0.57
38:BQ:26:LYS:CE	38:BQ:70:LEU:HA	2.35	0.57
38:BQ:74:LYS:NZ	38:BQ:74:LYS:HB2	2.19	0.57
38:BQ:86:ARG:CZ	38:BQ:86:ARG:HB2	2.34	0.57
38:BQ:96:ARG:C	38:BQ:114:VAL:HG13	2.24	0.57
40:BS:54:ARG:C	40:BS:55:ASN:OD1	2.42	0.57
44:BW:89:ILE:HA	44:BW:92:LEU:HD22	1.87	0.57
45:BX:46:LYS:HB2	45:BX:58:GLY:N	2.20	0.57
45:BX:88:LYS:HE3	45:BX:89:PHE:O	2.04	0.57
45:BX:9:LYS:HB2	45:BX:9:LYS:HZ2	1.65	0.57
46:BY:111:VAL:N	46:BY:116:VAL:O	2.38	0.57
47:BZ:50:ASN:HB2	47:BZ:81:VAL:HB	1.86	0.57
24:BA:2113:U:H5	24:BA:2114:A:H62	1.51	0.57
24:BA:2137:C:H2'	24:BA:2138:C:H6	1.69	0.57
24:BA:2168:G:H2'	24:BA:2170:A:OP2	2.05	0.57
26:BC:59:ARG:NH1	26:BC:59:ARG:HB3	2.20	0.57
1:AA:1005:A:H5"	1:AA:1006:C:C6	2.38	0.57
24:BA:2094:G:C2	24:BA:2196:C:C2	2.93	0.57
1:AA:1066:C:C5	1:AA:1067:A:N6	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:136:C:H1'	18:AS:1:MET:HE1	1.86	0.57
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.40	0.57
1:AA:1394:A:O2'	1:AA:1395:C:OP1	2.20	0.57
1:AA:1419:G:C2'	1:AA:1420:C:H6	2.18	0.57
1:AA:319:G:H4'	1:AA:1468:A:C4'	2.35	0.57
1:AA:900:A:N7	1:AA:901:A:N6	2.41	0.57
1:AA:901:A:N3	1:AA:902:G:H1'	2.18	0.57
1:AA:915:A:O5'	1:AA:915:A:H8	1.88	0.57
2:AC:18:G:C4	2:AC:58:A:C2	2.92	0.57
2:AC:5:G:H2'	2:AC:6:G:O5'	2.04	0.57
2:AC:74:C:H5''	24:BA:2602:A:C2'	2.21	0.57
3:AD:34:G:N3	3:AD:34:G:C2'	2.67	0.57
4:AE:141:GLU:OE1	4:AE:142:LEU:N	2.36	0.57
4:AE:163:PHE:CB	4:AE:185:ILE:HG13	2.34	0.57
4:AE:57:PHE:HD1	4:AE:199:TYR:HE1	1.53	0.57
5:AF:25:GLY:C	5:AF:28:GLN:NE2	2.58	0.57
7:AH:109:ILE:CG2	7:AH:110:LEU:N	2.68	0.57
7:AH:18:ARG:NH2	7:AH:25:ARG:HG3	2.15	0.57
7:AH:28:PHE:CZ	7:AH:49:PRO:O	2.58	0.57
8:AI:50:TYR:O	8:AI:52:ILE:N	2.38	0.57
8:AI:75:LEU:CD2	8:AI:79:LEU:HD23	2.34	0.57
9:AJ:88:PRO:HG2	9:AJ:152:ALA:CB	2.35	0.57
9:AJ:14:PRO:HG3	9:AJ:21:VAL:HG13	1.85	0.57
10:AK:14:ARG:NH1	10:AK:83:ILE:HG21	2.20	0.57
14:AO:113:ARG:O	14:AO:114:LYS:HG3	2.04	0.57
15:AP:59:TYR:CG	15:AP:60:VAL:N	2.72	0.57
15:AP:80:ARG:NH1	15:AP:81:LEU:HB3	2.09	0.57
15:AP:8:GLU:HG3	15:AP:22:ILE:HD11	1.87	0.57
16:AQ:27:CYS:N	16:AQ:43:CYS:HB3	2.12	0.57
23:AX:4:GLY:O	23:AX:6:ARG:HG2	2.04	0.57
48:B1:27:LEU:C	48:B1:30:LEU:HG	2.24	0.57
48:B1:41:GLN:O	48:B1:42:ASN:C	2.41	0.57
24:BA:2528:U:OP1	55:B8:30:PRO:CG	2.53	0.57
24:BA:1029:A:H2'	24:BA:1030:G:C4'	2.35	0.57
24:BA:1061:U:OP1	24:BA:1062:G:H8	1.88	0.57
24:BA:1135:C:H1'	24:BA:2038:G:H4'	1.85	0.57
24:BA:1197:G:H2'	24:BA:1197:G:N3	2.20	0.57
24:BA:1296:G:C2'	24:BA:1297:C:O5'	2.53	0.57
24:BA:1274:A:H2	24:BA:1297:C:O2	1.88	0.57
24:BA:1451:C:H5''	24:BA:1453:A:O2'	2.04	0.57
24:BA:1475:G:N7	24:BA:1517:G:C2	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1447:G:O4'	24:BA:1545(A):A:H5'	2.04	0.57
24:BA:1324:G:O2'	24:BA:1616:A:C5	2.53	0.57
24:BA:1647:G:P	24:BA:1647:G:H3'	2.45	0.57
24:BA:1655:A:C2'	24:BA:1656:C:C6	2.87	0.57
24:BA:1832:C:C2'	24:BA:1833:U:H5'	2.35	0.57
24:BA:1843:C:C5'	27:BD:255:LYS:HE3	2.34	0.57
24:BA:1930:G:O2'	24:BA:1931:U:P	2.62	0.57
24:BA:1952:A:C5	24:BA:1953:A:N1	2.72	0.57
24:BA:981:A:N3	24:BA:2037:G:H1'	2.19	0.57
24:BA:2355:C:C5	24:BA:2356:C:C5	2.93	0.57
24:BA:2408:U:C3'	24:BA:2408:U:C6	2.88	0.57
24:BA:2493:U:H3'	24:BA:2493:U:C6	2.40	0.57
24:BA:259:G:HO2'	24:BA:621:A:H1'	1.69	0.57
24:BA:270(G):C:H2'	24:BA:270(H):C:H6	1.65	0.57
24:BA:289:A:C8	24:BA:290:G:O6	2.57	0.57
24:BA:389:G:C8	24:BA:389:G:OP1	2.58	0.57
24:BA:449:A:H2'	24:BA:450:G:C5'	2.35	0.57
24:BA:534:U:HO2'	41:BT:49:HIS:CD2	2.22	0.57
24:BA:804:A:H62	36:BO:39:LYS:HZ2	1.51	0.57
24:BA:846:C:H1'	24:BA:847:U:C5	2.40	0.57
24:BA:871:U:H2'	24:BA:872:A:H8	1.69	0.57
24:BA:964:C:O2'	24:BA:965:C:O5'	2.23	0.57
24:BA:974(A):C:C5'	24:BA:975:G:OP1	2.50	0.57
25:BB:23:G:H2'	25:BB:24:G:C8	2.40	0.57
27:BD:134:ARG:HA	27:BD:168:ARG:HH12	1.70	0.57
27:BD:134:ARG:O	27:BD:168:ARG:NH1	2.37	0.57
27:BD:14:ARG:HD3	27:BD:15:PHE:H	1.70	0.57
27:BD:183:ARG:CG	27:BD:184:LYS:H	2.18	0.57
27:BD:220:HIS:O	27:BD:221:VAL:HB	2.04	0.57
24:BA:1565:C:OP1	27:BD:24:ILE:HG23	2.05	0.57
27:BD:68:LYS:HB3	27:BD:70:TRP:HE1	1.70	0.57
28:BE:167:VAL:HG11	28:BE:170:LEU:CD1	2.19	0.57
29:BF:158:THR:CG2	29:BF:159:GLY:N	2.67	0.57
29:BF:114:VAL:N	29:BF:186:ILE:HD13	2.20	0.57
30:BG:18:GLU:C	30:BG:18:GLU:OE2	2.43	0.57
30:BG:26:GLN:CD	30:BG:31:VAL:HG22	2.25	0.57
31:BH:104:GLU:CB	31:BH:105:LEU:HD12	2.34	0.57
31:BH:127:GLU:HG3	31:BH:130:ARG:HG3	1.86	0.57
31:BH:157:TYR:HB3	31:BH:172:LYS:CG	2.35	0.57
31:BH:149:ARG:NH2	31:BH:164:TYR:CD1	2.67	0.57
31:BH:98:LEU:O	31:BH:98:LEU:HD23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:39:ALA:HA	32:BK:44:LEU:HD21	1.87	0.57
33:BL:18:THR:N	33:BL:38:VAL:CG2	2.67	0.57
34:BM:96:GLU:N	34:BM:96:GLU:OE2	2.38	0.57
36:BO:10:PRO:O	36:BO:11:GLY:O	2.22	0.57
36:BO:15:ARG:O	36:BO:16:ARG:C	2.42	0.57
37:BP:121:ALA:O	37:BP:124:LYS:CE	2.52	0.57
37:BP:16:ARG:O	37:BP:17:LEU:HG	2.05	0.57
38:BQ:113:LEU:CD1	38:BQ:113:LEU:C	2.71	0.57
39:BR:26:LEU:CD1	39:BR:28:VAL:HB	2.34	0.57
39:BR:49:VAL:CG2	39:BR:50:SER:N	2.68	0.57
40:BS:19:LEU:HD12	40:BS:85:LYS:NZ	2.20	0.57
40:BS:31:SER:C	40:BS:32:TYR:CG	2.75	0.57
41:BT:113:ALA:HA	41:BT:116:ALA:HB2	1.87	0.57
41:BT:52:ARG:HB2	41:BT:55:ARG:HD3	1.86	0.57
41:BT:52:ARG:O	41:BT:55:ARG:N	2.38	0.57
42:BU:5:VAL:H	42:BU:12:TYR:HD2	1.52	0.57
42:BU:16:PRO:HD3	42:BU:100:ARG:HH12	1.69	0.57
42:BU:62:LEU:O	42:BU:64:HIS:CE1	2.57	0.57
44:BW:49:VAL:CA	44:BW:88:LYS:HG3	2.35	0.57
45:BX:99:CYS:SG	45:BX:100:ALA:N	2.78	0.57
46:BY:23:LYS:HE3	46:BY:38:TYR:CB	2.32	0.57
46:BY:67:LEU:HB3	46:BY:90:VAL:HG11	1.86	0.57
24:BA:2135:A:C5'	24:BA:2136:C:H5	2.17	0.57
26:BC:102:LYS:O	26:BC:105:ASP:HB2	2.05	0.57
26:BC:74:VAL:HG21	26:BC:156:ILE:CD1	2.34	0.57
26:BC:160:ARG:HG2	26:BC:160:ARG:NH1	2.20	0.57
26:BC:161:ILE:HG23	26:BC:174:PRO:HG2	1.86	0.57
4:AE:126:GLU:HA	4:AE:129:GLU:OE1	2.05	0.57
1:AA:1188:A:H3'	1:AA:1189:C:H5	1.70	0.57
1:AA:1189:C:C6	1:AA:1189:C:OP2	2.58	0.57
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.05	0.57
1:AA:186(E):C:O2'	1:AA:186(F):C:H5'	2.04	0.57
1:AA:307:C:N4	1:AA:308:C:N4	2.45	0.57
1:AA:355:C:N3	1:AA:356:A:N7	2.53	0.57
1:AA:511:C:HO2'	1:AA:512:U:H6	1.53	0.57
1:AA:518:C:HO2'	1:AA:519:C:P	2.26	0.57
1:AA:644:G:C2'	1:AA:645:C:H5'	2.35	0.57
1:AA:579:G:N1	1:AA:763:G:C6	2.73	0.57
1:AA:796:C:C2	1:AA:797:C:C5	2.93	0.57
1:AA:900:A:C8	1:AA:901:A:N7	2.73	0.57
1:AA:939:G:OP1	9:AJ:99:LEU:HD11	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:990:C:H2'	1:AA:991:U:C1'	2.35	0.57
1:AA:1230:C:H4'	2:AC:31:G:OP1	2.04	0.57
3:AD:66:C:C2	3:AD:67:C:C5	2.93	0.57
4:AE:178:ARG:HH21	4:AE:196:LEU:HA	1.68	0.57
4:AE:234:PRO:C	4:AE:238:LEU:HD22	2.25	0.57
6:AG:192:GLU:OE1	6:AG:192:GLU:N	2.34	0.57
6:AG:61:LYS:HA	6:AG:203:VAL:HG13	1.87	0.57
7:AH:19:MET:CE	7:AH:20:GLN:N	2.67	0.57
9:AJ:27:ILE:HG12	9:AJ:43:PHE:CG	2.39	0.57
9:AJ:76:ARG:CD	9:AJ:89:MET:HE2	2.34	0.57
10:AK:23:SER:O	10:AK:61:VAL:O	2.22	0.57
10:AK:32:LYS:O	10:AK:33:GLU:C	2.43	0.57
11:AL:28:VAL:O	11:AL:30:GLY:N	2.38	0.57
11:AL:55:ALA:CB	11:AL:58:HIS:HD2	2.18	0.57
13:AN:27:ASN:OD1	13:AN:45:GLY:N	2.37	0.57
13:AN:63:LEU:C	13:AN:63:LEU:CD2	2.73	0.57
14:AO:48:PRO:HG2	14:AO:49:ASN:N	2.20	0.57
15:AP:4:ILE:O	15:AP:5:ALA:HB3	2.05	0.57
15:AP:24:GLY:O	15:AP:66:LEU:HD13	2.05	0.57
16:AQ:23:ARG:HA	16:AQ:33:VAL:HG11	1.86	0.57
17:AR:71:GLN:HA	17:AR:75:PRO:HA	1.87	0.57
18:AS:67:THR:HB	18:AS:70:ALA:CB	2.32	0.57
19:AT:86:GLU:O	19:AT:89:LEU:HB2	2.05	0.57
48:B1:63:ARG:HH21	48:B1:63:ARG:HB3	1.70	0.57
50:B3:43:TYR:HA	50:B3:61:ARG:CZ	2.34	0.57
52:B5:25:LYS:C	52:B5:26:ASN:ND2	2.59	0.57
52:B5:46:HIS:O	52:B5:47:THR:O	2.22	0.57
24:BA:1056:G:N2	24:BA:1102:C:OP2	2.34	0.57
24:BA:1089:G:O2'	24:BA:1103:A:C2	2.57	0.57
24:BA:1225:C:OP1	42:BU:88:ARG:HB2	2.04	0.57
24:BA:1430:C:C2'	24:BA:1431:U:H5'	2.35	0.57
24:BA:1604:C:C2'	24:BA:1604:C:O2	2.52	0.57
24:BA:1614:A:H5''	24:BA:1617:C:H41	1.70	0.57
24:BA:1717:G:N1	24:BA:1718:G:N3	2.53	0.57
24:BA:1778:U:C3'	24:BA:1779:U:C5	2.88	0.57
24:BA:1784:A:O2'	24:BA:1785:A:P	2.63	0.57
24:BA:1783:A:C5'	24:BA:1784:A:OP1	2.53	0.57
24:BA:1789:A:N3	27:BD:213:ARG:NH2	2.52	0.57
24:BA:1869:G:N3	24:BA:1878:G:C6	2.73	0.57
24:BA:1925:C:C2	24:BA:1929:G:O6	2.58	0.57
24:BA:1940:U:H4'	24:BA:1941:C:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1969:A:H4'	24:BA:1970:A:C5'	2.27	0.57
24:BA:2031:A:C5'	24:BA:2031:A:H8	2.18	0.57
24:BA:2053:G:H5''	28:BE:144:ARG:HA	1.87	0.57
24:BA:2348:U:O2'	24:BA:2349:G:H5'	2.05	0.57
24:BA:2431:U:O2'	24:BA:2432:A:C8	2.58	0.57
24:BA:2448:A:OP1	24:BA:2498:C:H5''	2.05	0.57
24:BA:2507:C:C2	24:BA:2583:G:C2	2.93	0.57
24:BA:2519:U:C6	24:BA:2542:A:N6	2.73	0.57
24:BA:2523:G:H2'	24:BA:2524:G:C5'	2.33	0.57
24:BA:2667:C:C5	24:BA:2668:G:C8	2.92	0.57
24:BA:2740:A:C6	24:BA:2764:A:C4	2.92	0.57
24:BA:2523:G:H1'	24:BA:2765:A:N6	2.19	0.57
24:BA:2815:C:O2	24:BA:2816:C:C6	2.58	0.57
24:BA:2858:C:H3'	24:BA:2859:G:H8	1.70	0.57
24:BA:2881:C:H2'	24:BA:2882:A:H8	1.70	0.57
24:BA:289:A:C2	24:BA:351:G:O6	2.57	0.57
24:BA:419:C:N4	24:BA:420:C:N4	2.53	0.57
24:BA:456:C:N4	44:BW:68:ARG:HB3	2.19	0.57
24:BA:527:C:C5	34:BM:114:ARG:HD2	2.38	0.57
24:BA:621:A:H62	24:BA:622:G:C1'	2.18	0.57
24:BA:648:G:C4	24:BA:649:G:N7	2.73	0.57
24:BA:669:G:N3	24:BA:669:G:H2'	2.20	0.57
24:BA:775:G:C2	24:BA:787:U:H2'	2.36	0.57
24:BA:820:A:H2'	24:BA:821:A:C5'	2.31	0.57
24:BA:963:U:H2'	24:BA:964:C:O5'	2.05	0.57
24:BA:975:G:N2	24:BA:976:C:O4'	2.38	0.57
27:BD:117:VAL:HG13	27:BD:129:ASN:N	2.20	0.57
27:BD:131:LEU:HG	27:BD:132:PRO:CD	2.20	0.57
27:BD:256:GLY:O	27:BD:257:LEU:CG	2.49	0.57
27:BD:9:TYR:CD2	27:BD:25:THR:HG22	2.40	0.57
24:BA:773:U:H5'	27:BD:48:ARG:HG2	1.85	0.57
28:BE:185:LYS:O	28:BE:185:LYS:HG2	2.04	0.57
24:BA:2784:C:H4'	28:BE:40:GLU:OE2	2.05	0.57
29:BF:123:LEU:CG	29:BF:191:ARG:HD3	2.34	0.57
30:BG:17:PRO:O	30:BG:20:ILE:HB	2.05	0.57
31:BH:71:LEU:CD2	31:BH:72:ILE:HD13	2.35	0.57
32:BK:27:ARG:O	32:BK:32:PRO:CD	2.49	0.57
32:BK:9:LEU:CB	32:BK:13:GLY:HA3	2.34	0.57
35:BN:113:LYS:NZ	35:BN:116:SER:HB3	2.20	0.57
36:BO:100:LEU:H	36:BO:100:LEU:HD23	1.69	0.57
36:BO:121:LYS:CB	36:BO:137:LYS:HB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:20:LEU:O	38:BQ:21:TYR:C	2.42	0.57
38:BQ:40:LYS:O	38:BQ:44:LEU:HB2	2.05	0.57
38:BQ:5:LYS:HZ1	38:BQ:6:SER:CA	2.18	0.57
38:BQ:85:PRO:O	38:BQ:86:ARG:C	2.41	0.57
25:BB:114:G:O4'	39:BR:47:THR:CG2	2.52	0.57
39:BR:96:GLY:O	39:BR:98:VAL:N	2.37	0.57
40:BS:21:GLU:OE1	40:BS:23:ARG:HD3	2.05	0.57
35:BN:99:PHE:CD1	40:BS:74:ARG:CZ	2.87	0.57
42:BU:25:LEU:HG	42:BU:28:GLU:OE1	2.04	0.57
42:BU:80:GLN:HE21	42:BU:81:TYR:HE1	1.51	0.57
42:BU:80:GLN:O	42:BU:82:ARG:N	2.38	0.57
45:BX:71:LYS:O	45:BX:72:VAL:O	2.22	0.57
45:BX:88:LYS:HD3	45:BX:91:GLU:OE1	2.05	0.57
46:BY:120:ILE:HA	46:BY:172:ALA:CB	2.34	0.57
46:BY:4:ARG:HD3	46:BY:38:TYR:N	2.20	0.57
47:BZ:48:GLY:HA3	47:BZ:80:HIS:CD2	2.40	0.57
32:BK:77:LEU:HB2	32:BK:142:VAL:HG13	1.85	0.57
24:BA:2177:C:C4	24:BA:2178:C:C5	2.93	0.57
26:BC:103:ILE:CG2	26:BC:130:ILE:HG21	2.34	0.57
26:BC:129:ARG:HG2	26:BC:130:ILE:HD12	1.86	0.57
26:BC:166:ASP:OD2	26:BC:167:LYS:HG2	2.05	0.57
24:BA:1417:C:H42	24:BA:1581:G:H1	0.64	0.57
24:BA:274:G:C2'	24:BA:275:G:H5'	2.35	0.57
1:AA:1053:G:H4'	1:AA:1054:C:O3'	2.05	0.57
1:AA:1184:G:C2	1:AA:1185:G:C5	2.93	0.57
1:AA:1185:G:O2'	1:AA:1186:G:H5'	2.05	0.57
1:AA:1206:G:C4	1:AA:1207:G:C8	2.93	0.57
1:AA:122:G:H2'	1:AA:123:C:O4'	2.05	0.57
1:AA:1239:A:N6	1:AA:1299:A:H61	2.01	0.57
1:AA:1299:A:N7	1:AA:1301:U:N1	2.52	0.57
1:AA:1428:A:H2'	1:AA:1429:C:H6	1.59	0.57
1:AA:270:A:H2'	1:AA:271:C:H6	1.70	0.57
1:AA:274:A:H5'	1:AA:275:G:OP1	2.05	0.57
1:AA:30:U:O2'	1:AA:31:G:P	2.63	0.57
1:AA:363:A:N1	1:AA:364:A:N3	2.53	0.57
1:AA:37:U:P	14:AO:123:LYS:HD2	2.44	0.57
1:AA:647:C:N3	1:AA:648:A:N7	2.52	0.57
1:AA:64:G:N2	1:AA:67:C:N4	2.53	0.57
1:AA:657:G:O2'	1:AA:658:G:H5'	2.05	0.57
1:AA:665:A:N7	1:AA:733:A:C2	2.72	0.57
1:AA:835:U:OP1	20:AU:64:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:964:A:C5'	1:AA:1199:U:OP1	2.52	0.57
1:AA:967:C:H2'	1:AA:968:A:N7	2.20	0.57
3:AD:39:U:H2'	3:AD:40:C:C6	2.40	0.57
4:AE:25:ASN:HD22	4:AE:26:PRO:N	2.02	0.57
4:AE:85:ALA:HB3	4:AE:92:TYR:CD1	2.40	0.57
5:AF:172:ARG:HH12	5:AF:174:PRO:HD3	1.69	0.57
5:AF:42:LEU:HD12	5:AF:94:LEU:CD1	2.34	0.57
6:AG:148:VAL:HG21	6:AG:162:LEU:HD21	1.87	0.57
6:AG:78:LEU:HD21	6:AG:96:LEU:HB2	1.85	0.57
9:AJ:138:LYS:CE	9:AJ:142:GLU:OE1	2.47	0.57
10:AK:101:PRO:HG2	10:AK:102:ARG:H	1.70	0.57
10:AK:87:SER:HB2	10:AK:93:VAL:H	1.70	0.57
11:AL:79:LEU:HD13	11:AL:101:PHE:HD2	1.70	0.57
15:AP:13:LYS:HA	15:AP:44:ARG:NH2	2.20	0.57
17:AR:36:ILE:CG1	17:AR:59:MET:SD	2.92	0.57
1:AA:668:G:O2'	17:AR:46:HIS:CE1	2.58	0.57
22:AW:100:ILE:O	22:AW:102:GLY:N	2.38	0.57
48:B1:29:GLU:O	48:B1:30:LEU:C	2.44	0.57
48:B1:2:ARG:O	48:B1:5:LEU:CB	2.52	0.57
50:B3:21:VAL:HG12	50:B3:22:ILE:H	1.69	0.57
50:B3:29:PRO:O	50:B3:30:GLU:HB2	2.05	0.57
50:B3:33:VAL:HG12	50:B3:35:VAL:CG2	2.35	0.57
52:B5:17:LYS:HE2	52:B5:48:VAL:HG13	1.86	0.57
55:B8:30:PRO:HA	55:B8:33:LYS:HE2	1.86	0.57
24:BA:1021:A:C2'	24:BA:1022:G:OP1	2.52	0.57
24:BA:1155:A:O2'	24:BA:1156:A:H5''	2.04	0.57
24:BA:814:C:C4'	24:BA:1224:G:N2	2.65	0.57
24:BA:1345:C:H4'	24:BA:1396:U:O4	2.05	0.57
24:BA:1455:G:C2'	24:BA:1456:G:H5'	2.35	0.57
24:BA:1511:A:H2'	24:BA:1512:G:O5'	2.05	0.57
24:BA:1515:C:C2'	24:BA:1516:U:OP1	2.52	0.57
24:BA:1619:G:N2	24:BA:1620:G:N3	2.52	0.57
24:BA:1710:C:O2'	24:BA:1711:C:H5'	2.05	0.57
24:BA:1907:G:C5	24:BA:1908:C:C5	2.92	0.57
24:BA:219:G:H2'	24:BA:220:G:H5'	1.87	0.57
24:BA:2265:U:N3	24:BA:2266:A:N7	2.52	0.57
24:BA:2352:A:O2'	24:BA:2353:G:H5'	2.05	0.57
24:BA:2376:A:N6	39:BR:94:TYR:CG	2.73	0.57
24:BA:2466:C:N3	24:BA:2467:C:C5	2.73	0.57
24:BA:2060:A:C8	24:BA:2502:G:N3	2.73	0.57
2:AC:76:A:N1	24:BA:2506:U:O4	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2528:U:H2'	24:BA:2530:A:O5'	2.05	0.57
24:BA:2562:U:H2'	24:BA:2562:U:O2	2.05	0.57
24:BA:2584:U:H3'	24:BA:2584:U:C6	2.40	0.57
24:BA:273:G:H2'	24:BA:273(A):G:C8	2.31	0.57
24:BA:2785:C:C2	24:BA:2786:U:C5	2.92	0.57
24:BA:2811:G:N2	24:BA:2891:G:H1'	2.20	0.57
24:BA:227:A:N6	24:BA:410:G:H1'	2.20	0.57
24:BA:52:A:H2'	24:BA:53:A:C8	2.39	0.57
24:BA:687:C:H5''	53:B6:4:THR:HB	1.85	0.57
24:BA:987:G:C6	24:BA:988:A:C5	2.93	0.57
25:BB:14:U:H1'	25:BB:107:U:C1'	2.34	0.57
25:BB:83:G:O2'	25:BB:84:C:C5'	2.51	0.57
27:BD:64:ILE:HD12	27:BD:104:TYR:CD2	2.40	0.57
24:BA:2596:U:C3'	27:BD:242:ARG:NE	2.68	0.57
27:BD:257:LEU:O	27:BD:261:LYS:NZ	2.38	0.57
27:BD:33:LEU:CD1	27:BD:63:ARG:NH2	2.67	0.57
28:BE:128:SER:OG	28:BE:129:HIS:CD2	2.58	0.57
28:BE:100:GLU:CB	28:BE:172:VAL:HG11	2.33	0.57
28:BE:58:ARG:HG2	28:BE:63:LEU:CD2	2.35	0.57
29:BF:4:VAL:C	29:BF:6:VAL:H	2.09	0.57
29:BF:74:ARG:O	29:BF:75:HIS:HB2	2.05	0.57
30:BG:19:LEU:CB	30:BG:22:ARG:HH12	2.18	0.57
30:BG:51:ARG:CA	30:BG:51:ARG:HH21	2.17	0.57
31:BH:74:ASN:O	31:BH:75:ALA:C	2.43	0.57
31:BH:83:TYR:CE1	31:BH:138:LYS:HD3	2.39	0.57
35:BN:108:GLU:O	35:BN:109:LYS:CB	2.53	0.57
35:BN:121:VAL:O	40:BS:70:VAL:O	2.23	0.57
35:BN:68:GLU:CG	35:BN:76:ALA:N	2.68	0.57
36:BO:72:PRO:HB3	36:BO:111:ARG:N	2.20	0.57
36:BO:122:PRO:O	36:BO:138:LEU:N	2.38	0.57
36:BO:72:PRO:HB3	36:BO:110:TYR:O	2.04	0.57
37:BP:106:VAL:O	37:BP:107:ALA:CB	2.52	0.57
37:BP:118:LEU:O	37:BP:121:ALA:N	2.38	0.57
39:BR:39:ILE:HG13	39:BR:49:VAL:H	1.69	0.57
41:BT:17:ILE:C	41:BT:20:LEU:HG	2.25	0.57
41:BT:31:SER:HB2	41:BT:35:ALA:N	2.20	0.57
46:BY:133:ILE:O	46:BY:133:ILE:HD12	2.05	0.57
46:BY:1:MET:HE2	46:BY:59:LEU:HD22	1.86	0.57
46:BY:29:TYR:CD1	46:BY:72:ARG:NH2	2.73	0.57
47:BZ:50:ASN:HB3	47:BZ:63:VAL:CG2	2.34	0.57
47:BZ:37:LEU:HD11	47:BZ:60:PHE:C	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:81:VAL:HG12	32:BK:88:ILE:CG1	2.25	0.57
24:BA:2175:C:H1'	26:BC:218:MET:HA	1.86	0.57
24:BA:2103:C:H2'	24:BA:2104:G:C8	2.36	0.57
24:BA:2294:C:O2'	24:BA:2295:C:H5'	2.05	0.57
1:AA:101:A:C4	1:AA:102:G:C8	2.93	0.56
1:AA:1057:G:C5	1:AA:1204:A:C2	2.92	0.56
1:AA:1223:C:O5'	1:AA:1224:G:H5''	2.05	0.56
1:AA:1351:U:H2'	1:AA:1352:C:C6	2.40	0.56
1:AA:1442:G:C6	1:AA:1446:A:C6	2.93	0.56
1:AA:1526:G:H2'	1:AA:1527:C:C6	2.40	0.56
1:AA:176:C:O2'	1:AA:177:C:H5'	2.05	0.56
1:AA:173:U:H5''	1:AA:197:A:H1'	1.79	0.56
1:AA:440:A:H61	1:AA:494:U:H5	1.52	0.56
1:AA:744:C:H2'	1:AA:745:C:H6	1.70	0.56
1:AA:769:G:N3	1:AA:770:C:C6	2.73	0.56
2:AC:10:G:N2	2:AC:11:A:C4	2.72	0.56
2:AC:17:C:N4	2:AC:19:G:C8	2.73	0.56
4:AE:132:LYS:HA	4:AE:135:GLN:OE1	2.04	0.56
4:AE:91:PRO:N	4:AE:154:LEU:HD13	2.20	0.56
4:AE:175:ARG:HG3	4:AE:179:LYS:HE3	1.87	0.56
4:AE:193:ASP:OD2	4:AE:196:LEU:HD11	2.05	0.56
4:AE:18:GLY:HA2	4:AE:41:ILE:HA	1.86	0.56
5:AF:111:LEU:CD1	5:AF:111:LEU:N	2.68	0.56
5:AF:18:TRP:CZ2	16:AQ:55:GLY:O	2.57	0.56
5:AF:22:TRP:CZ2	16:AQ:54:PRO:HG3	2.40	0.56
5:AF:29:TYR:HE2	16:AQ:54:PRO:HG2	1.70	0.56
1:AA:1191:A:P	5:AF:4:LYS:HZ2	2.27	0.56
5:AF:89:GLU:O	5:AF:90:GLU:C	2.43	0.56
6:AG:30:LYS:CE	6:AG:35:ARG:HH11	2.07	0.56
8:AI:68:PRO:O	8:AI:71:ARG:HG2	2.04	0.56
8:AI:76:ALA:HB3	8:AI:80:ARG:HH21	1.70	0.56
8:AI:80:ARG:HG2	8:AI:80:ARG:NH1	2.18	0.56
8:AI:98:LEU:HD21	20:AU:28:GLU:CA	2.29	0.56
10:AK:14:ARG:CD	10:AK:15:ASN:ND2	2.68	0.56
12:AM:9:ARG:NH1	12:AM:9:ARG:CB	2.68	0.56
14:AO:121:GLY:O	14:AO:122:THR:OG1	2.22	0.56
15:AP:97:PRO:CB	15:AP:101:GLN:HB2	2.28	0.56
17:AR:18:PHE:CD1	17:AR:18:PHE:O	2.58	0.56
18:AS:39:TYR:HB2	18:AS:49:LEU:CD1	2.33	0.56
19:AT:4:LYS:CD	19:AT:5:VAL:H	2.02	0.56
20:AU:43:PHE:O	20:AU:51:LEU:HD13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:58:LEU:HD22	20:AU:62:GLU:HG2	1.87	0.56
20:AU:76:LEU:N	20:AU:76:LEU:HD22	2.20	0.56
21:AV:12:ASP:O	21:AV:15:LEU:HG	2.05	0.56
21:AV:17:GLU:OE1	21:AV:18:LYS:N	2.36	0.56
21:AV:63:THR:HB	21:AV:66:MET:SD	2.45	0.56
50:B3:43:TYR:HE2	50:B3:55:ARG:HG2	1.69	0.56
24:BA:1140:C:H4'	24:BA:1142(A):A:H2	1.68	0.56
24:BA:149:A:C6	24:BA:150:C:C4	2.93	0.56
24:BA:1542:G:C8	24:BA:1543:A:N6	2.73	0.56
24:BA:1545(A):A:H3'	24:BA:1545(A):A:C8	2.40	0.56
24:BA:1921:G:O2'	24:BA:1922:G:H5'	2.03	0.56
2:AC:12:G:H1'	24:BA:1923:U:O2'	2.04	0.56
24:BA:1940:U:C4'	24:BA:1941:C:H5'	2.35	0.56
24:BA:1954:G:H3'	24:BA:1954:G:P	2.45	0.56
24:BA:1999:C:N3	24:BA:2000:G:C8	2.73	0.56
24:BA:2024:G:C5	24:BA:2025:C:C5	2.93	0.56
24:BA:2508:G:H2'	24:BA:2509:G:H5'	1.85	0.56
24:BA:2526:G:H2'	24:BA:2527:C:C5'	2.35	0.56
24:BA:2650:U:H2'	24:BA:2651:C:C6	2.40	0.56
24:BA:2786:U:H2'	24:BA:2787:C:H6	1.70	0.56
24:BA:2814:C:H2'	24:BA:2815:C:C6	2.39	0.56
24:BA:29:U:C2	24:BA:30:G:N7	2.73	0.56
24:BA:355:G:C2'	24:BA:356:G:C8	2.80	0.56
24:BA:451:C:C5	24:BA:453:C:H5'	2.39	0.56
24:BA:588:U:O2'	24:BA:589:C:H5'	2.04	0.56
24:BA:603:A:N6	24:BA:625:G:N7	2.54	0.56
24:BA:945:A:H3'	24:BA:946:G:H5''	1.87	0.56
25:BB:81:G:O6	25:BB:96:G:C6	2.58	0.56
27:BD:13:ARG:O	27:BD:14:ARG:NH2	2.38	0.56
27:BD:145:VAL:O	27:BD:154:LYS:O	2.23	0.56
27:BD:205:VAL:HG13	27:BD:205:VAL:O	2.03	0.56
24:BA:1798:U:H5'	27:BD:257:LEU:HB2	1.87	0.56
28:BE:4:ILE:HD11	28:BE:76:ARG:HH11	1.70	0.56
29:BF:154:VAL:C	29:BF:174:VAL:HG13	2.24	0.56
29:BF:194:MET:HE1	29:BF:200:GLU:HB3	1.85	0.56
29:BF:35:GLU:O	29:BF:36:VAL:C	2.43	0.56
30:BG:103:LEU:O	30:BG:107:LEU:CB	2.49	0.56
30:BG:117:PHE:CZ	30:BG:137:GLU:HB3	2.39	0.56
30:BG:128:ARG:NH2	30:BG:130:ASN:ND2	2.53	0.56
24:BA:2311:A:H5'	30:BG:86:MET:HE2	1.85	0.56
31:BH:116:GLU:CD	31:BH:116:GLU:N	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:43:ASN:HD22	32:BK:43:ASN:N	2.02	0.56
33:BL:18:THR:HA	33:BL:38:VAL:HG21	1.86	0.56
33:BL:41:PHE:CE2	33:BL:55:VAL:HG11	2.39	0.56
37:BP:61:GLY:CA	46:BY:178:GLU:HG3	2.34	0.56
38:BQ:105:ARG:NH2	38:BQ:105:ARG:HA	2.18	0.56
38:BQ:96:ARG:HD2	38:BQ:98:LEU:HD11	1.86	0.56
40:BS:33:LYS:HB3	40:BS:45:PHE:C	2.24	0.56
40:BS:56:GLY:O	40:BS:61:PHE:CA	2.53	0.56
40:BS:92:GLY:C	40:BS:93:ARG:NH2	2.57	0.56
41:BT:55:ARG:HD2	41:BT:55:ARG:N	2.18	0.56
44:BW:61:GLY:CA	44:BW:73:ARG:HB3	2.34	0.56
44:BW:87:GLN:CD	44:BW:87:GLN:N	2.58	0.56
3:AD:18:G:N3	3:AD:58:A:O4'	2.38	0.56
3:AD:21:A:H61	3:AD:48:C:H6	1.53	0.56
24:BA:2112:G:N2	24:BA:2113:U:C2	2.73	0.56
24:BA:2133:G:OP2	24:BA:2156:G:C4	2.58	0.56
24:BA:2157:G:OP2	24:BA:2157:G:N3	2.38	0.56
24:BA:2168:G:C2'	24:BA:2169:A:O5'	2.53	0.56
26:BC:73:ARG:HH11	26:BC:73:ARG:CB	2.18	0.56
24:BA:2106:G:N1	24:BA:2184:G:C6	2.73	0.56
24:BA:172:C:H2'	24:BA:173:G:C8	2.39	0.56
24:BA:173:G:N2	24:BA:174:C:C6	2.73	0.56
4:AE:130:ARG:HD3	4:AE:131:PRO:CD	2.33	0.56
1:AA:1106:G:H5''	5:AF:172:ARG:HG3	1.86	0.56
1:AA:1134:G:OP2	1:AA:1135:U:H5	1.87	0.56
1:AA:1227:A:H8	1:AA:1228:C:O4'	1.88	0.56
1:AA:1320:C:C5	21:AV:37:ARG:CZ	2.88	0.56
1:AA:1326:C:H2'	1:AA:1327:C:H6	1.67	0.56
1:AA:1251:A:O2'	1:AA:1369:C:O2'	2.12	0.56
1:AA:188:U:O2'	1:AA:189:U:H5'	2.05	0.56
1:AA:308:C:H2'	1:AA:309:G:O5'	2.06	0.56
1:AA:633:G:H2'	1:AA:634:C:C6	2.40	0.56
1:AA:702:A:HO2'	1:AA:703:G:P	2.28	0.56
1:AA:88:C:C2'	1:AA:89:U:C6	2.88	0.56
1:AA:961:U:O4	1:AA:974:A:N1	2.38	0.56
2:AC:14:A:C2	2:AC:22:G:C4	2.93	0.56
2:AC:30:G:H2'	2:AC:31:G:O4'	2.04	0.56
4:AE:115:LEU:HD21	4:AE:146:GLN:HA	1.88	0.56
4:AE:47:THR:OG1	4:AE:202:PRO:HG2	2.05	0.56
4:AE:79:ASP:O	4:AE:82:ARG:HB3	2.05	0.56
4:AE:97:TRP:O	4:AE:99:GLY:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:116:VAL:C	5:AF:119:ARG:HB3	2.25	0.56
6:AG:101:LEU:HG	6:AG:102:ASP:N	2.20	0.56
6:AG:177:ASP:OD1	6:AG:179:GLU:HB2	2.05	0.56
6:AG:58:LEU:C	6:AG:58:LEU:HD22	2.25	0.56
6:AG:65:ARG:HE	6:AG:72:GLU:CA	2.18	0.56
9:AJ:106:GLN:O	9:AJ:107:ALA:C	2.41	0.56
9:AJ:3:ARG:C	9:AJ:4:ARG:HG2	2.26	0.56
10:AK:10:LEU:HD11	10:AK:85:ARG:HD3	1.87	0.56
1:AA:756:C:O4'	10:AK:1:MET:CE	2.53	0.56
1:AA:597:G:H22	10:AK:94:TYR:HE2	1.50	0.56
11:AL:66:ARG:C	11:AL:73:GLN:HE21	2.09	0.56
11:AL:71:SER:HA	11:AL:74:ILE:HD12	1.87	0.56
12:AM:27:ALA:HB2	12:AM:85:LEU:HD11	1.86	0.56
13:AN:60:ALA:O	13:AN:63:LEU:N	2.38	0.56
14:AO:54:LYS:O	14:AO:70:ILE:HG13	2.05	0.56
1:AA:1230:C:O2'	15:AP:126:LYS:CE	2.53	0.56
15:AP:37:THR:HG23	15:AP:56:LEU:HD22	1.87	0.56
15:AP:90:LEU:O	15:AP:91:ARG:C	2.43	0.56
15:AP:91:ARG:CZ	15:AP:96:LEU:HD12	2.35	0.56
17:AR:32:LEU:CD2	17:AR:32:LEU:H	2.17	0.56
17:AR:41:GLU:C	17:AR:41:GLU:CD	2.64	0.56
17:AR:70:LEU:HG	17:AR:78:TYR:CB	2.36	0.56
19:AT:18:THR:CG2	19:AT:69:LYS:NZ	2.68	0.56
19:AT:91:ARG:CA	19:AT:94:ASN:ND2	2.66	0.56
20:AU:21:LYS:HZ3	20:AU:24:ALA:N	2.03	0.56
20:AU:46:GLU:OE2	20:AU:46:GLU:N	2.39	0.56
22:AW:31:SER:OG	22:AW:32:ALA:N	2.38	0.56
51:B4:36:CYS:H	51:B4:49:CYS:CB	2.18	0.56
54:B7:33:ASN:O	54:B7:34:TRP:CB	2.52	0.56
24:BA:1127:A:H3'	24:BA:1127:A:C8	2.40	0.56
24:BA:996:A:N6	24:BA:1160:G:C6	2.73	0.56
24:BA:1203:G:C6	24:BA:1240:U:C4	2.91	0.56
24:BA:1238:G:H2'	24:BA:1239:G:O4'	2.05	0.56
24:BA:13:A:C8	24:BA:15:G:O6	2.58	0.56
24:BA:1409:C:H2'	24:BA:1410:G:O4'	2.04	0.56
24:BA:1424:G:C8	24:BA:1424:G:OP2	2.57	0.56
24:BA:1451:C:H2'	24:BA:1457:A:N6	2.20	0.56
24:BA:1512:G:H5'	24:BA:1513:C:P	2.45	0.56
24:BA:1465:G:N2	24:BA:1545(A):A:H1'	2.20	0.56
24:BA:1615:C:H5	24:BA:1617:C:C2	2.22	0.56
24:BA:1623:G:H8	24:BA:1623:G:C5'	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1831:G:C6	24:BA:1975:G:C6	2.92	0.56
24:BA:1954:G:N2	24:BA:1956:U:O2	2.38	0.56
24:BA:1957:C:C2	24:BA:1958:C:C5	2.93	0.56
24:BA:1975:G:H2'	24:BA:1976:U:O4'	2.05	0.56
24:BA:1769:G:N2	24:BA:1984:G:C4	2.73	0.56
24:BA:2013:A:H4'	43:BV:96:ILE:HG22	1.86	0.56
24:BA:2262:U:C4'	24:BA:2328:A:C2	2.87	0.56
24:BA:411:G:O4'	24:BA:2407:G:P	2.63	0.56
24:BA:2245:U:H1'	24:BA:2435:A:H3'	1.87	0.56
24:BA:957:A:H2	24:BA:2459:A:OP1	1.88	0.56
24:BA:2582:G:C2	24:BA:2583:G:H1'	2.39	0.56
24:BA:270(T):G:H2'	24:BA:270(T):G:N3	2.19	0.56
24:BA:2754:U:H6	24:BA:2754:U:O5'	1.88	0.56
24:BA:295:G:C2'	24:BA:338:G:H22	2.17	0.56
24:BA:360:G:H2'	24:BA:361:G:O4'	2.04	0.56
24:BA:662:G:N3	24:BA:663:G:N7	2.53	0.56
24:BA:715:G:C2'	24:BA:716:A:O5'	2.53	0.56
24:BA:846:C:H4'	24:BA:847:U:O5'	2.05	0.56
24:BA:942:G:N1	24:BA:943:U:O4	2.38	0.56
27:BD:177:LEU:O	27:BD:178:PRO:O	2.23	0.56
24:BA:1775:U:C4	27:BD:208:LYS:HG3	2.40	0.56
27:BD:214:TRP:O	27:BD:215:LEU:C	2.44	0.56
27:BD:37:LEU:HB2	27:BD:64:ILE:HG22	1.87	0.56
24:BA:2787:C:H5'	28:BE:64:LYS:HB2	1.87	0.56
28:BE:84:PHE:CD1	28:BE:85:ASN:N	2.69	0.56
29:BF:135:LYS:O	29:BF:139:PHE:HB2	2.05	0.56
29:BF:40:GLN:CB	29:BF:184:TYR:OH	2.53	0.56
30:BG:166:ASP:O	30:BG:167:GLU:C	2.43	0.56
30:BG:181:ARG:HG3	30:BG:182:LYS:N	2.19	0.56
30:BG:9:ARG:HG3	30:BG:9:ARG:NH1	2.19	0.56
31:BH:87:LEU:HD23	31:BH:88:LEU:H	1.70	0.56
33:BL:13:PRO:HG2	33:BL:16:LYS:CB	2.35	0.56
33:BL:42:ASN:O	33:BL:46:ALA:HB2	2.05	0.56
34:BM:4:TYR:CE1	41:BT:101:ARG:NH2	2.73	0.56
35:BN:25:LEU:HD23	35:BN:26:LYS:N	2.16	0.56
35:BN:31:LYS:HB2	35:BN:32:TYR:CE2	2.40	0.56
35:BN:75:SER:C	40:BS:77:PRO:HG2	2.26	0.56
35:BN:7:TYR:HD2	35:BN:44:LYS:HZ2	1.52	0.56
36:BO:91:PHE:HE2	36:BO:99:LEU:HD12	1.69	0.56
37:BP:8:LYS:CD	37:BP:11:LYS:HZ2	2.16	0.56
38:BQ:20:LEU:CD1	38:BQ:44:LEU:HD21	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:106:ARG:HH22	39:BR:110:LEU:HD22	1.70	0.56
39:BR:6:ALA:HA	39:BR:9:ARG:CB	2.35	0.56
41:BT:9:VAL:HG12	41:BT:13:LYS:HE2	1.87	0.56
41:BT:46:ALA:C	41:BT:50:ARG:HD3	2.26	0.56
41:BT:52:ARG:HH11	41:BT:53:ARG:N	2.03	0.56
42:BU:62:LEU:HA	42:BU:99:ILE:HG13	1.87	0.56
43:BV:33:ARG:O	43:BV:33:ARG:NH2	2.38	0.56
44:BW:85:PRO:HG3	44:BW:87:GLN:HG2	1.86	0.56
44:BW:9:LEU:N	44:BW:9:LEU:CD1	2.63	0.56
45:BX:86:ARG:HH21	45:BX:91:GLU:HB3	1.70	0.56
46:BY:122:ARG:NH2	46:BY:170:THR:O	2.38	0.56
46:BY:140:ASP:OD2	46:BY:141:VAL:N	2.39	0.56
47:BZ:65:GLY:HA3	47:BZ:82:ARG:O	2.05	0.56
32:BK:77:LEU:HD12	32:BK:142:VAL:HG22	1.87	0.56
26:BC:82:LYS:HD2	26:BC:149:ILE:HG22	1.86	0.56
26:BC:74:VAL:HG12	26:BC:75:LEU:N	2.20	0.56
24:BA:1579:A:H61	24:BA:1581:G:H21	1.49	0.56
24:BA:162:U:OP2	24:BA:171:G:N1	2.39	0.56
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.35	0.56
1:AA:1200:C:P	1:AA:1200:C:O4'	2.62	0.56
1:AA:1314:C:H3'	21:AV:6:LYS:CD	2.27	0.56
1:AA:1330:U:H4'	15:AP:23:TYR:CZ	2.40	0.56
1:AA:1493:A:HO2'	1:AA:1494:G:C5'	2.19	0.56
1:AA:1539:C:C2	1:AA:1540:U:C5	2.94	0.56
1:AA:66:G:H4'	1:AA:173:U:C4	2.39	0.56
1:AA:301:G:C2	1:AA:302:G:C4	2.94	0.56
1:AA:356:A:H2'	1:AA:357:G:O4'	2.05	0.56
1:AA:498:A:O2'	1:AA:500:G:O4'	2.23	0.56
1:AA:640:A:O2'	10:AK:116:LYS:NZ	2.39	0.56
1:AA:642:A:C2	10:AK:113:SER:O	2.58	0.56
1:AA:750:G:H1'	17:AR:23:GLY:N	2.20	0.56
1:AA:862:C:C2	1:AA:863:U:C5	2.90	0.56
2:AC:24:U:O2'	2:AC:25:C:H5'	2.05	0.56
2:AC:44:A:N6	2:AC:45:G:N2	2.54	0.56
3:AD:1:G:N1	3:AD:73:A:C6	2.74	0.56
4:AE:61:LEU:HD23	4:AE:62:ALA:H	1.69	0.56
5:AF:191:THR:OG1	5:AF:196:LEU:HD21	2.05	0.56
6:AG:130:GLY:HA3	6:AG:131:ARG:NH1	2.20	0.56
6:AG:78:LEU:HD21	6:AG:96:LEU:HD13	1.87	0.56
7:AH:65:ASN:HD21	7:AH:136:MET:HE3	1.70	0.56
7:AH:79:GLU:CD	7:AH:79:GLU:N	2.57	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:737:A:O2'	8:AI:72:VAL:HG21	2.06	0.56
10:AK:31:PHE:HZ	10:AK:113:SER:HB2	1.71	0.56
11:AL:4:TYR:HB3	11:AL:87:GLN:HB3	1.85	0.56
11:AL:97:LYS:HZ2	11:AL:102:LEU:CD1	2.17	0.56
12:AM:11:PHE:HE2	12:AM:66:ARG:O	1.89	0.56
12:AM:6:ILE:O	12:AM:71:LEU:HD13	2.05	0.56
12:AM:79:ARG:CZ	12:AM:82:ILE:HB	2.35	0.56
14:AO:65:GLU:O	14:AO:66:VAL:HG13	2.04	0.56
48:B1:53:ALA:HA	48:B1:56:LEU:HD23	1.86	0.56
50:B3:64:GLY:O	50:B3:67:TYR:N	2.38	0.56
51:B4:23:HIS:O	51:B4:24:ALA:HB3	2.04	0.56
52:B5:23:THR:CG2	52:B5:24:GLU:H	2.17	0.56
52:B5:8:LYS:CD	52:B5:29:ASN:HA	2.34	0.56
53:B6:10:ARG:O	53:B6:14:LYS:HG3	2.04	0.56
54:B7:31:HIS:O	54:B7:32:LEU:HD23	2.05	0.56
54:B7:42:ARG:HB3	54:B7:43:GLN:NE2	2.20	0.56
24:BA:1127:A:H8	24:BA:1127:A:H3'	1.70	0.56
24:BA:1237:A:O2'	24:BA:1238:G:OP1	2.22	0.56
24:BA:1306:C:C2	24:BA:1307:A:C8	2.92	0.56
24:BA:1544:C:O2'	24:BA:1545:A:H1'	2.05	0.56
24:BA:1569:A:C2	24:BA:1570:A:C6	2.94	0.56
24:BA:1609:A:C5	24:BA:1616:A:N3	2.74	0.56
24:BA:1669:A:H2'	24:BA:1670:C:H5'	1.86	0.56
24:BA:1691:C:H2'	24:BA:1692:U:C5'	2.35	0.56
24:BA:1735:C:O2	24:BA:1741:C:H5	1.88	0.56
24:BA:1797:C:HO2'	27:BD:257:LEU:HD12	1.71	0.56
24:BA:1806:C:C2'	24:BA:1807:G:H5'	2.35	0.56
24:BA:1862:G:C2'	24:BA:1863:G:H8	2.18	0.56
24:BA:2014:A:N3	24:BA:2015:A:N1	2.53	0.56
24:BA:2346:A:C2	24:BA:2383:G:C6	2.93	0.56
24:BA:2498:C:C3'	24:BA:2499:C:H5''	2.32	0.56
24:BA:2543:G:C8	24:BA:2544:G:N7	2.73	0.56
24:BA:269:U:C4	24:BA:424:G:N1	2.73	0.56
24:BA:270(I):G:N3	24:BA:270(J):G:H1'	2.19	0.56
24:BA:2714:G:C5	24:BA:2715:C:C5	2.93	0.56
24:BA:2808:U:H6	24:BA:2808:U:O5'	1.88	0.56
24:BA:354:G:O2'	24:BA:355:G:O4'	2.17	0.56
24:BA:14:A:N1	24:BA:526:A:N1	2.53	0.56
24:BA:51:G:C5'	24:BA:52:A:OP1	2.52	0.56
24:BA:623:G:H3'	36:BO:105:LEU:HD23	1.84	0.56
24:BA:700:G:H2'	24:BA:701:G:C8	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:713:G:O2'	24:BA:714:U:P	2.63	0.56
24:BA:723:G:O2'	24:BA:724:U:H5'	2.05	0.56
24:BA:762:U:H1'	24:BA:763:G:C5	2.40	0.56
24:BA:820:A:C2	24:BA:943:U:C2'	2.88	0.56
24:BA:823:G:H3'	24:BA:824:A:H8	1.70	0.56
24:BA:861:A:C6	24:BA:917:A:N7	2.73	0.56
24:BA:820:A:H2	24:BA:943:U:H2'	1.70	0.56
24:BA:973:A:H2'	24:BA:974:G:O5'	2.05	0.56
27:BD:105:ILE:HD11	27:BD:106:ILE:HD11	1.86	0.56
27:BD:137:PRO:HG2	27:BD:140:THR:CG2	2.35	0.56
27:BD:155:LEU:CG	27:BD:155:LEU:O	2.53	0.56
27:BD:50:THR:O	27:BD:51:VAL:HG22	2.05	0.56
28:BE:114:ALA:HB3	28:BE:118:LYS:CB	2.34	0.56
28:BE:164:ARG:C	28:BE:165:VAL:CG2	2.73	0.56
28:BE:183:LEU:HD22	28:BE:183:LEU:N	2.20	0.56
24:BA:2810:A:O2'	28:BE:61:ARG:NH2	2.38	0.56
29:BF:149:ASP:C	29:BF:151:SER:H	2.09	0.56
29:BF:44:ARG:HG3	29:BF:45:ARG:N	2.19	0.56
29:BF:62:ARG:HG3	29:BF:63:LYS:CD	2.35	0.56
31:BH:117:PRO:CB	31:BH:121:ILE:HG12	2.34	0.56
32:BK:24:GLY:HA2	32:BK:27:ARG:HB3	1.86	0.56
32:BK:32:PRO:CG	32:BK:33:ARG:N	2.41	0.56
32:BK:3:VAL:C	32:BK:18:VAL:HG13	2.24	0.56
34:BM:12:ARG:NH1	34:BM:48:MET:CE	2.67	0.56
34:BM:13:TRP:C	34:BM:138:LEU:HD12	2.24	0.56
34:BM:67:LEU:HA	34:BM:70:LYS:HZ1	1.70	0.56
38:BQ:97:VAL:CA	38:BQ:114:VAL:HG22	2.25	0.56
38:BQ:33:ARG:HA	38:BQ:115:GLU:HB3	1.86	0.56
38:BQ:26:LYS:HE2	38:BQ:70:LEU:HB3	1.86	0.56
39:BR:14:VAL:HG13	39:BR:18:ILE:HD11	1.88	0.56
39:BR:44:LYS:HB2	39:BR:46:VAL:HG22	1.86	0.56
39:BR:57:LYS:HB3	39:BR:65:VAL:HG23	1.87	0.56
40:BS:29:ARG:HG2	40:BS:51:ARG:CG	2.25	0.56
40:BS:53:ARG:C	40:BS:64:ARG:HB3	2.22	0.56
41:BT:31:SER:C	41:BT:32:PHE:HD1	2.09	0.56
42:BU:35:LEU:O	42:BU:61:VAL:HA	2.05	0.56
43:BV:72:LYS:HB3	43:BV:106:ILE:HG23	1.86	0.56
43:BV:14:PRO:HG2	43:BV:16:LYS:HE3	1.86	0.56
43:BV:95:ILE:H	43:BV:95:ILE:CD1	1.87	0.56
44:BW:65:ARG:HA	44:BW:70:LEU:CG	2.33	0.56
44:BW:6:ASP:O	44:BW:8:ILE:HG12	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:81:LYS:HZ3	45:BX:96:ILE:HG12	1.70	0.56
46:BY:152:ALA:HB3	46:BY:168:GLU:O	2.05	0.56
46:BY:75:ASN:CB	46:BY:84:GLU:HB2	2.35	0.56
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.31	0.56
1:AA:1296:C:H1'	1:AA:1302:U:C4	2.40	0.56
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.35	0.56
1:AA:1349:A:C2'	1:AA:1350:A:H8	2.09	0.56
1:AA:1399:C:C5	1:AA:1502:A:N7	2.74	0.56
1:AA:237:C:H2'	1:AA:238:G:H8	1.71	0.56
1:AA:487:A:OP2	1:AA:488:C:H5	1.88	0.56
1:AA:551:U:C4'	14:AO:119:LYS:NZ	2.69	0.56
1:AA:594:G:H22	1:AA:596:C:N4	2.02	0.56
1:AA:66:G:O2'	1:AA:67:C:H5'	2.05	0.56
3:AD:2:C:H2'	3:AD:3:C:H6	1.70	0.56
3:AD:73:A:N3	3:AD:74:C:C5'	2.68	0.56
4:AE:102:LEU:HB2	4:AE:176:GLU:CD	2.24	0.56
5:AF:108:ASN:HD21	5:AF:110:ASN:HB2	1.70	0.56
5:AF:29:TYR:HE1	12:AM:65:LEU:CD1	2.19	0.56
7:AH:109:ILE:HG21	7:AH:135:THR:CG2	2.36	0.56
8:AI:75:LEU:O	8:AI:78:GLU:HB3	2.06	0.56
9:AJ:106:GLN:CA	9:AJ:109:ASN:HD22	2.17	0.56
10:AK:37:ARG:CD	10:AK:38:ILE:HD13	2.31	0.56
1:AA:1348:U:H4'	11:AL:120:ARG:HH11	1.69	0.56
11:AL:93:ARG:O	11:AL:95:LYS:N	2.27	0.56
12:AM:57:LYS:O	12:AM:57:LYS:HG2	2.04	0.56
13:AN:87:THR:HG22	13:AN:91:ARG:NH2	2.21	0.56
1:AA:33:A:N3	14:AO:32:PHE:CZ	2.73	0.56
15:AP:20:THR:CA	15:AP:25:ILE:HB	2.35	0.56
20:AU:40:LEU:C	20:AU:42:ARG:H	2.09	0.56
20:AU:79:LEU:O	20:AU:79:LEU:CD1	2.49	0.56
22:AW:40:ALA:HA	22:AW:55:ILE:CD1	2.36	0.56
48:B1:29:GLU:O	48:B1:33:GLN:OE1	2.24	0.56
52:B5:19:ARG:NH2	52:B5:47:THR:OG1	2.38	0.56
53:B6:22:MET:HG3	53:B6:28:ARG:HG2	1.87	0.56
24:BA:242:G:H5''	54:B7:4:MET:HE3	1.88	0.56
24:BA:1005:C:O2'	24:BA:1006:C:H5'	2.04	0.56
24:BA:1023:U:OP1	24:BA:1025:G:N2	2.37	0.56
24:BA:1071:G:C4	24:BA:1089:G:C5	2.93	0.56
24:BA:1024:G:C5	24:BA:1134:G:H1'	2.40	0.56
24:BA:1151:G:H2'	24:BA:1152:C:C5	2.38	0.56
24:BA:1303:G:C6	24:BA:1304:C:C4	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1525:G:H2'	24:BA:1526:G:H8	1.71	0.56
24:BA:1557:C:H3'	24:BA:1558:A:H5''	1.86	0.56
24:BA:1631:A:N1	24:BA:1632:A:N3	2.53	0.56
24:BA:1663:C:C3'	24:BA:1664:A:N3	2.67	0.56
24:BA:1728:G:OP1	24:BA:1728:G:H3'	2.05	0.56
24:BA:1731:G:H22	24:BA:1733:G:H22	1.54	0.56
24:BA:176:G:O2'	24:BA:177:G:H5'	2.05	0.56
1:AA:784:C:C5'	24:BA:1837:C:OP1	2.52	0.56
24:BA:182:A:C2	24:BA:183:C:N3	2.74	0.56
24:BA:1915:U:O2	24:BA:1916:A:C8	2.58	0.56
24:BA:228:A:C8	24:BA:229:A:O2'	2.59	0.56
24:BA:2824:C:N3	24:BA:2825:C:H1'	2.20	0.56
24:BA:416:C:H41	24:BA:417:C:N4	2.02	0.56
24:BA:541:C:H2'	24:BA:542:C:H6	1.69	0.56
24:BA:55:G:N3	24:BA:56:A:C8	2.73	0.56
24:BA:60:G:N2	24:BA:68:G:N2	2.53	0.56
24:BA:783:A:H3'	27:BD:227:ASN:CG	2.25	0.56
24:BA:800:A:O2'	24:BA:801:G:C5'	2.53	0.56
24:BA:880:G:C6	24:BA:881:G:H1'	2.39	0.56
24:BA:943:U:C6	24:BA:944:G:N7	2.73	0.56
25:BB:13:A:C2'	25:BB:14:U:H5''	2.35	0.56
27:BD:143:HIS:O	27:BD:144:ALA:HB3	2.05	0.56
24:BA:2216:G:N2	27:BD:150:LYS:NZ	2.53	0.56
27:BD:134:ARG:CA	27:BD:168:ARG:HH12	2.19	0.56
24:BA:1789:A:OP1	27:BD:222:ARG:CB	2.54	0.56
28:BE:118:LYS:O	28:BE:119:ARG:C	2.44	0.56
29:BF:155:LEU:HD11	29:BF:185:ASP:HB3	1.86	0.56
30:BG:57:ALA:HB1	30:BG:67:LYS:HB2	1.87	0.56
31:BH:33:LEU:HD23	31:BH:33:LEU:C	2.26	0.56
31:BH:83:TYR:CD1	31:BH:138:LYS:HA	2.41	0.56
32:BK:6:LEU:HD13	32:BK:7:GLU:OE2	2.04	0.56
34:BM:80:GLY:O	34:BM:81:GLY:O	2.23	0.56
24:BA:1189:A:C5'	36:BO:29:LYS:HD3	2.35	0.56
36:BO:68:GLN:N	36:BO:68:GLN:HE21	2.03	0.56
36:BO:96:THR:HB	36:BO:99:LEU:CB	2.34	0.56
38:BQ:107:ASP:CG	38:BQ:109:ALA:H	2.08	0.56
38:BQ:9:LYS:O	38:BQ:10:LEU:HD23	2.06	0.56
24:BA:1754:C:O4'	40:BS:104:ASN:ND2	2.38	0.56
40:BS:1:MET:CG	40:BS:2:ASN:H	2.17	0.56
41:BT:58:ARG:O	41:BT:62:ILE:HG13	2.05	0.56
43:BV:41:LYS:NZ	43:BV:41:LYS:CB	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:88:ARG:NE	43:BV:88:ARG:CA	2.61	0.56
24:BA:64:A:H1'	44:BW:66:LEU:HD23	1.86	0.56
45:BX:16:ALA:HB3	45:BX:68:HIS:ND1	2.19	0.56
32:BK:114:LEU:CB	32:BK:130:TYR:HB3	2.36	0.56
32:BK:111:PRO:HG2	32:BK:112:LYS:HG2	1.87	0.56
24:BA:2148:G:N3	24:BA:2149:G:N7	2.54	0.56
24:BA:2176:A:H2'	24:BA:2177:C:C6	2.40	0.56
26:BC:113:VAL:HG23	26:BC:144:THR:CG2	2.36	0.56
26:BC:190:ARG:HD3	26:BC:193:ILE:CD1	2.35	0.56
26:BC:39:GLU:HG2	26:BC:41:VAL:CG2	2.35	0.56
24:BA:2132:U:H3'	24:BA:2133:G:H5''	1.78	0.56
26:BC:26:ALA:HB1	26:BC:185:LEU:HD12	1.87	0.56
1:AA:1002:G:N2	1:AA:1039:C:C4	2.73	0.56
24:BA:155:C:O2	24:BA:171:G:N2	2.38	0.56
1:AA:216:G:H2'	1:AA:217:C:C5	2.41	0.56
1:AA:1384:C:H2'	1:AA:1385:G:O4'	2.05	0.56
26:BC:36:LYS:O	26:BC:37:PHE:HB3	2.04	0.56
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.40	0.56
1:AA:12:U:C2	1:AA:13:U:O4	2.57	0.56
1:AA:1389:C:O2'	1:AA:1390:U:H5'	2.05	0.56
1:AA:1436:U:C2'	1:AA:1437:C:H5'	2.36	0.56
1:AA:1443:G:O5'	1:AA:1446:A:OP1	2.21	0.56
1:AA:1493:A:O2'	1:AA:1494:G:O5'	2.23	0.56
1:AA:186:C:H4'	22:AW:81:LYS:HB2	1.87	0.56
1:AA:224:C:C2	1:AA:225:C:C5	2.93	0.56
1:AA:284:G:H2'	1:AA:285:G:H8	1.70	0.56
1:AA:392:G:C5'	18:AS:12:LYS:HE2	2.35	0.56
1:AA:707:C:H2'	1:AA:708:C:C5'	2.36	0.56
1:AA:762:C:C2	1:AA:763:G:N7	2.73	0.56
1:AA:822:C:H2'	1:AA:823:G:H8	1.70	0.56
1:AA:862:C:O2'	1:AA:874:G:H5''	2.06	0.56
1:AA:974:A:H5'	1:AA:975:A:OP1	2.06	0.56
3:AD:35:A:H2'	3:AD:36:A:O4'	2.06	0.56
4:AE:234:PRO:HB2	4:AE:238:LEU:HD22	1.87	0.56
4:AE:81:VAL:O	4:AE:82:ARG:C	2.43	0.56
6:AG:191:ARG:NH1	6:AG:194:LEU:O	2.38	0.56
7:AH:119:LEU:N	7:AH:119:LEU:HD23	2.20	0.56
8:AI:45:LEU:CD2	8:AI:59:TYR:HD1	2.19	0.56
11:AL:65:VAL:HG22	11:AL:73:GLN:HB3	1.87	0.56
11:AL:74:ILE:HA	11:AL:77:ILE:CD1	2.27	0.56
12:AM:51:ARG:HB2	12:AM:59:SER:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:92:ASP:C	14:AO:93:LEU:HD23	2.24	0.56
15:AP:14:ARG:HE	15:AP:44:ARG:HH11	1.54	0.56
16:AQ:34:TYR:OH	16:AQ:41:ARG:HA	2.05	0.56
21:AV:63:THR:CG2	21:AV:64:GLU:N	2.68	0.56
24:BA:95:G:H4'	48:B1:39:LEU:O	2.04	0.56
49:B2:5:LYS:HD2	49:B2:5:LYS:C	2.26	0.56
52:B5:17:LYS:HG2	52:B5:19:ARG:HE	1.71	0.56
53:B6:8:ASN:HD21	53:B6:10:ARG:CB	2.05	0.56
54:B7:52:LYS:HG2	54:B7:56:GLU:OE1	2.05	0.56
24:BA:1007:C:H2'	24:BA:1008:C:C5	2.40	0.56
24:BA:1027:A:C6	24:BA:1126:A:H1'	2.41	0.56
24:BA:1188:U:N3	24:BA:1189:A:C8	2.73	0.56
24:BA:1264:G:H3'	24:BA:1265:A:H5''	1.84	0.56
24:BA:1316:U:O2'	24:BA:1317:A:H5'	2.04	0.56
24:BA:1354:A:C8	24:BA:1355:G:C8	2.93	0.56
24:BA:138:G:H21	24:BA:139:G:H8	1.51	0.56
24:BA:1520:U:O2'	24:BA:1521:G:O4'	2.23	0.56
24:BA:1531:C:C2	24:BA:1532:C:C5	2.93	0.56
24:BA:1613:G:N2	24:BA:1619:G:C8	2.72	0.56
24:BA:1672:C:H3'	24:BA:1673:U:C5'	2.29	0.56
24:BA:1708:C:H2'	24:BA:1709:U:H5'	1.86	0.56
24:BA:176:G:H2'	24:BA:177:G:H8	1.71	0.56
24:BA:1800:C:H1'	24:BA:1802:A:C8	2.40	0.56
24:BA:1832:C:H2'	24:BA:1833:U:H5'	1.86	0.56
24:BA:2572:A:H4'	24:BA:2573:C:H5'	1.83	0.56
24:BA:2619:C:O2'	24:BA:2620:C:C5'	2.53	0.56
24:BA:2625:G:H1	24:BA:2777:G:N2	2.04	0.56
24:BA:2674:G:H4'	35:BN:26:LYS:HZ2	1.69	0.56
24:BA:2824:C:C4	24:BA:2825:C:H1'	2.40	0.56
24:BA:2858:C:H3'	24:BA:2859:G:C8	2.41	0.56
24:BA:449:A:O2'	24:BA:450:G:C5'	2.48	0.56
24:BA:532:A:O3'	41:BT:28:ARG:HD2	2.05	0.56
24:BA:563:G:N2	24:BA:564:C:C2	2.74	0.56
24:BA:598:G:H2'	24:BA:599:G:O4'	2.06	0.56
24:BA:703:U:H3'	24:BA:704:G:C8	2.40	0.56
24:BA:809:G:N7	24:BA:810:U:C5	2.74	0.56
24:BA:871:U:H4'	37:BP:69:PHE:CE2	2.39	0.56
24:BA:94:G:N2	24:BA:95:G:H1'	2.20	0.56
25:BB:13:A:N1	25:BB:69:G:H2'	2.21	0.56
27:BD:133:LEU:HG	27:BD:187:GLY:O	2.04	0.56
27:BD:133:LEU:HB3	27:BD:136:ILE:HD11	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:173:VAL:C	27:BD:174:ILE:HD12	2.26	0.56
27:BD:134:ARG:HG3	27:BD:187:GLY:C	2.25	0.56
27:BD:208:LYS:HZ2	27:BD:211:ARG:HG3	1.65	0.56
27:BD:217:ARG:HG3	27:BD:218:ARG:HG2	1.88	0.56
24:BA:1824:G:H21	27:BD:253:GLN:NE2	2.02	0.56
27:BD:264:LYS:HB2	27:BD:265:PRO:CD	2.36	0.56
27:BD:6:PHE:N	27:BD:28:GLU:OE1	2.38	0.56
27:BD:46:GLN:NE2	27:BD:52:ARG:CZ	2.67	0.56
27:BD:87:ASN:N	27:BD:87:ASN:ND2	2.52	0.56
28:BE:100:GLU:C	28:BE:172:VAL:HG13	2.25	0.56
28:BE:101:ARG:HE	28:BE:169:ASN:HD21	1.54	0.56
28:BE:63:LEU:O	28:BE:66:HIS:ND1	2.38	0.56
28:BE:71:GLY:O	28:BE:72:VAL:HG22	2.05	0.56
2:AC:56:C:HO2'	30:BG:82:LEU:HA	1.67	0.56
31:BH:20:ALA:CB	31:BH:21:PRO:HD2	2.34	0.56
31:BH:89:ILE:CD1	31:BH:90:LYS:N	2.62	0.56
34:BM:2:LYS:HB3	34:BM:2:LYS:NZ	2.21	0.56
34:BM:34:LEU:CD1	34:BM:120:LEU:HD22	2.35	0.56
35:BN:64:ARG:CA	35:BN:81:ASP:OD2	2.52	0.56
36:BO:137:LYS:HD3	36:BO:140:ALA:HB2	1.88	0.56
37:BP:109:VAL:HG11	37:BP:114:ALA:CB	2.35	0.56
38:BQ:103:ARG:HB2	38:BQ:108:GLY:C	2.25	0.56
24:BA:2880:C:O4'	38:BQ:91:GLN:HB3	2.05	0.56
39:BR:24:LEU:HA	39:BR:41:ASP:CB	2.36	0.56
39:BR:69:VAL:O	39:BR:73:LEU:CD1	2.52	0.56
40:BS:17:THR:CG2	40:BS:22:PHE:CZ	2.88	0.56
40:BS:33:LYS:CG	40:BS:87:ASP:HB3	2.34	0.56
41:BT:57:PHE:HD2	41:BT:61:TRP:NE1	2.03	0.56
41:BT:66:ASN:O	41:BT:70:ARG:HG3	2.05	0.56
24:BA:996:A:C5'	41:BT:93:LYS:HG3	2.36	0.56
44:BW:47:PHE:HB3	44:BW:49:VAL:HG13	1.87	0.56
45:BX:2:ARG:O	45:BX:30:VAL:O	2.24	0.56
24:BA:2353:G:C4'	47:BZ:32:ARG:HH12	2.16	0.56
32:BK:147:GLN:O	32:BK:148:GLU:OXT	2.23	0.56
32:BK:86:THR:O	32:BK:88:ILE:HD12	2.05	0.56
32:BK:93:THR:HG23	32:BK:96:ASP:H	1.69	0.56
26:BC:78:ALA:HB1	26:BC:118:ASP:CG	2.25	0.56
32:BK:118:LYS:O	32:BK:119:PRO:C	2.42	0.56
1:AA:1136:U:H5''	1:AA:1137:C:OP2	2.06	0.56
1:AA:1184:G:N3	1:AA:1185:G:N7	2.52	0.56
1:AA:122:G:C2	1:AA:123:C:N1	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1236:A:C4'	1:AA:1304:G:H4'	2.13	0.56
1:AA:1537:U:H2'	1:AA:1538:C:C6	2.40	0.56
1:AA:294:U:O2	1:AA:295:C:C5	2.59	0.56
1:AA:49:U:N3	1:AA:364:A:N7	2.53	0.56
1:AA:425:G:C2	1:AA:426:G:C8	2.94	0.56
1:AA:501:C:O2'	1:AA:549:C:O2	2.23	0.56
1:AA:581:G:O6	1:AA:758:G:C8	2.59	0.56
1:AA:636:U:O2'	1:AA:637:G:H5'	2.05	0.56
1:AA:643:C:O2'	1:AA:644:G:H5'	2.05	0.56
1:AA:817:C:O2'	1:AA:818:G:P	2.63	0.56
1:AA:878:G:OP1	10:AK:88:LYS:HG2	2.05	0.56
1:AA:959:A:H8	1:AA:959:A:O5'	1.88	0.56
1:AA:979:C:C2	1:AA:980:C:O4'	2.59	0.56
4:AE:102:LEU:HD22	4:AE:176:GLU:HB2	1.88	0.56
4:AE:220:ASP:HA	4:AE:223:ILE:HD12	1.87	0.56
6:AG:188:LEU:C	6:AG:189:PRO:O	2.41	0.56
7:AH:26:PHE:CD1	7:AH:26:PHE:N	2.71	0.56
8:AI:47:ARG:HD3	8:AI:57:GLN:HB3	1.87	0.56
9:AJ:49:ILE:HG21	9:AJ:121:ALA:HB1	1.87	0.56
9:AJ:88:PRO:HG2	9:AJ:152:ALA:HB2	1.87	0.56
9:AJ:79:ARG:NH1	9:AJ:84:ASN:CB	2.62	0.56
11:AL:10:ARG:NH1	11:AL:105:ASP:OD2	2.38	0.56
1:AA:942:G:N2	11:AL:124:GLN:OE1	2.39	0.56
11:AL:5:TYR:CD2	11:AL:6:GLY:N	2.73	0.56
11:AL:96:LEU:O	11:AL:100:GLY:CA	2.43	0.56
12:AM:50:ILE:CA	12:AM:60:ARG:HG3	2.35	0.56
14:AO:29:GLY:O	14:AO:30:ALA:O	2.22	0.56
14:AO:69:TYR:O	14:AO:71:PRO:CD	2.54	0.56
15:AP:11:ARG:C	15:AP:13:LYS:H	2.08	0.56
17:AR:29:VAL:HG21	17:AR:81:LEU:HD11	1.87	0.56
1:AA:736:C:OP1	20:AU:72:ARG:CZ	2.53	0.56
13:AN:110:ASP:HB2	20:AU:88:LYS:CD	2.34	0.56
48:B1:16:LEU:HD12	48:B1:16:LEU:O	2.05	0.56
51:B4:17:ASP:O	51:B4:18:ALA:C	2.43	0.56
52:B5:19:ARG:HD3	52:B5:19:ARG:O	2.05	0.56
54:B7:1:MET:H2	54:B7:2:PRO:HD2	1.68	0.56
24:BA:1045:A:O2'	24:BA:1047:G:O4'	2.23	0.56
24:BA:10:G:C2	24:BA:2629:A:C2	2.94	0.56
24:BA:1000:A:C6	24:BA:1155:A:C8	2.92	0.56
24:BA:1203:G:N1	24:BA:1241:A:C8	2.73	0.56
24:BA:1326:U:H2'	24:BA:1327:C:C4'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1419:A:H3'	24:BA:1420:U:O4'	2.06	0.56
24:BA:1688:U:O4'	24:BA:1701:A:N6	2.38	0.56
24:BA:1743:G:H4'	24:BA:1743:G:OP1	2.04	0.56
24:BA:1782:C:H5'	24:BA:2609:U:C4	2.40	0.56
24:BA:1797:C:O2'	27:BD:257:LEU:HD12	2.06	0.56
24:BA:1820:U:C2	27:BD:202:LYS:CG	2.86	0.56
24:BA:200:U:H3'	24:BA:201:C:C5'	2.35	0.56
24:BA:2216:G:C8	24:BA:2216:G:O5'	2.59	0.56
24:BA:2269:A:H2'	24:BA:2270:G:C5'	2.35	0.56
24:BA:2066:C:C2	24:BA:2445:G:N2	2.74	0.56
24:BA:2468:G:C8	24:BA:2476:A:C2	2.94	0.56
24:BA:2547:U:C3'	24:BA:2548:G:C5'	2.84	0.56
24:BA:2690:C:H5	38:BQ:14:SER:CB	2.14	0.56
24:BA:2703:C:O2	24:BA:2704:C:C6	2.57	0.56
24:BA:2831:G:HO2'	24:BA:2883:A:H2'	1.69	0.56
24:BA:320:A:P	29:BF:135:LYS:HE2	2.45	0.56
24:BA:479:A:H4'	24:BA:480:A:H5'	1.87	0.56
24:BA:481:G:HO2'	24:BA:482:A:H8	1.51	0.56
24:BA:573:G:H2'	24:BA:574:C:H5''	1.86	0.56
24:BA:600:G:H4'	29:BF:105:VAL:HG13	1.87	0.56
25:BB:114:G:O4'	39:BR:47:THR:HB	2.05	0.56
25:BB:29:A:N3	25:BB:56:G:N2	2.53	0.56
25:BB:6:C:H4'	25:BB:28:C:H5'	1.87	0.56
25:BB:75:G:H4'	46:BY:36:LYS:NZ	2.20	0.56
27:BD:130:ALA:HB1	27:BD:191:ALA:O	2.05	0.56
24:BA:1819:A:C5'	27:BD:178:PRO:HG3	2.29	0.56
27:BD:22:SER:OG	27:BD:206:LEU:O	2.13	0.56
27:BD:54:ARG:CA	27:BD:220:HIS:H	2.10	0.56
27:BD:88:ARG:HG3	27:BD:90:ALA:H	1.70	0.56
27:BD:7:LYS:HZ3	27:BD:91:ARG:NH1	2.01	0.56
24:BA:2052:G:O2'	28:BE:143:ASN:O	2.22	0.56
24:BA:2683:C:C5'	28:BE:19:ARG:HH12	2.18	0.56
29:BF:155:LEU:O	29:BF:193:VAL:O	2.23	0.56
29:BF:157:VAL:HG23	29:BF:157:VAL:O	2.05	0.56
30:BG:8:LYS:CE	30:BG:100:TRP:HD1	2.18	0.56
30:BG:30:GLU:HB3	30:BG:162:THR:HB	1.87	0.56
30:BG:56:ALA:CB	30:BG:68:PRO:HG2	2.36	0.56
31:BH:137:ASP:O	31:BH:138:LYS:C	2.44	0.56
31:BH:157:TYR:CD1	31:BH:158:HIS:N	2.74	0.56
24:BA:2748:A:O2'	31:BH:66:GLY:CA	2.52	0.56
33:BL:132:ARG:HG3	33:BL:132:ARG:NH1	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:136:GLU:C	34:BM:137:LYS:CG	2.74	0.56
34:BM:40:PRO:HA	34:BM:42:TRP:CD2	2.41	0.56
35:BN:108:GLU:HB3	35:BN:111:PHE:HE2	1.69	0.56
35:BN:14:THR:OG1	35:BN:16:ALA:C	2.43	0.56
35:BN:22:ILE:HD12	35:BN:40:VAL:CG2	2.35	0.56
36:BO:128:HIS:N	36:BO:128:HIS:ND1	2.53	0.56
38:BQ:10:LEU:HB3	38:BQ:17:ARG:NH1	2.20	0.56
38:BQ:54:LEU:CD1	38:BQ:54:LEU:H	2.15	0.56
40:BS:103:ARG:NH2	40:BS:103:ARG:HG3	2.11	0.56
40:BS:27:THR:CG2	40:BS:27:THR:O	2.54	0.56
41:BT:54:LYS:HD2	41:BT:54:LYS:H	1.71	0.56
42:BU:68:LYS:HZ3	42:BU:95:LEU:HD11	1.70	0.56
42:BU:73:SER:OG	42:BU:75:PHE:HZ	1.88	0.56
24:BA:1225:C:H5'	42:BU:87:HIS:HA	1.88	0.56
44:BW:49:VAL:HG12	44:BW:88:LYS:HG3	1.87	0.56
45:BX:65:ALA:HB3	45:BX:66:PRO:CD	2.35	0.56
46:BY:141:VAL:HB	46:BY:150:LEU:CD1	2.36	0.56
46:BY:127:LYS:CA	46:BY:164:ALA:HB3	2.17	0.56
46:BY:60:GLU:OE2	46:BY:67:LEU:O	2.22	0.56
37:BP:85:LYS:HE3	47:BZ:10:THR:OG1	2.06	0.56
47:BZ:17:GLN:OE1	47:BZ:18:ALA:HB3	2.06	0.56
32:BK:113:ARG:O	32:BK:114:LEU:CG	2.53	0.56
32:BK:77:LEU:CD1	32:BK:142:VAL:HG13	2.32	0.56
3:AD:47:U:H3	3:AD:50:G:P	2.29	0.56
24:BA:2115:G:C2	24:BA:2117:A:N7	2.74	0.56
24:BA:2195:C:H2'	24:BA:2196:C:C6	2.38	0.56
1:AA:341:C:O2'	1:AA:342:C:H5'	2.06	0.56
24:BA:2191:G:H2'	24:BA:2192:G:O4'	2.05	0.56
24:BA:1494:A:H8	24:BA:1494:A:OP1	1.89	0.56
1:AA:1353:G:C2	1:AA:1370:G:N2	2.73	0.56
1:AA:1408:A:H2	1:AA:1494:G:C1'	2.11	0.56
1:AA:69:G:H2'	1:AA:69:G:N3	2.20	0.56
1:AA:770:C:H1'	1:AA:900:A:H2	1.69	0.56
1:AA:953:G:H1'	15:AP:126:LYS:N	2.20	0.56
1:AA:968:A:OP1	1:AA:968:A:H8	1.88	0.56
2:AC:14:A:N6	2:AC:21:A:H2	1.89	0.56
3:AD:76:A:H3'	24:BA:2432:A:C4'	2.35	0.56
4:AE:97:TRP:HZ2	4:AE:102:LEU:CD1	2.14	0.56
5:AF:67:THR:CG2	5:AF:69:HIS:CE1	2.88	0.56
6:AG:141:ARG:O	6:AG:143:GLY:N	2.39	0.56
6:AG:13:ARG:HH21	6:AG:40:PRO:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:52:SER:O	6:AG:55:ALA:N	2.38	0.56
7:AH:121:LYS:HZ1	7:AH:122:GLU:N	2.02	0.56
7:AH:105:VAL:HG21	7:AH:132:ALA:HB2	1.87	0.56
7:AH:53:LEU:O	7:AH:57:LYS:HB2	2.06	0.56
8:AI:60:PHE:O	8:AI:61:LEU:HD23	2.05	0.56
8:AI:64:GLN:C	8:AI:65:VAL:CG1	2.74	0.56
8:AI:98:LEU:HD22	8:AI:101:ALA:CB	2.32	0.56
9:AJ:74:GLU:HB3	9:AJ:91:VAL:HG21	1.88	0.56
10:AK:11:THR:O	10:AK:12:ARG:C	2.43	0.56
10:AK:114:THR:HA	10:AK:130:GLY:O	2.05	0.56
10:AK:21:LYS:CA	10:AK:21:LYS:HE2	2.34	0.56
10:AK:82:HIS:CE1	10:AK:84:ARG:HB2	2.41	0.56
12:AM:3:LYS:NZ	12:AM:3:LYS:N	2.53	0.56
12:AM:65:LEU:CD1	16:AQ:36:PHE:HZ	2.19	0.56
13:AN:75:TYR:O	13:AN:77:MET:N	2.38	0.56
13:AN:86:GLY:H	13:AN:112:THR:HA	1.70	0.56
14:AO:6:THR:O	14:AO:10:LEU:HD12	2.06	0.56
14:AO:120:TYR:O	14:AO:121:GLY:O	2.23	0.56
1:AA:552:U:C4'	14:AO:86:ARG:O	2.50	0.56
15:AP:49:THR:HG22	15:AP:51:ALA:H	1.69	0.56
17:AR:6:GLU:N	17:AR:6:GLU:OE2	2.36	0.56
19:AT:80:GLY:O	19:AT:81:ARG:C	2.44	0.56
21:AV:15:LEU:HD12	21:AV:44:MET:HE1	1.86	0.56
22:AW:37:SER:O	22:AW:41:ILE:HG13	2.05	0.56
48:B1:58:VAL:O	48:B1:59:LEU:C	2.43	0.56
49:B2:15:TYR:CD1	49:B2:20:LYS:HE3	2.40	0.56
51:B4:4:HIS:CG	51:B4:5:PRO:HD3	2.40	0.56
53:B6:8:ASN:OD1	53:B6:11:LYS:N	2.39	0.56
24:BA:1028:A:C2	24:BA:1029:A:C6	2.94	0.56
24:BA:1434:A:C2	24:BA:1435:G:N9	2.74	0.56
24:BA:1567:A:H5''	27:BD:59:LYS:CD	2.35	0.56
24:BA:1572:A:OP1	24:BA:1572:A:H8	1.88	0.56
24:BA:1572:A:O4'	24:BA:1572:A:P	2.64	0.56
24:BA:1708:C:O2'	24:BA:1709:U:H5''	2.05	0.56
24:BA:1718:G:H2'	24:BA:1725:G:C8	2.38	0.56
24:BA:1728:G:N2	24:BA:1729:A:N7	2.54	0.56
24:BA:1925:C:H2'	24:BA:1926:U:O5'	2.05	0.56
24:BA:1980:G:C5	24:BA:1982:C:C4	2.94	0.56
24:BA:2082:A:C4	24:BA:2083:G:C8	2.93	0.56
24:BA:2408:U:H3'	24:BA:2408:U:C6	2.41	0.56
24:BA:2440:C:C5'	24:BA:2587:A:H4'	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2460:U:H5''	24:BA:2460:U:H6	1.70	0.56
24:BA:2849:U:H1'	24:BA:2868:A:C4	2.41	0.56
24:BA:295:G:N7	24:BA:344:G:N2	2.54	0.56
24:BA:415:A:N1	24:BA:416:C:C2	2.73	0.56
24:BA:269:U:C4	24:BA:424:G:C6	2.94	0.56
24:BA:41:C:O2'	24:BA:43:G:H5'	2.05	0.56
24:BA:481:G:C2'	24:BA:507:A:H61	2.19	0.56
24:BA:549:G:H2'	24:BA:550:G:C8	2.41	0.56
24:BA:58:G:H1'	24:BA:70:G:H22	1.67	0.56
24:BA:602:G:H2'	24:BA:655:A:N1	2.21	0.56
24:BA:684:G:OP1	53:B6:16:HIS:NE2	2.39	0.56
24:BA:776:G:C1'	24:BA:793:A:N1	2.63	0.56
24:BA:860:U:H5	24:BA:861:A:C8	2.21	0.56
24:BA:878:A:C1'	24:BA:879:G:C8	2.88	0.56
24:BA:881:G:H1	24:BA:896:A:H61	1.54	0.56
24:BA:905:U:C4	24:BA:906:G:C8	2.94	0.56
25:BB:88:C:O2	25:BB:88:C:H2'	2.04	0.56
27:BD:14:ARG:HD3	27:BD:15:PHE:CD1	2.40	0.56
27:BD:54:ARG:HB2	27:BD:218:ARG:HB3	1.87	0.56
27:BD:6:PHE:O	27:BD:28:GLU:OE1	2.24	0.56
27:BD:88:ARG:HA	27:BD:88:ARG:NE	2.19	0.56
28:BE:50:GLY:N	28:BE:76:ARG:HG3	2.20	0.56
29:BF:140:LEU:HD23	29:BF:141:ALA:N	2.20	0.56
29:BF:176:LEU:C	29:BF:178:PRO:CD	2.74	0.56
29:BF:182:ASN:OD1	29:BF:185:ASP:N	2.36	0.56
30:BG:107:LEU:HG	30:BG:177:GLY:CA	2.35	0.56
30:BG:87:PRO:C	30:BG:88:ILE:HG13	2.25	0.56
30:BG:8:LYS:CE	30:BG:12:TYR:HB3	2.33	0.56
31:BH:163:TYR:HE2	31:BH:169:VAL:HG11	1.70	0.56
31:BH:7:LEU:HA	31:BH:52:VAL:CG1	2.35	0.56
33:BL:95:LYS:HG2	33:BL:137:GLU:OE2	2.06	0.56
33:BL:27:LEU:CA	33:BL:32:ALA:HB3	2.36	0.56
24:BA:2640:G:H4'	34:BM:75:TYR:OH	2.05	0.56
35:BN:41:ALA:CA	35:BN:59:LYS:HZ1	2.18	0.56
36:BO:127:ALA:C	36:BO:128:HIS:CG	2.79	0.56
36:BO:136:GLU:C	36:BO:137:LYS:HE3	2.26	0.56
36:BO:60:MET:C	36:BO:60:MET:SD	2.84	0.56
36:BO:85:LEU:HD13	36:BO:86:LYS:CE	2.36	0.56
37:BP:41:TRP:HA	37:BP:96:VAL:HA	1.86	0.56
38:BQ:9:LYS:C	38:BQ:10:LEU:HD23	2.25	0.56
38:BQ:3:HIS:CG	38:BQ:4:LEU:N	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:71:ARG:HA	39:BR:104:GLY:C	2.26	0.56
39:BR:75:GLU:HA	39:BR:111:GLU:OE2	2.05	0.56
44:BW:31:HIS:O	44:BW:33:LYS:N	2.38	0.56
44:BW:62:LYS:O	44:BW:63:LYS:CB	2.52	0.56
45:BX:14:LEU:HD13	45:BX:20:TYR:C	2.26	0.56
45:BX:72:VAL:CG1	45:BX:73:ARG:N	2.68	0.56
46:BY:157:LEU:CB	46:BY:161:VAL:HG13	2.36	0.56
24:BA:1589:C:O2'	24:BA:1590:U:H5'	2.06	0.56
27:BD:125:ILE:O	27:BD:125:ILE:HG22	2.05	0.56
1:AA:1049:U:H1'	1:AA:1201:A:O4'	2.06	0.56
1:AA:1198:G:C2'	1:AA:1199:U:H5'	2.35	0.56
1:AA:1317:C:O2'	1:AA:1318:A:H5'	2.06	0.56
1:AA:946:A:O2'	1:AA:1333:A:H1'	2.05	0.56
1:AA:1361:G:H2'	1:AA:1362:C:H5'	1.86	0.56
1:AA:1436:U:O2'	1:AA:1437:C:H5'	2.05	0.56
1:AA:1528:U:H2'	1:AA:1530:G:H5'	1.88	0.56
1:AA:153:C:C2	1:AA:154:C:C5	2.94	0.56
1:AA:226:G:O2'	1:AA:227:G:C5'	2.53	0.56
1:AA:307:C:N3	1:AA:308:C:H5	2.04	0.56
1:AA:35:G:O2'	1:AA:36:C:H5'	2.05	0.56
1:AA:649:G:H2'	1:AA:650:G:C8	2.39	0.56
1:AA:722:A:H5'	1:AA:723:U:O4	2.06	0.56
1:AA:959:A:H2'	1:AA:960:U:C4'	2.33	0.56
2:AC:20:U:O2	2:AC:20:U:C2'	2.54	0.56
2:AC:37:A:C5	2:AC:38:A:N7	2.74	0.56
2:AC:44:A:N3	2:AC:44:A:H2'	2.21	0.56
4:AE:115:LEU:HD12	4:AE:115:LEU:O	2.06	0.56
4:AE:145:LEU:HD12	4:AE:149:LEU:HD13	1.88	0.56
4:AE:17:PHE:CA	4:AE:42:ILE:HG22	2.35	0.56
5:AF:35:GLU:O	5:AF:39:ILE:HG13	2.05	0.56
5:AF:21:ARG:O	5:AF:58:GLU:HA	2.06	0.56
5:AF:59:ARG:NH1	5:AF:59:ARG:HB2	2.20	0.56
6:AG:24:GLU:O	6:AG:27:TYR:HB3	2.06	0.56
8:AI:69:GLU:O	8:AI:72:VAL:HG22	2.06	0.56
10:AK:27:PRO:O	10:AK:32:LYS:CE	2.54	0.56
12:AM:34:VAL:HG12	12:AM:36:GLY:H	1.71	0.56
15:AP:27:LYS:C	15:AP:29:ARG:H	2.09	0.56
15:AP:98:VAL:O	15:AP:98:VAL:HG12	2.06	0.56
1:AA:1358:U:H5''	16:AQ:34:TYR:HA	1.88	0.56
18:AS:21:VAL:HG13	18:AS:36:ILE:CD1	2.33	0.56
20:AU:74:ARG:NH1	20:AU:81:PHE:HB3	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:11:VAL:CG1	21:AV:38:SER:HB2	2.35	0.56
51:B4:4:HIS:O	51:B4:4:HIS:CD2	2.58	0.56
54:B7:5:LYS:CB	54:B7:60:LEU:HA	2.34	0.56
24:BA:1248:G:OP1	41:BT:2:PRO:N	2.39	0.56
24:BA:1287:A:O4'	38:BQ:104:ARG:HD2	2.05	0.56
24:BA:1615:C:N3	43:BV:87:PRO:HG3	2.21	0.56
24:BA:1703:G:H2'	24:BA:1704:G:O4'	2.05	0.56
24:BA:1771:C:C2	24:BA:1772:G:C8	2.93	0.56
24:BA:184:C:H2'	24:BA:185:U:C6	2.41	0.56
3:AD:70:G:H4'	24:BA:1893:C:O2'	2.06	0.56
24:BA:1935:G:N2	24:BA:1962:C:C2'	2.69	0.56
24:BA:1785:A:OP1	24:BA:1982:C:H4'	2.06	0.56
24:BA:2243:U:C2	24:BA:2244:U:C6	2.94	0.56
24:BA:2281:C:O2'	24:BA:2282:G:H5'	2.06	0.56
24:BA:2380:C:C2'	24:BA:2381:C:H5'	2.36	0.56
24:BA:243:U:H2'	24:BA:244:A:O5'	2.05	0.56
24:BA:2450:A:H2'	24:BA:2451:A:C5'	2.34	0.56
24:BA:2544:G:H2'	24:BA:2545:G:H8	1.71	0.56
24:BA:2544:G:H2'	24:BA:2545:G:O4'	2.05	0.56
24:BA:2624:G:C3'	24:BA:2625:G:H5''	2.35	0.56
24:BA:2682:U:O2	28:BE:12:THR:CG2	2.53	0.56
24:BA:404:C:OP2	24:BA:405:U:OP1	2.24	0.56
24:BA:40:C:H2'	24:BA:41:C:H6	1.70	0.56
24:BA:583:G:O2'	24:BA:584:C:H5'	2.05	0.56
24:BA:755:C:H2'	24:BA:756:C:C6	2.40	0.56
24:BA:775:G:N2	24:BA:787:U:O2'	2.39	0.56
24:BA:687:C:C5	24:BA:788:A:C8	2.94	0.56
24:BA:814:C:H2'	24:BA:815:C:H6	1.70	0.56
24:BA:819:A:C2	24:BA:820:A:C5	2.94	0.56
27:BD:137:PRO:HG2	27:BD:140:THR:OG1	2.06	0.56
27:BD:252:TRP:C	27:BD:253:GLN:HG3	2.26	0.56
27:BD:270:ILE:O	27:BD:271:ILE:O	2.23	0.56
27:BD:89:SER:HG	27:BD:159:ALA:N	2.03	0.56
27:BD:76:PRO:HD2	27:BD:98:VAL:HG21	1.87	0.56
28:BE:69:LYS:O	28:BE:70:ALA:O	2.23	0.56
29:BF:15:SER:OG	29:BF:16:GLY:N	2.35	0.56
29:BF:201:VAL:CG1	29:BF:205:ARG:NH2	2.68	0.56
30:BG:131:TYR:CE2	30:BG:132:ASN:HA	2.41	0.56
30:BG:36:LYS:HB2	30:BG:95:ARG:CG	2.36	0.56
24:BA:2745:C:O2'	31:BH:143:GLN:CG	2.53	0.56
32:BK:9:LEU:HB2	32:BK:13:GLY:C	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:2:LYS:HB3	34:BM:2:LYS:HZ3	1.71	0.56
34:BM:13:TRP:NE1	34:BM:51:PHE:CB	2.67	0.56
35:BN:15:GLY:O	35:BN:47:ILE:CA	2.53	0.56
36:BO:76:LYS:C	36:BO:115:LEU:HD13	2.26	0.56
36:BO:123:LEU:CD1	36:BO:130:PHE:CG	2.87	0.56
36:BO:56:SER:HB3	54:B7:13:ARG:NE	2.19	0.56
24:BA:627:A:H5'	36:BO:75:ILE:HG13	1.85	0.56
37:BP:12:GLN:O	37:BP:12:GLN:NE2	2.38	0.56
38:BQ:28:LEU:O	38:BQ:29:LEU:C	2.44	0.56
39:BR:24:LEU:HB2	39:BR:41:ASP:HB3	1.88	0.56
39:BR:67:ARG:NE	39:BR:71:ARG:HG2	2.20	0.56
40:BS:30:VAL:C	40:BS:32:TYR:CZ	2.79	0.56
40:BS:34:VAL:CG2	40:BS:36:GLU:HB2	2.36	0.56
35:BN:122:LEU:HA	40:BS:71:GLY:CA	2.36	0.56
42:BU:19:LYS:O	42:BU:21:ARG:HG2	2.05	0.56
42:BU:38:LEU:H	42:BU:38:LEU:CD2	2.12	0.56
24:BA:993:G:H1'	42:BU:91:TYR:HE2	1.70	0.56
43:BV:64:MET:CG	43:BV:109:GLU:HB3	2.35	0.56
44:BW:30:VAL:O	44:BW:77:LYS:HD3	2.05	0.56
45:BX:100:ALA:C	45:BX:101:LYS:HD2	2.26	0.56
45:BX:19:LYS:NZ	45:BX:39:VAL:O	2.38	0.56
46:BY:155:LEU:O	46:BY:156:LYS:CB	2.49	0.56
46:BY:3:TYR:HB3	46:BY:61:LEU:H	1.71	0.56
24:BA:2278:A:N6	47:BZ:14:ARG:HB2	2.21	0.56
47:BZ:26:TYR:CD1	47:BZ:29:GLN:OE1	2.59	0.56
47:BZ:68:GLU:HB2	47:BZ:80:HIS:C	2.24	0.56
3:AD:60:U:C3'	3:AD:60:U:C6	2.89	0.56
26:BC:123:VAL:CG1	26:BC:127:LEU:HD12	2.36	0.56
24:BA:718:A:C5'	24:BA:719:C:OP2	2.54	0.56
36:BO:148:LEU:HD23	36:BO:149:GLU:N	2.20	0.56
3:AD:20:U:O2	3:AD:20:U:H2'	2.04	0.56
1:AA:1159:U:O4	1:AA:1182:G:N3	2.39	0.56
1:AA:1242:C:C5'	23:AX:10:ARG:HH12	2.19	0.56
1:AA:1277:C:H2'	1:AA:1278:U:O4'	2.06	0.56
1:AA:1343:G:H2'	1:AA:1344:C:O4'	2.05	0.56
1:AA:1368:G:OP2	11:AL:112:LYS:O	2.23	0.56
1:AA:1405:G:H21	1:AA:1518:A:H1'	1.71	0.56
1:AA:309:G:O2'	1:AA:310:G:C5'	2.53	0.56
1:AA:563:A:O2'	1:AA:564:C:OP2	2.24	0.56
1:AA:571:U:C3'	1:AA:572:A:C5'	2.64	0.56
1:AA:583:A:H2'	1:AA:584:G:H8	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:585:G:HO2'	1:AA:586:C:H5'	1.70	0.56
1:AA:586:C:H2'	1:AA:587:G:O4'	2.04	0.56
1:AA:88:C:O2'	1:AA:89:U:O4'	2.23	0.56
1:AA:978:A:H3'	1:AA:978:A:C8	2.41	0.56
1:AA:981:U:H2'	1:AA:982:U:C5	2.41	0.56
2:AC:31:G:N2	2:AC:40:C:N3	2.53	0.56
2:AC:72:A:C2'	2:AC:73:A:C8	2.85	0.56
4:AE:160:ASP:O	4:AE:161:ALA:HB2	2.06	0.56
5:AF:196:LEU:HD23	5:AF:196:LEU:N	2.21	0.56
6:AG:159:ARG:O	6:AG:161:ASN:N	2.38	0.56
7:AH:50:GLU:HB2	7:AH:53:LEU:CG	2.35	0.56
7:AH:68:GLU:OE2	7:AH:69:VAL:N	2.39	0.56
8:AI:2:ARG:HD2	8:AI:69:GLU:HB3	1.86	0.56
9:AJ:97:GLN:O	9:AJ:98:SER:C	2.44	0.56
11:AL:28:VAL:HG11	11:AL:36:TYR:HB2	1.86	0.56
12:AM:46:ARG:HD3	12:AM:64:GLU:HG2	1.86	0.56
1:AA:551:U:O4'	14:AO:119:LYS:HE2	2.06	0.56
14:AO:34:ARG:HH21	14:AO:61:THR:HG21	1.70	0.56
14:AO:82:VAL:HG12	14:AO:83:VAL:N	2.21	0.56
16:AQ:24:CYS:HA	16:AQ:39:LEU:HA	1.86	0.56
18:AS:58:TYR:O	18:AS:61:SER:CB	2.54	0.56
19:AT:57:VAL:CG2	19:AT:58:GLU:N	2.69	0.56
1:AA:259:G:C5'	22:AW:83:ARG:HH22	2.18	0.56
48:B1:66:ASN:CG	48:B1:67:ALA:N	2.59	0.56
24:BA:1158:C:O2'	49:B2:32:GLN:NE2	2.39	0.56
50:B3:9:LEU:HD22	50:B3:11:PRO:HD2	1.87	0.56
50:B3:14:ILE:HG22	50:B3:37:SER:C	2.25	0.56
50:B3:56:VAL:O	50:B3:57:GLU:HG2	2.06	0.56
50:B3:5:ILE:O	50:B3:6:HIS:HB2	2.06	0.56
51:B4:47:PRO:C	51:B4:58:LEU:HG	2.27	0.56
24:BA:2016:U:H1'	51:B4:6:VAL:HG11	1.87	0.56
52:B5:25:LYS:HG3	54:B7:35:GLN:HG3	1.86	0.56
52:B5:16:CYS:HB2	52:B5:49:HIS:C	2.26	0.56
54:B7:6:THR:HG1	54:B7:8:LYS:HB2	1.70	0.56
54:B7:7:HIS:C	54:B7:11:LYS:HE3	2.26	0.56
55:B8:11:CYS:CA	55:B8:32:HIS:NE2	2.69	0.56
24:BA:1181:C:H2'	24:BA:1182:A:C8	2.41	0.56
24:BA:1199:U:C2	24:BA:1200:C:C6	2.94	0.56
24:BA:142:G:H2'	24:BA:143:C:H6	1.67	0.56
24:BA:1601:G:H2'	24:BA:1601:G:N3	2.19	0.56
24:BA:1669:A:H2'	24:BA:1670:C:C5'	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1842:G:H2'	24:BA:1843:C:C6	2.41	0.56
24:BA:1935:G:C3'	24:BA:1937:A:H2	2.18	0.56
24:BA:1969:A:C4'	24:BA:1970:A:H5'	2.26	0.56
24:BA:570:G:C5	24:BA:2030:A:N1	2.74	0.56
24:BA:2093:G:O4'	32:BK:29:TYR:CD2	2.58	0.56
24:BA:218:A:H2'	24:BA:219:G:C8	2.41	0.56
24:BA:2282:G:N2	24:BA:2427:C:N3	2.53	0.56
24:BA:2350:C:O2'	24:BA:2351:G:O5'	2.23	0.56
24:BA:1127:A:N6	24:BA:2518:A:H2	2.04	0.56
24:BA:2748:A:N1	24:BA:2757:A:N6	2.54	0.56
24:BA:36:G:H4'	24:BA:451:C:C2	2.40	0.56
24:BA:541:C:C2'	24:BA:542:C:C6	2.87	0.56
24:BA:574:C:H4'	24:BA:575:A:O5'	2.05	0.56
24:BA:587:C:C4	24:BA:671:C:C6	2.94	0.56
24:BA:604:G:N1	24:BA:605:C:N4	2.53	0.56
24:BA:61:G:C5'	48:B1:45:ILE:CD1	2.84	0.56
24:BA:60:G:O2'	24:BA:61:G:OP1	2.23	0.56
24:BA:627:A:C5	24:BA:637:A:C4	2.94	0.56
24:BA:699:A:C2'	24:BA:700:G:H5'	2.29	0.56
24:BA:746:A:C8	24:BA:2611:U:O3'	2.59	0.56
24:BA:943:U:C5'	24:BA:944:G:O6	2.54	0.56
24:BA:970:C:H2'	24:BA:971:C:C6	2.41	0.56
28:BE:119:ARG:HH11	28:BE:120:TRP:CB	2.19	0.56
29:BF:103:LYS:HB3	29:BF:107:LYS:CE	2.35	0.56
24:BA:616:A:H5'	29:BF:182:ASN:HD22	1.71	0.56
29:BF:41:LEU:HA	29:BF:44:ARG:NE	2.21	0.56
29:BF:69:HIS:C	29:BF:69:HIS:HD1	2.08	0.56
31:BH:104:GLU:C	31:BH:105:LEU:HD12	2.26	0.56
31:BH:28:GLY:HA3	31:BH:79:VAL:CB	2.25	0.56
31:BH:11:VAL:N	31:BH:50:VAL:HG22	2.21	0.56
33:BL:131:ALA:CB	33:BL:136:VAL:O	2.54	0.56
33:BL:40:ALA:HB2	33:BL:65:PHE:CZ	2.40	0.56
33:BL:55:VAL:HG13	33:BL:68:VAL:O	2.06	0.56
34:BM:69:GLN:HE22	34:BM:87:LEU:CD2	2.14	0.56
35:BN:6:THR:CA	35:BN:7:TYR:CD1	2.89	0.56
35:BN:97:ARG:CA	35:BN:97:ARG:NE	2.69	0.56
36:BO:73:GLY:H	36:BO:107:LYS:CE	2.18	0.56
36:BO:14:LYS:O	36:BO:17:LYS:HD2	2.05	0.56
36:BO:58:THR:HA	54:B7:13:ARG:CG	2.36	0.56
37:BP:22:LYS:HZ1	37:BP:101:ARG:NE	2.03	0.56
38:BQ:17:ARG:CZ	38:BQ:17:ARG:HB3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:57:ARG:HE	38:BQ:62:ALA:CB	2.19	0.56
38:BQ:96:ARG:CD	38:BQ:98:LEU:HD11	2.35	0.56
38:BQ:99:LYS:O	51:B4:44:THR:HG22	2.05	0.56
39:BR:71:ARG:HB3	39:BR:104:GLY:HA2	1.88	0.56
39:BR:78:LEU:HD13	39:BR:79:ALA:CA	2.34	0.56
41:BT:93:LYS:HB2	42:BU:10:LYS:CD	2.31	0.56
43:BV:27:LYS:HG2	43:BV:31:GLU:HB2	1.88	0.56
43:BV:43:GLY:HA2	43:BV:46:PHE:CD1	2.41	0.56
45:BX:19:LYS:HB3	45:BX:21:LYS:HG2	1.88	0.56
24:BA:332:A:H61	45:BX:68:HIS:CE1	2.23	0.56
45:BX:74:PRO:C	45:BX:76:CYS:H	2.07	0.56
32:BK:109:ILE:CG2	32:BK:113:ARG:CZ	2.82	0.56
32:BK:93:THR:O	32:BK:96:ASP:CB	2.53	0.56
26:BC:103:ILE:CG2	26:BC:108:MET:SD	2.94	0.56
26:BC:126:LYS:O	26:BC:130:ILE:CD1	2.53	0.56
26:BC:166:ASP:N	26:BC:170:ALA:O	2.33	0.56
26:BC:22:ILE:HG23	26:BC:189:ILE:CD1	2.36	0.56
26:BC:39:GLU:HG2	26:BC:41:VAL:HG22	1.88	0.56
24:BA:1581:G:H2'	24:BA:1582:C:C4'	2.36	0.56
27:BD:273:ARG:HE	27:BD:274:ARG:HA	1.69	0.56
45:BX:105:ALA:O	45:BX:107:ASP:N	2.38	0.56
1:AA:1128:C:C1'	1:AA:1146:A:H61	2.16	0.56
1:AA:1144:G:N2	1:AA:1146:A:N7	2.53	0.56
1:AA:1206:G:C2	1:AA:1207:G:C4	2.94	0.56
1:AA:1265:G:C6	1:AA:1271:G:C6	2.94	0.56
1:AA:1292:U:OP2	1:AA:1292:U:H6	1.89	0.56
1:AA:1251:A:C2	1:AA:1354:C:H1'	2.40	0.56
1:AA:167:G:O2'	1:AA:168:G:H5'	2.05	0.56
1:AA:308:C:C2'	1:AA:309:G:O5'	2.53	0.56
1:AA:485:G:HO2'	1:AA:486:U:H6	1.54	0.56
1:AA:539:A:H2'	1:AA:540:G:H8	1.71	0.56
1:AA:990:C:H2'	1:AA:991:U:O4'	2.05	0.56
1:AA:992:U:H4'	1:AA:993:G:O5'	2.06	0.56
2:AC:1:C:O2	2:AC:2:G:C8	2.59	0.56
4:AE:234:PRO:HB2	4:AE:238:LEU:CD2	2.36	0.56
4:AE:39:ILE:O	4:AE:41:ILE:CD1	2.54	0.56
4:AE:60:ASP:HB3	4:AE:64:ARG:NH2	2.21	0.56
6:AG:131:ARG:HD2	6:AG:132:ARG:N	2.21	0.56
6:AG:31:CYS:O	6:AG:33:MET:HE3	2.06	0.56
6:AG:58:LEU:HD13	6:AG:59:ARG:HD2	1.86	0.56
9:AJ:42:ILE:HD13	9:AJ:116:ALA:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:77:SER:C	9:AJ:156:TRP:HH2	2.09	0.56
10:AK:95:VAL:CG2	10:AK:133:LEU:HD21	2.31	0.56
10:AK:93:VAL:O	10:AK:133:LEU:HG	2.06	0.56
10:AK:33:GLU:CG	10:AK:59:LEU:HD11	2.35	0.56
14:AO:43:VAL:CG1	14:AO:44:THR:H	2.17	0.56
15:AP:58:GLU:HA	15:AP:61:GLU:HB2	1.88	0.56
15:AP:78:ILE:HA	15:AP:81:LEU:HD11	1.88	0.56
21:AV:55:LYS:HG2	21:AV:56:GLN:NE2	2.20	0.56
22:AW:63:ILE:HG23	22:AW:72:LEU:CD1	2.36	0.56
53:B6:43:THR:HG23	53:B6:46:VAL:CB	2.35	0.56
52:B5:25:LYS:CE	54:B7:35:GLN:HG3	2.29	0.56
24:BA:1130:U:HO2'	34:BM:79:PRO:HD3	1.70	0.56
24:BA:1152:C:C2'	24:BA:1153:C:H5'	2.35	0.56
24:BA:1213:A:O2'	24:BA:1239:G:O4'	2.20	0.56
24:BA:1276:A:O2'	24:BA:1277:G:H5'	2.06	0.56
24:BA:1305:C:O2'	24:BA:1306:C:H5'	2.06	0.56
24:BA:1408:C:C2	24:BA:1409:C:C5	2.94	0.56
24:BA:1419:A:C3'	24:BA:1420:U:O4'	2.54	0.56
24:BA:1478:G:N2	24:BA:1557:C:O2'	2.39	0.56
24:BA:1491:G:C5	24:BA:1492:G:H1'	2.40	0.56
24:BA:1476:C:N4	24:BA:1516:U:C2'	2.68	0.56
24:BA:1550:C:H2'	24:BA:1551:C:C6	2.41	0.56
24:BA:1562:A:H2'	24:BA:1563:G:H8	1.71	0.56
24:BA:1636:C:C1'	24:BA:1761:C:H1'	2.35	0.56
24:BA:1822:G:C2	24:BA:1823:G:C8	2.94	0.56
24:BA:1978:A:H2'	24:BA:1979:C:C6	2.41	0.56
24:BA:1980:G:C6	24:BA:1982:C:C4	2.94	0.56
24:BA:204:A:H4'	24:BA:205:G:C5'	2.35	0.56
24:BA:2078:C:H5'	24:BA:2434:A:H4'	1.86	0.56
24:BA:2450:A:H2'	24:BA:2451:A:O5'	2.05	0.56
24:BA:2455:G:H21	24:BA:2498:C:H42	1.53	0.56
24:BA:2447:G:N2	24:BA:2500:U:O4	2.38	0.56
24:BA:2504:U:H3'	24:BA:2504:U:H6	1.70	0.56
24:BA:2519:U:N1	24:BA:2542:A:N1	2.53	0.56
24:BA:260:G:C6	24:BA:261:G:N7	2.74	0.56
24:BA:2716:U:C2'	24:BA:2717:G:O5'	2.54	0.56
24:BA:2721:A:H2'	24:BA:2722:G:C8	2.41	0.56
24:BA:2721:A:O2'	24:BA:2874:C:H5'	2.06	0.56
24:BA:2811:G:C6	24:BA:2891:G:N2	2.74	0.56
24:BA:292:C:H2'	24:BA:293:U:O2	2.04	0.56
24:BA:364:C:C6	24:BA:364:C:OP2	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:387:U:O3'	50:B3:23:GLU:OE2	2.24	0.56
24:BA:480:A:H3'	24:BA:481:G:H5''	1.88	0.56
24:BA:485:C:C2	24:BA:496:G:N2	2.74	0.56
24:BA:556:G:C4	24:BA:557:U:C5	2.94	0.56
24:BA:557:U:H4'	34:BM:112:LEU:HD21	1.88	0.56
24:BA:573:G:H2'	24:BA:574:C:C5'	2.36	0.56
24:BA:574:C:HO2'	24:BA:575:A:P	2.22	0.56
24:BA:727:A:C2	27:BD:16:MET:HG3	2.41	0.56
24:BA:734:A:C2	24:BA:735:A:C4	2.94	0.56
24:BA:896:A:N1	24:BA:897:C:C5	2.74	0.56
24:BA:933:A:C4	24:BA:934:G:C8	2.94	0.56
24:BA:945:A:C2'	24:BA:946:G:O5'	2.53	0.56
25:BB:77:U:H2'	25:BB:78:A:C8	2.40	0.56
27:BD:117:VAL:HG11	27:BD:128:GLY:C	2.26	0.56
27:BD:262:ARG:C	27:BD:264:LYS:N	2.59	0.56
27:BD:40:THR:HG21	27:BD:43:ARG:NH2	2.21	0.56
28:BE:154:LYS:NZ	28:BE:156:MET:CE	2.68	0.56
28:BE:185:LYS:C	28:BE:185:LYS:HD3	2.26	0.56
28:BE:8:LYS:CE	28:BE:8:LYS:CA	2.77	0.56
29:BF:40:GLN:N	29:BF:184:TYR:OH	2.39	0.56
30:BG:30:GLU:HB3	30:BG:162:THR:CG2	2.36	0.56
31:BH:25:LYS:CD	31:BH:27:LYS:HD2	2.35	0.56
31:BH:35:VAL:CB	31:BH:72:ILE:HD13	2.19	0.56
32:BK:5:LEU:HB3	32:BK:8:PRO:CD	2.35	0.56
35:BN:52:VAL:O	35:BN:53:LYS:CG	2.41	0.56
35:BN:62:VAL:O	35:BN:82:ASN:O	2.24	0.56
35:BN:79:PHE:HZ	40:BS:103:ARG:CD	2.19	0.56
36:BO:76:LYS:O	36:BO:113:LYS:O	2.24	0.56
40:BS:27:THR:O	40:BS:28:VAL:O	2.23	0.56
40:BS:64:ARG:NH2	40:BS:77:PRO:HB2	2.20	0.56
41:BT:108:GLU:HG2	41:BT:109:LEU:H	1.67	0.56
41:BT:108:GLU:CA	41:BT:111:GLU:HG2	2.36	0.56
24:BA:1151:G:H4'	41:BT:81:HIS:NE2	2.21	0.56
42:BU:31:ALA:O	42:BU:33:VAL:HG23	2.06	0.56
43:BV:75:TYR:O	43:BV:104:THR:CG2	2.53	0.56
44:BW:23:GLU:OE2	44:BW:25:LYS:N	2.39	0.56
44:BW:36:LYS:HD2	44:BW:54:VAL:HG12	1.87	0.56
44:BW:89:ILE:O	44:BW:93:GLU:HG2	2.06	0.56
45:BX:49:VAL:CG2	45:BX:51:VAL:HB	2.36	0.56
46:BY:29:TYR:HD2	46:BY:89:PHE:CE2	2.23	0.56
47:BZ:21:LEU:HA	47:BZ:39:ARG:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:100:ALA:HA	32:BK:104:GLN:OE1	2.06	0.56
32:BK:113:ARG:O	32:BK:114:LEU:CB	2.54	0.56
3:AD:18:G:H21	3:AD:58:A:H5'	1.71	0.56
26:BC:22:ILE:HD11	26:BC:193:ILE:HD11	1.86	0.56
26:BC:41:VAL:HG12	26:BC:42:GLU:H	1.69	0.56
24:BA:1495:A:H2'	24:BA:1496:A:C8	2.41	0.56
2:AC:53:G:O2'	2:AC:54:U:H5'	2.06	0.56
1:AA:1192:C:H5	1:AA:1193:G:C8	2.21	0.56
1:AA:1206:G:C6	1:AA:1207:G:C5	2.94	0.56
1:AA:1261:A:H3'	1:AA:1262:C:C5	2.41	0.56
1:AA:1273:G:H2'	1:AA:1274:G:O4'	2.06	0.56
1:AA:1289:A:O2'	1:AA:1290:G:H5'	2.06	0.56
1:AA:1305:G:C2'	1:AA:1331:G:N2	2.66	0.56
1:AA:1406:U:C2	1:AA:1407:C:C5	2.93	0.56
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.41	0.56
1:AA:17:U:H5'	1:AA:1080:A:O2'	2.06	0.56
1:AA:244:U:C6	1:AA:894:G:C2	2.94	0.56
1:AA:300:A:H2'	1:AA:301:G:O4'	2.05	0.56
1:AA:325:A:H2'	1:AA:326:G:O5'	2.06	0.56
1:AA:357:G:O2'	1:AA:358:U:H5'	2.05	0.56
1:AA:363:A:OP2	14:AO:34:ARG:HB3	2.05	0.56
1:AA:687:A:C2	1:AA:704:A:C6	2.94	0.56
1:AA:714:G:O2'	1:AA:777:A:N6	2.39	0.56
1:AA:739:C:H2'	1:AA:740:U:C5'	2.36	0.56
1:AA:761:G:H5'	19:AT:102:GLY:C	2.26	0.56
1:AA:789:U:O2'	1:AA:791:G:N7	2.28	0.56
1:AA:922:G:N2	1:AA:923:A:H1'	2.21	0.56
1:AA:979:C:OP2	1:AA:980:C:C5	2.59	0.56
2:AC:16:C:H5'	2:AC:60:U:O2'	2.05	0.56
4:AE:67:THR:HB	4:AE:155:LEU:HD21	1.88	0.56
4:AE:184:VAL:O	4:AE:198:ASP:N	2.39	0.56
4:AE:80:ILE:HG21	4:AE:211:ILE:HG21	1.88	0.56
5:AF:116:VAL:HG11	5:AF:141:VAL:HG21	1.89	0.56
5:AF:29:TYR:CD2	5:AF:29:TYR:C	2.77	0.56
5:AF:35:GLU:HA	5:AF:38:ARG:CD	2.35	0.56
5:AF:63:ASN:O	5:AF:64:VAL:HB	2.06	0.56
6:AG:104:VAL:O	6:AG:107:ARG:N	2.39	0.56
6:AG:24:GLU:CD	6:AG:25:ARG:N	2.59	0.56
6:AG:90:GLY:CA	6:AG:200:GLU:OE2	2.53	0.56
9:AJ:63:LYS:N	9:AJ:63:LYS:HE2	2.21	0.56
10:AK:65:TYR:HD2	10:AK:78:GLN:HA	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:19:LEU:CD2	11:AL:59:PHE:HD2	2.16	0.56
11:AL:5:TYR:HD2	11:AL:6:GLY:N	2.03	0.56
16:AQ:16:PHE:O	16:AQ:17:LYS:C	2.44	0.56
17:AR:39:LEU:O	17:AR:42:HIS:HB3	2.06	0.56
21:AV:15:LEU:HG	21:AV:16:LEU:CD1	2.36	0.56
22:AW:36:LEU:CD2	22:AW:55:ILE:CG2	2.82	0.56
22:AW:64:ASP:HA	22:AW:67:ALA:HB2	1.87	0.56
48:B1:42:ASN:O	48:B1:45:ILE:HG23	2.06	0.56
49:B2:26:LEU:HG	49:B2:47:VAL:HG22	1.88	0.56
50:B3:59:PHE:CB	50:B3:62:ARG:NH2	2.68	0.56
51:B4:12:SER:OG	51:B4:13:LYS:HG2	2.05	0.56
24:BA:1003:G:N3	24:BA:1010:A:H2	2.04	0.56
24:BA:1014:U:C2'	24:BA:1015:G:C5'	2.81	0.56
24:BA:1023:U:OP2	24:BA:1025:G:C6	2.59	0.56
24:BA:1030:G:C5	24:BA:1125:G:N2	2.74	0.56
24:BA:1072:C:C4	24:BA:1092:C:N4	2.74	0.56
24:BA:1081:U:H3'	24:BA:1082:U:C5	2.40	0.56
24:BA:1024:G:N2	24:BA:1139:G:C6	2.74	0.56
24:BA:1177:A:C2	24:BA:1178:C:N3	2.74	0.56
24:BA:1174:A:N6	24:BA:1177:A:N3	2.51	0.56
24:BA:331:A:C5	24:BA:1209:G:C2	2.94	0.56
24:BA:1230:C:C2'	24:BA:1231:G:H5'	2.36	0.56
24:BA:1203:G:C5	24:BA:1241:A:N7	2.73	0.56
24:BA:1449(A):G:H2'	24:BA:1450:C:H6	1.71	0.56
24:BA:1500:G:O2'	24:BA:1501:C:H5'	2.06	0.56
24:BA:1503:U:H2'	24:BA:1504:C:H6	1.67	0.56
24:BA:1818:U:C5	27:BD:156:ALA:CB	2.89	0.56
24:BA:1917:U:H5	24:BA:1918:A:C4	2.24	0.56
24:BA:1926:U:HO2'	24:BA:1927:A:H8	1.52	0.56
24:BA:2014:A:H2	24:BA:2613:U:C4	2.24	0.56
24:BA:2024:G:C4	24:BA:2025:C:C6	2.94	0.56
24:BA:219:G:C5	24:BA:220:G:C8	2.94	0.56
24:BA:2236:C:C5'	24:BA:2236:C:H6	2.19	0.56
24:BA:2380:C:H2'	24:BA:2381:C:C5'	2.35	0.56
24:BA:2493:U:C5	24:BA:2494:G:C8	2.93	0.56
24:BA:2565:A:H5''	24:BA:2566:A:OP2	2.06	0.56
24:BA:2576:G:C5'	24:BA:2577:A:OP1	2.54	0.56
24:BA:2626:C:H6	24:BA:2626:C:H3'	1.67	0.56
24:BA:2758:A:H2'	24:BA:2759:G:C8	2.41	0.56
24:BA:2887:U:N3	24:BA:2888:C:C5	2.74	0.56
24:BA:302:C:C2	24:BA:303:U:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:80:G:H1'	24:BA:347:A:H61	1.70	0.56
24:BA:596:G:H1'	24:BA:662:G:H21	1.70	0.56
24:BA:598:G:H4'	36:BO:12:ALA:HB3	1.88	0.56
24:BA:631:A:H3'	24:BA:631:A:H8	1.70	0.56
24:BA:64:A:C2	24:BA:65:C:C6	2.93	0.56
24:BA:587:C:C5	24:BA:671:C:H1'	2.41	0.56
24:BA:672:C:H6	36:BO:38:GLN:OE1	1.87	0.56
24:BA:684:G:H3'	24:BA:684:G:C8	2.41	0.56
24:BA:705:A:C6	24:BA:727:A:C1'	2.88	0.56
17:AR:57:LEU:HD11	24:BA:715:G:N2	2.21	0.56
24:BA:851:U:H2'	24:BA:852:G:H8	1.71	0.56
25:BB:82:G:C2	25:BB:83:G:C8	2.94	0.56
25:BB:88:C:N4	25:BB:89:G:C2	2.74	0.56
27:BD:105:ILE:O	27:BD:105:ILE:HG23	2.06	0.56
27:BD:107:ALA:N	27:BD:108:PRO:CD	2.55	0.56
27:BD:142:VAL:CB	27:BD:191:ALA:HB1	2.36	0.56
28:BE:175:VAL:HG23	28:BE:175:VAL:O	2.06	0.56
28:BE:86:PRO:O	28:BE:87:GLU:HG2	2.06	0.56
24:BA:323:G:C2'	29:BF:170:LEU:HB2	2.19	0.56
30:BG:131:TYR:CD1	30:BG:158:ALA:HA	2.41	0.56
31:BH:117:PRO:HA	31:BH:121:ILE:CD1	2.32	0.56
34:BM:109:LYS:HE2	34:BM:111:PRO:HG2	1.88	0.56
24:BA:1244:G:H4'	36:BO:9:ASN:CB	2.36	0.56
37:BP:42:ILE:CG2	37:BP:95:ALA:HB3	2.36	0.56
24:BA:1287:A:N7	38:BQ:105:ARG:O	2.40	0.56
38:BQ:17:ARG:CZ	38:BQ:17:ARG:CB	2.83	0.56
38:BQ:51:LEU:HD11	38:BQ:70:LEU:CD1	2.32	0.56
39:BR:15:ARG:HA	39:BR:18:ILE:HB	1.87	0.56
40:BS:112:ARG:O	40:BS:115:ARG:HB2	2.05	0.56
42:BU:69:LYS:HA	42:BU:92:THR:HG21	1.86	0.56
24:BA:1322:A:H5'	43:BV:11:ARG:HH11	1.70	0.56
43:BV:59:VAL:CG2	43:BV:66:GLU:HA	2.35	0.56
46:BY:18:LEU:O	46:BY:19:ARG:C	2.43	0.56
46:BY:53:ILE:O	46:BY:54:HIS:CG	2.59	0.56
46:BY:53:ILE:CD1	46:BY:58:VAL:HG21	2.36	0.56
32:BK:87:LYS:HD2	32:BK:121:LYS:CG	2.36	0.56
24:BA:2168:G:N2	24:BA:2171:A:C8	2.70	0.56
26:BC:29:VAL:HA	26:BC:32:LEU:HD12	1.88	0.56
26:BC:6:ARG:CZ	26:BC:7:TYR:HA	2.36	0.56
1:AA:1039:C:N4	1:AA:1040:U:O4	2.39	0.56
1:AA:1159:U:H5	1:AA:1182:G:H1'	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1319:A:N6	1:AA:1323:G:N3	2.54	0.55
1:AA:1336:C:C4'	1:AA:1337:G:C2	2.87	0.55
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.05	0.55
1:AA:1524:C:H2'	1:AA:1525:G:O4'	2.05	0.55
1:AA:184:G:O4'	1:AA:224:C:H4'	2.05	0.55
1:AA:303:A:H2'	1:AA:304:U:O4'	2.06	0.55
1:AA:354:G:C2'	1:AA:355:C:O5'	2.54	0.55
1:AA:401:C:OP2	6:AG:73:ARG:NH1	2.38	0.55
1:AA:467:G:C2	1:AA:468:A:C5	2.93	0.55
1:AA:497:U:H2'	1:AA:497:U:O2	2.05	0.55
1:AA:51:A:O2'	1:AA:52:G:OP2	2.22	0.55
1:AA:820:U:O2'	1:AA:821:G:OP2	2.22	0.55
1:AA:19:C:O4'	1:AA:864:A:H1'	2.05	0.55
1:AA:900:A:C4	1:AA:901:A:N7	2.74	0.55
3:AD:69:C:O2'	3:AD:70:G:H5'	2.06	0.55
4:AE:102:LEU:CD2	4:AE:176:GLU:CB	2.84	0.55
4:AE:44:LEU:HB2	4:AE:45:GLN:OE1	2.06	0.55
4:AE:47:THR:HG23	4:AE:202:PRO:HG2	1.88	0.55
6:AG:177:ASP:OD1	6:AG:182:LYS:HG3	2.06	0.55
6:AG:68:TYR:O	6:AG:70:ILE:HG12	2.06	0.55
1:AA:7:G:H21	7:AH:121:LYS:CB	2.19	0.55
7:AH:147:ASP:O	7:AH:150:ARG:CB	2.52	0.55
7:AH:80:ILE:HD11	7:AH:91:LEU:HB3	1.86	0.55
7:AH:82:VAL:CG1	7:AH:134:ALA:HB1	2.37	0.55
9:AJ:111:ARG:HB3	9:AJ:112:PRO:HD2	1.87	0.55
1:AA:1373:G:H4'	9:AJ:36:LYS:NZ	2.21	0.55
9:AJ:86:GLN:HG3	9:AJ:148:ASN:ND2	2.21	0.55
10:AK:89:PRO:HA	10:AK:92:ARG:NE	2.20	0.55
11:AL:88:TYR:CD2	11:AL:89:ASN:ND2	2.74	0.55
12:AM:16:LEU:HD22	12:AM:16:LEU:N	2.21	0.55
12:AM:4:ILE:HD13	12:AM:98:ILE:CG2	2.35	0.55
1:AA:551:U:C5'	14:AO:119:LYS:NZ	2.68	0.55
15:AP:16:ASP:HB3	15:AP:30:ALA:HB1	1.88	0.55
18:AS:8:ARG:NH1	18:AS:11:SER:N	2.54	0.55
22:AW:12:ALA:H	22:AW:13:LEU:CD1	2.19	0.55
22:AW:44:ALA:HB3	22:AW:91:LEU:CD1	2.35	0.55
1:AA:186(A):C:O4'	22:AW:85:MET:SD	2.65	0.55
51:B4:48:GLU:HA	51:B4:58:LEU:CD1	2.36	0.55
54:B7:56:GLU:CD	54:B7:56:GLU:N	2.59	0.55
24:BA:1049:C:H5''	24:BA:1049:C:H6	1.71	0.55
24:BA:107:C:O2'	24:BA:108:U:C5'	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1138:G:O3'	34:BM:24:GLY:HA3	2.05	0.55
24:BA:814:C:C2'	24:BA:1224:G:H22	2.19	0.55
24:BA:1338:G:H2'	24:BA:1339:G:H5'	1.88	0.55
24:BA:1348:G:C6	24:BA:1349:A:C6	2.93	0.55
24:BA:1531:C:H2'	24:BA:1532:C:C6	2.41	0.55
24:BA:1542:G:H5'	24:BA:1542:G:C4	2.41	0.55
24:BA:1572:A:O2'	24:BA:1573:G:OP1	2.23	0.55
24:BA:1926:U:H2'	24:BA:1928:A:OP2	2.05	0.55
24:BA:1964:G:N1	24:BA:1967:C:N4	2.53	0.55
24:BA:2019:A:N1	24:BA:2020:A:C4	2.74	0.55
24:BA:2083:G:C2	24:BA:2084:C:C2	2.93	0.55
24:BA:2469:A:N6	24:BA:2481:G:H1'	2.21	0.55
24:BA:2515:C:OP2	24:BA:2515:C:C6	2.60	0.55
24:BA:2615:U:C2	51:B4:7:PRO:HA	2.41	0.55
24:BA:271(C):U:O2'	24:BA:271:G:H1'	2.06	0.55
24:BA:2792:G:C2	24:BA:2793:G:N7	2.75	0.55
24:BA:330:A:O2'	24:BA:1210:A:N6	2.39	0.55
24:BA:298:G:H1	24:BA:338:G:C4'	2.19	0.55
24:BA:402:A:N1	24:BA:403:U:C5	2.74	0.55
24:BA:475:U:H3	24:BA:479:A:N6	2.04	0.55
24:BA:534:U:O2'	41:BT:49:HIS:CD2	2.59	0.55
24:BA:570:G:C6	24:BA:2030:A:C2	2.93	0.55
24:BA:593:G:C6	24:BA:594:U:C4	2.95	0.55
24:BA:603:A:H2'	24:BA:604:G:C8	2.42	0.55
24:BA:625:G:C6	24:BA:626:U:C1'	2.90	0.55
24:BA:818:G:H2'	24:BA:819:A:H5''	1.87	0.55
24:BA:965:C:H1'	24:BA:2273:A:C2	2.41	0.55
24:BA:972:G:C6	24:BA:973:A:N7	2.74	0.55
27:BD:118:VAL:H	27:BD:129:ASN:CG	2.09	0.55
24:BA:2210:G:C4	27:BD:150:LYS:HA	2.39	0.55
27:BD:233:HIS:HD2	27:BD:252:TRP:HH2	1.53	0.55
27:BD:66:ASP:HB2	27:BD:103:ARG:HD3	1.88	0.55
28:BE:104:VAL:HG13	28:BE:197:ILE:O	2.04	0.55
28:BE:36:ARG:CD	28:BE:79:ARG:HH11	2.18	0.55
29:BF:109:GLY:O	29:BF:110:LEU:C	2.43	0.55
29:BF:185:ASP:HA	29:BF:188:ARG:CD	2.36	0.55
29:BF:74:ARG:O	29:BF:75:HIS:CD2	2.59	0.55
30:BG:79:ASN:ND2	30:BG:82:LEU:HD21	2.20	0.55
33:BL:54:PRO:CG	33:BL:72:PRO:HA	2.36	0.55
33:BL:72:PRO:HG2	33:BL:77:LEU:HB2	1.86	0.55
34:BM:35:ARG:N	34:BM:49:GLY:HA2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:45:ASN:O	34:BM:46:VAL:HB	2.06	0.55
34:BM:87:LEU:HA	34:BM:90:MET:CG	2.36	0.55
35:BN:108:GLU:OE1	35:BN:108:GLU:O	2.24	0.55
36:BO:74:GLU:N	36:BO:107:LYS:HE3	2.21	0.55
24:BA:636:G:O6	36:BO:111:ARG:NH1	2.39	0.55
36:BO:45:LEU:C	36:BO:46:LYS:HD2	2.26	0.55
36:BO:93:GLY:N	36:BO:112:LEU:CD1	2.65	0.55
37:BP:74:TYR:OH	37:BP:94:VAL:CG2	2.46	0.55
38:BQ:105:ARG:HG3	38:BQ:106:GLY:N	2.20	0.55
38:BQ:55:ALA:CB	38:BQ:79:LEU:HD21	2.36	0.55
39:BR:3:ARG:HA	39:BR:7:TYR:CD1	2.39	0.55
45:BX:47:LYS:CB	45:BX:56:PRO:HB2	2.36	0.55
45:BX:82:PRO:CG	45:BX:97:ARG:N	2.69	0.55
46:BY:18:LEU:O	46:BY:21:ALA:N	2.40	0.55
46:BY:39:VAL:HG12	46:BY:39:VAL:O	2.05	0.55
47:BZ:65:GLY:CA	47:BZ:82:ARG:O	2.53	0.55
47:BZ:76:GLY:CA	47:BZ:78:TYR:CE1	2.89	0.55
32:BK:79:ILE:N	32:BK:79:ILE:CD1	2.66	0.55
24:BA:2125:G:C2	24:BA:2173:A:N6	2.73	0.55
26:BC:156:ILE:HA	26:BC:160:ARG:CG	2.34	0.55
1:AA:1027:C:C4	1:AA:1028:C:C5	2.94	0.55
24:BA:2184:G:N3	24:BA:2184:G:H2'	2.20	0.55
24:BA:274:G:C3'	24:BA:274:G:N3	2.68	0.55
4:AE:124:SER:OG	4:AE:126:GLU:CD	2.44	0.55
1:AA:1128:C:C5	1:AA:1139:G:C6	2.94	0.55
1:AA:1316:G:C4	1:AA:1318:A:OP2	2.59	0.55
1:AA:1320:C:C6	21:AV:72:GLY:HA3	2.41	0.55
1:AA:1336:C:O2'	1:AA:1337:G:C5	2.54	0.55
1:AA:1361:G:C8	1:AA:1361:G:C3'	2.89	0.55
1:AA:1324:A:O4'	1:AA:1362:C:H4'	2.05	0.55
1:AA:1363:A:N3	1:AA:1365:G:C6	2.74	0.55
1:AA:1442:G:C6	1:AA:1446:A:N6	2.73	0.55
1:AA:1516:G:C2	1:AA:1518:A:OP2	2.59	0.55
1:AA:235:C:C2	1:AA:236:G:N7	2.74	0.55
1:AA:37:U:H2'	1:AA:38:G:H5'	1.88	0.55
1:AA:406:G:N2	1:AA:437:U:O2	2.39	0.55
2:AC:27:U:H2'	2:AC:28:C:C6	2.41	0.55
2:AC:71:C:N3	2:AC:72:A:C8	2.74	0.55
4:AE:149:LEU:C	4:AE:149:LEU:HD23	2.27	0.55
4:AE:35:GLU:O	4:AE:36:ARG:NE	2.39	0.55
4:AE:56:ARG:HD2	4:AE:56:ARG:C	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:8:VAL:C	6:AG:10:ARG:N	2.58	0.55
6:AG:143:GLY:HA2	6:AG:185:PHE:HB3	1.88	0.55
8:AI:1:MET:CE	8:AI:68:PRO:HG3	2.36	0.55
8:AI:24:GLU:O	8:AI:27:GLN:HB2	2.06	0.55
8:AI:52:ILE:CD1	8:AI:87:ARG:NH2	2.69	0.55
9:AJ:69:VAL:HG21	9:AJ:104:LEU:HD11	1.87	0.55
9:AJ:124:LEU:HD23	9:AJ:124:LEU:O	2.07	0.55
9:AJ:139:GLU:HA	9:AJ:142:GLU:HB2	1.88	0.55
7:AH:78:HIS:ND1	10:AK:107:LEU:CD1	2.67	0.55
10:AK:29:SER:CB	10:AK:32:LYS:NZ	2.68	0.55
10:AK:98:LYS:C	10:AK:98:LYS:NZ	2.60	0.55
11:AL:114:TYR:HB2	11:AL:116:LYS:NZ	2.21	0.55
11:AL:38:GLN:C	11:AL:40:LEU:N	2.59	0.55
11:AL:43:ALA:O	11:AL:45:ALA:N	2.38	0.55
1:AA:1151:A:N3	12:AM:39:PRO:HG3	2.21	0.55
1:AA:551:U:H5'	14:AO:119:LYS:HZ1	1.68	0.55
1:AA:585:G:C4'	14:AO:8:ASN:ND2	2.67	0.55
15:AP:108:ARG:HH12	15:AP:112:GLY:H	1.54	0.55
18:AS:20:VAL:HG12	18:AS:21:VAL:N	2.22	0.55
18:AS:73:LEU:CD1	18:AS:73:LEU:C	2.75	0.55
1:AA:761:G:H1'	19:AT:104:LYS:O	2.06	0.55
48:B1:25:ARG:HG3	48:B1:25:ARG:NH2	2.19	0.55
24:BA:989:G:P	49:B2:10:LYS:HE3	2.47	0.55
49:B2:6:VAL:CG1	49:B2:7:LYS:N	2.69	0.55
24:BA:125:G:C2'	53:B6:47:ARG:NH1	2.69	0.55
54:B7:29:LYS:C	54:B7:34:TRP:CZ2	2.80	0.55
36:BO:49:ARG:HG3	54:B7:52:LYS:HD3	1.89	0.55
54:B7:5:LYS:CG	54:B7:7:HIS:HD2	2.15	0.55
55:B8:11:CYS:H	55:B8:32:HIS:CD2	2.24	0.55
24:BA:1008:C:O2'	24:BA:1009:A:O5'	2.24	0.55
24:BA:1186:G:C8	24:BA:1187:G:N7	2.74	0.55
24:BA:1264:G:OP1	51:B4:10:LYS:NZ	2.37	0.55
24:BA:1299:G:O4'	24:BA:1301:A:N3	2.40	0.55
24:BA:1309:G:C2'	24:BA:1310:G:C5'	2.78	0.55
24:BA:1313:U:O2	24:BA:1314:C:C5	2.59	0.55
24:BA:1472:A:N7	24:BA:1474:C:C5	2.74	0.55
24:BA:1782:C:H41	24:BA:2587:A:N6	1.96	0.55
24:BA:184:C:O2'	24:BA:185:U:H5'	2.06	0.55
24:BA:1860:G:H2'	24:BA:1861:G:H8	1.71	0.55
24:BA:18:C:C4	24:BA:19:C:C5	2.95	0.55
24:BA:2010:G:H2'	24:BA:2011:U:C5'	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2091:U:C3'	24:BA:2092:U:H5'	2.37	0.55
24:BA:2260:C:O2'	24:BA:2261:C:H5'	2.06	0.55
24:BA:2424:C:C5'	24:BA:2425:A:H5'	2.36	0.55
24:BA:2633:G:C5'	24:BA:2812:G:H5'	2.35	0.55
24:BA:2815:C:O2'	24:BA:2816:C:C5'	2.53	0.55
24:BA:533:G:C2	24:BA:534:U:H1'	2.41	0.55
24:BA:637:A:C2	24:BA:651:G:H5''	2.40	0.55
24:BA:705:A:N6	24:BA:727:A:O4'	2.38	0.55
24:BA:880:G:C4	24:BA:881:G:H1'	2.41	0.55
24:BA:945:A:O2'	24:BA:946:G:P	2.64	0.55
24:BA:948:G:C6	24:BA:949:C:C4	2.94	0.55
24:BA:962:G:C3'	24:BA:963:U:H6	2.20	0.55
25:BB:61:G:C2	25:BB:62:C:N3	2.74	0.55
25:BB:6:C:C5'	25:BB:27:C:O2	2.54	0.55
27:BD:134:ARG:HG3	27:BD:187:GLY:O	2.06	0.55
27:BD:177:LEU:HD12	27:BD:177:LEU:C	2.25	0.55
27:BD:188:GLU:OE2	27:BD:188:GLU:N	2.38	0.55
24:BA:1825:A:OP1	27:BD:247:ALA:HB2	2.06	0.55
27:BD:29:PRO:CB	27:BD:83:GLU:HA	2.35	0.55
27:BD:9:TYR:N	27:BD:9:TYR:CD1	2.73	0.55
24:BA:2572:A:H62	28:BE:145:LYS:HG2	1.69	0.55
29:BF:32:LEU:HA	29:BF:35:GLU:OE1	2.06	0.55
30:BG:16:ARG:HH21	30:BG:16:ARG:HG3	1.71	0.55
31:BH:107:VAL:HG22	31:BH:152:ARG:CD	2.31	0.55
31:BH:7:LEU:H	31:BH:8:PRO:HD3	1.68	0.55
32:BK:38:LEU:CD1	32:BK:39:ALA:HB3	2.36	0.55
33:BL:115:LEU:CB	33:BL:118:THR:HG22	2.28	0.55
34:BM:109:LYS:CG	34:BM:112:LEU:H	2.20	0.55
34:BM:109:LYS:HG2	34:BM:112:LEU:H	1.71	0.55
34:BM:51:PHE:CD2	34:BM:119:ARG:HG2	2.40	0.55
34:BM:48:MET:HG2	34:BM:50:ASP:HB2	1.87	0.55
34:BM:74:ARG:HG2	34:BM:76:SER:CB	2.37	0.55
35:BN:37:ASP:N	35:BN:61:VAL:HB	2.21	0.55
35:BN:59:LYS:CD	35:BN:59:LYS:N	2.68	0.55
35:BN:68:GLU:HG3	35:BN:76:ALA:H	1.71	0.55
35:BN:99:PHE:HE2	35:BN:105:GLU:CD	2.09	0.55
37:BP:56:ARG:O	37:BP:57:HIS:C	2.44	0.55
37:BP:75:THR:C	37:BP:77:LYS:HD2	2.27	0.55
38:BQ:5:LYS:NZ	38:BQ:5:LYS:C	2.59	0.55
39:BR:18:ILE:HD13	39:BR:18:ILE:H	1.69	0.55
40:BS:55:ASN:CA	40:BS:62:THR:O	2.52	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:55:ARG:C	41:BT:58:ARG:HG2	2.26	0.55
42:BU:15:GLU:C	42:BU:100:ARG:HH22	2.09	0.55
42:BU:16:PRO:CD	42:BU:100:ARG:NH1	2.70	0.55
44:BW:65:ARG:HB3	44:BW:70:LEU:HD21	1.87	0.55
24:BA:86:C:P	45:BX:30:VAL:HG23	2.45	0.55
24:BA:896:A:OP1	46:BY:146:ILE:HG23	2.07	0.55
46:BY:4:ARG:HG3	46:BY:44:PHE:HE1	1.68	0.55
46:BY:2:GLU:C	46:BY:60:GLU:HA	2.26	0.55
32:BK:69:LYS:HZ2	32:BK:70:LYS:CG	2.20	0.55
32:BK:77:LEU:H	32:BK:77:LEU:HD23	1.68	0.55
24:BA:2121:G:H8	24:BA:2121:G:OP2	1.88	0.55
24:BA:2128:C:C2'	24:BA:2129:C:H5'	2.36	0.55
26:BC:103:ILE:HG21	26:BC:108:MET:SD	2.47	0.55
26:BC:75:LEU:HG	26:BC:77:ILE:HG12	1.88	0.55
1:AA:1025:U:OP1	1:AA:1025:U:H4'	2.06	0.55
1:AA:1171:G:HO2'	1:AA:1172:C:H6	1.53	0.55
4:AE:134:GLU:HB3	4:AE:138:LEU:HD11	1.88	0.55
27:BD:111:LEU:HD12	27:BD:115:GLN:NE2	2.22	0.55
6:AG:165:MET:HE3	6:AG:167:GLY:H	1.70	0.55
1:AA:1064:G:N3	1:AA:1066:C:C4	2.74	0.55
1:AA:132:C:C2	1:AA:231:G:N2	2.74	0.55
1:AA:279:A:H5''	1:AA:280:C:H3'	1.87	0.55
1:AA:280:C:C5'	1:AA:281:G:OP2	2.54	0.55
1:AA:378:G:H2'	1:AA:379:C:C6	2.41	0.55
1:AA:417:C:O2'	1:AA:418:C:H5'	2.06	0.55
1:AA:570:G:C6	1:AA:571:U:O4	2.59	0.55
1:AA:577:G:N2	1:AA:578:C:C2	2.75	0.55
1:AA:685:G:N2	1:AA:686:U:C4	2.74	0.55
1:AA:706:A:C2	1:AA:707:C:C6	2.94	0.55
1:AA:760:G:C2	19:AT:104:LYS:O	2.60	0.55
1:AA:775:G:C4	1:AA:776:G:N7	2.74	0.55
1:AA:80:G:H3'	1:AA:81:G:C8	2.39	0.55
1:AA:962:C:O2'	1:AA:1200:C:N4	2.40	0.55
2:AC:38:A:C2'	2:AC:39:C:H5'	2.35	0.55
4:AE:146:GLN:O	4:AE:147:LYS:C	2.44	0.55
4:AE:173:ALA:O	4:AE:174:VAL:C	2.44	0.55
5:AF:138:VAL:HG22	5:AF:151:VAL:CG2	2.36	0.55
5:AF:30:ARG:HH11	5:AF:31:HIS:N	2.05	0.55
6:AG:106:TYR:HD1	6:AG:106:TYR:C	2.09	0.55
6:AG:16:GLY:O	6:AG:18:LYS:N	2.39	0.55
7:AH:18:ARG:O	7:AH:25:ARG:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:55:VAL:HG12	7:AH:56:GLN:N	2.21	0.55
9:AJ:108:ALA:O	9:AJ:119:ARG:HD3	2.06	0.55
9:AJ:137:LYS:O	9:AJ:141:VAL:HG23	2.07	0.55
9:AJ:41:ARG:O	9:AJ:44:TYR:HB2	2.05	0.55
12:AM:48:THR:OG1	12:AM:62:HIS:HB3	2.06	0.55
12:AM:98:ILE:HG22	12:AM:99:LYS:N	2.21	0.55
14:AO:39:VAL:HG12	14:AO:41:ARG:H	1.71	0.55
1:AA:1329:A:C5'	15:AP:29:ARG:HE	2.16	0.55
15:AP:48:LEU:HD23	15:AP:49:THR:N	2.21	0.55
15:AP:77:ASN:HA	15:AP:80:ARG:HD3	1.87	0.55
15:AP:77:ASN:O	15:AP:80:ARG:NH1	2.33	0.55
17:AR:8:LYS:HE2	17:AR:12:ILE:CD1	2.36	0.55
18:AS:8:ARG:NH1	18:AS:11:SER:O	2.40	0.55
20:AU:41:LYS:O	20:AU:44:LEU:HD23	2.07	0.55
1:AA:191:G:HO2'	22:AW:102:GLY:HA2	1.70	0.55
22:AW:13:LEU:CD1	22:AW:17:ARG:NH2	2.69	0.55
22:AW:51:GLU:HA	22:AW:54:LYS:HE3	1.87	0.55
48:B1:4:GLN:HA	48:B1:7:GLU:OE1	2.06	0.55
49:B2:39:ASP:O	49:B2:44:ARG:NH1	2.40	0.55
49:B2:40:THR:CG2	49:B2:42:ALA:HB3	2.36	0.55
24:BA:2056:G:C2	51:B4:4:HIS:CD2	2.94	0.55
52:B5:29:ASN:O	52:B5:30:THR:O	2.24	0.55
52:B5:17:LYS:HZ2	52:B5:50:ARG:CB	2.19	0.55
53:B6:43:THR:C	53:B6:45:ALA:N	2.59	0.55
55:B8:19:ARG:CD	55:B8:22:ARG:HB2	2.34	0.55
24:BA:1184:G:O2'	24:BA:1185:C:H5'	2.06	0.55
24:BA:1189:A:H2'	24:BA:1190:G:H5'	1.88	0.55
24:BA:443:A:O4'	24:BA:1201:C:C4'	2.54	0.55
24:BA:1270:C:H5''	24:BA:1271:G:OP1	2.07	0.55
24:BA:1343:G:N2	24:BA:1405:U:N1	2.55	0.55
24:BA:1567:A:O2'	24:BA:1568:G:C6	2.57	0.55
24:BA:1568:G:OP2	27:BD:61:LEU:CD1	2.40	0.55
24:BA:49:A:C6	24:BA:177:G:C2	2.95	0.55
24:BA:1799:G:HO2'	24:BA:1800:C:C4'	2.20	0.55
24:BA:1820:U:H5	27:BD:159:ALA:O	1.89	0.55
24:BA:1862:G:N2	24:BA:1881:C:H1'	2.21	0.55
24:BA:1953:A:C8	24:BA:1953:A:C3'	2.87	0.55
24:BA:2000:G:C2	24:BA:2001:A:C8	2.94	0.55
24:BA:2412:A:C8	24:BA:2413:G:C8	2.95	0.55
24:BA:2563:U:H2'	24:BA:2565:A:OP2	2.05	0.55
24:BA:2595:G:N3	24:BA:2599:G:N1	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:262:A:H5''	24:BA:609(A):G:H5'	1.89	0.55
24:BA:2647:U:O2'	24:BA:2648:C:H5'	2.06	0.55
24:BA:2648:C:C2	24:BA:2649:U:C5	2.95	0.55
24:BA:2666:C:C3'	24:BA:2667:C:C5'	2.85	0.55
24:BA:2723:C:C4	24:BA:2724:C:C5	2.94	0.55
24:BA:430:G:H5''	24:BA:431:U:OP2	2.05	0.55
24:BA:552:G:C5	24:BA:553:U:C5	2.95	0.55
24:BA:731:C:OP2	24:BA:761:A:OP1	2.24	0.55
24:BA:786:C:HO2'	24:BA:787:U:H5'	1.65	0.55
24:BA:817:C:C2	24:BA:1191:G:N2	2.74	0.55
27:BD:108:PRO:C	27:BD:196:VAL:O	2.44	0.55
27:BD:120:GLY:N	27:BD:131:LEU:CD1	2.69	0.55
27:BD:176:ARG:HB2	27:BD:176:ARG:CZ	2.35	0.55
27:BD:5:LYS:HA	27:BD:28:GLU:HB2	1.89	0.55
28:BE:118:LYS:HB3	28:BE:118:LYS:HZ2	1.71	0.55
29:BF:122:LYS:HZ3	29:BF:122:LYS:HA	1.67	0.55
29:BF:4:VAL:HA	29:BF:20:LEU:CG	2.36	0.55
30:BG:66:GLN:OE1	30:BG:92:VAL:HG22	2.06	0.55
30:BG:93:THR:O	30:BG:93:THR:HG22	2.06	0.55
31:BH:25:LYS:HD3	31:BH:27:LYS:CD	2.36	0.55
34:BM:107:LEU:HD11	34:BM:113:GLY:O	2.06	0.55
34:BM:38:HIS:O	41:BT:71:GLN:NE2	2.40	0.55
35:BN:23:ARG:CD	35:BN:40:VAL:HG11	2.36	0.55
35:BN:80:ASP:CG	35:BN:82:ASN:HD21	2.10	0.55
37:BP:134:ARG:HH11	37:BP:136:ALA:H	1.54	0.55
37:BP:66:ILE:O	37:BP:67:ARG:CB	2.52	0.55
38:BQ:94:TYR:C	38:BQ:117:VAL:HG12	2.26	0.55
38:BQ:38:VAL:CG1	38:BQ:39:PRO:HD3	2.36	0.55
39:BR:15:ARG:CG	39:BR:15:ARG:NH2	2.65	0.55
40:BS:64:ARG:O	40:BS:65:LYS:C	2.43	0.55
40:BS:76:PHE:CE2	40:BS:78:LEU:HG	2.42	0.55
40:BS:63:VAL:CG1	40:BS:78:LEU:HB2	2.37	0.55
41:BT:11:ARG:CG	41:BT:12:ARG:N	2.68	0.55
24:BA:531:C:H42	41:BT:38:THR:HA	1.72	0.55
24:BA:445:C:H3'	41:BT:3:ARG:HE	1.71	0.55
24:BA:1152:C:O2'	41:BT:80:ILE:HD12	2.06	0.55
43:BV:10:VAL:O	43:BV:12:ILE:HD13	2.07	0.55
43:BV:33:ARG:NH1	43:BV:36:LEU:HB3	2.21	0.55
44:BW:66:LEU:HD11	44:BW:69:TYR:HB2	1.88	0.55
45:BX:11:ASP:O	45:BX:12:THR:OG1	2.22	0.55
45:BX:19:LYS:NZ	45:BX:39:VAL:HG12	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:50:ARG:CB	45:BX:50:ARG:HH21	2.16	0.55
45:BX:12:THR:HG1	45:BX:72:VAL:HA	1.71	0.55
37:BP:136:ALA:CB	46:BY:76:LEU:HD13	2.33	0.55
47:BZ:44:ARG:HD3	47:BZ:45:PHE:CE2	2.40	0.55
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CZ	2.41	0.55
32:BK:93:THR:N	32:BK:96:ASP:OD2	2.23	0.55
26:BC:142:ALA:C	26:BC:144:THR:N	2.57	0.55
26:BC:81:GLU:HG3	26:BC:82:LYS:HG2	1.88	0.55
26:BC:73:ARG:NH1	26:BC:93:TYR:OH	2.39	0.55
24:BA:1497:U:N3	24:BA:1577:C:O5'	2.39	0.55
48:B1:65:GLN:H	48:B1:65:GLN:HE21	1.51	0.55
19:AT:26:GLN:HG2	19:AT:37:LYS:HB3	1.88	0.55
1:AA:1072:G:C4	1:AA:1104:G:N2	2.75	0.55
1:AA:1148:U:O2	1:AA:1149:C:O4'	2.25	0.55
1:AA:1429:C:H2'	1:AA:1430:C:C5	2.42	0.55
1:AA:274:A:HO2'	1:AA:275:G:C1'	2.18	0.55
1:AA:62:U:O2'	1:AA:379:C:H1'	2.05	0.55
1:AA:802:A:H2'	1:AA:803:G:O4'	2.06	0.55
1:AA:922:G:O2'	1:AA:923:A:H5'	2.06	0.55
1:AA:938:A:C2'	1:AA:939:G:H5'	2.37	0.55
1:AA:961:U:C5	1:AA:983:A:C6	2.95	0.55
1:AA:981:U:H6	1:AA:981:U:H3'	1.71	0.55
4:AE:153:ARG:O	4:AE:153:ARG:CZ	2.54	0.55
4:AE:27:LYS:HE2	4:AE:27:LYS:HA	1.88	0.55
4:AE:39:ILE:HG23	4:AE:41:ILE:HD11	1.88	0.55
1:AA:1057:G:H4'	5:AF:197:GLY:N	2.21	0.55
5:AF:34:LEU:O	5:AF:38:ARG:HD3	2.06	0.55
5:AF:95:THR:HB	5:AF:97:LYS:HE2	1.87	0.55
6:AG:121:VAL:HG22	6:AG:126:ILE:HD11	1.87	0.55
6:AG:191:ARG:HD3	6:AG:192:GLU:N	2.21	0.55
6:AG:200:GLU:O	6:AG:203:VAL:N	2.40	0.55
7:AH:135:THR:O	7:AH:136:MET:C	2.44	0.55
7:AH:144:THR:HG22	7:AH:145:LYS:N	2.21	0.55
7:AH:76:ILE:CG2	7:AH:77:PRO:HD2	2.36	0.55
8:AI:31:GLU:N	8:AI:35:ALA:HB3	2.21	0.55
9:AJ:22:LEU:HD13	9:AJ:97:GLN:NE2	2.21	0.55
10:AK:114:THR:C	10:AK:116:LYS:H	2.09	0.55
10:AK:85:ARG:HD2	10:AK:134:ILE:O	2.07	0.55
10:AK:63:LEU:CD1	10:AK:63:LEU:H	1.91	0.55
11:AL:54:ASP:O	11:AL:55:ALA:CB	2.54	0.55
11:AL:4:TYR:CE2	11:AL:88:TYR:HA	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1280:A:C4	12:AM:41:PRO:HG3	2.41	0.55
12:AM:60:ARG:H	12:AM:60:ARG:HD3	1.72	0.55
13:AN:57:THR:C	13:AN:59:TYR:N	2.59	0.55
14:AO:78:GLN:O	14:AO:80:HIS:N	2.40	0.55
15:AP:48:LEU:HD11	15:AP:56:LEU:HD12	1.87	0.55
16:AQ:55:GLY:O	16:AQ:56:VAL:C	2.45	0.55
17:AR:67:LEU:O	17:AR:70:LEU:HB3	2.05	0.55
18:AS:4:ILE:HG22	18:AS:21:VAL:HG13	1.88	0.55
18:AS:39:TYR:CE1	18:AS:41:PRO:HG3	2.40	0.55
18:AS:57:ARG:CA	18:AS:60:LEU:HD12	2.22	0.55
8:AI:50:TYR:OH	20:AU:77:GLY:CA	2.53	0.55
24:BA:94:G:N2	48:B1:42:ASN:ND2	2.46	0.55
24:BA:74:A:N1	48:B1:45:ILE:HD11	2.21	0.55
54:B7:26:LYS:O	54:B7:27:THR:CG2	2.55	0.55
24:BA:2419:U:O4	54:B7:31:HIS:CE1	2.59	0.55
36:BO:49:ARG:NH2	54:B7:55:ALA:CB	2.70	0.55
55:B8:20:HIS:C	55:B8:22:ARG:N	2.57	0.55
24:BA:1186:G:H8	24:BA:1187:G:N7	2.04	0.55
24:BA:1268:A:H2'	24:BA:1269:A:O4'	2.07	0.55
24:BA:1380:G:C6	24:BA:1381:G:N7	2.74	0.55
24:BA:1472:A:N7	24:BA:1474:C:N4	2.54	0.55
24:BA:150:C:O2	24:BA:151:C:C5	2.59	0.55
24:BA:1682:G:OP2	24:BA:1699:G:N2	2.36	0.55
24:BA:1684:C:H2'	24:BA:1685:C:C5	2.39	0.55
24:BA:1823:G:N1	24:BA:1824:G:C8	2.75	0.55
24:BA:1982:C:C4	24:BA:1983:C:N4	2.75	0.55
24:BA:2018:G:OP2	24:BA:2018:G:H8	1.90	0.55
24:BA:2024:G:H2'	24:BA:2025:C:H6	1.70	0.55
24:BA:2093:G:H1'	24:BA:2198:A:C2	2.40	0.55
24:BA:225:A:C6	24:BA:226:G:C5	2.95	0.55
24:BA:2322:A:C5	24:BA:2323:G:C8	2.95	0.55
24:BA:2397:G:H2'	24:BA:2398:U:O4'	2.06	0.55
24:BA:2423:U:O4'	24:BA:2425:A:N7	2.40	0.55
24:BA:2455:G:N2	24:BA:2498:C:H42	2.04	0.55
24:BA:2524:G:C6	24:BA:2525:G:C4	2.95	0.55
24:BA:255:A:C8	24:BA:256:A:N7	2.75	0.55
24:BA:2579:C:H3'	24:BA:2580:U:H6	1.70	0.55
24:BA:260:G:O4'	24:BA:621:A:H1'	2.06	0.55
24:BA:2742:C:H5''	55:B8:35:ARG:CZ	2.37	0.55
24:BA:2839:G:C5	24:BA:2840:C:C5	2.95	0.55
24:BA:300:A:C1'	24:BA:318:C:HO2'	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:365:C:O5'	24:BA:365:C:H6	1.88	0.55
24:BA:234:C:N4	24:BA:430:G:H22	2.02	0.55
24:BA:469:G:C2	53:B6:40:TRP:CZ2	2.91	0.55
24:BA:482:A:C2'	24:BA:483:A:OP2	2.54	0.55
24:BA:575:A:H2'	24:BA:576:U:O4'	2.05	0.55
24:BA:633:A:H3'	24:BA:634:C:O4'	2.06	0.55
24:BA:924:C:H2'	24:BA:925:C:H6	1.70	0.55
24:BA:930:U:O2'	24:BA:931:G:O5'	2.24	0.55
24:BA:958:U:C2'	24:BA:959:A:OP2	2.54	0.55
24:BA:1820:U:C5	27:BD:159:ALA:C	2.69	0.55
27:BD:18:VAL:O	27:BD:18:VAL:HG12	2.05	0.55
27:BD:212:SER:O	27:BD:214:TRP:N	2.39	0.55
28:BE:102:VAL:HG23	28:BE:103:ASP:N	2.21	0.55
28:BE:131:ALA:HB1	28:BE:134:ILE:HD11	1.88	0.55
28:BE:47:VAL:HG22	28:BE:79:ARG:CB	2.35	0.55
28:BE:7:VAL:O	28:BE:193:GLY:N	2.40	0.55
29:BF:146:ALA:C	29:BF:148:LEU:HD22	2.27	0.55
30:BG:148:MET:CG	30:BG:151:ALA:HB2	2.36	0.55
31:BH:167:GLU:O	31:BH:169:VAL:N	2.39	0.55
31:BH:35:VAL:CB	31:BH:72:ILE:HG23	2.36	0.55
24:BA:2748:A:O2'	31:BH:63:SER:O	2.24	0.55
24:BA:2093:G:C1'	32:BK:29:TYR:HD2	2.19	0.55
34:BM:12:ARG:NH1	34:BM:12:ARG:CB	2.70	0.55
35:BN:70:LYS:CG	35:BN:107:ARG:HH12	2.19	0.55
35:BN:68:GLU:HG2	35:BN:76:ALA:H	1.71	0.55
35:BN:87:ILE:HG22	35:BN:89:ASN:HD21	1.71	0.55
24:BA:587:C:N4	36:BO:30:THR:OG1	2.40	0.55
24:BA:2415:G:H5''	36:BO:61:ARG:HD2	1.88	0.55
36:BO:81:GLN:OE1	36:BO:86:LYS:HG3	2.05	0.55
37:BP:134:ARG:O	37:BP:135:ASP:CG	2.45	0.55
37:BP:44:ALA:CB	37:BP:70:PRO:HB3	2.36	0.55
38:BQ:34:ILE:O	38:BQ:113:LEU:CD2	2.54	0.55
35:BN:76:ALA:CA	40:BS:77:PRO:HD2	2.32	0.55
40:BS:23:ARG:NH2	40:BS:89:VAL:CA	2.70	0.55
41:BT:14:HIS:CG	41:BT:36:ARG:HH22	2.24	0.55
41:BT:79:PHE:CE1	41:BT:83:LEU:HD13	2.41	0.55
42:BU:74:LYS:O	42:BU:75:PHE:CD2	2.59	0.55
42:BU:83:ARG:HD3	42:BU:83:ARG:C	2.27	0.55
43:BV:33:ARG:HH12	43:BV:37:ARG:CB	2.19	0.55
43:BV:74:ALA:HB1	43:BV:105:VAL:CA	2.26	0.55
44:BW:63:LYS:HE2	44:BW:65:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:75:ILE:CG2	45:BX:100:ALA:HB1	2.36	0.55
46:BY:98:MET:CE	46:BY:100:VAL:HG13	2.36	0.55
47:BZ:44:ARG:HH21	47:BZ:77:ARG:CZ	2.19	0.55
26:BC:108:MET:SD	26:BC:131:LEU:HD21	2.46	0.55
26:BC:190:ARG:HA	26:BC:193:ILE:HG13	1.89	0.55
1:AA:340:U:C2	1:AA:341:C:C5	2.93	0.55
1:AA:962:C:C1'	1:AA:1201:A:N1	2.62	0.55
1:AA:1257:U:C2'	1:AA:1258:G:OP2	2.55	0.55
1:AA:1454:G:C4	1:AA:1455:G:C8	2.95	0.55
1:AA:1461:G:O2'	1:AA:1462:G:H5'	2.07	0.55
1:AA:1522:U:O2'	1:AA:1523:G:H5'	2.06	0.55
1:AA:22:G:H2'	1:AA:23:C:C1'	2.36	0.55
1:AA:246:A:H1'	1:AA:247:G:H1'	1.88	0.55
1:AA:432:A:H3'	1:AA:432:A:C8	2.42	0.55
1:AA:578:C:H6	1:AA:578:C:H5''	1.72	0.55
1:AA:597:G:C5	1:AA:644:G:C2	2.94	0.55
1:AA:687:A:C8	1:AA:701:C:N4	2.74	0.55
1:AA:1229:A:O2'	2:AC:30:G:OP1	2.19	0.55
3:AD:34:G:N2	3:AD:35:A:O4'	2.40	0.55
4:AE:101:MET:HB2	4:AE:102:LEU:CD1	2.36	0.55
4:AE:175:ARG:HD3	4:AE:179:LYS:HZ1	1.70	0.55
5:AF:14:ILE:HD12	5:AF:179:ARG:HB2	1.89	0.55
5:AF:78:GLY:C	5:AF:80:GLY:H	2.10	0.55
6:AG:120:LEU:HG	6:AG:121:VAL:H	1.71	0.55
6:AG:57:ARG:HD2	6:AG:202:LEU:CD2	2.36	0.55
6:AG:58:LEU:HD21	6:AG:62:GLN:HG3	1.89	0.55
7:AH:7:GLU:O	7:AH:34:VAL:HA	2.06	0.55
7:AH:81:GLU:N	7:AH:81:GLU:CD	2.59	0.55
10:AK:26:VAL:HG13	10:AK:27:PRO:N	2.20	0.55
1:AA:1371:G:OP1	11:AL:12:GLU:HG2	2.06	0.55
13:AN:69:ALA:O	13:AN:72:ALA:HB3	2.06	0.55
15:AP:52:GLU:HA	15:AP:55:ARG:CG	2.36	0.55
16:AQ:24:CYS:CB	16:AQ:40:CYS:N	2.61	0.55
18:AS:6:LEU:HD22	18:AS:6:LEU:O	2.05	0.55
19:AT:10:VAL:HG11	19:AT:52:LYS:C	2.27	0.55
22:AW:42:GLN:HE21	22:AW:42:GLN:CA	2.19	0.55
22:AW:44:ALA:CA	22:AW:92:LEU:HD21	2.36	0.55
24:BA:988:A:H62	49:B2:13:ILE:CD1	2.18	0.55
50:B3:47:GLN:HA	50:B3:52:THR:HB	1.86	0.55
50:B3:5:ILE:HG22	50:B3:6:HIS:N	2.22	0.55
24:BA:770:G:H5'	53:B6:10:ARG:HH11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1021:A:H3'	24:BA:1021:A:C8	2.41	0.55
24:BA:111:A:H4'	48:B1:60:ASN:ND2	2.21	0.55
24:BA:1155:A:C2	24:BA:1157:G:H1'	2.41	0.55
24:BA:974:G:C4	24:BA:1186:G:C6	2.95	0.55
24:BA:118:A:C8	24:BA:119:A:C8	2.94	0.55
24:BA:1203:G:N3	24:BA:1241:A:C8	2.58	0.55
24:BA:1203:G:O6	24:BA:1240:U:C2'	2.54	0.55
24:BA:1284:A:C6	24:BA:1285:G:C2	2.94	0.55
24:BA:1317:A:C6	24:BA:1318:C:C4	2.95	0.55
24:BA:1555:G:C4	24:BA:1556:C:C5	2.95	0.55
24:BA:1662:C:C2	24:BA:1663:C:C4	2.95	0.55
24:BA:1771:C:H2'	24:BA:1772:G:C5'	2.22	0.55
24:BA:1954:G:H21	24:BA:1956:U:H1'	1.71	0.55
24:BA:1935:G:C2'	24:BA:1962:C:N4	2.69	0.55
24:BA:1970:A:O2'	24:BA:1971:A:OP2	2.24	0.55
24:BA:1996:C:H6	24:BA:1996:C:C4'	2.15	0.55
24:BA:2014:A:C2	24:BA:2613:U:N3	2.73	0.55
24:BA:2072:G:C6	24:BA:2073:C:C4	2.94	0.55
24:BA:213:A:C2'	24:BA:214:G:H5'	2.37	0.55
24:BA:216:A:C2	24:BA:217:G:C6	2.95	0.55
24:BA:228:A:H2'	24:BA:229:A:C5'	2.35	0.55
24:BA:2321:G:H21	24:BA:2322:A:C1'	2.20	0.55
24:BA:2345:G:C2	24:BA:2381:C:H2'	2.42	0.55
24:BA:239:U:H2'	24:BA:240:G:O4'	2.06	0.55
24:BA:2466:C:C5'	55:B8:5:ALA:HB3	2.36	0.55
24:BA:248:G:OP1	50:B3:28:LYS:CE	2.54	0.55
24:BA:2544:G:H1'	24:BA:2646:C:H4'	1.89	0.55
24:BA:2635:C:H2'	24:BA:2636:U:O5'	2.06	0.55
24:BA:270(G):C:C4	24:BA:270(H):C:N4	2.73	0.55
24:BA:270(A):A:N6	24:BA:270(X):G:H2'	2.08	0.55
24:BA:2747:G:C2	24:BA:2754:U:N3	2.74	0.55
24:BA:2798:C:C4	24:BA:2801:A:N6	2.70	0.55
24:BA:280:C:O4'	24:BA:280:C:OP2	2.24	0.55
24:BA:2839:G:C2	24:BA:2840:C:C2	2.94	0.55
24:BA:299:A:O2'	24:BA:319:C:C4'	2.49	0.55
24:BA:360:G:C2'	24:BA:361:G:C5'	2.80	0.55
24:BA:449:A:C2	24:BA:450:G:N7	2.74	0.55
24:BA:590:A:C2	24:BA:591:C:C2	2.94	0.55
24:BA:606:U:O2	24:BA:620:G:N2	2.39	0.55
24:BA:656:G:C2	24:BA:657:U:C2	2.94	0.55
24:BA:687:C:P	24:BA:688:U:OP2	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:713:G:C2'	24:BA:714:U:OP1	2.54	0.55
24:BA:735:A:O5'	24:BA:735:A:H8	1.89	0.55
24:BA:756:C:H2'	24:BA:757:U:C5'	2.36	0.55
24:BA:92:G:H2'	24:BA:93:C:C6	2.40	0.55
24:BA:955:C:C2'	24:BA:956:G:H5'	2.37	0.55
25:BB:99:A:C2'	25:BB:100:G:H5'	2.36	0.55
27:BD:128:GLY:H	27:BD:193:VAL:CB	2.20	0.55
28:BE:152:LYS:HG2	34:BM:78:TYR:HB2	1.88	0.55
28:BE:190:GLY:O	28:BE:191:PRO:O	2.25	0.55
28:BE:93:VAL:C	28:BE:95:ILE:H	2.05	0.55
28:BE:91:VAL:H	28:BE:95:ILE:HD11	1.72	0.55
29:BF:46:ARG:HH11	29:BF:47:GLY:H	1.55	0.55
29:BF:56:GLU:C	29:BF:58:ALA:N	2.58	0.55
30:BG:59:GLU:CB	30:BG:152:LEU:HD22	2.36	0.55
30:BG:163:ALA:CB	30:BG:169:ALA:HA	2.36	0.55
30:BG:173:LEU:HG	30:BG:173:LEU:O	2.06	0.55
30:BG:33:ARG:NH2	30:BG:33:ARG:O	2.40	0.55
30:BG:38:VAL:HG12	30:BG:93:THR:HG23	1.88	0.55
31:BH:104:GLU:O	31:BH:113:VAL:CG1	2.55	0.55
31:BH:11:VAL:CG2	31:BH:17:VAL:HG11	2.34	0.55
32:BK:35:LEU:O	32:BK:36:ALA:HB2	2.06	0.55
24:BA:2566:A:H61	35:BN:28:SER:HB3	1.72	0.55
35:BN:2:ILE:CB	35:BN:32:TYR:HB3	2.36	0.55
35:BN:90:GLN:O	35:BN:91:LEU:O	2.25	0.55
37:BP:42:ILE:HD11	37:BP:46:GLN:CD	2.26	0.55
28:BE:111:ARG:O	38:BQ:4:LEU:HD21	2.07	0.55
39:BR:9:ARG:HH11	39:BR:9:ARG:CB	2.16	0.55
40:BS:53:ARG:NH2	40:BS:102:ILE:H	1.88	0.55
40:BS:28:VAL:HG12	40:BS:29:ARG:C	2.27	0.55
40:BS:30:VAL:CG2	40:BS:32:TYR:HE2	2.19	0.55
44:BW:61:GLY:O	44:BW:72:LYS:C	2.44	0.55
45:BX:76:CYS:CB	45:BX:100:ALA:HB3	2.30	0.55
46:BY:151:HIS:CE1	46:BY:170:THR:HG23	2.41	0.55
46:BY:28:MET:CE	46:BY:88:PHE:HB2	2.36	0.55
24:BA:2353:G:O2'	47:BZ:33:ALA:O	2.24	0.55
32:BK:125:GLU:C	32:BK:125:GLU:CD	2.65	0.55
32:BK:69:LYS:HD2	32:BK:70:LYS:CG	2.37	0.55
3:AD:18:G:C2	3:AD:19:G:H1'	2.42	0.55
24:BA:1579:A:H2'	24:BA:1580:A:C5'	2.37	0.55
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.37	0.55
1:AA:1145:C:O2'	1:AA:1146:A:H8	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1237:C:C4'	1:AA:1334:G:H21	2.19	0.55
1:AA:1443:G:OP1	1:AA:1446:A:OP1	2.24	0.55
1:AA:1431:C:H42	1:AA:1469:G:H1	1.53	0.55
1:AA:1514:C:C2	1:AA:1515:C:C5	2.94	0.55
1:AA:280:C:C4'	1:AA:281:G:OP2	2.55	0.55
1:AA:332:G:O2'	1:AA:333:G:C5'	2.43	0.55
1:AA:417:C:H2'	1:AA:418:C:H6	1.72	0.55
1:AA:422:C:OP2	1:AA:422:C:C6	2.60	0.55
1:AA:428:G:C2	1:AA:430:A:N6	2.74	0.55
1:AA:483:C:C6	1:AA:483:C:C3'	2.90	0.55
1:AA:503:C:O2	1:AA:510:A:C2	2.59	0.55
1:AA:551:U:H4'	14:AO:119:LYS:HZ3	1.72	0.55
1:AA:559:A:O2'	1:AA:560:U:P	2.64	0.55
1:AA:563:A:C2	1:AA:567:G:C5	2.94	0.55
1:AA:579:G:O4'	1:AA:728:A:H1'	2.05	0.55
1:AA:716:A:C2'	1:AA:717:C:H5'	2.36	0.55
1:AA:801:U:OP2	1:AA:801:U:H6	1.90	0.55
1:AA:812:C:O2'	1:AA:813:U:OP2	2.23	0.55
1:AA:889:A:H4'	1:AA:890:G:OP1	2.06	0.55
4:AE:165:VAL:CG2	4:AE:166:ASP:H	2.16	0.55
5:AF:145:GLY:O	5:AF:146:ALA:HB2	2.07	0.55
5:AF:29:TYR:CE2	5:AF:33:LEU:HD12	2.42	0.55
5:AF:34:LEU:HD23	5:AF:35:GLU:H	1.66	0.55
6:AG:61:LYS:CB	6:AG:203:VAL:HG13	2.37	0.55
6:AG:88:VAL:O	6:AG:89:THR:C	2.45	0.55
7:AH:92:LYS:HB3	7:AH:119:LEU:HD12	1.89	0.55
7:AH:81:GLU:HB3	7:AH:90:VAL:HG23	1.89	0.55
8:AI:5:GLU:HA	8:AI:64:GLN:HA	1.87	0.55
10:AK:14:ARG:HD2	10:AK:15:ASN:N	2.21	0.55
10:AK:34:GLU:O	10:AK:38:ILE:HG12	2.06	0.55
10:AK:92:ARG:HG2	10:AK:92:ARG:HH11	1.72	0.55
1:AA:1060:C:H4'	12:AM:52:GLY:CA	2.36	0.55
11:AL:114:TYR:HA	12:AM:60:ARG:HH22	1.71	0.55
14:AO:117:ARG:NH2	14:AO:124:LYS:HG2	2.21	0.55
14:AO:27:LEU:HG	14:AO:28:LYS:H	1.71	0.55
17:AR:85:LEU:HD12	17:AR:85:LEU:H	1.71	0.55
20:AU:25:THR:HG22	20:AU:42:ARG:CZ	2.36	0.55
21:AV:13:ASP:OD2	21:AV:17:GLU:HG2	2.06	0.55
21:AV:50:ALA:CB	21:AV:57:HIS:HB3	2.33	0.55
22:AW:41:ILE:O	22:AW:91:LEU:CD1	2.55	0.55
22:AW:66:ALA:CB	22:AW:72:LEU:HB2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:50:ARG:O	48:B1:54:ARG:HG3	2.06	0.55
48:B1:16:LEU:HD22	48:B1:58:VAL:HG23	1.89	0.55
49:B2:26:LEU:HB2	49:B2:28:LEU:HD21	1.89	0.55
50:B3:42:PHE:CB	50:B3:58:ARG:NH1	2.70	0.55
50:B3:5:ILE:HD13	50:B3:60:GLN:NE2	2.21	0.55
51:B4:33:CYS:SG	51:B4:34:PRO:HD2	2.47	0.55
51:B4:40:LYS:HE3	51:B4:44:THR:C	2.27	0.55
52:B5:51:GLU:CD	52:B5:52:VAL:N	2.60	0.55
24:BA:458:G:C3'	53:B6:39:ARG:HD2	2.36	0.55
52:B5:11:LEU:CD2	54:B7:35:GLN:NE2	2.68	0.55
24:BA:2419:U:P	54:B7:41:ILE:HD12	2.46	0.55
24:BA:1062:G:N2	33:BL:91:PRO:HG3	2.22	0.55
24:BA:1180:C:H3'	24:BA:1180:C:OP2	2.06	0.55
24:BA:120:U:C2	24:BA:149:A:C2	2.95	0.55
24:BA:1448:G:H2'	24:BA:1449:A:H8	1.71	0.55
24:BA:1514:U:O2'	24:BA:1515:C:OP2	2.21	0.55
24:BA:1625:C:C4	24:BA:1626:G:H8	2.25	0.55
24:BA:1657:C:P	28:BE:136:ARG:HH22	2.29	0.55
24:BA:1691:C:C2'	24:BA:1691:C:O2	2.53	0.55
24:BA:1725:G:N2	24:BA:1726:G:C8	2.75	0.55
24:BA:1731:G:N2	24:BA:1733:G:N2	2.54	0.55
24:BA:176:G:C2'	24:BA:177:G:O4'	2.48	0.55
24:BA:1784:A:C2'	24:BA:1785:A:C8	2.89	0.55
24:BA:1838:C:H2'	24:BA:1898:U:O4	2.05	0.55
24:BA:1982:C:H5''	24:BA:1983:C:OP2	2.06	0.55
24:BA:1991:U:H2'	24:BA:1992:G:OP2	2.07	0.55
24:BA:2015:A:H3'	24:BA:2016:U:C5	2.42	0.55
24:BA:2040:C:C2	24:BA:2041:U:C6	2.95	0.55
24:BA:210:C:O2'	24:BA:211:A:H5'	2.07	0.55
24:BA:2207:C:C3'	24:BA:2208:U:H5''	2.33	0.55
24:BA:2212:A:H2'	24:BA:2213:U:C5	2.42	0.55
24:BA:2224:G:C5'	27:BD:262:ARG:NH2	2.70	0.55
24:BA:2298:A:C2	24:BA:2299:G:H1'	2.41	0.55
24:BA:2353:G:C5	24:BA:2365:G:N2	2.74	0.55
24:BA:2393:A:OP2	54:B7:32:LEU:HD11	2.07	0.55
24:BA:2506:U:HO2'	24:BA:2507:C:H5'	1.70	0.55
24:BA:2525:G:N3	24:BA:2525:G:H2'	2.20	0.55
24:BA:2659:G:H1'	24:BA:2663:G:H1	1.70	0.55
24:BA:2681:C:OP2	28:BE:109:LYS:NZ	2.33	0.55
24:BA:2698:U:C4	24:BA:2699:C:N4	2.73	0.55
24:BA:365:C:O5'	24:BA:365:C:C6	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:488:G:H1'	24:BA:492:A:H62	1.70	0.55
24:BA:672:C:H2'	24:BA:673:C:C5	2.40	0.55
24:BA:715:G:C8	24:BA:715:G:C3'	2.82	0.55
27:BD:142:VAL:HG23	27:BD:163:ALA:CB	2.36	0.55
27:BD:205:VAL:O	27:BD:206:LEU:O	2.24	0.55
27:BD:212:SER:O	27:BD:213:ARG:C	2.43	0.55
27:BD:258:LYS:HE2	27:BD:264:LYS:HB2	1.89	0.55
27:BD:35:LYS:HB2	27:BD:36:PRO:CD	2.36	0.55
24:BA:692:C:O3'	27:BD:60:ARG:NH2	2.40	0.55
29:BF:18:ARG:HH11	29:BF:20:LEU:CD1	2.20	0.55
15:AP:7:VAL:H	30:BG:114:ILE:HD13	1.71	0.55
30:BG:37:VAL:O	30:BG:99:MET:SD	2.65	0.55
31:BH:107:VAL:CG1	31:BH:152:ARG:HG2	2.34	0.55
31:BH:128:PRO:HA	31:BH:131:VAL:CG2	2.36	0.55
34:BM:136:GLU:O	34:BM:137:LYS:CG	2.51	0.55
35:BN:12:ASP:N	35:BN:12:ASP:OD1	2.39	0.55
36:BO:112:LEU:O	36:BO:114:ILE:HD12	2.07	0.55
36:BO:121:LYS:HD3	36:BO:133:SER:OG	2.06	0.55
39:BR:103:GLU:HA	39:BR:106:ARG:CB	2.35	0.55
39:BR:49:VAL:CG1	39:BR:76:LYS:NZ	2.65	0.55
40:BS:27:THR:CG2	40:BS:52:ILE:O	2.54	0.55
41:BT:84:LYS:NZ	41:BT:90:VAL:HG11	2.22	0.55
42:BU:19:LYS:CG	42:BU:21:ARG:HH12	2.19	0.55
42:BU:78:LYS:HD3	42:BU:78:LYS:C	2.25	0.55
42:BU:62:LEU:HD13	42:BU:98:GLU:CA	2.37	0.55
43:BV:21:VAL:HA	43:BV:24:ILE:HG13	1.88	0.55
43:BV:65:LEU:O	43:BV:66:GLU:C	2.44	0.55
24:BA:1598:C:C5'	44:BW:36:LYS:HB3	2.22	0.55
45:BX:75:ILE:O	45:BX:100:ALA:HB2	2.06	0.55
46:BY:39:VAL:HG12	46:BY:41:LEU:CD2	2.37	0.55
46:BY:48:PHE:HZ	46:BY:86:VAL:HG11	1.69	0.55
3:AD:58:A:C2	3:AD:61:C:C6	2.94	0.55
24:BA:2129:C:O2'	24:BA:2130:U:C5'	2.54	0.55
26:BC:133:PRO:C	26:BC:135:GLY:N	2.59	0.55
26:BC:223:ARG:HB2	26:BC:223:ARG:NH1	2.21	0.55
26:BC:89:ALA:HB1	26:BC:154:ARG:CB	2.37	0.55
24:BA:1497:U:O4	24:BA:1498:C:H5	1.90	0.55
1:AA:1148:U:O2	1:AA:1149:C:C6	2.59	0.55
1:AA:1196:U:H5'	1:AA:1197:G:H5'	1.88	0.55
1:AA:1301:U:H3	1:AA:1303:C:H1'	1.72	0.55
1:AA:1323:G:H5''	1:AA:1362(A):C:N3	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1344:C:H5'	11:AL:120:ARG:O	2.07	0.55
1:AA:533:A:N7	1:AA:536:C:N4	2.54	0.55
1:AA:556:C:H2'	1:AA:557:G:O4'	2.07	0.55
1:AA:73:G:H2'	1:AA:74:C:C6	2.41	0.55
1:AA:762:C:H2'	1:AA:763:G:H8	1.71	0.55
1:AA:842:C:H4'	1:AA:848:C:C4	2.42	0.55
2:AC:34:C:C3'	2:AC:35:A:C5'	2.80	0.55
4:AE:118:LEU:HD11	4:AE:141:GLU:CD	2.27	0.55
4:AE:76:GLN:O	4:AE:77:ALA:CB	2.54	0.55
5:AF:142:MET:HA	5:AF:146:ALA:CB	2.37	0.55
6:AG:70:ILE:HD12	6:AG:100:ARG:NH2	2.22	0.55
6:AG:106:TYR:C	6:AG:106:TYR:CD1	2.79	0.55
6:AG:128:VAL:O	6:AG:130:GLY:O	2.24	0.55
9:AJ:111:ARG:HB2	9:AJ:119:ARG:CG	2.36	0.55
9:AJ:21:VAL:HG23	9:AJ:22:LEU:H	1.72	0.55
1:AA:1374:A:H4'	9:AJ:28:ASN:OD1	2.07	0.55
10:AK:116:LYS:HG2	10:AK:129:VAL:HG21	1.89	0.55
10:AK:9:MET:CG	10:AK:26:VAL:HG11	2.37	0.55
12:AM:17:ASP:O	12:AM:21:GLN:HB3	2.06	0.55
13:AN:84:VAL:O	13:AN:84:VAL:HG23	2.05	0.55
14:AO:61:THR:O	14:AO:62:SER:CB	2.55	0.55
15:AP:38:GLY:O	15:AP:39:ILE:HG23	2.06	0.55
16:AQ:48:ALA:O	16:AQ:51:GLY:N	2.39	0.55
17:AR:9:GLN:O	17:AR:12:ILE:N	2.40	0.55
18:AS:6:LEU:CA	18:AS:18:ARG:O	2.55	0.55
49:B2:6:VAL:CB	49:B2:35:ARG:NE	2.61	0.55
54:B7:54:GLU:CA	54:B7:57:ARG:HB3	2.37	0.55
55:B8:17:ILE:HD12	55:B8:26:ILE:CG1	2.37	0.55
24:BA:1015:G:O2'	24:BA:1016:G:H5'	2.07	0.55
24:BA:1044:G:N1	24:BA:1112:G:O2'	2.36	0.55
24:BA:974:G:HO2'	24:BA:1186:G:H1'	1.70	0.55
24:BA:1205:U:O2	24:BA:1240:U:O4	2.24	0.55
24:BA:1222:C:N4	24:BA:1227:A:H62	1.88	0.55
24:BA:1423:G:C2	24:BA:1424:G:C8	2.95	0.55
24:BA:1515:C:H2'	24:BA:1516:U:OP1	2.07	0.55
24:BA:1562:A:O2'	24:BA:1563:G:H5'	2.06	0.55
24:BA:1748:G:C2	24:BA:1749:A:C4	2.94	0.55
24:BA:752:A:N7	24:BA:1781:C:O4'	2.40	0.55
24:BA:1778:U:C4	24:BA:1785:A:C6	2.95	0.55
24:BA:190:A:N7	24:BA:207:A:C6	2.75	0.55
24:BA:1917:U:C5	24:BA:1918:A:C4	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1978:A:H2'	24:BA:1979:C:O4'	2.07	0.55
24:BA:2072:G:O6	24:BA:2438:U:C4	2.60	0.55
24:BA:2360:A:C8	24:BA:2361:A:C8	2.94	0.55
24:BA:2404:C:C6	24:BA:2414:G:N2	2.74	0.55
24:BA:2422:A:C5'	24:BA:2423:U:OP1	2.54	0.55
24:BA:945:A:C6	24:BA:2448:A:H2	2.24	0.55
24:BA:957:A:N1	24:BA:2459:A:C5'	2.70	0.55
24:BA:2526:G:O2'	55:B8:33:LYS:HG3	2.06	0.55
24:BA:2532:G:O2'	24:BA:2533:A:H5'	2.07	0.55
24:BA:2639:A:C4	24:BA:2778:A:N1	2.74	0.55
24:BA:107:C:H4'	24:BA:293:U:O2	2.06	0.55
24:BA:294:A:N1	24:BA:346:A:C2	2.75	0.55
24:BA:424:G:H2'	24:BA:425:G:H8	1.72	0.55
24:BA:627:A:OP2	24:BA:637:A:N6	2.40	0.55
24:BA:681:G:C2	24:BA:682:G:C4	2.94	0.55
24:BA:71:A:C3'	24:BA:72:U:H5"	2.37	0.55
24:BA:829:A:H5'	24:BA:831:G:C8	2.42	0.55
24:BA:89:G:H3'	24:BA:90:U:H5"	1.89	0.55
24:BA:66:C:C4	24:BA:89:G:N1	2.75	0.55
25:BB:49:C:C2	25:BB:50:G:C8	2.94	0.55
25:BB:87:G:N2	25:BB:89:G:C8	2.75	0.55
27:BD:10:THR:HB	27:BD:11:PRO:CD	2.36	0.55
27:BD:181:GLU:HG3	27:BD:270:ILE:HB	1.88	0.55
28:BE:4:ILE:CD1	28:BE:76:ARG:HE	2.14	0.55
29:BF:9:ILE:HG21	29:BF:124:LEU:HB2	1.89	0.55
29:BF:8:GLN:HB3	29:BF:18:ARG:CG	2.36	0.55
29:BF:4:VAL:CA	29:BF:20:LEU:HG	2.37	0.55
30:BG:12:TYR:CD1	30:BG:12:TYR:C	2.80	0.55
30:BG:54:GLU:O	30:BG:57:ALA:CB	2.43	0.55
33:BL:128:ALA:HB1	33:BL:132:ARG:NH2	2.21	0.55
33:BL:27:LEU:CD1	33:BL:57:ILE:HD11	2.36	0.55
34:BM:96:GLU:CG	34:BM:97:ARG:N	2.70	0.55
35:BN:63:VAL:HG23	35:BN:81:ASP:HA	1.88	0.55
35:BN:3:GLN:HG2	35:BN:6:THR:CB	2.37	0.55
36:BO:123:LEU:HG	36:BO:134:ALA:CB	2.36	0.55
36:BO:23:PRO:HG2	36:BO:29:LYS:HA	1.89	0.55
37:BP:99:PRO:O	37:BP:99:PRO:CG	2.54	0.55
38:BQ:105:ARG:NE	38:BQ:105:ARG:CA	2.65	0.55
39:BR:97:ARG:HG3	39:BR:97:ARG:NH2	2.22	0.55
40:BS:28:VAL:HB	40:BS:30:VAL:HG12	1.87	0.55
24:BA:1152:C:O4'	41:BT:77:SER:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:66:ARG:C	42:BU:94:LEU:HD23	2.26	0.55
43:BV:33:ARG:HH12	43:BV:37:ARG:N	2.05	0.55
43:BV:86:LEU:CD2	43:BV:87:PRO:HD2	2.37	0.55
45:BX:82:PRO:HG3	45:BX:97:ARG:HB2	1.89	0.55
32:BK:77:LEU:CG	32:BK:141:LYS:O	2.50	0.55
3:AD:59:U:O2	3:AD:59:U:C2'	2.55	0.55
3:AD:65:U:C6	3:AD:65:U:O5'	2.59	0.55
24:BA:2110:G:H2'	24:BA:2120:G:O5'	2.06	0.55
24:BA:2175:C:O2	24:BA:2175:C:H2'	2.06	0.55
26:BC:22:ILE:HD13	26:BC:190:ARG:CZ	2.36	0.55
32:BK:58:LEU:HB3	32:BK:62:LYS:CE	2.36	0.55
5:AF:157:ILE:O	5:AF:157:ILE:HG22	2.05	0.55
24:BA:2186:G:C2	24:BA:2187:G:N7	2.74	0.55
11:AL:25:LYS:N	11:AL:25:LYS:HD2	2.20	0.55
39:BR:56:LEU:HD21	39:BR:59:LYS:CD	2.35	0.55
3:AD:12:U:O2'	3:AD:13:C:O5'	2.23	0.55
1:AA:1047:G:C2'	1:AA:1048:G:H5'	2.36	0.55
1:AA:1065:U:OP2	1:AA:1190:G:N2	2.39	0.55
1:AA:994:A:C8	1:AA:1216:G:H4'	2.41	0.55
1:AA:1234:C:C4'	1:AA:1364:U:H1'	2.37	0.55
1:AA:1316:G:O6	21:AV:6:LYS:CE	2.54	0.55
1:AA:1326:C:O2'	1:AA:1327:C:H5'	2.06	0.55
1:AA:1522:U:H2'	1:AA:1523:G:C8	2.37	0.55
1:AA:198:G:O2'	1:AA:199:G:C5'	2.52	0.55
1:AA:225:C:H2'	1:AA:226:G:O5'	2.07	0.55
1:AA:257:G:O2'	1:AA:258:G:H5'	2.06	0.55
1:AA:299:G:C2	1:AA:300:A:N1	2.75	0.55
1:AA:321:A:C2	1:AA:333:G:C2	2.95	0.55
1:AA:538:G:O2'	1:AA:539:A:H5'	2.07	0.55
1:AA:594:G:N7	1:AA:595:G:C2	2.75	0.55
1:AA:600:C:H5'	10:AK:129:VAL:HA	1.88	0.55
1:AA:640:A:C5	1:AA:641:U:C6	2.95	0.55
1:AA:643:C:C2	1:AA:644:G:C8	2.95	0.55
1:AA:688:G:N3	1:AA:704:A:C2	2.74	0.55
1:AA:81:G:C6	1:AA:82:U:O4	2.60	0.55
1:AA:881:G:O2'	1:AA:882:C:H5'	2.06	0.55
2:AC:63:G:H2'	2:AC:64:G:H8	1.72	0.55
5:AF:136:GLN:O	5:AF:139:GLN:HB2	2.07	0.55
5:AF:182:ILE:HG22	5:AF:202:ILE:O	2.06	0.55
5:AF:29:TYR:HD2	5:AF:29:TYR:C	2.11	0.55
5:AF:40:ARG:HA	5:AF:43:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:57:ILE:HG23	5:AF:64:VAL:HG13	1.88	0.55
6:AG:188:LEU:O	6:AG:189:PRO:O	2.25	0.55
7:AH:31:LEU:C	7:AH:31:LEU:HD23	2.27	0.55
10:AK:36:LEU:O	10:AK:39:LEU:HB2	2.07	0.55
13:AN:112:THR:O	13:AN:112:THR:HG22	2.07	0.55
14:AO:60:LEU:CD1	14:AO:64:TYR:HB3	2.36	0.55
15:AP:27:LYS:NZ	15:AP:31:LYS:NZ	2.55	0.55
16:AQ:4:LYS:O	16:AQ:6:LEU:N	2.40	0.55
19:AT:104:LYS:HD3	19:AT:105:ALA:H	1.71	0.55
19:AT:60:ILE:CD1	19:AT:61:GLU:O	2.55	0.55
19:AT:94:ASN:HB3	19:AT:104:LYS:HB2	1.87	0.55
13:AN:110:ASP:CB	20:AU:85:LEU:HB3	2.30	0.55
21:AV:30:LEU:HD12	21:AV:59:PRO:CB	2.37	0.55
22:AW:78:ALA:O	22:AW:79:ARG:C	2.46	0.55
50:B3:56:VAL:CB	50:B3:61:ARG:HG2	2.37	0.55
54:B7:52:LYS:NZ	54:B7:52:LYS:HB2	2.22	0.55
55:B8:17:ILE:HD12	55:B8:26:ILE:CB	2.36	0.55
55:B8:29:ASN:HB3	55:B8:32:HIS:ND1	2.21	0.55
55:B8:9:ARG:C	55:B8:10:ILE:CG1	2.74	0.55
24:BA:1203:G:O6	24:BA:1240:U:C6	2.60	0.55
24:BA:1455:G:OP2	24:BA:1456:G:OP2	2.25	0.55
24:BA:1593:G:H2'	24:BA:1594:G:H8	1.70	0.55
24:BA:1595:G:N2	24:BA:1596:A:H1'	2.21	0.55
24:BA:1791:A:C5'	27:BD:209:ALA:HA	2.36	0.55
24:BA:1815:A:C8	24:BA:1817:G:N3	2.75	0.55
24:BA:1980:G:O6	24:BA:1982:C:N4	2.40	0.55
24:BA:2018:G:C2'	24:BA:2019:A:O4'	2.54	0.55
24:BA:2051:A:H4'	28:BE:141:ILE:CG2	2.36	0.55
24:BA:2306:C:O4'	30:BG:154:GLY:HA3	2.07	0.55
24:BA:2469:A:C5	24:BA:2470:G:C8	2.94	0.55
24:BA:2485:G:C2'	24:BA:2486:G:H5'	2.36	0.55
24:BA:270(Q):C:C2	24:BA:270(R):G:C8	2.95	0.55
24:BA:2848:G:C8	40:BS:99:LEU:HG	2.42	0.55
24:BA:29:U:OP1	24:BA:583:G:C4'	2.31	0.55
24:BA:324:A:N7	24:BA:340:A:H1'	2.22	0.55
24:BA:376:C:H2'	24:BA:377:C:C6	2.42	0.55
24:BA:470:A:O2'	24:BA:471:A:O5'	2.25	0.55
24:BA:563:G:C2	24:BA:564:C:C4	2.95	0.55
24:BA:566:U:H3'	24:BA:567:A:C8	2.40	0.55
24:BA:66:C:H5'	24:BA:456:C:O2'	2.07	0.55
24:BA:796:C:H2'	24:BA:797:C:C6	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:802:A:H2'	24:BA:803:U:O5'	2.06	0.55
24:BA:819:A:H2'	24:BA:820:A:H8	1.67	0.55
24:BA:85:G:O3'	45:BX:30:VAL:HG23	2.07	0.55
24:BA:987:G:C4	24:BA:988:A:C8	2.94	0.55
24:BA:918:A:O2'	25:BB:97:G:C2	2.59	0.55
27:BD:236:GLY:O	27:BD:237:GLU:CG	2.51	0.55
28:BE:10:GLY:HA2	28:BE:23:VAL:HA	1.88	0.55
28:BE:20:ALA:C	28:BE:21:VAL:CG1	2.75	0.55
28:BE:7:VAL:CG2	28:BE:24:THR:O	2.54	0.55
29:BF:155:LEU:HD23	29:BF:174:VAL:CG2	2.37	0.55
30:BG:32:PRO:CG	30:BG:172:LEU:HD22	2.36	0.55
30:BG:32:PRO:O	30:BG:33:ARG:CB	2.51	0.55
30:BG:96:ARG:HD3	30:BG:97:ASP:OD1	2.06	0.55
31:BH:74:ASN:HB2	31:BH:138:LYS:CE	2.37	0.55
33:BL:128:ALA:HB1	33:BL:132:ARG:HH22	1.71	0.55
34:BM:107:LEU:HD13	34:BM:117:PHE:CE1	2.41	0.55
34:BM:89:LYS:O	34:BM:90:MET:C	2.45	0.55
24:BA:942:G:O3'	36:BO:32:THR:HB	2.07	0.55
36:BO:67:MET:SD	36:BO:68:GLN:O	2.65	0.55
38:BQ:11:ASN:O	38:BQ:12:ARG:HB2	2.07	0.55
38:BQ:34:ILE:HG22	38:BQ:35:THR:N	2.22	0.55
38:BQ:44:LEU:CD1	38:BQ:48:VAL:CG2	2.84	0.55
38:BQ:83:ILE:HG23	38:BQ:86:ARG:CZ	2.36	0.55
38:BQ:83:ILE:HG23	38:BQ:86:ARG:HH21	1.72	0.55
24:BA:2882:A:OP1	38:BQ:96:ARG:NE	2.40	0.55
39:BR:17:ARG:HH12	39:BR:27:SER:HA	1.71	0.55
35:BN:75:SER:O	40:BS:76:PHE:CD1	2.60	0.55
42:BU:1:MET:O	42:BU:3:ALA:N	2.40	0.55
42:BU:34:GLU:O	42:BU:35:LEU:HD12	2.07	0.55
43:BV:28:SER:C	43:BV:30:GLU:N	2.58	0.55
45:BX:82:PRO:HB3	45:BX:97:ARG:O	2.05	0.55
26:BC:39:GLU:HG3	26:BC:40:THR:N	2.22	0.55
26:BC:39:GLU:HG3	26:BC:41:VAL:N	2.21	0.55
26:BC:75:LEU:CD1	26:BC:99:ILE:HG21	2.37	0.55
1:AA:1035:A:H2'	1:AA:1036:G:C5'	2.34	0.55
1:AA:748:C:O2'	1:AA:749:C:C6	2.58	0.55
1:AA:1166:G:C2	1:AA:1171:G:O6	2.60	0.55
24:BA:2191:G:H21	24:BA:2192:G:H1'	1.72	0.55
1:AA:525:C:N4	1:AA:526:C:N4	2.54	0.55
1:AA:1157:A:N1	1:AA:1180:A:C4	2.75	0.55
1:AA:1261:A:H3'	1:AA:1262:C:C6	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1305:G:N3	1:AA:1331:G:N2	2.55	0.55
1:AA:1316:G:H5'	16:AQ:17:LYS:HZ3	1.70	0.55
1:AA:1464:G:O5'	40:BS:112:ARG:NH2	2.40	0.55
1:AA:145:G:C2'	1:AA:146:G:H5'	2.36	0.55
1:AA:236:G:C4	1:AA:237:C:C5	2.95	0.55
1:AA:22:G:C4	1:AA:23:C:C5	2.94	0.55
1:AA:589:C:OP1	10:AK:5:PRO:HG2	2.06	0.55
1:AA:646:U:H2'	1:AA:647:C:H6	1.71	0.55
1:AA:715:A:O2'	1:AA:716:A:H5'	2.06	0.55
1:AA:859:A:H2'	1:AA:860:A:C4'	2.36	0.55
1:AA:959:A:H1'	1:AA:985:C:H1'	1.89	0.55
1:AA:965:A:C8	1:AA:969:A:N3	2.75	0.55
2:AC:14:A:N7	2:AC:15:G:N7	2.54	0.55
2:AC:38:A:H2'	2:AC:39:C:C5'	2.36	0.55
4:AE:109:SER:O	4:AE:110:GLN:C	2.43	0.55
4:AE:150:SER:HA	4:AE:153:ARG:CG	2.37	0.55
4:AE:67:THR:HG21	4:AE:155:LEU:HD11	1.89	0.55
4:AE:163:PHE:HE1	4:AE:201:ILE:HD13	1.70	0.55
5:AF:42:LEU:HD23	5:AF:45:LYS:HD2	1.89	0.55
6:AG:144:ASP:C	6:AG:184:LYS:HD3	2.27	0.55
7:AH:9:LYS:CG	7:AH:112:LEU:HD23	2.35	0.55
9:AJ:139:GLU:HA	9:AJ:142:GLU:CG	2.37	0.55
9:AJ:69:VAL:HG11	9:AJ:104:LEU:HG	1.87	0.55
9:AJ:87:VAL:CG2	9:AJ:154:TYR:HB2	2.36	0.55
10:AK:104:ARG:NE	10:AK:138:TRP:CZ3	2.74	0.55
10:AK:63:LEU:HB2	10:AK:65:TYR:CE1	2.42	0.55
11:AL:9:ARG:CD	11:AL:14:VAL:HG22	2.26	0.55
14:AO:117:ARG:NH2	14:AO:124:LYS:CG	2.70	0.55
15:AP:11:ARG:O	15:AP:13:LYS:N	2.40	0.55
15:AP:3:ARG:HG3	15:AP:7:VAL:CG1	2.36	0.55
16:AQ:39:LEU:HB2	16:AQ:44:LEU:HB2	1.89	0.55
1:AA:1202:G:H1'	16:AQ:42:ILE:HD11	1.87	0.55
20:AU:34:TYR:HD1	20:AU:35:ARG:HG3	1.72	0.55
48:B1:20:VAL:HB	48:B1:55:LEU:HB3	1.88	0.55
24:BA:988:A:H3'	49:B2:10:LYS:HZ2	1.72	0.55
49:B2:40:THR:O	49:B2:44:ARG:HB3	2.07	0.55
24:BA:1266:G:OP1	51:B4:19:ARG:NH1	2.40	0.55
51:B4:4:HIS:CD2	51:B4:5:PRO:N	2.74	0.55
52:B5:40:CYS:HA	52:B5:46:HIS:O	2.07	0.55
52:B5:9:LEU:HD22	52:B5:27:LYS:CG	2.26	0.55
24:BA:1024:G:C5	24:BA:1025:G:H8	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1058:G:H2'	24:BA:1058:G:N3	2.22	0.55
24:BA:1101:U:H2'	24:BA:1102:C:O4'	2.06	0.55
24:BA:1221:C:O2	24:BA:1221:C:H2'	2.06	0.55
24:BA:813:U:O2'	24:BA:1225:C:H1'	2.06	0.55
24:BA:1471:A:N3	24:BA:1471:A:H2'	2.21	0.55
24:BA:1448:G:C4'	24:BA:1543:A:N1	2.70	0.55
24:BA:1646:C:H3'	24:BA:1647:G:H5'	1.86	0.55
24:BA:1780:A:O2'	24:BA:1781:C:OP1	2.23	0.55
24:BA:1910:G:C4	24:BA:1921:G:N2	2.75	0.55
24:BA:1935:G:C1'	24:BA:1964:G:N2	2.70	0.55
24:BA:1967:C:O2'	24:BA:1968:G:OP1	2.24	0.55
24:BA:195:A:H5''	24:BA:196:A:OP2	2.07	0.55
24:BA:1980:G:H3'	24:BA:1981:A:H5''	1.88	0.55
24:BA:1988:C:H2'	24:BA:1989:G:O5'	2.07	0.55
24:BA:1993:U:C6	24:BA:1993:U:O5'	2.60	0.55
24:BA:2020:A:OP2	41:BT:27:LEU:CD1	2.52	0.55
24:BA:2091:U:O4	24:BA:2092:U:C4	2.59	0.55
24:BA:2228:G:N7	24:BA:2229:C:C5	2.75	0.55
24:BA:2334:G:H21	39:BR:11:LYS:NZ	2.02	0.55
24:BA:2359:C:C4'	54:B7:52:LYS:HZ3	2.20	0.55
24:BA:2423:U:O2'	24:BA:2425:A:H3'	2.07	0.55
24:BA:241:A:C2'	24:BA:242:G:H4'	2.35	0.55
24:BA:2522:U:O2	24:BA:2765:A:N6	2.39	0.55
24:BA:252:G:O6	54:B7:8:LYS:NZ	2.40	0.55
24:BA:270(B):A:C4'	24:BA:270(C):C:C6	2.88	0.55
24:BA:2717:G:O2'	24:BA:2718:G:O5'	2.19	0.55
24:BA:2733:A:C8	24:BA:2734:A:C8	2.95	0.55
24:BA:2749:A:C4	24:BA:2750:A:N7	2.75	0.55
24:BA:331:A:O2'	24:BA:332:A:OP1	2.24	0.55
24:BA:499:U:C5	24:BA:500:G:N3	2.75	0.55
24:BA:527:C:OP1	24:BA:527:C:C4'	2.51	0.55
24:BA:563:G:C2	24:BA:578:A:N1	2.74	0.55
24:BA:605:C:H2'	24:BA:606:U:C6	2.41	0.55
24:BA:673:C:OP1	29:BF:81:PRO:HG3	2.06	0.55
24:BA:776:G:C4	24:BA:793:A:C6	2.94	0.55
24:BA:846:C:O2	24:BA:847:U:O4	2.24	0.55
24:BA:880:G:H2'	24:BA:881:G:C4'	2.33	0.55
24:BA:928:G:O2'	49:B2:40:THR:HG21	2.07	0.55
24:BA:93:C:H2'	24:BA:94:G:O4'	2.07	0.55
25:BB:40:U:O2'	25:BB:43:C:N4	2.38	0.55
25:BB:74:U:H2'	25:BB:75:G:C1'	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:134:ARG:C	27:BD:136:ILE:N	2.57	0.55
27:BD:89:SER:CB	27:BD:158:ALA:HB1	2.37	0.55
27:BD:177:LEU:O	27:BD:178:PRO:C	2.42	0.55
27:BD:214:TRP:O	27:BD:216:GLY:N	2.40	0.55
24:BA:1814:G:OP2	27:BD:43:ARG:HD2	2.06	0.55
28:BE:154:LYS:CD	28:BE:154:LYS:C	2.76	0.55
28:BE:195:LEU:C	28:BE:196:VAL:HG13	2.27	0.55
29:BF:152:GLU:O	29:BF:153:SER:CB	2.55	0.55
29:BF:155:LEU:HG	29:BF:174:VAL:HG21	1.88	0.55
33:BL:128:ALA:O	33:BL:132:ARG:HG3	2.06	0.55
24:BA:558:G:H5'	34:BM:112:LEU:HD12	1.88	0.55
34:BM:29:LYS:O	34:BM:30:ILE:C	2.45	0.55
34:BM:65:LYS:O	34:BM:66:LYS:O	2.25	0.55
35:BN:57:VAL:HG21	35:BN:85:VAL:HG13	1.89	0.55
24:BA:670:A:H2'	36:BO:41:ARG:HE	1.71	0.55
37:BP:99:PRO:HG2	37:BP:101:ARG:NE	2.22	0.55
38:BQ:58:GLY:O	38:BQ:59:ASP:HB3	2.06	0.55
38:BQ:8:ARG:CZ	38:BQ:10:LEU:HD11	2.36	0.55
38:BQ:93:GLY:C	38:BQ:95:THR:H	2.09	0.55
39:BR:64:GLU:O	39:BR:65:VAL:C	2.45	0.55
39:BR:74:ALA:CB	39:BR:108:GLY:CA	2.68	0.55
40:BS:48:ILE:HG23	40:BS:50:ILE:HD11	1.88	0.55
41:BT:55:ARG:NH1	41:BT:55:ARG:CG	2.60	0.55
41:BT:88:ILE:H	42:BU:52:VAL:CG2	2.20	0.55
43:BV:8:ARG:NE	43:BV:102:HIS:ND1	2.54	0.55
45:BX:33:LYS:O	45:BX:34:LYS:C	2.44	0.55
46:BY:127:LYS:HZ3	46:BY:165:VAL:CB	2.10	0.55
46:BY:67:LEU:HB3	46:BY:90:VAL:CG1	2.36	0.55
47:BZ:43:THR:O	47:BZ:43:THR:HG22	2.06	0.55
32:BK:68:LEU:HD13	32:BK:109:ILE:HD11	1.87	0.55
3:AD:50:G:N1	3:AD:65:U:N3	2.55	0.55
1:AA:1192:C:C3'	1:AA:1192:C:H6	1.90	0.55
1:AA:1055:A:N6	1:AA:1206:G:C5	2.75	0.55
1:AA:1227:A:O2'	15:AP:115:LYS:HG2	2.07	0.55
1:AA:1377:A:HO2'	1:AA:1378:C:P	2.29	0.55
1:AA:1500:A:OP1	1:AA:1508:G:OP1	2.24	0.55
1:AA:327:A:O3'	1:AA:328:C:O4'	2.24	0.55
1:AA:351:G:C8	1:AA:351:G:O5'	2.60	0.55
1:AA:482:A:N1	1:AA:483:C:C2	2.75	0.55
1:AA:507:C:P	1:AA:508:C:H3'	2.46	0.55
1:AA:611:A:H61	1:AA:629:G:H1	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:24:U:H2'	2:AC:25:C:H6	1.71	0.55
4:AE:142:LEU:O	4:AE:143:GLU:C	2.45	0.55
5:AF:14:ILE:CG2	5:AF:15:THR:HG23	2.29	0.55
5:AF:182:ILE:CG2	5:AF:202:ILE:O	2.55	0.55
6:AG:150:GLU:HA	6:AG:153:ARG:NH2	2.21	0.55
6:AG:25:ARG:C	6:AG:27:TYR:N	2.56	0.55
1:AA:8:A:C5'	7:AH:120:THR:O	2.52	0.55
7:AH:141:GLN:C	7:AH:142:LEU:HG	2.25	0.55
7:AH:57:LYS:CG	7:AH:61:TYR:HE2	2.20	0.55
8:AI:49:ALA:CB	20:AU:80:PRO:CD	2.78	0.55
8:AI:33:TYR:CB	8:AI:75:LEU:HD12	2.36	0.55
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CD1	2.37	0.55
9:AJ:95:ARG:O	9:AJ:97:GLN:N	2.40	0.55
10:AK:101:PRO:O	10:AK:102:ARG:HG3	2.07	0.55
10:AK:112:LEU:HD11	10:AK:131:GLY:N	2.22	0.55
11:AL:103:THR:CG2	11:AL:104:ARG:H	2.20	0.55
11:AL:40:LEU:O	11:AL:42:ARG:N	2.40	0.55
12:AM:4:ILE:HG12	12:AM:99:LYS:O	2.07	0.55
12:AM:50:ILE:N	16:AQ:41:ARG:HD2	2.21	0.55
12:AM:5:ARG:HD3	12:AM:6:ILE:N	2.21	0.55
15:AP:8:GLU:C	15:AP:10:PRO:CD	2.75	0.55
17:AR:36:ILE:HG22	17:AR:37:ASN:H	1.72	0.55
1:AA:189:U:H3	19:AT:63:ARG:CB	2.19	0.55
21:AV:51:VAL:HB	21:AV:58:VAL:CG2	2.37	0.55
22:AW:36:LEU:C	22:AW:36:LEU:CD2	2.75	0.55
48:B1:11:LEU:HD23	48:B1:15:GLU:HB3	1.88	0.55
48:B1:63:ARG:CB	48:B1:63:ARG:NH2	2.70	0.55
50:B3:68:ARG:CD	50:B3:68:ARG:N	2.60	0.55
51:B4:9:LYS:N	51:B4:9:LYS:CD	2.69	0.55
54:B7:25:MET:O	54:B7:27:THR:CG2	2.38	0.55
54:B7:36:LYS:HB3	54:B7:41:ILE:CD1	2.37	0.55
55:B8:14:CYS:SG	55:B8:32:HIS:CD2	3.00	0.55
24:BA:1090:U:O4	24:BA:1091:G:C5	2.59	0.55
24:BA:1087:G:C4	24:BA:1103:A:C2	2.95	0.55
24:BA:1143:A:C2	24:BA:1144:G:C4	2.95	0.55
24:BA:1237:A:O2'	24:BA:1238:G:O4'	2.24	0.55
24:BA:1257:C:C4	24:BA:1258:C:N4	2.75	0.55
24:BA:1379:A:H3'	24:BA:1379:A:N3	2.21	0.55
24:BA:1403:C:H2'	24:BA:1404:C:O5'	2.07	0.55
24:BA:1405:U:C2'	24:BA:1406:U:C6	2.81	0.55
24:BA:1473:G:C2'	24:BA:1474:C:O4'	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1448:G:C5'	24:BA:1543:A:N1	2.69	0.55
24:BA:1558:A:H2	24:BA:1560:G:N9	2.05	0.55
24:BA:1619:G:N1	24:BA:1620:G:C5	2.75	0.55
24:BA:1665:A:O4'	35:BN:1:MET:HG2	2.07	0.55
24:BA:1707:G:N3	24:BA:1756:G:N2	2.54	0.55
24:BA:1726:G:C2	24:BA:1727:U:C4	2.95	0.55
24:BA:1777:U:H6	24:BA:1777:U:O5'	1.90	0.55
24:BA:1814:G:H2'	24:BA:1815:A:N7	2.21	0.55
24:BA:1918:A:H5''	24:BA:1919:A:N6	2.22	0.55
24:BA:1937:A:O2'	24:BA:1938:A:OP1	2.24	0.55
24:BA:1952:A:H2	35:BN:22:ILE:CG2	2.20	0.55
24:BA:2004:G:H2'	24:BA:2005:A:C8	2.42	0.55
24:BA:2051:A:N3	24:BA:2614:A:N6	2.54	0.55
24:BA:2074:U:C2	24:BA:2075:U:C5	2.95	0.55
24:BA:2296:U:H3'	24:BA:2296:U:H6	1.72	0.55
24:BA:2478:A:N7	24:BA:2479:G:N7	2.54	0.55
24:BA:247:G:C2	24:BA:249:C:O2'	2.58	0.55
24:BA:2538:C:C2	24:BA:2539:C:C5	2.95	0.55
24:BA:2574:G:H2'	24:BA:2575:C:C6	2.42	0.55
24:BA:2691:C:O2'	24:BA:2692:C:H5'	2.07	0.55
24:BA:270(P):C:O2'	24:BA:270(Q):C:C5'	2.55	0.55
24:BA:2729:G:N3	28:BE:187:ALA:HB2	2.22	0.55
24:BA:2733:A:C2'	24:BA:2734:A:O5'	2.53	0.55
24:BA:2832:U:H1'	24:BA:2834:G:N3	2.22	0.55
24:BA:2836:U:H2'	24:BA:2837:G:C8	2.41	0.55
24:BA:2858:C:C5	24:BA:2859:G:C5	2.95	0.55
24:BA:458:G:N3	24:BA:469:G:C6	2.75	0.55
24:BA:457:A:C2	24:BA:470:A:C5'	2.89	0.55
24:BA:570:G:N1	24:BA:2498:C:H4'	2.22	0.55
24:BA:662:G:H4'	36:BO:18:ARG:H	1.69	0.55
24:BA:714:U:OP1	24:BA:714:U:O4'	2.25	0.55
24:BA:729:G:O6	24:BA:730:C:C4	2.60	0.55
24:BA:734:A:N3	24:BA:734:A:H2'	2.22	0.55
24:BA:873:G:H2'	24:BA:874:G:O4'	2.07	0.55
24:BA:900:A:H2'	24:BA:901:A:O4'	2.07	0.55
25:BB:77:U:H6	25:BB:77:U:H3'	1.72	0.55
27:BD:155:LEU:HB2	27:BD:157:ARG:NH2	2.22	0.55
27:BD:54:ARG:HG3	27:BD:221:VAL:HG23	1.88	0.55
27:BD:233:HIS:ND1	27:BD:233:HIS:N	2.54	0.55
27:BD:72:LYS:HZ2	27:BD:75:ILE:HD13	1.72	0.55
28:BE:176:ILE:HD12	28:BE:181:LEU:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:203:LYS:CD	28:BE:203:LYS:O	2.55	0.55
24:BA:2733:A:N3	28:BE:204:ALA:CB	2.70	0.55
28:BE:36:ARG:NH2	28:BE:41:LYS:NZ	2.54	0.55
29:BF:103:LYS:O	29:BF:104:LYS:C	2.45	0.55
30:BG:35:GLU:O	30:BG:36:LYS:O	2.25	0.55
30:BG:38:VAL:CG1	30:BG:93:THR:HG23	2.37	0.55
30:BG:43:LEU:CD1	30:BG:88:ILE:O	2.53	0.55
30:BG:8:LYS:O	30:BG:8:LYS:HD3	2.07	0.55
31:BH:85:LYS:HZ3	31:BH:141:VAL:C	2.10	0.55
32:BK:38:LEU:HD13	32:BK:39:ALA:HB3	1.87	0.55
32:BK:3:VAL:O	32:BK:5:LEU:HD21	2.07	0.55
33:BL:12:LEU:O	33:BL:53:VAL:HB	2.06	0.55
33:BL:77:LEU:HD13	33:BL:77:LEU:O	2.07	0.55
34:BM:100:GLU:HB3	34:BM:104:LYS:HE2	1.88	0.55
34:BM:112:LEU:HD22	34:BM:115:ARG:HH21	1.72	0.55
34:BM:120:LEU:C	34:BM:120:LEU:HD12	2.27	0.55
34:BM:97:ARG:HA	34:BM:100:GLU:HG3	1.88	0.55
35:BN:106:LEU:HD11	40:BS:38:ASN:ND2	2.21	0.55
35:BN:99:PHE:HD1	40:BS:74:ARG:CZ	2.20	0.55
36:BO:72:PRO:HB3	36:BO:111:ARG:HB3	1.87	0.55
24:BA:943:U:O5'	36:BO:32:THR:HB	2.07	0.55
37:BP:43:THR:HG1	37:BP:46:GLN:HB3	1.70	0.55
37:BP:8:LYS:HD3	37:BP:11:LYS:NZ	2.20	0.55
37:BP:90:VAL:O	37:BP:90:VAL:HG23	2.06	0.55
24:BA:2334:G:N2	39:BR:15:ARG:HH12	2.05	0.55
40:BS:73:GLU:OE2	40:BS:106:SER:HB3	2.06	0.55
40:BS:15:VAL:HG21	40:BS:59:THR:CG2	2.35	0.55
41:BT:88:ILE:C	42:BU:52:VAL:CA	2.69	0.55
42:BU:20:LEU:CB	42:BU:95:LEU:HD13	2.31	0.55
43:BV:36:LEU:CD2	43:BV:51:LEU:HD21	2.36	0.55
43:BV:66:GLU:OE1	43:BV:67:ASP:N	2.39	0.55
45:BX:53:PRO:C	45:BX:55:TYR:N	2.59	0.55
45:BX:43:ASN:HA	45:BX:61:ILE:HD13	1.89	0.55
46:BY:163:LEU:HD12	46:BY:163:LEU:N	2.17	0.55
46:BY:16:SER:OG	46:BY:17:ALA:N	2.40	0.55
24:BA:2353:G:O2'	47:BZ:34:GLY:HA3	2.07	0.55
47:BZ:69:PHE:HB3	47:BZ:71:ASP:OD1	2.06	0.55
2:AC:1:C:O2'	47:BZ:7:LEU:O	2.24	0.55
32:BK:81:VAL:HG23	32:BK:145:VAL:O	2.06	0.55
24:BA:2112:G:N3	24:BA:2112:G:H2'	2.21	0.55
24:BA:2148:G:C2	24:BA:2149:G:C5	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:134:ARG:HH11	26:BC:136:LEU:CD1	2.20	0.55
26:BC:181:PRO:HB2	26:BC:184:LYS:HD2	1.88	0.55
24:BA:1496:A:N3	24:BA:1498:C:N4	2.44	0.55
32:BK:57:ARG:NH1	32:BK:57:ARG:HG3	2.20	0.55
1:AA:1001:G:C4	1:AA:1002:G:H1'	2.41	0.55
25:BB:117:G:N2	25:BB:118:G:C1'	2.69	0.55
24:BA:2803:C:OP2	24:BA:2803:C:C6	2.51	0.55
1:AA:1382:C:O2'	1:AA:1383:C:H5'	2.07	0.55
1:AA:1227:A:OP2	15:AP:111:LYS:HE2	2.06	0.54
1:AA:1301:U:O2	1:AA:1301:U:H2'	2.06	0.54
1:AA:1430:C:O2'	1:AA:1431:C:O5'	2.25	0.54
1:AA:1468:A:H2'	1:AA:1469:G:O5'	2.07	0.54
1:AA:192:U:H4'	22:AW:57:ARG:NH1	2.17	0.54
1:AA:195:A:P	22:AW:68:LYS:NZ	2.80	0.54
1:AA:51:A:N6	1:AA:353:A:C2	2.74	0.54
1:AA:59:A:C2	1:AA:331:G:C2	2.94	0.54
1:AA:627:G:O2'	1:AA:628:G:H5'	2.07	0.54
1:AA:822:C:C2'	1:AA:823:G:O5'	2.55	0.54
1:AA:862:C:C1'	1:AA:874:G:H5''	2.35	0.54
1:AA:886:G:H2'	1:AA:887:G:H8	1.71	0.54
1:AA:888:G:H3'	1:AA:889:A:H8	1.72	0.54
1:AA:9:G:P	7:AH:122:GLU:OE1	2.65	0.54
3:AD:1:G:N2	3:AD:73:A:C4	2.75	0.54
4:AE:102:LEU:HD21	4:AE:173:ALA:HB1	1.90	0.54
4:AE:204:ASN:C	4:AE:204:ASN:HD22	2.10	0.54
5:AF:192:THR:HG22	5:AF:192:THR:O	2.05	0.54
5:AF:67:THR:HG23	5:AF:104:GLN:HG2	1.89	0.54
5:AF:91:LEU:HD23	5:AF:92:ALA:N	2.22	0.54
6:AG:179:GLU:O	6:AG:181:MET:N	2.34	0.54
6:AG:61:LYS:HE3	6:AG:61:LYS:C	2.28	0.54
7:AH:103:GLY:O	7:AH:106:PRO:CD	2.54	0.54
8:AI:27:GLN:HA	8:AI:30:LEU:CD1	2.37	0.54
8:AI:59:TYR:CD2	8:AI:61:LEU:HD21	2.41	0.54
9:AJ:86:GLN:CB	9:AJ:148:ASN:ND2	2.70	0.54
11:AL:96:LEU:HG	11:AL:101:PHE:CD1	2.42	0.54
11:AL:48:GLU:N	11:AL:49:PRO:CD	2.69	0.54
12:AM:27:ALA:HB1	12:AM:81:THR:HG22	1.89	0.54
12:AM:28:ARG:HH11	12:AM:28:ARG:HG2	1.71	0.54
14:AO:78:GLN:N	14:AO:81:SER:OG	2.35	0.54
15:AP:34:LEU:HD13	15:AP:41:PRO:HB3	1.88	0.54
1:AA:1216:G:H5''	16:AQ:5:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:275:G:C5'	19:AT:14:LYS:NZ	2.67	0.54
19:AT:40:LYS:HB3	19:AT:42:TYR:CE1	2.38	0.54
22:AW:98:PRO:O	22:AW:99:LEU:O	2.25	0.54
48:B1:15:GLU:O	48:B1:16:LEU:C	2.45	0.54
49:B2:29:ARG:HB3	49:B2:30:ARG:HE	1.72	0.54
50:B3:6:HIS:CE1	50:B3:55:ARG:HB3	2.42	0.54
51:B4:20:ARG:HA	51:B4:23:HIS:ND1	2.21	0.54
52:B5:27:LYS:O	52:B5:28:ARG:CB	2.55	0.54
53:B6:8:ASN:O	53:B6:9:ARG:C	2.44	0.54
24:BA:112:U:O4	24:BA:113:G:N3	2.41	0.54
24:BA:117:G:C2	24:BA:119:A:N6	2.74	0.54
24:BA:1181:C:H2'	24:BA:1182:A:C1'	2.38	0.54
24:BA:1199:U:O2	24:BA:1200:C:C6	2.60	0.54
24:BA:1250:G:H2'	24:BA:1250:G:N3	2.22	0.54
24:BA:1286:A:C2	24:BA:1329:U:C2	2.95	0.54
24:BA:140:A:H2	24:BA:1408:C:O2	1.90	0.54
24:BA:1472:A:C2'	24:BA:1473:G:C8	2.90	0.54
24:BA:1504:C:C2	24:BA:1505:C:C5	2.95	0.54
24:BA:1537:C:C3'	24:BA:1538:G:H5'	2.37	0.54
24:BA:1605:C:HO2'	24:BA:1610:A:H8	1.51	0.54
24:BA:1613:G:H2'	24:BA:1617:C:N4	2.22	0.54
24:BA:1754:C:H5	40:BS:98:LYS:CD	2.19	0.54
24:BA:1791:A:C2	24:BA:1829:A:O2'	2.58	0.54
24:BA:1918:A:OP2	24:BA:1918:A:N9	2.40	0.54
24:BA:1785:A:H5''	24:BA:1982:C:C1'	2.37	0.54
24:BA:1785:A:H5'	24:BA:1982:C:C4'	2.35	0.54
24:BA:2019:A:N6	24:BA:2020:A:C5	2.74	0.54
24:BA:2232:U:O2'	24:BA:2233:U:C5'	2.54	0.54
24:BA:2274:A:C5	24:BA:2276:G:C8	2.95	0.54
24:BA:2353:G:C6	24:BA:2365:G:N2	2.74	0.54
24:BA:2446:G:H8	24:BA:2446:G:O5'	1.90	0.54
24:BA:2484:G:H1'	37:BP:124:LYS:HD2	1.89	0.54
24:BA:2519:U:O4'	24:BA:2542:A:N6	2.35	0.54
24:BA:2453:A:C4'	24:BA:2572:A:O2'	2.40	0.54
24:BA:2596:U:O3'	27:BD:242:ARG:CD	2.55	0.54
24:BA:2690:C:C2'	24:BA:2691:C:OP2	2.55	0.54
24:BA:270(C):C:OP2	24:BA:365:C:O2'	2.24	0.54
24:BA:2720:U:C2'	24:BA:2721:A:H8	2.20	0.54
24:BA:278:A:H2'	24:BA:279:C:C2	2.42	0.54
24:BA:278:A:H2'	24:BA:279:C:N1	2.22	0.54
24:BA:1750:G:N3	24:BA:2860:A:H2	2.04	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:289:A:HO2'	24:BA:290:G:P	2.31	0.54
24:BA:360:G:C6	24:BA:361:G:C4	2.95	0.54
24:BA:424:G:C2	24:BA:425:G:C8	2.94	0.54
24:BA:449:A:H4'	24:BA:1248:G:H22	1.72	0.54
24:BA:523:C:H2'	24:BA:524:U:C5'	2.37	0.54
24:BA:587:C:C6	24:BA:671:C:H1'	2.42	0.54
24:BA:614:U:H3'	24:BA:615:G:C5'	2.36	0.54
24:BA:678:C:C2	24:BA:679:C:C6	2.94	0.54
24:BA:728:G:O2'	24:BA:729:G:H5''	2.07	0.54
24:BA:734:A:C2	24:BA:735:A:N9	2.75	0.54
24:BA:818:G:N2	24:BA:1190:G:C6	2.75	0.54
24:BA:887:A:O3'	24:BA:889:C:H5'	2.06	0.54
25:BB:115:G:H4'	39:BR:36:TYR:OH	2.06	0.54
25:BB:81:G:O6	25:BB:96:G:O6	2.25	0.54
27:BD:243:GLY:O	27:BD:244:ARG:CB	2.55	0.54
24:BA:2227:A:H5''	27:BD:260:ARG:HB2	1.88	0.54
27:BD:63:ARG:NH1	27:BD:63:ARG:CB	2.55	0.54
24:BA:2811:G:H5'	28:BE:60:ASN:ND2	2.21	0.54
29:BF:176:LEU:CD1	29:BF:178:PRO:HD2	2.38	0.54
29:BF:39:TRP:CG	29:BF:40:GLN:N	2.75	0.54
30:BG:22:ARG:HH21	30:BG:23:PHE:N	2.04	0.54
30:BG:6:ALA:O	30:BG:9:ARG:HB2	2.06	0.54
30:BG:83:ARG:HD2	30:BG:83:ARG:H	1.71	0.54
30:BG:8:LYS:HA	30:BG:11:TYR:HD2	1.71	0.54
31:BH:126:PRO:CG	31:BH:132:ARG:HH12	2.21	0.54
32:BK:28:ASN:C	32:BK:29:TYR:HD1	2.10	0.54
33:BL:131:ALA:HB1	33:BL:136:VAL:O	2.06	0.54
33:BL:41:PHE:HZ	33:BL:55:VAL:HB	1.72	0.54
34:BM:123:TYR:HB2	34:BM:129:PRO:HG3	1.87	0.54
34:BM:60:ILE:CG2	34:BM:61:ARG:N	2.70	0.54
35:BN:86:ILE:CG2	35:BN:87:ILE:N	2.70	0.54
24:BA:603:A:C8	36:BO:100:LEU:HD22	2.42	0.54
24:BA:663:G:O5'	36:BO:18:ARG:HD2	2.07	0.54
36:BO:46:LYS:HG2	36:BO:50:ARG:H	1.71	0.54
37:BP:11:LYS:HE2	37:BP:73:PRO:HB3	1.89	0.54
37:BP:27:VAL:HG13	37:BP:28:ALA:N	2.21	0.54
37:BP:99:PRO:O	37:BP:100:GLY:C	2.45	0.54
38:BQ:33:ARG:NH2	51:B4:56:LYS:CB	2.65	0.54
38:BQ:37:THR:HG22	38:BQ:111:LEU:HD22	1.88	0.54
38:BQ:53:HIS:O	38:BQ:56:LYS:HE2	2.06	0.54
25:BB:114:G:H1'	39:BR:38:GLN:HE22	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:3:ARG:CD	39:BR:4:LEU:HG	2.36	0.54
39:BR:26:LEU:H	39:BR:88:ASP:CB	2.20	0.54
41:BT:106:PHE:HA	41:BT:109:LEU:HD12	1.90	0.54
41:BT:31:SER:O	41:BT:32:PHE:C	2.43	0.54
42:BU:5:VAL:HG22	42:BU:39:LEU:HD22	1.88	0.54
42:BU:61:VAL:O	42:BU:99:ILE:HB	2.07	0.54
43:BV:4:LYS:HA	43:BV:106:ILE:HD11	1.88	0.54
43:BV:92:ARG:HG3	43:BV:93:ALA:N	2.22	0.54
45:BX:49:VAL:H	45:BX:56:PRO:HG3	1.72	0.54
46:BY:151:HIS:CD2	46:BY:170:THR:OG1	2.60	0.54
47:BZ:27:GLU:HA	47:BZ:67:VAL:CG1	2.37	0.54
3:AD:54:U:H3'	3:AD:55:U:C6	2.41	0.54
26:BC:223:ARG:CG	26:BC:224:ILE:N	2.70	0.54
26:BC:20:TYR:CZ	26:BC:222:VAL:HG21	2.42	0.54
27:BD:79:VAL:HG21	27:BD:115:GLN:CG	2.37	0.54
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.25	0.54
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.07	0.54
1:AA:1158:C:H2'	1:AA:1158:C:O2	2.07	0.54
1:AA:1403:C:H6	1:AA:1403:C:O5'	1.89	0.54
1:AA:186(D):C:C2	1:AA:186(E):C:C5	2.95	0.54
1:AA:198:G:H21	1:AA:199:G:H1'	1.71	0.54
1:AA:198:G:N2	1:AA:199:G:C1'	2.70	0.54
1:AA:246:A:C6	1:AA:279:A:C5	2.95	0.54
1:AA:403:C:H2'	1:AA:404:U:C6	2.42	0.54
1:AA:702:A:N1	24:BA:1848:A:C6	2.75	0.54
1:AA:836:G:C6	1:AA:851:G:C6	2.94	0.54
1:AA:909:A:C2	1:AA:910:C:C1'	2.90	0.54
3:AD:70:G:H2'	3:AD:71:G:C8	2.42	0.54
4:AE:75:LYS:NZ	4:AE:78:GLN:NE2	2.56	0.54
5:AF:18:TRP:O	5:AF:21:ARG:HG3	2.06	0.54
5:AF:5:ILE:HD12	5:AF:5:ILE:N	2.22	0.54
6:AG:75:PHE:CD1	6:AG:93:PHE:HZ	2.25	0.54
13:AN:22:HIS:HA	13:AN:85:ARG:HB2	1.90	0.54
13:AN:48:ILE:HD11	13:AN:64:ALA:CA	2.35	0.54
13:AN:88:GLY:HA3	13:AN:91:ARG:CA	2.38	0.54
14:AO:35:GLY:O	14:AO:82:VAL:CG1	2.53	0.54
14:AO:78:GLN:C	14:AO:80:HIS:N	2.58	0.54
15:AP:52:GLU:HA	15:AP:55:ARG:NE	2.22	0.54
15:AP:91:ARG:HH12	15:AP:103:THR:HG22	1.72	0.54
15:AP:92:HIS:CD2	15:AP:98:VAL:HG21	2.41	0.54
1:AA:1316:G:H5''	16:AQ:17:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:41:ARG:HA	16:AQ:44:LEU:HD22	1.89	0.54
18:AS:75:ARG:HH11	18:AS:75:ARG:HG3	1.71	0.54
1:AA:761:G:H5''	19:AT:102:GLY:HA3	1.82	0.54
19:AT:104:LYS:HD3	19:AT:105:ALA:HB2	1.88	0.54
19:AT:62:SER:HG	19:AT:72:ARG:HG2	1.70	0.54
20:AU:74:ARG:HA	20:AU:79:LEU:HD21	1.89	0.54
21:AV:15:LEU:HD12	21:AV:44:MET:HE2	1.88	0.54
22:AW:64:ASP:O	22:AW:65:LYS:C	2.45	0.54
51:B4:44:THR:N	51:B4:52:TYR:OH	2.40	0.54
54:B7:29:LYS:O	54:B7:30:ARG:O	2.25	0.54
54:B7:54:GLU:HA	54:B7:57:ARG:CB	2.38	0.54
24:BA:1047:G:C6	24:BA:1110:G:N7	2.75	0.54
24:BA:112:U:P	48:B1:64:ARG:HH11	2.30	0.54
24:BA:1188:U:C2'	24:BA:1188:U:O2	2.53	0.54
24:BA:1196:C:H4'	24:BA:1226:G:C5	2.42	0.54
24:BA:1274:A:O2'	24:BA:1275:A:C5'	2.55	0.54
24:BA:1397:U:O2'	24:BA:1398:C:OP1	2.19	0.54
24:BA:1447:G:C4'	24:BA:1545(A):A:H5'	2.38	0.54
24:BA:1470:G:H3'	24:BA:1470:G:C8	2.42	0.54
24:BA:1388:G:HO2'	24:BA:1525:G:H5'	1.71	0.54
24:BA:1526:G:N2	24:BA:1546:C:C4	2.75	0.54
24:BA:1667:G:O6	24:BA:1992:G:P	2.65	0.54
24:BA:1784:A:C2'	24:BA:1785:A:OP2	2.55	0.54
24:BA:178:G:H3'	24:BA:178:G:C8	2.42	0.54
24:BA:184:C:HO2'	24:BA:217:G:N2	2.05	0.54
24:BA:1945:G:O2'	24:BA:1946:U:H5'	2.06	0.54
24:BA:2016:U:O2'	24:BA:2017:U:H5'	2.07	0.54
24:BA:2224:G:H4'	27:BD:262:ARG:HH22	1.72	0.54
24:BA:2298:A:O4'	24:BA:2322:A:O2'	2.25	0.54
24:BA:2345:G:N2	24:BA:2381:C:H3'	2.22	0.54
24:BA:2350:C:H2'	24:BA:2351:G:H8	1.71	0.54
24:BA:2491:U:H6	24:BA:2492:U:P	2.30	0.54
24:BA:2538:C:H2'	24:BA:2539:C:H6	1.71	0.54
24:BA:259:G:O2'	24:BA:621:A:O2'	2.06	0.54
24:BA:2620:C:C1'	28:BE:156:MET:HG2	2.37	0.54
24:BA:2624:G:C2'	24:BA:2625:G:H5''	2.37	0.54
24:BA:270(P):C:C2	24:BA:270(Q):C:C5	2.96	0.54
24:BA:2767:C:N3	24:BA:2768:C:C5	2.76	0.54
24:BA:2886:G:C2	24:BA:2887:U:C6	2.95	0.54
24:BA:411:G:N3	24:BA:2408:U:O4	2.40	0.54
24:BA:422:A:N1	24:BA:423:A:C5	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:566:U:C2'	24:BA:567:A:H8	2.19	0.54
24:BA:64:A:N3	44:BW:66:LEU:CB	2.70	0.54
24:BA:684:G:C3'	24:BA:684:G:C8	2.88	0.54
24:BA:695:G:O2'	24:BA:696:G:H5'	2.07	0.54
24:BA:709:U:H6	24:BA:709:U:O5'	1.90	0.54
24:BA:713:G:HO2'	24:BA:714:U:P	2.30	0.54
24:BA:892:G:H2'	24:BA:893:C:C5	2.42	0.54
24:BA:869:G:N1	24:BA:909:A:C6	2.76	0.54
24:BA:917:A:N3	24:BA:918:A:C2	2.76	0.54
24:BA:936:C:O2'	24:BA:937:U:O5'	2.26	0.54
25:BB:17:C:C2'	25:BB:18:G:O4'	2.50	0.54
25:BB:76:G:O2'	46:BY:75:ASN:ND2	2.40	0.54
25:BB:78:A:C6	25:BB:99:A:N6	2.74	0.54
27:BD:169:GLU:O	27:BD:172:TYR:O	2.24	0.54
27:BD:256:GLY:C	27:BD:257:LEU:HG	2.28	0.54
24:BA:1568:G:OP2	27:BD:61:LEU:HB2	2.06	0.54
28:BE:101:ARG:HE	28:BE:169:ASN:ND2	2.06	0.54
28:BE:51:PHE:HE1	28:BE:76:ARG:H	1.55	0.54
28:BE:36:ARG:HD2	28:BE:79:ARG:HH11	1.72	0.54
29:BF:156:LEU:HD12	29:BF:163:VAL:HG13	1.88	0.54
29:BF:162:LEU:HD23	29:BF:162:LEU:N	2.23	0.54
29:BF:4:VAL:HG13	29:BF:20:LEU:CD2	2.35	0.54
30:BG:112:PRO:HA	30:BG:117:PHE:HB3	1.88	0.54
31:BH:22:GLY:O	31:BH:37:VAL:HG13	2.07	0.54
31:BH:8:PRO:N	31:BH:51:ARG:NH2	2.55	0.54
33:BL:116:ASN:HD21	33:BL:126:MET:HE3	1.70	0.54
33:BL:72:PRO:HD2	33:BL:111:LYS:HE3	1.90	0.54
34:BM:109:LYS:HE2	34:BM:111:PRO:CD	2.36	0.54
35:BN:106:LEU:O	35:BN:109:LYS:N	2.40	0.54
38:BQ:26:LYS:HE2	38:BQ:70:LEU:CB	2.37	0.54
24:BA:1225:C:P	42:BU:88:ARG:NH2	2.80	0.54
43:BV:16:LYS:H	43:BV:16:LYS:CE	2.20	0.54
43:BV:41:LYS:O	43:BV:42:ARG:O	2.25	0.54
44:BW:14:SER:CB	44:BW:16:LYS:HE3	2.34	0.54
44:BW:27:THR:CG2	44:BW:80:ILE:HG23	2.33	0.54
45:BX:88:LYS:HG2	45:BX:89:PHE:H	1.68	0.54
46:BY:118:GLN:HE22	46:BY:174:VAL:CA	2.06	0.54
46:BY:158:PRO:CB	46:BY:159:PRO:CD	2.80	0.54
46:BY:161:VAL:O	46:BY:162:GLU:HB2	2.05	0.54
32:BK:111:PRO:HG2	32:BK:112:LYS:N	2.21	0.54
32:BK:66:GLU:HA	32:BK:69:LYS:HG3	1.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2171:A:H2	24:BA:2172:U:O2	1.90	0.54
26:BC:8:ARG:NH2	26:BC:12:GLU:HG2	2.22	0.54
26:BC:171:ILE:CD1	26:BC:192:PHE:HZ	2.20	0.54
24:BA:2338:G:C2	24:BA:2339:G:C8	2.95	0.54
36:BO:87:ASP:O	36:BO:87:ASP:OD1	2.25	0.54
14:AO:126:LYS:HD2	14:AO:126:LYS:N	2.21	0.54
1:AA:1048:G:C1'	1:AA:1215:G:H5''	2.38	0.54
1:AA:1085:U:P	1:AA:1086:U:O4	2.65	0.54
1:AA:110:C:C2'	1:AA:111:G:H5'	2.38	0.54
1:AA:1137:C:H5'	1:AA:1138:G:C6	2.42	0.54
1:AA:1217:C:O2'	1:AA:1218:C:H5'	2.08	0.54
1:AA:1256:A:H5''	5:AF:27:LYS:HZ2	1.73	0.54
1:AA:1298:C:C5	9:AJ:114:ARG:HD3	2.42	0.54
1:AA:1312:G:O2'	1:AA:1313:U:H5'	2.08	0.54
1:AA:1324:A:C6	1:AA:1325:C:C4	2.95	0.54
1:AA:1499:A:C8	1:AA:1499:A:H3'	2.41	0.54
1:AA:1520:G:O2'	1:AA:1521:G:H5'	2.08	0.54
1:AA:1532:U:C4'	1:AA:1533:C:OP1	2.55	0.54
1:AA:20:U:N3	1:AA:21:G:C4	2.76	0.54
1:AA:350:G:N2	1:AA:351:G:C2	2.75	0.54
1:AA:645:C:O2'	1:AA:646:U:H5'	2.06	0.54
1:AA:739:C:OP1	17:AR:2:PRO:HG2	2.07	0.54
1:AA:947:G:H2'	1:AA:948:C:C6	2.41	0.54
1:AA:953:G:H4'	15:AP:124:PRO:O	2.07	0.54
1:AA:975:A:N6	1:AA:1366:C:O2	2.40	0.54
2:AC:47:U:O4	2:AC:49:G:O2'	2.25	0.54
4:AE:150:SER:C	4:AE:153:ARG:HB2	2.27	0.54
4:AE:178:ARG:HE	4:AE:196:LEU:CB	2.18	0.54
4:AE:69:LEU:HB2	4:AE:159:PRO:HB2	1.90	0.54
5:AF:37:GLN:O	5:AF:38:ARG:C	2.42	0.54
6:AG:112:VAL:HG12	6:AG:112:VAL:O	2.07	0.54
6:AG:131:ARG:CD	6:AG:132:ARG:H	2.20	0.54
6:AG:43:HIS:HB3	6:AG:46:LYS:CG	2.37	0.54
7:AH:31:LEU:HD23	7:AH:31:LEU:O	2.07	0.54
7:AH:91:LEU:C	7:AH:91:LEU:CD2	2.61	0.54
8:AI:64:GLN:C	8:AI:65:VAL:HG12	2.27	0.54
9:AJ:113:GLU:CB	9:AJ:118:VAL:HG11	2.38	0.54
9:AJ:146:GLU:O	9:AJ:149:ARG:N	2.41	0.54
9:AJ:54:THR:HG23	9:AJ:54:THR:O	2.07	0.54
10:AK:122:ARG:NH1	10:AK:123:GLU:HB3	2.22	0.54
1:AA:643:C:O2'	10:AK:132:GLU:OE2	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:10:ARG:HD3	11:AL:104:ARG:O	2.07	0.54
13:AN:42:TRP:O	13:AN:71:LYS:HE2	2.07	0.54
14:AO:44:THR:CB	14:AO:45:PRO:CD	2.83	0.54
14:AO:33:ARG:HG2	14:AO:60:LEU:CD2	2.37	0.54
15:AP:67:GLU:CD	15:AP:68:GLY:H	2.10	0.54
15:AP:91:ARG:HD3	15:AP:96:LEU:CG	2.37	0.54
22:AW:48:LYS:HB3	22:AW:51:GLU:CD	2.27	0.54
49:B2:10:LYS:HG2	49:B2:12:PRO:HD3	1.86	0.54
51:B4:18:ALA:CA	51:B4:21:SER:OG	2.55	0.54
52:B5:19:ARG:H	52:B5:19:ARG:CD	2.20	0.54
54:B7:1:MET:HB2	54:B7:2:PRO:CD	2.37	0.54
54:B7:37:SER:H	54:B7:41:ILE:HD11	1.73	0.54
24:BA:1099:G:C2	24:BA:1100:C:C6	2.95	0.54
24:BA:1324:G:O2'	24:BA:1616:A:C6	2.60	0.54
24:BA:1364:G:H8	24:BA:1364:G:OP1	1.90	0.54
24:BA:1448:G:H4'	24:BA:1543:A:N1	2.23	0.54
24:BA:149:A:C8	24:BA:149:A:C3'	2.85	0.54
24:BA:1530:G:H2'	24:BA:1531:C:C5	2.39	0.54
24:BA:1534:G:O5'	24:BA:1534:G:H8	1.91	0.54
24:BA:1545(A):A:H3'	24:BA:1545(A):A:H8	1.71	0.54
24:BA:1559:G:C4	24:BA:1559:G:H3'	2.41	0.54
24:BA:1669:A:C2'	24:BA:1669:A:N3	2.66	0.54
24:BA:1703:G:N1	24:BA:1704:G:C4	2.76	0.54
24:BA:2072:G:H2'	24:BA:2073:C:H6	1.73	0.54
24:BA:216:A:O2'	24:BA:217:G:O4'	2.24	0.54
24:BA:2215:G:H2'	24:BA:2216:G:H8	1.72	0.54
24:BA:222:A:O4'	24:BA:271(B):G:N2	2.40	0.54
24:BA:248:G:OP1	50:B3:28:LYS:NZ	2.40	0.54
24:BA:2607:G:C6	24:BA:2608:G:C2	2.95	0.54
24:BA:2705:A:H8	24:BA:2705:A:O5'	1.91	0.54
24:BA:270:A:OP2	24:BA:270(X):G:N2	2.41	0.54
24:BA:2711:A:OP1	24:BA:2712(A):A:OP1	2.25	0.54
24:BA:2883:A:C3'	24:BA:2884:U:H5'	2.37	0.54
24:BA:292:C:C1'	24:BA:293:U:H3	2.20	0.54
24:BA:335:C:N3	24:BA:336:C:C5	2.76	0.54
24:BA:388:G:O2'	24:BA:390:A:N6	2.34	0.54
24:BA:420:C:H2'	24:BA:421:U:O4'	2.06	0.54
24:BA:499:U:H5	24:BA:500:G:C4	2.26	0.54
24:BA:618(A):C:C4	24:BA:619:G:N2	2.76	0.54
24:BA:628:G:C6	24:BA:629:G:C6	2.94	0.54
24:BA:678:C:H2'	24:BA:679:C:H6	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:943:U:H6	24:BA:944:G:N7	2.05	0.54
24:BA:977:G:C5	24:BA:987:G:C2	2.96	0.54
25:BB:14:U:O2	25:BB:107:U:O4'	2.25	0.54
25:BB:31:C:C2	25:BB:32:C:C5	2.96	0.54
27:BD:127:VAL:HA	27:BD:193:VAL:HG12	1.88	0.54
27:BD:186:HIS:HB2	27:BD:188:GLU:CD	2.26	0.54
27:BD:240:ALA:O	27:BD:241:PRO:O	2.24	0.54
27:BD:258:LYS:HE2	27:BD:264:LYS:CB	2.38	0.54
27:BD:87:ASN:N	27:BD:87:ASN:HD22	2.05	0.54
28:BE:154:LYS:HD2	28:BE:155:LYS:O	2.06	0.54
28:BE:173:VAL:CG1	28:BE:184:VAL:HA	2.37	0.54
28:BE:98:PRO:CB	28:BE:174:ASP:HA	2.25	0.54
28:BE:17:ASP:O	28:BE:18:ASP:C	2.45	0.54
28:BE:45:THR:CG2	28:BE:79:ARG:CZ	2.84	0.54
28:BE:45:THR:OG1	28:BE:80:GLU:O	2.23	0.54
29:BF:200:GLU:CG	29:BF:201:VAL:H	2.21	0.54
30:BG:4:ASP:CB	30:BG:104:GLU:HG2	2.30	0.54
30:BG:8:LYS:HD2	30:BG:12:TYR:HD2	1.72	0.54
31:BH:40:GLU:HG2	31:BH:55:PRO:HG3	1.89	0.54
33:BL:77:LEU:HG	33:BL:111:LYS:CD	2.38	0.54
34:BM:109:LYS:CD	34:BM:110:GLY:H	2.19	0.54
34:BM:74:ARG:CD	34:BM:82:LEU:HD22	2.38	0.54
35:BN:64:ARG:HH21	35:BN:65:THR:N	2.06	0.54
35:BN:75:SER:CB	40:BS:77:PRO:HG2	2.37	0.54
36:BO:70:GLN:CB	36:BO:110:TYR:OH	2.50	0.54
36:BO:45:LEU:HB2	36:BO:46:LYS:NZ	2.22	0.54
24:BA:245:G:OP1	36:BO:65:ARG:CZ	2.55	0.54
36:BO:65:ARG:NH2	36:BO:66:GLY:N	2.55	0.54
37:BP:42:ILE:CD1	37:BP:46:GLN:NE2	2.69	0.54
37:BP:77:LYS:CB	37:BP:78:PRO:CD	2.85	0.54
38:BQ:24:GLN:O	38:BQ:25:ALA:C	2.45	0.54
38:BQ:76:VAL:HG12	38:BQ:77:ARG:HG2	1.90	0.54
40:BS:35:LYS:HD2	40:BS:83:ILE:O	2.06	0.54
41:BT:110:VAL:HG12	41:BT:114:LYS:NZ	2.22	0.54
42:BU:61:VAL:CG1	42:BU:62:LEU:H	2.20	0.54
42:BU:88:ARG:O	42:BU:90:PRO:HD3	2.07	0.54
46:BY:18:LEU:CD1	46:BY:23:LYS:HG2	2.38	0.54
46:BY:2:GLU:C	46:BY:3:TYR:CG	2.80	0.54
47:BZ:50:ASN:OD1	47:BZ:63:VAL:HG11	2.07	0.54
24:BA:2150:U:C2'	24:BA:2151:G:H8	2.18	0.54
24:BA:2174:C:H2'	24:BA:2175:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:22:ILE:CG2	26:BC:189:ILE:HG21	2.27	0.54
1:AA:1000:A:C2	1:AA:1001:G:N7	2.75	0.54
24:BA:2195:C:C2	24:BA:2196:C:H6	2.25	0.54
5:AF:157:ILE:HG21	5:AF:164:ARG:CZ	2.36	0.54
24:BA:2100:G:H1'	24:BA:2190:G:H22	1.67	0.54
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.43	0.54
1:AA:1115:C:O4'	16:AQ:61:TRP:HA	2.08	0.54
1:AA:1128:C:C5	1:AA:1139:G:O6	2.60	0.54
1:AA:1321:C:C5	1:AA:1322:C:C2'	2.89	0.54
1:AA:1474:G:N1	1:AA:1475:G:C5	2.76	0.54
1:AA:791:G:N2	1:AA:1498:U:P	2.79	0.54
1:AA:193:C:H2'	1:AA:194:C:H6	1.69	0.54
1:AA:325:A:H2'	1:AA:326:G:C5'	2.37	0.54
1:AA:451:A:H1'	1:AA:452:A:C4	2.43	0.54
1:AA:529:G:N1	14:AO:49:ASN:HB3	2.22	0.54
1:AA:575:G:O2'	1:AA:576:G:C5'	2.55	0.54
1:AA:611:A:N6	1:AA:629:G:H1	2.06	0.54
1:AA:632:A:C4	1:AA:633:G:C8	2.96	0.54
1:AA:828:A:C5'	1:AA:859:A:N1	2.70	0.54
1:AA:858:G:H22	1:AA:869:G:H3'	1.72	0.54
1:AA:878:G:P	10:AK:88:LYS:HG2	2.47	0.54
1:AA:90:C:N3	1:AA:91:C:C5	2.76	0.54
2:AC:58:A:C8	2:AC:61:C:C4	2.96	0.54
2:AC:59:A:C5	2:AC:60:U:C5	2.96	0.54
4:AE:20:GLU:O	4:AE:39:ILE:HG13	2.07	0.54
4:AE:50:GLU:O	4:AE:51:LEU:C	2.46	0.54
5:AF:130:VAL:HA	5:AF:133:ALA:HB3	1.88	0.54
5:AF:49:SER:O	5:AF:51:GLY:N	2.40	0.54
5:AF:19:GLU:HB3	5:AF:55:VAL:O	2.07	0.54
6:AG:101:LEU:HD23	6:AG:135:LEU:O	2.07	0.54
6:AG:104:VAL:O	6:AG:107:ARG:HB2	2.07	0.54
6:AG:177:ASP:CG	6:AG:179:GLU:HB2	2.27	0.54
7:AH:41:VAL:CG1	7:AH:112:LEU:HD12	2.37	0.54
8:AI:7:ASN:ND2	8:AI:62:TRP:CD1	2.75	0.54
9:AJ:108:ALA:O	9:AJ:110:GLN:N	2.41	0.54
10:AK:28:ALA:CB	10:AK:57:PRO:O	2.56	0.54
12:AM:31:GLY:CA	12:AM:81:THR:OG1	2.56	0.54
12:AM:11:PHE:CE2	12:AM:66:ARG:O	2.61	0.54
14:AO:60:LEU:HD11	14:AO:64:TYR:HB3	1.89	0.54
14:AO:6:THR:OG1	14:AO:9:GLN:CB	2.56	0.54
14:AO:85:ILE:CG1	14:AO:87:GLY:H	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1228:C:OP2	15:AP:111:LYS:NZ	2.34	0.54
17:AR:40:SER:O	17:AR:43:LEU:N	2.41	0.54
17:AR:79:ARG:CZ	17:AR:79:ARG:HB2	2.38	0.54
19:AT:56:VAL:C	19:AT:57:VAL:HG12	2.28	0.54
19:AT:58:GLU:OE1	19:AT:74:LEU:HB3	2.07	0.54
21:AV:78:ARG:O	21:AV:79:THR:OG1	2.24	0.54
22:AW:16:HIS:O	22:AW:19:SER:HB3	2.07	0.54
22:AW:23:ARG:HA	22:AW:26:ASN:HD21	1.71	0.54
24:BA:112:U:O5'	48:B1:64:ARG:NH1	2.41	0.54
49:B2:7:LYS:HZ1	49:B2:33:GLN:N	2.04	0.54
50:B3:28:LYS:CE	50:B3:29:PRO:HD2	2.37	0.54
50:B3:57:GLU:CA	50:B3:61:ARG:NH1	2.63	0.54
51:B4:9:LYS:O	51:B4:10:LYS:CG	2.56	0.54
51:B4:51:TYR:HB3	51:B4:55:ARG:N	2.21	0.54
24:BA:2016:U:C2	51:B4:6:VAL:HG21	2.42	0.54
52:B5:25:LYS:CE	54:B7:35:GLN:O	2.55	0.54
52:B5:20:ASN:ND2	52:B5:42:TRP:CD1	2.74	0.54
54:B7:23:VAL:HG12	54:B7:24:ALA:N	2.21	0.54
24:BA:1303:G:C5	24:BA:1304:C:C5	2.96	0.54
24:BA:1327:C:H3'	24:BA:1328:G:C8	2.43	0.54
24:BA:1363:C:H2'	24:BA:1363:C:O2	2.07	0.54
24:BA:1424:G:O4'	24:BA:1424:G:OP2	2.25	0.54
24:BA:1476:C:H6	24:BA:1477:A:C8	2.24	0.54
24:BA:1506:C:O2	24:BA:1507:A:O2'	2.23	0.54
24:BA:1552:G:C4'	24:BA:1553:A:OP1	2.55	0.54
24:BA:1569:A:C2	24:BA:1570:A:C4	2.95	0.54
24:BA:15:G:O2'	24:BA:16:G:C5'	2.49	0.54
24:BA:781:A:H2	24:BA:1776:G:C2	2.24	0.54
24:BA:1853:A:C2	24:BA:1854:A:C4	2.95	0.54
24:BA:2001:A:H2'	24:BA:2002:G:H8	1.69	0.54
24:BA:2399:G:C2	24:BA:2400:G:H1'	2.42	0.54
24:BA:241:A:O2'	24:BA:242:G:C4'	2.40	0.54
24:BA:2437:U:H5'	24:BA:2598:A:N1	2.23	0.54
24:BA:2595:G:C1'	24:BA:2599:G:H22	2.15	0.54
24:BA:527:C:C4'	24:BA:2779:U:O4	2.55	0.54
24:BA:2849:U:C6	24:BA:2849:U:H3'	2.42	0.54
24:BA:2850:A:C5	24:BA:2869:G:H5'	2.42	0.54
24:BA:303:U:O2'	24:BA:304:G:H5'	2.07	0.54
24:BA:343:C:C2'	24:BA:344:G:C5'	2.84	0.54
24:BA:401:A:C4	24:BA:402:A:C8	2.95	0.54
24:BA:411:G:N3	24:BA:2408:U:C4	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:465:G:C5	24:BA:466:A:N7	2.76	0.54
24:BA:482:A:N6	24:BA:506:G:C6	2.75	0.54
24:BA:50:U:C6	24:BA:50:U:C3'	2.89	0.54
24:BA:534:U:OP1	41:BT:24:TYR:HE2	1.90	0.54
24:BA:659:C:C2	24:BA:660:G:C8	2.95	0.54
24:BA:666:G:C2	24:BA:667:U:C2	2.95	0.54
24:BA:714:U:C2'	24:BA:715:G:N7	2.59	0.54
24:BA:751:A:C5'	43:BV:90:ARG:CZ	2.81	0.54
24:BA:878:A:C4	24:BA:879:G:N7	2.75	0.54
25:BB:100:G:C8	25:BB:101:A:N7	2.76	0.54
25:BB:96:G:OP2	25:BB:96:G:H8	1.89	0.54
27:BD:106:ILE:CG1	27:BD:108:PRO:HD3	2.36	0.54
27:BD:245:PRO:O	27:BD:252:TRP:CZ3	2.60	0.54
28:BE:116:VAL:HG23	28:BE:117:MET:H	1.73	0.54
24:BA:2572:A:C2	28:BE:144:ARG:NE	2.75	0.54
28:BE:197:ILE:CD1	28:BE:199:ARG:HH22	2.17	0.54
28:BE:42:ASP:C	28:BE:44:TYR:H	2.10	0.54
28:BE:51:PHE:CD1	28:BE:52:LEU:N	2.76	0.54
28:BE:60:ASN:O	28:BE:63:LEU:HB2	2.08	0.54
30:BG:12:TYR:O	30:BG:15:VAL:HG22	2.08	0.54
33:BL:90:LYS:O	33:BL:94:GLU:HB2	2.06	0.54
34:BM:23:LEU:HD21	34:BM:61:ARG:O	2.07	0.54
24:BA:2640:G:O3'	34:BM:75:TYR:CZ	2.59	0.54
34:BM:80:GLY:O	34:BM:81:GLY:C	2.45	0.54
37:BP:55:VAL:HG22	37:BP:64:ILE:HD11	1.88	0.54
38:BQ:28:LEU:HA	38:BQ:34:ILE:CG1	2.37	0.54
38:BQ:33:ARG:HH22	51:B4:56:LYS:CB	2.09	0.54
39:BR:102:ALA:O	39:BR:105:ALA:N	2.40	0.54
39:BR:10:ARG:NH2	39:BR:30:ARG:HD3	2.22	0.54
39:BR:58:LEU:N	39:BR:65:VAL:HG21	2.22	0.54
40:BS:54:ARG:HG3	40:BS:101:PHE:HD2	1.72	0.54
40:BS:102:ILE:O	40:BS:103:ARG:C	2.45	0.54
40:BS:44:ASP:C	40:BS:46:GLU:N	2.61	0.54
40:BS:53:ARG:HD3	40:BS:105:LEU:HD21	1.89	0.54
40:BS:7:ILE:HG13	40:BS:8:LYS:H	1.71	0.54
41:BT:33:ARG:O	41:BT:35:ALA:N	2.40	0.54
41:BT:37:GLU:O	41:BT:39:LEU:N	2.40	0.54
41:BT:59:ARG:HA	41:BT:62:ILE:HB	1.89	0.54
42:BU:35:LEU:N	42:BU:61:VAL:CG1	2.70	0.54
42:BU:82:ARG:O	42:BU:82:ARG:CG	2.52	0.54
45:BX:74:PRO:C	45:BX:76:CYS:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:132:ASN:O	46:BY:133:ILE:HG23	2.08	0.54
46:BY:74:VAL:HG22	46:BY:87:ASP:N	2.11	0.54
46:BY:7:ALA:HB3	46:BY:36:LYS:C	2.26	0.54
47:BZ:9:SER:O	47:BZ:10:THR:O	2.25	0.54
47:BZ:40:GLN:HE21	47:BZ:57:PHE:HB3	1.72	0.54
32:BK:93:THR:HG23	32:BK:95:LYS:N	2.23	0.54
3:AD:15:G:C6	3:AD:48:C:N4	2.75	0.54
3:AD:60:U:H2'	3:AD:61:C:OP1	2.07	0.54
24:BA:2175:C:H2'	24:BA:2176:A:O5'	2.08	0.54
26:BC:93:TYR:CE2	26:BC:109:ASP:O	2.60	0.54
1:AA:1004:A:H8	1:AA:1036:G:C6	2.25	0.54
24:BA:132:G:N3	24:BA:132:G:H2'	2.20	0.54
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.42	0.54
1:AA:1095:U:H5''	1:AA:1109:C:N3	2.23	0.54
1:AA:1132:C:C4	1:AA:1133:G:N7	2.76	0.54
1:AA:1229:A:O2'	1:AA:1230:C:H5'	2.08	0.54
1:AA:1240:U:O2'	1:AA:1241:G:P	2.65	0.54
1:AA:1399:C:N4	1:AA:1502:A:C8	2.75	0.54
1:AA:1515:C:O2	1:AA:1516:G:C8	2.61	0.54
1:AA:191:G:H21	22:AW:103:GLY:C	2.10	0.54
1:AA:199:G:H2'	1:AA:200:G:C8	2.35	0.54
1:AA:246:A:HO2'	1:AA:247:G:C4'	2.13	0.54
1:AA:270:A:C6	1:AA:271:C:C4	2.96	0.54
1:AA:333:G:O2'	1:AA:334:C:H5'	2.08	0.54
1:AA:428:G:H5'	1:AA:430:A:O4'	2.06	0.54
1:AA:520:A:OP2	14:AO:51:ALA:HB1	2.08	0.54
1:AA:755:G:H21	10:AK:1:MET:CE	2.20	0.54
1:AA:795:C:H4'	1:AA:1506:U:C2	2.42	0.54
1:AA:942:G:N2	11:AL:124:GLN:CD	2.60	0.54
2:AC:40:C:H2'	2:AC:40:C:O2	2.07	0.54
2:AC:40:C:H2'	2:AC:41:C:H5''	1.88	0.54
2:AC:59:A:H2'	2:AC:59:A:N3	2.21	0.54
2:AC:59:A:C6	2:AC:60:U:C5	2.96	0.54
3:AD:72:C:O2	3:AD:72:C:H2'	2.06	0.54
4:AE:15:VAL:HG22	4:AE:209:ARG:CD	2.34	0.54
4:AE:178:ARG:HD2	4:AE:184:VAL:HG21	1.89	0.54
4:AE:52:GLU:CG	4:AE:53:ARG:N	2.69	0.54
5:AF:152:ILE:HG22	5:AF:167:TRP:HE3	1.72	0.54
6:AG:101:LEU:HD12	6:AG:101:LEU:C	2.27	0.54
6:AG:146:ILE:O	6:AG:147:ALA:HB2	2.07	0.54
6:AG:173:TRP:HD1	6:AG:185:PHE:CE2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:20:TYR:CB	6:AG:26:CYS:O	2.55	0.54
6:AG:43:HIS:HB3	6:AG:46:LYS:HB2	1.90	0.54
7:AH:79:GLU:CB	7:AH:92:LYS:HA	2.30	0.54
9:AJ:153:HIS:CE1	13:AN:58:PRO:HD2	2.41	0.54
9:AJ:15:ASP:HB2	9:AJ:23:VAL:CG1	2.37	0.54
9:AJ:95:ARG:C	9:AJ:97:GLN:N	2.60	0.54
10:AK:11:THR:HA	10:AK:14:ARG:NH1	2.22	0.54
10:AK:51:VAL:HG21	10:AK:60:ARG:HB3	1.89	0.54
1:AA:1151:A:OP1	12:AM:41:PRO:CA	2.54	0.54
11:AL:114:TYR:HD1	12:AM:60:ARG:NH2	2.06	0.54
14:AO:56:ALA:CB	14:AO:100:ILE:HD11	2.37	0.54
14:AO:83:VAL:HG23	14:AO:104:VAL:HB	1.90	0.54
15:AP:27:LYS:HD2	15:AP:31:LYS:HZ3	1.70	0.54
12:AM:49:VAL:CG1	16:AQ:45:ARG:HD2	2.37	0.54
5:AF:12:LEU:HD11	16:AQ:57:ARG:HB2	1.90	0.54
19:AT:45:HIS:HB2	19:AT:69:LYS:HD3	1.90	0.54
20:AU:53:ARG:C	20:AU:55:ARG:N	2.61	0.54
22:AW:73:HIS:O	22:AW:76:ALA:N	2.38	0.54
24:BA:400:G:C2	50:B3:63:TYR:OH	2.61	0.54
52:B5:7:ILE:C	52:B5:9:LEU:N	2.59	0.54
24:BA:1309:G:C5'	53:B6:9:ARG:H	2.12	0.54
24:BA:1005:C:H6	24:BA:1012:U:H3	1.55	0.54
24:BA:1188:U:H2'	24:BA:1189:A:C4'	2.36	0.54
24:BA:1236:G:O2'	24:BA:1237:A:O5'	2.25	0.54
24:BA:1271:G:OP2	24:BA:1272:A:OP1	2.25	0.54
24:BA:116:C:H1'	24:BA:127:A:H1'	1.88	0.54
24:BA:1423:G:C2	24:BA:1424:G:N7	2.75	0.54
24:BA:1548:C:H2'	24:BA:1549:C:H6	1.70	0.54
24:BA:1774:C:C5	24:BA:1775:U:C5	2.95	0.54
24:BA:1778:U:C6	24:BA:1778:U:H3'	2.43	0.54
24:BA:1839:G:C2'	24:BA:1839:G:N3	2.59	0.54
24:BA:2257:U:OP1	47:BZ:11:ARG:NH2	2.40	0.54
24:BA:2549:G:O2'	24:BA:2550:G:H5'	2.07	0.54
24:BA:2617:C:N3	24:BA:2618:G:C8	2.76	0.54
24:BA:270(W):G:C5	24:BA:270(X):G:N7	2.75	0.54
24:BA:2779:U:C6	24:BA:2779:U:O5'	2.55	0.54
24:BA:2808:U:H3'	24:BA:2809:A:C5'	2.22	0.54
24:BA:2810:A:H2'	24:BA:2811:G:C5'	2.38	0.54
24:BA:2877:G:C2	24:BA:2878:U:C2	2.96	0.54
24:BA:378:C:O2'	24:BA:379:G:H5'	2.07	0.54
24:BA:577:G:C2	24:BA:578:A:C5	2.96	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:585:G:C2'	24:BA:586:A:C8	2.90	0.54
24:BA:669:G:N2	24:BA:670:A:N3	2.56	0.54
24:BA:695:G:C4	24:BA:696:G:C8	2.95	0.54
24:BA:763:G:C5'	27:BD:211:ARG:NH1	2.70	0.54
24:BA:820:A:H2'	24:BA:820:A:N3	2.23	0.54
24:BA:966:G:C6	24:BA:967:C:N4	2.76	0.54
27:BD:142:VAL:HG12	27:BD:192:THR:O	2.07	0.54
27:BD:260:ARG:HH11	27:BD:260:ARG:HG3	1.72	0.54
28:BE:137:HIS:CB	28:BE:138:PRO:CD	2.78	0.54
28:BE:58:ARG:HD2	28:BE:73:GLU:OE2	2.07	0.54
28:BE:93:VAL:CG1	28:BE:180:ASN:ND2	2.71	0.54
29:BF:105:VAL:HA	29:BF:108:LYS:HB3	1.90	0.54
29:BF:4:VAL:O	29:BF:6:VAL:N	2.39	0.54
29:BF:78:ILE:C	29:BF:80:ALA:H	2.03	0.54
30:BG:131:TYR:CE1	30:BG:157:ILE:O	2.60	0.54
30:BG:131:TYR:OH	30:BG:157:ILE:O	2.26	0.54
30:BG:57:ALA:CA	30:BG:68:PRO:CD	2.76	0.54
30:BG:75:LYS:NZ	30:BG:85:GLY:HA3	2.23	0.54
31:BH:27:LYS:HG2	31:BH:32:GLU:HB3	1.88	0.54
31:BH:33:LEU:HD22	31:BH:75:ALA:HB2	1.88	0.54
33:BL:8:VAL:HG13	33:BL:30:HIS:CD2	2.42	0.54
33:BL:52:ILE:HB	33:BL:72:PRO:CB	2.38	0.54
34:BM:8:GLN:O	34:BM:9:VAL:C	2.46	0.54
35:BN:113:LYS:HZ3	35:BN:116:SER:HB3	1.72	0.54
35:BN:13:ASN:N	35:BN:94:ARG:HB2	2.22	0.54
36:BO:126:VAL:HG23	36:BO:146:VAL:C	2.27	0.54
36:BO:10:PRO:HB2	36:BO:14:LYS:HD3	1.89	0.54
24:BA:2416:C:OP1	36:BO:59:LEU:CA	2.56	0.54
37:BP:42:ILE:CD1	37:BP:42:ILE:C	2.76	0.54
38:BQ:63:ARG:HH21	38:BQ:76:VAL:HG12	1.71	0.54
40:BS:35:LYS:O	40:BS:36:GLU:O	2.26	0.54
40:BS:63:VAL:C	40:BS:64:ARG:NH1	2.61	0.54
41:BT:110:VAL:HG12	41:BT:114:LYS:HE3	1.89	0.54
42:BU:18:LEU:HD23	42:BU:18:LEU:N	2.21	0.54
44:BW:57:LEU:HD23	44:BW:58:HIS:N	2.22	0.54
45:BX:38:ILE:CA	45:BX:60:PHE:HZ	2.16	0.54
26:BC:160:ARG:C	26:BC:161:ILE:HG12	2.27	0.54
24:BA:1416:G:N2	24:BA:1582:C:C2	2.75	0.54
24:BA:718:A:H5''	24:BA:719:C:H6	1.69	0.54
24:BA:2462:U:N3	24:BA:2463:C:C4	2.76	0.54
1:AA:1118:C:O4'	1:AA:1179:A:H1'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:128:G:H21	1:AA:234:C:H1'	1.73	0.54
1:AA:1371:G:OP2	11:AL:11:LYS:HE3	2.07	0.54
1:AA:1403:C:C6	1:AA:1403:C:O5'	2.61	0.54
1:AA:1433:A:C2'	1:AA:1434:A:H5'	2.38	0.54
1:AA:1443:G:C5'	1:AA:1446:A:H5'	2.37	0.54
1:AA:148:G:C2	1:AA:175:C:N3	2.76	0.54
1:AA:198:G:N2	1:AA:199:G:N9	2.56	0.54
1:AA:232:G:C6	1:AA:233:C:N4	2.75	0.54
1:AA:123:C:OP1	1:AA:312:C:H5'	2.06	0.54
1:AA:425:G:O3'	6:AG:45:GLN:NE2	2.30	0.54
1:AA:468:A:H1'	18:AS:82:GLN:NE2	2.22	0.54
1:AA:575:G:HO2'	1:AA:576:G:P	2.31	0.54
1:AA:578:C:O2'	1:AA:729:A:O4'	2.25	0.54
1:AA:664:G:C8	1:AA:664:G:C3'	2.90	0.54
1:AA:688:G:H2'	1:AA:689:C:H5'	1.88	0.54
1:AA:698:G:O2'	1:AA:699:C:H5'	2.08	0.54
1:AA:727:G:N2	1:AA:731:G:C4	2.75	0.54
1:AA:80:G:C3'	1:AA:81:G:H8	2.18	0.54
1:AA:88:C:C2'	1:AA:89:U:C5	2.91	0.54
1:AA:935:A:C4	1:AA:936:C:C5	2.96	0.54
2:AC:62:C:O2'	2:AC:63:G:C5'	2.55	0.54
1:AA:1189:C:O2'	5:AF:176:HIS:NE2	2.40	0.54
5:AF:64:VAL:HB	5:AF:99:VAL:HG11	1.90	0.54
5:AF:73:PRO:HD3	5:AF:105:GLU:OE2	2.08	0.54
6:AG:69:GLY:C	6:AG:70:ILE:HG12	2.27	0.54
9:AJ:107:ALA:CB	9:AJ:123:GLU:OE1	2.54	0.54
11:AL:98:PRO:O	11:AL:100:GLY:N	2.41	0.54
12:AM:3:LYS:HG3	12:AM:75:ILE:HA	1.88	0.54
1:AA:707:C:H4'	13:AN:20:TYR:CG	2.42	0.54
13:AN:66:LEU:O	13:AN:69:ALA:HB3	2.08	0.54
15:AP:16:ASP:O	15:AP:19:LEU:HG	2.08	0.54
17:AR:9:GLN:O	17:AR:12:ILE:HB	2.08	0.54
17:AR:41:GLU:HA	17:AR:44:LYS:CE	2.38	0.54
17:AR:69:TYR:O	17:AR:70:LEU:C	2.44	0.54
20:AU:63:GLN:HA	20:AU:66:LEU:CD2	2.35	0.54
13:AN:84:VAL:HG21	20:AU:88:LYS:NZ	2.22	0.54
21:AV:22:LEU:HA	21:AV:25:LYS:NZ	2.22	0.54
22:AW:50:GLU:HA	22:AW:53:LEU:HD12	1.90	0.54
22:AW:87:LYS:HA	22:AW:90:GLN:HB2	1.90	0.54
48:B1:27:LEU:H	48:B1:27:LEU:CD1	2.20	0.54
48:B1:63:ARG:HB3	48:B1:63:ARG:NH2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:50:VAL:O	49:B2:52:HIS:ND1	2.40	0.54
51:B4:13:LYS:HD2	51:B4:16:ARG:HH12	1.73	0.54
24:BA:2046:G:C1'	51:B4:22:HIS:HD1	2.20	0.54
24:BA:1000:A:N6	24:BA:1155:A:C8	2.76	0.54
24:BA:1097:U:O2'	24:BA:1098:A:H5'	2.08	0.54
24:BA:1222:C:N3	24:BA:1223:C:C5	2.76	0.54
24:BA:1212:G:N7	24:BA:1235:G:O6	2.40	0.54
24:BA:1270:C:C2	24:BA:1325:G:N7	2.76	0.54
24:BA:13:A:H61	24:BA:525:U:H2'	1.73	0.54
24:BA:13:A:O2'	24:BA:14:A:O5'	2.22	0.54
24:BA:1435:G:C2	24:BA:1558:A:N6	2.76	0.54
24:BA:1602:U:H6	24:BA:1602:U:H3'	1.69	0.54
24:BA:1774:C:H5	24:BA:1775:U:O4	1.90	0.54
24:BA:18:C:O5'	24:BA:18:C:H6	1.91	0.54
24:BA:1983:C:O2'	24:BA:1984:G:C5'	2.54	0.54
24:BA:1992:G:O2'	24:BA:1993:U:H5	1.91	0.54
24:BA:2057:A:C5	24:BA:2058:A:N7	2.76	0.54
24:BA:228:A:C8	24:BA:229:A:H4'	2.42	0.54
24:BA:2387:U:O5'	24:BA:2387:U:H6	1.90	0.54
24:BA:2447:G:N1	24:BA:2500:U:N3	2.56	0.54
24:BA:2572:A:H5'	24:BA:2573:C:OP1	2.07	0.54
24:BA:2597:G:O4'	27:BD:242:ARG:NE	2.37	0.54
24:BA:1782:C:H5'	24:BA:2609:U:O4	2.08	0.54
24:BA:2698:U:C2	24:BA:2699:C:C5	2.96	0.54
24:BA:342:G:H2'	24:BA:343:C:H6	1.72	0.54
24:BA:347:A:N3	24:BA:347:A:C2'	2.70	0.54
24:BA:411:G:P	24:BA:412:A:OP2	2.65	0.54
24:BA:514:A:C2	24:BA:515:A:C1'	2.91	0.54
24:BA:530:G:H1'	24:BA:532:A:OP2	2.08	0.54
24:BA:532:A:H61	24:BA:562:U:H4'	1.72	0.54
24:BA:600:G:O2'	29:BF:104:LYS:HG2	2.08	0.54
24:BA:608:A:H2'	24:BA:609:A:C5'	2.38	0.54
24:BA:64:A:C2	44:BW:66:LEU:HB2	2.41	0.54
24:BA:675:A:N7	24:BA:804:A:N3	2.56	0.54
24:BA:842:G:N2	24:BA:937:U:C2	2.75	0.54
24:BA:861:A:H3'	24:BA:861:A:C8	2.42	0.54
24:BA:95:G:C2'	48:B1:43:HIS:CE1	2.89	0.54
24:BA:979:G:N2	24:BA:985:C:C4	2.75	0.54
24:BA:979:G:C3'	24:BA:980:A:H5''	2.20	0.54
25:BB:106:G:C6	25:BB:107:U:C5	2.95	0.54
27:BD:118:VAL:O	27:BD:119:ALA:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:137:PRO:HG2	27:BD:140:THR:CB	2.37	0.54
27:BD:176:ARG:HH12	27:BD:182:LEU:CD1	2.14	0.54
27:BD:181:GLU:HA	27:BD:270:ILE:HD12	1.88	0.54
27:BD:5:LYS:HA	27:BD:29:PRO:N	2.22	0.54
28:BE:48:GLN:H	28:BE:48:GLN:CD	2.11	0.54
28:BE:66:HIS:O	28:BE:67:PHE:C	2.43	0.54
28:BE:53:PRO:HD2	28:BE:74:PRO:CA	2.35	0.54
30:BG:116:ASP:OD2	30:BG:116:ASP:N	2.40	0.54
24:BA:2306:C:HO2'	30:BG:153:ARG:HD3	1.72	0.54
30:BG:41:GLN:OE1	30:BG:155:MET:HG3	2.07	0.54
30:BG:75:LYS:CD	30:BG:84:LYS:HB2	2.38	0.54
31:BH:76:VAL:CA	31:BH:79:VAL:HG22	2.34	0.54
31:BH:88:LEU:HD23	31:BH:89:ILE:C	2.27	0.54
24:BA:1096:A:N6	33:BL:30:HIS:CD2	2.76	0.54
33:BL:14:ALA:HB2	33:BL:53:VAL:HG21	1.88	0.54
34:BM:124:ALA:C	34:BM:125:GLY:O	2.43	0.54
34:BM:6:PRO:CA	34:BM:41:ASP:HB3	2.30	0.54
34:BM:7:LYS:CD	34:BM:10:GLU:OE1	2.56	0.54
35:BN:18:LYS:HB3	35:BN:45:GLU:OE2	2.07	0.54
35:BN:63:VAL:CG2	35:BN:82:ASN:H	2.20	0.54
36:BO:46:LYS:HG2	36:BO:50:ARG:N	2.23	0.54
36:BO:76:LYS:CE	36:BO:96:THR:HG21	2.37	0.54
37:BP:16:ARG:HD3	37:BP:16:ARG:N	2.21	0.54
37:BP:54:MET:HB3	37:BP:58:PHE:HE2	1.72	0.54
38:BQ:13:HIS:HB3	38:BQ:16:HIS:NE2	2.22	0.54
39:BR:69:VAL:O	39:BR:73:LEU:HD22	2.08	0.54
39:BR:95:HIS:ND1	39:BR:96:GLY:N	2.45	0.54
40:BS:103:ARG:NH2	40:BS:103:ARG:HB2	2.22	0.54
40:BS:19:LEU:HD12	40:BS:85:LYS:HZ3	1.72	0.54
42:BU:93:GLU:CG	42:BU:95:LEU:HD23	2.38	0.54
43:BV:59:VAL:CA	43:BV:63:ASP:HA	2.18	0.54
45:BX:46:LYS:NZ	45:BX:47:LYS:HG3	2.22	0.54
45:BX:84:ARG:CG	45:BX:85:VAL:N	2.70	0.54
32:BK:88:ILE:HG22	32:BK:90:GLY:N	2.21	0.54
3:AD:56:C:P	3:AD:57:G:O6	2.65	0.54
24:BA:2121:G:H2'	24:BA:2122:U:C6	2.43	0.54
26:BC:163:PHE:CZ	26:BC:195:ALA:HB1	2.42	0.54
26:BC:48:GLY:N	26:BC:210:ARG:HG3	2.23	0.54
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.22	0.54
25:BB:110:G:H2'	25:BB:111:U:O5'	2.08	0.54
14:AO:125:PRO:C	14:AO:127:GLU:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:96:ILE:HG13	12:AM:96:ILE:O	2.07	0.54
31:BH:114:VAL:O	31:BH:114:VAL:HG13	2.06	0.54
1:AA:1085:U:H5'	1:AA:1094:G:N2	2.22	0.54
1:AA:977:A:N6	1:AA:1224:G:P	2.81	0.54
1:AA:1239:A:C2	1:AA:1298:C:C5	2.95	0.54
1:AA:1251:A:N6	1:AA:1285:A:H2	2.04	0.54
1:AA:1252:A:C4	1:AA:1253:G:C8	2.96	0.54
1:AA:1316:G:N3	1:AA:1318:A:N7	2.56	0.54
1:AA:1419:G:H2'	1:AA:1420:C:C6	2.43	0.54
1:AA:1440:C:C2	1:AA:1441:G:C8	2.96	0.54
1:AA:226:G:N2	1:AA:227:G:H1'	2.22	0.54
1:AA:23:C:C2'	1:AA:23:C:O2	2.55	0.54
1:AA:412:A:O2'	1:AA:413:G:C8	2.61	0.54
1:AA:640:A:O2'	1:AA:641:U:H5'	2.08	0.54
1:AA:729:A:C2	1:AA:730:G:C1'	2.91	0.54
1:AA:755:G:OP2	17:AR:65:ARG:HG2	2.07	0.54
1:AA:784:C:H2'	1:AA:785:G:O4'	2.08	0.54
1:AA:796:C:OP1	13:AN:123:LYS:HD3	2.07	0.54
1:AA:803:G:O2'	1:AA:804:U:H5'	2.07	0.54
1:AA:828:A:C2	1:AA:859:A:C1'	2.90	0.54
1:AA:872:A:O2'	1:AA:873:A:C3'	2.50	0.54
1:AA:985:C:C2	1:AA:1221:G:N2	2.76	0.54
2:AC:74:C:H6	2:AC:75:C:H5''	1.73	0.54
4:AE:57:PHE:CD1	4:AE:199:TYR:CE1	2.92	0.54
5:AF:201:TYR:CD1	5:AF:201:TYR:N	2.76	0.54
6:AG:3:ARG:NH1	6:AG:3:ARG:HG3	2.22	0.54
6:AG:78:LEU:HD22	6:AG:93:PHE:CD2	2.43	0.54
6:AG:83:SER:N	6:AG:89:THR:CG2	2.68	0.54
9:AJ:29:LYS:HD3	9:AJ:102:ARG:HA	1.90	0.54
9:AJ:134:ALA:O	9:AJ:136:LYS:N	2.41	0.54
9:AJ:136:LYS:O	9:AJ:140:ASP:OD1	2.26	0.54
9:AJ:150:ALA:HA	13:AN:59:TYR:CG	2.43	0.54
10:AK:63:LEU:CB	10:AK:65:TYR:OH	2.55	0.54
11:AL:113:LYS:H	11:AL:113:LYS:HD2	1.72	0.54
11:AL:117:HIS:C	11:AL:119:ALA:H	2.11	0.54
11:AL:42:ARG:O	11:AL:43:ALA:C	2.46	0.54
13:AN:48:ILE:CG1	13:AN:64:ALA:HB2	2.37	0.54
14:AO:117:ARG:NH2	14:AO:124:LYS:HA	2.23	0.54
15:AP:60:VAL:HA	15:AP:63:THR:CB	2.38	0.54
15:AP:86:CYS:O	15:AP:90:LEU:HD12	2.07	0.54
19:AT:22:LEU:HD11	19:AT:39:SER:OG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:18:TYR:CG	23:AX:24:ARG:HD3	2.43	0.54
23:AX:4:GLY:C	23:AX:6:ARG:N	2.50	0.54
50:B3:39:CYS:O	50:B3:40:HIS:CG	2.61	0.54
54:B7:50:LEU:O	54:B7:53:PRO:HD2	2.07	0.54
55:B8:20:HIS:O	55:B8:22:ARG:N	2.41	0.54
24:BA:1025:G:N3	24:BA:1026:U:OP1	2.41	0.54
24:BA:1179:C:C2'	24:BA:1180:C:H6	2.20	0.54
24:BA:1249:U:C6	24:BA:1249:U:O5'	2.61	0.54
24:BA:1394:U:H5''	24:BA:1604:C:OP1	2.06	0.54
24:BA:1560:G:H3'	24:BA:1561:G:N7	2.22	0.54
24:BA:1603:A:N1	24:BA:1604:C:C4	2.76	0.54
24:BA:1656:C:H2'	24:BA:1656:C:O2	2.06	0.54
24:BA:1669:A:C5'	24:BA:2550:G:OP1	2.56	0.54
24:BA:1799:G:C6	24:BA:1819:A:C8	2.95	0.54
24:BA:197:A:H3'	24:BA:198:C:H5	1.65	0.54
24:BA:1995:U:H3'	24:BA:1995:U:C6	2.43	0.54
24:BA:2025:C:H5'	34:BM:78:TYR:OH	2.06	0.54
24:BA:2329:G:H21	47:BZ:41:ARG:NH2	2.03	0.54
24:BA:2626:C:C2'	24:BA:2627:G:H8	2.08	0.54
24:BA:2639:A:C2'	24:BA:2639:A:N3	2.68	0.54
24:BA:2745:C:C2	24:BA:2746:U:C5	2.96	0.54
24:BA:2832:U:O2	24:BA:2832:U:C2'	2.50	0.54
24:BA:333:G:C2	24:BA:334:C:C5	2.95	0.54
24:BA:427:U:H2'	24:BA:428:A:O4'	2.08	0.54
24:BA:491:G:N2	24:BA:492:A:H1'	2.22	0.54
24:BA:52:A:C8	24:BA:117:G:N2	2.76	0.54
24:BA:616:A:O2'	24:BA:617:G:O4'	2.26	0.54
24:BA:650:C:N4	24:BA:651:G:N2	2.56	0.54
24:BA:711:G:N2	24:BA:712:G:H1'	2.21	0.54
24:BA:914:C:H5	24:BA:915:C:C5	2.26	0.54
25:BB:66:A:C5	25:BB:107:U:C4	2.95	0.54
25:BB:85:G:C4	25:BB:92:G:C2	2.96	0.54
27:BD:121:PRO:O	27:BD:122:ASP:HB3	2.06	0.54
27:BD:33:LEU:H	27:BD:33:LEU:CD2	2.06	0.54
28:BE:22:PRO:HA	28:BE:185:LYS:H	1.71	0.54
28:BE:1:MET:N	28:BE:2:LYS:HE3	2.23	0.54
28:BE:37:ARG:O	28:BE:38:THR:CB	2.56	0.54
29:BF:129:PHE:HE1	29:BF:162:LEU:HD13	1.73	0.54
29:BF:82:ILE:N	29:BF:82:ILE:CD1	2.71	0.54
30:BG:128:ARG:NH2	30:BG:130:ASN:HD21	2.06	0.54
30:BG:39:ILE:HG13	30:BG:157:ILE:CG1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:49:ASP:C	30:BG:70:VAL:HG13	2.28	0.54
30:BG:74:LYS:O	30:BG:75:LYS:CB	2.55	0.54
31:BH:139:GLN:O	31:BH:142:GLY:N	2.41	0.54
31:BH:61:HIS:O	31:BH:64:LEU:N	2.41	0.54
31:BH:67:LEU:O	31:BH:68:THR:C	2.45	0.54
31:BH:87:LEU:HD13	31:BH:162:ILE:HD11	1.90	0.54
31:BH:87:LEU:HD23	31:BH:88:LEU:N	2.22	0.54
33:BL:14:ALA:H	33:BL:53:VAL:HG21	1.73	0.54
36:BO:80:TYR:CE2	36:BO:85:LEU:HD11	2.43	0.54
36:BO:91:PHE:O	36:BO:95:VAL:HB	2.08	0.54
36:BO:99:LEU:HD13	36:BO:101:VAL:CG2	2.37	0.54
37:BP:26:TYR:H	37:BP:102:VAL:CB	2.19	0.54
38:BQ:75:LEU:O	38:BQ:78:LYS:N	2.40	0.54
38:BQ:84:ALA:HB3	38:BQ:85:PRO:CD	2.33	0.54
1:AA:1464:G:OP1	40:BS:112:ARG:NH1	2.41	0.54
40:BS:49:VAL:O	40:BS:50:ILE:HG23	2.08	0.54
42:BU:69:LYS:HG2	42:BU:70:ILE:H	1.72	0.54
43:BV:105:VAL:O	43:BV:105:VAL:HG13	2.08	0.54
45:BX:46:LYS:HZ1	45:BX:52:SER:HB2	1.72	0.54
46:BY:116:VAL:CG2	46:BY:180:VAL:O	2.55	0.54
3:AD:44:G:C6	3:AD:45:U:O2	2.60	0.54
3:AD:48:C:C2	3:AD:59:U:O2'	2.47	0.54
3:AD:47:U:N3	3:AD:50:G:OP1	2.40	0.54
24:BA:2134:A:OP2	24:BA:2134:A:N3	2.40	0.54
24:BA:2146:C:H2'	24:BA:2147:G:H5'	1.90	0.54
24:BA:2148:G:H2'	24:BA:2149:G:N7	2.23	0.54
26:BC:108:MET:CE	26:BC:131:LEU:HD23	2.37	0.54
24:BA:1581:G:C2'	24:BA:1582:C:C5'	2.85	0.54
32:BK:57:ARG:HD2	32:BK:61:ARG:NH2	2.19	0.54
24:BA:2094:G:C5	24:BA:2095:C:C5	2.95	0.54
24:BA:2341:G:C2'	24:BA:2342:C:C6	2.91	0.54
1:AA:1161:C:H6	1:AA:1161:C:OP2	1.90	0.54
43:BV:45:TYR:N	43:BV:45:TYR:HD2	2.06	0.54
1:AA:1103:C:O2'	4:AE:111:ARG:CD	2.46	0.54
1:AA:1193:G:C8	1:AA:1193:G:H3'	2.43	0.54
1:AA:1396:A:C2'	1:AA:1397:C:OP2	2.56	0.54
1:AA:183:G:O6	1:AA:194:C:N3	2.40	0.54
1:AA:197:A:C2'	1:AA:198:G:OP2	2.54	0.54
1:AA:375:U:H4'	18:AS:17:TYR:HE2	1.73	0.54
1:AA:422:C:OP2	1:AA:422:C:H6	1.89	0.54
1:AA:897:C:C2	1:AA:903:G:C2	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:945:G:C2	1:AA:946:A:N7	2.75	0.54
2:AC:1:C:H2'	2:AC:2:G:H8	1.73	0.54
2:AC:59:A:C6	2:AC:60:U:C4	2.96	0.54
2:AC:66:C:H2'	2:AC:67:C:C6	2.43	0.54
3:AD:1:G:O2'	3:AD:2:C:H5'	2.08	0.54
3:AD:73:A:H2'	3:AD:74:C:C5'	2.31	0.54
4:AE:19:HIS:CE1	4:AE:204:ASN:ND2	2.76	0.54
4:AE:69:LEU:CD1	4:AE:69:LEU:C	2.74	0.54
4:AE:84:GLU:HG2	4:AE:234:PRO:CD	2.23	0.54
7:AH:9:LYS:HD2	7:AH:111:GLU:OE1	2.08	0.54
7:AH:122:GLU:HB2	7:AH:126:ARG:HG3	1.89	0.54
1:AA:826:C:H5'	10:AK:12:ARG:HH21	1.73	0.54
1:AA:823:G:N2	10:AK:1:MET:H2	2.04	0.54
10:AK:89:PRO:CB	10:AK:92:ARG:HH21	2.19	0.54
10:AK:98:LYS:C	10:AK:100:ILE:HD12	2.29	0.54
11:AL:32:ASP:HB3	11:AL:35:GLU:HB2	1.89	0.54
13:AN:82:VAL:O	13:AN:108:ILE:HG23	2.07	0.54
14:AO:33:ARG:HB3	14:AO:85:ILE:HG21	1.89	0.54
15:AP:7:VAL:HG22	30:BG:115:ARG:NH2	2.22	0.54
17:AR:59:MET:O	17:AR:62:GLN:HB3	2.08	0.54
20:AU:77:GLY:O	20:AU:79:LEU:HD12	2.05	0.54
21:AV:32:LYS:HA	21:AV:50:ALA:CB	2.34	0.54
22:AW:13:LEU:O	22:AW:14:LYS:C	2.45	0.54
22:AW:21:LYS:O	22:AW:24:LEU:HB2	2.07	0.54
48:B1:25:ARG:HE	48:B1:28:MET:HE1	1.73	0.54
48:B1:27:LEU:CD2	48:B1:48:LEU:HB3	2.37	0.54
24:BA:78:A:OP1	48:B1:5:LEU:HD11	2.08	0.54
24:BA:988:A:N6	49:B2:13:ILE:CG1	2.71	0.54
50:B3:29:PRO:O	50:B3:30:GLU:CB	2.55	0.54
53:B6:34:ARG:O	53:B6:35:ARG:C	2.45	0.54
24:BA:650:C:OP1	54:B7:19:SER:OG	2.26	0.54
54:B7:21:LYS:HG2	54:B7:48:PHE:HE1	1.72	0.54
24:BA:650:C:P	54:B7:21:LYS:HZ1	2.30	0.54
54:B7:25:MET:O	54:B7:26:LYS:C	2.45	0.54
54:B7:23:VAL:HG22	54:B7:48:PHE:HB2	1.87	0.54
54:B7:60:LEU:HD11	54:B7:64:TYR:HB3	1.89	0.54
24:BA:1011:G:H5'	41:BT:75:ASN:ND2	2.23	0.54
24:BA:1196:C:C2	24:BA:1197:G:C8	2.96	0.54
24:BA:1298:C:O4'	24:BA:1302:A:N6	2.37	0.54
24:BA:1368:G:H2'	24:BA:1369:G:H8	1.73	0.54
24:BA:1542:G:H2'	24:BA:1543:A:C4	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1552:G:H4'	24:BA:1553:A:OP1	2.08	0.54
24:BA:1668:A:N3	24:BA:1669:A:N1	2.56	0.54
24:BA:1824:G:N3	24:BA:1825:A:H1'	2.22	0.54
24:BA:1831:G:H2'	24:BA:1832:C:C6	2.43	0.54
24:BA:1904:G:O2'	24:BA:1905:C:C5'	2.53	0.54
24:BA:1919:A:OP1	24:BA:1920:C:OP2	2.26	0.54
24:BA:1934:C:C4'	24:BA:1974:C:H4'	2.38	0.54
24:BA:2016:U:O5'	24:BA:2016:U:H6	1.90	0.54
24:BA:2226:C:O2	24:BA:2227:A:C1'	2.55	0.54
24:BA:234:C:O2'	24:BA:235:U:H5'	2.07	0.54
24:BA:806:C:O2'	24:BA:2445:G:O4'	2.26	0.54
24:BA:2536:G:C5	24:BA:2537:U:C5	2.96	0.54
24:BA:257:A:O5'	24:BA:257:A:C8	2.61	0.54
24:BA:2639:A:C6	24:BA:2640:G:H1'	2.43	0.54
24:BA:2685:G:C2	24:BA:2686:G:C8	2.96	0.54
24:BA:2714:G:C2'	24:BA:2715:C:H5'	2.38	0.54
24:BA:271(C):U:C5	24:BA:421:U:C4	2.96	0.54
24:BA:2778:A:H5''	24:BA:2779:U:OP2	2.08	0.54
24:BA:298:G:C8	24:BA:298:G:P	3.01	0.54
24:BA:467:G:H2'	24:BA:468:G:C5'	2.37	0.54
24:BA:459:U:C5	24:BA:469:G:N2	2.76	0.54
24:BA:495:G:C2'	24:BA:496:G:O5'	2.56	0.54
24:BA:541:C:H5''	24:BA:542:C:OP2	2.08	0.54
24:BA:71:A:C2	24:BA:73:A:C6	2.96	0.54
24:BA:800:A:O2'	24:BA:801:G:H5''	2.08	0.54
24:BA:83:G:N1	24:BA:102:G:O2'	2.30	0.54
25:BB:9:G:H2'	25:BB:9:G:N3	2.23	0.54
27:BD:147:LEU:HD23	27:BD:147:LEU:H	1.73	0.54
24:BA:2216:G:N2	27:BD:150:LYS:HZ3	2.06	0.54
27:BD:70:TRP:O	27:BD:73:VAL:HG13	2.08	0.54
28:BE:178:GLU:N	28:BE:178:GLU:CD	2.60	0.54
24:BA:618:G:OP1	29:BF:106:ARG:CD	2.56	0.54
29:BF:152:GLU:OE1	29:BF:191:ARG:HD2	2.07	0.54
29:BF:8:GLN:CB	29:BF:18:ARG:HG2	2.37	0.54
30:BG:55:LYS:NZ	30:BG:152:LEU:HD21	2.23	0.54
30:BG:83:ARG:CD	30:BG:83:ARG:H	2.20	0.54
31:BH:95:ARG:HB2	31:BH:111:HIS:CE1	2.42	0.54
31:BH:119:GLU:HA	31:BH:119:GLU:OE2	2.07	0.54
31:BH:119:GLU:C	31:BH:121:ILE:H	2.10	0.54
31:BH:89:ILE:CG2	31:BH:128:PRO:O	2.56	0.54
31:BH:74:ASN:OD1	31:BH:138:LYS:HE2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:98:LEU:HD22	31:BH:100:GLY:N	2.23	0.54
34:BM:53:VAL:HG22	34:BM:121:LYS:HB2	1.90	0.54
34:BM:27:ALA:HA	34:BM:30:ILE:HD13	1.90	0.54
34:BM:49:GLY:O	34:BM:50:ASP:C	2.46	0.54
34:BM:66:LYS:O	34:BM:67:LEU:HB2	2.06	0.54
34:BM:84:LYS:C	34:BM:85:ILE:HD12	2.27	0.54
35:BN:47:ILE:CG1	35:BN:50:GLY:HA3	2.38	0.54
35:BN:72:PRO:HG2	40:BS:84:GLN:HE22	1.72	0.54
37:BP:25:ASP:CA	37:BP:102:VAL:HG12	2.38	0.54
37:BP:68:ILE:CG2	37:BP:95:ALA:HB1	2.33	0.54
38:BQ:37:THR:HA	38:BQ:111:LEU:HD22	1.89	0.54
38:BQ:61:HIS:ND1	38:BQ:64:ARG:CZ	2.71	0.54
38:BQ:67:LEU:HD22	38:BQ:71:GLN:HA	1.88	0.54
38:BQ:97:VAL:HG13	38:BQ:114:VAL:CG2	2.38	0.54
39:BR:13:ARG:NH1	39:BR:94:TYR:CZ	2.75	0.54
39:BR:79:ALA:O	39:BR:82:ILE:N	2.41	0.54
1:AA:1431:C:C5'	40:BS:110:ILE:HG23	2.32	0.54
40:BS:11:GLU:HB3	40:BS:59:THR:HG23	1.89	0.54
40:BS:33:LYS:CB	40:BS:87:ASP:HB3	2.38	0.54
41:BT:105:VAL:CG1	41:BT:106:PHE:N	2.69	0.54
41:BT:98:LEU:CD1	41:BT:105:VAL:HG21	2.38	0.54
24:BA:535:C:O2'	41:BT:53:ARG:HD2	2.07	0.54
43:BV:8:ARG:CZ	43:BV:102:HIS:ND1	2.71	0.54
43:BV:90:ARG:NH2	43:BV:90:ARG:N	2.33	0.54
45:BX:1:MET:H2	45:BX:33:LYS:HZ1	1.54	0.54
45:BX:67:LEU:HD12	45:BX:71:LYS:NZ	2.23	0.54
46:BY:30:ASN:OD1	46:BY:33:LEU:CB	2.56	0.54
46:BY:41:LEU:O	46:BY:44:PHE:N	2.41	0.54
32:BK:128:LEU:HD13	32:BK:129:THR:HG22	1.90	0.54
32:BK:123:LEU:CD1	32:BK:145:VAL:HA	2.32	0.54
26:BC:100:ILE:HG21	26:BC:126:LYS:HB2	1.90	0.54
26:BC:64:LEU:HB2	26:BC:188:ASN:HD21	1.72	0.54
24:BA:2124:G:C2'	26:BC:217:THR:HG23	2.23	0.54
13:AN:125:PHE:CD1	13:AN:125:PHE:N	2.76	0.54
1:AA:1152:A:N1	1:AA:1153:C:C4	2.75	0.54
1:AA:1092:A:O4'	1:AA:1183:A:N6	2.41	0.54
1:AA:1191:A:H5''	5:AF:4:LYS:HD3	1.90	0.54
1:AA:1342:C:C1'	11:AL:124:GLN:HB2	2.38	0.54
1:AA:1475:G:C2	1:AA:1476:G:C8	2.95	0.54
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.37	0.54
1:AA:275:G:O2'	1:AA:276:G:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:374:A:C6	1:AA:375:U:C4	2.96	0.54
1:AA:394:G:H2'	1:AA:395:C:H6	1.73	0.54
1:AA:421:U:OP2	1:AA:422:C:H5	1.91	0.54
1:AA:581:G:H4'	17:AR:64:ARG:NH1	2.21	0.54
1:AA:668:G:O2'	1:AA:669:U:C5'	2.56	0.54
1:AA:775:G:C2	1:AA:776:G:N7	2.75	0.54
1:AA:90:C:O2'	1:AA:91:C:C5'	2.55	0.54
1:AA:964:A:H5'	1:AA:1199:U:OP1	2.08	0.54
3:AD:39:U:C2	3:AD:40:C:C5	2.96	0.54
4:AE:145:LEU:HD12	4:AE:149:LEU:CD1	2.37	0.54
5:AF:134:ILE:CD1	5:AF:134:ILE:N	2.70	0.54
5:AF:63:ASN:O	5:AF:64:VAL:CB	2.56	0.54
5:AF:38:ARG:HG3	5:AF:94:LEU:HD21	1.90	0.54
6:AG:57:ARG:HG3	6:AG:202:LEU:O	2.08	0.54
7:AH:12:LEU:HD22	7:AH:13:ILE:N	2.22	0.54
10:AK:33:GLU:HG2	10:AK:59:LEU:CD1	2.34	0.54
10:AK:79:VAL:O	10:AK:81:HIS:N	2.41	0.54
11:AL:50:LEU:HD23	11:AL:50:LEU:O	2.07	0.54
13:AN:79:SER:CA	13:AN:104:GLN:HG3	2.31	0.54
14:AO:27:LEU:CD2	14:AO:61:THR:O	2.55	0.54
15:AP:20:THR:CG2	15:AP:26:GLY:HA2	2.37	0.54
15:AP:15:VAL:CG1	15:AP:39:ILE:HD12	2.36	0.54
15:AP:54:VAL:CG1	15:AP:58:GLU:OE1	2.56	0.54
15:AP:66:LEU:CA	15:AP:70:LEU:HD12	2.38	0.54
15:AP:70:LEU:C	15:AP:70:LEU:HD23	2.28	0.54
15:AP:8:GLU:OE1	15:AP:10:PRO:HD3	2.08	0.54
1:AA:375:U:H4'	18:AS:17:TYR:CE2	2.43	0.54
18:AS:51:VAL:HG21	18:AS:73:LEU:CD1	2.38	0.54
1:AA:760:G:H2'	19:AT:103:GLY:CA	2.38	0.54
48:B1:13:PRO:O	48:B1:17:GLU:HG3	2.08	0.54
50:B3:35:VAL:HG12	50:B3:36:CYS:N	2.23	0.54
50:B3:6:HIS:ND1	50:B3:56:VAL:HA	2.22	0.54
52:B5:15:GLU:CA	52:B5:21:TYR:HA	2.19	0.54
24:BA:1061:U:H2'	24:BA:1061:U:O2	2.07	0.54
24:BA:1155:A:OP2	24:BA:1155:A:C8	2.54	0.54
24:BA:1223:C:C2	24:BA:1227:A:C2	2.96	0.54
24:BA:1311:G:C8	24:BA:1311:G:C3'	2.91	0.54
24:BA:1340:U:H2'	24:BA:1341:U:OP1	2.08	0.54
24:BA:1380:G:C2'	24:BA:1381:G:H5'	2.38	0.54
24:BA:1403:C:C2'	24:BA:1404:C:O5'	2.56	0.54
24:BA:1343:G:N2	24:BA:1405:U:C6	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1476:C:H6	24:BA:1477:A:N7	2.06	0.54
24:BA:1480:G:H2'	24:BA:1480:G:N3	2.22	0.54
24:BA:1517:G:N2	24:BA:1518:C:O2	2.41	0.54
24:BA:1542:G:C2'	24:BA:1543:A:C6	2.91	0.54
24:BA:1620:G:C2'	24:BA:1621:U:O5'	2.55	0.54
24:BA:1697:G:C4'	24:BA:1698:A:H5'	2.35	0.54
24:BA:1815:A:OP1	24:BA:1822:G:H4'	2.07	0.54
3:AD:71:G:H5''	24:BA:1892:C:O2'	2.08	0.54
24:BA:1935:G:N1	24:BA:1962:C:H2'	2.23	0.54
24:BA:1952:A:C4	24:BA:1953:A:C2	2.96	0.54
24:BA:1900:A:C2	24:BA:1970:A:N6	2.75	0.54
24:BA:2053:G:H2'	24:BA:2054:A:O5'	2.08	0.54
24:BA:2058:A:C2	24:BA:2059:A:C5	2.96	0.54
24:BA:215:G:H4'	24:BA:216:A:H4'	1.89	0.54
24:BA:2286:A:N1	52:B5:29:ASN:CG	2.61	0.54
24:BA:2305:A:H2'	30:BG:154:GLY:CA	2.37	0.54
24:BA:2531:A:C2	24:BA:2532:G:C8	2.95	0.54
24:BA:2559:C:H2'	24:BA:2560:C:H6	1.73	0.54
24:BA:270(B):A:C1'	24:BA:270(C):C:C5	2.91	0.54
24:BA:2717:G:H3'	24:BA:2717:G:P	2.48	0.54
24:BA:2731:G:H4'	28:BE:168:MET:SD	2.48	0.54
24:BA:2833:G:O4'	24:BA:2833:G:OP1	2.25	0.54
24:BA:404:C:C5'	24:BA:406:G:O4'	2.56	0.54
24:BA:543:C:C4	24:BA:551:G:N1	2.76	0.54
24:BA:611:C:O2	24:BA:612:G:H1'	2.08	0.54
24:BA:771:G:C4	24:BA:772:C:C5	2.96	0.54
24:BA:893:C:C2	24:BA:894:C:C5	2.96	0.54
24:BA:975:G:O6	24:BA:976:C:C5	2.60	0.54
24:BA:975:G:C6	24:BA:976:C:H6	2.23	0.54
27:BD:101:GLU:HG2	27:BD:102:LYS:H	1.72	0.54
27:BD:118:VAL:N	27:BD:129:ASN:ND2	2.54	0.54
27:BD:168:ARG:HG3	27:BD:173:VAL:CG1	2.31	0.54
24:BA:2224:G:C5'	27:BD:262:ARG:CZ	2.86	0.54
28:BE:58:ARG:HB2	28:BE:58:ARG:HH21	1.72	0.54
29:BF:131:GLY:CA	29:BF:138:GLU:HB2	2.28	0.54
30:BG:103:LEU:HD12	30:BG:103:LEU:O	2.07	0.54
30:BG:12:TYR:HA	30:BG:15:VAL:HG22	1.89	0.54
31:BH:167:GLU:O	31:BH:169:VAL:HG22	2.07	0.54
33:BL:23:VAL:HG12	33:BL:34:ILE:CG2	2.38	0.54
33:BL:72:PRO:CG	33:BL:77:LEU:HB2	2.38	0.54
34:BM:115:ARG:HG2	34:BM:118:LYS:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:55:VAL:HG12	34:BM:56:ASN:ND2	2.22	0.54
35:BN:97:ARG:O	35:BN:118:ALA:CB	2.56	0.54
35:BN:12:ASP:O	35:BN:94:ARG:NH2	2.40	0.54
35:BN:39:ILE:HD13	35:BN:59:LYS:O	2.07	0.54
24:BA:834:C:H5'	36:BO:49:ARG:CD	2.38	0.54
36:BO:95:VAL:HG12	36:BO:95:VAL:O	2.07	0.54
37:BP:61:GLY:C	46:BY:177:PRO:HB2	2.27	0.54
38:BQ:110:PRO:C	38:BQ:111:LEU:HD23	2.28	0.54
38:BQ:96:ARG:CZ	38:BQ:117:VAL:HG23	2.37	0.54
38:BQ:13:HIS:HD1	38:BQ:14:SER:N	2.05	0.54
38:BQ:5:LYS:HZ1	38:BQ:6:SER:N	2.04	0.54
40:BS:80:SER:CB	40:BS:81:PRO:CD	2.85	0.54
41:BT:33:ARG:C	41:BT:35:ALA:N	2.59	0.54
41:BT:9:VAL:O	41:BT:13:LYS:HG2	2.08	0.54
42:BU:67:GLY:CA	42:BU:94:LEU:HA	2.38	0.54
43:BV:11:ARG:NH2	43:BV:11:ARG:H	1.98	0.54
43:BV:46:PHE:O	43:BV:50:VAL:HG23	2.08	0.54
46:BY:95:PRO:HD2	46:BY:130:PRO:CA	2.37	0.54
46:BY:30:ASN:O	46:BY:31:ARG:C	2.46	0.54
46:BY:73:GLN:O	46:BY:74:VAL:CG2	2.56	0.54
24:BA:2353:G:H4'	47:BZ:32:ARG:NH2	2.23	0.54
32:BK:114:LEU:HD22	32:BK:130:TYR:CB	2.38	0.54
3:AD:18:G:C2'	3:AD:19:G:H4'	2.35	0.54
24:BA:2127:G:N2	24:BA:2128:C:C2	2.76	0.54
24:BA:2133:G:P	24:BA:2156:G:H1'	2.48	0.54
26:BC:68:LEU:CD1	26:BC:160:ARG:H	2.10	0.54
26:BC:186:ALA:O	26:BC:189:ILE:HB	2.08	0.54
26:BC:171:ILE:HD13	26:BC:192:PHE:HZ	1.73	0.54
26:BC:47:LEU:N	26:BC:47:LEU:CD2	2.71	0.54
26:BC:58:VAL:CG2	26:BC:201:PRO:HD3	2.36	0.54
24:BA:2186:G:C2	24:BA:2187:G:C5	2.96	0.54
1:AA:163:C:H2'	1:AA:164:U:O4'	2.07	0.54
1:AA:337:C:N4	1:AA:338:A:H62	2.05	0.54
1:AA:1100:C:OP1	4:AE:96:ARG:HG2	2.08	0.54
1:AA:1145:C:HO2'	1:AA:1146:A:H8	1.48	0.54
1:AA:1254:C:OP1	12:AM:45:ARG:CZ	2.56	0.54
1:AA:1233:G:O2'	1:AA:1365:G:OP1	2.22	0.54
1:AA:1407:C:H6	1:AA:1407:C:O5'	1.91	0.54
1:AA:1495:U:H2'	1:AA:1496:C:O5'	2.08	0.54
1:AA:625:G:N2	1:AA:626:U:C2	2.76	0.54
1:AA:684:A:H2	1:AA:706:A:N1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:813:U:H5''	1:AA:814:A:P	2.48	0.54
1:AA:850:U:H2'	1:AA:851:G:H8	1.73	0.54
1:AA:935:A:C6	1:AA:936:C:N4	2.76	0.54
2:AC:75:C:O5'	2:AC:76:A:OP2	2.25	0.54
5:AF:117:ALA:O	5:AF:121:ALA:HB2	2.07	0.54
5:AF:124:ILE:HG23	5:AF:130:VAL:CG2	2.38	0.54
5:AF:153:VAL:CG2	5:AF:166:GLU:HB3	2.37	0.54
5:AF:188:LEU:HD11	5:AF:190:ARG:CG	2.34	0.54
1:AA:1056:U:O2	5:AF:195:VAL:CG2	2.56	0.54
5:AF:57:ILE:HG12	5:AF:66:VAL:CG2	2.35	0.54
6:AG:80:GLU:O	6:AG:83:SER:N	2.41	0.54
7:AH:151:LEU:N	7:AH:151:LEU:CD2	2.71	0.54
8:AI:5:GLU:CB	8:AI:62:TRP:HE1	2.21	0.54
8:AI:76:ALA:C	8:AI:80:ARG:NE	2.62	0.54
8:AI:84:ASN:HA	8:AI:86:ARG:HH21	1.72	0.54
9:AJ:11:GLN:NE2	9:AJ:12:LEU:O	2.40	0.54
9:AJ:30:ILE:O	9:AJ:31:MET:O	2.26	0.54
10:AK:112:LEU:HD23	10:AK:112:LEU:C	2.28	0.54
11:AL:111:ARG:O	11:AL:113:LYS:NZ	2.37	0.54
11:AL:114:TYR:HD1	12:AM:60:ARG:NH1	2.06	0.54
13:AN:21:ILE:HD11	13:AN:82:VAL:HG11	1.89	0.54
15:AP:110:ARG:HG3	15:AP:111:LYS:N	2.21	0.54
15:AP:34:LEU:HD23	15:AP:39:ILE:CD1	2.37	0.54
16:AQ:51:GLY:C	16:AQ:53:LEU:H	2.11	0.54
17:AR:39:LEU:HD21	17:AR:56:LEU:HD13	1.90	0.54
21:AV:40:ILE:HG13	21:AV:69:HIS:O	2.08	0.54
54:B7:17:THR:O	54:B7:19:SER:N	2.32	0.54
54:B7:49:VAL:O	54:B7:53:PRO:CD	2.55	0.54
24:BA:1012:U:O4	34:BM:28:THR:HG23	2.07	0.54
24:BA:104:U:OP2	24:BA:105:C:C5	2.61	0.54
24:BA:1068:G:H5'	24:BA:1096:A:O2'	2.08	0.54
24:BA:1113:U:O5'	24:BA:1113:U:C6	2.58	0.54
24:BA:996:A:C6	24:BA:1160:G:N1	2.75	0.54
24:BA:1182:A:C6	24:BA:1183:G:O6	2.61	0.54
24:BA:1203:G:H5'	24:BA:1205:U:OP2	2.07	0.54
24:BA:1270:C:C6	24:BA:1270:C:OP2	2.56	0.54
24:BA:1351:C:C4	24:BA:1381:G:N1	2.76	0.54
24:BA:1433:U:H6	24:BA:1433:U:H3'	1.72	0.54
24:BA:1449(A):G:C6	24:BA:1450:C:N4	2.76	0.54
24:BA:1453:A:OP2	24:BA:1453:A:O4'	2.26	0.54
24:BA:145:G:C2	24:BA:146:G:C4	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:140:A:N6	24:BA:1596:A:H4'	2.18	0.54
24:BA:1809:A:O4'	24:BA:1810:A:C2	2.61	0.54
24:BA:1908:C:H42	24:BA:1923:U:H3	1.56	0.54
24:BA:1934:C:H5'	24:BA:1974:C:H4'	1.90	0.54
24:BA:2275:C:H4'	24:BA:2276:G:OP2	2.00	0.54
24:BA:2314:C:H2'	24:BA:2315:G:C8	2.42	0.54
24:BA:2332:U:H5'	24:BA:2336:A:H61	1.72	0.54
24:BA:2377:A:H2	39:BR:87:PHE:CZ	2.26	0.54
24:BA:239:U:O2'	24:BA:240:G:C5'	2.51	0.54
24:BA:1864:U:H4'	24:BA:2409:G:H22	1.73	0.54
24:BA:830:G:N3	24:BA:2448:A:N7	2.55	0.54
24:BA:2509:G:O2'	24:BA:2510:C:O4'	2.24	0.54
24:BA:2543:G:C5	24:BA:2544:G:C6	2.96	0.54
24:BA:2584:U:H1'	24:BA:2585:U:C5	2.43	0.54
24:BA:2595:G:H3'	24:BA:2595:G:C8	2.43	0.54
24:BA:2819:G:H3'	24:BA:2821:A:N6	2.23	0.54
24:BA:295:G:H2'	24:BA:338:G:H22	1.73	0.54
24:BA:297:C:C4	24:BA:298:G:N3	2.76	0.54
24:BA:306:U:H5	24:BA:307:G:C4	2.26	0.54
24:BA:324:A:N6	24:BA:339:U:O2	2.41	0.54
24:BA:327:G:H2'	24:BA:327:G:N3	2.23	0.54
24:BA:50:U:H2'	24:BA:51:G:OP1	2.07	0.54
24:BA:573:G:C2'	24:BA:574:C:O5'	2.56	0.54
24:BA:580:C:H2'	24:BA:581:C:C6	2.43	0.54
24:BA:650:C:N3	24:BA:651:G:N3	2.56	0.54
24:BA:60:G:N2	24:BA:68:G:C2	2.76	0.54
24:BA:725:G:N1	24:BA:726:G:C2	2.76	0.54
24:BA:815:C:O2'	24:BA:816:C:C5'	2.56	0.54
24:BA:917:A:C2	24:BA:2268:A:C6	2.96	0.54
24:BA:979:G:C3'	24:BA:980:A:C5'	2.82	0.54
27:BD:138:VAL:HA	27:BD:165:ILE:CG2	2.33	0.54
27:BD:147:LEU:HB2	27:BD:148:GLU:OE2	2.08	0.54
27:BD:208:LYS:HE3	27:BD:211:ARG:HG3	1.90	0.54
27:BD:9:TYR:HD1	27:BD:9:TYR:H	1.53	0.54
29:BF:22:ALA:HB1	29:BF:115:ALA:HB2	1.90	0.54
30:BG:138:GLN:HG2	30:BG:139:LEU:N	2.21	0.54
30:BG:21:ARG:O	30:BG:23:PHE:N	2.41	0.54
30:BG:19:LEU:HA	30:BG:22:ARG:NH2	2.23	0.54
30:BG:40:ASN:ND2	30:BG:41:GLN:N	2.56	0.54
30:BG:51:ARG:NH2	30:BG:51:ARG:N	2.56	0.54
31:BH:159:GLU:HG2	31:BH:160:LYS:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:44:VAL:HG22	31:BH:45:VAL:N	2.23	0.54
31:BH:76:VAL:O	31:BH:78:GLY:N	2.41	0.54
33:BL:79:ARG:HH11	33:BL:134:MET:HG3	1.73	0.54
34:BM:42:TRP:O	34:BM:43:THR:CB	2.56	0.54
35:BN:111:PHE:HD1	35:BN:111:PHE:C	2.10	0.54
35:BN:10:VAL:N	35:BN:17:ARG:CG	2.58	0.54
24:BA:1190:G:OP1	36:BO:31:ALA:O	2.26	0.54
36:BO:49:ARG:CG	36:BO:49:ARG:NH2	2.64	0.54
37:BP:104:PHE:O	37:BP:105:GLU:OE2	2.26	0.54
37:BP:37:LEU:CB	37:BP:129:THR:HA	2.36	0.54
38:BQ:96:ARG:HB2	38:BQ:117:VAL:HG23	1.89	0.54
38:BQ:52:ILE:O	38:BQ:55:ALA:HB3	2.08	0.54
38:BQ:55:ALA:HA	38:BQ:80:PHE:CE1	2.42	0.54
24:BA:2839:G:H21	38:BQ:91:GLN:HG3	1.73	0.54
39:BR:11:LYS:HA	39:BR:14:VAL:HG21	1.88	0.54
35:BN:77:ILE:HD11	40:BS:65:LYS:HZ3	1.73	0.54
41:BT:14:HIS:O	41:BT:17:ILE:N	2.41	0.54
41:BT:35:ALA:O	41:BT:36:ARG:C	2.46	0.54
41:BT:40:PHE:CD1	41:BT:40:PHE:N	2.76	0.54
41:BT:97:ASP:OD2	41:BT:101:ARG:NH2	2.41	0.54
42:BU:80:GLN:C	42:BU:82:ARG:H	2.11	0.54
44:BW:26:TYR:N	44:BW:26:TYR:CD1	2.76	0.54
44:BW:40:LYS:HZ1	44:BW:44:GLU:CD	2.11	0.54
44:BW:39:ILE:HG22	44:BW:54:VAL:HG21	1.88	0.54
24:BA:484:C:OP1	45:BX:48:ALA:HB1	2.08	0.54
45:BX:6:HIS:CD2	45:BX:71:LYS:HE2	2.43	0.54
46:BY:19:ARG:CG	46:BY:24:LEU:HG	2.34	0.54
47:BZ:17:GLN:NE2	47:BZ:18:ALA:N	2.47	0.54
47:BZ:47:PRO:HB3	47:BZ:51:VAL:O	2.08	0.54
32:BK:88:ILE:HD11	32:BK:123:LEU:HB2	1.86	0.54
3:AD:50:G:N2	3:AD:65:U:N1	2.56	0.54
24:BA:2171:A:O2'	24:BA:2172:U:OP1	2.22	0.54
26:BC:100:ILE:HG12	26:BC:123:VAL:HG13	1.89	0.54
26:BC:100:ILE:HG23	26:BC:127:LEU:CG	2.29	0.54
26:BC:103:ILE:HD13	26:BC:108:MET:SD	2.47	0.54
24:BA:2124:G:H4'	26:BC:42:GLU:CG	2.36	0.54
26:BC:73:ARG:HD2	26:BC:93:TYR:HE2	1.72	0.54
26:BC:82:LYS:HD2	26:BC:149:ILE:CG2	2.38	0.54
24:BA:1575:C:C4	24:BA:1576:U:C4	2.96	0.54
1:AA:1021:G:C2	1:AA:1022:G:H1'	2.43	0.54
1:AA:216:G:N2	1:AA:217:C:C2	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:524:G:H2'	1:AA:525:C:O4'	2.08	0.54
1:AA:1117:G:C2	1:AA:1184:G:C2	2.97	0.53
1:AA:1129:C:C1'	1:AA:1130:A:N7	2.71	0.53
1:AA:1346:A:C2	9:AJ:10:ARG:CD	2.90	0.53
1:AA:138:G:N2	1:AA:226:G:C1'	2.71	0.53
1:AA:290:C:H6	1:AA:290:C:O5'	1.91	0.53
1:AA:420:U:H1'	1:AA:424:G:N2	2.23	0.53
1:AA:601:C:C2	1:AA:602:A:C8	2.96	0.53
1:AA:601:C:H2'	1:AA:602:A:H8	1.73	0.53
1:AA:687:A:HO2'	1:AA:688:G:P	2.27	0.53
1:AA:688:G:H1'	1:AA:704:A:N1	2.22	0.53
1:AA:760:G:O2'	19:AT:103:GLY:HA3	2.07	0.53
1:AA:980:C:N3	1:AA:981:U:O2	2.40	0.53
2:AC:19:G:N3	2:AC:57:A:N3	2.55	0.53
4:AE:166:ASP:OD2	4:AE:167:PRO:HD2	2.09	0.53
4:AE:88:ALA:HB2	4:AE:219:VAL:CG1	2.38	0.53
5:AF:110:ASN:O	5:AF:141:VAL:HG13	2.07	0.53
5:AF:155:GLY:O	5:AF:196:LEU:HB2	2.08	0.53
5:AF:156:ARG:HB2	5:AF:196:LEU:CD1	2.33	0.53
5:AF:159:GLY:N	5:AF:193:TYR:CE1	2.76	0.53
5:AF:38:ARG:HB2	5:AF:94:LEU:CG	2.38	0.53
6:AG:148:VAL:O	6:AG:153:ARG:HD3	2.08	0.53
6:AG:61:LYS:HE3	6:AG:62:GLN:HA	1.91	0.53
7:AH:21:ALA:O	7:AH:25:ARG:NH2	2.40	0.53
9:AJ:87:VAL:HG13	9:AJ:152:ALA:HA	1.90	0.53
10:AK:103:VAL:HB	10:AK:108:GLY:C	2.27	0.53
10:AK:46:LYS:CD	10:AK:64:LYS:HA	2.38	0.53
10:AK:82:HIS:O	10:AK:137:VAL:CG1	2.56	0.53
15:AP:24:GLY:O	15:AP:29:ARG:NH1	2.41	0.53
18:AS:60:LEU:O	18:AS:61:SER:C	2.45	0.53
19:AT:41:LYS:O	19:AT:42:TYR:CD1	2.61	0.53
19:AT:75:ARG:NH1	19:AT:77:VAL:HA	2.23	0.53
1:AA:191(F):U:H3	22:AW:105:SER:HB2	1.72	0.53
22:AW:13:LEU:O	22:AW:16:HIS:CB	2.55	0.53
23:AX:6:ARG:O	23:AX:11:GLY:HA3	2.08	0.53
49:B2:6:VAL:CG1	49:B2:55:ARG:O	2.46	0.53
51:B4:15:ARG:C	51:B4:17:ASP:N	2.58	0.53
24:BA:2615:U:O4'	51:B4:7:PRO:CG	2.56	0.53
53:B6:5:TRP:CG	53:B6:6:GLN:N	2.73	0.53
55:B8:33:LYS:HB3	55:B8:35:ARG:NE	2.20	0.53
24:BA:1062:G:OP2	24:BA:1070:A:N3	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1127:A:C6	24:BA:2518:A:N3	2.76	0.53
24:BA:1364:G:C2	24:BA:1368:G:C5	2.96	0.53
24:BA:1378:A:O2'	24:BA:1379:A:P	2.67	0.53
24:BA:141:A:N1	24:BA:1596:A:O2'	2.25	0.53
24:BA:1491:G:OP1	24:BA:1492:G:OP2	2.25	0.53
24:BA:1605:C:C1'	24:BA:1610:A:C8	2.88	0.53
24:BA:1625:C:N4	24:BA:1626:G:H8	2.06	0.53
24:BA:1669:A:HO2'	24:BA:1670:C:P	2.31	0.53
24:BA:1717:G:N1	24:BA:1718:G:C2	2.76	0.53
24:BA:781:A:C2	24:BA:1776:G:N2	2.74	0.53
24:BA:1784:A:O2'	24:BA:1785:A:H8	1.90	0.53
24:BA:1861:G:H2'	24:BA:1861:G:N3	2.22	0.53
24:BA:2013:A:H2'	24:BA:2014:A:C8	2.43	0.53
24:BA:2075:U:H3	24:BA:2238:G:N2	2.06	0.53
24:BA:2205:C:C2'	24:BA:2206:C:H5'	2.37	0.53
24:BA:2207:C:H2'	24:BA:2208:U:C5'	2.39	0.53
24:BA:2285:C:C4'	24:BA:2288:A:C6	2.91	0.53
24:BA:2399:G:C2	52:B5:21:TYR:OH	2.61	0.53
24:BA:415:A:N6	24:BA:2409:G:O6	2.41	0.53
24:BA:2452:C:O2'	24:BA:2453:A:H5'	2.08	0.53
24:BA:2543:G:N7	24:BA:2544:G:C5	2.76	0.53
24:BA:2589:A:OP1	27:BD:226:MET:HG3	2.08	0.53
24:BA:2777:G:O5'	24:BA:2777:G:H8	1.91	0.53
24:BA:2862:G:C4	24:BA:2863:C:C5	2.96	0.53
24:BA:2879:C:H5'	24:BA:2880:C:OP1	2.08	0.53
24:BA:312:G:C4	24:BA:313:C:C5	2.96	0.53
24:BA:462:C:N3	24:BA:468:G:C2	2.76	0.53
24:BA:479:A:O2'	24:BA:480:A:H5'	2.08	0.53
24:BA:547:A:N7	24:BA:548:A:C5	2.76	0.53
24:BA:55:G:N2	24:BA:116:C:C2	2.76	0.53
24:BA:616:A:C4'	24:BA:617:G:OP1	2.53	0.53
24:BA:695:G:C6	24:BA:696:G:N7	2.76	0.53
24:BA:712:G:C2'	24:BA:713:G:H8	2.09	0.53
24:BA:861:A:C3'	24:BA:862:G:H5'	2.38	0.53
24:BA:980:A:C6	24:BA:1135:C:H4'	2.42	0.53
25:BB:81:G:C6	25:BB:96:G:C6	2.95	0.53
27:BD:143:HIS:C	27:BD:145:VAL:H	2.11	0.53
27:BD:175:LEU:HD13	27:BD:175:LEU:C	2.29	0.53
27:BD:229:VAL:HG22	27:BD:230:ASP:CG	2.28	0.53
27:BD:239:ARG:N	27:BD:239:ARG:CD	2.71	0.53
24:BA:2571:C:O2'	28:BE:146:THR:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:103:LYS:HA	29:BF:106:ARG:CD	2.37	0.53
29:BF:154:VAL:O	29:BF:174:VAL:CG1	2.48	0.53
29:BF:155:LEU:HB3	29:BF:157:VAL:HG13	1.88	0.53
30:BG:22:ARG:HH21	30:BG:22:ARG:CB	2.19	0.53
30:BG:30:GLU:OE1	30:BG:33:ARG:HG3	2.09	0.53
31:BH:154:PRO:O	31:BH:155:SER:CB	2.55	0.53
31:BH:161:GLY:HA3	31:BH:163:TYR:HE1	1.73	0.53
31:BH:29:PRO:HD3	31:BH:79:VAL:C	2.28	0.53
32:BK:43:ASN:N	32:BK:43:ASN:ND2	2.56	0.53
33:BL:103:GLN:HA	33:BL:106:GLU:CG	2.38	0.53
24:BA:1070:A:C2	33:BL:11:GLN:OE1	2.61	0.53
33:BL:77:LEU:C	33:BL:77:LEU:HD13	2.28	0.53
24:BA:1007:C:H4'	34:BM:108:PRO:CG	2.38	0.53
35:BN:5:GLN:CG	35:BN:20:MET:SD	2.95	0.53
35:BN:63:VAL:CG2	35:BN:81:ASP:HA	2.38	0.53
35:BN:11:ALA:HB1	35:BN:98:VAL:HG22	1.90	0.53
37:BP:58:PHE:CE1	37:BP:114:ALA:HA	2.39	0.53
37:BP:10:ARG:O	37:BP:11:LYS:O	2.25	0.53
37:BP:79:LEU:O	37:BP:80:GLU:HG3	2.07	0.53
39:BR:76:LYS:HG2	39:BR:77:ALA:N	2.22	0.53
41:BT:88:ILE:HG12	42:BU:52:VAL:HG13	1.89	0.53
41:BT:94:ASN:ND2	42:BU:6:LYS:NZ	2.56	0.53
42:BU:73:SER:HG	42:BU:75:PHE:HZ	1.51	0.53
45:BX:75:ILE:HG23	45:BX:100:ALA:CB	2.38	0.53
46:BY:16:SER:O	46:BY:17:ALA:C	2.46	0.53
26:BC:40:THR:O	26:BC:41:VAL:O	2.25	0.53
26:BC:68:LEU:HD13	26:BC:160:ARG:N	2.11	0.53
1:AA:1028(B):C:C4	1:AA:1032(B):G:C6	2.95	0.53
27:BD:273:ARG:NE	27:BD:274:ARG:N	2.56	0.53
1:AA:163:C:O2'	1:AA:164:U:H5'	2.07	0.53
8:AI:28:ARG:HH11	8:AI:28:ARG:HG2	1.72	0.53
25:BB:0:A:H5''	25:BB:0:A:N3	2.23	0.53
1:AA:1018:C:C2'	1:AA:1019:C:H5'	2.37	0.53
1:AA:1066:C:H5	1:AA:1067:A:N6	2.07	0.53
1:AA:1203:C:H6	1:AA:1203:C:O5'	1.92	0.53
1:AA:1266:G:H21	1:AA:1270:C:N4	2.06	0.53
1:AA:1320:C:H42	21:AV:36:ARG:NH1	2.05	0.53
1:AA:1405:G:O2'	1:AA:1519:A:H5'	2.07	0.53
1:AA:1419:G:O2'	1:AA:1420:C:O5'	2.27	0.53
1:AA:1472:U:H6	1:AA:1472:U:O5'	1.92	0.53
1:AA:20:U:C2'	1:AA:20:U:O2	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:38:G:N3	1:AA:397:A:C6	2.76	0.53
1:AA:476:G:O2'	1:AA:477:G:C5'	2.55	0.53
1:AA:652:U:C1'	1:AA:653:A:H2	2.16	0.53
1:AA:981:U:C2	1:AA:982:U:C4	2.96	0.53
2:AC:69:C:C2	2:AC:70:G:C8	2.96	0.53
5:AF:31:HIS:O	5:AF:34:LEU:HB3	2.09	0.53
5:AF:52:LEU:HA	5:AF:70:VAL:HG13	1.89	0.53
5:AF:91:LEU:CD2	5:AF:91:LEU:C	2.75	0.53
6:AG:102:ASP:O	6:AG:105:VAL:HB	2.07	0.53
7:AH:31:LEU:HD12	7:AH:129:ILE:HG12	1.90	0.53
8:AI:82:ARG:O	8:AI:84:ASN:N	2.42	0.53
10:AK:28:ALA:HB3	10:AK:57:PRO:O	2.08	0.53
11:AL:102:LEU:O	11:AL:103:THR:CB	2.57	0.53
11:AL:28:VAL:HG21	11:AL:32:ASP:O	2.08	0.53
1:AA:136:C:H1'	18:AS:1:MET:CE	2.38	0.53
18:AS:4:ILE:CG2	18:AS:21:VAL:CG1	2.86	0.53
19:AT:8:GLY:O	19:AT:56:VAL:HA	2.07	0.53
19:AT:86:GLU:OE1	19:AT:86:GLU:HA	2.00	0.53
19:AT:92:ARG:O	19:AT:95:TYR:N	2.40	0.53
21:AV:46:GLY:N	21:AV:62:ILE:HG23	2.22	0.53
1:AA:1320:C:C1'	21:AV:73:GLU:HG2	2.30	0.53
22:AW:50:GLU:HB2	22:AW:99:LEU:HD12	1.89	0.53
54:B7:24:ALA:O	54:B7:25:MET:C	2.47	0.53
54:B7:31:HIS:O	54:B7:32:LEU:CG	2.55	0.53
54:B7:31:HIS:O	54:B7:32:LEU:CD2	2.56	0.53
54:B7:7:HIS:O	54:B7:8:LYS:O	2.25	0.53
55:B8:20:HIS:N	55:B8:20:HIS:ND1	2.56	0.53
24:BA:1075:C:P	24:BA:1075:C:H3'	2.48	0.53
24:BA:10:G:H2'	24:BA:11:G:H8	1.72	0.53
24:BA:1203:G:O6	24:BA:1240:U:H2'	2.08	0.53
24:BA:122:G:C2	24:BA:130:C:C2	2.95	0.53
24:BA:585:G:N1	24:BA:1251:C:H5	2.04	0.53
24:BA:1376:C:H2'	24:BA:1377:G:O4'	2.09	0.53
24:BA:1388:G:C6	24:BA:1400:G:N1	2.76	0.53
24:BA:1454:U:C2'	24:BA:1454:U:O2	2.51	0.53
24:BA:1483:G:C4	24:BA:1507:A:C2	2.97	0.53
24:BA:149:A:C5	24:BA:150:C:C2	2.96	0.53
24:BA:1429:G:H1'	24:BA:1568:G:N3	2.24	0.53
24:BA:1569:A:H2'	24:BA:1570:A:C8	2.43	0.53
24:BA:1693:U:H5''	24:BA:1694:C:OP2	2.08	0.53
24:BA:1698:A:O2'	24:BA:1699:G:O5'	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1703:G:C2	24:BA:1704:G:H1'	2.43	0.53
24:BA:1769:G:O2'	24:BA:1770:G:H8	1.90	0.53
24:BA:1819:A:P	27:BD:157:ARG:HA	2.49	0.53
24:BA:1838:C:C6	24:BA:1899:G:C6	2.96	0.53
24:BA:1964:G:N3	24:BA:1967:C:H5	2.04	0.53
24:BA:563:G:C5	24:BA:2018:G:N1	2.76	0.53
24:BA:46:C:C6	24:BA:215:G:H8	2.26	0.53
24:BA:2281:C:OP2	24:BA:2281:C:H6	1.88	0.53
24:BA:2335:A:C6	24:BA:2337:G:C2	2.96	0.53
24:BA:2393:A:O3'	36:BO:57:THR:HA	2.07	0.53
24:BA:2450:A:C2'	24:BA:2451:A:O5'	2.56	0.53
24:BA:2459:A:OP2	24:BA:2460:U:O4	2.25	0.53
24:BA:2516:G:H2'	24:BA:2517:C:C6	2.43	0.53
24:BA:2627:G:C6	24:BA:2777:G:O6	2.61	0.53
24:BA:270:A:N1	24:BA:370:G:C1'	2.71	0.53
24:BA:2756:U:N3	24:BA:2758:A:C5	2.75	0.53
24:BA:2764:A:N7	24:BA:2766:G:C6	2.77	0.53
24:BA:2850:A:N3	24:BA:2851:A:C8	2.76	0.53
24:BA:2789:C:H1'	24:BA:2893:G:N2	2.23	0.53
24:BA:373:U:C2	24:BA:400:G:N2	2.76	0.53
24:BA:448:U:O2	24:BA:448:U:C2'	2.56	0.53
24:BA:507:A:O4'	24:BA:509:C:C2	2.62	0.53
24:BA:523:C:H2'	24:BA:524:U:H5'	1.90	0.53
24:BA:640:C:H42	24:BA:647:G:H1	1.51	0.53
24:BA:650:C:O2	24:BA:651:G:O4'	2.25	0.53
24:BA:666:G:OP1	36:BO:44:GLY:HA2	2.08	0.53
24:BA:696:G:O2'	24:BA:697:C:H5'	2.08	0.53
24:BA:702:G:C2'	24:BA:703:U:H5'	2.37	0.53
24:BA:685:A:C2	24:BA:774:A:N1	2.76	0.53
24:BA:817:C:H2'	24:BA:818:G:C8	2.44	0.53
24:BA:839:U:H1'	24:BA:1191:G:H1'	1.90	0.53
24:BA:849:A:C6	24:BA:931:G:N1	2.75	0.53
24:BA:915:C:H2'	24:BA:916:G:O4'	2.08	0.53
24:BA:99:U:H5'	24:BA:101:G:H5''	1.88	0.53
25:BB:45:A:H1'	30:BG:95:ARG:HH12	1.68	0.53
27:BD:53:PHE:HB2	27:BD:221:VAL:HG22	1.90	0.53
27:BD:181:GLU:CA	27:BD:270:ILE:HD12	2.38	0.53
28:BE:111:ARG:HB2	28:BE:161:GLY:HA2	1.90	0.53
24:BA:2787:C:O2'	28:BE:61:ARG:NH2	2.41	0.53
30:BG:74:LYS:HG2	30:BG:87:PRO:CG	2.38	0.53
30:BG:4:ASP:HA	30:BG:7:LEU:HD12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:105:LEU:O	31:BH:113:VAL:CG2	2.50	0.53
31:BH:124:GLU:HB3	31:BH:132:ARG:CZ	2.37	0.53
31:BH:85:LYS:HB2	31:BH:141:VAL:HG12	1.90	0.53
33:BL:54:PRO:CG	33:BL:73:PRO:HD3	2.33	0.53
33:BL:37:PHE:CD1	33:BL:57:ILE:HD12	2.42	0.53
34:BM:33:LEU:O	34:BM:35:ARG:N	2.32	0.53
34:BM:62:VAL:HG11	34:BM:66:LYS:HG3	1.89	0.53
35:BN:64:ARG:CG	35:BN:64:ARG:HH21	2.08	0.53
36:BO:92:GLU:C	36:BO:94:GLU:N	2.56	0.53
37:BP:62:GLY:HA2	46:BY:177:PRO:HB2	1.90	0.53
37:BP:75:THR:O	37:BP:77:LYS:NZ	2.36	0.53
37:BP:9:TYR:HD2	37:BP:9:TYR:N	2.05	0.53
38:BQ:104:ARG:HB3	38:BQ:104:ARG:CZ	2.38	0.53
38:BQ:32:GLY:CA	38:BQ:116:LEU:HG	2.36	0.53
38:BQ:63:ARG:HH12	38:BQ:80:PHE:HB3	1.73	0.53
38:BQ:73:VAL:O	38:BQ:76:VAL:N	2.41	0.53
39:BR:42:ASP:OD1	39:BR:44:LYS:HE2	2.07	0.53
40:BS:110:ILE:O	40:BS:114:LEU:HB3	2.08	0.53
41:BT:108:GLU:HB2	41:BT:111:GLU:OE1	2.09	0.53
24:BA:515:A:C5'	41:BT:32:PHE:HZ	2.21	0.53
42:BU:5:VAL:CG1	42:BU:38:LEU:O	2.55	0.53
42:BU:69:LYS:CE	42:BU:70:ILE:HD12	2.38	0.53
42:BU:20:LEU:HD22	42:BU:95:LEU:CD1	2.37	0.53
43:BV:33:ARG:HH12	43:BV:37:ARG:HB3	1.73	0.53
43:BV:84:ARG:O	43:BV:96:ILE:HD13	2.09	0.53
44:BW:7:VAL:CG1	44:BW:7:VAL:O	2.56	0.53
46:BY:157:LEU:HD22	46:BY:161:VAL:HG12	1.89	0.53
46:BY:177:PRO:CD	46:BY:178:GLU:H	2.20	0.53
32:BK:113:ARG:HA	32:BK:131:LYS:NZ	2.23	0.53
32:BK:69:LYS:CD	32:BK:70:LYS:HG3	2.38	0.53
3:AD:56:C:C2'	3:AD:57:G:O4'	2.56	0.53
3:AD:61:C:O2'	3:AD:62:C:C5'	2.56	0.53
26:BC:111:ASP:O	26:BC:136:LEU:HA	2.08	0.53
26:BC:129:ARG:HH11	26:BC:129:ARG:CG	2.21	0.53
24:BA:1587:A:C4	24:BA:1588:C:C5	2.96	0.53
24:BA:2101:G:H2'	24:BA:2102:U:O4'	2.08	0.53
24:BA:2182:G:N2	24:BA:2183:C:C2	2.77	0.53
24:BA:173:G:N2	24:BA:174:C:C2	2.76	0.53
24:BA:276:A:OP2	24:BA:276:A:O4'	2.26	0.53
1:AA:1064:G:N2	1:AA:1192:C:N3	2.55	0.53
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:946:A:N6	1:AA:1236:A:C6	2.77	0.53
1:AA:1299:A:N7	1:AA:1301:U:C6	2.76	0.53
1:AA:1320:C:H5'	21:AV:70:LYS:HD2	1.90	0.53
1:AA:1411:C:C2	1:AA:1412:C:C6	2.95	0.53
1:AA:1419:G:C2'	1:AA:1420:C:C6	2.92	0.53
1:AA:1425:U:O2	1:AA:1476:G:C2	2.61	0.53
1:AA:1533:C:C4'	1:AA:1534:A:OP1	2.56	0.53
1:AA:20:U:N3	1:AA:21:G:C5	2.76	0.53
1:AA:22:G:C2'	1:AA:23:C:C6	2.90	0.53
1:AA:318:G:C2'	1:AA:319:G:H5'	2.39	0.53
1:AA:476:G:H21	1:AA:477:G:H1'	1.72	0.53
1:AA:603:U:H2'	1:AA:604:G:H8	1.72	0.53
1:AA:607:A:H2'	1:AA:608:A:C5'	2.38	0.53
1:AA:939:G:C2	1:AA:940:C:C4	2.96	0.53
1:AA:966:G:C2'	1:AA:967:C:O5'	2.56	0.53
1:AA:9:G:C8	7:AH:126:ARG:NH1	2.76	0.53
2:AC:19:G:N3	2:AC:57:A:C2	2.76	0.53
2:AC:39:C:O2	2:AC:40:C:C5	2.62	0.53
2:AC:59:A:N6	2:AC:60:U:C4	2.76	0.53
3:AD:5:A:N1	3:AD:69:C:C4	2.76	0.53
4:AE:144:ARG:HD3	4:AE:148:TYR:CZ	2.43	0.53
5:AF:156:ARG:HB3	5:AF:193:TYR:CD1	2.40	0.53
5:AF:17:ASP:HB3	5:AF:18:TRP:CE3	2.43	0.53
6:AG:30:LYS:O	6:AG:31:CYS:HB3	2.07	0.53
7:AH:19:MET:HE3	7:AH:20:GLN:N	2.23	0.53
8:AI:83:ASP:O	8:AI:85:VAL:N	2.41	0.53
9:AJ:50:ILE:HD12	9:AJ:58:PRO:CB	2.36	0.53
9:AJ:75:VAL:CA	9:AJ:89:MET:HE1	2.32	0.53
10:AK:88:LYS:CB	10:AK:88:LYS:NZ	2.67	0.53
11:AL:3:GLN:HG3	11:AL:20:ARG:HD3	1.90	0.53
11:AL:5:TYR:CZ	11:AL:7:THR:OG1	2.61	0.53
11:AL:4:TYR:CD1	11:AL:88:TYR:HB2	2.43	0.53
1:AA:1254:C:OP1	12:AM:45:ARG:HD2	2.08	0.53
12:AM:50:ILE:HG12	12:AM:60:ARG:HD2	1.89	0.53
13:AN:15:ALA:CB	13:AN:78:GLN:HE22	2.20	0.53
13:AN:99:GLN:O	13:AN:105:VAL:CG2	2.56	0.53
14:AO:53:ARG:NH2	14:AO:92:ASP:OD2	2.41	0.53
17:AR:15:PHE:HB3	17:AR:26:GLU:HB3	1.90	0.53
17:AR:4:THR:CG2	17:AR:6:GLU:OE1	2.56	0.53
17:AR:54:ARG:HD3	17:AR:55:GLY:H	1.73	0.53
21:AV:53:ASN:HD21	21:AV:58:VAL:HG13	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:43:LEU:HD13	22:AW:51:GLU:CB	2.34	0.53
48:B1:12:SER:HB3	48:B1:13:PRO:CD	2.38	0.53
49:B2:4:LEU:HB3	49:B2:37:LEU:HD13	1.89	0.53
49:B2:7:LYS:HZ1	49:B2:32:GLN:C	2.12	0.53
52:B5:24:GLU:O	52:B5:25:LYS:HB3	2.08	0.53
24:BA:2287:A:C2	52:B5:37:ARG:NH2	2.73	0.53
53:B6:19:ARG:HB3	53:B6:23:ARG:CZ	2.38	0.53
53:B6:42:LEU:CB	53:B6:44:PRO:HG2	2.36	0.53
54:B7:40:GLU:C	54:B7:42:ARG:H	2.11	0.53
54:B7:58:ILE:HD12	54:B7:59:LYS:N	2.23	0.53
55:B8:11:CYS:HB3	55:B8:32:HIS:CG	2.44	0.53
24:BA:1013:C:O2'	24:BA:1014:U:H5'	2.08	0.53
24:BA:1102:C:C2'	24:BA:1102:C:O2	2.57	0.53
24:BA:1144:G:C4	24:BA:1145:C:C5	2.96	0.53
24:BA:128:C:H2'	24:BA:129:C:H6	1.70	0.53
24:BA:1307:A:O2'	24:BA:1308:A:H5'	2.09	0.53
24:BA:1312:U:C2	24:BA:1313:U:H1'	2.43	0.53
24:BA:1511:A:N1	24:BA:1512:G:N3	2.56	0.53
24:BA:1664:A:O3'	35:BN:66:LYS:HD3	2.09	0.53
24:BA:1674:G:H21	24:BA:1676:A:H61	1.56	0.53
24:BA:1726:G:C6	24:BA:1727:U:O4	2.61	0.53
24:BA:1824:G:N2	27:BD:253:GLN:HG2	2.22	0.53
24:BA:186:G:C4	24:BA:187:G:C8	2.97	0.53
24:BA:1907:G:C4	24:BA:1908:C:C5	2.96	0.53
24:BA:1919:A:P	24:BA:1920:C:OP2	2.65	0.53
24:BA:2035:G:OP2	24:BA:2036:C:N4	2.39	0.53
24:BA:216:A:C2	24:BA:217:G:C4	2.97	0.53
24:BA:2213:U:C3'	24:BA:2213:U:O2	2.56	0.53
24:BA:2308:G:C2'	24:BA:2309:A:OP2	2.56	0.53
24:BA:237:C:C2	24:BA:238:C:C5	2.96	0.53
24:BA:2393:A:H4'	36:BO:56:SER:H	1.73	0.53
24:BA:2432:A:C8	24:BA:2433:A:C8	2.96	0.53
24:BA:242:G:H2'	24:BA:254:G:O6	2.08	0.53
24:BA:2643:G:H2'	24:BA:2644:G:C8	2.42	0.53
24:BA:265:A:H2'	24:BA:266:G:H4'	1.89	0.53
24:BA:2795:G:HO2'	24:BA:2797:U:H5	1.56	0.53
24:BA:2838:G:C6	24:BA:2839:G:C5	2.97	0.53
24:BA:280:C:H3'	24:BA:283:A:OP2	2.08	0.53
24:BA:2849:U:H3	24:BA:2867:G:H1'	1.73	0.53
24:BA:352:G:C2	24:BA:353:G:O4'	2.62	0.53
24:BA:40:C:C2	24:BA:41:C:C5	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:433:C:H3'	24:BA:434:U:C6	2.43	0.53
24:BA:65:C:C2	24:BA:66:C:C5	2.96	0.53
24:BA:748:G:O6	43:BV:90:ARG:NH1	2.41	0.53
24:BA:852:G:C6	24:BA:853:G:N7	2.77	0.53
24:BA:957:A:N7	24:BA:959:A:C5	2.76	0.53
27:BD:186:HIS:O	27:BD:189:CYS:SG	2.66	0.53
27:BD:8:PRO:O	27:BD:25:THR:N	2.41	0.53
24:BA:1491:G:C4'	27:BD:99:ASP:HB2	2.38	0.53
28:BE:101:ARG:HH22	28:BE:171:GLU:CG	2.16	0.53
28:BE:118:LYS:CA	28:BE:118:LYS:NZ	2.71	0.53
24:BA:2620:C:H1'	28:BE:156:MET:HG2	1.90	0.53
28:BE:172:VAL:O	28:BE:174:ASP:N	2.42	0.53
28:BE:32:PRO:HB2	28:BE:35:GLN:HE22	1.74	0.53
28:BE:59:VAL:O	28:BE:63:LEU:HG	2.07	0.53
28:BE:5:LEU:HD22	28:BE:6:GLY:C	2.28	0.53
28:BE:8:LYS:HZ3	28:BE:192:ASN:HD22	1.55	0.53
29:BF:118:ALA:CA	29:BF:122:LYS:HB2	2.37	0.53
29:BF:149:ASP:O	29:BF:151:SER:N	2.41	0.53
30:BG:107:LEU:C	30:BG:107:LEU:CD1	2.76	0.53
30:BG:30:GLU:HB3	30:BG:162:THR:CB	2.38	0.53
30:BG:17:PRO:HA	30:BG:20:ILE:HB	1.89	0.53
30:BG:181:ARG:NH2	30:BG:181:ARG:H	2.06	0.53
30:BG:32:PRO:HG3	30:BG:163:ALA:HB2	1.90	0.53
30:BG:94:LEU:HG	30:BG:98:ARG:NH1	2.24	0.53
33:BL:38:VAL:O	33:BL:41:PHE:HB2	2.08	0.53
34:BM:107:LEU:HD13	34:BM:117:PHE:CD1	2.43	0.53
34:BM:120:LEU:O	34:BM:121:LYS:HG3	2.08	0.53
34:BM:67:LEU:C	34:BM:70:LYS:HZ3	2.11	0.53
34:BM:88:GLU:N	34:BM:89:LYS:NZ	2.55	0.53
35:BN:122:LEU:HD12	40:BS:71:GLY:CA	2.31	0.53
36:BO:111:ARG:NH2	36:BO:113:LYS:HB2	2.23	0.53
36:BO:123:LEU:HB2	36:BO:138:LEU:HA	1.89	0.53
36:BO:6:LEU:C	36:BO:7:ARG:HG3	2.29	0.53
36:BO:76:LYS:NZ	36:BO:112:LEU:CD2	2.70	0.53
36:BO:94:GLU:CD	36:BO:94:GLU:C	2.66	0.53
37:BP:25:ASP:HB2	37:BP:101:ARG:HB3	1.89	0.53
24:BA:2250:G:N7	37:BP:83:MET:O	2.42	0.53
39:BR:49:VAL:HG11	39:BR:80:LEU:HG	1.89	0.53
40:BS:6:LEU:N	40:BS:6:LEU:HD22	2.23	0.53
42:BU:22:VAL:HB	42:BU:24:LYS:HE2	1.91	0.53
43:BV:23:LEU:HD21	51:B4:25:LEU:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2010:G:P	43:BV:41:LYS:HZ3	2.30	0.53
43:BV:66:GLU:O	43:BV:69:LEU:HD13	2.08	0.53
44:BW:12:VAL:CG1	44:BW:27:THR:OG1	2.56	0.53
46:BY:26:GLY:O	46:BY:36:LYS:CG	2.57	0.53
47:BZ:24:LYS:N	47:BZ:38:VAL:HG12	2.22	0.53
26:BC:120:MET:HE1	26:BC:145:VAL:HG21	1.90	0.53
26:BC:181:PRO:HB2	26:BC:184:LYS:CG	2.39	0.53
24:BA:1580:A:O3'	24:BA:1581:G:O4'	2.25	0.53
32:BK:58:LEU:CB	32:BK:62:LYS:HZ2	2.21	0.53
24:BA:132:G:C5'	24:BA:133:C:OP2	2.56	0.53
1:AA:1022:G:N1	1:AA:1023:G:C5	2.76	0.53
1:AA:142:G:H2'	1:AA:143:A:C8	2.42	0.53
1:AA:1156:G:O2'	1:AA:1179:A:N6	2.40	0.53
1:AA:1201:A:O2'	1:AA:1202:G:OP2	2.25	0.53
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.07	0.53
1:AA:1224:G:N2	1:AA:1362(A):C:C2	2.71	0.53
1:AA:1224:G:C2'	1:AA:1225:A:OP1	2.56	0.53
1:AA:1250:A:C6	1:AA:1251:A:C6	2.96	0.53
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.25	0.53
1:AA:1300:G:O2'	1:AA:1301:U:P	2.65	0.53
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.09	0.53
1:AA:1518:A:N1	1:AA:1519:A:C6	2.77	0.53
1:AA:1536:C:N4	3:AD:35:A:N6	2.55	0.53
1:AA:250:A:O4'	1:AA:252:U:C6	2.62	0.53
1:AA:327:A:C2	1:AA:329:A:C4	2.97	0.53
1:AA:328:C:O2'	1:AA:329:A:P	2.67	0.53
1:AA:382:A:O2'	1:AA:383:A:C5'	2.56	0.53
1:AA:468:A:N7	1:AA:474:G:N7	2.57	0.53
1:AA:610:G:C2	1:AA:611:A:C8	2.96	0.53
1:AA:689:C:H2'	1:AA:690:G:O4'	2.09	0.53
1:AA:697:U:C6	1:AA:697:U:O5'	2.59	0.53
1:AA:701:C:O2'	1:AA:702:A:P	2.66	0.53
1:AA:686:U:H3	1:AA:704:A:H62	1.57	0.53
1:AA:786:G:N2	1:AA:787:A:H1'	2.22	0.53
1:AA:897:C:O2'	1:AA:898:G:H5'	2.08	0.53
1:AA:88:C:H2'	1:AA:89:U:OP2	2.08	0.53
1:AA:950:U:O4'	1:AA:971:G:N2	2.41	0.53
5:AF:108:ASN:HB3	5:AF:111:LEU:HD22	1.90	0.53
5:AF:57:ILE:HG23	5:AF:64:VAL:CG1	2.38	0.53
6:AG:126:ILE:O	6:AG:128:VAL:N	2.42	0.53
8:AI:97:PHE:HE2	20:AU:62:GLU:OE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:132:GLY:O	9:AJ:133:GLY:C	2.47	0.53
9:AJ:69:VAL:HG23	9:AJ:135:VAL:HG22	1.91	0.53
10:AK:35:ILE:CG2	10:AK:36:LEU:N	2.71	0.53
1:AA:1349:A:OP1	11:AL:118:LYS:HB3	2.07	0.53
11:AL:48:GLU:O	11:AL:51:ARG:N	2.41	0.53
12:AM:26:ALA:C	12:AM:28:ARG:H	2.11	0.53
13:AN:13:GLN:O	13:AN:14:VAL:HG23	2.08	0.53
13:AN:58:PRO:CA	13:AN:90:GLY:HA3	2.38	0.53
14:AO:30:ALA:HB1	14:AO:31:PRO:HD2	1.91	0.53
1:AA:1316:G:H5'	16:AQ:17:LYS:HZ2	1.72	0.53
16:AQ:27:CYS:C	16:AQ:40:CYS:SG	2.85	0.53
18:AS:22:THR:HG22	18:AS:32:TYR:CB	2.39	0.53
18:AS:69:THR:HG22	18:AS:72:ARG:NH1	2.23	0.53
19:AT:25:ARG:NH2	19:AT:40:LYS:HD2	2.23	0.53
1:AA:189:U:H3	19:AT:63:ARG:HB2	1.73	0.53
21:AV:43:GLU:OE2	21:AV:44:MET:HA	2.09	0.53
22:AW:58:LYS:O	22:AW:61:SER:OG	2.20	0.53
50:B3:39:CYS:C	50:B3:40:HIS:ND1	2.62	0.53
50:B3:59:PHE:O	50:B3:60:GLN:C	2.47	0.53
52:B5:23:THR:HG22	52:B5:24:GLU:H	1.73	0.53
53:B6:31:LEU:O	53:B6:35:ARG:HG3	2.08	0.53
24:BA:1093:G:H2'	24:BA:1094:U:C6	2.43	0.53
24:BA:1171:G:H2'	24:BA:1173:G:H4'	1.91	0.53
24:BA:1358:G:N7	24:BA:1371:G:C6	2.77	0.53
24:BA:1565:C:C5	24:BA:1567:A:C8	2.96	0.53
24:BA:701:G:H5'	24:BA:1632:A:O2'	2.07	0.53
24:BA:1669:A:N3	24:BA:1670:C:H5'	2.23	0.53
24:BA:16:G:C5'	51:B4:17:ASP:HB3	2.39	0.53
24:BA:1701:A:O2'	24:BA:1702:G:H5'	2.08	0.53
24:BA:1777:U:H2'	24:BA:1778:U:C5'	2.38	0.53
24:BA:178:G:C6	24:BA:179:G:N7	2.76	0.53
24:BA:1793:C:N4	24:BA:1825:A:N6	2.52	0.53
24:BA:1856:G:C6	24:BA:1857:G:H1'	2.43	0.53
24:BA:1919:A:OP2	24:BA:1920:C:H5	1.92	0.53
24:BA:191:A:H2'	24:BA:192:C:O4'	2.08	0.53
24:BA:1988:C:H2'	24:BA:1989:G:C5'	2.38	0.53
24:BA:2004:G:C5	24:BA:2005:A:C5	2.96	0.53
24:BA:2349:G:C2'	24:BA:2350:C:H5''	2.38	0.53
24:BA:2422:A:HO2'	24:BA:2424:C:H5	1.52	0.53
24:BA:2423:U:HO2'	24:BA:2425:A:H3'	1.74	0.53
24:BA:2447:G:O2'	24:BA:2448:A:P	2.65	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2543:G:C5	24:BA:2544:G:C5	2.96	0.53
24:BA:2546:U:H4'	24:BA:2565:A:N1	2.24	0.53
24:BA:2571:C:C2'	28:BE:146:THR:HG23	2.38	0.53
24:BA:2592:G:N7	24:BA:2593:U:C5	2.77	0.53
24:BA:2436:G:O2'	24:BA:2598:A:N1	2.42	0.53
24:BA:2610:C:O4'	24:BA:2610:C:O2	2.21	0.53
24:BA:2615:U:H2'	24:BA:2616:C:H6	1.74	0.53
24:BA:2666:C:C2'	24:BA:2667:C:H5'	2.39	0.53
24:BA:272:G:C6	24:BA:273:G:C5	2.95	0.53
24:BA:2848:G:H22	24:BA:2867:G:C1'	2.22	0.53
24:BA:2873:A:O2'	24:BA:2874:C:OP1	2.26	0.53
24:BA:108:U:H5''	24:BA:348:G:N2	2.23	0.53
24:BA:370:G:C2	24:BA:424:G:C8	2.96	0.53
24:BA:483:A:H1'	45:BX:45:VAL:O	2.07	0.53
24:BA:544:C:H2'	24:BA:545:G:H5'	1.88	0.53
24:BA:578:A:C2	24:BA:2018:G:C1'	2.91	0.53
24:BA:586:A:OP1	29:BF:89:VAL:HG23	2.08	0.53
24:BA:604:G:O2'	24:BA:605:C:O5'	2.26	0.53
24:BA:684:G:C1'	24:BA:687:C:N4	2.67	0.53
24:BA:693:C:O2'	24:BA:694:U:C5'	2.56	0.53
24:BA:731:C:H2'	24:BA:732:C:H5'	1.90	0.53
24:BA:804:A:H5''	24:BA:805:G:OP1	2.07	0.53
24:BA:808:G:H1'	24:BA:1254:A:O2'	2.08	0.53
24:BA:586:A:N1	24:BA:810:U:H5'	2.24	0.53
24:BA:815:C:C2'	24:BA:816:C:H5'	2.39	0.53
24:BA:87:C:C5'	24:BA:88:G:H5''	2.33	0.53
24:BA:974:G:N7	24:BA:974(A):C:N4	2.57	0.53
24:BA:994:C:C5'	24:BA:995:C:OP1	2.57	0.53
25:BB:100:G:C5	25:BB:101:A:N7	2.77	0.53
25:BB:27:C:H3'	25:BB:28:C:H6	1.68	0.53
27:BD:133:LEU:HD12	27:BD:187:GLY:CA	2.38	0.53
28:BE:144:ARG:HG2	28:BE:144:ARG:O	2.08	0.53
29:BF:128:ALA:O	29:BF:129:PHE:CB	2.49	0.53
30:BG:29:TRP:O	30:BG:31:VAL:HG23	2.07	0.53
30:BG:50:ALA:HA	30:BG:70:VAL:HG22	1.90	0.53
30:BG:78:SER:OG	30:BG:83:ARG:N	2.40	0.53
30:BG:8:LYS:O	30:BG:9:ARG:C	2.45	0.53
31:BH:145:ALA:O	31:BH:148:ILE:HG22	2.07	0.53
31:BH:77:LYS:NZ	31:BH:77:LYS:O	2.41	0.53
31:BH:88:LEU:HD23	31:BH:89:ILE:O	2.08	0.53
24:BA:1096:A:N6	33:BL:30:HIS:HD2	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:13:TRP:HB2	34:BM:136:GLU:CD	2.28	0.53
34:BM:26:LEU:CG	34:BM:30:ILE:HD11	2.31	0.53
34:BM:68:GLU:H	34:BM:70:LYS:CE	2.19	0.53
34:BM:95:PRO:HA	34:BM:98:VAL:HG23	1.90	0.53
35:BN:13:ASN:OD1	35:BN:52:VAL:CG1	2.56	0.53
35:BN:57:VAL:HG23	35:BN:59:LYS:HD2	1.90	0.53
35:BN:66:LYS:CG	35:BN:67:LYS:HE2	2.34	0.53
36:BO:97:PRO:HA	36:BO:102:ARG:NH1	2.22	0.53
36:BO:60:MET:O	36:BO:60:MET:SD	2.67	0.53
37:BP:110:THR:O	37:BP:111:GLU:CG	2.52	0.53
37:BP:22:LYS:CE	37:BP:23:GLY:N	2.70	0.53
37:BP:27:VAL:HG13	37:BP:104:PHE:CE2	2.43	0.53
37:BP:83:MET:HE3	37:BP:83:MET:O	2.07	0.53
38:BQ:62:ALA:O	38:BQ:66:VAL:HG23	2.08	0.53
41:BT:5:LYS:C	41:BT:7:GLY:N	2.62	0.53
42:BU:100:ARG:H	42:BU:100:ARG:HE	1.54	0.53
24:BA:1162:G:C5'	42:BU:23:GLU:O	2.56	0.53
45:BX:53:PRO:O	45:BX:54:LYS:C	2.47	0.53
46:BY:151:HIS:CG	46:BY:170:THR:HA	2.43	0.53
46:BY:90:VAL:C	46:BY:91:LEU:HD22	2.28	0.53
47:BZ:37:LEU:HG	47:BZ:59:LEU:C	2.27	0.53
25:BB:12:C:C3'	47:BZ:74:ARG:HG2	2.37	0.53
24:BA:2171:A:N3	24:BA:2172:U:H1'	2.24	0.53
26:BC:93:TYR:CD1	26:BC:109:ASP:HB2	2.44	0.53
26:BC:160:ARG:HH11	26:BC:160:ARG:HG2	1.73	0.53
26:BC:64:LEU:O	26:BC:65:PRO:O	2.25	0.53
26:BC:91:ALA:HB2	26:BC:153:ILE:CD1	2.39	0.53
24:BA:2105:C:N4	24:BA:2106:G:O6	2.41	0.53
25:BB:117:G:N3	25:BB:118:G:C8	2.76	0.53
1:AA:344:A:O2'	1:AA:345:C:OP1	2.27	0.53
1:AA:929:G:C6	1:AA:930:C:C4	2.97	0.53
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.57	0.53
1:AA:1148:U:O2	1:AA:1148:U:C2'	2.56	0.53
1:AA:1268:A:O2'	1:AA:1269:A:O5'	2.21	0.53
1:AA:134:A:C6	1:AA:135:C:C4	2.96	0.53
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.44	0.53
1:AA:1387:G:C4	1:AA:1388:C:C5	2.96	0.53
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.38	0.53
1:AA:1468:A:C8	1:AA:1469:G:C8	2.97	0.53
1:AA:1480:G:O2'	1:AA:1481:U:H5'	2.08	0.53
1:AA:265:G:C2'	1:AA:266:G:H5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:38:G:N2	1:AA:397:A:C5	2.77	0.53
1:AA:565:U:H2'	1:AA:566:G:N7	2.24	0.53
1:AA:619:U:H3	6:AG:135:LEU:CD2	2.06	0.53
1:AA:765:G:N2	1:AA:816:A:C2	2.76	0.53
1:AA:877:C:O3'	10:AK:88:LYS:HG2	2.08	0.53
1:AA:920:U:H2'	1:AA:921:U:C6	2.43	0.53
1:AA:965:A:H2'	1:AA:965:A:N3	2.23	0.53
1:AA:971:G:N2	1:AA:1363:A:OP2	2.42	0.53
2:AC:18:G:C2'	2:AC:19:G:O5'	2.56	0.53
4:AE:116:GLU:HG2	4:AE:117:GLU:N	2.22	0.53
4:AE:92:TYR:HE2	4:AE:151:GLY:HA2	1.72	0.53
5:AF:67:THR:HA	5:AF:102:ASN:HB2	1.91	0.53
5:AF:172:ARG:O	5:AF:173:VAL:HG22	2.08	0.53
5:AF:175:LEU:HD21	5:AF:201:TYR:CD2	2.43	0.53
5:AF:38:ARG:HB2	5:AF:94:LEU:HD21	1.90	0.53
7:AH:133:TYR:CD2	7:AH:136:MET:HG3	2.42	0.53
8:AI:10:LEU:O	8:AI:11:ASN:O	2.27	0.53
9:AJ:12:LEU:HD22	9:AJ:24:THR:HB	1.90	0.53
10:AK:27:PRO:O	10:AK:32:LYS:HD2	2.09	0.53
10:AK:46:LYS:NZ	10:AK:65:TYR:H	2.05	0.53
11:AL:97:LYS:HZ2	11:AL:102:LEU:HD22	1.72	0.53
11:AL:108:VAL:O	11:AL:110:GLU:N	2.30	0.53
11:AL:40:LEU:HB3	11:AL:42:ARG:HB2	1.90	0.53
15:AP:121:LYS:HE3	15:AP:121:LYS:CA	2.36	0.53
15:AP:3:ARG:HG3	15:AP:7:VAL:CA	2.38	0.53
15:AP:29:ARG:HA	15:AP:64:TRP:CH2	2.44	0.53
18:AS:36:ILE:HD13	18:AS:59:TRP:CD1	2.44	0.53
20:AU:58:LEU:HB3	20:AU:62:GLU:HG2	1.91	0.53
21:AV:45:VAL:HA	21:AV:67:VAL:CG2	2.38	0.53
22:AW:104:LEU:O	22:AW:105:SER:O	2.27	0.53
22:AW:12:ALA:C	22:AW:14:LYS:H	2.12	0.53
48:B1:47:ASP:O	48:B1:50:ARG:N	2.42	0.53
50:B3:44:THR:HG22	50:B3:45:GLY:N	2.24	0.53
54:B7:4:MET:HE1	54:B7:62:LEU:HD12	1.90	0.53
55:B8:2:LYS:CG	55:B8:35:ARG:HD3	2.39	0.53
24:BA:1024:G:N2	24:BA:1139:G:O6	2.42	0.53
24:BA:1057:A:O4'	24:BA:1084:A:N6	2.42	0.53
24:BA:1161:C:HO2'	24:BA:1162:G:H5'	1.73	0.53
24:BA:117:G:N3	24:BA:119:A:N6	2.55	0.53
24:BA:1691:C:O2	24:BA:1692:U:O4'	2.26	0.53
24:BA:1703:G:O2'	24:BA:1704:G:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1712:C:C3'	24:BA:1716:U:H6	2.20	0.53
24:BA:1756:G:H2'	24:BA:1757:U:OP2	2.08	0.53
24:BA:204:A:O2'	24:BA:205:G:OP2	2.25	0.53
24:BA:185:U:H5'	24:BA:217:G:N2	2.24	0.53
24:BA:2198:A:H2	24:BA:2225:A:N6	2.06	0.53
24:BA:2360:A:N7	24:BA:2361:A:C8	2.77	0.53
24:BA:2371:G:C2	24:BA:2372:G:C6	2.95	0.53
24:BA:2345:G:N2	24:BA:2381:C:C3'	2.71	0.53
24:BA:241:A:C2'	24:BA:241:A:N3	2.71	0.53
24:BA:2694:G:C6	24:BA:2695:C:C4	2.96	0.53
24:BA:2864:G:C2	24:BA:2865:U:C2	2.96	0.53
24:BA:312:G:N3	24:BA:313:C:C5	2.77	0.53
24:BA:300:A:H1'	24:BA:318:C:O2'	2.08	0.53
24:BA:359:A:O3'	24:BA:360:G:C8	2.62	0.53
24:BA:35:G:O4'	24:BA:454:A:C1'	2.55	0.53
24:BA:551:G:O4'	24:BA:1220:A:C2	2.62	0.53
24:BA:599:G:C2	24:BA:600:G:C8	2.97	0.53
24:BA:662:G:H2'	24:BA:663:G:H8	1.73	0.53
24:BA:662:G:N1	24:BA:663:G:O6	2.42	0.53
24:BA:729:G:OP1	27:BD:13:ARG:NH2	2.40	0.53
24:BA:770:G:H5'	53:B6:10:ARG:NH1	2.23	0.53
24:BA:791:C:N3	24:BA:794:G:O4'	2.41	0.53
24:BA:824:A:H2'	24:BA:825:C:C5	2.44	0.53
24:BA:827:U:H4'	24:BA:828:U:C2	2.44	0.53
24:BA:883:G:C2	24:BA:894:C:C2	2.96	0.53
24:BA:957:A:N6	24:BA:959:A:C5	2.76	0.53
25:BB:73:A:N6	25:BB:104:A:H1'	2.24	0.53
25:BB:9:G:C2	25:BB:10:C:C5	2.96	0.53
27:BD:119:ALA:CB	27:BD:130:ALA:O	2.56	0.53
27:BD:145:VAL:O	27:BD:154:LYS:HG2	2.09	0.53
27:BD:134:ARG:HD2	27:BD:188:GLU:HA	1.89	0.53
27:BD:7:LYS:CB	27:BD:27:THR:OG1	2.54	0.53
27:BD:60:ARG:HA	27:BD:62:TYR:CD2	2.44	0.53
28:BE:37:ARG:HA	28:BE:44:TYR:CD2	2.43	0.53
29:BF:126:VAL:HB	29:BF:197:ASP:OD1	2.08	0.53
30:BG:107:LEU:HD12	30:BG:108:ASN:CG	2.29	0.53
31:BH:37:VAL:CG2	31:BH:37:VAL:O	2.54	0.53
31:BH:96:ALA:HA	31:BH:105:LEU:CG	2.26	0.53
32:BK:35:LEU:N	32:BK:35:LEU:HD22	2.22	0.53
33:BL:138:VAL:O	33:BL:139:VAL:CG2	2.53	0.53
33:BL:17:ALA:CB	33:BL:42:ASN:HD21	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:52:ILE:CG1	33:BL:76:TYR:HB3	2.17	0.53
34:BM:123:TYR:C	34:BM:125:GLY:N	2.62	0.53
34:BM:57:ALA:HB1	34:BM:99:LEU:HD23	1.91	0.53
35:BN:23:ARG:HD2	35:BN:40:VAL:HG11	1.90	0.53
24:BA:1667:G:O5'	35:BN:7:TYR:CD1	2.62	0.53
35:BN:97:ARG:HE	35:BN:98:VAL:CG2	2.21	0.53
37:BP:8:LYS:NZ	37:BP:11:LYS:HE3	2.19	0.53
37:BP:131:ILE:C	37:BP:132:VAL:HG22	2.28	0.53
38:BQ:8:ARG:CG	38:BQ:10:LEU:HD21	2.29	0.53
40:BS:49:VAL:C	40:BS:50:ILE:HG12	2.29	0.53
41:BT:14:HIS:O	41:BT:15:LYS:C	2.46	0.53
42:BU:37:VAL:HG13	42:BU:37:VAL:O	2.07	0.53
43:BV:11:ARG:HH21	43:BV:11:ARG:HB3	1.74	0.53
43:BV:31:GLU:O	43:BV:35:ILE:HG22	2.09	0.53
43:BV:40:ASN:O	43:BV:41:LYS:CB	2.55	0.53
45:BX:12:THR:OG1	45:BX:72:VAL:CA	2.57	0.53
45:BX:83:THR:HB	45:BX:84:ARG:HH11	1.71	0.53
46:BY:105:VAL:O	46:BY:140:ASP:OD1	2.26	0.53
46:BY:6:LYS:HD2	46:BY:7:ALA:H	1.73	0.53
47:BZ:71:ASP:C	47:BZ:73:GLY:H	2.11	0.53
32:BK:127:VAL:HG13	32:BK:141:LYS:HA	1.89	0.53
26:BC:89:ALA:HB2	26:BC:154:ARG:NH1	2.24	0.53
32:BK:58:LEU:HB3	32:BK:62:LYS:HE3	1.90	0.53
24:BA:155:C:N3	24:BA:171:G:N1	2.56	0.53
27:BD:79:VAL:HG23	27:BD:115:GLN:O	2.08	0.53
1:AA:1058:G:C2'	1:AA:1059:C:H5'	2.38	0.53
1:AA:1113:C:C2	1:AA:1114:C:C6	2.97	0.53
1:AA:1159:U:C5'	1:AA:1160:G:OP1	2.57	0.53
1:AA:1286:A:H5'	23:AX:25:LYS:HG2	1.90	0.53
1:AA:130:A:N7	19:AT:64:PRO:HD2	2.24	0.53
1:AA:1315:U:OP2	21:AV:6:LYS:NZ	2.40	0.53
1:AA:1323:G:H4'	1:AA:1362(A):C:N3	2.23	0.53
1:AA:1419:G:C6	1:AA:1482:G:C2	2.96	0.53
1:AA:1529:G:C5'	1:AA:1530:G:OP2	2.55	0.53
1:AA:173:U:H4'	1:AA:197:A:C1'	2.39	0.53
1:AA:254:G:H2'	1:AA:255:G:H8	1.73	0.53
1:AA:458:C:N4	1:AA:464:G:N1	2.56	0.53
1:AA:539:A:N7	14:AO:115:LYS:NZ	2.54	0.53
1:AA:647:C:H2'	1:AA:648:A:H8	1.72	0.53
1:AA:675:A:C2'	1:AA:676:A:H8	2.21	0.53
1:AA:691:G:N7	13:AN:26:ASN:OD1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:707:C:H2'	1:AA:708:C:H5'	1.89	0.53
1:AA:954:G:C8	1:AA:955:U:C5	2.96	0.53
1:AA:960:U:O2	1:AA:960:U:H2'	2.08	0.53
1:AA:971:G:C8	1:AA:1365:G:H4'	2.44	0.53
2:AC:74:C:N4	47:BZ:4:LYS:NZ	2.57	0.53
2:AC:9:G:H5''	2:AC:10:G:OP2	2.09	0.53
4:AE:70:PHE:CE2	4:AE:163:PHE:CB	2.92	0.53
4:AE:198:ASP:O	4:AE:199:TYR:CD2	2.60	0.53
4:AE:221:LEU:HD13	4:AE:222:ILE:N	2.23	0.53
5:AF:31:HIS:ND1	5:AF:34:LEU:HD13	2.23	0.53
5:AF:42:LEU:HD23	5:AF:45:LYS:CD	2.39	0.53
6:AG:157:LEU:C	6:AG:159:ARG:N	2.59	0.53
6:AG:157:LEU:O	6:AG:158:ILE:C	2.46	0.53
7:AH:78:HIS:CB	10:AK:104:ARG:HB3	2.39	0.53
8:AI:14:LEU:CD1	8:AI:19:LEU:N	2.70	0.53
9:AJ:85:TYR:HB3	9:AJ:151:TYR:CD2	2.43	0.53
10:AK:12:ARG:CG	10:AK:26:VAL:HG23	2.38	0.53
10:AK:69:ARG:HH11	10:AK:69:ARG:HG3	1.74	0.53
12:AM:24:VAL:CG1	12:AM:34:VAL:HG11	2.37	0.53
13:AN:101:SER:OG	13:AN:103:LEU:HG	2.09	0.53
13:AN:26:ASN:ND2	13:AN:53:SER:HA	2.24	0.53
13:AN:18:ARG:NE	13:AN:34:ASP:O	2.39	0.53
15:AP:12:ASN:OD1	15:AP:12:ASN:O	2.26	0.53
15:AP:80:ARG:O	15:AP:84:ILE:HG12	2.09	0.53
17:AR:41:GLU:CA	17:AR:44:LYS:HE3	2.37	0.53
17:AR:48:LYS:HA	17:AR:50:HIS:CE1	2.43	0.53
17:AR:81:LEU:CD2	17:AR:85:LEU:HD13	2.38	0.53
49:B2:28:LEU:O	49:B2:29:ARG:HB2	2.08	0.53
49:B2:54:VAL:HG22	49:B2:55:ARG:H	1.73	0.53
50:B3:59:PHE:O	50:B3:61:ARG:N	2.41	0.53
50:B3:9:LEU:HD13	50:B3:11:PRO:CG	2.39	0.53
53:B6:30:VAL:HG22	53:B6:33:ARG:CZ	2.38	0.53
54:B7:15:LYS:H	54:B7:22:VAL:HG13	1.71	0.53
24:BA:1057:A:H2'	24:BA:1058:G:H8	1.74	0.53
24:BA:1063:G:N7	24:BA:1064:C:N4	2.57	0.53
24:BA:1203:G:C2	24:BA:1206:G:O6	2.62	0.53
24:BA:1344:G:N2	24:BA:1404:C:H1'	2.23	0.53
24:BA:137:C:O2'	24:BA:137(A):G:H5'	2.08	0.53
24:BA:141:A:C2	24:BA:1596:A:O2'	2.60	0.53
24:BA:1437:C:O2'	24:BA:1516:U:O2'	2.25	0.53
24:BA:1773:A:H62	24:BA:1829:A:H1'	1.69	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1861:G:C2	24:BA:1862:G:C8	2.97	0.53
24:BA:1949:G:C5	24:BA:1950:G:N7	2.76	0.53
24:BA:2091:U:H5''	24:BA:2093:G:OP1	2.08	0.53
24:BA:20:C:H2'	24:BA:21:A:H8	1.74	0.53
24:BA:2210:G:O2'	24:BA:2211:G:P	2.66	0.53
24:BA:2320:A:C2	24:BA:2333:A:C2	2.96	0.53
24:BA:265:A:C2	24:BA:281:G:C8	2.96	0.53
24:BA:2703:C:C2	24:BA:2704:C:C5	2.97	0.53
24:BA:270(J):G:C2	24:BA:270(K):C:C2	2.97	0.53
24:BA:2719:G:O5'	24:BA:2719:G:H8	1.92	0.53
24:BA:1455:G:H1'	24:BA:2853:C:OP1	2.07	0.53
24:BA:283:A:N1	24:BA:359:A:H5'	2.24	0.53
24:BA:393:C:O2'	24:BA:394:A:H5'	2.09	0.53
24:BA:510:C:H2'	24:BA:511:U:O4'	2.08	0.53
24:BA:28:A:C1'	24:BA:513:A:C6	2.92	0.53
24:BA:546:C:H2'	24:BA:547:A:O4'	2.08	0.53
24:BA:556:G:H21	34:BM:45:ASN:ND2	2.07	0.53
24:BA:905:U:OP1	37:BP:141:GLN:HG3	2.09	0.53
24:BA:943:U:H2'	24:BA:944:G:OP1	2.08	0.53
24:BA:94:G:N2	24:BA:95:G:N3	2.57	0.53
24:BA:988:A:O3'	49:B2:10:LYS:HE3	2.09	0.53
27:BD:96:HIS:CD2	27:BD:102:LYS:HE2	2.43	0.53
27:BD:124:PRO:C	27:BD:126:GLN:N	2.60	0.53
24:BA:1790:C:O3'	27:BD:213:ARG:NE	2.42	0.53
27:BD:232:PRO:CD	27:BD:247:ALA:HA	2.39	0.53
28:BE:104:VAL:O	28:BE:105:THR:HB	2.07	0.53
28:BE:81:ILE:HG23	28:BE:82:ARG:HG2	1.91	0.53
29:BF:168:ARG:O	29:BF:173:VAL:CG1	2.56	0.53
29:BF:45:ARG:HD3	29:BF:97:TYR:HD1	1.63	0.53
29:BF:62:ARG:HG3	29:BF:63:LYS:HE2	1.91	0.53
30:BG:39:ILE:CG1	30:BG:157:ILE:HG13	2.38	0.53
30:BG:36:LYS:HE3	30:BG:95:ARG:CD	2.38	0.53
30:BG:75:LYS:HG3	30:BG:87:PRO:CG	2.39	0.53
30:BG:90:LEU:O	30:BG:90:LEU:CD1	2.54	0.53
31:BH:51:ARG:NE	31:BH:51:ARG:CA	2.53	0.53
34:BM:107:LEU:HD11	34:BM:116:LEU:HB3	1.89	0.53
34:BM:16:ILE:HB	34:BM:54:VAL:CB	2.25	0.53
34:BM:33:LEU:HD13	34:BM:34:LEU:HG	1.90	0.53
35:BN:10:VAL:CG1	35:BN:11:ALA:H	2.01	0.53
36:BO:130:PHE:HB2	36:BO:135:LEU:CD1	2.39	0.53
36:BO:130:PHE:HB3	36:BO:135:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:518:G:H4'	43:BV:18:ARG:NH1	2.24	0.53
45:BX:31:LEU:HB3	45:BX:32:PRO:HD3	1.90	0.53
45:BX:52:SER:O	45:BX:53:PRO:O	2.27	0.53
45:BX:72:VAL:C	45:BX:73:ARG:HG3	2.29	0.53
46:BY:122:ARG:HB2	46:BY:171:ILE:HD13	1.91	0.53
46:BY:80:ARG:O	46:BY:81:ARG:HB2	2.08	0.53
46:BY:77:ASP:HB2	46:BY:84:GLU:CG	2.38	0.53
26:BC:111:ASP:OD1	26:BC:136:LEU:HD21	2.08	0.53
24:BA:1498:C:C1'	24:BA:1576:U:H4'	2.38	0.53
24:BA:718:A:H3'	24:BA:719:C:C6	2.39	0.53
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.24	0.53
1:AA:1117:G:C5'	1:AA:1118:C:OP2	2.52	0.53
1:AA:1272:G:H2'	1:AA:1273:G:C8	2.44	0.53
1:AA:1326:C:H5''	23:AX:12:LYS:NZ	2.22	0.53
1:AA:1404:C:C1'	1:AA:1499:A:H2	2.12	0.53
1:AA:178:C:C2	1:AA:179:A:C8	2.97	0.53
1:AA:310:G:OP2	18:AS:27:LYS:HE2	2.09	0.53
1:AA:315:A:N1	1:AA:330:C:C6	2.77	0.53
1:AA:357:G:OP1	1:AA:367:U:H2'	2.08	0.53
1:AA:429:U:H1'	1:AA:430:A:H5''	1.91	0.53
1:AA:467:G:H2'	1:AA:468:A:H8	1.74	0.53
1:AA:482:A:H2'	1:AA:483:C:O5'	2.09	0.53
1:AA:843:U:H2'	1:AA:848:C:OP1	2.09	0.53
1:AA:922:G:C2	1:AA:923:A:C4	2.96	0.53
1:AA:926:G:N2	1:AA:1505:G:C4	2.77	0.53
1:AA:966:G:N7	1:AA:967:C:C4	2.76	0.53
4:AE:170:GLU:CG	4:AE:174:VAL:HG23	2.39	0.53
4:AE:179:LYS:C	4:AE:181:PHE:N	2.62	0.53
4:AE:96:ARG:O	4:AE:98:LEU:HD22	2.09	0.53
5:AF:131:ARG:O	5:AF:132:ARG:C	2.46	0.53
5:AF:138:VAL:CG1	5:AF:149:ALA:HB3	2.35	0.53
5:AF:20:SER:HB2	5:AF:40:ARG:HH12	1.73	0.53
5:AF:65:ALA:O	5:AF:66:VAL:HB	2.07	0.53
6:AG:11:LEU:O	6:AG:12:CYS:C	2.47	0.53
6:AG:137:SER:OG	6:AG:138:TYR:N	2.40	0.53
6:AG:83:SER:HA	6:AG:89:THR:HG1	1.67	0.53
7:AH:79:GLU:C	7:AH:80:ILE:HG13	2.29	0.53
9:AJ:143:ARG:HA	9:AJ:146:GLU:OE1	2.09	0.53
9:AJ:149:ARG:HB3	13:AN:59:TYR:CE2	2.43	0.53
10:AK:111:ILE:HG22	10:AK:134:ILE:HD12	1.91	0.53
10:AK:17:THR:HG22	10:AK:18:ARG:NH1	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1344:C:C4'	11:AL:120:ARG:HB3	2.34	0.53
11:AL:66:ARG:HG2	11:AL:67:GLY:N	2.21	0.53
12:AM:36:GLY:O	12:AM:38:ILE:N	2.41	0.53
1:AA:780:A:OP1	13:AN:122:LYS:HA	2.08	0.53
13:AN:29:ILE:HA	13:AN:44:SER:OG	2.08	0.53
13:AN:62:GLN:OE1	13:AN:63:LEU:CA	2.56	0.53
13:AN:71:LYS:O	13:AN:74:ALA:HB3	2.07	0.53
1:AA:1360:A:H62	16:AQ:18:VAL:HG12	1.74	0.53
18:AS:35:LYS:NZ	18:AS:37:GLY:N	2.56	0.53
18:AS:5:ARG:HH12	18:AS:24:ALA:CA	2.15	0.53
19:AT:7:THR:HG23	19:AT:8:GLY:N	2.24	0.53
1:AA:1243:C:OP2	23:AX:10:ARG:NE	2.42	0.53
49:B2:28:LEU:HD23	49:B2:28:LEU:N	2.24	0.53
49:B2:26:LEU:HG	49:B2:47:VAL:CG2	2.39	0.53
50:B3:58:ARG:CD	50:B3:59:PHE:CE2	2.91	0.53
51:B4:11:THR:OG1	51:B4:14:ALA:HB3	2.08	0.53
53:B6:8:ASN:C	53:B6:8:ASN:ND2	2.62	0.53
54:B7:30:ARG:HH21	54:B7:43:GLN:N	2.04	0.53
24:BA:1077:A:H1'	33:BL:91:PRO:HG2	1.90	0.53
24:BA:1131:G:H2'	24:BA:2026:C:OP1	2.08	0.53
24:BA:1154:G:O5'	24:BA:1154:G:H8	1.92	0.53
24:BA:1170:G:N3	24:BA:1170:G:H2'	2.23	0.53
24:BA:551:G:O5'	24:BA:1220:A:H2	1.90	0.53
24:BA:1250:G:HO2'	24:BA:1251:C:P	2.31	0.53
24:BA:1288:U:C4'	24:BA:1289:C:OP2	2.56	0.53
24:BA:1554:A:O2'	24:BA:1555:G:OP1	2.25	0.53
24:BA:1605:C:H1'	24:BA:1610:A:N7	2.22	0.53
24:BA:1965:C:H3'	24:BA:1966:A:N7	2.22	0.53
24:BA:570:G:C2	24:BA:2030:A:C2	2.97	0.53
24:BA:573:G:O6	24:BA:2030:A:H2'	2.09	0.53
24:BA:184:C:HO2'	24:BA:217:G:H21	1.54	0.53
24:BA:2255:G:O4'	47:BZ:7:LEU:HD21	2.09	0.53
24:BA:2278:A:OP1	37:BP:14:ARG:CG	2.57	0.53
24:BA:2408:U:O2'	24:BA:2409:G:C5'	2.56	0.53
24:BA:2392:A:N1	24:BA:2429:G:C4	2.77	0.53
3:AD:76:A:C4	24:BA:2432:A:C4	2.97	0.53
24:BA:242:G:O2'	24:BA:243:U:H6	1.92	0.53
24:BA:2535:G:N3	24:BA:2535:G:H2'	2.23	0.53
24:BA:2567:G:C6	24:BA:2568:C:N4	2.77	0.53
24:BA:270(H):C:O2'	24:BA:270(I):G:H5'	2.07	0.53
24:BA:2712:U:C2'	24:BA:2712(A):A:C5'	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2776:A:C8	24:BA:2781:A:N7	2.76	0.53
24:BA:2787:C:H1'	28:BE:61:ARG:NE	2.24	0.53
24:BA:2880:C:C2	24:BA:2881:C:C5	2.97	0.53
24:BA:2830:G:H21	24:BA:2883:A:H2	1.49	0.53
24:BA:417:C:C2'	24:BA:418:G:H5'	2.39	0.53
24:BA:619:G:N7	24:BA:620:G:C2	2.77	0.53
24:BA:650:C:H42	24:BA:651:G:N2	2.06	0.53
24:BA:687:C:H3'	24:BA:688:U:C6	2.43	0.53
24:BA:885:C:N4	24:BA:889:C:C1'	2.72	0.53
24:BA:903:C:C2	24:BA:904:C:C5	2.97	0.53
24:BA:943:U:H3'	24:BA:943:U:C6	2.44	0.53
24:BA:978:G:O6	24:BA:979:G:N1	2.42	0.53
27:BD:135:PHE:CD1	27:BD:135:PHE:N	2.77	0.53
27:BD:148:GLU:HB2	27:BD:151:LYS:HD2	1.91	0.53
27:BD:8:PRO:HD2	27:BD:25:THR:C	2.29	0.53
28:BE:100:GLU:O	28:BE:172:VAL:CG2	2.54	0.53
28:BE:103:ASP:O	28:BE:104:VAL:CG2	2.55	0.53
28:BE:15:PHE:CG	28:BE:16:ARG:N	2.76	0.53
29:BF:167:ALA:O	29:BF:175:THR:HB	2.08	0.53
24:BA:674:G:O3'	29:BF:74:ARG:CZ	2.57	0.53
30:BG:97:ASP:O	30:BG:100:TRP:N	2.42	0.53
30:BG:125:PHE:HE2	30:BG:127:GLY:O	1.91	0.53
30:BG:107:LEU:CD1	30:BG:177:GLY:O	2.47	0.53
30:BG:57:ALA:CA	30:BG:68:PRO:N	2.70	0.53
31:BH:106:THR:HG22	31:BH:107:VAL:N	2.23	0.53
31:BH:126:PRO:HD2	31:BH:132:ARG:NH2	2.24	0.53
31:BH:52:VAL:HG22	31:BH:65:HIS:HD1	1.73	0.53
31:BH:85:LYS:CD	31:BH:145:ALA:CB	2.75	0.53
33:BL:78:ILE:HD12	33:BL:127:ILE:HG23	1.88	0.53
33:BL:12:LEU:HD22	33:BL:23:VAL:HG23	1.91	0.53
33:BL:10:LEU:CD1	33:BL:27:LEU:HD21	2.36	0.53
33:BL:48:MET:HG3	33:BL:48:MET:O	2.09	0.53
35:BN:85:VAL:CG1	35:BN:93:PRO:HG3	2.31	0.53
36:BO:46:LYS:CB	36:BO:49:ARG:HB3	2.39	0.53
38:BQ:17:ARG:CG	38:BQ:18:LEU:HD22	2.39	0.53
40:BS:68:TYR:CD1	40:BS:69:GLY:N	2.77	0.53
41:BT:92:ARG:C	41:BT:93:LYS:NZ	2.60	0.53
24:BA:1161:C:O2'	42:BU:22:VAL:CG1	2.57	0.53
42:BU:25:LEU:HD23	42:BU:28:GLU:HB2	1.90	0.53
41:BT:47:TYR:CE2	42:BU:76:LYS:N	2.77	0.53
42:BU:93:GLU:HG3	42:BU:95:LEU:HD23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:456:C:H41	44:BW:68:ARG:HB3	1.74	0.53
44:BW:73:ARG:HH21	44:BW:76:ARG:HB2	1.72	0.53
44:BW:50:LYS:HE2	44:BW:87:GLN:HB2	1.90	0.53
44:BW:92:LEU:N	44:BW:92:LEU:CD1	2.46	0.53
46:BY:109:ALA:O	46:BY:145:GLU:HG3	2.09	0.53
46:BY:50:GLN:CB	46:BY:53:ILE:HB	2.35	0.53
47:BZ:36:ILE:C	47:BZ:37:LEU:HD23	2.29	0.53
47:BZ:53:MET:SD	47:BZ:59:LEU:HD23	2.48	0.53
24:BA:2174:C:C2	24:BA:2175:C:C6	2.95	0.53
26:BC:175:VAL:HA	26:BC:188:ASN:OD1	2.08	0.53
24:BA:163:U:C5	24:BA:163:U:OP2	2.62	0.53
24:BA:171:G:N2	24:BA:172:C:N3	2.56	0.53
24:BA:173:G:N2	24:BA:174:C:N1	2.56	0.53
55:B8:13:LYS:HZ2	55:B8:13:LYS:HA	1.74	0.53
24:BA:1766:U:O2'	24:BA:1767:C:H5'	2.08	0.53
1:AA:920:U:C4'	1:AA:1080:A:H62	2.20	0.53
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.92	0.53
1:AA:1528:U:N3	1:AA:1530:G:C8	2.76	0.53
1:AA:186(D):C:H6	1:AA:186(D):C:O5'	1.92	0.53
1:AA:241:C:C2	1:AA:242:C:C5	2.97	0.53
1:AA:428:G:H4'	1:AA:429:U:O5'	2.09	0.53
1:AA:497:U:O2'	1:AA:498:A:H5'	2.09	0.53
1:AA:520:A:H62	1:AA:529:G:H21	1.57	0.53
1:AA:711:G:O2'	1:AA:712:A:H5'	2.09	0.53
1:AA:816:A:H2'	1:AA:817:C:OP2	2.08	0.53
4:AE:136:VAL:O	4:AE:139:LYS:CG	2.56	0.53
4:AE:150:SER:O	4:AE:151:GLY:O	2.27	0.53
4:AE:16:HIS:HE1	4:AE:209:ARG:HH11	1.57	0.53
4:AE:39:ILE:O	4:AE:41:ILE:HD12	2.09	0.53
11:AL:45:ALA:O	11:AL:78:LYS:HG3	2.09	0.53
11:AL:47:LEU:HD12	11:AL:51:ARG:NH2	2.24	0.53
12:AM:32:ALA:HA	12:AM:76:ASN:ND2	2.13	0.53
12:AM:24:VAL:HG13	12:AM:34:VAL:CB	2.38	0.53
13:AN:69:ALA:O	13:AN:72:ALA:N	2.42	0.53
14:AO:7:ILE:O	14:AO:10:LEU:HB2	2.08	0.53
14:AO:68:ALA:CA	14:AO:98:TYR:O	2.57	0.53
14:AO:93:LEU:HD12	14:AO:96:VAL:HG11	1.91	0.53
15:AP:108:ARG:HH11	15:AP:108:ARG:CB	2.22	0.53
20:AU:53:ARG:HH12	20:AU:60:GLY:HA2	1.73	0.53
20:AU:76:LEU:H	20:AU:76:LEU:HD23	1.72	0.53
21:AV:70:LYS:O	21:AV:71:LEU:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:27:LYS:O	22:AW:30:LYS:N	2.42	0.53
22:AW:73:HIS:O	22:AW:76:ALA:HB3	2.09	0.53
49:B2:5:LYS:NZ	49:B2:57:GLU:CB	2.72	0.53
53:B6:24:THR:HG23	53:B6:27:GLY:CA	2.36	0.53
24:BA:592:G:O2'	54:B7:2:PRO:C	2.47	0.53
54:B7:23:VAL:HG23	54:B7:48:PHE:HB2	1.89	0.53
24:BA:1035:U:H2'	24:BA:1036:G:H8	1.73	0.53
24:BA:1100:C:H2'	24:BA:1101:U:H6	1.72	0.53
24:BA:1105:U:H2'	24:BA:1106:G:C8	2.44	0.53
24:BA:1143:A:O2'	24:BA:1144:G:H8	1.90	0.53
24:BA:1188:U:C2	24:BA:1189:A:H8	2.26	0.53
24:BA:1212:G:H1'	24:BA:1237:A:H61	1.71	0.53
24:BA:1243:G:N1	24:BA:1244:G:C4	2.77	0.53
24:BA:1275:A:HO2'	24:BA:1276:A:P	2.30	0.53
24:BA:1288:U:O2	24:BA:1327:C:C4	2.62	0.53
24:BA:1270:C:O2	24:BA:1325:G:N7	2.41	0.53
24:BA:1672:C:O2	24:BA:2582:G:O4'	2.26	0.53
24:BA:1764:G:O2'	24:BA:1765:C:O5'	2.26	0.53
24:BA:1918:A:OP2	24:BA:1918:A:O4'	2.26	0.53
24:BA:1944:U:C1'	24:BA:1955:U:C6	2.92	0.53
24:BA:1954:G:O2'	24:BA:1955:U:C5'	2.57	0.53
24:BA:2212:A:HO2'	24:BA:2213:U:H5	1.57	0.53
24:BA:2306:C:C5	24:BA:2311:A:C6	2.97	0.53
24:BA:2403:C:N4	24:BA:2415:G:N1	2.57	0.53
24:BA:2067:G:N2	24:BA:2444:G:C4	2.77	0.53
24:BA:2493:U:C5'	24:BA:2493:U:C6	2.87	0.53
24:BA:2605:U:H2'	24:BA:2606:C:H5'	1.91	0.53
24:BA:2623:G:C5'	24:BA:2826:A:H1'	2.38	0.53
24:BA:2690:C:C6	24:BA:2690:C:O5'	2.62	0.53
24:BA:309:G:H3'	24:BA:310:A:O4'	2.08	0.53
24:BA:414:C:H1'	24:BA:1864:U:C1'	2.34	0.53
24:BA:271(C):U:H5	24:BA:421:U:C4	2.26	0.53
24:BA:49:A:C5	24:BA:177:G:C6	2.97	0.53
24:BA:476:G:O4'	24:BA:505:A:C2	2.62	0.53
24:BA:532:A:C8	41:BT:45:TYR:HE2	2.26	0.53
24:BA:541:C:C3'	24:BA:542:C:H6	2.22	0.53
24:BA:556:G:OP2	24:BA:556:G:C8	2.62	0.53
24:BA:568:U:C4	24:BA:571:A:OP2	2.62	0.53
24:BA:853:G:C2'	24:BA:854:G:H8	2.12	0.53
24:BA:894:C:H2'	24:BA:895:U:H6	1.68	0.53
24:BA:934:G:C6	24:BA:935:C:C5	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1775:U:C6	27:BD:208:LYS:NZ	2.77	0.53
27:BD:248:SER:HB3	27:BD:249:PRO:CD	2.38	0.53
27:BD:33:LEU:CD1	27:BD:61:LEU:HD21	2.38	0.53
27:BD:42:GLY:HA3	27:BD:60:ARG:NH2	2.23	0.53
27:BD:63:ARG:CG	27:BD:64:ILE:H	2.21	0.53
24:BA:1657:C:OP2	28:BE:136:ARG:NH2	2.41	0.53
29:BF:39:TRP:CG	29:BF:101:LEU:HB3	2.44	0.53
29:BF:160:ASN:C	29:BF:162:LEU:N	2.61	0.53
29:BF:154:VAL:CA	29:BF:191:ARG:O	2.57	0.53
29:BF:21:ALA:O	29:BF:22:ALA:HB3	2.08	0.53
33:BL:55:VAL:HG13	33:BL:69:THR:HA	1.91	0.53
34:BM:127:ASP:C	34:BM:129:PRO:CD	2.76	0.53
34:BM:74:ARG:HG2	34:BM:76:SER:HB2	1.91	0.53
35:BN:13:ASN:OD1	35:BN:13:ASN:C	2.47	0.53
36:BO:112:LEU:C	36:BO:129:ALA:HB3	2.29	0.53
36:BO:14:LYS:O	36:BO:15:ARG:O	2.27	0.53
37:BP:54:MET:HE2	37:BP:118:LEU:HD23	1.90	0.53
39:BR:106:ARG:CD	39:BR:107:GLU:OE2	2.54	0.53
39:BR:19:LYS:O	39:BR:20:ARG:O	2.27	0.53
39:BR:68:GLN:HA	39:BR:71:ARG:HD2	1.90	0.53
40:BS:102:ILE:HG22	40:BS:104:ASN:ND2	2.24	0.53
24:BA:533:G:OP1	41:BT:25:TRP:HB2	2.08	0.53
24:BA:1154:G:H5"	41:BT:58:ARG:HD2	1.90	0.53
42:BU:6:LYS:CE	42:BU:10:LYS:O	2.57	0.53
42:BU:28:GLU:N	42:BU:29:PRO:CD	2.71	0.53
43:BV:18:ARG:NH2	43:BV:76:VAL:HG12	2.24	0.53
43:BV:82:LEU:HD13	43:BV:83:LYS:N	2.24	0.53
44:BW:25:LYS:C	44:BW:26:TYR:CD1	2.82	0.53
45:BX:32:PRO:O	45:BX:34:LYS:N	2.42	0.53
45:BX:82:PRO:HG2	45:BX:83:THR:N	2.23	0.53
47:BZ:36:ILE:CG1	47:BZ:37:LEU:N	2.64	0.53
47:BZ:72:ARG:NH1	47:BZ:75:LEU:HD11	2.24	0.53
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CE1	2.43	0.53
26:BC:62:VAL:HG13	26:BC:64:LEU:HG	1.91	0.53
27:BD:79:VAL:HG23	27:BD:115:GLN:HG3	1.90	0.53
1:AA:1197:G:OP1	1:AA:1198:G:OP2	2.26	0.53
1:AA:1346:A:C8	1:AA:1348:U:C2	2.97	0.53
1:AA:230:G:N2	1:AA:231:G:N3	2.57	0.53
1:AA:485:G:O2'	1:AA:486:U:C6	2.62	0.53
1:AA:498:A:C4'	1:AA:500:G:OP1	2.54	0.53
1:AA:55:A:N6	1:AA:357:G:O2'	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:671:G:P	8:AI:77:ARG:HH21	2.32	0.53
1:AA:706:A:N3	1:AA:707:C:C6	2.77	0.53
1:AA:858:G:H22	1:AA:869:G:C2'	2.22	0.53
1:AA:872:A:C5	1:AA:874:G:N7	2.77	0.53
1:AA:890:G:O2'	1:AA:891:U:C6	2.62	0.53
1:AA:978:A:H8	1:AA:980:C:H41	1.57	0.53
2:AC:18:G:C6	2:AC:57:A:C6	2.97	0.53
2:AC:22:G:H2'	2:AC:23:C:C6	2.38	0.53
6:AG:60:GLU:HG2	6:AG:203:VAL:HG23	1.91	0.53
7:AH:109:ILE:HG21	7:AH:135:THR:HG22	1.91	0.53
7:AH:11:ILE:O	7:AH:13:ILE:HG13	2.08	0.53
1:AA:1377:A:N3	9:AJ:7:ALA:HB1	2.23	0.53
11:AL:9:ARG:CG	11:AL:14:VAL:HA	2.39	0.53
12:AM:23:ILE:CG1	12:AM:85:LEU:HD23	2.38	0.53
13:AN:28:THR:CG2	13:AN:29:ILE:N	2.72	0.53
14:AO:101:VAL:O	14:AO:104:VAL:CG2	2.56	0.53
15:AP:15:VAL:CG2	15:AP:39:ILE:HD12	2.39	0.53
15:AP:58:GLU:HA	15:AP:61:GLU:CB	2.39	0.53
15:AP:4:ILE:CD1	15:AP:8:GLU:O	2.56	0.53
12:AM:64:GLU:CG	16:AQ:59:ALA:HB2	2.37	0.53
16:AQ:9:LYS:HZ3	16:AQ:12:ARG:HE	1.57	0.53
20:AU:34:TYR:HE1	20:AU:35:ARG:NE	2.06	0.53
20:AU:36:ASN:O	20:AU:36:ASN:OD1	2.27	0.53
20:AU:72:ARG:HA	20:AU:75:ILE:CG1	2.38	0.53
22:AW:64:ASP:O	22:AW:67:ALA:CA	2.57	0.53
51:B4:35:GLU:CG	51:B4:49:CYS:HB3	2.39	0.53
53:B6:41:ARG:CZ	53:B6:41:ARG:CB	2.87	0.53
24:BA:1025:G:C2	24:BA:1026:U:OP1	2.61	0.53
24:BA:1174:A:N6	24:BA:1177:A:C2	2.77	0.53
24:BA:1199:U:C2	24:BA:1200:C:C5	2.97	0.53
24:BA:1275:A:N7	24:BA:1296:G:H1'	2.24	0.53
24:BA:140:A:H61	24:BA:1596:A:C4'	2.20	0.53
24:BA:1457:A:O2'	24:BA:1458:C:H5'	2.09	0.53
24:BA:1471:A:C8	24:BA:1519:G:O6	2.62	0.53
24:BA:1516:U:H2'	24:BA:1517:G:N7	2.23	0.53
24:BA:1558:A:C1'	24:BA:1559:G:N7	2.67	0.53
24:BA:1773:A:C4	24:BA:1774:C:O2	2.62	0.53
24:BA:191:A:C2	24:BA:192:C:C6	2.96	0.53
24:BA:193:U:H4'	24:BA:803:U:O4'	2.08	0.53
24:BA:1995:U:C4	24:BA:1996:C:N4	2.77	0.53
24:BA:2000:G:OP2	38:BQ:2:ARG:CG	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2244:U:C2'	24:BA:2245:U:O5'	2.57	0.53
24:BA:2268:A:C3'	24:BA:2269:A:C5'	2.78	0.53
24:BA:2311:A:H3'	24:BA:2312:U:H6	1.73	0.53
24:BA:2392:A:C8	24:BA:2393:A:O4'	2.62	0.53
24:BA:240:G:OP1	24:BA:623:G:H5'	2.09	0.53
24:BA:2431:U:O2'	24:BA:2432:A:H8	1.91	0.53
24:BA:2467:C:O2'	24:BA:2468:G:H5'	2.09	0.53
24:BA:2655:G:C2'	24:BA:2655:G:N3	2.72	0.53
24:BA:2687:U:C2	24:BA:2688:U:C6	2.97	0.53
24:BA:270:A:C2'	24:BA:270(A):A:O5'	2.55	0.53
24:BA:280:C:C5	24:BA:283:A:N7	2.76	0.53
24:BA:2824:C:C4	24:BA:2825:C:C2	2.97	0.53
24:BA:2881:C:C2	24:BA:2882:A:C8	2.97	0.53
24:BA:293:U:H2'	24:BA:294:A:C8	2.44	0.53
24:BA:336:C:C2'	24:BA:337:C:C5'	2.76	0.53
24:BA:411:G:N2	24:BA:415:A:H61	2.07	0.53
24:BA:489:G:C2	24:BA:491:G:C4	2.97	0.53
24:BA:13:A:N7	24:BA:525:U:O4	2.41	0.53
24:BA:565:C:N3	24:BA:566:U:N3	2.57	0.53
24:BA:639:U:O4	24:BA:648:G:O6	2.27	0.53
24:BA:760:G:C2	24:BA:761:A:H1'	2.44	0.53
24:BA:779:U:O2'	24:BA:780:G:H5'	2.07	0.53
24:BA:793:A:C2'	24:BA:794:G:OP2	2.56	0.53
24:BA:805:G:H1'	24:BA:831:G:O2'	2.09	0.53
24:BA:930:U:H6	24:BA:930:U:H3'	1.74	0.53
25:BB:32:C:O2	25:BB:32:C:H2'	2.09	0.53
27:BD:161:THR:O	27:BD:162:SER:HB3	2.09	0.53
27:BD:176:ARG:HA	27:BD:181:GLU:O	2.08	0.53
24:BA:2596:U:O2'	27:BD:242:ARG:HD2	2.08	0.53
27:BD:7:LYS:CE	27:BD:91:ARG:HD2	2.37	0.53
28:BE:107:THR:HG22	28:BE:108:SER:N	2.24	0.53
28:BE:151:TYR:CD2	28:BE:152:LYS:N	2.77	0.53
29:BF:56:GLU:O	29:BF:58:ALA:C	2.47	0.53
29:BF:64:ILE:HD13	29:BF:64:ILE:H	1.72	0.53
30:BG:41:GLN:HG3	30:BG:155:MET:HA	1.91	0.53
30:BG:2:PRO:HA	30:BG:5:VAL:HB	1.91	0.53
30:BG:57:ALA:O	30:BG:61:ALA:CB	2.57	0.53
31:BH:51:ARG:HD3	31:BH:52:VAL:N	2.23	0.53
34:BM:100:GLU:CA	34:BM:100:GLU:OE2	2.49	0.53
35:BN:113:LYS:HZ1	35:BN:117:LEU:HB2	1.73	0.53
35:BN:47:ILE:HD11	35:BN:51:ALA:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:35:VAL:CA	35:BN:61:VAL:HG11	2.37	0.53
35:BN:64:ARG:HG3	35:BN:65:THR:N	2.24	0.53
36:BO:76:LYS:HZ2	36:BO:112:LEU:HD22	1.70	0.53
36:BO:78:PRO:CA	36:BO:81:GLN:HB2	2.39	0.53
37:BP:124:LYS:CE	37:BP:125:LEU:HA	2.38	0.53
37:BP:127:ILE:HD13	37:BP:129:THR:CG2	2.34	0.53
37:BP:35:VAL:CG1	37:BP:131:ILE:HA	2.39	0.53
37:BP:51:ARG:CG	37:BP:52:VAL:N	2.68	0.53
38:BQ:86:ARG:NH2	38:BQ:118:GLU:OE1	2.42	0.53
38:BQ:28:LEU:O	38:BQ:28:LEU:HD22	2.09	0.53
38:BQ:58:GLY:O	38:BQ:59:ASP:CB	2.57	0.53
39:BR:101:LEU:C	39:BR:101:LEU:HD13	2.29	0.53
39:BR:25:ARG:NH1	39:BR:43:GLU:OE2	2.42	0.53
24:BA:2376:A:N6	39:BR:94:TYR:CE1	2.76	0.53
42:BU:5:VAL:HG12	42:BU:37:VAL:CG2	2.36	0.53
24:BA:1322:A:C5'	43:BV:11:ARG:NH1	2.72	0.53
43:BV:28:SER:OG	43:BV:29:LEU:N	2.42	0.53
45:BX:12:THR:O	45:BX:22:GLY:CA	2.57	0.53
45:BX:42:VAL:O	45:BX:61:ILE:HD13	2.09	0.53
46:BY:141:VAL:HG11	46:BY:150:LEU:HD11	1.91	0.53
25:BB:12:C:O5'	47:BZ:74:ARG:CZ	2.57	0.53
26:BC:161:ILE:CG2	26:BC:174:PRO:HG2	2.39	0.53
26:BC:21:THR:HB	26:BC:228:SER:O	2.08	0.53
26:BC:10:LEU:HD11	26:BC:220:PRO:CG	2.39	0.53
6:AG:47:ARG:HH11	6:AG:47:ARG:CB	2.19	0.53
1:AA:1171:G:H2'	1:AA:1172:C:H6	1.71	0.53
24:BA:718:A:H3'	24:BA:719:C:O4'	2.08	0.53
1:AA:1151:A:H1'	12:AM:39:PRO:CB	2.38	0.53
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.44	0.53
1:AA:1350:A:H2'	1:AA:1351:U:H6	1.73	0.53
1:AA:1450:U:H1'	1:AA:1454:G:N2	2.23	0.53
1:AA:1472:U:H2'	1:AA:1473:A:H8	1.73	0.53
1:AA:1536:C:N3	1:AA:1537:U:O4	2.41	0.53
1:AA:366:C:O2'	1:AA:394:G:N2	2.42	0.53
1:AA:373:A:C4	1:AA:482:A:N6	2.73	0.53
1:AA:486:U:C2'	1:AA:486:U:O2	2.54	0.53
1:AA:604:G:C6	1:AA:635:G:C6	2.97	0.53
1:AA:606:G:H2'	1:AA:631:G:H22	1.75	0.53
1:AA:68:G:C4'	1:AA:171:A:C1'	2.87	0.53
1:AA:852:G:C6	1:AA:853:G:N7	2.77	0.53
1:AA:862:C:N4	1:AA:863:U:O4	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:967:C:OP2	1:AA:968:A:H3'	2.09	0.53
2:AC:43:A:C2	2:AC:44:A:N7	2.77	0.53
2:AC:61:C:C2	2:AC:62:C:C5	2.96	0.53
4:AE:139:LYS:CG	4:AE:140:HIS:N	2.68	0.53
4:AE:164:VAL:HG12	4:AE:186:ALA:HB2	1.91	0.53
4:AE:179:LYS:O	4:AE:181:PHE:N	2.42	0.53
5:AF:179:ARG:CZ	5:AF:206:GLU:OE1	2.56	0.53
6:AG:8:VAL:C	6:AG:10:ARG:H	2.11	0.53
8:AI:57:GLN:HE21	8:AI:57:GLN:C	2.12	0.53
10:AK:9:MET:O	10:AK:13:ILE:CG1	2.57	0.53
10:AK:14:ARG:HD2	10:AK:15:ASN:H	1.74	0.53
13:AN:123:LYS:O	13:AN:124:LYS:C	2.47	0.53
13:AN:62:GLN:O	13:AN:65:ALA:HB3	2.10	0.53
14:AO:41:ARG:CB	14:AO:41:ARG:HH11	2.00	0.53
14:AO:36:VAL:C	14:AO:58:VAL:HG13	2.30	0.53
14:AO:58:VAL:CG1	14:AO:59:ARG:N	2.72	0.53
10:AK:91:ARG:HG3	14:AO:7:ILE:HG23	1.91	0.53
1:AA:1226:C:O5'	15:AP:103:THR:HB	2.09	0.53
15:AP:58:GLU:CA	15:AP:61:GLU:HB2	2.38	0.53
19:AT:60:ILE:CG1	19:AT:61:GLU:O	2.57	0.53
22:AW:62:LEU:HD23	22:AW:65:LYS:HG3	1.90	0.53
22:AW:77:ALA:O	22:AW:80:ARG:HB2	2.09	0.53
48:B1:44:LYS:O	48:B1:48:LEU:CB	2.45	0.53
3:AD:74:C:OP2	50:B3:30:GLU:OE2	2.27	0.53
52:B5:33:LYS:O	52:B5:33:LYS:HG2	2.08	0.53
54:B7:13:ARG:C	54:B7:14:VAL:HG23	2.29	0.53
54:B7:26:LYS:O	54:B7:47:LYS:HE3	2.09	0.53
54:B7:44:LYS:O	54:B7:45:GLY:O	2.28	0.53
24:BA:107:C:C2'	24:BA:108:U:O5'	2.57	0.53
24:BA:1090:U:O4	24:BA:1103:A:N6	2.41	0.53
24:BA:1183:G:N3	24:BA:1183:G:O4'	2.41	0.53
24:BA:1274:A:C2'	24:BA:1275:A:H5'	2.38	0.53
24:BA:1340:U:H6	44:BW:57:LEU:HD11	1.74	0.53
24:BA:1343:G:C2'	24:BA:1344:G:H5''	2.39	0.53
24:BA:1429:G:C4	24:BA:1568:G:N1	2.77	0.53
24:BA:141(A):C:H2'	24:BA:142:G:O5'	2.09	0.53
24:BA:1522:G:O2'	24:BA:1523:U:H5'	2.09	0.53
24:BA:1558:A:C2	24:BA:1560:G:H1'	2.44	0.53
24:BA:1604:C:HO2'	24:BA:1605:C:H5'	1.72	0.53
24:BA:1638:C:O5'	24:BA:1638:C:C6	2.61	0.53
24:BA:1668:A:H2'	24:BA:1669:A:OP2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1709:U:H5'	24:BA:1709:U:C6	2.44	0.53
24:BA:1770:G:N3	24:BA:1771:C:C5	2.77	0.53
24:BA:1771:C:O2	24:BA:1772:G:C8	2.61	0.53
24:BA:1881:C:C5'	24:BA:1881:C:H6	2.18	0.53
24:BA:1943:U:C1'	24:BA:1945:G:H5'	2.39	0.53
24:BA:1961:C:H2'	24:BA:1962:C:O4'	2.08	0.53
24:BA:1973:G:H2'	24:BA:1974:C:H6	1.73	0.53
24:BA:1977:A:C2	24:BA:1978:A:C1'	2.92	0.53
24:BA:2016:U:H2'	24:BA:2017:U:H6	1.74	0.53
24:BA:2281:C:O2'	24:BA:2282:G:C5'	2.57	0.53
24:BA:2287:A:N1	24:BA:2346:A:N6	2.57	0.53
24:BA:1864:U:H5'	24:BA:2410:G:O2'	2.09	0.53
24:BA:2421:G:C2'	24:BA:2422:A:H8	2.17	0.53
24:BA:2466:C:C4	24:BA:2485:G:N1	2.77	0.53
3:AD:76:A:N1	24:BA:248:G:H1'	2.24	0.53
24:BA:2508:G:O2'	24:BA:2509:G:H5'	2.08	0.53
24:BA:2615:U:C6	51:B4:7:PRO:HA	2.44	0.53
24:BA:262:A:C4	24:BA:263:C:C6	2.97	0.53
24:BA:2685:G:N1	24:BA:2686:G:N7	2.57	0.53
24:BA:270(B):A:H4'	24:BA:270(C):C:C5	2.44	0.53
24:BA:270(L):U:C6	24:BA:270(L):U:OP2	2.62	0.53
24:BA:1665:A:N7	24:BA:2726:U:C4	2.77	0.53
24:BA:2756:U:O4	24:BA:2758:A:N1	2.42	0.53
24:BA:388:G:H2'	24:BA:390:A:C8	2.37	0.53
24:BA:484:C:O2'	24:BA:485:C:H5'	2.09	0.53
24:BA:531:C:C6	24:BA:532:A:N3	2.77	0.53
24:BA:532:A:H3'	24:BA:533:G:O4'	2.10	0.53
24:BA:611:C:N3	24:BA:612:G:N3	2.57	0.53
24:BA:720:C:C2	24:BA:721:C:C6	2.97	0.53
24:BA:747:U:O2'	43:BV:88:ARG:CG	2.40	0.53
24:BA:761:A:N3	24:BA:761:A:C2'	2.70	0.53
24:BA:792:G:H21	24:BA:2072:G:C2'	2.22	0.53
24:BA:865:C:O2'	24:BA:866:A:C8	2.41	0.53
24:BA:969:U:O2'	24:BA:970:C:H5'	2.09	0.53
24:BA:97:C:H2'	24:BA:98:G:O4'	2.09	0.53
25:BB:62:C:C2	25:BB:63:G:N7	2.77	0.53
27:BD:93:ALA:O	27:BD:105:ILE:HG22	2.09	0.53
27:BD:202:LYS:CD	27:BD:202:LYS:H	2.22	0.53
27:BD:227:ASN:N	27:BD:227:ASN:ND2	2.53	0.53
24:BA:1824:G:N3	27:BD:253:GLN:HG2	2.24	0.53
27:BD:262:ARG:O	27:BD:266:SER:OG	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:8:PRO:HG3	27:BD:26:LYS:HB2	1.90	0.53
27:BD:59:LYS:NZ	27:BD:59:LYS:C	2.60	0.53
28:BE:149:ARG:NE	28:BE:150:VAL:O	2.37	0.53
28:BE:195:LEU:HD13	28:BE:195:LEU:C	2.29	0.53
28:BE:47:VAL:HG22	28:BE:79:ARG:CD	2.38	0.53
24:BA:1204:A:N1	29:BF:188:ARG:HA	2.22	0.53
29:BF:194:MET:HE1	29:BF:200:GLU:HG2	1.91	0.53
29:BF:78:ILE:CG1	29:BF:79:GLY:H	2.22	0.53
33:BL:10:LEU:HD21	33:BL:57:ILE:HG23	1.91	0.53
34:BM:30:ILE:HG22	34:BM:34:LEU:HD12	1.89	0.53
35:BN:96:THR:C	35:BN:117:LEU:HD11	2.29	0.53
36:BO:100:LEU:O	36:BO:101:VAL:HG13	2.09	0.53
36:BO:18:ARG:HD3	36:BO:20:GLY:N	2.15	0.53
24:BA:1242:A:N1	36:BO:6:LEU:HD11	2.24	0.53
36:BO:98:GLU:O	36:BO:99:LEU:O	2.27	0.53
37:BP:16:ARG:HB2	37:BP:72:LYS:NZ	2.24	0.53
39:BR:50:SER:O	39:BR:76:LYS:HD2	2.09	0.53
40:BS:100:TYR:C	40:BS:102:ILE:HG13	2.28	0.53
41:BT:110:VAL:O	41:BT:111:GLU:C	2.48	0.53
41:BT:42:ALA:O	41:BT:45:TYR:CB	2.55	0.53
42:BU:1:MET:H2	42:BU:44:LYS:HB3	1.72	0.53
42:BU:48:GLY:O	42:BU:49:THR:OG1	2.26	0.53
43:BV:42:ARG:C	43:BV:44:ALA:H	2.11	0.53
43:BV:42:ARG:CB	43:BV:42:ARG:HH21	2.16	0.53
44:BW:57:LEU:HD22	44:BW:78:LYS:CD	2.37	0.53
46:BY:141:VAL:O	46:BY:141:VAL:HG12	2.09	0.53
46:BY:4:ARG:HD3	46:BY:38:TYR:CA	2.37	0.53
46:BY:70:LEU:HD13	46:BY:70:LEU:C	2.29	0.53
24:BA:2331:G:H4'	47:BZ:42:GLY:CA	2.39	0.53
32:BK:73:GLU:HG3	32:BK:138:ILE:CD1	2.39	0.53
24:BA:2138:C:N3	24:BA:2154:G:C2	2.77	0.53
24:BA:2148:G:C2'	24:BA:2149:G:C8	2.83	0.53
26:BC:114:VAL:O	26:BC:114:VAL:HG23	2.08	0.53
26:BC:223:ARG:HG2	26:BC:224:ILE:N	2.23	0.53
26:BC:4:GLY:C	26:BC:5:LYS:HD2	2.30	0.53
26:BC:61:THR:O	26:BC:62:VAL:HB	2.07	0.53
1:AA:1004:A:O2'	1:AA:1005:A:O5'	2.25	0.53
25:BB:117:G:N2	25:BB:118:G:N9	2.57	0.53
26:BC:18:LYS:HD3	26:BC:20:TYR:HD2	1.74	0.53
24:BA:2671:A:C2	24:BA:2672:G:C4	2.97	0.53
1:AA:1069:C:H1'	1:AA:1191:A:C2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1206:G:C2'	1:AA:1207:G:O4'	2.55	0.52
1:AA:982:U:H3	1:AA:1223:C:H42	1.55	0.52
1:AA:120:A:C4	1:AA:122:G:C5	2.97	0.52
1:AA:129:U:O5'	1:AA:129:U:H6	1.92	0.52
1:AA:1305:G:O4'	1:AA:1305:G:P	2.66	0.52
1:AA:134:A:C6	1:AA:135:C:N3	2.77	0.52
1:AA:68:G:H5'	1:AA:171:A:O2'	2.09	0.52
1:AA:198:G:N3	1:AA:199:G:C8	2.77	0.52
1:AA:276:G:P	19:AT:14:LYS:HD3	2.49	0.52
1:AA:246:A:N6	1:AA:279:A:C4	2.77	0.52
1:AA:451:A:O2'	1:AA:452:A:OP2	2.23	0.52
1:AA:540:G:C4	1:AA:541:G:C8	2.97	0.52
1:AA:595:G:N7	1:AA:641:U:N3	2.57	0.52
1:AA:619:U:O2	6:AG:135:LEU:HD11	2.10	0.52
1:AA:715:A:C4'	1:AA:777:A:N6	2.71	0.52
1:AA:799:G:C2	1:AA:800:G:C1'	2.92	0.52
1:AA:981:U:O5'	1:AA:981:U:C6	2.62	0.52
2:AC:28:C:O2	2:AC:29:G:C8	2.62	0.52
2:AC:75:C:O3'	2:AC:76:A:O3'	2.28	0.52
5:AF:87:LEU:CD1	5:AF:101:LEU:HD11	2.24	0.52
5:AF:18:TRP:NE1	16:AQ:55:GLY:N	2.56	0.52
6:AG:134:ASP:O	6:AG:136:PRO:HD3	2.10	0.52
6:AG:148:VAL:HG21	6:AG:162:LEU:CD2	2.39	0.52
6:AG:19:LEU:HA	6:AG:21:LEU:HD13	1.90	0.52
7:AH:63:ARG:N	7:AH:63:ARG:HD3	2.24	0.52
9:AJ:150:ALA:HB1	13:AN:57:THR:HG1	1.74	0.52
10:AK:14:ARG:O	10:AK:17:THR:CB	2.52	0.52
10:AK:22:GLU:HA	10:AK:63:LEU:CD1	2.38	0.52
13:AN:22:HIS:ND1	13:AN:29:ILE:CG1	2.72	0.52
14:AO:42:THR:CA	14:AO:55:VAL:HG23	2.38	0.52
15:AP:107:ALA:O	15:AP:110:ARG:HB3	2.09	0.52
17:AR:49:ASP:OD1	17:AR:52:SER:HB2	2.09	0.52
18:AS:4:ILE:HG12	18:AS:66:PRO:CA	2.40	0.52
21:AV:22:LEU:C	21:AV:24:ALA:H	2.11	0.52
21:AV:39:THR:O	21:AV:40:ILE:C	2.46	0.52
22:AW:50:GLU:HG3	22:AW:100:ILE:HG12	1.90	0.52
22:AW:58:LYS:O	22:AW:62:LEU:HG	2.09	0.52
24:BA:94:G:N2	48:B1:42:ASN:HD21	2.03	0.52
50:B3:28:LYS:HZ2	50:B3:29:PRO:HD3	1.73	0.52
52:B5:19:ARG:O	52:B5:19:ARG:CD	2.57	0.52
52:B5:14:THR:HA	52:B5:51:GLU:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:59:LYS:HA	54:B7:59:LYS:CE	2.40	0.52
24:BA:1062:G:C6	24:BA:1077:A:C6	2.96	0.52
24:BA:1072:C:N3	24:BA:1092:C:N4	2.57	0.52
24:BA:1326:U:C4	24:BA:1327:C:C6	2.97	0.52
24:BA:1419:A:P	24:BA:1419:A:O4'	2.67	0.52
24:BA:141(A):C:H2'	24:BA:142:G:H5'	1.91	0.52
24:BA:1453:A:C8	24:BA:1454:U:C6	2.97	0.52
24:BA:1471:A:C2'	24:BA:1472:A:H5'	2.39	0.52
24:BA:1615:C:C4	24:BA:1617:C:H1'	2.44	0.52
24:BA:1789:A:C5	24:BA:1790:C:H1'	2.44	0.52
24:BA:179:G:C5	24:BA:180:G:C5	2.97	0.52
24:BA:1882:C:C2'	24:BA:1883:G:O4'	2.53	0.52
24:BA:1984:G:C6	24:BA:1985:G:N7	2.77	0.52
24:BA:2034:U:H3'	24:BA:2035:G:H5'	1.91	0.52
3:AD:76:A:C3'	24:BA:2432:A:H1'	2.38	0.52
24:BA:249:C:OP2	24:BA:2394:C:O2'	2.20	0.52
24:BA:23:G:O2'	24:BA:24:G:H5'	2.09	0.52
24:BA:252:G:H2'	24:BA:253:C:H6	1.74	0.52
24:BA:2540:C:C2	24:BA:2541:A:C8	2.97	0.52
24:BA:2563:U:H4'	35:BN:28:SER:CB	2.39	0.52
24:BA:257:A:C2	24:BA:258:G:H1'	2.44	0.52
24:BA:270(X):G:N2	24:BA:270(Y):G:HO2'	2.05	0.52
24:BA:327:G:C6	24:BA:336:C:C4	2.98	0.52
24:BA:388:G:C2	24:BA:390:A:C2	2.96	0.52
24:BA:488:G:H3'	24:BA:488:G:C8	2.43	0.52
24:BA:574:C:H1'	24:BA:2055:C:H5	1.74	0.52
24:BA:721:C:H2'	24:BA:722:A:H8	1.75	0.52
24:BA:728:G:HO2'	24:BA:729:G:H8	1.57	0.52
24:BA:71:A:O2'	24:BA:72:U:OP2	2.23	0.52
24:BA:793:A:H2'	24:BA:794:G:OP2	2.08	0.52
24:BA:820:A:N7	24:BA:973:A:N1	2.56	0.52
24:BA:873:G:C5	24:BA:874:G:C8	2.97	0.52
24:BA:918:A:H2	24:BA:919:G:C5	2.22	0.52
25:BB:52:A:N1	25:BB:53:A:H1'	2.24	0.52
27:BD:155:LEU:CA	27:BD:157:ARG:NH2	2.70	0.52
24:BA:1816:G:OP1	27:BD:43:ARG:NH2	2.42	0.52
27:BD:50:THR:C	27:BD:51:VAL:CG2	2.77	0.52
28:BE:59:VAL:CB	28:BE:62:PRO:HD2	2.39	0.52
24:BA:600:G:O2'	29:BF:105:VAL:HG22	2.07	0.52
29:BF:138:GLU:HG2	29:BF:139:PHE:N	2.24	0.52
29:BF:160:ASN:O	29:BF:163:VAL:HB	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:12:TYR:O	30:BG:16:ARG:HG2	2.08	0.52
30:BG:16:ARG:O	30:BG:20:ILE:HG12	2.09	0.52
30:BG:43:LEU:HD11	30:BG:89:GLY:CA	2.38	0.52
31:BH:66:GLY:C	31:BH:69:ARG:HG2	2.29	0.52
31:BH:35:VAL:CG1	31:BH:71:LEU:HG	2.36	0.52
24:BA:1096:A:H62	33:BL:30:HIS:CB	2.21	0.52
33:BL:87:GLY:C	33:BL:89:HIS:H	2.12	0.52
34:BM:67:LEU:H	34:BM:87:LEU:HD22	1.70	0.52
34:BM:74:ARG:HG2	34:BM:76:SER:OG	2.09	0.52
34:BM:87:LEU:C	34:BM:90:MET:HB2	2.29	0.52
37:BP:102:VAL:CG2	37:BP:104:PHE:CE2	2.93	0.52
37:BP:102:VAL:HG21	37:BP:104:PHE:CE2	2.44	0.52
24:BA:2278:A:OP1	37:BP:14:ARG:HD3	2.09	0.52
37:BP:34:LEU:HG	37:BP:67:ARG:HH22	1.74	0.52
38:BQ:22:ARG:NH1	38:BQ:69:ASP:O	2.42	0.52
39:BR:26:LEU:HD21	39:BR:37:ALA:CB	2.33	0.52
25:BB:51:G:O6	39:BR:32:LEU:HD22	2.10	0.52
40:BS:28:VAL:HG12	40:BS:29:ARG:O	2.10	0.52
40:BS:65:LYS:HZ3	40:BS:75:ILE:CD1	2.20	0.52
24:BA:535:C:H5'	41:BT:49:HIS:HB3	1.90	0.52
41:BT:86:ALA:O	41:BT:90:VAL:HG23	2.08	0.52
42:BU:15:GLU:CD	42:BU:16:PRO:CD	2.77	0.52
44:BW:31:HIS:CD2	44:BW:31:HIS:C	2.82	0.52
45:BX:52:SER:HB3	45:BX:56:PRO:CA	2.39	0.52
46:BY:100:VAL:C	46:BY:124:ILE:HG23	2.29	0.52
46:BY:28:MET:HE3	46:BY:88:PHE:HD1	1.75	0.52
47:BZ:44:ARG:O	47:BZ:45:PHE:CD2	2.62	0.52
47:BZ:33:ALA:CA	47:BZ:61:ALA:O	2.45	0.52
32:BK:76:THR:HG22	32:BK:141:LYS:CE	2.39	0.52
32:BK:83:ALA:HA	32:BK:89:TYR:CE1	2.44	0.52
24:BA:2138:C:C2'	24:BA:2139:C:C6	2.91	0.52
24:BA:2146:C:O5'	24:BA:2147:G:OP2	2.27	0.52
26:BC:76:ALA:HB2	26:BC:153:ILE:CD1	2.40	0.52
1:AA:1081:G:OP2	7:AH:27:ARG:CD	2.50	0.52
1:AA:1087:G:C2	1:AA:1099:G:C4	2.98	0.52
1:AA:1112:C:H1'	5:AF:179:ARG:NH2	2.23	0.52
1:AA:1338:G:H21	2:AC:41:C:H1'	1.75	0.52
1:AA:1402:C:C2	1:AA:1403:C:C6	2.96	0.52
1:AA:1430:C:C2	1:AA:1431:C:H5	2.27	0.52
1:AA:1408:A:N1	1:AA:1494:G:N3	2.57	0.52
1:AA:20:U:C2	1:AA:21:G:C4	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:225:C:H2'	1:AA:226:G:H5'	1.91	0.52
1:AA:313:A:C2'	1:AA:314:C:H6	2.04	0.52
1:AA:315:A:C2'	1:AA:316:G:OP2	2.57	0.52
1:AA:34:C:H2'	1:AA:35:G:C8	2.39	0.52
1:AA:44:G:N2	1:AA:45:U:H1'	2.24	0.52
1:AA:540:G:H2'	1:AA:541:G:H8	1.74	0.52
1:AA:683:G:N2	13:AN:38:ASN:HA	2.24	0.52
1:AA:750:G:H4'	17:AR:20:GLY:O	2.09	0.52
1:AA:581:G:H1	1:AA:758:G:H2'	1.74	0.52
1:AA:908:A:H2'	1:AA:909:A:C8	2.45	0.52
1:AA:965:A:N7	1:AA:969:A:N3	2.56	0.52
1:AA:997:U:H2'	1:AA:998:G:O4'	2.09	0.52
4:AE:83:MET:HB2	4:AE:234:PRO:CB	2.38	0.52
4:AE:71:VAL:HG13	4:AE:93:VAL:HB	1.90	0.52
5:AF:138:VAL:HG12	5:AF:170:GLN:HE21	1.75	0.52
6:AG:122:ARG:HA	6:AG:134:ASP:O	2.10	0.52
6:AG:3:ARG:CZ	6:AG:71:SER:H	2.23	0.52
6:AG:73:ARG:O	6:AG:74:GLN:C	2.47	0.52
7:AH:109:ILE:HD12	7:AH:135:THR:HG22	1.91	0.52
7:AH:109:ILE:HG22	7:AH:110:LEU:CD2	2.39	0.52
7:AH:91:LEU:HD23	7:AH:92:LYS:N	2.24	0.52
8:AI:30:LEU:C	8:AI:35:ALA:CB	2.78	0.52
8:AI:5:GLU:HB2	8:AI:62:TRP:HE1	1.75	0.52
9:AJ:140:ASP:O	9:AJ:144:MET:HG2	2.09	0.52
9:AJ:17:VAL:HG12	9:AJ:17:VAL:O	2.08	0.52
9:AJ:51:GLN:O	9:AJ:55:GLY:HA2	2.09	0.52
9:AJ:63:LYS:O	9:AJ:66:VAL:HB	2.09	0.52
13:AN:67:ASP:HA	13:AN:70:LYS:HD2	1.90	0.52
13:AN:17:GLY:O	13:AN:80:VAL:HG22	2.09	0.52
15:AP:36:LYS:HG2	15:AP:59:TYR:CE1	2.44	0.52
15:AP:81:LEU:O	15:AP:84:ILE:HG12	2.09	0.52
16:AQ:14:PRO:O	16:AQ:15:LYS:C	2.48	0.52
16:AQ:24:CYS:O	16:AQ:24:CYS:SG	2.67	0.52
1:AA:453:A:H1'	18:AS:69:THR:HG23	1.91	0.52
1:AA:254:G:OP1	19:AT:67:LYS:O	2.27	0.52
20:AU:39:VAL:HA	20:AU:42:ARG:HD2	1.91	0.52
8:AI:49:ALA:HB3	20:AU:80:PRO:HD3	1.89	0.52
21:AV:41:VAL:O	21:AV:44:MET:HB2	2.09	0.52
23:AX:6:ARG:HB3	23:AX:15:ARG:CZ	2.40	0.52
1:AA:1327:C:H5''	23:AX:20:LYS:NZ	2.24	0.52
48:B1:2:ARG:O	48:B1:6:GLU:OE2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:179:G:P	53:B6:32:LYS:HZ1	2.32	0.52
24:BA:458:G:OP1	53:B6:39:ARG:CZ	2.57	0.52
54:B7:62:LEU:O	54:B7:62:LEU:HD22	2.09	0.52
24:BA:1069:A:H4'	24:BA:1070:A:H3'	1.91	0.52
24:BA:1083:U:O2	24:BA:1085:A:H8	1.92	0.52
24:BA:1193:G:C2	24:BA:1194:A:C4	2.98	0.52
24:BA:126:A:C2'	24:BA:127:A:H5'	2.40	0.52
24:BA:1291:C:HO2'	24:BA:1292:U:H5'	1.73	0.52
24:BA:1426:G:C8	24:BA:1427:A:C8	2.97	0.52
24:BA:1446:C:H6	24:BA:1446:C:O5'	1.91	0.52
24:BA:136:G:N2	24:BA:144:C:C4	2.77	0.52
24:BA:1697:G:O6	24:BA:1698:A:C6	2.63	0.52
24:BA:1758:G:H5'	24:BA:1759:A:N7	2.23	0.52
24:BA:1788:C:C6	24:BA:1788:C:C3'	2.93	0.52
24:BA:1967:C:H2'	24:BA:1968:G:C5'	2.39	0.52
24:BA:1977:A:N3	24:BA:1977:A:H2'	2.24	0.52
24:BA:2000:G:C2	24:BA:2001:A:N7	2.77	0.52
24:BA:917:A:C2	24:BA:2268:A:N6	2.77	0.52
24:BA:2344:U:C3'	52:B5:38:LYS:HG3	2.37	0.52
24:BA:2325:G:H22	24:BA:2389:G:H22	1.56	0.52
24:BA:2405:G:O5'	24:BA:2405:G:H8	1.92	0.52
24:BA:2444:G:N2	24:BA:2445:G:N3	2.56	0.52
24:BA:2478:A:H2'	24:BA:2479:G:O5'	2.08	0.52
24:BA:2517:C:C4	24:BA:2542:A:N7	2.77	0.52
24:BA:255:A:H2'	24:BA:256:A:C8	2.44	0.52
24:BA:783:A:C5'	24:BA:2589:A:OP1	2.43	0.52
24:BA:2638:G:O2'	24:BA:2639:A:H8	1.80	0.52
24:BA:527:C:H5''	24:BA:2779:U:N3	2.24	0.52
24:BA:2781:A:C8	24:BA:2782:G:H1'	2.43	0.52
24:BA:2813:A:C2	24:BA:2888:C:C2	2.98	0.52
24:BA:38:A:O2'	24:BA:39:C:H5'	2.09	0.52
24:BA:223:A:C4	24:BA:422:A:N7	2.77	0.52
24:BA:489:G:N2	24:BA:491:G:H1'	2.24	0.52
24:BA:562:U:O2'	24:BA:563:G:H5'	2.09	0.52
24:BA:600:G:H22	24:BA:604:G:H4'	1.73	0.52
24:BA:631:A:C8	24:BA:631:A:C3'	2.92	0.52
24:BA:727:A:O2'	24:BA:728:G:P	2.67	0.52
24:BA:751:A:H4'	43:BV:90:ARG:NE	2.23	0.52
24:BA:843:G:N3	24:BA:843:G:H2'	2.23	0.52
24:BA:905:U:C4	24:BA:906:G:H8	2.27	0.52
24:BA:981:A:H1'	24:BA:2037:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:995:C:H1'	41:BT:57:PHE:CD1	2.43	0.52
25:BB:49:C:H6	25:BB:49:C:O5'	1.93	0.52
25:BB:57:A:O2'	30:BG:26:GLN:OE1	2.27	0.52
27:BD:14:ARG:NH1	27:BD:20:ASP:OD1	2.38	0.52
27:BD:8:PRO:CG	27:BD:26:LYS:N	2.72	0.52
28:BE:152:LYS:HZ1	34:BM:77:GLY:HA3	1.74	0.52
28:BE:94:GLU:C	28:BE:96:PHE:N	2.60	0.52
29:BF:113:ALA:HB3	29:BF:186:ILE:HD13	1.92	0.52
30:BG:27:ASN:HB3	30:BG:29:TRP:CZ3	2.45	0.52
30:BG:56:ALA:HB3	30:BG:68:PRO:CB	2.38	0.52
31:BH:87:LEU:CA	31:BH:132:ARG:HB3	2.38	0.52
31:BH:74:ASN:CG	31:BH:75:ALA:N	2.62	0.52
33:BL:17:ALA:O	33:BL:18:THR:CG2	2.56	0.52
24:BA:1076:C:O2'	33:BL:90:LYS:HB3	2.09	0.52
34:BM:16:ILE:CD1	34:BM:52:VAL:CG2	2.82	0.52
34:BM:67:LEU:N	34:BM:87:LEU:CD2	2.60	0.52
35:BN:10:VAL:HG12	35:BN:17:ARG:CA	2.40	0.52
24:BA:626:U:O2	36:BO:100:LEU:O	2.27	0.52
24:BA:1249:U:O4	36:BO:21:ARG:NH2	2.40	0.52
37:BP:75:THR:HG22	37:BP:77:LYS:HD2	1.92	0.52
39:BR:24:LEU:H	39:BR:86:ALA:HB2	1.73	0.52
40:BS:53:ARG:HH11	40:BS:53:ARG:HG3	1.73	0.52
40:BS:56:GLY:O	40:BS:61:PHE:CB	2.57	0.52
40:BS:7:ILE:O	40:BS:11:GLU:CD	2.47	0.52
42:BU:49:THR:HG22	42:BU:53:GLU:OE2	2.09	0.52
42:BU:68:LYS:HG2	42:BU:95:LEU:CD2	2.26	0.52
44:BW:66:LEU:HD12	44:BW:66:LEU:O	2.09	0.52
44:BW:93:GLU:HG3	44:BW:94:GLY:H	1.74	0.52
24:BA:85:G:P	45:BX:28:LYS:HE3	2.50	0.52
46:BY:102:LEU:CD1	46:BY:125:LEU:HD12	2.36	0.52
3:AD:10:G:C6	3:AD:26:A:C6	2.97	0.52
24:BA:2125:G:N2	24:BA:2172:U:OP1	2.41	0.52
26:BC:78:ALA:CB	26:BC:116:THR:OG1	2.57	0.52
26:BC:134:ARG:NH1	26:BC:136:LEU:HD11	2.24	0.52
26:BC:190:ARG:N	26:BC:190:ARG:NH1	2.57	0.52
26:BC:26:ALA:O	26:BC:30:LYS:HD3	2.08	0.52
26:BC:34:THR:CG2	26:BC:34:THR:O	2.54	0.52
1:AA:1161:C:C6	1:AA:1161:C:OP2	2.62	0.52
32:BK:85:GLU:CD	32:BK:85:GLU:N	2.62	0.52
1:AA:1159:U:H2'	1:AA:1159:U:O2	2.09	0.52
1:AA:1156:G:C1'	1:AA:1179:A:H61	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1205:U:C2	1:AA:1206:G:N7	2.78	0.52
1:AA:1239:A:H8	1:AA:1241:G:H1'	1.75	0.52
1:AA:122:G:N2	1:AA:123:C:C2	2.77	0.52
1:AA:1244:C:OP2	23:AX:9:ARG:CD	2.57	0.52
1:AA:133:U:O4	1:AA:229:U:O4	2.27	0.52
1:AA:1400:C:C6	1:AA:1400:C:OP1	2.63	0.52
1:AA:1430:C:C2'	1:AA:1431:C:O5'	2.57	0.52
1:AA:130:A:OP2	1:AA:189:U:C4	2.62	0.52
1:AA:501:C:H1'	1:AA:549:C:C1'	2.32	0.52
1:AA:501:C:OP2	14:AO:124:LYS:CE	2.57	0.52
1:AA:538:G:O2'	14:AO:114:LYS:NZ	2.39	0.52
1:AA:539:A:C8	14:AO:115:LYS:NZ	2.69	0.52
1:AA:586:C:OP1	19:AT:34:LYS:NZ	2.43	0.52
1:AA:632:A:H2'	1:AA:633:G:H8	1.74	0.52
1:AA:682:G:C6	1:AA:683:G:N7	2.77	0.52
1:AA:921:U:O2'	1:AA:922:G:H5'	2.09	0.52
1:AA:937:A:N7	1:AA:938:A:N7	2.58	0.52
3:AD:1:G:C6	3:AD:73:A:N6	2.78	0.52
4:AE:44:LEU:C	4:AE:48:MET:SD	2.88	0.52
4:AE:77:ALA:O	4:AE:78:GLN:C	2.46	0.52
5:AF:20:SER:HB2	5:AF:40:ARG:CZ	2.37	0.52
6:AG:128:VAL:HG21	6:AG:133:VAL:CG2	2.38	0.52
6:AG:191:ARG:CZ	6:AG:194:LEU:O	2.57	0.52
6:AG:60:GLU:CB	6:AG:202:LEU:HB3	2.38	0.52
6:AG:60:GLU:CG	6:AG:203:VAL:HG23	2.39	0.52
6:AG:205:GLU:OE1	7:AH:100:VAL:HG23	2.10	0.52
7:AH:86:ALA:HB3	7:AH:130:ASN:ND2	2.24	0.52
7:AH:90:VAL:CG1	7:AH:90:VAL:O	2.57	0.52
9:AJ:54:THR:O	9:AJ:55:GLY:C	2.45	0.52
10:AK:18:ARG:CD	10:AK:18:ARG:N	2.69	0.52
11:AL:63:ILE:N	11:AL:63:ILE:CD1	2.66	0.52
11:AL:96:LEU:HG	11:AL:101:PHE:CE1	2.45	0.52
15:AP:10:PRO:CG	15:AP:18:ALA:CB	2.87	0.52
17:AR:21:ASP:OD2	17:AR:24:SER:CB	2.57	0.52
17:AR:2:PRO:O	17:AR:3:ILE:C	2.47	0.52
18:AS:35:LYS:NZ	18:AS:37:GLY:C	2.62	0.52
1:AA:255:G:P	19:AT:66:SER:HB2	2.49	0.52
20:AU:21:LYS:HZ1	20:AU:23:LYS:HB3	1.74	0.52
21:AV:40:ILE:CG1	21:AV:71:LEU:HD23	2.38	0.52
21:AV:58:VAL:HG21	21:AV:75:ALA:CB	2.39	0.52
22:AW:43:LEU:CD1	22:AW:51:GLU:HB2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:79:ARG:O	22:AW:80:ARG:C	2.47	0.52
48:B1:54:ARG:O	48:B1:55:LEU:C	2.47	0.52
49:B2:10:LYS:NZ	49:B2:12:PRO:HG3	2.25	0.52
50:B3:58:ARG:NH1	50:B3:58:ARG:CG	2.72	0.52
24:BA:469:G:N1	53:B6:40:TRP:CE2	2.78	0.52
24:BA:469:G:N1	53:B6:40:TRP:HZ2	2.07	0.52
54:B7:62:LEU:O	54:B7:62:LEU:HD13	2.09	0.52
24:BA:1142(A):A:O5'	24:BA:1142(A):A:C8	2.62	0.52
24:BA:1317:A:H2'	24:BA:1318:C:H6	1.73	0.52
24:BA:1379:A:O5'	24:BA:1379:A:N3	2.43	0.52
24:BA:1613:G:C3'	24:BA:1617:C:N4	2.73	0.52
24:BA:1624:G:N3	24:BA:1624:G:H2'	2.24	0.52
24:BA:1698:A:O2'	24:BA:1699:G:H5'	2.08	0.52
24:BA:1717:G:N2	24:BA:1718:G:H1'	2.24	0.52
24:BA:1725:G:N2	24:BA:1726:G:C1'	2.72	0.52
24:BA:1788:C:N4	24:BA:1789:A:H8	2.00	0.52
24:BA:1800:C:HO2'	24:BA:1802:A:H8	1.53	0.52
24:BA:181:A:H5'	24:BA:181:A:C8	2.44	0.52
24:BA:1897:G:H2'	24:BA:1898:U:O4'	2.08	0.52
24:BA:1978:A:H2'	24:BA:1979:C:H6	1.74	0.52
24:BA:2045:C:H2'	24:BA:2046:G:O4'	2.08	0.52
24:BA:2225:A:C4'	24:BA:2226:C:H6	2.20	0.52
24:BA:2313:C:H2'	24:BA:2314:C:H6	1.74	0.52
24:BA:2323:G:O2'	24:BA:2324:C:H5'	2.08	0.52
24:BA:2400:G:N2	24:BA:2417:C:C2	2.78	0.52
24:BA:2418:A:C2	24:BA:2419:U:C2	2.97	0.52
24:BA:2468:G:C8	24:BA:2476:A:N1	2.78	0.52
24:BA:2514:U:C2'	24:BA:2515:C:H6	2.11	0.52
24:BA:2505:G:C2	24:BA:2576:G:C4	2.97	0.52
24:BA:2587:A:HO2'	24:BA:2588:G:H5'	1.75	0.52
24:BA:2653:U:C6	24:BA:2654:A:N7	2.77	0.52
24:BA:2788:C:H4'	24:BA:2810:A:H5'	1.90	0.52
24:BA:2819:G:H2'	24:BA:2821:A:N6	2.24	0.52
24:BA:280:C:N3	24:BA:283:A:N7	2.57	0.52
24:BA:2848:G:N2	24:BA:2867:G:H1'	2.24	0.52
24:BA:284:U:O4'	24:BA:284:U:OP2	2.27	0.52
24:BA:2851:A:C2	24:BA:2852:G:C1'	2.93	0.52
24:BA:2691:C:O4'	24:BA:2872:G:N7	2.42	0.52
24:BA:668:G:C2	24:BA:670:A:N6	2.77	0.52
24:BA:887:A:O2'	24:BA:889:C:C6	2.61	0.52
24:BA:892:G:C2	24:BA:893:C:C4	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:943:U:C5	24:BA:944:G:C8	2.98	0.52
24:BA:976:C:O2	24:BA:977:G:C8	2.62	0.52
27:BD:137:PRO:HB2	27:BD:140:THR:HG21	1.90	0.52
24:BA:1791:A:O2'	27:BD:206:LEU:HD21	2.10	0.52
27:BD:53:PHE:HB2	27:BD:221:VAL:CG2	2.38	0.52
27:BD:82:ILE:CG2	27:BD:83:GLU:N	2.73	0.52
28:BE:13:ARG:O	28:BE:13:ARG:CD	2.50	0.52
28:BE:176:ILE:CG2	28:BE:181:LEU:CB	2.85	0.52
28:BE:7:VAL:HG11	28:BE:196:VAL:HG11	1.91	0.52
28:BE:95:ILE:HG22	28:BE:96:PHE:N	2.23	0.52
29:BF:135:LYS:O	29:BF:138:GLU:HG2	2.09	0.52
29:BF:197:ASP:CA	29:BF:200:GLU:HG3	2.39	0.52
29:BF:29:ASN:ND2	29:BF:29:ASN:C	2.63	0.52
29:BF:39:TRP:HZ3	29:BF:43:LYS:CD	2.17	0.52
30:BG:163:ALA:CB	30:BG:169:ALA:CA	2.87	0.52
31:BH:157:TYR:HB3	31:BH:172:LYS:CB	2.40	0.52
31:BH:40:GLU:HG2	31:BH:55:PRO:HG2	1.90	0.52
32:BK:4:ILE:O	32:BK:36:ALA:CB	2.38	0.52
33:BL:124:ALA:O	33:BL:127:ILE:HB	2.09	0.52
37:BP:12:GLN:HE21	37:BP:13:GLN:NE2	2.07	0.52
24:BA:2876:G:C4'	40:BS:1:MET:H2	2.20	0.52
41:BT:84:LYS:O	41:BT:85:LYS:C	2.44	0.52
43:BV:7:ALA:O	43:BV:102:HIS:CA	2.57	0.52
45:BX:2:ARG:CG	45:BX:3:VAL:H	2.20	0.52
24:BA:336:C:O3'	45:BX:6:HIS:NE2	2.42	0.52
46:BY:102:LEU:CB	46:BY:123:ASP:O	2.55	0.52
46:BY:136:PHE:C	46:BY:138:GLU:HG3	2.28	0.52
46:BY:152:ALA:O	46:BY:155:LEU:HD13	2.09	0.52
24:BA:2278:A:C5	47:BZ:14:ARG:HB2	2.44	0.52
24:BA:2271:G:H5'	47:BZ:20:ARG:NH1	2.23	0.52
24:BA:2177:C:O5'	24:BA:2177:C:H6	1.93	0.52
26:BC:167:LYS:HG3	26:BC:168:THR:N	2.25	0.52
26:BC:180:PHE:CD1	26:BC:181:PRO:HD2	2.43	0.52
26:BC:30:LYS:HZ2	26:BC:182:PRO:CB	2.10	0.52
26:BC:80:GLY:HA2	26:BC:83:ILE:HD12	1.90	0.52
1:AA:748:C:O2'	1:AA:749:C:H5'	2.08	0.52
34:BM:139:GLU:O	34:BM:140:VAL:CG2	2.57	0.52
1:AA:1133:G:N1	1:AA:1142:G:C6	2.77	0.52
1:AA:1151:A:O2'	1:AA:1152:A:OP1	2.23	0.52
1:AA:1212:U:O2'	1:AA:1213:A:H8	1.93	0.52
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1319:A:H4'	21:AV:70:LYS:HZ3	1.74	0.52
1:AA:1333:A:H8	1:AA:1333:A:O5'	1.92	0.52
1:AA:246:A:C2	1:AA:282:A:C5	2.98	0.52
1:AA:362:G:N3	1:AA:364:A:H8	2.06	0.52
1:AA:575:G:C6	1:AA:821:G:C8	2.98	0.52
1:AA:644:G:C6	1:AA:645:C:C2	2.98	0.52
1:AA:690:G:C2'	1:AA:690:G:N3	2.70	0.52
1:AA:715:A:H4'	1:AA:777:A:H61	1.74	0.52
1:AA:856:C:O2'	1:AA:857:C:H5'	2.09	0.52
3:AD:76:A:H3'	24:BA:2432:A:C2'	2.39	0.52
4:AE:55:PHE:CD2	4:AE:58:ILE:HD12	2.44	0.52
4:AE:87:ARG:C	4:AE:89:GLY:N	2.62	0.52
6:AG:55:ALA:C	6:AG:59:ARG:HG2	2.25	0.52
8:AI:12:PRO:HG2	8:AI:13:ASN:H	1.74	0.52
8:AI:8:ILE:HG23	8:AI:88:VAL:HA	1.91	0.52
9:AJ:88:PRO:CG	9:AJ:152:ALA:HB2	2.40	0.52
10:AK:126:LYS:CE	10:AK:127:LEU:HB2	2.39	0.52
11:AL:19:LEU:CD2	11:AL:20:ARG:N	2.73	0.52
9:AJ:150:ALA:HB2	13:AN:59:TYR:HD2	1.71	0.52
14:AO:117:ARG:HH21	14:AO:124:LYS:N	2.08	0.52
14:AO:62:SER:O	14:AO:63:GLY:C	2.46	0.52
15:AP:73:GLU:C	15:AP:73:GLU:CD	2.67	0.52
15:AP:80:ARG:HG3	15:AP:80:ARG:HH11	1.74	0.52
15:AP:91:ARG:HH11	15:AP:96:LEU:HB2	1.73	0.52
15:AP:99:ARG:NH1	15:AP:99:ARG:HG3	2.24	0.52
19:AT:40:LYS:NZ	19:AT:42:TYR:OH	2.41	0.52
21:AV:36:ARG:NE	21:AV:51:VAL:CG1	2.52	0.52
48:B1:19:LEU:CD2	48:B1:19:LEU:C	2.76	0.52
49:B2:7:LYS:NZ	49:B2:32:GLN:HA	2.24	0.52
50:B3:5:ILE:CD1	50:B3:10:VAL:HG23	2.40	0.52
50:B3:61:ARG:O	50:B3:62:ARG:C	2.47	0.52
51:B4:48:GLU:O	51:B4:58:LEU:HD12	2.09	0.52
52:B5:6:ARG:HA	52:B5:10:LEU:HD21	1.90	0.52
24:BA:686:G:OP1	53:B6:11:LYS:HE2	2.08	0.52
53:B6:5:TRP:CH2	53:B6:7:PRO:HB3	2.45	0.52
24:BA:1067:A:C5	24:BA:1068:G:O6	2.63	0.52
24:BA:1096:A:H62	33:BL:30:HIS:HB2	1.74	0.52
24:BA:1161:C:O2'	24:BA:1162:G:H5'	2.09	0.52
24:BA:1341:U:H2'	44:BW:55:ASN:HB3	1.91	0.52
24:BA:1382:G:H2'	24:BA:1383:C:H6	1.73	0.52
24:BA:1426:G:C3'	24:BA:1427:A:H5''	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1429:G:H2'	24:BA:1430:C:O4'	2.09	0.52
24:BA:1464:C:C2	24:BA:1465:G:C8	2.97	0.52
24:BA:1707:G:C4	24:BA:1708:C:C5	2.98	0.52
24:BA:1730:U:O2'	24:BA:1731:G:C2	2.62	0.52
24:BA:1769:G:C2	24:BA:1984:G:C4	2.97	0.52
24:BA:175:G:HO2'	24:BA:176:G:H5'	1.75	0.52
24:BA:1819:A:O2'	24:BA:1820:U:O5'	2.27	0.52
24:BA:1941:C:C2'	24:BA:1942:C:O5'	2.57	0.52
24:BA:1988:C:C2'	24:BA:1989:G:H5'	2.39	0.52
24:BA:2209:C:C5'	27:BD:150:LYS:HB3	2.40	0.52
24:BA:2259:G:H2'	24:BA:2260:C:H6	1.75	0.52
24:BA:2281:C:O2'	24:BA:2282:G:O5'	2.28	0.52
24:BA:2405:G:C2'	24:BA:2411:A:H61	2.22	0.52
24:BA:2456:C:H2'	24:BA:2457:U:C5'	2.39	0.52
24:BA:2453:A:H2	24:BA:2504:U:O2	1.92	0.52
24:BA:250:G:N3	24:BA:250:G:H2'	2.23	0.52
24:BA:2543:G:N7	24:BA:2544:G:C6	2.78	0.52
24:BA:2584:U:C2'	24:BA:2585:U:C5	2.92	0.52
24:BA:2694:G:C6	24:BA:2695:C:C5	2.97	0.52
24:BA:271(C):U:H2'	24:BA:271(C):U:O2	2.08	0.52
24:BA:2747:G:C4	24:BA:2756:U:O4	2.61	0.52
24:BA:395:U:H6	24:BA:395:U:OP2	1.92	0.52
24:BA:447:A:C2	24:BA:473:G:C8	2.97	0.52
24:BA:449:A:C2	24:BA:450:G:C5	2.98	0.52
24:BA:458:G:H5'	53:B6:39:ARG:CZ	2.40	0.52
24:BA:552:G:C6	24:BA:553:U:C4	2.98	0.52
24:BA:580:C:N4	24:BA:581:C:N4	2.57	0.52
24:BA:603:A:N1	24:BA:625:G:C8	2.77	0.52
24:BA:642:G:C3'	24:BA:642:G:C8	2.92	0.52
24:BA:673:C:H5''	29:BF:81:PRO:CB	2.39	0.52
24:BA:674:G:O6	24:BA:804:A:H2'	2.10	0.52
24:BA:764:A:OP1	27:BD:211:ARG:HD2	2.09	0.52
24:BA:774:A:H2	24:BA:787:U:H1'	1.73	0.52
24:BA:778:G:C6	24:BA:779:U:C4	2.98	0.52
24:BA:793:A:O2'	24:BA:794:G:P	2.68	0.52
24:BA:878:A:H2'	24:BA:879:G:C5'	2.40	0.52
24:BA:89:G:C5	24:BA:90:U:C5	2.97	0.52
24:BA:972:G:OP2	24:BA:972:G:C8	2.62	0.52
24:BA:980:A:N3	24:BA:2037:G:O2'	2.36	0.52
25:BB:12:C:C4'	47:BZ:74:ARG:HG2	2.38	0.52
25:BB:52:A:C2	25:BB:53:A:C1'	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:165:ILE:HD12	27:BD:165:ILE:N	2.24	0.52
27:BD:263:ARG:O	27:BD:264:LYS:HE3	2.10	0.52
27:BD:53:PHE:HD1	27:BD:53:PHE:H	1.47	0.52
27:BD:38:LYS:NZ	27:BD:63:ARG:O	2.42	0.52
24:BA:2051:A:H4'	28:BE:141:ILE:HG23	1.91	0.52
28:BE:14:ILE:HD11	40:BS:14:TYR:HB2	1.90	0.52
28:BE:103:ASP:OD2	28:BE:201:THR:N	2.42	0.52
28:BE:33:VAL:CG2	28:BE:47:VAL:HG12	2.40	0.52
28:BE:53:PRO:CG	28:BE:75:VAL:HG13	2.39	0.52
29:BF:119:ARG:CZ	29:BF:120:GLU:OE1	2.57	0.52
29:BF:163:VAL:HG12	29:BF:164:ARG:N	2.24	0.52
30:BG:27:ASN:HB3	30:BG:29:TRP:CE3	2.44	0.52
24:BA:1036:G:P	31:BH:59:ARG:HD3	2.48	0.52
24:BA:1096:A:H62	33:BL:30:HIS:CD2	2.27	0.52
33:BL:78:ILE:HD13	33:BL:131:ALA:CB	2.38	0.52
33:BL:78:ILE:CG2	33:BL:79:ARG:H	2.23	0.52
34:BM:63:THR:CB	34:BM:65:LYS:HD3	2.38	0.52
35:BN:90:GLN:OE1	35:BN:110:GLY:O	2.27	0.52
35:BN:52:VAL:CG2	35:BN:53:LYS:N	2.70	0.52
35:BN:66:LYS:CE	35:BN:67:LYS:HZ3	2.16	0.52
35:BN:99:PHE:CE2	35:BN:105:GLU:CD	2.83	0.52
36:BO:63:PRO:CB	36:BO:64:LYS:HE2	2.30	0.52
37:BP:122:GLY:HA2	37:BP:125:LEU:CB	2.39	0.52
37:BP:42:ILE:HD11	37:BP:46:GLN:CG	2.40	0.52
38:BQ:83:ILE:O	38:BQ:84:ALA:C	2.47	0.52
39:BR:10:ARG:NH1	39:BR:89:ARG:NH2	2.58	0.52
39:BR:13:ARG:HH22	39:BR:92:TYR:N	2.06	0.52
39:BR:62:LYS:O	39:BR:65:VAL:CG1	2.49	0.52
39:BR:51:ALA:CA	39:BR:73:LEU:HG	2.39	0.52
39:BR:89:ARG:CZ	39:BR:90:GLY:O	2.58	0.52
35:BN:73:ASP:C	40:BS:79:HIS:CE1	2.82	0.52
40:BS:9:LEU:O	40:BS:10:VAL:C	2.48	0.52
40:BS:9:LEU:O	40:BS:12:SER:HB2	2.10	0.52
41:BT:13:LYS:HZ3	41:BT:13:LYS:H	1.58	0.52
24:BA:534:U:P	41:BT:24:TYR:HE2	2.32	0.52
42:BU:18:LEU:HD12	42:BU:66:ARG:HH12	1.75	0.52
42:BU:57:VAL:HG12	42:BU:58:VAL:H	1.74	0.52
42:BU:66:ARG:HE	42:BU:95:LEU:HB2	1.75	0.52
44:BW:12:VAL:HG22	44:BW:29:TRP:NE1	2.24	0.52
44:BW:60:ARG:CD	44:BW:62:LYS:HG2	2.38	0.52
44:BW:89:ILE:HG22	44:BW:89:ILE:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:52:SER:HB3	45:BX:56:PRO:HB3	1.92	0.52
25:BB:76:G:P	46:BY:11:GLU:H	2.32	0.52
46:BY:45:ASP:O	46:BY:48:PHE:HB2	2.10	0.52
25:BB:75:G:H21	46:BY:85:HIS:CE1	2.28	0.52
37:BP:85:LYS:HZ2	47:BZ:10:THR:HG23	1.74	0.52
47:BZ:27:GLU:OE1	47:BZ:27:GLU:HA	2.09	0.52
47:BZ:48:GLY:O	47:BZ:51:VAL:HB	2.10	0.52
24:BA:2117:A:O3'	24:BA:2147:G:N2	2.42	0.52
24:BA:2147:G:C2	24:BA:2148:G:H4'	2.45	0.52
26:BC:116:THR:C	26:BC:120:MET:HG2	2.29	0.52
26:BC:131:LEU:HD22	26:BC:136:LEU:HB3	1.91	0.52
24:BA:2108:C:O2'	24:BA:2109:U:H5'	2.08	0.52
24:BA:161:U:H3	24:BA:171:G:H21	1.54	0.52
24:BA:2188:C:C4	24:BA:2189:U:C4	2.98	0.52
18:AS:45:THR:HB	18:AS:46:PRO:HD2	1.92	0.52
1:AA:1189:C:O2'	5:AF:176:HIS:CD2	2.62	0.52
1:AA:1274:G:H2'	1:AA:1274:G:N3	2.24	0.52
1:AA:1286:A:H5'	23:AX:25:LYS:HG3	1.90	0.52
1:AA:1349:A:OP2	11:AL:118:LYS:CD	2.44	0.52
1:AA:1401:G:C2'	1:AA:1402:C:C5'	2.83	0.52
1:AA:1435:G:C2	1:AA:1436:U:O4	2.61	0.52
1:AA:1466:C:H5''	1:AA:1467:G:OP2	2.10	0.52
1:AA:1430:C:N3	1:AA:1471:G:C2	2.77	0.52
1:AA:1498:U:C2'	1:AA:1498:U:O2	2.58	0.52
1:AA:1502:A:C2	1:AA:1504:G:N3	2.77	0.52
1:AA:190:G:O2'	1:AA:191(A):G:P	2.67	0.52
1:AA:44:G:O6	1:AA:399:G:O6	2.28	0.52
1:AA:478:A:H2'	1:AA:479:C:C6	2.43	0.52
1:AA:50:A:O2'	1:AA:360:A:C2	2.62	0.52
1:AA:60:A:H62	1:AA:110:C:H42	1.56	0.52
1:AA:688:G:N3	1:AA:704:A:H2	2.08	0.52
1:AA:78:G:C6	1:AA:79:G:N7	2.78	0.52
1:AA:895:G:C2	1:AA:896:C:C4	2.98	0.52
2:AC:17:C:N4	2:AC:19:G:H8	2.06	0.52
4:AE:163:PHE:CE1	4:AE:201:ILE:CD1	2.93	0.52
4:AE:67:THR:HG21	4:AE:155:LEU:HD21	1.91	0.52
5:AF:172:ARG:NH1	5:AF:174:PRO:HD3	2.23	0.52
5:AF:192:THR:O	5:AF:192:THR:CG2	2.57	0.52
5:AF:89:GLU:O	5:AF:91:LEU:N	2.43	0.52
6:AG:12:CYS:HB3	6:AG:33:MET:CE	2.40	0.52
6:AG:65:ARG:HG2	6:AG:65:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:81:GLU:CG	7:AH:90:VAL:HG23	2.40	0.52
11:AL:16:ARG:CD	11:AL:64:THR:OG1	2.57	0.52
13:AN:99:GLN:O	13:AN:102:GLY:HA2	2.09	0.52
15:AP:49:THR:O	15:AP:53:VAL:HG23	2.10	0.52
17:AR:83:GLU:O	17:AR:84:LYS:C	2.44	0.52
19:AT:94:ASN:O	19:AT:97:SER:OG	2.27	0.52
20:AU:17:SER:HB2	20:AU:54:ARG:CZ	2.40	0.52
22:AW:76:ALA:C	22:AW:78:ALA:N	2.60	0.52
22:AW:34:LYS:HG2	22:AW:80:ARG:HH12	1.74	0.52
48:B1:12:SER:CB	48:B1:13:PRO:CD	2.87	0.52
51:B4:55:ARG:H	51:B4:55:ARG:CD	2.23	0.52
24:BA:85:G:HO2'	24:BA:103:A:H2	1.57	0.52
24:BA:1205:U:O2'	24:BA:1206:G:C5	2.59	0.52
24:BA:1265:A:H1'	24:BA:1267:U:N3	2.24	0.52
24:BA:126:A:O2'	24:BA:127:A:H5'	2.09	0.52
24:BA:1349:A:H5'	24:BA:1350:C:C5'	2.39	0.52
24:BA:1434:A:C2	24:BA:1435:G:C1'	2.92	0.52
24:BA:1471:A:C4	24:BA:1521:G:N2	2.77	0.52
24:BA:1542:G:H1'	24:BA:1543:A:N1	2.24	0.52
24:BA:1778:U:H3'	24:BA:1779:U:C5	2.45	0.52
24:BA:1854:A:H2	24:BA:2088:G:O4'	1.92	0.52
24:BA:1855:G:C6	24:BA:1856:G:N7	2.77	0.52
1:AA:1517:G:O4'	24:BA:1920:C:OP1	2.26	0.52
24:BA:1993:U:C3'	24:BA:1993:U:H6	2.18	0.52
24:BA:2051:A:H1'	28:BE:141:ILE:CD1	2.34	0.52
24:BA:2325:G:O2'	24:BA:2326:C:H5'	2.10	0.52
24:BA:2405:G:H2'	24:BA:2411:A:H61	1.74	0.52
24:BA:2412:A:H3'	24:BA:2413:G:H8	1.75	0.52
24:BA:2423:U:H1'	24:BA:2425:A:N7	2.25	0.52
24:BA:2457:U:H2'	24:BA:2458:G:C4'	2.40	0.52
24:BA:2522:U:C2	24:BA:2543:G:O6	2.63	0.52
24:BA:2539:C:C2'	24:BA:2540:C:H5'	2.40	0.52
24:BA:2605:U:H2'	24:BA:2606:C:C6	2.44	0.52
24:BA:2637:U:OP2	24:BA:2637:U:H6	1.93	0.52
24:BA:2690:C:O2'	24:BA:2691:C:C5'	2.56	0.52
24:BA:2757:A:H2'	24:BA:2758:A:H5'	1.92	0.52
24:BA:2816:C:H2'	24:BA:2817:G:O5'	2.10	0.52
24:BA:448:U:C4	24:BA:583:G:H1'	2.44	0.52
24:BA:455:C:C4'	24:BA:456:C:OP1	2.56	0.52
24:BA:603:A:OP2	24:BA:655:A:C2	2.63	0.52
24:BA:695:G:C5	24:BA:768:G:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:809:G:H1'	24:BA:1254:A:C2	2.44	0.52
24:BA:827:U:OP1	24:BA:2429:G:OP2	2.26	0.52
24:BA:860:U:O4	24:BA:917:A:N1	2.43	0.52
24:BA:878:A:C4	24:BA:879:G:C5	2.97	0.52
24:BA:896:A:C2	24:BA:897:C:C5	2.98	0.52
24:BA:919:G:O2'	24:BA:920:G:C5'	2.58	0.52
24:BA:963:U:H2'	24:BA:963:U:O2	2.08	0.52
25:BB:66:A:H2	25:BB:108:C:N1	2.08	0.52
25:BB:15:A:C5'	25:BB:16:G:OP2	2.56	0.52
25:BB:43:C:N3	30:BG:95:ARG:NH2	2.57	0.52
27:BD:122:ASP:HA	27:BD:131:LEU:HD21	1.90	0.52
27:BD:175:LEU:O	27:BD:182:LEU:CA	2.44	0.52
27:BD:219:PRO:HG2	27:BD:220:HIS:CE1	2.44	0.52
27:BD:94:LEU:C	27:BD:94:LEU:HD13	2.29	0.52
28:BE:156:MET:O	28:BE:157:ALA:O	2.27	0.52
28:BE:180:ASN:ND2	28:BE:180:ASN:H	2.07	0.52
28:BE:173:VAL:CG1	28:BE:184:VAL:C	2.78	0.52
28:BE:18:ASP:HB3	35:BN:72:PRO:CA	2.18	0.52
30:BG:125:PHE:CE2	30:BG:127:GLY:O	2.63	0.52
30:BG:32:PRO:HG2	30:BG:33:ARG:N	2.24	0.52
31:BH:12:PRO:O	31:BH:13:LYS:HG3	2.08	0.52
31:BH:76:VAL:O	31:BH:79:VAL:HG22	2.09	0.52
32:BK:16:GLY:O	32:BK:17:GLN:HG3	2.09	0.52
33:BL:52:ILE:HB	33:BL:72:PRO:HB2	1.90	0.52
35:BN:11:ALA:HB2	35:BN:17:ARG:CZ	2.39	0.52
35:BN:94:ARG:CG	35:BN:95:GLY:H	2.18	0.52
40:BS:82:LEU:C	40:BS:84:GLN:N	2.63	0.52
24:BA:1225:C:OP1	42:BU:88:ARG:CB	2.58	0.52
43:BV:40:ASN:C	43:BV:41:LYS:HG3	2.30	0.52
44:BW:12:VAL:HA	44:BW:29:TRP:CD1	2.45	0.52
44:BW:33:LYS:HB2	44:BW:33:LYS:HZ2	1.75	0.52
46:BY:118:GLN:NE2	46:BY:174:VAL:HG12	2.23	0.52
32:BK:127:VAL:CG2	32:BK:141:LYS:HA	2.35	0.52
3:AD:56:C:H2'	3:AD:57:G:C1'	2.39	0.52
26:BC:161:ILE:HG22	26:BC:174:PRO:HD2	1.91	0.52
26:BC:32:LEU:CD1	26:BC:220:PRO:HG2	2.37	0.52
32:BK:58:LEU:HD22	32:BK:61:ARG:HH21	1.75	0.52
24:BA:2101:G:C6	24:BA:2102:U:C4	2.97	0.52
24:BA:2106:G:C6	24:BA:2184:G:C6	2.97	0.52
24:BA:155:C:O2'	24:BA:161:U:C5	2.52	0.52
1:AA:1382:C:O5'	1:AA:1382:C:H6	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:50:ARG:O	32:BK:53:ALA:HB3	2.09	0.52
1:AA:1047:G:C2	1:AA:1048:G:C8	2.97	0.52
1:AA:1064:G:C1'	1:AA:1066:C:N3	2.71	0.52
1:AA:1184:G:C2	1:AA:1185:G:N7	2.78	0.52
1:AA:1325:C:C2	1:AA:1326:C:C5	2.97	0.52
1:AA:1350:A:C6	1:AA:1351:U:C4	2.98	0.52
1:AA:1390:U:C2	1:AA:1391:U:C5	2.98	0.52
1:AA:1391:U:C2'	1:AA:1392:G:C8	2.88	0.52
1:AA:1476:G:C2	1:AA:1477:C:C4	2.97	0.52
1:AA:927:G:OP2	1:AA:1503:A:N7	2.42	0.52
1:AA:230:G:C2	1:AA:231:G:C4	2.98	0.52
1:AA:235:C:H2'	1:AA:236:G:C8	2.40	0.52
1:AA:620:C:C2	6:AG:135:LEU:HD13	2.44	0.52
1:AA:883:C:H5'	1:AA:884:U:OP2	2.09	0.52
1:AA:889:A:H5''	1:AA:890:G:OP1	2.09	0.52
1:AA:940:C:H2'	1:AA:941:G:C8	2.40	0.52
1:AA:952:U:C5'	1:AA:972:C:H41	2.22	0.52
1:AA:961:U:H6	1:AA:983:A:N3	2.07	0.52
2:AC:17:C:C4	2:AC:19:G:C8	2.97	0.52
1:AA:1338:G:N2	2:AC:30:G:H21	2.07	0.52
2:AC:36:U:O2	2:AC:36:U:H2'	2.08	0.52
1:AA:1536:C:H42	3:AD:35:A:N6	2.07	0.52
3:AD:49:G:H2'	3:AD:49:G:N3	2.24	0.52
4:AE:103:THR:O	4:AE:104:ASN:CB	2.43	0.52
5:AF:27:LYS:O	5:AF:28:GLN:HB3	2.10	0.52
5:AF:72:LYS:O	5:AF:76:VAL:CG2	2.57	0.52
6:AG:20:TYR:CD1	6:AG:21:LEU:N	2.77	0.52
7:AH:46:GLY:H	7:AH:58:ALA:HB2	1.74	0.52
8:AI:6:VAL:O	8:AI:62:TRP:HA	2.10	0.52
9:AJ:15:ASP:OD1	9:AJ:18:TYR:N	2.42	0.52
9:AJ:43:PHE:HD2	9:AJ:44:TYR:CD2	2.28	0.52
1:AA:1376:U:OP1	9:AJ:98:SER:HB3	2.09	0.52
10:AK:116:LYS:HA	10:AK:116:LYS:HE3	1.92	0.52
10:AK:5:PRO:O	10:AK:6:ILE:C	2.47	0.52
12:AM:87:THR:HG22	12:AM:87:THR:O	2.09	0.52
1:AA:523:A:H61	14:AO:53:ARG:NH2	2.08	0.52
17:AR:6:GLU:O	17:AR:7:GLU:C	2.48	0.52
17:AR:69:TYR:O	17:AR:72:ARG:N	2.42	0.52
18:AS:58:TYR:CD1	18:AS:59:TRP:N	2.78	0.52
1:AA:137:C:H1'	18:AS:62:VAL:HA	1.90	0.52
18:AS:51:VAL:HG21	18:AS:77:ALA:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:75:ARG:HH12	19:AT:77:VAL:CB	2.22	0.52
19:AT:83:ASP:O	19:AT:86:GLU:HB2	2.09	0.52
20:AU:54:ARG:HG3	20:AU:55:ARG:HG2	1.92	0.52
20:AU:55:ARG:CB	20:AU:55:ARG:NH1	2.55	0.52
21:AV:11:VAL:CG1	21:AV:15:LEU:CD1	2.82	0.52
22:AW:76:ALA:O	22:AW:78:ALA:N	2.43	0.52
48:B1:37:GLY:CA	48:B1:41:GLN:NE2	2.70	0.52
24:BA:112:U:P	48:B1:64:ARG:NH1	2.83	0.52
49:B2:52:HIS:O	49:B2:54:VAL:N	2.42	0.52
43:BV:19:LEU:HD23	51:B4:25:LEU:HD22	1.90	0.52
52:B5:35:GLU:HB2	52:B5:52:VAL:HG22	1.92	0.52
54:B7:5:LYS:NZ	54:B7:64:TYR:CG	2.76	0.52
24:BA:1025:G:C8	24:BA:1134:G:O4'	2.63	0.52
24:BA:1034:G:C6	24:BA:1122:G:C6	2.98	0.52
24:BA:1186:G:H2'	24:BA:1187:G:O4'	2.09	0.52
24:BA:443:A:O4'	24:BA:1201:C:H4'	2.10	0.52
24:BA:1263:U:C5	24:BA:1264:G:N1	2.77	0.52
24:BA:1296:G:C4	24:BA:1297:C:C5	2.98	0.52
24:BA:1471:A:H2'	24:BA:1472:A:H5'	1.91	0.52
24:BA:1537:C:C2'	24:BA:1538:G:H5'	2.40	0.52
24:BA:1567:A:C2'	24:BA:1567:A:N3	2.72	0.52
24:BA:1879:C:C4	24:BA:1880:C:C4	2.98	0.52
24:BA:1912:A:C5	24:BA:1918:A:N6	2.78	0.52
24:BA:2037:G:C6	24:BA:2038:G:O6	2.63	0.52
24:BA:2051:A:N6	24:BA:2614:A:C5	2.77	0.52
24:BA:2234:G:H21	24:BA:2235:G:H1'	1.73	0.52
24:BA:2405:G:N2	24:BA:2411:A:N7	2.57	0.52
24:BA:262:A:O2'	24:BA:263:C:C5'	2.56	0.52
24:BA:270(C):C:C2'	24:BA:270(D):C:C6	2.77	0.52
24:BA:270(L):U:O2	24:BA:270(L):U:C2'	2.58	0.52
24:BA:271(C):U:H5	24:BA:421:U:C5	2.27	0.52
24:BA:2856:C:H2'	24:BA:2857:G:H5'	1.90	0.52
24:BA:2886:G:N2	24:BA:2887:U:C1'	2.72	0.52
24:BA:2894:G:H2'	24:BA:2894:G:N3	2.25	0.52
24:BA:307:G:C2	24:BA:309:G:H5''	2.45	0.52
24:BA:349:G:H3'	24:BA:350:U:C5	2.33	0.52
24:BA:376:C:H2'	24:BA:377:C:H6	1.73	0.52
24:BA:414:C:C2'	24:BA:415:A:H8	2.06	0.52
24:BA:423:A:C8	24:BA:423:A:C3'	2.88	0.52
24:BA:511:U:C4	24:BA:512:G:H1'	2.45	0.52
24:BA:548:A:N6	24:BA:549:G:H21	2.00	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:554:U:O2'	24:BA:556:G:N7	2.33	0.52
24:BA:610:C:H2'	24:BA:611:C:C5	2.45	0.52
24:BA:693:C:O4'	24:BA:1354:A:H1'	2.10	0.52
24:BA:713:G:H2'	24:BA:714:U:OP1	2.10	0.52
24:BA:705:A:H61	24:BA:727:A:C1'	2.22	0.52
24:BA:728:G:C2	24:BA:763:G:OP1	2.63	0.52
24:BA:727:A:O2'	24:BA:728:G:O5'	2.28	0.52
24:BA:728:G:C6	24:BA:762:U:C2'	2.93	0.52
24:BA:77:C:H6	24:BA:77:C:OP2	1.92	0.52
24:BA:88:G:O2'	24:BA:89:G:H5'	2.10	0.52
27:BD:145:VAL:CB	27:BD:155:LEU:HD22	2.40	0.52
24:BA:2209:C:C1'	27:BD:150:LYS:NZ	2.65	0.52
24:BA:1803:A:O3'	27:BD:257:LEU:HD22	2.09	0.52
28:BE:51:PHE:O	28:BE:52:LEU:CD2	2.58	0.52
28:BE:91:VAL:HG11	28:BE:93:VAL:CG2	2.38	0.52
30:BG:115:ARG:C	30:BG:117:PHE:H	2.10	0.52
31:BH:122:THR:O	31:BH:133:VAL:CG2	2.58	0.52
31:BH:139:GLN:O	31:BH:140:LYS:C	2.48	0.52
31:BH:148:ILE:HG13	31:BH:162:ILE:HD12	1.92	0.52
31:BH:159:GLU:OE2	31:BH:161:GLY:N	2.34	0.52
31:BH:18:GLU:OE2	31:BH:25:LYS:CB	2.43	0.52
33:BL:103:GLN:O	33:BL:106:GLU:CD	2.48	0.52
24:BA:623:G:O5'	36:BO:105:LEU:CD2	2.56	0.52
36:BO:63:PRO:O	36:BO:65:ARG:CD	2.56	0.52
36:BO:67:MET:SD	36:BO:68:GLN:N	2.82	0.52
36:BO:80:TYR:CD2	36:BO:85:LEU:HD11	2.45	0.52
37:BP:112:GLU:CA	37:BP:115:MET:HB3	2.39	0.52
39:BR:28:VAL:HG21	39:BR:101:LEU:CB	2.40	0.52
43:BV:82:LEU:O	43:BV:97:LYS:HA	2.09	0.52
44:BW:40:LYS:NZ	44:BW:44:GLU:CD	2.63	0.52
44:BW:40:LYS:NZ	44:BW:44:GLU:OE1	2.42	0.52
44:BW:50:LYS:CG	44:BW:84:ALA:CB	2.86	0.52
45:BX:14:LEU:HB2	45:BX:20:TYR:CA	2.39	0.52
46:BY:10:ARG:HB3	46:BY:36:LYS:HD2	1.92	0.52
46:BY:57:ILE:O	46:BY:58:VAL:HG22	2.10	0.52
47:BZ:76:GLY:HA3	47:BZ:78:TYR:CE1	2.45	0.52
3:AD:56:C:H3'	3:AD:57:G:N9	2.25	0.52
24:BA:2122:U:H1'	26:BC:166:ASP:OD2	2.10	0.52
26:BC:8:ARG:HE	26:BC:12:GLU:CG	2.23	0.52
26:BC:190:ARG:H	26:BC:190:ARG:NH1	2.08	0.52
24:BA:155:C:HO2'	24:BA:161:U:H5	1.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:131:PRO:O	4:AE:134:GLU:HB2	2.10	0.52
1:AA:1017:G:O2'	1:AA:1018:C:H5'	2.10	0.52
1:AA:1128:C:O4'	1:AA:1148:U:O4	2.28	0.52
1:AA:1222:G:O2'	1:AA:1223:C:O4'	2.22	0.52
1:AA:1255:G:H21	1:AA:1276:G:N2	2.08	0.52
1:AA:1438:G:C6	1:AA:1439:C:C4	2.97	0.52
1:AA:1483:A:C2'	1:AA:1484:C:O5'	2.58	0.52
1:AA:359:U:O2'	1:AA:360:A:H5'	2.10	0.52
1:AA:377:G:H2'	1:AA:378:G:C8	2.44	0.52
1:AA:379:C:C2'	1:AA:380:G:H5'	2.38	0.52
1:AA:43:C:H2'	1:AA:44:G:H8	1.74	0.52
1:AA:702:A:O2'	1:AA:703:G:P	2.67	0.52
1:AA:582:U:C4	1:AA:760:G:O6	2.63	0.52
1:AA:787:A:C2'	1:AA:788:U:H5'	2.37	0.52
1:AA:900:A:H2'	1:AA:901:A:O5'	2.09	0.52
1:AA:978:A:C6	1:AA:1361:G:N2	2.73	0.52
2:AC:70:G:H2'	2:AC:71:C:C6	2.45	0.52
2:AC:71:C:C4	2:AC:72:A:N7	2.77	0.52
4:AE:107:THR:C	4:AE:109:SER:N	2.60	0.52
5:AF:120:VAL:CG1	5:AF:133:ALA:HB1	2.39	0.52
6:AG:121:VAL:HA	6:AG:126:ILE:HG13	1.92	0.52
6:AG:92:VAL:HG12	6:AG:96:LEU:HD11	1.90	0.52
6:AG:75:PHE:CE1	6:AG:93:PHE:CZ	2.97	0.52
7:AH:119:LEU:CD2	7:AH:119:LEU:N	2.73	0.52
7:AH:75:THR:HG21	7:AH:94:ALA:O	2.10	0.52
10:AK:33:GLU:O	10:AK:36:LEU:CG	2.51	0.52
10:AK:9:MET:HA	10:AK:26:VAL:CG2	2.36	0.52
12:AM:60:ARG:CA	12:AM:60:ARG:HH11	2.23	0.52
12:AM:75:ILE:HG22	12:AM:76:ASN:N	2.24	0.52
1:AA:692:U:O4	13:AN:52:GLY:C	2.48	0.52
1:AA:266:G:H8	19:AT:67:LYS:CE	2.23	0.52
19:AT:84:LEU:O	19:AT:87:LYS:N	2.43	0.52
20:AU:31:LEU:HD22	20:AU:65:ILE:CD1	2.40	0.52
20:AU:37:VAL:HG12	20:AU:41:LYS:CE	2.40	0.52
20:AU:66:LEU:CD1	20:AU:67:ALA:H	2.18	0.52
22:AW:31:SER:O	22:AW:34:LYS:HB2	2.09	0.52
44:BW:7:VAL:HG13	48:B1:31:ARG:HH22	1.75	0.52
48:B1:63:ARG:O	48:B1:66:ASN:HB3	2.10	0.52
50:B3:65:ASP:O	50:B3:66:SER:C	2.47	0.52
52:B5:19:ARG:HG3	52:B5:44:ARG:HH11	1.71	0.52
52:B5:16:CYS:SG	52:B5:41:PRO:HB3	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:33:ARG:HA	53:B6:37:LYS:CD	2.40	0.52
24:BA:1028:A:N1	24:BA:1029:A:C6	2.78	0.52
24:BA:1068:G:N2	24:BA:1073:A:C2	2.77	0.52
24:BA:1119:C:O2	24:BA:1119:C:C2'	2.56	0.52
24:BA:1168:G:C6	24:BA:1182:A:N1	2.78	0.52
24:BA:1215:G:H8	24:BA:1215:G:O5'	1.92	0.52
24:BA:1444(A):A:H8	24:BA:1460:A:O2'	1.91	0.52
24:BA:1557:C:H5''	24:BA:1558:A:OP2	2.09	0.52
24:BA:1650:G:H5'	38:BQ:104:ARG:HH21	1.74	0.52
24:BA:1675:C:H2'	24:BA:1676:A:O4'	2.10	0.52
24:BA:1769:G:H2'	24:BA:1770:G:H8	1.75	0.52
24:BA:189:G:H2'	24:BA:205:G:H22	1.74	0.52
24:BA:1904:G:C2	24:BA:1905:C:C6	2.97	0.52
24:BA:1907:G:C6	24:BA:1908:C:C4	2.98	0.52
24:BA:1959:G:C4	24:BA:1960:A:C8	2.98	0.52
24:BA:1964:G:H8	24:BA:1964:G:OP1	1.93	0.52
24:BA:2014:A:C4	24:BA:2015:A:N1	2.78	0.52
24:BA:2028:U:H2'	24:BA:2029:G:N7	2.25	0.52
24:BA:2216:G:O5'	24:BA:2216:G:H8	1.92	0.52
24:BA:2270:G:O6	24:BA:2271:G:C2	2.63	0.52
24:BA:2287:A:N7	24:BA:2289:G:N7	2.58	0.52
24:BA:2346:A:HO2'	24:BA:2383:G:H8	1.56	0.52
24:BA:2376:A:N6	39:BR:94:TYR:CD2	2.78	0.52
24:BA:2407:G:H5''	24:BA:2408:U:C4	2.45	0.52
24:BA:2417:C:C2	24:BA:2418:A:N7	2.78	0.52
24:BA:2485:G:HO2'	24:BA:2486:G:H5'	1.74	0.52
24:BA:2074:U:O2'	24:BA:2598:A:H1'	2.09	0.52
24:BA:2599:G:O2'	24:BA:2600:A:C5'	2.54	0.52
24:BA:2712(A):A:H5''	24:BA:2713:A:H5''	1.90	0.52
24:BA:2781:A:C2'	24:BA:2782:G:O2'	2.52	0.52
24:BA:282:A:C8	24:BA:282:A:C3'	2.92	0.52
24:BA:311:A:O2'	24:BA:312:G:OP2	2.26	0.52
24:BA:323:G:P	24:BA:340:A:N1	2.83	0.52
24:BA:346:A:O2'	24:BA:347:A:N7	2.42	0.52
24:BA:460:A:H3'	24:BA:461:C:C6	2.45	0.52
24:BA:541:C:H3'	24:BA:542:C:H6	1.73	0.52
24:BA:578:A:H2	41:BT:34:LYS:NZ	2.08	0.52
24:BA:64:A:H5''	44:BW:73:ARG:HA	1.90	0.52
24:BA:627:A:C2	24:BA:651:G:H5'	2.43	0.52
24:BA:602:G:N2	24:BA:655:A:H2'	2.20	0.52
24:BA:715:G:C6	24:BA:716:A:N6	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:790:C:H4'	24:BA:1781:C:N4	2.25	0.52
24:BA:919:G:C2'	24:BA:920:G:O5'	2.58	0.52
24:BA:928:G:C6	24:BA:929:G:H1'	2.45	0.52
24:BA:967:C:H2'	24:BA:968:G:C8	2.43	0.52
24:BA:976:C:H5''	24:BA:1156:A:H62	1.71	0.52
27:BD:89:SER:OG	27:BD:158:ALA:CB	2.58	0.52
27:BD:54:ARG:O	27:BD:218:ARG:NH1	2.42	0.52
24:BA:1675:C:N4	28:BE:129:HIS:CD2	2.77	0.52
28:BE:85:ASN:C	28:BE:87:GLU:H	2.11	0.52
29:BF:158:THR:HG23	29:BF:159:GLY:N	2.24	0.52
29:BF:194:MET:CE	29:BF:195:ASP:N	2.72	0.52
29:BF:89:VAL:C	29:BF:91:GLY:H	2.03	0.52
30:BG:55:LYS:CB	30:BG:151:ALA:HB1	2.32	0.52
30:BG:174:GLU:OE2	30:BG:175:LEU:CB	2.58	0.52
31:BH:168:PRO:O	31:BH:169:VAL:O	2.28	0.52
31:BH:41:MET:HE1	31:BH:68:THR:HG21	1.91	0.52
31:BH:7:LEU:C	31:BH:51:ARG:NH2	2.63	0.52
31:BH:89:ILE:HG22	31:BH:131:VAL:HB	1.91	0.52
32:BK:6:LEU:O	32:BK:15:VAL:N	2.33	0.52
33:BL:103:GLN:O	33:BL:106:GLU:HG3	2.10	0.52
33:BL:38:VAL:HG12	33:BL:39:LYS:N	2.25	0.52
34:BM:55:VAL:HG22	34:BM:124:ALA:N	2.24	0.52
34:BM:70:LYS:N	34:BM:70:LYS:HD3	2.24	0.52
34:BM:74:ARG:O	34:BM:74:ARG:HG2	2.08	0.52
38:BQ:45:ARG:O	38:BQ:46:GLY:C	2.48	0.52
39:BR:106:ARG:HH22	39:BR:110:LEU:CB	2.19	0.52
39:BR:75:GLU:N	39:BR:108:GLY:HA2	2.25	0.52
40:BS:113:LYS:CA	40:BS:116:ALA:HB3	2.37	0.52
24:BA:2848:G:C1'	40:BS:99:LEU:HD21	2.39	0.52
24:BA:532:A:OP1	41:BT:28:ARG:NH1	2.42	0.52
42:BU:67:GLY:HA2	42:BU:94:LEU:CA	2.40	0.52
43:BV:72:LYS:O	43:BV:106:ILE:CG2	2.52	0.52
24:BA:1312:U:H5'	44:BW:72:LYS:HZ1	1.74	0.52
45:BX:96:ILE:O	45:BX:102:CYS:O	2.28	0.52
45:BX:84:ARG:HG2	45:BX:85:VAL:H	1.73	0.52
46:BY:114:GLY:C	46:BY:116:VAL:H	2.12	0.52
46:BY:87:ASP:C	46:BY:88:PHE:CD2	2.83	0.52
47:BZ:46:LYS:HG2	47:BZ:77:ARG:C	2.29	0.52
24:BA:2147:G:C2	24:BA:2148:G:C4'	2.92	0.52
26:BC:190:ARG:CD	26:BC:193:ILE:HD12	2.38	0.52
26:BC:194:ARG:NH1	26:BC:194:ARG:HG3	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:225:ASN:O	26:BC:227:HIS:N	2.42	0.52
24:BA:2142:C:H2'	24:BA:2143:C:C6	2.45	0.52
1:AA:920:U:H4'	1:AA:1080:A:H62	1.75	0.52
1:AA:1159:U:C5	1:AA:1182:G:H1'	2.45	0.52
1:AA:1186:G:C2	1:AA:1187:G:C8	2.98	0.52
1:AA:1187:G:C6	1:AA:1188:A:N6	2.78	0.52
1:AA:1239:A:H1'	1:AA:1241:G:C5	2.45	0.52
1:AA:1278:U:C6	1:AA:1278:U:C3'	2.92	0.52
1:AA:1329:A:H5''	15:AP:29:ARG:HG2	1.92	0.52
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.45	0.52
1:AA:145:G:H2'	1:AA:146:G:H5'	1.92	0.52
1:AA:1502:A:C6	1:AA:1504:G:C2	2.96	0.52
1:AA:332:G:C2'	1:AA:333:G:H5'	2.39	0.52
1:AA:421:U:C4	5:AF:127:ARG:NH1	2.78	0.52
1:AA:428:G:O4'	1:AA:430:A:C8	2.63	0.52
1:AA:503:C:N3	1:AA:504:C:C5	2.78	0.52
1:AA:558:G:O5'	1:AA:559:A:C3'	2.51	0.52
1:AA:947:G:N3	1:AA:948:C:C6	2.78	0.52
1:AA:948:C:P	15:AP:109:THR:H	2.32	0.52
1:AA:970:C:H42	15:AP:126:LYS:HZ2	1.56	0.52
2:AC:19:G:N1	2:AC:56:C:N4	2.56	0.52
4:AE:196:LEU:HD12	4:AE:197:VAL:HA	1.91	0.52
4:AE:82:ARG:H	4:AE:94:ASN:HD21	1.57	0.52
5:AF:63:ASN:O	5:AF:99:VAL:HG12	2.09	0.52
7:AH:109:ILE:HD13	7:AH:139:LEU:HD12	1.92	0.52
9:AJ:71:PRO:CG	9:AJ:96:GLN:HG3	2.39	0.52
10:AK:10:LEU:HB3	10:AK:83:ILE:HD11	1.91	0.52
10:AK:112:LEU:CD2	10:AK:114:THR:HG23	2.38	0.52
10:AK:137:VAL:CG1	10:AK:138:TRP:N	2.72	0.52
10:AK:20:TYR:HE2	10:AK:75:ARG:HD2	1.74	0.52
1:AA:1342:C:O2'	11:AL:124:GLN:HA	2.09	0.52
11:AL:15:ALA:HB1	11:AL:77:ILE:CA	2.40	0.52
11:AL:89:ASN:C	11:AL:91:ASP:N	2.63	0.52
12:AM:79:ARG:O	12:AM:79:ARG:NH1	2.42	0.52
12:AM:9:ARG:HH11	12:AM:9:ARG:HB2	1.73	0.52
14:AO:41:ARG:NH2	14:AO:57:LYS:HZ2	1.88	0.52
15:AP:67:GLU:OE2	15:AP:68:GLY:N	2.43	0.52
16:AQ:26:ARG:C	16:AQ:28:GLY:H	2.13	0.52
1:AA:1358:U:OP1	16:AQ:34:TYR:HA	2.10	0.52
17:AR:31:LEU:CA	17:AR:34:LEU:HD23	2.32	0.52
18:AS:20:VAL:HG13	18:AS:21:VAL:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:277:C:OP1	19:AT:41:LYS:CD	2.58	0.52
19:AT:59:ILE:HD11	19:AT:72:ARG:N	2.24	0.52
48:B1:14:VAL:HA	48:B1:17:GLU:CD	2.29	0.52
48:B1:29:GLU:HA	48:B1:32:PHE:CD1	2.45	0.52
48:B1:51:GLN:HA	48:B1:54:ARG:HG3	1.92	0.52
49:B2:28:LEU:CA	49:B2:33:GLN:NE2	2.72	0.52
50:B3:59:PHE:N	50:B3:62:ARG:HH21	2.08	0.52
50:B3:65:ASP:CA	50:B3:68:ARG:NH1	2.72	0.52
51:B4:31:VAL:O	51:B4:39:MET:CB	2.57	0.52
51:B4:55:ARG:C	51:B4:56:LYS:HG2	2.29	0.52
24:BA:1142(A):A:P	24:BA:1143:A:H5'	2.49	0.52
24:BA:1141:U:O2'	24:BA:1142:U:OP2	2.16	0.52
24:BA:1206:G:P	24:BA:1206:G:C8	3.03	0.52
24:BA:1248:G:C8	41:BT:2:PRO:O	2.62	0.52
24:BA:1285:G:C6	24:BA:1329:U:C6	2.98	0.52
24:BA:137(A):G:C8	24:BA:139:G:H5''	2.45	0.52
24:BA:1411:C:N4	24:BA:1412:A:H62	2.08	0.52
24:BA:1444(A):A:C8	24:BA:1460:A:C2'	2.77	0.52
24:BA:1352:U:O2'	24:BA:1570:A:N3	2.37	0.52
24:BA:1549:C:HO2'	24:BA:1733:G:HO2'	1.50	0.52
24:BA:1761:C:H5'	24:BA:1762:A:OP2	2.09	0.52
24:BA:1839:G:C6	24:BA:1840:G:C8	2.97	0.52
24:BA:195:A:N6	24:BA:198:C:OP2	2.42	0.52
24:BA:2021:C:H2'	24:BA:2022:U:OP1	2.10	0.52
24:BA:2034:U:C2'	24:BA:2034:U:O2	2.56	0.52
24:BA:2254:C:C2'	24:BA:2255:G:C5'	2.80	0.52
24:BA:2286:A:N7	52:B5:31:PRO:CB	2.70	0.52
24:BA:2289:G:H5'	24:BA:2384:G:O2'	2.10	0.52
24:BA:2321:G:N2	24:BA:2322:A:H1'	2.24	0.52
24:BA:2399:G:N2	52:B5:21:TYR:OH	2.43	0.52
24:BA:410:G:N2	24:BA:2407:G:N7	2.57	0.52
24:BA:2416:C:O2	24:BA:2417:C:C6	2.63	0.52
24:BA:945:A:C5	24:BA:2448:A:C2	2.97	0.52
24:BA:2060:A:C8	24:BA:2502:G:C2	2.97	0.52
24:BA:2504:U:C3'	24:BA:2504:U:C6	2.93	0.52
24:BA:2580:U:OP2	24:BA:2581:G:O6	2.28	0.52
24:BA:2634:G:H2'	24:BA:2635:C:H6	1.75	0.52
24:BA:2781:A:H2'	24:BA:2782:G:H4'	1.92	0.52
24:BA:2830:G:H5'	28:BE:57:LYS:HE2	1.90	0.52
24:BA:2850:A:C2	38:BQ:61:HIS:CE1	2.98	0.52
24:BA:2881:C:C5'	38:BQ:90:ARG:HH22	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:374:A:C4	24:BA:375:C:C6	2.98	0.52
24:BA:223:A:C5	24:BA:408:G:C1'	2.92	0.52
24:BA:422:A:H2'	24:BA:423:A:O5'	2.10	0.52
24:BA:455:C:O2'	24:BA:456:C:C5'	2.57	0.52
24:BA:613:U:C5	24:BA:614:U:O2	2.60	0.52
24:BA:596:G:H1'	24:BA:662:G:N2	2.24	0.52
24:BA:730:C:C5'	24:BA:761:A:OP1	2.55	0.52
24:BA:911:A:C2	37:BP:13:GLN:OE1	2.62	0.52
24:BA:919:G:N2	24:BA:920:G:C1'	2.72	0.52
24:BA:944:G:H5''	24:BA:945:A:O5'	2.10	0.52
24:BA:958:U:H2'	24:BA:959:A:OP2	2.10	0.52
25:BB:91:C:H2'	25:BB:92:G:O4'	2.10	0.52
27:BD:117:VAL:HG13	27:BD:129:ASN:CA	2.40	0.52
27:BD:124:PRO:O	27:BD:126:GLN:N	2.41	0.52
27:BD:141:VAL:HG12	27:BD:194:GLY:O	2.09	0.52
24:BA:2597:G:H5'	27:BD:242:ARG:NE	2.24	0.52
27:BD:51:VAL:HG12	27:BD:52:ARG:N	2.24	0.52
28:BE:118:LYS:CE	28:BE:118:LYS:HA	2.40	0.52
29:BF:110:LEU:CA	29:BF:183:VAL:HG22	2.38	0.52
15:AP:7:VAL:CG2	30:BG:115:ARG:HH22	2.22	0.52
30:BG:130:ASN:CG	30:BG:161:THR:H	2.11	0.52
31:BH:24:VAL:O	31:BH:24:VAL:HG22	2.08	0.52
31:BH:25:LYS:HD3	31:BH:27:LYS:HZ3	1.74	0.52
31:BH:17:VAL:CG1	31:BH:45:VAL:HG11	2.39	0.52
31:BH:72:ILE:O	31:BH:75:ALA:HB3	2.09	0.52
32:BK:26:ALA:HA	32:BK:30:LEU:HD13	1.92	0.52
32:BK:4:ILE:CG1	32:BK:39:ALA:N	2.73	0.52
34:BM:48:MET:O	34:BM:50:ASP:N	2.43	0.52
34:BM:57:ALA:HA	34:BM:60:ILE:CG1	2.40	0.52
34:BM:7:LYS:HE3	34:BM:7:LYS:N	2.25	0.52
35:BN:13:ASN:OD1	35:BN:52:VAL:HB	2.09	0.52
36:BO:128:HIS:HA	36:BO:147:LEU:CD2	2.40	0.52
36:BO:127:ALA:C	36:BO:147:LEU:HD21	2.28	0.52
36:BO:37:GLY:C	36:BO:40:SER:HB3	2.30	0.52
37:BP:54:MET:HE1	37:BP:118:LEU:N	2.25	0.52
38:BQ:103:ARG:CB	38:BQ:108:GLY:HA2	2.32	0.52
38:BQ:50:HIS:O	38:BQ:54:LEU:HD12	2.09	0.52
39:BR:23:ARG:NH1	39:BR:42:ASP:HB3	2.23	0.52
40:BS:7:ILE:CG1	40:BS:8:LYS:N	2.72	0.52
24:BA:2020:A:OP1	41:BT:27:LEU:HD13	2.08	0.52
42:BU:22:VAL:HG12	42:BU:23:GLU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:35:LEU:CA	42:BU:61:VAL:HG13	2.39	0.52
44:BW:43:VAL:HG12	44:BW:51:VAL:HG22	1.92	0.52
45:BX:14:LEU:HD23	45:BX:17:SER:OG	2.09	0.52
45:BX:81:LYS:CD	45:BX:96:ILE:HG12	2.40	0.52
45:BX:83:THR:O	45:BX:94:LYS:HA	2.09	0.52
46:BY:126:VAL:O	46:BY:165:VAL:CG2	2.56	0.52
46:BY:76:LEU:CA	46:BY:82:ARG:O	2.58	0.52
32:BK:66:GLU:C	32:BK:69:LYS:HG3	2.30	0.52
26:BC:134:ARG:CB	26:BC:134:ARG:CZ	2.88	0.52
1:AA:1038:C:O2	1:AA:1039:C:C5	2.62	0.52
24:BA:162:U:OP2	24:BA:171:G:C6	2.63	0.52
28:BE:206:LYS:NZ	28:BE:206:LYS:HB3	2.25	0.52
1:AA:1129:C:C6	1:AA:1129:C:OP2	2.63	0.52
1:AA:1191:A:P	5:AF:4:LYS:NZ	2.83	0.52
1:AA:1216:G:C4	1:AA:1217:C:C5	2.98	0.52
1:AA:1225:A:H3'	1:AA:1226:C:H6	1.75	0.52
1:AA:1271:G:OP1	1:AA:1314:C:C5'	2.49	0.52
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.33	0.52
1:AA:1326:C:C2	1:AA:1327:C:C6	2.98	0.52
1:AA:1373:G:H4'	9:AJ:34:GLY:O	2.10	0.52
1:AA:129(A):G:N2	1:AA:191(A):G:C8	2.78	0.52
1:AA:195:A:C5	1:AA:196:A:C2	2.98	0.52
1:AA:322:C:O2'	22:AW:23:ARG:HB2	2.09	0.52
1:AA:109:A:N7	1:AA:326:G:C2	2.78	0.52
1:AA:458:C:C2	1:AA:475:G:C2	2.97	0.52
1:AA:671:G:H3'	1:AA:672:U:H6	1.73	0.52
1:AA:734:G:OP1	1:AA:734:G:C8	2.63	0.52
1:AA:792:A:C4	1:AA:794:A:N6	2.78	0.52
1:AA:861:G:H2'	1:AA:862:C:C6	2.44	0.52
1:AA:934:C:H5	1:AA:1344:C:C2	2.28	0.52
1:AA:978:A:H3'	1:AA:980:C:H41	1.75	0.52
4:AE:178:ARG:HE	4:AE:196:LEU:CD1	2.23	0.52
4:AE:33:TYR:HB2	4:AE:42:ILE:C	2.30	0.52
4:AE:35:GLU:OE2	4:AE:36:ARG:C	2.48	0.52
5:AF:47:LEU:N	5:AF:47:LEU:CD2	2.66	0.52
6:AG:101:LEU:CD2	6:AG:138:TYR:HB3	2.40	0.52
6:AG:135:LEU:HB3	6:AG:137:SER:OG	2.09	0.52
6:AG:101:LEU:HD23	6:AG:138:TYR:HB3	1.92	0.52
6:AG:196:LEU:N	6:AG:196:LEU:CD2	2.60	0.52
6:AG:61:LYS:HA	6:AG:203:VAL:CG1	2.40	0.52
1:AA:544:G:OP1	6:AG:66:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:8:VAL:HG21	6:AG:115:ARG:NH2	2.25	0.52
7:AH:107:ARG:CZ	7:AH:107:ARG:HB2	2.40	0.52
7:AH:70:PRO:O	7:AH:76:ILE:HG12	2.10	0.52
8:AI:47:ARG:HD3	8:AI:57:GLN:HG3	1.90	0.52
10:AK:83:ILE:HA	10:AK:136:GLU:O	2.10	0.52
11:AL:114:TYR:HA	12:AM:60:ARG:NH2	2.24	0.52
11:AL:27:THR:HA	11:AL:31:GLN:O	2.10	0.52
15:AP:7:VAL:N	30:BG:114:ILE:CD1	2.73	0.52
16:AQ:15:LYS:O	16:AQ:16:PHE:HB2	2.10	0.52
5:AF:12:LEU:HD11	16:AQ:57:ARG:CB	2.40	0.52
1:AA:227:G:O2'	18:AS:62:VAL:HG11	2.10	0.52
19:AT:70:ARG:C	19:AT:71:PHE:HD1	2.13	0.52
19:AT:76:LEU:HD23	19:AT:77:VAL:N	2.24	0.52
20:AU:39:VAL:O	20:AU:40:LEU:C	2.45	0.52
21:AV:30:LEU:HD12	21:AV:59:PRO:CA	2.40	0.52
1:AA:1459:C:P	22:AW:27:LYS:NZ	2.83	0.52
48:B1:25:ARG:O	48:B1:28:MET:CB	2.54	0.52
49:B2:23:LEU:CB	49:B2:28:LEU:HD12	2.40	0.52
43:BV:38:TYR:CD2	51:B4:39:MET:HE2	2.44	0.52
53:B6:24:THR:CG2	53:B6:27:GLY:HA3	2.38	0.52
54:B7:33:ASN:O	54:B7:34:TRP:HB2	2.10	0.52
54:B7:22:VAL:N	54:B7:48:PHE:CE1	2.70	0.52
55:B8:10:ILE:N	55:B8:10:ILE:HD12	2.24	0.52
24:BA:1120:G:C2	24:BA:1121:C:C6	2.98	0.52
24:BA:1138:G:N2	24:BA:1139:G:H1'	2.23	0.52
24:BA:1155:A:C3'	24:BA:1156:A:H5''	2.35	0.52
24:BA:1226:G:H3'	24:BA:1226:G:H8	1.75	0.52
24:BA:1239:G:H2'	24:BA:1240:U:C4'	2.40	0.52
24:BA:1349:A:H5'	24:BA:1350:C:H5''	1.90	0.52
24:BA:1405:U:H2'	24:BA:1406:U:H5	1.67	0.52
24:BA:1444(A):A:N6	24:BA:1462:C:OP1	2.43	0.52
24:BA:1476:C:H5	24:BA:1477:A:C4	2.27	0.52
24:BA:1526:G:N2	24:BA:1546:C:N3	2.58	0.52
24:BA:1534:G:C2'	24:BA:1536:A:N7	2.73	0.52
24:BA:1541:U:O2	24:BA:1541:U:C2'	2.57	0.52
24:BA:1552:G:C5'	24:BA:1553:A:OP1	2.56	0.52
24:BA:1605:C:C1'	24:BA:1610:A:N7	2.73	0.52
24:BA:1683:C:C2	24:BA:1684:C:H5	2.28	0.52
24:BA:1743:G:H5''	24:BA:1743:G:H8	1.74	0.52
24:BA:1755:A:H5'	24:BA:1756:G:OP2	2.08	0.52
24:BA:1785:A:OP1	24:BA:1982:C:C4'	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1790:C:C2	24:BA:1791:A:N6	2.77	0.52
24:BA:1800:C:HO2'	24:BA:1802:A:C1'	2.22	0.52
24:BA:183:C:H1'	24:BA:433:C:C1'	2.35	0.52
24:BA:1893:C:C2	24:BA:1894:C:C6	2.98	0.52
24:BA:1908:C:O2'	24:BA:1909:C:O5'	2.27	0.52
24:BA:2027:G:C2	24:BA:2028:U:C1'	2.91	0.52
24:BA:2077:A:C6	24:BA:2078:C:N4	2.78	0.52
24:BA:2259:G:C2	24:BA:2282:G:C6	2.98	0.52
24:BA:2304:G:C4'	30:BG:132:ASN:ND2	2.58	0.52
24:BA:2323:G:C2	24:BA:2324:C:C4	2.98	0.52
24:BA:2401:U:H2'	24:BA:2402:C:O4'	2.10	0.52
24:BA:1128:A:C6	24:BA:2518:A:N6	2.77	0.52
24:BA:2539:C:HO2'	24:BA:2540:C:H5'	1.73	0.52
24:BA:2553:G:H2'	24:BA:2553:G:N3	2.25	0.52
24:BA:2555:U:H6	24:BA:2555:U:C3'	1.99	0.52
24:BA:2569:G:C2	24:BA:2570:G:N7	2.77	0.52
24:BA:2600:A:C2	24:BA:2601:C:C5	2.97	0.52
24:BA:270(M):U:H4'	24:BA:270(N):G:C5'	2.40	0.52
24:BA:2712:U:H5''	24:BA:2714:G:H4'	1.91	0.52
24:BA:2881:C:H4'	38:BQ:117:VAL:HG21	1.92	0.52
24:BA:291:C:N4	24:BA:292:C:N4	2.58	0.52
24:BA:307:G:N2	24:BA:310:A:C5'	2.73	0.52
24:BA:356:G:C3'	24:BA:357:A:H8	2.22	0.52
24:BA:371:A:HO2'	24:BA:372:G:P	2.27	0.52
24:BA:404:C:H2'	24:BA:404:C:O2	2.10	0.52
24:BA:497:A:N1	24:BA:498:G:N2	2.57	0.52
24:BA:508:G:O2'	24:BA:509:C:H5''	2.10	0.52
24:BA:565:C:O2'	24:BA:1253:A:C2	2.62	0.52
24:BA:714:U:C4	24:BA:716:A:OP2	2.63	0.52
24:BA:721:C:H2'	24:BA:722:A:C8	2.45	0.52
24:BA:85:G:H2'	24:BA:86:C:C6	2.44	0.52
24:BA:879:G:N7	24:BA:899:A:C2	2.77	0.52
25:BB:7:G:C6	25:BB:8:U:N3	2.78	0.52
27:BD:105:ILE:O	27:BD:106:ILE:C	2.48	0.52
27:BD:123:ALA:HB1	27:BD:124:PRO:HD2	1.91	0.52
24:BA:2210:G:C8	27:BD:150:LYS:HA	2.44	0.52
24:BA:1820:U:C5	27:BD:159:ALA:O	2.63	0.52
27:BD:127:VAL:CA	27:BD:193:VAL:HG11	2.29	0.52
28:BE:38:THR:HA	28:BE:42:ASP:HA	1.90	0.52
28:BE:98:PRO:HD3	28:BE:175:VAL:CG1	2.39	0.52
29:BF:139:PHE:CD2	29:BF:166:ALA:CB	2.80	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:121:GLY:CA	29:BF:191:ARG:HH11	2.23	0.52
15:AP:3:ARG:HH22	30:BG:113:ARG:NH2	2.04	0.52
30:BG:134:GLY:HA3	30:BG:156:ASP:CG	2.30	0.52
30:BG:13:GLU:O	30:BG:17:PRO:HD2	2.10	0.52
30:BG:49:ASP:CA	30:BG:53:LEU:HD13	2.40	0.52
31:BH:115:VAL:CG1	31:BH:116:GLU:N	2.73	0.52
32:BK:21:VAL:O	32:BK:26:ALA:N	2.38	0.52
32:BK:5:LEU:HB3	32:BK:8:PRO:HB2	1.91	0.52
33:BL:10:LEU:HD21	33:BL:41:PHE:CZ	2.44	0.52
34:BM:103:VAL:CG2	34:BM:104:LYS:HE2	2.40	0.52
34:BM:87:LEU:HD21	34:BM:88:GLU:OE1	2.10	0.52
35:BN:41:ALA:O	35:BN:56:ASP:HA	2.08	0.52
36:BO:131:SER:N	36:BO:134:ALA:HB3	2.23	0.52
36:BO:11:GLY:N	36:BO:14:LYS:HE3	2.25	0.52
36:BO:55:ARG:O	36:BO:56:SER:HB2	2.10	0.52
36:BO:80:TYR:CZ	36:BO:85:LEU:HD21	2.44	0.52
36:BO:97:PRO:HD3	36:BO:102:ARG:NH2	2.25	0.52
37:BP:8:LYS:HZ1	37:BP:72:LYS:C	2.13	0.52
38:BQ:28:LEU:HD13	38:BQ:28:LEU:C	2.28	0.52
38:BQ:54:LEU:HD21	38:BQ:65:LEU:HD13	1.92	0.52
39:BR:30:ARG:HB2	39:BR:34:HIS:CD2	2.45	0.52
40:BS:111:ARG:HH11	40:BS:111:ARG:CB	2.22	0.52
40:BS:45:PHE:CZ	40:BS:87:ASP:CB	2.84	0.52
40:BS:28:VAL:CG2	40:BS:93:ARG:C	2.62	0.52
41:BT:55:ARG:CA	41:BT:58:ARG:HG2	2.39	0.52
41:BT:70:ARG:HD2	41:BT:75:ASN:ND2	2.24	0.52
42:BU:11:GLN:HB3	42:BU:21:ARG:HD2	1.92	0.52
42:BU:68:LYS:NZ	42:BU:95:LEU:HD11	2.25	0.52
42:BU:65:GLY:CA	42:BU:97:LYS:HE3	2.39	0.52
46:BY:138:GLU:O	46:BY:139:VAL:HG22	2.10	0.52
46:BY:14:LYS:O	46:BY:15:PRO:C	2.48	0.52
47:BZ:12:ASN:O	47:BZ:14:ARG:HG2	2.10	0.52
47:BZ:1:MET:O	47:BZ:2:ALA:HB2	2.10	0.52
47:BZ:72:ARG:O	47:BZ:75:LEU:CD1	2.52	0.52
3:AD:58:A:H2'	3:AD:61:C:C5	2.45	0.52
26:BC:119:VAL:HG23	26:BC:123:VAL:CG2	2.40	0.52
26:BC:8:ARG:CZ	26:BC:12:GLU:HG2	2.39	0.52
26:BC:5:LYS:O	26:BC:7:TYR:N	2.43	0.52
25:BB:3:C:O2'	25:BB:4:C:H5'	2.10	0.52
1:AA:1048:G:O4'	1:AA:1215:G:H5''	2.10	0.52
1:AA:1196:U:H4'	1:AA:1197:G:O5'	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.74	0.52
1:AA:1413:A:O2'	1:AA:1414:U:C5'	2.57	0.52
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.10	0.52
1:AA:19:C:N3	1:AA:20:U:C5	2.77	0.52
1:AA:325:A:H2'	1:AA:326:G:H5'	1.92	0.52
1:AA:588:G:H2'	1:AA:588:G:N3	2.25	0.52
1:AA:591:U:O2'	1:AA:592:G:H5'	2.10	0.52
1:AA:605:U:H2'	1:AA:606:G:C8	2.45	0.52
1:AA:622:A:C2'	1:AA:623:C:O5'	2.57	0.52
1:AA:738:C:N4	1:AA:739:C:N4	2.57	0.52
1:AA:80:G:H2'	1:AA:81:G:C8	2.45	0.52
1:AA:943:U:O2'	1:AA:944:G:H5'	2.09	0.52
1:AA:969:A:OP1	1:AA:969:A:C4'	2.57	0.52
1:AA:988:G:C2	1:AA:989:C:C2	2.98	0.52
3:AD:73:A:N3	3:AD:73:A:H2'	2.25	0.52
4:AE:163:PHE:CD2	4:AE:164:VAL:N	2.77	0.52
4:AE:164:VAL:O	4:AE:165:VAL:O	2.27	0.52
4:AE:72:GLY:HA3	4:AE:165:VAL:HG11	1.91	0.52
5:AF:136:GLN:O	5:AF:137:ALA:C	2.49	0.52
5:AF:88:ARG:HD3	5:AF:99:VAL:O	2.10	0.52
6:AG:120:LEU:HG	6:AG:121:VAL:N	2.25	0.52
6:AG:102:ASP:CB	6:AG:136:PRO:O	2.57	0.52
6:AG:200:GLU:HG3	6:AG:201:GLN:HE21	1.74	0.52
6:AG:15:GLU:CD	6:AG:59:ARG:NH2	2.62	0.52
7:AH:92:LYS:CG	7:AH:93:PRO:HD2	2.39	0.52
8:AI:4:TYR:HB3	8:AI:91:VAL:O	2.10	0.52
8:AI:77:ARG:N	8:AI:80:ARG:NE	2.58	0.52
9:AJ:118:VAL:HG12	9:AJ:122:HIS:NE2	2.24	0.52
9:AJ:37:ASN:OD1	9:AJ:38:LEU:HB2	2.10	0.52
9:AJ:42:ILE:HG23	9:AJ:117:ALA:N	2.25	0.52
10:AK:67:PRO:C	10:AK:68:ARG:O	2.44	0.52
11:AL:82:ALA:HB1	11:AL:96:LEU:HD11	1.91	0.52
12:AM:24:VAL:HG22	12:AM:34:VAL:CG1	2.32	0.52
12:AM:46:ARG:HA	12:AM:64:GLU:CB	2.38	0.52
13:AN:22:HIS:HB3	13:AN:29:ILE:HD11	1.92	0.52
18:AS:57:ARG:HG2	18:AS:79:VAL:HG13	1.92	0.52
20:AU:43:PHE:HB3	20:AU:51:LEU:HB2	1.91	0.52
22:AW:32:ALA:O	22:AW:33:ILE:C	2.47	0.52
22:AW:50:GLU:HA	22:AW:53:LEU:CD1	2.39	0.52
23:AX:7:ARG:HG3	23:AX:8:THR:N	2.21	0.52
48:B1:11:LEU:H	48:B1:11:LEU:HD12	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:38:GLN:N	48:B1:41:GLN:NE2	2.55	0.52
54:B7:15:LYS:O	54:B7:22:VAL:HG13	2.10	0.52
54:B7:44:LYS:O	54:B7:44:LYS:CG	2.51	0.52
24:BA:1027:A:N1	24:BA:1126:A:H1'	2.25	0.52
24:BA:1143:A:O2'	24:BA:1144:G:C8	2.63	0.52
24:BA:1453:A:OP2	24:BA:1453:A:H4'	2.10	0.52
24:BA:1623:G:C8	24:BA:1623:G:C5'	2.92	0.52
24:BA:1623:G:H2'	24:BA:1624:G:H5'	1.92	0.52
24:BA:1670:C:C5	24:BA:1671:U:N3	2.79	0.52
24:BA:1710:C:O5'	24:BA:1710:C:H6	1.93	0.52
24:BA:1754:C:H2'	24:BA:1755:A:O4'	2.10	0.52
24:BA:1779:U:H2'	24:BA:1783:A:H62	1.65	0.52
24:BA:1791:A:O2'	27:BD:206:LEU:CD2	2.58	0.52
24:BA:1833:U:O2	24:BA:1834:U:O2	2.29	0.52
24:BA:1935:G:O3'	24:BA:1937:A:C2	2.63	0.52
24:BA:1995:U:H3'	24:BA:1995:U:H6	1.74	0.52
24:BA:2055:C:O2	24:BA:2055:C:H2'	2.10	0.52
24:BA:2080:G:OP2	24:BA:2080:G:H8	1.93	0.52
24:BA:2093:G:C2	24:BA:2197:U:O2	2.62	0.52
24:BA:2244:U:O2	24:BA:2244:U:H2'	2.10	0.52
24:BA:2319:G:O2'	24:BA:2320:A:OP1	2.25	0.52
24:BA:2385:C:C2	24:BA:2386:C:C6	2.98	0.52
24:BA:2422:A:N3	24:BA:2424:C:C5	2.77	0.52
24:BA:2436:G:O2'	24:BA:2437:U:C5'	2.57	0.52
24:BA:2470:G:O6	24:BA:2481:G:C2	2.62	0.52
24:BA:2491:U:C4	24:BA:2492:U:H3'	2.45	0.52
24:BA:2455:G:N2	24:BA:2498:C:N4	2.57	0.52
24:BA:2051:A:N1	24:BA:2614:A:N6	2.58	0.52
24:BA:2666:C:H2'	24:BA:2667:C:H5'	1.92	0.52
24:BA:2714:G:H2'	24:BA:2715:C:H5'	1.92	0.52
24:BA:321:G:P	29:BF:135:LYS:HE3	2.50	0.52
24:BA:559:G:C5'	24:BA:559:G:H8	2.16	0.52
24:BA:640:C:O2'	24:BA:641:C:H5''	2.10	0.52
24:BA:656:G:C8	24:BA:656:G:OP2	2.63	0.52
24:BA:673:C:O2'	24:BA:674:G:H5'	2.09	0.52
24:BA:687:C:H3'	24:BA:688:U:C5	2.45	0.52
24:BA:933:A:H2'	24:BA:934:G:C5'	2.40	0.52
24:BA:957:A:N6	24:BA:959:A:C2	2.77	0.52
24:BA:979:G:N2	24:BA:985:C:H42	2.05	0.52
25:BB:12:C:O5'	47:BZ:74:ARG:NE	2.42	0.52
25:BB:44:G:H2'	25:BB:48:A:C6	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:226:MET:HE2	27:BD:235:GLY:HA2	1.92	0.52
27:BD:61:LEU:CD2	27:BD:63:ARG:HH12	2.22	0.52
27:BD:89:SER:OG	27:BD:158:ALA:HB1	2.10	0.52
28:BE:117:MET:CG	28:BE:136:ARG:HD2	2.39	0.52
28:BE:22:PRO:HG3	28:BE:183:LEU:HB3	1.91	0.52
29:BF:4:VAL:CG1	29:BF:20:LEU:HD11	2.37	0.52
30:BG:26:GLN:O	30:BG:27:ASN:HB2	2.10	0.52
30:BG:36:LYS:HZ2	30:BG:160:VAL:HG21	1.75	0.52
25:BB:43:C:O2	30:BG:95:ARG:HB3	2.10	0.52
31:BH:93:GLY:O	31:BH:107:VAL:CB	2.58	0.52
33:BL:61:ALA:O	33:BL:62:ASP:HB2	2.10	0.52
34:BM:123:TYR:CB	34:BM:129:PRO:HB2	2.40	0.52
35:BN:60:ALA:N	35:BN:86:ILE:CD1	2.71	0.52
36:BO:45:LEU:CD2	54:B7:59:LYS:HD2	2.37	0.52
24:BA:1204:A:N6	36:BO:7:ARG:NH1	2.40	0.52
36:BO:76:LYS:HZ3	36:BO:96:THR:HG21	1.70	0.52
38:BQ:11:ASN:ND2	38:BQ:12:ARG:H	2.08	0.52
38:BQ:28:LEU:C	38:BQ:28:LEU:HD22	2.31	0.52
38:BQ:8:ARG:HH21	38:BQ:21:TYR:HE1	1.58	0.52
39:BR:99:LYS:O	39:BR:102:ALA:N	2.43	0.52
40:BS:64:ARG:CZ	40:BS:77:PRO:HA	2.40	0.52
40:BS:92:GLY:HA2	40:BS:93:ARG:NH2	2.24	0.52
40:BS:92:GLY:CA	40:BS:93:ARG:NH2	2.73	0.52
42:BU:57:VAL:HG12	42:BU:58:VAL:HG23	1.92	0.52
42:BU:19:LYS:O	42:BU:96:ILE:HD11	2.10	0.52
43:BV:14:PRO:CA	43:BV:16:LYS:HZ1	2.23	0.52
43:BV:23:LEU:HD11	51:B4:26:THR:O	2.09	0.52
24:BA:748:G:C5'	43:BV:88:ARG:NH1	2.73	0.52
44:BW:20:GLY:O	44:BW:21:PHE:C	2.48	0.52
44:BW:44:GLU:HG3	44:BW:51:VAL:CG2	2.25	0.52
44:BW:48:LYS:O	44:BW:88:LYS:HE2	2.10	0.52
45:BX:29:GLU:HB3	45:BX:32:PRO:O	2.10	0.52
45:BX:47:LYS:HZ2	45:BX:51:VAL:CG1	2.20	0.52
45:BX:46:LYS:HB2	45:BX:57:GLN:HA	1.92	0.52
46:BY:47:VAL:O	46:BY:50:GLN:N	2.43	0.52
46:BY:74:VAL:HG13	46:BY:86:VAL:HA	1.91	0.52
47:BZ:49:LYS:N	47:BZ:80:HIS:ND1	2.58	0.52
32:BK:68:LEU:CD2	32:BK:107:VAL:HG21	2.29	0.52
26:BC:127:LEU:O	26:BC:128:GLY:C	2.47	0.52
24:BA:1886:C:H2'	24:BA:1887:C:H6	1.74	0.52
1:AA:1131:G:H3'	1:AA:1131:G:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1129:C:N4	1:AA:1139:G:N1	2.58	0.51
1:AA:1193:G:H2'	1:AA:1194:U:O5'	2.10	0.51
1:AA:1277:C:C5	1:AA:1278:U:O2	2.63	0.51
1:AA:1237:C:N4	1:AA:1336:C:C6	2.78	0.51
1:AA:934:C:N4	1:AA:1344:C:N3	2.58	0.51
1:AA:1397:C:C2'	1:AA:1398:A:OP2	2.58	0.51
1:AA:1415:G:C2	1:AA:1416:G:C8	2.98	0.51
1:AA:1425:U:O2'	1:AA:1426:C:H5'	2.09	0.51
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.10	0.51
1:AA:1484:C:O2'	1:AA:1485:U:H5'	2.11	0.51
1:AA:440:A:C8	1:AA:440:A:O5'	2.57	0.51
1:AA:503:C:H2'	1:AA:504:C:H6	1.75	0.51
1:AA:565:U:P	1:AA:566:G:H3'	2.51	0.51
1:AA:981:U:C3'	1:AA:981:U:C6	2.92	0.51
1:AA:986:A:H2'	1:AA:987:G:C8	2.44	0.51
2:AC:35:A:H5'	2:AC:35:A:C8	2.45	0.51
2:AC:6:G:C2'	2:AC:7:G:H8	2.21	0.51
4:AE:107:THR:HA	4:AE:110:GLN:OE1	2.11	0.51
5:AF:187:ALA:HB3	5:AF:198:VAL:HG22	1.92	0.51
5:AF:25:GLY:H	5:AF:28:GLN:NE2	2.07	0.51
5:AF:88:ARG:O	5:AF:91:LEU:HB3	2.10	0.51
6:AG:161:ASN:C	6:AG:163:GLU:N	2.63	0.51
6:AG:71:SER:O	6:AG:75:PHE:CB	2.58	0.51
9:AJ:2:ALA:HB1	9:AJ:5:ARG:NH1	2.24	0.51
10:AK:40:ALA:O	10:AK:42:GLU:N	2.43	0.51
10:AK:73:ASP:C	10:AK:73:ASP:OD2	2.48	0.51
10:AK:94:TYR:N	10:AK:94:TYR:CD1	2.78	0.51
11:AL:27:THR:HG22	11:AL:30:GLY:N	2.25	0.51
11:AL:42:ARG:HB3	11:AL:74:ILE:HD13	1.91	0.51
12:AM:13:HIS:ND1	12:AM:13:HIS:O	2.43	0.51
12:AM:32:ALA:CB	12:AM:76:ASN:HD22	2.23	0.51
13:AN:110:ASP:HB3	20:AU:85:LEU:CB	2.33	0.51
13:AN:15:ALA:HB1	13:AN:78:GLN:NE2	2.20	0.51
1:AA:707:C:H4'	13:AN:20:TYR:CD2	2.46	0.51
15:AP:102:ARG:O	15:AP:104:ARG:N	2.41	0.51
15:AP:3:ARG:HG3	15:AP:7:VAL:HG12	1.91	0.51
18:AS:4:ILE:HG23	18:AS:21:VAL:HG12	1.91	0.51
1:AA:664:G:OP1	20:AU:64:ARG:NH2	2.42	0.51
20:AU:74:ARG:CB	20:AU:81:PHE:HD2	2.22	0.51
21:AV:52:TYR:OH	21:AV:55:LYS:CA	2.57	0.51
22:AW:86:ARG:HG2	22:AW:87:LYS:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:852:G:H5'	49:B2:45:GLY:HA3	1.91	0.51
50:B3:47:GLN:CG	50:B3:50:VAL:H	2.22	0.51
51:B4:51:TYR:C	51:B4:51:TYR:HD2	2.14	0.51
54:B7:8:LYS:HE2	54:B7:11:LYS:HZ1	1.75	0.51
54:B7:53:PRO:HA	54:B7:56:GLU:CD	2.30	0.51
55:B8:5:ALA:O	55:B8:6:SER:CB	2.56	0.51
24:BA:1022:G:C2	24:BA:1139:G:C2	2.98	0.51
24:BA:1036:G:C2	24:BA:1120:G:C6	2.98	0.51
24:BA:1044:G:O4'	24:BA:1047:G:H1'	2.10	0.51
24:BA:1061:U:O3'	24:BA:1070:A:O4'	2.28	0.51
24:BA:1114:G:N2	24:BA:1115:G:C1'	2.68	0.51
24:BA:1139:G:C8	24:BA:1139:G:H3'	2.45	0.51
24:BA:1225:C:C5'	42:BU:87:HIS:ND1	2.72	0.51
24:BA:1275:A:C2	38:BQ:16:HIS:ND1	2.78	0.51
24:BA:1312:U:C5	24:BA:1313:U:C4	2.97	0.51
24:BA:143:C:O2	24:BA:144:C:C5	2.64	0.51
24:BA:1536:A:H2'	24:BA:1537:C:C5	2.44	0.51
24:BA:175:G:N2	24:BA:176:G:C1'	2.72	0.51
24:BA:1784:A:C1'	24:BA:1785:A:C5	2.90	0.51
24:BA:1990:C:N3	24:BA:1991:U:N3	2.57	0.51
24:BA:2046:G:H2'	24:BA:2047:U:C5	2.45	0.51
24:BA:2075:U:C6	24:BA:2597:G:N2	2.70	0.51
24:BA:2208:U:H1'	24:BA:2217:G:C2	2.44	0.51
24:BA:2262:U:H2'	24:BA:2263:C:H6	1.76	0.51
24:BA:227:A:HO2'	24:BA:228:A:P	2.33	0.51
24:BA:2073:C:H42	24:BA:2437:U:H3	1.57	0.51
24:BA:792:G:C6	24:BA:2440:C:N1	2.78	0.51
24:BA:2620:C:O4'	28:BE:156:MET:HG2	2.09	0.51
24:BA:2631:G:H4'	24:BA:2892:A:C4'	2.40	0.51
24:BA:2685:G:C2	24:BA:2686:G:N7	2.78	0.51
24:BA:2702:U:C6	24:BA:2702:U:H3'	2.44	0.51
24:BA:2720:U:C3'	24:BA:2721:A:C8	2.82	0.51
24:BA:2791:C:N4	24:BA:2807:G:N7	2.58	0.51
24:BA:322:A:OP2	24:BA:322:A:O4'	2.28	0.51
24:BA:46:C:N4	24:BA:214:G:C8	2.78	0.51
24:BA:506:G:H2'	24:BA:507:A:OP2	2.10	0.51
24:BA:686:G:H5'	24:BA:687:C:OP2	2.09	0.51
24:BA:728:G:C2'	24:BA:729:G:H8	2.23	0.51
24:BA:776:G:N3	24:BA:793:A:C6	2.78	0.51
24:BA:909:A:H5'	24:BA:909:A:C8	2.45	0.51
24:BA:928:G:C5	24:BA:929:G:O4'	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:996:A:N3	24:BA:997:G:C8	2.78	0.51
25:BB:9:G:O2'	39:BR:43:GLU:HB3	2.10	0.51
27:BD:57:GLY:N	27:BD:217:ARG:CD	2.73	0.51
27:BD:66:ASP:CG	27:BD:103:ARG:HD3	2.30	0.51
28:BE:36:ARG:NH2	28:BE:41:LYS:HZ1	2.08	0.51
28:BE:51:PHE:O	28:BE:52:LEU:HD22	2.10	0.51
24:BA:2787:C:C2	28:BE:61:ARG:CZ	2.93	0.51
29:BF:101:LEU:C	29:BF:101:LEU:HD13	2.30	0.51
29:BF:106:ARG:CG	29:BF:107:LYS:N	2.66	0.51
30:BG:162:THR:O	30:BG:164:GLU:N	2.33	0.51
30:BG:57:ALA:HA	30:BG:67:LYS:CA	2.40	0.51
31:BH:103:LEU:CA	31:BH:115:VAL:HG12	2.40	0.51
31:BH:155:SER:O	31:BH:157:TYR:N	2.40	0.51
31:BH:167:GLU:N	31:BH:167:GLU:OE1	2.42	0.51
31:BH:6:ARG:HG3	31:BH:65:HIS:HB3	1.93	0.51
32:BK:23:PRO:O	32:BK:24:GLY:C	2.49	0.51
33:BL:19:PRO:O	33:BL:20:ALA:C	2.48	0.51
24:BA:1076:C:H1'	33:BL:90:LYS:HG2	1.92	0.51
34:BM:99:LEU:HD12	34:BM:103:VAL:CG1	2.40	0.51
34:BM:103:VAL:CG2	34:BM:104:LYS:H	2.21	0.51
34:BM:109:LYS:HG2	34:BM:112:LEU:N	2.25	0.51
34:BM:124:ALA:O	34:BM:125:GLY:O	2.28	0.51
34:BM:56:ASN:ND2	34:BM:126:PRO:O	2.43	0.51
36:BO:131:SER:N	36:BO:134:ALA:HB2	2.25	0.51
36:BO:122:PRO:C	36:BO:138:LEU:CA	2.79	0.51
36:BO:80:TYR:OH	36:BO:98:GLU:OE2	2.22	0.51
37:BP:137:TYR:CG	37:BP:138:ASP:N	2.79	0.51
37:BP:62:GLY:CA	46:BY:177:PRO:HB2	2.40	0.51
38:BQ:77:ARG:O	38:BQ:79:LEU:N	2.43	0.51
39:BR:103:GLU:CD	39:BR:103:GLU:N	2.63	0.51
39:BR:98:VAL:O	39:BR:99:LYS:C	2.47	0.51
40:BS:11:GLU:HG2	40:BS:59:THR:OG1	2.10	0.51
24:BA:1266:G:N9	43:BV:15:ARG:NH2	2.58	0.51
24:BA:519:U:C5'	43:BV:75:TYR:HB2	2.30	0.51
45:BX:1:MET:N	45:BX:33:LYS:HZ1	2.06	0.51
46:BY:109:ALA:HB3	46:BY:144:LEU:HG	1.91	0.51
47:BZ:46:LYS:HD3	47:BZ:46:LYS:N	2.25	0.51
32:BK:139:GLN:O	32:BK:140:LEU:HG	2.09	0.51
24:BA:2148:G:O2'	24:BA:2149:G:H8	1.92	0.51
26:BC:212:VAL:O	26:BC:223:ARG:CG	2.46	0.51
24:BA:1582:C:C4	24:BA:1583:A:H8	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1041:A:C6	1:AA:1042:G:N7	2.78	0.51
1:AA:1022:G:N2	1:AA:1023:G:C4	2.78	0.51
1:AA:143:A:H8	1:AA:143:A:O5'	1.93	0.51
1:AA:1064:G:O2'	1:AA:1065:U:H1'	2.10	0.51
1:AA:1126:U:O4'	1:AA:1126:U:OP1	2.29	0.51
1:AA:111:G:H5''	1:AA:112:G:OP2	2.10	0.51
1:AA:1200:C:O5'	1:AA:1202:G:OP1	2.28	0.51
1:AA:1226:C:O2'	1:AA:1227:A:P	2.68	0.51
1:AA:1418:A:C6	1:AA:1483:A:C6	2.98	0.51
1:AA:145:G:C2	1:AA:178:C:C2	2.98	0.51
1:AA:1401:G:N1	1:AA:1504:G:N2	2.58	0.51
1:AA:173:U:H5'	1:AA:197:A:O2'	2.09	0.51
1:AA:22:G:C4	1:AA:23:C:C6	2.98	0.51
1:AA:301:G:C2	1:AA:302:G:N9	2.78	0.51
1:AA:406:G:C2	1:AA:407:G:N7	2.78	0.51
1:AA:451:A:C2	1:AA:480:U:C5	2.99	0.51
1:AA:451:A:H1'	1:AA:452:A:C5	2.45	0.51
1:AA:723:U:OP2	1:AA:724:G:H8	1.94	0.51
1:AA:797:C:C2'	1:AA:798:G:H5'	2.39	0.51
1:AA:865:A:O2'	1:AA:918:A:O2'	2.15	0.51
1:AA:965:A:O2'	1:AA:966:G:OP1	2.27	0.51
2:AC:74:C:C3'	2:AC:75:C:C5'	2.87	0.51
4:AE:139:LYS:O	4:AE:143:GLU:HB3	2.10	0.51
4:AE:115:LEU:HD23	4:AE:149:LEU:HD22	1.91	0.51
4:AE:187:LEU:C	4:AE:187:LEU:HD13	2.30	0.51
4:AE:69:LEU:O	4:AE:162:ILE:HB	2.11	0.51
6:AG:122:ARG:CA	6:AG:134:ASP:HB2	2.38	0.51
6:AG:31:CYS:SG	6:AG:33:MET:CG	2.99	0.51
6:AG:39:PRO:HG2	6:AG:44:GLY:O	2.10	0.51
6:AG:61:LYS:HE3	6:AG:62:GLN:CA	2.40	0.51
7:AH:54:ALA:O	7:AH:57:LYS:HB3	2.10	0.51
8:AI:80:ARG:NH1	8:AI:88:VAL:HG12	2.25	0.51
10:AK:18:ARG:CA	10:AK:18:ARG:NH1	2.51	0.51
11:AL:118:LYS:CB	11:AL:121:ARG:HB2	2.32	0.51
13:AN:32:ILE:C	13:AN:40:ILE:HD11	2.30	0.51
13:AN:54:ARG:O	13:AN:57:THR:HG22	2.10	0.51
13:AN:58:PRO:HB2	13:AN:93:GLN:HG3	1.92	0.51
15:AP:22:ILE:O	15:AP:25:ILE:HG13	2.10	0.51
18:AS:43:LYS:HD2	18:AS:43:LYS:N	2.25	0.51
1:AA:275:G:C5'	19:AT:14:LYS:HZ3	2.24	0.51
48:B1:43:HIS:O	48:B1:44:LYS:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:63:TYR:O	50:B3:66:SER:HB2	2.10	0.51
50:B3:65:ASP:CA	50:B3:68:ARG:NH2	2.72	0.51
51:B4:6:VAL:O	51:B4:7:PRO:O	2.28	0.51
52:B5:40:CYS:HA	52:B5:47:THR:O	2.10	0.51
53:B6:25:PRO:N	53:B6:28:ARG:HH21	2.06	0.51
54:B7:23:VAL:HG13	54:B7:47:LYS:H	1.74	0.51
54:B7:49:VAL:O	54:B7:53:PRO:CG	2.58	0.51
24:BA:1044:G:H2'	24:BA:1111:A:N3	2.25	0.51
24:BA:1071:G:C1'	24:BA:1089:G:N7	2.73	0.51
24:BA:1216:G:H2'	24:BA:1217:C:C6	2.45	0.51
24:BA:1228:G:C6	24:BA:1229:G:C5	2.98	0.51
24:BA:1264:G:C3'	24:BA:1265:A:C5'	2.86	0.51
24:BA:1364:G:N1	24:BA:1367:A:OP2	2.44	0.51
24:BA:1430:C:C2	24:BA:1431:U:C5	2.99	0.51
24:BA:1855:G:C5	24:BA:1856:G:C8	2.98	0.51
24:BA:1894:C:H2'	24:BA:1895:C:C6	2.46	0.51
24:BA:1903:G:C2	24:BA:1904:G:C8	2.99	0.51
24:BA:1906:G:C6	24:BA:1907:G:N7	2.77	0.51
24:BA:1933:G:N2	24:BA:1934:C:H1'	2.24	0.51
24:BA:1966:A:C2'	24:BA:1967:C:OP2	2.58	0.51
24:BA:1992:G:H1'	24:BA:1993:U:O4	2.10	0.51
24:BA:2019:A:C3'	24:BA:2020:A:H5''	2.15	0.51
24:BA:2085:C:H2'	24:BA:2086:U:H5'	1.92	0.51
24:BA:21:A:O2'	24:BA:22:C:H5'	2.11	0.51
24:BA:2209:C:OP2	24:BA:2210:G:P	2.69	0.51
24:BA:2244:U:H1'	24:BA:2434:A:C6	2.45	0.51
24:BA:253:C:H2'	24:BA:254:G:H5'	1.91	0.51
24:BA:2584:U:C2'	24:BA:2585:U:C6	2.92	0.51
24:BA:2711:A:OP2	24:BA:2714:G:OP1	2.27	0.51
24:BA:2739:U:H2'	24:BA:2739:U:O2	2.10	0.51
24:BA:2750:A:H5''	24:BA:2751:G:OP1	2.11	0.51
24:BA:2858:C:H5''	24:BA:2859:G:C8	2.45	0.51
24:BA:2865:U:O4	24:BA:2866:U:H5	1.92	0.51
24:BA:312:G:C2'	24:BA:312:G:N3	2.72	0.51
24:BA:630:G:N1	24:BA:634:C:N4	2.56	0.51
24:BA:83:G:O2'	24:BA:84:A:O5'	2.28	0.51
24:BA:930:U:O2	24:BA:932:G:N2	2.43	0.51
24:BA:969:U:C2	24:BA:970:C:C6	2.98	0.51
25:BB:24:G:C4	25:BB:56:G:C5	2.99	0.51
25:BB:57:A:H1'	30:BG:29:TRP:CE3	2.46	0.51
27:BD:118:VAL:HG12	27:BD:119:ALA:N	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:208:LYS:O	27:BD:211:ARG:HB2	2.10	0.51
24:BA:1566:A:C4	27:BD:215:LEU:HD22	2.44	0.51
24:BA:1789:A:OP1	27:BD:222:ARG:HG2	2.09	0.51
28:BE:117:MET:HG2	28:BE:136:ARG:HD2	1.93	0.51
24:BA:2572:A:C2	28:BE:144:ARG:NH1	2.78	0.51
28:BE:28:ALA:O	28:BE:180:ASN:OD1	2.27	0.51
28:BE:64:LYS:O	28:BE:65:GLY:C	2.49	0.51
24:BA:2636:U:C5'	28:BE:79:ARG:HD3	2.40	0.51
24:BA:586:A:C5'	29:BF:89:VAL:HG21	2.39	0.51
30:BG:128:ARG:O	30:BG:128:ARG:NE	2.43	0.51
30:BG:153:ARG:HG2	30:BG:154:GLY:N	2.24	0.51
30:BG:174:GLU:OE2	30:BG:175:LEU:HB2	2.10	0.51
30:BG:27:ASN:HB3	30:BG:29:TRP:CD2	2.45	0.51
30:BG:49:ASP:H	30:BG:53:LEU:HD13	1.75	0.51
30:BG:49:ASP:HB3	30:BG:70:VAL:HG13	1.93	0.51
25:BB:42:C:C4	30:BG:93:THR:HB	2.44	0.51
24:BA:2531:A:H62	31:BH:175:LYS:CE	2.23	0.51
31:BH:26:VAL:CG1	31:BH:76:VAL:HA	2.40	0.51
33:BL:105:LEU:CD2	33:BL:124:ALA:HB2	2.40	0.51
24:BA:558:G:OP1	34:BM:111:PRO:HG2	2.10	0.51
34:BM:127:ASP:O	34:BM:130:HIS:CB	2.58	0.51
34:BM:88:GLU:CA	34:BM:89:LYS:HZ1	2.24	0.51
35:BN:15:GLY:HA3	35:BN:52:VAL:HG21	1.92	0.51
24:BA:603:A:N6	36:BO:104:GLY:CA	2.70	0.51
37:BP:14:ARG:N	37:BP:14:ARG:NE	2.58	0.51
38:BQ:20:LEU:HD13	38:BQ:21:TYR:N	2.24	0.51
41:BT:108:GLU:HG2	41:BT:109:LEU:HD23	1.91	0.51
41:BT:44:ASN:HD21	42:BU:78:LYS:N	2.04	0.51
41:BT:79:PHE:C	41:BT:79:PHE:CD1	2.82	0.51
24:BA:996:A:H5'	41:BT:93:LYS:HG3	1.93	0.51
43:BV:98:LYS:HB3	43:BV:98:LYS:NZ	2.25	0.51
44:BW:15:GLU:O	44:BW:18:TYR:HB2	2.10	0.51
45:BX:19:LYS:CE	45:BX:40:GLU:HB2	2.40	0.51
24:BA:2153:G:O5'	24:BA:2153:G:H8	1.92	0.51
26:BC:213:TYR:CE1	26:BC:223:ARG:NH2	2.78	0.51
24:BA:2175:C:OP1	26:BC:5:LYS:CG	2.58	0.51
24:BA:2102:U:H2'	24:BA:2103:C:C6	2.46	0.51
24:BA:1886:C:N3	24:BA:1887:C:C5	2.79	0.51
18:AS:46:PRO:HG2	18:AS:47:ASP:N	2.20	0.51
24:BA:132:G:C2	24:BA:133:C:C6	2.98	0.51
27:BD:111:LEU:HD12	27:BD:115:GLN:CD	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:79:ARG:O	5:AF:79:ARG:HG3	2.10	0.51
1:AA:1145:C:O2'	1:AA:1146:A:C8	2.57	0.51
1:AA:1147:C:N3	1:AA:1148:U:C4	2.78	0.51
1:AA:1352:C:N3	1:AA:1371:G:C6	2.78	0.51
1:AA:1234:C:H5'	1:AA:1365:G:OP1	2.10	0.51
1:AA:1419:G:N1	1:AA:1482:G:C4	2.79	0.51
1:AA:819:A:N1	1:AA:1529:G:N7	2.59	0.51
1:AA:193:C:O4'	22:AW:60:GLU:HG2	2.09	0.51
1:AA:286:G:C4	1:AA:287:U:C6	2.99	0.51
1:AA:285:G:C6	1:AA:286:G:N7	2.78	0.51
1:AA:299:G:H2'	1:AA:300:A:N7	2.25	0.51
1:AA:331:G:OP1	1:AA:332:G:H5'	2.10	0.51
1:AA:405:U:O2	1:AA:405:U:H2'	2.09	0.51
1:AA:715:A:H8	1:AA:715:A:O5'	1.93	0.51
1:AA:719:C:H2'	1:AA:720:C:O4'	2.11	0.51
1:AA:73:G:N2	1:AA:74:C:C2	2.78	0.51
1:AA:744:C:O2'	1:AA:851:G:N2	2.39	0.51
1:AA:760:G:C5	1:AA:761:G:C8	2.98	0.51
1:AA:770:C:H2'	1:AA:771:G:H8	1.75	0.51
1:AA:777:A:N3	1:AA:778:G:C8	2.79	0.51
1:AA:81:G:O6	1:AA:87:A:N6	2.43	0.51
1:AA:87:A:N7	1:AA:88:C:C5	2.78	0.51
1:AA:888:G:H3'	1:AA:889:A:C8	2.46	0.51
1:AA:996:A:N3	1:AA:996:A:H2'	2.25	0.51
2:AC:43:A:N3	2:AC:44:A:C8	2.78	0.51
2:AC:75:C:P	2:AC:76:A:OP2	2.68	0.51
2:AC:9:G:N3	2:AC:45:G:H2'	2.26	0.51
4:AE:23:ARG:C	4:AE:24:TRP:CD1	2.82	0.51
4:AE:24:TRP:CZ3	4:AE:26:PRO:HA	2.45	0.51
5:AF:143:GLU:O	5:AF:145:GLY:N	2.42	0.51
5:AF:28:GLN:O	5:AF:32:LEU:HG	2.10	0.51
6:AG:26:CYS:CA	6:AG:31:CYS:CB	2.88	0.51
6:AG:7:PRO:HB2	6:AG:10:ARG:HB2	1.92	0.51
7:AH:107:ARG:HG2	7:AH:111:GLU:OE2	2.11	0.51
8:AI:15:ASP:O	8:AI:19:LEU:CD1	2.58	0.51
8:AI:94:GLN:HB2	20:AU:32:ARG:NH2	2.25	0.51
9:AJ:12:LEU:HD12	9:AJ:12:LEU:H	1.75	0.51
10:AK:26:VAL:O	10:AK:58:TYR:CE1	2.64	0.51
10:AK:6:ILE:HD12	10:AK:85:ARG:CZ	2.40	0.51
10:AK:69:ARG:HD2	10:AK:70:GLN:HG2	1.91	0.51
11:AL:96:LEU:CD1	11:AL:101:PHE:HE1	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:114:TYR:HB3	12:AM:58:ASP:OD1	2.09	0.51
13:AN:20:TYR:HE1	13:AN:33:THR:HG1	1.57	0.51
14:AO:113:ARG:NH1	14:AO:115:LYS:O	2.43	0.51
14:AO:122:THR:HG22	14:AO:123:LYS:H	1.74	0.51
15:AP:87:TYR:HB2	21:AV:73:GLU:O	2.10	0.51
16:AQ:41:ARG:O	16:AQ:44:LEU:HD23	2.11	0.51
17:AR:76:GLU:C	17:AR:78:TYR:N	2.62	0.51
18:AS:26:ARG:HB3	18:AS:30:GLY:HA3	1.92	0.51
18:AS:4:ILE:CG2	18:AS:21:VAL:HG13	2.41	0.51
22:AW:56:MET:SD	22:AW:84:LEU:CD1	2.98	0.51
1:AA:186:C:H1'	22:AW:85:MET:SD	2.50	0.51
48:B1:56:LEU:H	48:B1:56:LEU:HD22	1.75	0.51
50:B3:21:VAL:C	50:B3:22:ILE:HG13	2.31	0.51
50:B3:42:PHE:CE2	50:B3:43:TYR:O	2.63	0.51
50:B3:44:THR:O	50:B3:54:GLY:HA3	2.11	0.51
51:B4:21:SER:O	51:B4:22:HIS:C	2.46	0.51
54:B7:26:LYS:CE	54:B7:45:GLY:H	2.23	0.51
54:B7:33:ASN:O	54:B7:34:TRP:CG	2.64	0.51
24:BA:1059:G:C3'	24:BA:1059:G:C8	2.94	0.51
24:BA:1095:A:C2'	24:BA:1096:A:O4'	2.55	0.51
24:BA:1025:G:H8	24:BA:1134:G:H1'	1.74	0.51
24:BA:1139:G:C2'	24:BA:1142(A):A:C2	2.93	0.51
24:BA:1177:A:C2'	24:BA:1178:C:C6	2.84	0.51
24:BA:1403:C:OP1	24:BA:1521:G:N1	2.43	0.51
24:BA:1454:U:C5'	24:BA:1455:G:OP2	2.47	0.51
24:BA:1691:C:N3	24:BA:1692:U:C5	2.78	0.51
24:BA:1770:G:C5	24:BA:1771:C:N4	2.78	0.51
24:BA:1799:G:O2'	24:BA:1800:C:O4'	2.18	0.51
24:BA:1819:A:H5''	27:BD:178:PRO:HB2	1.91	0.51
24:BA:1989:G:C2'	24:BA:1990:C:H5'	2.40	0.51
24:BA:1268:A:C5	24:BA:2013:A:N6	2.79	0.51
24:BA:2060:A:O2'	24:BA:2061:G:P	2.68	0.51
24:BA:2077:A:H1'	24:BA:2435:A:N9	2.25	0.51
24:BA:229:A:C2'	24:BA:230:U:O5'	2.58	0.51
24:BA:2345:G:N2	24:BA:2382:G:OP2	2.42	0.51
24:BA:2349:G:C4	24:BA:2369:A:C2	2.98	0.51
24:BA:2588:G:O6	24:BA:2589:A:N6	2.43	0.51
24:BA:311:A:HO2'	24:BA:312:G:P	2.32	0.51
24:BA:328:U:C6	24:BA:328:U:C3'	2.91	0.51
24:BA:389:G:OP1	24:BA:389:G:H8	1.94	0.51
24:BA:416:C:C5	24:BA:417:C:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:589:C:N4	24:BA:590:A:H62	2.08	0.51
24:BA:609:A:N7	24:BA:609(A):G:N7	2.58	0.51
24:BA:259:G:O2'	24:BA:621:A:C1'	2.58	0.51
24:BA:729:G:C6	24:BA:730:C:C2	2.98	0.51
24:BA:943:U:C3'	24:BA:943:U:C6	2.93	0.51
24:BA:996:A:N3	24:BA:997:G:N7	2.57	0.51
25:BB:53:A:N6	25:BB:54:G:C5	2.79	0.51
27:BD:7:LYS:HD3	27:BD:25:THR:CG2	2.41	0.51
24:BA:2620:C:H4'	28:BE:156:MET:HB2	1.88	0.51
28:BE:176:ILE:HG23	28:BE:181:LEU:CB	2.40	0.51
29:BF:160:ASN:HB2	29:BF:163:VAL:CB	2.40	0.51
29:BF:200:GLU:CG	29:BF:201:VAL:N	2.72	0.51
30:BG:116:ASP:O	30:BG:118:ARG:N	2.43	0.51
30:BG:170:ARG:HD3	30:BG:170:ARG:C	2.31	0.51
31:BH:155:SER:HB2	31:BH:158:HIS:O	2.10	0.51
32:BK:38:LEU:O	32:BK:43:ASN:OD1	2.29	0.51
35:BN:11:ALA:O	35:BN:97:ARG:CZ	2.59	0.51
35:BN:121:VAL:O	35:BN:121:VAL:HG12	2.10	0.51
37:BP:106:VAL:HG13	37:BP:107:ALA:N	2.24	0.51
37:BP:56:ARG:HD2	37:BP:57:HIS:N	2.26	0.51
38:BQ:38:VAL:CB	38:BQ:39:PRO:CD	2.84	0.51
38:BQ:63:ARG:HH21	38:BQ:76:VAL:CG1	2.23	0.51
40:BS:10:VAL:O	40:BS:11:GLU:C	2.48	0.51
40:BS:50:ILE:HD12	40:BS:66:VAL:HG23	1.91	0.51
41:BT:69:CYS:SG	41:BT:70:ARG:HG3	2.50	0.51
41:BT:89:GLU:O	41:BT:90:VAL:CG2	2.57	0.51
43:BV:40:ASN:O	43:BV:41:LYS:HB2	2.10	0.51
24:BA:1338:G:H4'	44:BW:16:LYS:HZ1	1.74	0.51
45:BX:54:LYS:HA	45:BX:54:LYS:CE	2.25	0.51
45:BX:84:ARG:NE	45:BX:84:ARG:CA	2.72	0.51
46:BY:121:HIS:C	46:BY:122:ARG:HD3	2.31	0.51
46:BY:27:VAL:HB	46:BY:87:ASP:OD1	2.11	0.51
26:BC:142:ALA:O	26:BC:143:GLY:C	2.49	0.51
26:BC:211:SER:HA	26:BC:223:ARG:NH2	2.23	0.51
1:AA:342:C:O2'	1:AA:343:U:C5'	2.57	0.51
1:AA:525:C:C5	1:AA:526:C:C5	2.98	0.51
24:BA:2464:C:H2'	24:BA:2465:C:H6	1.74	0.51
1:AA:1058:G:O5'	1:AA:1058:G:C8	2.59	0.51
1:AA:1106:G:OP1	5:AF:172:ARG:HD2	2.10	0.51
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.45	0.51
1:AA:1317:C:N4	1:AA:1318:A:C2	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1446:A:HO2'	1:AA:1447:G:P	2.32	0.51
1:AA:193:C:O2'	1:AA:194:C:H5'	2.10	0.51
1:AA:198:G:C2'	1:AA:199:G:H5'	2.41	0.51
1:AA:197:A:O2'	1:AA:198:G:O4'	2.26	0.51
1:AA:184:G:H4'	1:AA:224:C:H4'	1.91	0.51
1:AA:355:C:C2	1:AA:356:A:C8	2.99	0.51
1:AA:38:G:C2	1:AA:397:A:C6	2.99	0.51
1:AA:454:C:H3'	1:AA:455:C:C6	2.45	0.51
1:AA:44:G:H2'	1:AA:45:U:C5'	2.40	0.51
1:AA:465:A:N7	1:AA:467:G:C6	2.79	0.51
1:AA:485:G:O2'	1:AA:486:U:H6	1.93	0.51
1:AA:529:G:C8	1:AA:529:G:H3'	2.45	0.51
1:AA:52:G:C2'	1:AA:53:A:H5'	2.39	0.51
1:AA:595:G:N7	1:AA:641:U:C4	2.78	0.51
1:AA:667:G:H4'	17:AR:51:HIS:CE1	2.45	0.51
1:AA:715:A:H5'	1:AA:777:A:N6	2.26	0.51
1:AA:782:A:N6	1:AA:801:U:C6	2.79	0.51
1:AA:817:C:C1'	1:AA:818:G:H5''	2.41	0.51
1:AA:828:A:C2	1:AA:859:A:H1'	2.45	0.51
1:AA:868:C:O5'	1:AA:868:C:H6	1.94	0.51
1:AA:939:G:H5''	9:AJ:102:ARG:CZ	2.41	0.51
1:AA:962:C:H2'	1:AA:963:G:O4'	2.11	0.51
1:AA:983:A:C2'	1:AA:983:A:N3	2.73	0.51
2:AC:20:U:C3'	2:AC:20:U:O2	2.58	0.51
2:AC:74:C:H3'	2:AC:75:C:H5''	1.90	0.51
2:AC:6:G:C2	2:AC:7:G:C5	2.99	0.51
3:AD:71:G:H1'	24:BA:1851:U:HO2'	1.76	0.51
6:AG:14:ARG:HG3	6:AG:15:GLU:N	2.25	0.51
9:AJ:94:ARG:O	9:AJ:97:GLN:HB3	2.10	0.51
10:AK:112:LEU:HG	10:AK:131:GLY:HA3	1.92	0.51
1:AA:972:C:P	12:AM:57:LYS:HD2	2.50	0.51
13:AN:21:ILE:CD1	13:AN:82:VAL:CG1	2.89	0.51
13:AN:88:GLY:C	13:AN:90:GLY:N	2.63	0.51
14:AO:32:PHE:HB2	14:AO:84:LEU:CD1	2.33	0.51
15:AP:4:ILE:N	15:AP:4:ILE:HD12	2.24	0.51
18:AS:60:LEU:O	18:AS:61:SER:O	2.28	0.51
19:AT:24:GLU:HB3	19:AT:38:ARG:O	2.10	0.51
19:AT:7:THR:OG1	19:AT:57:VAL:C	2.49	0.51
20:AU:46:GLU:CG	20:AU:85:LEU:HD13	2.40	0.51
48:B1:33:GLN:HB3	48:B1:41:GLN:OE1	2.10	0.51
49:B2:6:VAL:CB	49:B2:35:ARG:CZ	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:50:VAL:CB	49:B2:53:LEU:HD12	2.40	0.51
50:B3:20:ASN:O	50:B3:30:GLU:HB2	2.11	0.51
50:B3:65:ASP:HA	50:B3:68:ARG:NH2	2.26	0.51
54:B7:13:ARG:HG3	54:B7:13:ARG:HH11	1.76	0.51
54:B7:22:VAL:O	54:B7:23:VAL:HG23	2.10	0.51
54:B7:30:ARG:NH2	54:B7:43:GLN:CA	2.72	0.51
54:B7:44:LYS:HA	54:B7:44:LYS:CE	2.41	0.51
55:B8:15:LYS:C	55:B8:25:VAL:HG13	2.30	0.51
24:BA:104:U:O2'	24:BA:105:C:H5'	2.10	0.51
24:BA:1094:U:N3	24:BA:1096:A:O5'	2.44	0.51
24:BA:70:G:H2'	24:BA:114:U:C5	2.44	0.51
24:BA:1268:A:C4	24:BA:2013:A:C6	2.98	0.51
24:BA:1426:G:H3'	24:BA:1427:A:H5''	1.92	0.51
24:BA:1459:G:O6	24:BA:1461:G:C6	2.64	0.51
24:BA:1476:C:N4	24:BA:1517:G:C8	2.76	0.51
24:BA:1523:U:N3	24:BA:1524:G:N7	2.59	0.51
24:BA:1608:A:C2	24:BA:1611:C:C6	2.98	0.51
24:BA:1651:G:C2	24:BA:1652:A:C5	2.97	0.51
24:BA:1668:A:N7	24:BA:1674:G:C4	2.79	0.51
24:BA:1691:C:C2	24:BA:1692:U:C6	2.97	0.51
24:BA:1791:A:O4'	27:BD:209:ALA:CA	2.55	0.51
24:BA:1862:G:C2'	24:BA:1863:G:C8	2.90	0.51
24:BA:1921:G:C2'	24:BA:1922:G:H5'	2.40	0.51
24:BA:1928:A:H3'	24:BA:1929:G:H5'	1.91	0.51
24:BA:1935:G:H2'	24:BA:1962:C:N4	2.24	0.51
24:BA:1785:A:OP1	24:BA:1982:C:C5'	2.59	0.51
24:BA:1990:C:C4	24:BA:1991:U:O4	2.63	0.51
24:BA:1993:U:O2'	24:BA:1994:C:H5'	2.10	0.51
24:BA:2003:G:C2'	24:BA:2004:G:O5'	2.59	0.51
24:BA:578:A:C2'	24:BA:2018:G:C5'	2.87	0.51
24:BA:2067:G:H5''	24:BA:2068:U:OP2	2.10	0.51
24:BA:2080:G:O2'	24:BA:2081:C:H5'	2.10	0.51
24:BA:2219:G:H2'	24:BA:2224:G:C5'	2.39	0.51
24:BA:2258:C:N4	24:BA:2426:A:O4'	2.43	0.51
24:BA:2292:C:H2'	24:BA:2293:C:C6	2.45	0.51
24:BA:2345:G:C5	24:BA:2371:G:N2	2.79	0.51
24:BA:2679:A:O2'	28:BE:189:PRO:HA	2.10	0.51
24:BA:2747:G:H21	24:BA:2748:A:N6	2.06	0.51
24:BA:2750:A:N1	55:B8:18:ARG:NH1	2.59	0.51
24:BA:2792:G:N2	24:BA:2793:G:C4	2.79	0.51
24:BA:297:C:N4	24:BA:298:G:N2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:319:C:N4	24:BA:320:A:C6	2.78	0.51
24:BA:573:G:H2'	24:BA:574:C:H3'	1.92	0.51
24:BA:622:G:C6	24:BA:623:G:N2	2.77	0.51
24:BA:656:G:H8	24:BA:656:G:OP2	1.93	0.51
24:BA:659:C:H4'	29:BF:102:PRO:HD3	1.93	0.51
24:BA:72:U:OP2	44:BW:3:THR:N	2.44	0.51
24:BA:733:G:N1	24:BA:761:A:C5	2.78	0.51
24:BA:762:U:H1'	24:BA:763:G:C6	2.46	0.51
24:BA:788:A:C4'	24:BA:789:A:O5'	2.56	0.51
24:BA:849:A:N3	49:B2:21:ALA:HB1	2.26	0.51
24:BA:909:A:C5'	24:BA:909:A:C8	2.92	0.51
24:BA:938:G:C2	24:BA:939:G:C5	2.98	0.51
24:BA:974:G:C5	24:BA:974(A):C:N4	2.78	0.51
25:BB:102:G:H2'	25:BB:103:U:C5	2.46	0.51
25:BB:65:C:C5	25:BB:108:C:C5	2.98	0.51
25:BB:75:G:C6	25:BB:76:G:N3	2.78	0.51
24:BA:2216:G:C2	27:BD:150:LYS:NZ	2.78	0.51
27:BD:204:ILE:O	27:BD:205:VAL:HB	2.11	0.51
24:BA:1901:A:H1'	27:BD:244:ARG:NH1	2.26	0.51
24:BA:1568:G:C5'	27:BD:61:LEU:CA	2.89	0.51
27:BD:72:LYS:NZ	27:BD:75:ILE:CD1	2.73	0.51
24:BA:2784:C:C1'	28:BE:41:LYS:NZ	2.72	0.51
28:BE:5:LEU:HD22	28:BE:196:VAL:CG2	2.40	0.51
28:BE:60:ASN:OD1	28:BE:61:ARG:N	2.43	0.51
28:BE:30:PRO:HD2	28:BE:91:VAL:HA	1.93	0.51
29:BF:36:VAL:HG13	29:BF:37:VAL:N	2.24	0.51
29:BF:47:GLY:O	29:BF:95:ARG:O	2.27	0.51
30:BG:131:TYR:HB2	30:BG:159:VAL:H	1.75	0.51
30:BG:147:ASP:O	30:BG:148:MET:HB3	2.09	0.51
30:BG:47:LYS:HB2	30:BG:72:ARG:C	2.31	0.51
31:BH:7:LEU:HB3	31:BH:65:HIS:NE2	2.24	0.51
34:BM:43:THR:O	34:BM:44:PRO:C	2.49	0.51
35:BN:47:ILE:HG12	35:BN:47:ILE:O	2.09	0.51
35:BN:78:ARG:N	35:BN:78:ARG:CZ	2.74	0.51
36:BO:130:PHE:C	36:BO:134:ALA:HB3	2.31	0.51
38:BQ:67:LEU:CD2	38:BQ:72:ASP:H	2.22	0.51
39:BR:67:ARG:NH2	39:BR:67:ARG:HG2	2.25	0.51
24:BA:2847:U:OP2	40:BS:54:ARG:NH2	2.43	0.51
40:BS:98:LYS:HG3	40:BS:98:LYS:O	2.10	0.51
24:BA:1010:A:H5''	41:BT:66:ASN:OD1	2.10	0.51
42:BU:3:ALA:C	42:BU:12:TYR:CE2	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:64:HIS:CG	42:BU:96:ILE:HG22	2.45	0.51
42:BU:67:GLY:HA2	42:BU:93:GLU:C	2.30	0.51
44:BW:15:GLU:O	44:BW:16:LYS:C	2.48	0.51
45:BX:18:GLY:C	45:BX:19:LYS:HD3	2.31	0.51
45:BX:33:LYS:CB	45:BX:35:TYR:HE2	2.21	0.51
46:BY:107:THR:O	46:BY:142:SER:HA	2.10	0.51
46:BY:99:TYR:CA	46:BY:126:VAL:HG13	2.41	0.51
47:BZ:44:ARG:HA	47:BZ:46:LYS:HZ3	1.74	0.51
32:BK:95:LYS:O	32:BK:98:ALA:CB	2.58	0.51
26:BC:176:GLY:C	26:BC:185:LEU:HD22	2.31	0.51
26:BC:19:ILE:HD12	26:BC:223:ARG:HH11	1.75	0.51
26:BC:47:LEU:HD21	26:BC:49:ILE:HD11	1.91	0.51
26:BC:18:LYS:HB3	26:BC:20:TYR:CE2	2.46	0.51
24:BA:1413:G:C6	24:BA:1414:G:N7	2.78	0.51
24:BA:1767:C:C4	24:BA:1768:U:C5	2.99	0.51
24:BA:2464:C:O2'	24:BA:2465:C:H5'	2.10	0.51
1:AA:1067:A:O2'	1:AA:1068:G:P	2.68	0.51
1:AA:1108:G:C6	1:AA:1109:C:N4	2.79	0.51
1:AA:1154:G:O2'	1:AA:1155:G:C5'	2.59	0.51
1:AA:1118:C:O4'	1:AA:1179:A:C1'	2.58	0.51
1:AA:1194:U:C5	1:AA:1195:C:C5	2.99	0.51
1:AA:953:G:C6	1:AA:1229:A:N6	2.78	0.51
1:AA:1401:G:H2'	1:AA:1402:C:H5'	1.87	0.51
1:AA:1429:C:C1'	24:BA:1703:G:O2'	2.59	0.51
1:AA:1505:G:C4'	1:AA:1506:U:O5'	2.55	0.51
1:AA:186(B):C:H2'	1:AA:186(C):G:O5'	2.10	0.51
1:AA:186(A):C:H2'	1:AA:186(B):C:O4'	2.10	0.51
1:AA:245:C:C2	1:AA:284:G:N1	2.78	0.51
1:AA:595:G:O6	1:AA:641:U:H3'	2.10	0.51
1:AA:722:A:H2'	1:AA:724:G:H8	1.75	0.51
1:AA:738:C:N3	1:AA:739:C:C5	2.79	0.51
1:AA:22:G:O2'	1:AA:913:A:N1	2.44	0.51
4:AE:53:ARG:O	4:AE:56:ARG:NH1	2.44	0.51
5:AF:156:ARG:NH1	5:AF:161:GLU:HA	2.25	0.51
5:AF:24:ALA:HB2	5:AF:32:LEU:HD11	1.93	0.51
6:AG:102:ASP:HA	6:AG:105:VAL:CG2	2.40	0.51
6:AG:195:ALA:O	6:AG:196:LEU:C	2.48	0.51
9:AJ:104:LEU:CD2	9:AJ:134:ALA:CB	2.83	0.51
7:AH:78:HIS:CB	10:AK:107:LEU:HD11	2.39	0.51
11:AL:9:ARG:HD2	11:AL:14:VAL:CB	2.41	0.51
11:AL:15:ALA:HB1	11:AL:77:ILE:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:25:GLU:C	12:AM:28:ARG:HB2	2.30	0.51
12:AM:55:LYS:O	12:AM:56:HIS:CD2	2.64	0.51
13:AN:54:ARG:O	13:AN:55:LYS:C	2.49	0.51
15:AP:27:LYS:CD	15:AP:31:LYS:NZ	2.73	0.51
18:AS:14:ASN:CB	18:AS:42:ARG:HH22	2.23	0.51
18:AS:57:ARG:O	18:AS:58:TYR:C	2.47	0.51
19:AT:45:HIS:ND1	19:AT:46:ASP:N	2.58	0.51
21:AV:31:ILE:O	21:AV:33:THR:N	2.44	0.51
22:AW:43:LEU:HD22	22:AW:48:LYS:HB2	1.93	0.51
22:AW:54:LYS:O	22:AW:55:ILE:C	2.48	0.51
1:AA:261:U:O4	22:AW:79:ARG:NH2	2.43	0.51
50:B3:56:VAL:CG1	50:B3:61:ARG:HG2	2.40	0.51
24:BA:2017:U:H4'	51:B4:8:LYS:HZ1	1.74	0.51
51:B4:8:LYS:C	51:B4:9:LYS:HG3	2.31	0.51
55:B8:25:VAL:HB	55:B8:34:GLN:CB	2.21	0.51
55:B8:2:LYS:CG	55:B8:35:ARG:HB2	2.23	0.51
24:BA:1131:G:C4	34:BM:82:LEU:HD11	2.46	0.51
24:BA:1174:A:N3	24:BA:1175:U:H6	2.08	0.51
24:BA:331:A:C4	24:BA:1209:G:N1	2.78	0.51
24:BA:1300:U:O2'	24:BA:1301:A:OP2	2.28	0.51
24:BA:1288:U:C2	24:BA:1327:C:C2	2.98	0.51
24:BA:1493:C:C2'	24:BA:1493:C:O2	2.58	0.51
24:BA:1532:C:C2'	24:BA:1533:C:O4'	2.58	0.51
24:BA:749:C:O2'	24:BA:1617:C:C2'	2.59	0.51
24:BA:1754:C:H2'	24:BA:1754:C:O2	2.11	0.51
24:BA:1762:A:H8	24:BA:1762:A:H3'	1.73	0.51
24:BA:1858:G:O6	24:BA:1883:G:C6	2.63	0.51
24:BA:195:A:H4'	24:BA:251:A:C4'	2.40	0.51
24:BA:1980:G:C5	24:BA:1982:C:N4	2.79	0.51
24:BA:200:U:C5	24:BA:201:C:C2	2.97	0.51
24:BA:226:G:O2'	24:BA:228:A:H2	1.93	0.51
24:BA:2331:G:H4'	47:BZ:42:GLY:HA3	1.93	0.51
24:BA:2365:G:H4'	47:BZ:60:PHE:CE2	2.45	0.51
24:BA:826:U:H5'	24:BA:2428:G:C3'	2.40	0.51
24:BA:2491:U:C6	24:BA:2492:U:P	3.03	0.51
24:BA:2498:C:H2'	24:BA:2499:C:C5'	2.35	0.51
24:BA:2542:A:C4'	24:BA:2543:G:OP1	2.59	0.51
24:BA:2583:G:C2'	24:BA:2584:U:O2	2.46	0.51
24:BA:2644:G:O5'	24:BA:2644:G:C8	2.63	0.51
24:BA:2665:A:C2'	24:BA:2666:C:O4'	2.59	0.51
24:BA:1638:C:H1'	24:BA:2698:U:O2'	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2700:C:C3'	24:BA:2701:C:H5''	2.36	0.51
24:BA:2720:U:O2	24:BA:2720:U:C2'	2.58	0.51
24:BA:2722:G:H2'	24:BA:2723:C:C6	2.45	0.51
24:BA:2746:U:C4	24:BA:2747:G:N7	2.78	0.51
24:BA:2754:U:C6	24:BA:2754:U:H3'	2.46	0.51
24:BA:2523:G:O4'	24:BA:2765:A:N7	2.44	0.51
24:BA:2785:C:H2'	24:BA:2786:U:C6	2.44	0.51
24:BA:2824:C:N4	24:BA:2825:C:C2	2.78	0.51
24:BA:319:C:H2'	24:BA:320:A:O4'	2.10	0.51
24:BA:366:C:C5'	24:BA:403:U:H3	2.21	0.51
24:BA:708:C:H2'	24:BA:709:U:C6	2.45	0.51
24:BA:705:A:N6	24:BA:727:A:H1'	2.22	0.51
24:BA:729:G:H2'	24:BA:730:C:H1'	1.88	0.51
24:BA:813:U:C2	24:BA:814:C:C5	2.99	0.51
24:BA:833:U:H2'	24:BA:834:C:H6	1.74	0.51
24:BA:879:G:N7	24:BA:899:A:N1	2.58	0.51
24:BA:917:A:H4'	24:BA:918:A:OP1	2.10	0.51
25:BB:73:A:C8	25:BB:104:A:C6	2.98	0.51
25:BB:105:G:OP1	46:BY:31:ARG:HA	2.10	0.51
25:BB:53:A:H2'	25:BB:53:A:N3	2.26	0.51
27:BD:155:LEU:HG	27:BD:157:ARG:NE	2.25	0.51
27:BD:208:LYS:HZ2	27:BD:211:ARG:CD	2.21	0.51
27:BD:63:ARG:HG2	27:BD:64:ILE:H	1.74	0.51
27:BD:88:ARG:CD	27:BD:89:SER:H	2.20	0.51
29:BF:9:ILE:HG12	29:BF:124:LEU:HD13	1.91	0.51
29:BF:197:ASP:OD2	29:BF:201:VAL:HG23	2.10	0.51
29:BF:31:HIS:CE1	36:BO:14:LYS:NZ	2.79	0.51
29:BF:51:THR:O	29:BF:52:LYS:CB	2.58	0.51
31:BH:29:PRO:CD	31:BH:30:LYS:H	2.23	0.51
31:BH:91:GLY:C	31:BH:93:GLY:N	2.62	0.51
33:BL:10:LEU:HD22	33:BL:57:ILE:CG1	2.22	0.51
33:BL:112:MET:HE1	33:BL:119:ASP:N	2.26	0.51
33:BL:7:VAL:HG21	33:BL:67:PHE:CE2	2.45	0.51
33:BL:78:ILE:HD11	33:BL:99:ILE:CD1	2.40	0.51
34:BM:36:GLY:CA	34:BM:49:GLY:N	2.73	0.51
24:BA:2641:G:H5'	34:BM:75:TYR:CD2	2.46	0.51
35:BN:15:GLY:N	35:BN:52:VAL:HG11	2.25	0.51
35:BN:57:VAL:C	35:BN:59:LYS:NZ	2.64	0.51
38:BQ:75:LEU:O	38:BQ:77:ARG:N	2.44	0.51
39:BR:100:ALA:O	39:BR:103:GLU:OE2	2.29	0.51
40:BS:22:PHE:C	40:BS:24:PRO:HD3	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:64:ARG:HH12	40:BS:78:LEU:H	1.57	0.51
41:BT:114:LYS:HG2	41:BT:115:ALA:H	1.76	0.51
41:BT:98:LEU:HB3	41:BT:105:VAL:HG11	1.92	0.51
42:BU:38:LEU:N	42:BU:38:LEU:HD23	2.15	0.51
45:BX:49:VAL:HG23	45:BX:51:VAL:H	1.75	0.51
46:BY:19:ARG:HE	46:BY:24:LEU:HD21	1.75	0.51
47:BZ:72:ARG:C	47:BZ:73:GLY:O	2.47	0.51
3:AD:18:G:H2'	3:AD:19:G:O4'	2.10	0.51
26:BC:175:VAL:C	26:BC:188:ASN:HB3	2.30	0.51
26:BC:62:VAL:CB	26:BC:195:ALA:HB2	2.40	0.51
24:BA:2178:C:H5''	26:BC:46:LYS:NZ	2.24	0.51
1:AA:1061:G:C5	1:AA:1062:U:C5	2.98	0.51
1:AA:1094:G:H3'	1:AA:1108:G:N2	2.25	0.51
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.11	0.51
1:AA:1055:A:N6	1:AA:1206:G:C4	2.78	0.51
1:AA:1319:A:OP1	21:AV:70:LYS:NZ	2.41	0.51
1:AA:1403:C:H1'	1:AA:1500:A:C2	2.43	0.51
1:AA:1511:G:C2'	1:AA:1512:U:H5'	2.41	0.51
1:AA:1516:G:N2	1:AA:1519:A:OP2	2.43	0.51
1:AA:250:A:O4'	1:AA:252:U:C5	2.64	0.51
1:AA:399:G:C4	1:AA:400:C:C5	2.99	0.51
1:AA:491:G:C2	1:AA:492:G:C8	2.99	0.51
1:AA:58:C:O2	1:AA:388:G:C8	2.64	0.51
1:AA:597:G:C5	1:AA:644:G:N1	2.79	0.51
1:AA:723:U:C6	1:AA:723:U:O5'	2.64	0.51
1:AA:778:G:C4	1:AA:779:C:C5	2.99	0.51
1:AA:789:U:C6	1:AA:789:U:H3'	2.45	0.51
1:AA:978:A:H8	1:AA:980:C:N4	2.08	0.51
2:AC:75:C:C5	24:BA:2451:A:O2'	2.53	0.51
4:AE:141:GLU:CD	4:AE:142:LEU:N	2.64	0.51
4:AE:75:LYS:CA	4:AE:75:LYS:HE3	2.41	0.51
5:AF:142:MET:HA	5:AF:146:ALA:HB3	1.91	0.51
6:AG:3:ARG:HE	6:AG:71:SER:CB	2.20	0.51
8:AI:29:ALA:O	8:AI:30:LEU:C	2.46	0.51
8:AI:27:GLN:CA	8:AI:30:LEU:HD12	2.41	0.51
10:AK:102:ARG:CZ	10:AK:102:ARG:HB3	2.41	0.51
11:AL:37:PHE:CZ	11:AL:74:ILE:HG12	2.46	0.51
11:AL:7:THR:H	11:AL:83:ARG:HD2	1.76	0.51
12:AM:55:LYS:O	12:AM:56:HIS:CG	2.64	0.51
12:AM:56:HIS:C	12:AM:58:ASP:N	2.64	0.51
15:AP:13:LYS:HD3	15:AP:21:TYR:OH	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:95:GLY:O	15:AP:110:ARG:HD2	2.10	0.51
16:AQ:34:TYR:OH	16:AQ:44:LEU:HD13	2.10	0.51
12:AM:46:ARG:HD2	16:AQ:61:TRP:HZ3	1.75	0.51
19:AT:19:VAL:O	19:AT:43:LEU:HD22	2.10	0.51
19:AT:40:LYS:CB	19:AT:40:LYS:NZ	2.74	0.51
20:AU:47:THR:O	20:AU:49:LYS:N	2.44	0.51
1:AA:186:C:C2'	22:AW:85:MET:SD	2.98	0.51
48:B1:50:ARG:HB3	48:B1:54:ARG:NH2	2.24	0.51
54:B7:54:GLU:CD	54:B7:54:GLU:N	2.64	0.51
24:BA:1055:G:H2'	24:BA:1084:A:C2	2.45	0.51
24:BA:443:A:H1'	24:BA:1201:C:O4'	2.10	0.51
24:BA:1241:A:C5'	24:BA:1241:A:C2	2.62	0.51
24:BA:1274:A:C2	24:BA:1297:C:O2	2.63	0.51
24:BA:149:A:H62	24:BA:151:C:N4	2.09	0.51
24:BA:1531:C:N3	24:BA:1532:C:N4	2.43	0.51
24:BA:1309:G:H21	24:BA:1611:C:H5'	1.76	0.51
24:BA:1672:C:C3'	24:BA:1673:U:C5'	2.84	0.51
24:BA:1682:G:H3'	24:BA:1683:C:C6	2.45	0.51
24:BA:1725:G:N3	24:BA:1725:G:H2'	2.25	0.51
24:BA:1728:G:H1	24:BA:1731:G:H22	1.59	0.51
24:BA:1838:C:C2'	24:BA:1838:C:O2	2.56	0.51
24:BA:1894:C:O2	24:BA:1895:C:C6	2.64	0.51
24:BA:1912:A:C8	24:BA:1918:A:N6	2.72	0.51
24:BA:1965:C:C6	24:BA:1966:A:N7	2.79	0.51
24:BA:2070:G:C6	24:BA:2442:C:C4	2.99	0.51
24:BA:2093:G:H4'	32:BK:25:TYR:CA	2.33	0.51
24:BA:2199:A:C4	24:BA:2225:A:C2	2.99	0.51
24:BA:2231:C:C2	24:BA:2232:U:C5	2.98	0.51
24:BA:2395:C:C4	24:BA:2396:G:N7	2.79	0.51
24:BA:2405:G:C2'	24:BA:2411:A:N6	2.72	0.51
24:BA:2436:G:C2'	24:BA:2437:U:O5'	2.59	0.51
24:BA:2458:G:H2'	24:BA:2460:U:N3	2.25	0.51
24:BA:2483:C:H2'	24:BA:2484:G:O5'	2.10	0.51
24:BA:2511:U:C4	24:BA:2512:C:C4	2.97	0.51
24:BA:2581:G:C4'	24:BA:2582:G:N7	2.67	0.51
24:BA:2642:G:N1	24:BA:2643:G:C5	2.79	0.51
24:BA:2685:G:C2'	24:BA:2685:G:N3	2.67	0.51
24:BA:269:U:N3	24:BA:270:A:N6	2.51	0.51
24:BA:2739:U:O2	24:BA:2740:A:H8	1.94	0.51
24:BA:2767:C:O2	24:BA:2768:C:C5	2.63	0.51
24:BA:2805:G:H2'	24:BA:2807:G:C5'	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2838:G:C4	24:BA:2839:G:C8	2.99	0.51
24:BA:2849:U:C6	24:BA:2849:U:C3'	2.94	0.51
24:BA:443:A:N7	29:BF:45:ARG:NH2	2.58	0.51
24:BA:458:G:N3	24:BA:469:G:O6	2.43	0.51
24:BA:514:A:O2'	24:BA:515:A:H5'	2.10	0.51
24:BA:669:G:N2	24:BA:670:A:C4	2.79	0.51
24:BA:685:A:C2	24:BA:689:A:N1	2.79	0.51
24:BA:721:C:N4	24:BA:722:A:H62	2.08	0.51
24:BA:723:G:H2'	24:BA:724:U:C6	2.45	0.51
24:BA:740:U:O2'	24:BA:741:G:O5'	2.26	0.51
24:BA:781:A:N3	24:BA:781:A:H2'	2.26	0.51
25:BB:85:G:C4	25:BB:92:G:N2	2.79	0.51
27:BD:148:GLU:C	27:BD:149:PRO:O	2.49	0.51
27:BD:181:GLU:OE2	27:BD:272:ALA:CA	2.42	0.51
27:BD:206:LEU:HB2	27:BD:212:SER:OG	2.10	0.51
27:BD:51:VAL:HB	27:BD:52:ARG:NE	2.26	0.51
27:BD:85:ASP:C	27:BD:87:ASN:N	2.64	0.51
28:BE:148:GLY:O	28:BE:149:ARG:HG3	2.10	0.51
28:BE:4:ILE:CD1	28:BE:76:ARG:HH11	2.23	0.51
28:BE:8:LYS:HB3	28:BE:24:THR:CG2	2.40	0.51
29:BF:24:LEU:H	29:BF:25:PRO:HD2	1.75	0.51
29:BF:29:ASN:HD22	29:BF:30:PRO:CD	2.24	0.51
30:BG:76:SER:O	30:BG:83:ARG:CG	2.53	0.51
31:BH:24:VAL:HG21	31:BH:72:ILE:CG2	2.41	0.51
33:BL:20:ALA:HB3	33:BL:21:PRO:HD3	1.92	0.51
33:BL:94:GLU:HB3	33:BL:96:VAL:HG13	1.93	0.51
34:BM:45:ASN:O	34:BM:46:VAL:CG2	2.58	0.51
34:BM:33:LEU:HD11	34:BM:52:VAL:HB	1.93	0.51
36:BO:23:PRO:HG2	36:BO:29:LYS:N	2.26	0.51
37:BP:132:VAL:HG12	37:BP:133:ARG:HH21	1.72	0.51
37:BP:45:GLN:O	37:BP:47:ILE:N	2.43	0.51
37:BP:54:MET:SD	37:BP:118:LEU:HA	2.50	0.51
37:BP:56:ARG:CD	37:BP:57:HIS:N	2.74	0.51
37:BP:90:VAL:C	37:BP:93:TYR:OH	2.49	0.51
38:BQ:33:ARG:CB	38:BQ:115:GLU:HB3	2.40	0.51
39:BR:9:ARG:CD	39:BR:12:PHE:HE2	2.24	0.51
40:BS:103:ARG:HH21	40:BS:103:ARG:CB	2.23	0.51
40:BS:82:LEU:HD23	40:BS:83:ILE:N	2.25	0.51
40:BS:93:ARG:CG	40:BS:95:ARG:HB2	2.41	0.51
41:BT:17:ILE:HD13	41:BT:20:LEU:HD21	1.92	0.51
42:BU:42:GLY:O	42:BU:49:THR:O	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:5:VAL:N	42:BU:12:TYR:CD2	2.77	0.51
43:BV:2:GLU:OE2	43:BV:2:GLU:HA	2.10	0.51
43:BV:47:VAL:HG23	43:BV:48:ALA:N	2.25	0.51
44:BW:72:LYS:O	44:BW:73:ARG:CB	2.58	0.51
45:BX:74:PRO:CB	45:BX:101:LYS:C	2.70	0.51
45:BX:42:VAL:HG23	45:BX:61:ILE:HG12	1.93	0.51
45:BX:81:LYS:CD	45:BX:96:ILE:HG23	2.41	0.51
46:BY:6:LYS:NZ	46:BY:10:ARG:HH22	2.08	0.51
46:BY:116:VAL:HA	46:BY:177:PRO:CD	2.41	0.51
46:BY:28:MET:HB2	46:BY:37:VAL:HG23	1.93	0.51
46:BY:41:LEU:O	46:BY:42:VAL:C	2.49	0.51
46:BY:98:MET:HG3	46:BY:100:VAL:CG2	2.32	0.51
47:BZ:21:LEU:H	47:BZ:24:LYS:HZ1	1.58	0.51
47:BZ:79:VAL:C	47:BZ:80:HIS:CD2	2.83	0.51
32:BK:113:ARG:HA	32:BK:131:LYS:HZ2	1.75	0.51
26:BC:13:LYS:HB3	26:BC:32:LEU:HD23	1.93	0.51
26:BC:93:TYR:CD2	26:BC:109:ASP:O	2.64	0.51
24:BA:363(C):G:O2'	24:BA:363(D):G:H5'	2.10	0.51
1:AA:1084:G:N9	1:AA:1085:U:H5	2.09	0.51
1:AA:1321:C:H6	1:AA:1321:C:H3'	1.74	0.51
1:AA:1372:U:OP1	11:AL:71:SER:HB3	2.11	0.51
1:AA:1430:C:C2	1:AA:1431:C:C5	2.98	0.51
1:AA:263:A:P	1:AA:263:A:H8	2.33	0.51
1:AA:319:G:H4'	1:AA:1468:A:H4'	1.92	0.51
1:AA:322:C:H2'	1:AA:323:U:O4'	2.11	0.51
1:AA:404:U:OP1	6:AG:118:ARG:NH1	2.44	0.51
1:AA:52:G:C4	1:AA:53:A:C8	2.99	0.51
1:AA:566:G:C4'	1:AA:567:G:OP1	2.57	0.51
1:AA:792:A:N3	1:AA:794:A:N6	2.58	0.51
1:AA:815:A:C8	1:AA:819:A:H2	2.29	0.51
1:AA:848:C:H2'	1:AA:849:C:C6	2.46	0.51
1:AA:956:U:H2'	1:AA:957:U:C6	2.45	0.51
3:AD:1:G:C6	3:AD:73:A:C6	2.99	0.51
4:AE:147:LYS:HG3	4:AE:148:TYR:HD1	1.76	0.51
4:AE:187:LEU:CD2	4:AE:201:ILE:O	2.59	0.51
4:AE:196:LEU:HD12	4:AE:196:LEU:C	2.31	0.51
4:AE:47:THR:CG2	4:AE:51:LEU:HD21	2.41	0.51
6:AG:130:GLY:O	6:AG:131:ARG:C	2.49	0.51
6:AG:173:TRP:CD1	6:AG:189:PRO:HB3	2.46	0.51
6:AG:69:GLY:O	6:AG:70:ILE:HG12	2.11	0.51
6:AG:78:LEU:HD13	6:AG:93:PHE:HE2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:12:LEU:CD2	7:AH:14:ARG:HB3	2.36	0.51
7:AH:44:GLY:O	7:AH:58:ALA:HB1	2.10	0.51
10:AK:138:TRP:OXT	10:AK:138:TRP:CE3	2.64	0.51
4:AE:181:PHE:HE1	10:AK:72:PRO:HD2	1.76	0.51
10:AK:89:PRO:HA	10:AK:92:ARG:NH2	2.23	0.51
12:AM:11:PHE:CE1	16:AQ:55:GLY:HA3	2.46	0.51
15:AP:11:ARG:HH11	15:AP:11:ARG:HA	1.75	0.51
15:AP:25:ILE:HG12	15:AP:66:LEU:HD13	1.91	0.51
1:AA:1308:U:O5'	15:AP:99:ARG:NH1	2.43	0.51
17:AR:57:LEU:N	17:AR:57:LEU:HD13	2.22	0.51
18:AS:6:LEU:HD22	18:AS:6:LEU:C	2.31	0.51
21:AV:13:ASP:OD1	21:AV:16:LEU:HB2	2.11	0.51
22:AW:34:LYS:O	22:AW:37:SER:N	2.43	0.51
1:AA:1286:A:C5'	23:AX:25:LYS:HG2	2.41	0.51
48:B1:18:LYS:O	48:B1:22:GLU:OE2	2.29	0.51
53:B6:48:LYS:CG	53:B6:49:ARG:H	2.24	0.51
54:B7:29:LYS:O	54:B7:34:TRP:HZ2	1.93	0.51
55:B8:17:ILE:HD13	55:B8:26:ILE:HD12	1.92	0.51
24:BA:109:G:C6	24:BA:110:G:C8	2.97	0.51
24:BA:973:A:O4'	24:BA:1188:U:C4	2.64	0.51
24:BA:1343:G:H2'	24:BA:1384:A:C2	2.46	0.51
24:BA:1345:C:O2'	24:BA:1346:G:H5'	2.10	0.51
24:BA:1541:U:O2	24:BA:1542:G:O6	2.29	0.51
24:BA:1559:G:O6	24:BA:1560:G:C1'	2.59	0.51
24:BA:1617:C:C5'	24:BA:1618:A:OP2	2.51	0.51
24:BA:1789:A:O3'	27:BD:222:ARG:CZ	2.58	0.51
24:BA:1827:C:O2	24:BA:1828:G:C1'	2.58	0.51
24:BA:1838:C:O2	24:BA:1898:U:N3	2.44	0.51
24:BA:1940:U:H4'	24:BA:1941:C:H6	1.75	0.51
24:BA:1975:G:C2'	24:BA:1976:U:H5'	2.40	0.51
24:BA:2092:U:P	32:BK:29:TYR:OH	2.69	0.51
24:BA:208:C:C2	24:BA:209:C:C5	2.99	0.51
24:BA:954:G:H1'	24:BA:2274:A:C2	2.45	0.51
24:BA:2344:U:O2	24:BA:2344:U:C2'	2.59	0.51
24:BA:2354:G:O2'	24:BA:2355:C:H5'	2.11	0.51
24:BA:2403:C:N4	24:BA:2415:G:C6	2.79	0.51
24:BA:2426:A:C3'	24:BA:2427:C:C5'	2.84	0.51
24:BA:2466:C:O2'	24:BA:2467:C:H5'	2.10	0.51
24:BA:2470:G:O6	24:BA:2481:G:N2	2.44	0.51
24:BA:2584:U:H1'	24:BA:2585:U:C4	2.45	0.51
24:BA:2657:A:H3'	24:BA:2657:A:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2776:A:N7	24:BA:2781:A:C5	2.78	0.51
24:BA:2821:A:H3'	24:BA:2821:A:OP2	2.10	0.51
24:BA:2844:G:H2'	24:BA:2844:G:N3	2.25	0.51
24:BA:2854:G:C6	24:BA:2855:C:C4	2.98	0.51
24:BA:2880:C:H2'	24:BA:2881:C:H6	1.75	0.51
24:BA:2886:G:O2'	51:B4:31:VAL:CB	2.49	0.51
24:BA:2629:A:N6	24:BA:2895:U:C2	2.79	0.51
24:BA:371:A:N6	24:BA:424:G:H4'	2.24	0.51
24:BA:427:U:O2'	24:BA:428:A:C4'	2.59	0.51
24:BA:479:A:C4	24:BA:480:A:N7	2.78	0.51
24:BA:488:G:H1'	24:BA:492:A:N6	2.25	0.51
24:BA:514:A:H2	24:BA:515:A:H1'	1.74	0.51
24:BA:574:C:H1'	24:BA:2055:C:C5	2.45	0.51
24:BA:61:G:O2'	24:BA:62:C:H5'	2.11	0.51
24:BA:630:G:O2'	24:BA:631:A:C8	2.63	0.51
24:BA:689:A:H2'	24:BA:690:G:H5''	1.93	0.51
24:BA:728:G:C6	24:BA:762:U:H2'	2.45	0.51
24:BA:823:G:O6	24:BA:824:A:N6	2.44	0.51
24:BA:910:A:O2'	24:BA:911:A:H5'	2.11	0.51
24:BA:919:G:N2	24:BA:920:G:C4	2.79	0.51
24:BA:930:U:O2'	24:BA:932:G:C8	2.58	0.51
25:BB:103:U:C3'	25:BB:104:A:H5'	2.41	0.51
27:BD:106:ILE:HG13	27:BD:192:THR:HG21	1.92	0.51
24:BA:2209:C:H1'	27:BD:150:LYS:HE2	1.93	0.51
27:BD:91:ARG:HD3	27:BD:91:ARG:H	1.76	0.51
28:BE:170:LEU:CD2	28:BE:170:LEU:N	2.74	0.51
28:BE:36:ARG:HD2	28:BE:79:ARG:NH1	2.26	0.51
29:BF:122:LYS:CE	29:BF:192:LEU:HB3	2.41	0.51
29:BF:134:GLY:O	29:BF:165:ARG:NH1	2.43	0.51
24:BA:320:A:C2'	29:BF:136:THR:HG21	2.29	0.51
29:BF:174:VAL:O	29:BF:174:VAL:CG2	2.58	0.51
29:BF:194:MET:SD	29:BF:197:ASP:HA	2.49	0.51
29:BF:51:THR:O	29:BF:52:LYS:HB2	2.10	0.51
30:BG:138:GLN:HB2	30:BG:155:MET:CE	2.40	0.51
30:BG:86:MET:N	30:BG:87:PRO:CD	2.64	0.51
30:BG:39:ILE:CD1	30:BG:92:VAL:HG12	2.39	0.51
31:BH:11:VAL:HB	31:BH:50:VAL:HG22	1.93	0.51
31:BH:175:LYS:HG2	31:BH:176:ALA:N	2.26	0.51
32:BK:38:LEU:C	32:BK:38:LEU:HD13	2.31	0.51
32:BK:45:LYS:O	32:BK:48:GLU:N	2.44	0.51
33:BL:131:ALA:HB1	33:BL:136:VAL:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:134:ARG:N	34:BM:135:PRO:CD	2.74	0.51
34:BM:136:GLU:C	34:BM:137:LYS:HG2	2.31	0.51
34:BM:4:TYR:HE1	41:BT:101:ARG:NH2	2.08	0.51
35:BN:19:ILE:CD1	35:BN:20:MET:N	2.73	0.51
35:BN:16:ALA:CB	35:BN:45:GLU:C	2.79	0.51
36:BO:73:GLY:HA2	36:BO:111:ARG:CZ	2.40	0.51
36:BO:46:LYS:CB	36:BO:49:ARG:HB2	2.40	0.51
36:BO:49:ARG:HG3	54:B7:52:LYS:CD	2.40	0.51
24:BA:2393:A:C4'	36:BO:56:SER:H	2.24	0.51
37:BP:122:GLY:HA2	37:BP:125:LEU:CD1	2.39	0.51
37:BP:42:ILE:CD1	37:BP:43:THR:O	2.59	0.51
37:BP:96:VAL:HG12	37:BP:98:LYS:CE	2.39	0.51
39:BR:13:ARG:NH2	39:BR:90:GLY:C	2.64	0.51
40:BS:50:ILE:CD1	40:BS:76:PHE:HB3	2.40	0.51
41:BT:12:ARG:C	41:BT:14:HIS:N	2.61	0.51
24:BA:1161:C:O2'	42:BU:22:VAL:HG12	2.09	0.51
42:BU:58:VAL:HG11	42:BU:101:GLY:O	2.10	0.51
42:BU:78:LYS:NZ	42:BU:84:LYS:HG2	2.25	0.51
44:BW:39:ILE:CG2	44:BW:54:VAL:HG21	2.40	0.51
46:BY:102:LEU:CD1	46:BY:137:ILE:HB	2.41	0.51
47:BZ:70:GLN:O	47:BZ:72:ARG:N	2.43	0.51
24:BA:2132:U:H2'	24:BA:2134:A:N7	2.26	0.51
24:BA:2134:A:C2	24:BA:2135:A:N1	2.79	0.51
26:BC:134:ARG:NH1	26:BC:136:LEU:HG	2.25	0.51
26:BC:181:PRO:HB2	26:BC:184:LYS:CD	2.41	0.51
24:BA:1583:A:H5'	24:BA:1585:C:P	2.49	0.51
24:BA:273(F):C:H1'	24:BA:363(A):A:N1	2.26	0.51
1:AA:345:C:H5''	1:AA:346:G:OP1	2.10	0.51
1:AA:1007:C:O2'	1:AA:1008:C:H5'	2.10	0.51
24:BA:884:C:O5'	24:BA:884:C:H6	1.94	0.51
24:BA:1484:G:C6	24:BA:1485:G:C5	2.99	0.51
1:AA:1113:C:H6	1:AA:1113:C:O5'	1.93	0.51
1:AA:1240:U:C2	9:AJ:32:ARG:NE	2.78	0.51
1:AA:1259:C:H1'	1:AA:1283:G:N3	2.26	0.51
1:AA:1263:C:O5'	1:AA:1263:C:H6	1.93	0.51
1:AA:1348:U:O2'	1:AA:1349:A:H5'	2.11	0.51
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.76	0.51
1:AA:144:G:C4	1:AA:179:A:C2	2.99	0.51
1:AA:22:G:C2'	1:AA:23:C:H6	2.24	0.51
1:AA:277:C:H5''	19:AT:68:ARG:CZ	2.40	0.51
1:AA:352:C:O2	1:AA:357:G:O6	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:538:G:O3'	14:AO:114:LYS:HD3	2.10	0.51
1:AA:58:C:O2	1:AA:388:G:N7	2.43	0.51
1:AA:946:A:C4	1:AA:947:G:N7	2.79	0.51
2:AC:41:C:C2	2:AC:42:G:C8	2.99	0.51
4:AE:114:ARG:C	4:AE:114:ARG:HD3	2.30	0.51
4:AE:115:LEU:HD22	4:AE:145:LEU:HD12	1.93	0.51
4:AE:139:LYS:O	4:AE:143:GLU:CB	2.59	0.51
4:AE:43:ASP:OD1	4:AE:44:LEU:N	2.44	0.51
4:AE:58:ILE:HG22	4:AE:61:LEU:HD22	1.93	0.51
5:AF:121:ALA:CB	5:AF:187:ALA:HB1	2.40	0.51
5:AF:28:GLN:HE22	5:AF:29:TYR:HB2	1.74	0.51
6:AG:200:GLU:O	6:AG:204:ILE:HD12	2.10	0.51
1:AA:541:G:H4'	6:AG:42:GLN:HB2	1.92	0.51
6:AG:80:GLU:HA	6:AG:83:SER:OG	2.10	0.51
7:AH:122:GLU:N	7:AH:122:GLU:OE1	2.38	0.51
7:AH:11:ILE:CB	7:AH:31:LEU:HD22	2.41	0.51
9:AJ:106:GLN:O	9:AJ:109:ASN:N	2.43	0.51
9:AJ:42:ILE:HD13	9:AJ:116:ALA:HB3	1.92	0.51
9:AJ:56:GLN:NE2	9:AJ:56:GLN:H	2.09	0.51
10:AK:112:LEU:CB	10:AK:133:LEU:HD23	2.41	0.51
1:AA:1367:C:P	11:AL:115:GLY:HA2	2.50	0.51
11:AL:17:VAL:HG13	11:AL:63:ILE:HG12	1.92	0.51
12:AM:79:ARG:HH12	12:AM:82:ILE:CG1	2.24	0.51
14:AO:39:VAL:HB	14:AO:57:LYS:CD	2.29	0.51
15:AP:37:THR:CB	15:AP:59:TYR:CD2	2.84	0.51
15:AP:78:ILE:O	15:AP:81:LEU:HD22	2.10	0.51
16:AQ:24:CYS:O	16:AQ:26:ARG:N	2.44	0.51
20:AU:63:GLN:HA	20:AU:66:LEU:CD1	2.41	0.51
1:AA:1310:G:H3'	21:AV:2:PRO:HD2	1.93	0.51
22:AW:13:LEU:O	22:AW:16:HIS:N	2.44	0.51
24:BA:2286:A:N6	52:B5:29:ASN:C	2.64	0.51
24:BA:2466:C:C5'	55:B8:5:ALA:CB	2.89	0.51
24:BA:1007:C:OP2	24:BA:1008:C:H3'	2.11	0.51
24:BA:1086:A:C3'	24:BA:1087:G:H5'	2.36	0.51
24:BA:1124:C:N4	24:BA:1125:G:C6	2.79	0.51
24:BA:1143:A:C2'	24:BA:1144:G:H8	2.24	0.51
24:BA:1168:G:C6	24:BA:1169:G:C5	2.99	0.51
24:BA:809:G:C1'	24:BA:1254:A:N3	2.64	0.51
24:BA:1312:U:C5	44:BW:62:LYS:CD	2.85	0.51
24:BA:1351:C:N4	24:BA:1381:G:C6	2.79	0.51
24:BA:1439:A:C2'	24:BA:1440:G:H5'	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1447:G:N3	24:BA:1545:A:H2	2.08	0.51
24:BA:1523:U:N3	24:BA:1524:G:C5	2.79	0.51
24:BA:1592:C:O2'	24:BA:1593:G:C5'	2.58	0.51
24:BA:1676:A:N7	24:BA:1677:A:C5	2.78	0.51
24:BA:1696:G:C2'	24:BA:1697:G:O4'	2.59	0.51
24:BA:1716:U:H1'	24:BA:1746:G:H21	1.73	0.51
24:BA:2052:G:C5'	28:BE:141:ILE:HG13	2.41	0.51
24:BA:2225:A:H4'	24:BA:2226:C:O5'	2.11	0.51
24:BA:2307:G:H4'	24:BA:2311:A:N6	2.25	0.51
24:BA:2353:G:C4	24:BA:2365:G:N2	2.78	0.51
24:BA:2409:G:N2	24:BA:2410:G:C1'	2.63	0.51
24:BA:960:A:H2	24:BA:2496:C:H1'	1.76	0.51
24:BA:2538:C:O2	24:BA:2539:C:C5	2.64	0.51
24:BA:2569:G:C6	24:BA:2570:G:N7	2.78	0.51
24:BA:270(C):C:OP1	24:BA:365:C:H2'	2.11	0.51
24:BA:2543:G:N2	24:BA:2765:A:C4	2.79	0.51
24:BA:2826:A:C5	24:BA:2827:C:C6	2.98	0.51
24:BA:2856:C:O5'	24:BA:2856:C:H6	1.92	0.51
24:BA:2881:C:C2	24:BA:2882:A:N7	2.79	0.51
24:BA:322:A:O4'	24:BA:341:G:H5'	2.11	0.51
24:BA:513:A:C2	24:BA:514:A:C8	2.99	0.51
24:BA:570:G:H5''	24:BA:571:A:OP2	2.11	0.51
24:BA:627:A:C2	24:BA:651:G:C5'	2.94	0.51
24:BA:64:A:HO2'	24:BA:65:C:H5'	1.73	0.51
24:BA:662:G:C5'	36:BO:18:ARG:H	2.24	0.51
24:BA:756:C:H2'	24:BA:757:U:H5'	1.92	0.51
24:BA:784:A:C5	24:BA:792:G:C4	2.99	0.51
24:BA:804:A:C8	36:BO:39:LYS:HD2	2.45	0.51
24:BA:861:A:C8	24:BA:861:A:C3'	2.94	0.51
24:BA:875:G:C6	24:BA:876:C:N4	2.78	0.51
24:BA:879:G:O6	24:BA:899:A:C5	2.64	0.51
24:BA:906:G:N3	24:BA:906:G:C2'	2.69	0.51
24:BA:951:C:O2'	24:BA:952:G:C5'	2.54	0.51
24:BA:958:U:O2'	24:BA:959:A:P	2.68	0.51
24:BA:961:C:H42	24:BA:2031:A:C1'	2.18	0.51
25:BB:31:C:H2'	25:BB:32:C:H6	1.75	0.51
25:BB:68:C:C2	25:BB:69:G:C8	2.99	0.51
27:BD:260:ARG:CG	27:BD:260:ARG:HH11	2.24	0.51
27:BD:5:LYS:HB3	27:BD:82:ILE:CG2	2.37	0.51
28:BE:62:PRO:O	28:BE:63:LEU:C	2.48	0.51
28:BE:51:PHE:CD1	28:BE:76:ARG:CG	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:96:ARG:O	30:BG:100:TRP:HE3	1.93	0.51
30:BG:12:TYR:HA	30:BG:15:VAL:CG2	2.40	0.51
30:BG:19:LEU:HA	30:BG:22:ARG:CZ	2.41	0.51
30:BG:40:ASN:O	30:BG:156:ASP:O	2.29	0.51
30:BG:44:GLY:O	30:BG:46:ALA:N	2.43	0.51
30:BG:85:GLY:O	30:BG:86:MET:HB2	2.10	0.51
30:BG:72:ARG:C	30:BG:88:ILE:HD13	2.31	0.51
31:BH:33:LEU:HD22	31:BH:75:ALA:HB1	1.92	0.51
31:BH:43:VAL:HG13	31:BH:44:VAL:N	2.17	0.51
31:BH:9:ILE:HG13	31:BH:69:ARG:NH1	2.25	0.51
33:BL:41:PHE:O	33:BL:44:ALA:N	2.44	0.51
33:BL:79:ARG:HH11	33:BL:87:GLY:HA2	1.74	0.51
34:BM:114:ARG:O	34:BM:115:ARG:C	2.48	0.51
34:BM:113:GLY:O	34:BM:116:LEU:N	2.44	0.51
34:BM:15:LEU:C	34:BM:16:ILE:HD12	2.29	0.51
34:BM:36:GLY:HA2	34:BM:47:ALA:C	2.31	0.51
35:BN:15:GLY:CA	35:BN:52:VAL:HG21	2.40	0.51
35:BN:63:VAL:HB	35:BN:78:ARG:CB	2.41	0.51
29:BF:31:HIS:CE1	36:BO:14:LYS:HZ1	2.27	0.51
37:BP:102:VAL:O	37:BP:102:VAL:CG1	2.57	0.51
37:BP:59:ARG:NH2	37:BP:61:GLY:HA3	2.26	0.51
37:BP:16:ARG:NE	37:BP:73:PRO:CD	2.73	0.51
39:BR:30:ARG:O	39:BR:31:SER:O	2.28	0.51
39:BR:60:GLY:O	39:BR:62:LYS:N	2.43	0.51
24:BA:2377:A:H2	39:BR:87:PHE:CE2	2.29	0.51
40:BS:102:ILE:CG2	40:BS:104:ASN:ND2	2.73	0.51
44:BW:56:THR:HG22	44:BW:79:ALA:CB	2.40	0.51
44:BW:88:LYS:O	44:BW:93:GLU:OE2	2.29	0.51
46:BY:14:LYS:HB2	46:BY:15:PRO:HD3	1.93	0.51
24:BA:2114:A:N3	24:BA:2167:U:O2'	2.44	0.51
24:BA:2177:C:H5''	26:BC:213:TYR:CG	2.46	0.51
24:BA:2178:C:C2	24:BA:2179:C:C5	2.98	0.51
26:BC:76:ALA:HB2	26:BC:153:ILE:HD13	1.91	0.51
26:BC:27:HIS:HD2	26:BC:30:LYS:HZ3	1.59	0.51
26:BC:46:LYS:HD3	26:BC:46:LYS:O	2.10	0.51
26:BC:8:ARG:HA	26:BC:11:LEU:HB3	1.93	0.51
24:BA:2194:G:N1	24:BA:2195:C:N4	2.58	0.51
4:AE:131:PRO:HB2	4:AE:134:GLU:CG	2.38	0.51
1:AA:337:C:N4	1:AA:338:A:N6	2.58	0.51
24:BA:1040:C:H2'	24:BA:1040:C:O2	2.10	0.51
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1074:G:C4'	4:AE:104:ASN:HB2	2.41	0.51
1:AA:1085:U:O4'	1:AA:1094:G:C2	2.63	0.51
1:AA:1158:C:O2	1:AA:1158:C:H3'	2.11	0.51
1:AA:116:A:C2'	1:AA:117:G:H5'	2.41	0.51
1:AA:1239:A:H1'	1:AA:1241:G:C8	2.46	0.51
1:AA:1350:A:C2	1:AA:1351:U:C2	2.99	0.51
1:AA:1405:G:C1'	1:AA:1519:A:C4'	2.88	0.51
1:AA:892:A:HO2'	1:AA:1415:G:HO2'	1.56	0.51
1:AA:1431:C:N4	1:AA:1470:G:C6	2.79	0.51
1:AA:1475:G:N3	1:AA:1476:G:C8	2.79	0.51
1:AA:173:U:H5'	1:AA:197:A:C1'	2.32	0.51
1:AA:367:U:O4'	1:AA:394:G:N2	2.44	0.51
1:AA:451:A:N6	1:AA:480:U:H2'	2.25	0.51
1:AA:574:A:H8	1:AA:574:A:O5'	1.93	0.51
1:AA:607:A:C2'	1:AA:608:A:C5'	2.89	0.51
1:AA:640:A:N3	10:AK:115:SER:OG	2.31	0.51
1:AA:643:C:HO2'	1:AA:644:G:H5'	1.76	0.51
1:AA:665:A:C8	1:AA:733:A:N3	2.79	0.51
1:AA:842:C:H4'	1:AA:848:C:N3	2.26	0.51
4:AE:18:GLY:HA3	4:AE:41:ILE:HA	1.93	0.51
5:AF:123:GLN:HA	5:AF:123:GLN:OE1	2.10	0.51
5:AF:173:VAL:HG12	5:AF:175:LEU:CD1	2.37	0.51
5:AF:20:SER:HB2	5:AF:40:ARG:NH1	2.26	0.51
1:AA:407:G:O2'	6:AG:116:GLN:HA	2.11	0.51
6:AG:126:ILE:C	6:AG:132:ARG:HB2	2.30	0.51
6:AG:98:GLU:CG	6:AG:189:PRO:HG3	2.41	0.51
6:AG:34:GLU:HA	6:AG:34:GLU:OE1	2.11	0.51
6:AG:60:GLU:HG2	6:AG:202:LEU:HB3	1.93	0.51
9:AJ:18:TYR:O	9:AJ:19:GLY:C	2.49	0.51
1:AA:932:C:H5''	9:AJ:3:ARG:CB	2.40	0.51
9:AJ:41:ARG:HG2	9:AJ:41:ARG:NH1	2.26	0.51
9:AJ:50:ILE:HG22	9:AJ:56:GLN:O	2.10	0.51
10:AK:21:LYS:O	10:AK:63:LEU:HD11	2.11	0.51
12:AM:8:LEU:HD13	12:AM:94:VAL:CB	2.41	0.51
1:AA:684:A:O3'	13:AN:12:ARG:NH1	2.44	0.51
14:AO:86:ARG:O	14:AO:87:GLY:O	2.29	0.51
15:AP:81:LEU:HB2	15:AP:86:CYS:SG	2.51	0.51
15:AP:97:PRO:HG2	15:AP:103:THR:CG2	2.41	0.51
1:AA:979:C:H42	16:AQ:18:VAL:CB	2.23	0.51
1:AA:579:G:O2'	17:AR:58:MET:CE	2.59	0.51
17:AR:59:MET:O	17:AR:63:ARG:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:67:LYS:O	19:AT:68:ARG:CB	2.59	0.51
21:AV:18:LYS:HE2	21:AV:22:LEU:CD1	2.41	0.51
1:AA:191:G:C4	22:AW:105:SER:HB3	2.46	0.51
22:AW:68:LYS:O	22:AW:69:GLY:O	2.28	0.51
51:B4:36:CYS:SG	51:B4:49:CYS:N	2.83	0.51
51:B4:41:PRO:O	51:B4:43:HIS:N	2.44	0.51
51:B4:51:TYR:CG	51:B4:52:TYR:N	2.76	0.51
52:B5:19:ARG:HH22	52:B5:41:PRO:CD	2.23	0.51
55:B8:10:ILE:HD12	55:B8:32:HIS:HD2	1.76	0.51
24:BA:1011:G:O2'	24:BA:1013:C:H5''	2.11	0.51
24:BA:1069:A:N1	24:BA:1096:A:OP1	2.44	0.51
24:BA:1048:A:P	24:BA:1110:G:H22	2.34	0.51
24:BA:1257:C:H2'	24:BA:1258:C:C6	2.46	0.51
24:BA:1439:A:N7	24:BA:1440:G:C4	2.79	0.51
24:BA:1565:C:C4	24:BA:1567:A:C1'	2.87	0.51
24:BA:1635:G:H2'	24:BA:1636:C:H6	1.75	0.51
24:BA:1678:G:O5'	24:BA:1678:G:H8	1.94	0.51
24:BA:1695:G:N2	24:BA:1696:G:N9	2.58	0.51
24:BA:1809:A:H5''	24:BA:1810:A:N1	2.25	0.51
24:BA:1265:A:H62	24:BA:2013:A:H5''	1.74	0.51
24:BA:2049:G:O2'	24:BA:2050:C:O5'	2.28	0.51
24:BA:2063:C:C5	24:BA:2064:C:C5	2.99	0.51
24:BA:218:A:O2'	24:BA:219:G:H5'	2.11	0.51
24:BA:2265:U:H3'	24:BA:2265:U:H6	1.74	0.51
24:BA:2283:C:C5	24:BA:2389:G:N3	2.79	0.51
24:BA:2307:G:C8	24:BA:2308:G:C2	2.99	0.51
24:BA:2313:C:H2'	24:BA:2314:C:C6	2.45	0.51
24:BA:248:G:N2	24:BA:2431:U:C4'	2.70	0.51
24:BA:2544:G:H2'	24:BA:2545:G:C8	2.45	0.51
24:BA:2667:C:H5	24:BA:2668:G:C8	2.29	0.51
24:BA:265:A:N7	24:BA:266:G:C1'	2.71	0.51
24:BA:527:C:H5''	24:BA:2779:U:C4	2.46	0.51
24:BA:280:C:O2'	24:BA:281:G:OP1	2.29	0.51
24:BA:2863:C:O2'	24:BA:2864:G:H5'	2.10	0.51
24:BA:30:G:H2'	24:BA:31:C:O4'	2.11	0.51
24:BA:323:G:N2	24:BA:333:G:C1'	2.70	0.51
24:BA:344:G:H2'	24:BA:345:A:N9	2.26	0.51
24:BA:443:A:OP1	29:BF:46:ARG:O	2.29	0.51
24:BA:53:A:C2	24:BA:54:G:O4'	2.64	0.51
24:BA:567:A:N1	24:BA:568:U:O2	2.44	0.51
24:BA:578:A:C2'	24:BA:2018:G:H5''	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:578:A:OP1	24:BA:1255:U:O2'	2.23	0.51
24:BA:627:A:C4	24:BA:637:A:C4	2.99	0.51
24:BA:827:U:C4'	24:BA:828:U:O2	2.58	0.51
24:BA:881:G:C2	24:BA:897:C:C4	2.99	0.51
24:BA:950:G:C2'	24:BA:951:C:H6	2.16	0.51
25:BB:52:A:C4	25:BB:53:A:O4'	2.63	0.51
27:BD:183:ARG:CB	27:BD:268:ARG:HB2	2.41	0.51
28:BE:165:VAL:CG1	28:BE:166:THR:H	2.00	0.51
28:BE:184:VAL:O	28:BE:185:LYS:HB3	2.11	0.51
24:BA:1204:A:N1	29:BF:187:VAL:O	2.43	0.51
29:BF:70:THR:O	29:BF:72:ARG:N	2.40	0.51
29:BF:74:ARG:CZ	29:BF:75:HIS:CA	2.83	0.51
30:BG:163:ALA:CB	30:BG:169:ALA:HB2	2.41	0.51
30:BG:174:GLU:CG	30:BG:175:LEU:N	2.74	0.51
30:BG:75:LYS:CG	30:BG:84:LYS:HB2	2.41	0.51
32:BK:30:LEU:O	32:BK:35:LEU:HD23	2.11	0.51
33:BL:132:ARG:HG3	33:BL:132:ARG:HH11	1.73	0.51
35:BN:32:TYR:O	35:BN:34:THR:N	2.44	0.51
35:BN:12:ASP:HB3	35:BN:94:ARG:HB3	1.93	0.51
36:BO:123:LEU:HD23	36:BO:134:ALA:HA	1.92	0.51
36:BO:6:LEU:C	36:BO:7:ARG:CG	2.79	0.51
36:BO:73:GLY:HA2	36:BO:111:ARG:CG	2.20	0.51
37:BP:111:GLU:O	37:BP:113:GLN:N	2.43	0.51
37:BP:54:MET:HE3	37:BP:54:MET:HA	1.93	0.51
38:BQ:10:LEU:HD13	38:BQ:17:ARG:HD3	1.92	0.51
38:BQ:26:LYS:HE2	38:BQ:70:LEU:CA	2.40	0.51
41:BT:112:ARG:NH2	42:BU:49:THR:HG23	2.25	0.51
42:BU:49:THR:HG22	42:BU:53:GLU:CG	2.41	0.51
43:BV:25:ARG:CD	43:BV:74:ALA:HB3	2.41	0.51
44:BW:17:ALA:CB	44:BW:21:PHE:CZ	2.93	0.51
45:BX:97:ARG:CB	45:BX:101:LYS:HG2	2.40	0.51
45:BX:19:LYS:NZ	45:BX:39:VAL:CG1	2.74	0.51
45:BX:86:ARG:CG	45:BX:91:GLU:O	2.53	0.51
46:BY:4:ARG:HG3	46:BY:44:PHE:CZ	2.46	0.51
46:BY:41:LEU:O	46:BY:45:ASP:CG	2.48	0.51
46:BY:6:LYS:HZ2	46:BY:10:ARG:HH22	1.59	0.51
47:BZ:11:ARG:CB	47:BZ:11:ARG:NH1	2.67	0.51
24:BA:2129:C:O3'	26:BC:6:ARG:HB3	2.11	0.51
24:BA:2135:A:H61	24:BA:2159:G:N2	2.09	0.51
24:BA:2112:G:C6	24:BA:2169:A:N6	2.79	0.51
26:BC:82:LYS:HD2	26:BC:116:THR:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:61:THR:HG21	26:BC:160:ARG:HH21	1.76	0.51
26:BC:64:LEU:CB	26:BC:188:ASN:ND2	2.74	0.51
24:BA:1579:A:C8	24:BA:1580:A:N3	2.79	0.51
24:BA:2246:G:N3	24:BA:2247:A:C5	2.77	0.51
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.30	0.51
1:AA:1079:G:C4	1:AA:1080:A:C2	2.98	0.51
1:AA:1105:A:C2	1:AA:1106:G:C8	2.99	0.51
1:AA:1134:G:C6	1:AA:1135:U:C1'	2.92	0.51
1:AA:1180:A:O2'	1:AA:1181:G:H5'	2.11	0.51
1:AA:1299:A:C8	1:AA:1301:U:H1'	2.45	0.51
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.41	0.51
1:AA:1349:A:O2'	1:AA:1350:A:H5'	2.11	0.51
1:AA:1530:G:OP1	1:AA:1530:G:H4'	2.11	0.51
1:AA:333:G:C2	1:AA:334:C:C4	2.99	0.51
1:AA:394:G:C6	1:AA:395:C:C4	2.99	0.51
1:AA:447:G:N2	1:AA:488:C:N4	2.59	0.51
1:AA:61:G:N7	1:AA:62:U:C4	2.79	0.51
1:AA:5:U:O2'	1:AA:6:G:OP2	2.21	0.51
2:AC:34:C:C4	2:AC:35:A:N7	2.79	0.51
2:AC:38:A:C2'	2:AC:39:C:C5'	2.88	0.51
4:AE:16:HIS:O	4:AE:204:ASN:CB	2.58	0.51
4:AE:175:ARG:HA	4:AE:178:ARG:HB3	1.91	0.51
4:AE:68:ILE:HD12	4:AE:70:PHE:HZ	1.74	0.51
5:AF:23:TYR:O	5:AF:24:ALA:HB2	2.11	0.51
5:AF:73:PRO:HG2	5:AF:74:GLY:H	1.76	0.51
6:AG:119:GLN:C	6:AG:123:HIS:HD2	2.14	0.51
6:AG:129:ASN:CG	6:AG:144:ASP:HB3	2.30	0.51
9:AJ:93:PRO:O	9:AJ:95:ARG:N	2.45	0.51
10:AK:100:ILE:HD13	10:AK:125:ARG:HH21	1.74	0.51
2:AC:31:G:H5'	11:AL:127:LYS:HG3	1.93	0.51
11:AL:85:LEU:HG	11:AL:92:TYR:HD1	1.76	0.51
11:AL:9:ARG:HD3	11:AL:14:VAL:HG13	1.92	0.51
12:AM:81:THR:O	12:AM:85:LEU:HD12	2.10	0.51
1:AA:685:G:H4'	13:AN:40:ILE:O	2.11	0.51
13:AN:58:PRO:HA	13:AN:90:GLY:HA3	1.92	0.51
13:AN:48:ILE:CD1	13:AN:63:LEU:HD22	2.40	0.51
14:AO:113:ARG:NH2	14:AO:116:SER:O	2.44	0.51
1:AA:563:A:N3	14:AO:15:ARG:NH1	2.58	0.51
15:AP:34:LEU:CD2	15:AP:39:ILE:HG13	2.34	0.51
17:AR:25:THR:O	17:AR:29:VAL:HG23	2.10	0.51
19:AT:50:LYS:HG2	19:AT:51:TYR:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1318:A:C4'	21:AV:10:PHE:HD2	2.19	0.51
48:B1:16:LEU:CD2	48:B1:59:LEU:CB	2.82	0.51
48:B1:1:MET:HE3	48:B1:3:LYS:HB2	1.92	0.51
48:B1:51:GLN:HG3	48:B1:54:ARG:HH11	1.76	0.51
49:B2:45:GLY:C	49:B2:48:GLU:HG2	2.26	0.51
51:B4:31:VAL:HB	51:B4:32:PRO:CD	2.29	0.51
52:B5:35:GLU:OE2	52:B5:52:VAL:HG13	2.10	0.51
24:BA:126:A:C5	53:B6:18:PHE:CE2	2.99	0.51
53:B6:27:GLY:O	53:B6:28:ARG:C	2.50	0.51
54:B7:58:ILE:HA	54:B7:61:LEU:CB	2.40	0.51
24:BA:1050:A:H2'	24:BA:1051:G:H8	1.76	0.51
24:BA:1064:C:P	33:BL:89:HIS:HA	2.51	0.51
24:BA:1036:G:C6	24:BA:1120:G:O6	2.63	0.51
24:BA:1124:C:H6	24:BA:1124:C:O5'	1.94	0.51
24:BA:1281:G:C4	24:BA:1282:U:C5	2.98	0.51
24:BA:1356:G:N2	24:BA:1357:U:H1'	2.25	0.51
24:BA:1364:G:N1	24:BA:1368:G:C6	2.79	0.51
24:BA:1471:A:N9	24:BA:1521:G:N2	2.59	0.51
24:BA:1410:G:C2	24:BA:1593:G:C2	2.99	0.51
24:BA:1670:C:H2'	24:BA:1671:U:O4'	2.11	0.51
24:BA:1789:A:C4'	27:BD:222:ARG:NH2	2.73	0.51
24:BA:1797:C:C2	24:BA:1798:U:C5	2.99	0.51
24:BA:1843:C:C2	24:BA:1844:C:C5	2.99	0.51
24:BA:1851:U:C4	24:BA:1852:C:N4	2.78	0.51
24:BA:1854:A:C2	24:BA:1855:G:H1'	2.46	0.51
24:BA:1902:C:H5'	27:BD:244:ARG:CZ	2.41	0.51
24:BA:529:A:N7	24:BA:2023:G:C5	2.79	0.51
24:BA:2346:A:N3	24:BA:2383:G:C6	2.79	0.51
24:BA:2348:U:H2'	24:BA:2349:G:C5'	2.41	0.51
24:BA:2355:C:C5	24:BA:2356:C:C4	2.99	0.51
24:BA:2345:G:N2	24:BA:2381:C:H2'	2.26	0.51
24:BA:2417:C:H2'	24:BA:2418:A:C8	2.46	0.51
24:BA:826:U:H5''	24:BA:2429:G:P	2.50	0.51
24:BA:2431:U:O2	24:BA:2433:A:H8	1.94	0.51
24:BA:2051:A:N1	24:BA:2614:A:C6	2.79	0.51
24:BA:2636:U:C6	24:BA:2636:U:H5''	2.46	0.51
24:BA:2642:G:H2'	24:BA:2643:G:H8	1.76	0.51
24:BA:2657:A:N6	24:BA:2664:G:H21	1.88	0.51
24:BA:2726:U:H4'	24:BA:2727:G:OP1	2.10	0.51
24:BA:2807:G:N3	24:BA:2807:G:C2'	2.64	0.51
24:BA:2815:C:O2'	51:B4:42:PRO:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2824:C:C4	24:BA:2825:C:C1'	2.94	0.51
24:BA:290:G:N1	24:BA:351:G:C2	2.78	0.51
24:BA:107:C:C5'	24:BA:293:U:O4'	2.54	0.51
24:BA:318:C:O2'	24:BA:319:C:H5'	2.11	0.51
24:BA:388:G:C5'	50:B3:23:GLU:HB3	2.41	0.51
24:BA:481:G:H2'	24:BA:507:A:H61	1.73	0.51
24:BA:522:G:H2'	24:BA:523:C:C6	2.46	0.51
24:BA:527:C:O2'	24:BA:528:A:C4	2.64	0.51
24:BA:587:C:O2'	24:BA:588:U:P	2.69	0.51
24:BA:642:G:C2	24:BA:644:A:C2	2.99	0.51
24:BA:675:A:C8	24:BA:676:A:C2	2.97	0.51
24:BA:677:A:H2'	24:BA:678:C:H6	1.75	0.51
24:BA:783:A:N1	24:BA:785:G:C1'	2.74	0.51
24:BA:807:U:OP1	24:BA:830:G:N2	2.43	0.51
24:BA:864:G:H1'	24:BA:914:C:H42	1.76	0.51
24:BA:905:U:OP1	37:BP:141:GLN:O	2.28	0.51
24:BA:989:G:P	49:B2:10:LYS:NZ	2.83	0.51
25:BB:10:C:H2'	25:BB:11:C:O5'	2.11	0.51
25:BB:37:C:O2	39:BR:95:HIS:NE2	2.44	0.51
24:BA:1820:U:C5	27:BD:159:ALA:HB3	2.46	0.51
24:BA:1799:G:H4'	27:BD:264:LYS:HE2	1.92	0.51
24:BA:692:C:H5''	27:BD:60:ARG:NH2	2.26	0.51
28:BE:154:LYS:NZ	28:BE:156:MET:HE2	2.25	0.51
28:BE:14:ILE:CA	28:BE:19:ARG:HB2	2.29	0.51
28:BE:51:PHE:HE1	28:BE:75:VAL:N	2.03	0.51
28:BE:53:PRO:O	28:BE:54:GLN:O	2.29	0.51
29:BF:122:LYS:HD2	29:BF:192:LEU:HD12	1.92	0.51
29:BF:4:VAL:HG12	29:BF:4:VAL:O	2.11	0.51
24:BA:674:G:O3'	29:BF:74:ARG:NH2	2.44	0.51
30:BG:33:ARG:HD2	30:BG:34:LEU:N	2.25	0.51
30:BG:49:ASP:H	30:BG:53:LEU:CD1	2.24	0.51
30:BG:63:ILE:HG23	30:BG:64:THR:N	2.25	0.51
31:BH:41:MET:O	31:BH:53:GLU:HB2	2.11	0.51
32:BK:5:LEU:HB3	32:BK:8:PRO:CB	2.41	0.51
33:BL:32:ALA:HA	33:BL:37:PHE:HE1	1.76	0.51
33:BL:23:VAL:HG12	33:BL:34:ILE:HA	1.93	0.51
33:BL:33:ASN:N	33:BL:37:PHE:CD1	2.77	0.51
24:BA:1076:C:H5'	33:BL:93:ARG:HH21	1.75	0.51
33:BL:88:ALA:O	33:BL:94:GLU:OE1	2.29	0.51
35:BN:12:ASP:HA	35:BN:97:ARG:HH22	1.76	0.51
36:BO:64:LYS:C	36:BO:65:ARG:CG	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:92:GLU:N	36:BO:92:GLU:OE2	2.44	0.51
40:BS:33:LYS:HB3	40:BS:45:PHE:CA	2.41	0.51
41:BT:37:GLU:C	41:BT:39:LEU:N	2.62	0.51
24:BA:1198:U:H4'	41:BT:9:VAL:HG22	1.93	0.51
42:BU:5:VAL:HG22	42:BU:39:LEU:CD2	2.40	0.51
43:BV:25:ARG:NH2	43:BV:74:ALA:O	2.44	0.51
45:BX:5:MET:HA	45:BX:33:LYS:HE2	1.93	0.51
46:BY:110:GLY:N	46:BY:144:LEU:HD12	2.25	0.51
46:BY:161:VAL:O	46:BY:162:GLU:CB	2.59	0.51
46:BY:59:LEU:HD21	46:BY:66:SER:OG	2.11	0.51
32:BK:109:ILE:CG2	32:BK:113:ARG:NH2	2.74	0.51
32:BK:73:GLU:HG3	32:BK:138:ILE:HD11	1.91	0.51
32:BK:95:LYS:O	32:BK:96:ASP:C	2.49	0.51
3:AD:59:U:OP2	3:AD:59:U:O4'	2.28	0.51
3:AD:52:G:N1	3:AD:63:G:C6	2.78	0.51
24:BA:2677:G:C2'	24:BA:2678:C:H5'	2.41	0.51
24:BA:363(B):G:C2	24:BA:363(C):G:C5	2.99	0.51
24:BA:1484:G:C2'	24:BA:1485:G:O5'	2.58	0.51
1:AA:1060:C:H5''	12:AM:51:ARG:HB3	1.93	0.50
1:AA:1189:C:O5'	1:AA:1189:C:H6	1.94	0.50
1:AA:1054:C:P	1:AA:1197:G:P	3.09	0.50
1:AA:1247:U:H2'	1:AA:1248:A:C8	2.40	0.50
1:AA:1301:U:C4	1:AA:1303:C:N1	2.78	0.50
1:AA:1479:C:H2'	1:AA:1480:G:O4'	2.10	0.50
1:AA:1500:A:C6	1:AA:1501:C:N4	2.79	0.50
1:AA:166:G:HO2'	1:AA:167:G:H5'	1.72	0.50
1:AA:198:G:N2	1:AA:199:G:H1'	2.26	0.50
1:AA:196:A:O2'	1:AA:222:U:H5'	2.11	0.50
1:AA:356:A:C2'	1:AA:357:G:H5'	2.40	0.50
1:AA:404:U:H2'	1:AA:405:U:C5	2.45	0.50
1:AA:44:G:N3	1:AA:45:U:O4'	2.44	0.50
1:AA:50:A:C4'	1:AA:51:A:H5'	2.41	0.50
1:AA:52:G:C6	1:AA:360:A:C2	2.99	0.50
1:AA:541:G:O4'	6:AG:42:GLN:NE2	2.44	0.50
1:AA:571:U:O4'	1:AA:819:A:N7	2.44	0.50
1:AA:719:C:H3'	1:AA:720:C:C5	2.46	0.50
1:AA:848:C:C2	1:AA:849:C:C6	2.99	0.50
1:AA:864:A:N1	1:AA:865:A:C2	2.79	0.50
1:AA:888:G:OP2	1:AA:889:A:H2'	2.11	0.50
1:AA:908:A:N3	1:AA:909:A:N7	2.59	0.50
2:AC:26:G:H2'	2:AC:26:G:N3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:4:G:C6	3:AD:5:A:N7	2.79	0.50
4:AE:114:ARG:CG	4:AE:115:LEU:N	2.74	0.50
4:AE:163:PHE:HB2	4:AE:185:ILE:HG13	1.92	0.50
4:AE:88:ALA:CB	4:AE:219:VAL:HG13	2.41	0.50
4:AE:21:ARG:O	4:AE:23:ARG:N	2.43	0.50
6:AG:120:LEU:CG	6:AG:121:VAL:N	2.74	0.50
6:AG:127:THR:HA	6:AG:131:ARG:O	2.11	0.50
6:AG:127:THR:O	6:AG:146:ILE:CG2	2.57	0.50
6:AG:144:ASP:CA	6:AG:184:LYS:HD3	2.42	0.50
6:AG:195:ALA:C	6:AG:196:LEU:HG	2.30	0.50
6:AG:30:LYS:HA	6:AG:34:GLU:HB3	1.92	0.50
7:AH:34:VAL:O	7:AH:41:VAL:HG12	2.11	0.50
8:AI:1:MET:SD	8:AI:68:PRO:HD3	2.51	0.50
8:AI:2:ARG:O	8:AI:67:MET:HE1	2.10	0.50
9:AJ:17:VAL:CG1	9:AJ:17:VAL:O	2.59	0.50
13:AN:63:LEU:O	13:AN:66:LEU:HB2	2.11	0.50
13:AN:16:SER:HA	13:AN:79:SER:HB3	1.93	0.50
13:AN:85:ARG:CD	13:AN:113:PRO:HD2	2.42	0.50
14:AO:113:ARG:HD2	14:AO:114:LYS:H	1.75	0.50
14:AO:37:CYS:SG	14:AO:78:GLN:O	2.69	0.50
15:AP:14:ARG:CG	15:AP:44:ARG:NH1	2.75	0.50
19:AT:2:PRO:O	19:AT:4:LYS:N	2.44	0.50
20:AU:34:TYR:CE1	20:AU:35:ARG:HG3	2.46	0.50
20:AU:59:SER:O	20:AU:62:GLU:HB2	2.09	0.50
49:B2:16:PRO:O	49:B2:19:GLN:HB3	2.10	0.50
49:B2:23:LEU:O	49:B2:28:LEU:HG	2.11	0.50
49:B2:4:LEU:HD23	49:B2:5:LYS:O	2.10	0.50
50:B3:14:ILE:HG22	50:B3:37:SER:O	2.12	0.50
50:B3:32:TYR:C	50:B3:32:TYR:CD1	2.84	0.50
24:BA:1025:G:N3	24:BA:1025:G:C2'	2.74	0.50
24:BA:1059:G:C5	24:BA:1060:U:H1'	2.46	0.50
24:BA:1196:C:N3	24:BA:1250:G:O6	2.43	0.50
24:BA:1269:A:O5'	24:BA:1269:A:C8	2.62	0.50
24:BA:1426:G:O6	24:BA:1427:A:N6	2.43	0.50
24:BA:1503:U:C2	24:BA:1504:C:C5	2.99	0.50
24:BA:1560:G:C2'	24:BA:1561:G:C8	2.92	0.50
24:BA:15:G:H2'	24:BA:16:G:H8	1.76	0.50
24:BA:1656:C:H4'	28:BE:136:ARG:HH12	1.75	0.50
24:BA:1704:G:H2'	24:BA:1705:G:O5'	2.11	0.50
24:BA:1728:G:H1	24:BA:1733:G:H22	1.57	0.50
24:BA:1699:G:O6	24:BA:1763:G:O4'	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1364:G:P	24:BA:1809:A:C6	3.05	0.50
24:BA:1936:A:C1'	24:BA:1940:U:C4	2.94	0.50
24:BA:195:A:OP2	24:BA:196:A:O3'	2.29	0.50
24:BA:1961:C:O2'	24:BA:1962:C:H5'	2.11	0.50
24:BA:2198:A:C2	24:BA:2225:A:N6	2.80	0.50
24:BA:2209:C:H4'	27:BD:150:LYS:CG	2.41	0.50
24:BA:2212:A:O4'	24:BA:2212:A:P	2.69	0.50
24:BA:2243:U:C2'	24:BA:2244:U:O4'	2.59	0.50
24:BA:2424:C:H5''	24:BA:2425:A:H5'	1.93	0.50
24:BA:244:A:C2'	36:BO:65:ARG:HH22	2.25	0.50
24:BA:250:G:C2	24:BA:251:A:N7	2.79	0.50
24:BA:2530:A:H2'	24:BA:2531:A:H5''	1.92	0.50
24:BA:2540:C:H2'	24:BA:2541:A:O4'	2.10	0.50
24:BA:262:A:H2'	24:BA:263:C:O5'	2.09	0.50
24:BA:2652:C:C2'	24:BA:2653:U:C6	2.89	0.50
24:BA:270(E):G:C4	24:BA:270(V):G:N2	2.80	0.50
24:BA:2719:G:O5'	24:BA:2719:G:C8	2.64	0.50
24:BA:527:C:O4'	24:BA:2779:U:C4	2.65	0.50
24:BA:2815:C:C2	24:BA:2816:C:C6	3.00	0.50
24:BA:356:G:H3'	24:BA:357:A:H8	1.75	0.50
24:BA:373:U:H4'	24:BA:374:A:N7	2.26	0.50
24:BA:385:C:C6	24:BA:385:C:O5'	2.64	0.50
24:BA:386:G:C4'	24:BA:387:U:C6	2.81	0.50
24:BA:544:C:C2'	24:BA:545:G:C5'	2.89	0.50
24:BA:546:C:H2'	24:BA:547:A:H8	1.72	0.50
24:BA:684:G:C2'	24:BA:687:C:H41	2.24	0.50
24:BA:733:G:C6	24:BA:761:A:N7	2.79	0.50
24:BA:798:G:N7	29:BF:62:ARG:NH2	2.59	0.50
24:BA:814:C:H2'	24:BA:815:C:C6	2.45	0.50
24:BA:827:U:O3'	24:BA:828:U:O2	2.29	0.50
24:BA:872:A:N1	24:BA:873:G:C6	2.79	0.50
24:BA:917:A:O2'	24:BA:918:A:O5'	2.25	0.50
24:BA:969:U:H2'	24:BA:970:C:O4'	2.11	0.50
25:BB:6:C:H5''	25:BB:27:C:O2	2.12	0.50
27:BD:155:LEU:CA	27:BD:157:ARG:HH21	2.20	0.50
27:BD:219:PRO:HG2	27:BD:220:HIS:NE2	2.26	0.50
27:BD:263:ARG:C	27:BD:264:LYS:HG2	2.30	0.50
28:BE:170:LEU:HD23	28:BE:170:LEU:N	2.26	0.50
28:BE:176:ILE:HD11	28:BE:179:GLU:CG	2.36	0.50
29:BF:110:LEU:HD23	29:BF:110:LEU:O	2.11	0.50
29:BF:9:ILE:CG2	29:BF:124:LEU:HB2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:443:A:H61	29:BF:41:LEU:CD1	2.24	0.50
30:BG:32:PRO:CB	30:BG:163:ALA:CA	2.88	0.50
30:BG:91:ARG:HD3	30:BG:91:ARG:C	2.31	0.50
31:BH:94:TYR:OH	31:BH:128:PRO:HB2	2.11	0.50
31:BH:15:VAL:HG13	31:BH:17:VAL:CG1	2.41	0.50
31:BH:160:LYS:O	31:BH:160:LYS:HG2	2.09	0.50
31:BH:88:LEU:C	31:BH:88:LEU:CD2	2.79	0.50
32:BK:8:PRO:HD3	32:BK:35:LEU:O	2.11	0.50
24:BA:1096:A:N1	33:BL:26:ALA:HB1	2.25	0.50
33:BL:35:MET:O	33:BL:38:VAL:HG12	2.11	0.50
33:BL:66:THR:HG22	33:BL:67:PHE:N	2.26	0.50
34:BM:37:LYS:HZ2	34:BM:43:THR:HG23	1.75	0.50
34:BM:49:GLY:O	34:BM:50:ASP:O	2.29	0.50
34:BM:23:LEU:CG	34:BM:61:ARG:O	2.58	0.50
34:BM:76:SER:C	34:BM:78:TYR:N	2.65	0.50
34:BM:91:LEU:CG	34:BM:92:ALA:N	2.74	0.50
35:BN:63:VAL:C	35:BN:78:ARG:HG3	2.32	0.50
35:BN:17:ARG:NH2	35:BN:98:VAL:O	2.44	0.50
36:BO:45:LEU:HB3	36:BO:46:LYS:HE3	1.92	0.50
36:BO:49:ARG:HG3	54:B7:52:LYS:HG3	1.94	0.50
36:BO:6:LEU:O	36:BO:6:LEU:CG	2.59	0.50
24:BA:873:G:H5'	37:BP:66:ILE:HD11	1.91	0.50
37:BP:75:THR:HB	37:BP:77:LYS:NZ	2.25	0.50
38:BQ:39:PRO:C	38:BQ:41:ALA:N	2.63	0.50
38:BQ:54:LEU:HD23	38:BQ:65:LEU:HD13	1.93	0.50
24:BA:2334:G:N2	39:BR:11:LYS:HZ2	2.09	0.50
39:BR:17:ARG:O	39:BR:20:ARG:N	2.44	0.50
39:BR:39:ILE:O	39:BR:47:THR:CG2	2.58	0.50
35:BN:75:SER:O	40:BS:77:PRO:CD	2.58	0.50
41:BT:111:GLU:HA	41:BT:114:LYS:NZ	2.26	0.50
44:BW:15:GLU:HB3	44:BW:16:LYS:HZ3	1.74	0.50
45:BX:29:GLU:OE1	45:BX:34:LYS:HD2	2.11	0.50
45:BX:44:ILE:HB	45:BX:46:LYS:HG3	1.93	0.50
46:BY:118:GLN:NE2	46:BY:174:VAL:CA	2.62	0.50
24:BA:2171:A:C2	24:BA:2172:U:C2	2.99	0.50
26:BC:103:ILE:HG12	26:BC:108:MET:SD	2.51	0.50
26:BC:54:SER:C	26:BC:56:GLN:H	2.14	0.50
24:BA:273(F):C:H1'	24:BA:363(A):A:C6	2.45	0.50
49:B2:2:PRO:HA	49:B2:60:GLU:OE2	2.11	0.50
1:AA:1017:G:O5'	1:AA:1017:G:H8	1.95	0.50
1:AA:1122:U:H2'	1:AA:1123:A:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1118:C:C2	1:AA:1156:G:N2	2.80	0.50
1:AA:1415:G:C2'	1:AA:1416:G:H5'	2.40	0.50
1:AA:1447:G:C6	1:AA:1448:C:N4	2.80	0.50
1:AA:1406:U:H1'	1:AA:1518:A:O4'	2.11	0.50
1:AA:176:C:H2'	1:AA:177:C:H6	1.77	0.50
1:AA:293:G:H4'	1:AA:609:A:C2	2.46	0.50
1:AA:545:C:C2	1:AA:546:G:C8	2.99	0.50
1:AA:729:A:C2	1:AA:765:G:H1'	2.45	0.50
1:AA:881:G:C5	1:AA:882:C:C5	3.00	0.50
1:AA:952:U:HO2'	1:AA:953:G:H5'	1.74	0.50
3:AD:49:G:C2	3:AD:66:C:C2	2.98	0.50
5:AF:191:THR:HB	5:AF:193:TYR:CD2	2.46	0.50
6:AG:125:HIS:HA	6:AG:149:ALA:CB	2.36	0.50
6:AG:52:SER:O	6:AG:53:ASP:C	2.49	0.50
7:AH:125:SER:O	7:AH:127:ASN:N	2.38	0.50
7:AH:125:SER:OG	7:AH:127:ASN:HB3	2.12	0.50
8:AI:12:PRO:HB2	8:AI:57:GLN:NE2	2.26	0.50
8:AI:64:GLN:HG2	8:AI:65:VAL:N	2.25	0.50
9:AJ:54:THR:O	9:AJ:56:GLN:N	2.43	0.50
10:AK:111:ILE:O	10:AK:134:ILE:HB	2.11	0.50
10:AK:126:LYS:CD	10:AK:127:LEU:N	2.74	0.50
10:AK:46:LYS:HE3	10:AK:64:LYS:HA	1.92	0.50
11:AL:11:LYS:N	11:AL:104:ARG:NH2	2.59	0.50
12:AM:6:ILE:HG12	12:AM:73:ASP:H	1.76	0.50
12:AM:8:LEU:HD23	12:AM:95:GLU:O	2.11	0.50
13:AN:23:ALA:CA	13:AN:28:THR:HG23	2.41	0.50
13:AN:54:ARG:C	13:AN:56:GLY:N	2.64	0.50
14:AO:34:ARG:HB2	14:AO:105:TYR:HH	1.73	0.50
14:AO:69:TYR:O	14:AO:100:ILE:CD1	2.59	0.50
14:AO:83:VAL:HG22	14:AO:84:LEU:N	2.23	0.50
14:AO:93:LEU:HB2	14:AO:96:VAL:CG2	2.41	0.50
16:AQ:12:ARG:C	16:AQ:14:PRO:N	2.63	0.50
17:AR:15:PHE:N	17:AR:15:PHE:CD1	2.80	0.50
17:AR:33:THR:HG23	17:AR:63:ARG:NH1	2.26	0.50
17:AR:34:LEU:CD1	17:AR:35:ARG:N	2.74	0.50
18:AS:21:VAL:CG2	18:AS:34:GLU:O	2.57	0.50
19:AT:97:SER:CB	19:AT:104:LYS:H	2.24	0.50
19:AT:60:ILE:HD11	19:AT:61:GLU:O	2.10	0.50
1:AA:189:U:C2	19:AT:63:ARG:NH2	2.79	0.50
20:AU:75:ILE:HB	20:AU:76:LEU:CD2	2.40	0.50
21:AV:5:LEU:HD12	21:AV:9:VAL:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:27:LEU:HG	48:B1:48:LEU:CD2	2.34	0.50
49:B2:8:LEU:CB	49:B2:33:GLN:HB3	2.35	0.50
49:B2:39:ASP:C	49:B2:44:ARG:HH11	2.15	0.50
49:B2:50:VAL:HG12	49:B2:51:ALA:N	2.26	0.50
50:B3:11:PRO:HA	50:B3:40:HIS:CD2	2.46	0.50
50:B3:5:ILE:HG13	50:B3:10:VAL:N	2.26	0.50
51:B4:15:ARG:O	51:B4:16:ARG:C	2.50	0.50
43:BV:38:TYR:CE2	51:B4:39:MET:HE1	2.47	0.50
24:BA:2362:G:P	54:B7:29:LYS:HE3	2.51	0.50
24:BA:1071:G:N2	24:BA:1089:G:H2'	2.26	0.50
24:BA:1114:G:N1	24:BA:1115:G:C8	2.79	0.50
24:BA:1161:C:C6	24:BA:1161:C:O5'	2.64	0.50
24:BA:1223:C:OP2	42:BU:69:LYS:NZ	2.42	0.50
24:BA:1223:C:O2	24:BA:1225:C:OP2	2.29	0.50
24:BA:1239:G:H2'	24:BA:1240:U:O4'	2.11	0.50
24:BA:1338:G:H2'	24:BA:1339:G:C5'	2.42	0.50
24:BA:1426:G:C8	24:BA:1427:A:N7	2.80	0.50
24:BA:1478:G:C2	24:BA:1479:G:C4	2.99	0.50
24:BA:1472:A:N1	24:BA:1518:C:N4	2.59	0.50
24:BA:1469:A:C6	24:BA:1522:G:N2	2.80	0.50
24:BA:1530:G:N2	24:BA:1541:U:C2'	2.73	0.50
24:BA:1726:G:N1	24:BA:1727:U:O4	2.44	0.50
24:BA:1754:C:N3	24:BA:1755:A:C5	2.79	0.50
24:BA:1790:C:O2	24:BA:1790:C:H2'	2.10	0.50
24:BA:2243:U:C2	24:BA:2244:U:C5	3.00	0.50
24:BA:2320:A:C5'	24:BA:2321:G:C5	2.94	0.50
24:BA:2323:G:C6	24:BA:2324:C:N4	2.79	0.50
24:BA:2356:C:H5''	24:BA:2356:C:C6	2.46	0.50
24:BA:2346:A:C1'	24:BA:2383:G:C8	2.82	0.50
24:BA:2442:C:H2'	24:BA:2443:C:H6	1.76	0.50
24:BA:746:A:C8	24:BA:2612:C:P	3.04	0.50
24:BA:2641:G:OP1	34:BM:75:TYR:CD1	2.64	0.50
24:BA:2642:G:C4	24:BA:2643:G:C8	3.00	0.50
24:BA:2694:G:N2	24:BA:2716:U:C2	2.79	0.50
24:BA:307:G:C2	24:BA:309:G:C5'	2.95	0.50
24:BA:349:G:C3'	24:BA:350:U:C5	2.90	0.50
24:BA:247:G:H4'	24:BA:386:G:C2	2.46	0.50
24:BA:43:G:H2'	24:BA:44:A:H5'	1.92	0.50
24:BA:459:U:O2'	24:BA:460:A:O5'	2.28	0.50
24:BA:501:A:C6	24:BA:502:A:N1	2.79	0.50
24:BA:602:G:C8	24:BA:602:G:O5'	2.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:635:C:C2'	24:BA:636:G:H5'	2.41	0.50
24:BA:637:A:N3	24:BA:651:G:H4'	2.25	0.50
24:BA:918:A:C2	24:BA:919:G:C6	2.97	0.50
24:BA:91:A:C2'	24:BA:92:G:O5'	2.56	0.50
24:BA:950:G:C6	24:BA:968:G:C6	2.99	0.50
24:BA:969:U:C2	24:BA:970:C:C5	2.99	0.50
24:BA:1901:A:O2'	27:BD:244:ARG:CZ	2.58	0.50
28:BE:25:VAL:CG2	28:BE:182:LEU:O	2.58	0.50
24:BA:2636:U:C4'	28:BE:79:ARG:NH2	2.72	0.50
29:BF:103:LYS:O	29:BF:106:ARG:CG	2.59	0.50
29:BF:41:LEU:HA	29:BF:44:ARG:HG2	1.92	0.50
30:BG:49:ASP:C	30:BG:53:LEU:HD22	2.31	0.50
31:BH:155:SER:HG	31:BH:159:GLU:HG3	1.75	0.50
31:BH:20:ALA:HB3	31:BH:23:ARG:O	2.11	0.50
31:BH:25:LYS:CG	31:BH:32:GLU:HB2	2.41	0.50
32:BK:21:VAL:C	32:BK:26:ALA:HB2	2.31	0.50
32:BK:40:THR:HG22	32:BK:42:SER:H	1.77	0.50
32:BK:5:LEU:HG	32:BK:17:GLN:C	2.32	0.50
34:BM:70:LYS:HD2	34:BM:86:PRO:CG	2.42	0.50
35:BN:17:ARG:HH22	35:BN:98:VAL:HG23	1.68	0.50
36:BO:80:TYR:CE2	36:BO:85:LEU:HD21	2.46	0.50
37:BP:115:MET:C	37:BP:115:MET:SD	2.89	0.50
37:BP:122:GLY:O	37:BP:125:LEU:N	2.44	0.50
37:BP:65:PHE:N	37:BP:106:VAL:HG12	2.26	0.50
39:BR:3:ARG:O	39:BR:4:LEU:C	2.50	0.50
24:BA:531:C:O2	41:BT:28:ARG:CZ	2.58	0.50
42:BU:69:LYS:H	42:BU:92:THR:HB	1.74	0.50
43:BV:43:GLY:HA2	43:BV:46:PHE:HD1	1.76	0.50
24:BA:1340:U:H5"	44:BW:57:LEU:CD1	2.41	0.50
45:BX:72:VAL:HG12	45:BX:79:CYS:SG	2.51	0.50
46:BY:100:VAL:O	46:BY:124:ILE:CG2	2.58	0.50
46:BY:39:VAL:CG1	46:BY:41:LEU:HD23	2.40	0.50
46:BY:9:TYR:CG	46:BY:14:LYS:HG2	2.46	0.50
47:BZ:20:ARG:HB3	47:BZ:24:LYS:NZ	2.26	0.50
26:BC:60:GLY:HA3	26:BC:199:HIS:NE2	2.26	0.50
24:BA:1575:C:N4	24:BA:1576:U:H3	2.08	0.50
1:AA:1169:A:P	1:AA:1169:A:H8	2.35	0.50
1:AA:1170:A:N7	1:AA:1171:G:C4	2.80	0.50
1:AA:338:A:C2	1:AA:339:C:C2	2.98	0.50
1:AA:1020:U:H2'	1:AA:1021:G:H8	1.77	0.50
25:BB:35:U:C2	25:BB:36:C:C6	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:65:GLN:CA	48:B1:65:GLN:NE2	2.75	0.50
1:AA:1071:C:N4	1:AA:1084:G:N2	2.58	0.50
1:AA:1105:A:N3	1:AA:1106:G:C8	2.78	0.50
1:AA:1315:U:O2	1:AA:1361:G:H1'	2.11	0.50
1:AA:1446:A:O2'	1:AA:1447:G:OP1	2.27	0.50
1:AA:1498:U:O2	1:AA:1498:U:H2'	2.11	0.50
1:AA:150:C:O5'	1:AA:150:C:C6	2.65	0.50
1:AA:103:C:H1'	1:AA:151:A:H2	1.74	0.50
1:AA:266:G:H21	1:AA:269:C:H41	1.57	0.50
1:AA:402:G:C6	1:AA:403:C:C5	3.00	0.50
1:AA:453:A:N6	1:AA:480:U:N3	2.59	0.50
1:AA:518:C:H3'	1:AA:530:G:H1'	1.93	0.50
1:AA:52:G:H2'	1:AA:53:A:H8	1.75	0.50
1:AA:560:U:OP1	1:AA:566:G:N2	2.43	0.50
1:AA:598:U:C2	1:AA:599:C:C5	2.99	0.50
1:AA:658:G:C6	1:AA:659:U:C4	2.99	0.50
1:AA:720:C:C6	1:AA:720:C:H3'	2.47	0.50
1:AA:865:A:C5	1:AA:866:C:N3	2.79	0.50
1:AA:945:G:N2	1:AA:1337:G:C2	2.79	0.50
3:AD:72:C:H3'	3:AD:73:A:H8	1.76	0.50
4:AE:75:LYS:HZ2	4:AE:78:GLN:NE2	2.09	0.50
5:AF:113:ALA:O	5:AF:114:PRO:C	2.49	0.50
5:AF:116:VAL:HG21	5:AF:141:VAL:CG2	2.42	0.50
5:AF:30:ARG:HD3	5:AF:30:ARG:N	2.27	0.50
5:AF:46:GLU:O	5:AF:47:LEU:HD13	2.12	0.50
6:AG:104:VAL:O	6:AG:105:VAL:C	2.49	0.50
6:AG:121:VAL:HG11	6:AG:136:PRO:CA	2.41	0.50
6:AG:20:TYR:N	6:AG:20:TYR:CD1	2.78	0.50
7:AH:104:ALA:N	7:AH:107:ARG:HH12	2.10	0.50
7:AH:10:MET:HA	7:AH:32:VAL:HG22	1.93	0.50
9:AJ:115:ARG:O	9:AJ:118:VAL:HB	2.12	0.50
9:AJ:72:ARG:HG3	9:AJ:73:MET:N	2.26	0.50
10:AK:32:LYS:CG	10:AK:33:GLU:N	2.67	0.50
10:AK:9:MET:SD	10:AK:26:VAL:HG11	2.51	0.50
12:AM:28:ARG:HG2	12:AM:33:GLN:HG3	1.94	0.50
13:AN:26:ASN:O	13:AN:27:ASN:CB	2.56	0.50
13:AN:32:ILE:CG2	13:AN:40:ILE:HD11	2.31	0.50
13:AN:42:TRP:HZ3	13:AN:47:VAL:CG1	2.24	0.50
13:AN:17:GLY:C	13:AN:80:VAL:HG22	2.31	0.50
13:AN:85:ARG:HE	13:AN:111:ASP:CB	2.24	0.50
1:AA:1228:C:O3'	15:AP:116:THR:HA	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:16:ASP:CB	15:AP:30:ALA:HB1	2.41	0.50
15:AP:76:ALA:O	15:AP:80:ARG:HG2	2.11	0.50
15:AP:81:LEU:CD2	15:AP:89:GLY:HA2	2.32	0.50
16:AQ:23:ARG:NE	16:AQ:30:ALA:HB2	2.27	0.50
17:AR:12:ILE:HD11	17:AR:31:LEU:HD11	1.92	0.50
18:AS:26:ARG:NE	18:AS:31:LYS:O	2.44	0.50
1:AA:760:G:H22	19:AT:104:LYS:HB3	1.75	0.50
20:AU:39:VAL:HG13	20:AU:42:ARG:HD3	1.92	0.50
20:AU:79:LEU:O	20:AU:79:LEU:HD22	2.12	0.50
21:AV:63:THR:O	21:AV:64:GLU:C	2.50	0.50
48:B1:1:MET:C	48:B1:3:LYS:N	2.64	0.50
49:B2:40:THR:HB	49:B2:43:ILE:HB	1.92	0.50
49:B2:6:VAL:HG11	49:B2:54:VAL:HG13	1.92	0.50
50:B3:10:VAL:HG11	50:B3:41:PRO:CG	2.41	0.50
50:B3:29:PRO:HB2	50:B3:31:ILE:HD12	1.92	0.50
50:B3:5:ILE:CG2	50:B3:60:GLN:OE1	2.57	0.50
50:B3:57:GLU:N	50:B3:61:ARG:HG3	2.26	0.50
50:B3:6:HIS:NE2	50:B3:55:ARG:HB3	2.27	0.50
51:B4:21:SER:C	51:B4:23:HIS:N	2.62	0.50
52:B5:35:GLU:HG3	52:B5:52:VAL:HG22	1.93	0.50
24:BA:2345:G:OP1	52:B5:39:TYR:HA	2.11	0.50
24:BA:1033:U:C5'	55:B8:16:VAL:HG21	2.41	0.50
24:BA:1180:C:C2'	24:BA:1181:C:H6	2.17	0.50
24:BA:1349:A:H4'	24:BA:1350:C:OP2	2.09	0.50
24:BA:149:A:C4	24:BA:150:C:C5	3.00	0.50
24:BA:1525:G:C4	24:BA:1526:G:N7	2.79	0.50
24:BA:699:A:C1'	24:BA:1634:A:N7	2.73	0.50
24:BA:1660:C:N4	24:BA:2001:A:N6	2.59	0.50
24:BA:1815:A:N7	24:BA:1817:G:C2	2.80	0.50
24:BA:1854:A:C2'	24:BA:1855:G:H5'	2.42	0.50
24:BA:195:A:N7	24:BA:197:A:OP1	2.44	0.50
24:BA:2053:G:H5'	28:BE:144:ARG:HA	1.92	0.50
24:BA:2197:U:H2'	24:BA:2224:G:H1	1.76	0.50
24:BA:2320:A:C8	24:BA:2320:A:P	3.05	0.50
24:BA:2356:C:N3	24:BA:2357:U:C4	2.79	0.50
24:BA:2384:G:H3'	24:BA:2386:C:P	2.51	0.50
24:BA:2415:G:H5''	36:BO:61:ARG:CD	2.41	0.50
24:BA:2032:G:C6	24:BA:2454:G:H1'	2.46	0.50
24:BA:2525:G:C2	24:BA:2539:C:C4	2.99	0.50
24:BA:2616:C:C2	24:BA:2617:C:C5	3.00	0.50
24:BA:2647:U:H2'	24:BA:2648:C:C6	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:265:A:C2	24:BA:428:A:N7	2.79	0.50
24:BA:1637:A:C4'	24:BA:2711:A:O2'	2.42	0.50
24:BA:2712(A):A:H5'	24:BA:2713:A:H5''	1.92	0.50
24:BA:2714:G:O6	24:BA:2715:C:N4	2.45	0.50
24:BA:273:G:C4	24:BA:273(A):G:C8	3.00	0.50
24:BA:2789:C:N3	24:BA:2790:A:H2	2.09	0.50
24:BA:295:G:C6	24:BA:296:C:C4	3.00	0.50
24:BA:303:U:H2'	24:BA:304:G:O4'	2.11	0.50
24:BA:295:G:N2	24:BA:344:G:H1'	2.27	0.50
24:BA:530:G:O2'	24:BA:532:A:P	2.70	0.50
24:BA:535:C:O2'	24:BA:536:A:H5'	2.11	0.50
24:BA:603:A:N1	24:BA:625:G:N9	2.60	0.50
24:BA:612:G:O2'	24:BA:617:G:N2	2.44	0.50
24:BA:660:G:H2'	24:BA:661:C:C5	2.46	0.50
24:BA:665:C:C2	24:BA:666:G:N7	2.80	0.50
24:BA:819:A:C5	24:BA:1189:A:N6	2.79	0.50
24:BA:894:C:C2	24:BA:895:U:C5	2.99	0.50
24:BA:908:C:H2'	24:BA:909:A:C5'	2.41	0.50
24:BA:910:A:H2'	24:BA:911:A:O5'	2.12	0.50
24:BA:860:U:O4	24:BA:917:A:C6	2.64	0.50
24:BA:975:G:N2	24:BA:976:C:H5'	2.27	0.50
24:BA:988:A:H62	49:B2:13:ILE:HG13	1.77	0.50
25:BB:45:A:C5	25:BB:46:A:C5	2.99	0.50
25:BB:76:G:H3'	25:BB:76:G:C8	2.46	0.50
25:BB:9:G:C6	25:BB:112:G:C6	3.00	0.50
27:BD:98:VAL:HG12	27:BD:99:ASP:N	2.26	0.50
28:BE:51:PHE:CD1	28:BE:76:ARG:HD3	2.47	0.50
29:BF:171:PRO:HB2	29:BF:172:TRP:CE3	2.44	0.50
15:AP:7:VAL:H	30:BG:114:ILE:CD1	2.24	0.50
30:BG:50:ALA:CB	30:BG:51:ARG:CZ	2.90	0.50
30:BG:51:ARG:HG3	30:BG:51:ARG:NH2	2.26	0.50
30:BG:8:LYS:CD	30:BG:12:TYR:HD2	2.23	0.50
31:BH:149:ARG:O	31:BH:153:LYS:CB	2.59	0.50
31:BH:37:VAL:HG22	31:BH:37:VAL:O	2.11	0.50
31:BH:26:VAL:HG11	31:BH:76:VAL:HA	1.92	0.50
31:BH:85:LYS:HE2	31:BH:142:GLY:HA2	1.93	0.50
35:BN:9:GLU:O	35:BN:82:ASN:CB	2.59	0.50
36:BO:111:ARG:HD2	36:BO:129:ALA:CB	2.31	0.50
36:BO:111:ARG:HG3	36:BO:111:ARG:O	2.11	0.50
24:BA:245:G:H5'	36:BO:63:PRO:O	2.12	0.50
36:BO:7:ARG:CB	36:BO:8:PRO:HD3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:16:ARG:NH2	37:BP:72:LYS:HA	2.26	0.50
39:BR:40:ILE:HG13	39:BR:47:THR:CG2	2.40	0.50
39:BR:69:VAL:HG12	39:BR:70:GLY:N	2.26	0.50
40:BS:111:ARG:CA	40:BS:114:LEU:HD12	2.41	0.50
40:BS:15:VAL:O	40:BS:16:ARG:O	2.29	0.50
41:BT:105:VAL:O	41:BT:108:GLU:OE1	2.29	0.50
41:BT:52:ARG:NH1	41:BT:56:ASP:OD2	2.44	0.50
41:BT:94:ASN:HA	41:BT:97:ASP:OD1	2.11	0.50
42:BU:28:GLU:C	42:BU:30:GLY:N	2.62	0.50
41:BT:47:TYR:OH	42:BU:76:LYS:C	2.50	0.50
45:BX:42:VAL:N	45:BX:61:ILE:CG2	2.73	0.50
46:BY:102:LEU:HD21	46:BY:137:ILE:CD1	2.25	0.50
46:BY:29:TYR:CA	46:BY:34:ASN:HD22	2.23	0.50
46:BY:26:GLY:O	46:BY:36:LYS:HG3	2.11	0.50
24:BA:162:U:H6	24:BA:162:U:OP1	1.94	0.50
1:AA:1171:G:H2'	1:AA:1172:C:C5	2.46	0.50
48:B1:65:GLN:N	48:B1:65:GLN:NE2	2.55	0.50
1:AA:104:G:N3	1:AA:105:G:C8	2.79	0.50
1:AA:1222:G:C2	1:AA:1223:C:N3	2.80	0.50
1:AA:130:A:N6	19:AT:64:PRO:HG2	2.26	0.50
1:AA:1358:U:OP1	16:AQ:35:ARG:HG3	2.12	0.50
1:AA:1386:G:O2'	1:AA:1387:G:O5'	2.29	0.50
1:AA:1475:G:H2'	1:AA:1476:G:C8	2.44	0.50
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.11	0.50
1:AA:1527:C:O2'	1:AA:1529:G:N2	2.39	0.50
1:AA:271:C:C4	1:AA:272:C:C5	3.00	0.50
1:AA:293:G:C2	1:AA:294:U:C6	3.00	0.50
1:AA:307:C:O5'	1:AA:307:C:H6	1.88	0.50
1:AA:380:G:H21	1:AA:382:A:H3'	1.73	0.50
1:AA:410:G:N2	1:AA:429:U:H3	2.10	0.50
1:AA:511:C:O2'	1:AA:512:U:P	2.68	0.50
1:AA:605:U:H2'	1:AA:606:G:H8	1.77	0.50
1:AA:707:C:H2'	1:AA:708:C:O5'	2.12	0.50
1:AA:737:A:O2'	8:AI:72:VAL:CG2	2.60	0.50
1:AA:832:C:C4	1:AA:833:U:C4	3.00	0.50
1:AA:986:A:C4	1:AA:987:G:C8	2.98	0.50
2:AC:58:A:N7	2:AC:61:C:C4	2.80	0.50
5:AF:84:ILE:HB	5:AF:101:LEU:HD22	1.92	0.50
5:AF:150:LYS:CB	5:AF:173:VAL:HG21	2.19	0.50
5:AF:92:ALA:O	5:AF:96:GLY:N	2.41	0.50
6:AG:106:TYR:CD2	6:AG:114:ARG:N	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:135:LEU:CB	6:AG:137:SER:OG	2.60	0.50
6:AG:62:GLN:O	6:AG:66:ARG:HD2	2.10	0.50
7:AH:43:LEU:HD23	7:AH:44:GLY:H	1.73	0.50
7:AH:84:PHE:O	7:AH:84:PHE:CD2	2.64	0.50
9:AJ:121:ALA:O	9:AJ:122:HIS:C	2.50	0.50
9:AJ:74:GLU:CB	9:AJ:91:VAL:HG21	2.42	0.50
10:AK:12:ARG:HG3	10:AK:26:VAL:HG23	1.93	0.50
10:AK:9:MET:CB	10:AK:26:VAL:HG21	2.41	0.50
11:AL:102:LEU:O	11:AL:103:THR:HB	2.10	0.50
11:AL:113:LYS:HD2	11:AL:113:LYS:N	2.26	0.50
11:AL:6:GLY:CA	11:AL:80:GLY:O	2.58	0.50
13:AN:50:TYR:HB3	13:AN:55:LYS:HG2	1.93	0.50
1:AA:362:G:H4'	14:AO:28:LYS:HZ2	1.77	0.50
14:AO:85:ILE:CD1	14:AO:98:TYR:CB	2.82	0.50
15:AP:24:GLY:HA3	15:AP:66:LEU:HB3	1.92	0.50
1:AA:1216:G:OP1	16:AQ:3:ARG:NH2	2.44	0.50
16:AQ:52:GLN:C	16:AQ:53:LEU:HD23	2.32	0.50
17:AR:57:LEU:N	17:AR:57:LEU:HD12	2.26	0.50
17:AR:60:VAL:HA	17:AR:63:ARG:HD3	1.94	0.50
18:AS:15:PRO:HB2	18:AS:17:TYR:HE1	1.76	0.50
18:AS:3:LYS:C	18:AS:4:ILE:HD13	2.31	0.50
19:AT:21:VAL:HG23	19:AT:42:TYR:O	2.12	0.50
8:AI:100:ASN:ND2	20:AU:26:LEU:O	2.45	0.50
20:AU:40:LEU:C	20:AU:42:ARG:N	2.64	0.50
20:AU:62:GLU:O	20:AU:66:LEU:CG	2.56	0.50
49:B2:40:THR:O	49:B2:41:PRO:C	2.47	0.50
50:B3:25:TYR:O	50:B3:26:SER:CB	2.59	0.50
51:B4:43:HIS:O	51:B4:44:THR:CG2	2.60	0.50
52:B5:16:CYS:O	52:B5:17:LYS:C	2.50	0.50
24:BA:1128:A:C4	24:BA:1129:A:C2	2.99	0.50
24:BA:112:U:N3	24:BA:113:G:H1'	2.26	0.50
24:BA:1263:U:O2'	51:B4:10:LYS:CG	2.59	0.50
24:BA:1339:G:H5''	44:BW:16:LYS:CD	2.39	0.50
24:BA:1450:C:H2'	24:BA:1451:C:OP2	2.11	0.50
24:BA:1635:G:C5'	24:BA:1635:G:C8	2.94	0.50
24:BA:1673:U:C2'	24:BA:1673:U:O2	2.58	0.50
24:BA:1730:U:C6	24:BA:1730:U:O5'	2.62	0.50
24:BA:1764:G:H2'	24:BA:1765:C:C6	2.46	0.50
24:BA:1801:G:C4	27:BD:263:ARG:NH2	2.79	0.50
24:BA:1820:U:N1	27:BD:202:LYS:CG	2.72	0.50
24:BA:1860:G:C2	24:BA:1861:G:C8	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1944:U:O2'	24:BA:1955:U:H1'	2.12	0.50
24:BA:1655:A:N7	24:BA:2005:A:H2	2.09	0.50
24:BA:2010:G:C5	24:BA:2011:U:C6	2.99	0.50
24:BA:2037:G:C6	24:BA:2038:G:C6	2.99	0.50
24:BA:2052:G:H5'	28:BE:141:ILE:HG13	1.94	0.50
24:BA:2082:A:C2'	24:BA:2083:G:H8	2.19	0.50
24:BA:2209:C:HO2'	24:BA:2211:G:P	2.35	0.50
24:BA:2320:A:N3	24:BA:2333:A:C2	2.79	0.50
24:BA:2259:G:H5'	24:BA:2427:C:C2'	2.40	0.50
24:BA:199:A:C2	24:BA:2434:A:C2	2.99	0.50
24:BA:247:G:N7	24:BA:249:C:O2	2.45	0.50
24:BA:256:A:H2'	24:BA:257:A:H8	1.74	0.50
24:BA:2679:A:O2'	24:BA:2680:C:H5'	2.11	0.50
24:BA:2701:C:C3'	24:BA:2702:U:H5''	2.16	0.50
24:BA:2700:C:C2	24:BA:2708:G:N2	2.79	0.50
24:BA:270(C):C:C3'	24:BA:270(D):C:H6	2.23	0.50
24:BA:2742:C:N4	24:BA:2763:G:N2	2.60	0.50
24:BA:2846:G:H5'	24:BA:2847:U:P	2.52	0.50
24:BA:2848:G:H22	24:BA:2867:G:H1'	1.77	0.50
24:BA:83:G:OP1	24:BA:296:C:OP1	2.29	0.50
24:BA:365:C:C4	24:BA:366:C:C4	2.99	0.50
24:BA:391:G:C4	24:BA:392:C:C5	2.99	0.50
24:BA:416:C:N4	24:BA:417:C:N4	2.59	0.50
24:BA:506:G:C2'	24:BA:507:A:OP2	2.59	0.50
24:BA:511:U:OP2	24:BA:512:G:C5	2.65	0.50
24:BA:547:A:C8	24:BA:548:A:N7	2.80	0.50
24:BA:650:C:H2'	24:BA:651:G:C5'	2.41	0.50
24:BA:66:C:C2'	24:BA:67:U:O5'	2.59	0.50
24:BA:784:A:OP1	24:BA:2588:G:C5'	2.59	0.50
24:BA:892:G:C4	24:BA:893:C:C5	2.99	0.50
25:BB:49:C:OP1	39:BR:97:ARG:HB2	2.12	0.50
25:BB:96:G:N3	25:BB:97:G:C8	2.79	0.50
27:BD:258:LYS:HB2	27:BD:264:LYS:HZ2	1.76	0.50
27:BD:69:ARG:C	27:BD:71:ASP:H	2.14	0.50
24:BA:2820:A:C2	28:BE:109:LYS:HE2	2.47	0.50
28:BE:4:ILE:CG2	28:BE:30:PRO:HB3	2.39	0.50
28:BE:44:TYR:HD2	28:BE:45:THR:N	2.04	0.50
28:BE:33:VAL:HG11	28:BE:77:ILE:HD12	1.92	0.50
29:BF:131:GLY:CA	29:BF:138:GLU:CG	2.73	0.50
29:BF:99:TYR:O	29:BF:100:THR:C	2.50	0.50
30:BG:128:ARG:O	30:BG:129:GLY:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:130:ASN:O	30:BG:159:VAL:CG2	2.54	0.50
30:BG:139:LEU:CG	30:BG:142:PRO:HB3	2.41	0.50
30:BG:167:GLU:O	30:BG:170:ARG:CB	2.58	0.50
30:BG:57:ALA:O	30:BG:58:GLN:C	2.49	0.50
31:BH:121:ILE:CD1	31:BH:123:PHE:HE1	2.22	0.50
31:BH:126:PRO:CG	31:BH:132:ARG:HH22	2.25	0.50
31:BH:42:ARG:CA	31:BH:42:ARG:NE	2.65	0.50
34:BM:36:GLY:HA2	34:BM:49:GLY:N	2.27	0.50
34:BM:70:LYS:HD2	34:BM:86:PRO:HG3	1.92	0.50
35:BN:2:ILE:C	35:BN:3:GLN:NE2	2.65	0.50
36:BO:15:ARG:NH1	36:BO:16:ARG:H	2.07	0.50
37:BP:45:GLN:HA	37:BP:48:GLU:CG	2.37	0.50
37:BP:69:PHE:CE1	37:BP:70:PRO:HD2	2.45	0.50
38:BQ:14:SER:HA	38:BQ:17:ARG:HE	1.72	0.50
38:BQ:96:ARG:HG2	38:BQ:98:LEU:HD11	1.92	0.50
40:BS:76:PHE:CE2	40:BS:78:LEU:CD1	2.93	0.50
41:BT:17:ILE:HA	41:BT:20:LEU:CD2	2.41	0.50
42:BU:51:VAL:O	42:BU:52:VAL:C	2.48	0.50
43:BV:43:GLY:O	43:BV:44:ALA:C	2.50	0.50
43:BV:87:PRO:O	43:BV:87:PRO:HG2	2.11	0.50
45:BX:15:VAL:HG12	45:BX:16:ALA:H	1.77	0.50
45:BX:19:LYS:HB3	45:BX:21:LYS:CG	2.42	0.50
45:BX:2:ARG:C	45:BX:4:LYS:N	2.63	0.50
46:BY:120:ILE:N	46:BY:120:ILE:HD12	2.22	0.50
46:BY:55:HIS:NE2	46:BY:124:ILE:HD13	2.26	0.50
46:BY:95:PRO:HB2	46:BY:131:ARG:N	2.27	0.50
47:BZ:21:LEU:HD11	47:BZ:40:GLN:N	2.27	0.50
32:BK:81:VAL:HG23	32:BK:145:VAL:N	2.27	0.50
32:BK:86:THR:O	32:BK:87:LYS:C	2.50	0.50
24:BA:2137:C:H2'	24:BA:2138:C:C6	2.46	0.50
26:BC:173:ALA:HB3	26:BC:192:PHE:CE2	2.46	0.50
26:BC:47:LEU:HD12	26:BC:208:PHE:CZ	2.46	0.50
26:BC:22:ILE:CD1	26:BC:190:ARG:HD3	2.40	0.50
24:BA:2106:G:C2'	24:BA:2107:C:H5'	2.41	0.50
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.12	0.50
24:BA:2340:G:C2	24:BA:2341:G:C8	2.98	0.50
26:BC:20:TYR:CE1	26:BC:222:VAL:CG2	2.95	0.50
1:AA:1452:C:H5'	1:AA:1453:G:C4	2.47	0.50
1:AA:1079:G:N3	1:AA:1080:A:H2	2.09	0.50
1:AA:1094:G:H2'	1:AA:1108:G:N2	2.24	0.50
1:AA:1160:G:N3	1:AA:1160:G:C2'	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1180:A:C2'	1:AA:1181:G:C5'	2.81	0.50
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.11	0.50
1:AA:128:G:N2	1:AA:234:C:H1'	2.26	0.50
1:AA:134:A:C5	1:AA:135:C:C4	2.99	0.50
1:AA:136:C:H4'	18:AS:65:GLN:OE1	2.11	0.50
1:AA:1440:C:C2	1:AA:1462:G:N2	2.80	0.50
1:AA:1418:A:C2	1:AA:1483:A:C2	2.98	0.50
1:AA:1511:G:H2'	1:AA:1512:U:C5'	2.40	0.50
1:AA:251:G:C5'	1:AA:252:U:OP1	2.59	0.50
1:AA:335:C:H4'	1:AA:1434:A:H4'	1.93	0.50
1:AA:32:A:H61	1:AA:553:A:N6	2.08	0.50
1:AA:568:G:C6	1:AA:569:C:N4	2.78	0.50
1:AA:57:G:C6	1:AA:58:C:C4	3.00	0.50
1:AA:623:C:C2	1:AA:624:C:C6	2.99	0.50
1:AA:624:C:O2	1:AA:625:G:C8	2.65	0.50
1:AA:721:G:OP1	1:AA:721:G:H8	1.94	0.50
1:AA:755:G:OP1	17:AR:66:LEU:HD13	2.12	0.50
1:AA:877:C:OP1	10:AK:88:LYS:HE3	2.11	0.50
1:AA:950:U:H3'	15:AP:102:ARG:NH2	2.26	0.50
2:AC:16:C:O3'	2:AC:18:G:OP2	2.30	0.50
2:AC:39:C:H2'	2:AC:40:C:C5	2.47	0.50
4:AE:115:LEU:HD23	4:AE:149:LEU:CD1	2.39	0.50
4:AE:218:ALA:O	4:AE:221:LEU:N	2.44	0.50
4:AE:23:ARG:NH1	4:AE:24:TRP:O	2.44	0.50
4:AE:36:ARG:NE	4:AE:36:ARG:HA	2.26	0.50
5:AF:87:LEU:HB2	5:AF:101:LEU:CD1	2.42	0.50
5:AF:12:LEU:CD2	16:AQ:57:ARG:HD2	2.41	0.50
5:AF:7:PRO:HG3	5:AF:184:TYR:CD1	2.46	0.50
6:AG:39:PRO:HB2	6:AG:40:PRO:CD	2.42	0.50
6:AG:94:LEU:HD23	6:AG:97:LEU:CD1	2.41	0.50
8:AI:12:PRO:CB	8:AI:57:GLN:NE2	2.74	0.50
8:AI:4:TYR:OH	8:AI:69:GLU:HA	2.12	0.50
9:AJ:106:GLN:N	9:AJ:106:GLN:HE21	2.09	0.50
9:AJ:86:GLN:CG	9:AJ:148:ASN:ND2	2.74	0.50
10:AK:104:ARG:C	10:AK:106:GLY:N	2.65	0.50
10:AK:6:ILE:HD11	10:AK:10:LEU:HD21	1.92	0.50
14:AO:41:ARG:CB	14:AO:41:ARG:CZ	2.90	0.50
15:AP:27:LYS:CD	15:AP:31:LYS:HZ3	2.24	0.50
15:AP:9:ILE:HD12	15:AP:9:ILE:H	1.76	0.50
16:AQ:26:ARG:O	16:AQ:28:GLY:N	2.45	0.50
17:AR:54:ARG:CA	17:AR:57:LEU:HD22	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:75:PRO:HA	17:AR:78:TYR:CB	2.42	0.50
18:AS:42:ARG:C	18:AS:43:LYS:CD	2.77	0.50
20:AU:60:GLY:O	20:AU:64:ARG:HG3	2.12	0.50
21:AV:32:LYS:HB2	21:AV:57:HIS:CE1	2.46	0.50
21:AV:5:LEU:O	21:AV:6:LYS:HB2	2.10	0.50
22:AW:57:ARG:C	22:AW:59:ALA:N	2.61	0.50
23:AX:5:ASP:O	23:AX:7:ARG:N	2.45	0.50
48:B1:57:THR:O	48:B1:60:ASN:HB3	2.11	0.50
50:B3:45:GLY:HA2	50:B3:54:GLY:HA3	1.94	0.50
24:BA:1263:U:O2'	51:B4:10:LYS:HG2	2.11	0.50
51:B4:11:THR:OG1	51:B4:15:ARG:N	2.44	0.50
52:B5:29:ASN:HD22	52:B5:29:ASN:H	1.59	0.50
53:B6:5:TRP:CZ2	53:B6:7:PRO:HB3	2.47	0.50
54:B7:51:ALA:C	54:B7:53:PRO:HD2	2.32	0.50
54:B7:55:ALA:N	54:B7:56:GLU:OE2	2.44	0.50
55:B8:11:CYS:N	55:B8:14:CYS:SG	2.81	0.50
55:B8:19:ARG:HD2	55:B8:24:TYR:HB2	1.91	0.50
24:BA:1009:A:N3	24:BA:1153:C:O2'	2.39	0.50
24:BA:1135:C:O2'	24:BA:1136:G:H5'	2.11	0.50
24:BA:1014:U:C2	24:BA:1149:G:N2	2.80	0.50
24:BA:1201:C:H42	24:BA:1241:A:N6	2.01	0.50
24:BA:1305:C:O2'	24:BA:1306:C:C5'	2.59	0.50
24:BA:1381:G:C5	24:BA:1382:G:C5	2.99	0.50
24:BA:1633:G:C8	24:BA:1635:G:O6	2.64	0.50
24:BA:1743:G:H3'	24:BA:1746:G:C8	2.43	0.50
24:BA:1779:U:C3'	24:BA:1779:U:C6	2.94	0.50
24:BA:1853:A:C5	24:BA:1854:A:N7	2.80	0.50
24:BA:1917:U:H3'	24:BA:1917:U:H6	1.69	0.50
24:BA:1834:U:C1'	24:BA:1969:A:C2	2.87	0.50
24:BA:1975:G:H2'	24:BA:1976:U:C5'	2.42	0.50
24:BA:2297:C:H2'	24:BA:2298:A:H8	1.77	0.50
24:BA:2306:C:H5	24:BA:2311:A:C6	2.29	0.50
24:BA:2321:G:N2	24:BA:2322:A:C1'	2.74	0.50
24:BA:2349:G:H2'	24:BA:2350:C:H5''	1.93	0.50
24:BA:2356:C:H2'	24:BA:2357:U:O5'	2.12	0.50
24:BA:2474:C:H2'	24:BA:2475:C:O5'	2.11	0.50
24:BA:2712(A):A:H8	24:BA:2712(A):A:H3'	1.77	0.50
24:BA:2885:C:N3	24:BA:2886:G:H1'	2.25	0.50
24:BA:331:A:C8	24:BA:1209:G:N2	2.79	0.50
24:BA:270:A:N1	24:BA:370:G:C4	2.80	0.50
24:BA:386:G:H4'	24:BA:387:U:H5	1.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:397:G:O2'	24:BA:2231:C:HI'	2.10	0.50
24:BA:422:A:C2	24:BA:423:A:C4	3.00	0.50
24:BA:479:A:O2'	24:BA:480:A:P	2.70	0.50
24:BA:523:C:C2'	24:BA:524:U:C5'	2.89	0.50
24:BA:14:A:N1	24:BA:526:A:C6	2.79	0.50
24:BA:572:A:C6	24:BA:573:G:N2	2.79	0.50
24:BA:725:G:C2	24:BA:726:G:N2	2.80	0.50
24:BA:75:G:C6	24:BA:76:C:N4	2.80	0.50
24:BA:962:G:N3	24:BA:963:U:C6	2.80	0.50
24:BA:988:A:OP1	49:B2:10:LYS:HG2	2.11	0.50
27:BD:152:GLY:O	27:BD:153:ALA:O	2.28	0.50
27:BD:201:HIS:HD2	27:BD:202:LYS:HE2	1.76	0.50
24:BA:2224:G:H5''	27:BD:262:ARG:CZ	2.42	0.50
27:BD:45:ASN:C	27:BD:46:GLN:HG3	2.31	0.50
27:BD:7:LYS:CG	27:BD:25:THR:HB	2.41	0.50
27:BD:92:ILE:HD11	27:BD:94:LEU:HD23	1.93	0.50
28:BE:179:GLU:O	28:BE:181:LEU:CG	2.60	0.50
28:BE:104:VAL:HG21	28:BE:198:VAL:HG13	1.93	0.50
28:BE:5:LEU:HD22	28:BE:196:VAL:HG23	1.94	0.50
28:BE:91:VAL:CG2	28:BE:93:VAL:HG22	2.41	0.50
29:BF:160:ASN:HB2	29:BF:163:VAL:CG2	2.42	0.50
29:BF:184:TYR:O	29:BF:185:ASP:C	2.49	0.50
29:BF:155:LEU:HD12	29:BF:189:THR:OG1	2.12	0.50
29:BF:121:GLY:CA	29:BF:191:ARG:HE	2.25	0.50
29:BF:51:THR:OG1	29:BF:52:LYS:N	2.44	0.50
29:BF:64:ILE:HD13	29:BF:64:ILE:O	2.11	0.50
29:BF:8:GLN:O	29:BF:9:ILE:HD12	2.11	0.50
30:BG:107:LEU:HD13	30:BG:111:LEU:HD13	1.93	0.50
30:BG:16:ARG:O	30:BG:20:ILE:CB	2.60	0.50
30:BG:74:LYS:HG2	30:BG:87:PRO:HG3	1.94	0.50
31:BH:90:LYS:NZ	31:BH:90:LYS:CB	2.71	0.50
32:BK:27:ARG:HG2	32:BK:28:ASN:ND2	2.26	0.50
32:BK:4:ILE:HD11	32:BK:39:ALA:CA	2.42	0.50
33:BL:23:VAL:O	33:BL:34:ILE:HG12	2.11	0.50
34:BM:13:TRP:N	34:BM:138:LEU:CD1	2.73	0.50
36:BO:112:LEU:O	36:BO:114:ILE:CD1	2.59	0.50
36:BO:123:LEU:CB	36:BO:138:LEU:CB	2.89	0.50
37:BP:6:ARG:CG	37:BP:7:MET:N	2.74	0.50
38:BQ:39:PRO:O	38:BQ:42:LYS:N	2.45	0.50
40:BS:55:ASN:ND2	40:BS:55:ASN:N	2.56	0.50
35:BN:122:LEU:CA	40:BS:71:GLY:HA2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:31:SER:CB	41:BT:35:ALA:N	2.74	0.50
41:BT:48:ALA:C	41:BT:51:LYS:HB2	2.32	0.50
41:BT:65:ILE:CG2	41:BT:76:TYR:CE1	2.93	0.50
42:BU:6:LYS:HD3	42:BU:10:LYS:HB3	1.93	0.50
42:BU:1:MET:H2	42:BU:44:LYS:CA	2.23	0.50
41:BT:94:ASN:HD21	42:BU:6:LYS:HE3	1.76	0.50
42:BU:83:ARG:CG	42:BU:84:LYS:N	2.71	0.50
44:BW:15:GLU:O	44:BW:18:TYR:N	2.41	0.50
46:BY:117:LEU:O	46:BY:118:GLN:NE2	2.44	0.50
46:BY:153:SER:C	46:BY:155:LEU:N	2.65	0.50
46:BY:16:SER:HA	46:BY:19:ARG:HH11	1.77	0.50
46:BY:150:LEU:O	46:BY:170:THR:HG22	2.11	0.50
24:BA:2353:G:H1'	47:BZ:34:GLY:HA3	1.93	0.50
3:AD:44:G:H8	3:AD:44:G:OP2	1.95	0.50
3:AD:22:G:N7	3:AD:46:G:N2	2.59	0.50
24:BA:2127:G:C8	24:BA:2162:G:C2	2.99	0.50
24:BA:2168:G:H2'	24:BA:2169:A:O5'	2.11	0.50
26:BC:50:ASP:CG	26:BC:51:PRO:HD2	2.32	0.50
26:BC:56:GLN:HA	26:BC:201:PRO:CB	2.41	0.50
26:BC:68:LEU:HD23	26:BC:69:GLY:CA	2.41	0.50
26:BC:96:GLY:O	26:BC:100:ILE:CG1	2.59	0.50
1:AA:1005:A:C6	1:AA:1026:G:N2	2.80	0.50
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.47	0.50
1:AA:1169:A:C2	1:AA:1170:A:C2	2.99	0.50
24:BA:2247:A:O5'	24:BA:2247:A:H8	1.94	0.50
24:BA:131:G:C2	24:BA:132:G:N7	2.79	0.50
1:AA:1490:C:OP2	1:AA:1490:C:H6	1.95	0.50
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.41	0.50
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.45	0.50
1:AA:1262:C:O5'	1:AA:1262:C:H6	1.94	0.50
1:AA:1379:G:C5	1:AA:1380:U:C5	3.00	0.50
1:AA:145:G:H8	1:AA:145:G:H5''	1.77	0.50
1:AA:148:G:H1	1:AA:174:C:N4	2.09	0.50
1:AA:404:U:H5'	6:AG:122:ARG:NH1	2.26	0.50
1:AA:563:A:C5	1:AA:567:G:H1'	2.46	0.50
1:AA:729:A:N1	1:AA:730:G:C4	2.80	0.50
1:AA:75:C:C2	1:AA:96:G:N2	2.80	0.50
1:AA:8:A:H3'	1:AA:8:A:P	2.50	0.50
1:AA:89:U:H2'	1:AA:90:C:O4'	2.11	0.50
1:AA:986:A:H4'	21:AV:55:LYS:CD	2.41	0.50
2:AC:4:G:C4	2:AC:5:G:C8	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:18:G:C4	2:AC:58:A:N3	2.80	0.50
5:AF:12:LEU:HG	5:AF:18:TRP:CZ3	2.47	0.50
5:AF:173:VAL:O	5:AF:175:LEU:N	2.43	0.50
5:AF:156:ARG:O	5:AF:193:TYR:HE1	1.94	0.50
6:AG:119:GLN:O	6:AG:123:HIS:HD2	1.95	0.50
6:AG:62:GLN:CA	6:AG:62:GLN:HE21	2.18	0.50
7:AH:111:GLU:HG3	7:AH:112:LEU:N	2.26	0.50
10:AK:126:LYS:HZ2	10:AK:127:LEU:HA	1.77	0.50
10:AK:6:ILE:HD11	10:AK:85:ARG:CD	2.41	0.50
12:AM:40:LEU:HD12	12:AM:71:LEU:HD21	1.94	0.50
12:AM:5:ARG:NE	12:AM:73:ASP:OD1	2.44	0.50
17:AR:33:THR:HG22	17:AR:37:ASN:HD21	1.76	0.50
17:AR:33:THR:HG22	17:AR:37:ASN:ND2	2.27	0.50
18:AS:6:LEU:N	18:AS:6:LEU:HD13	2.25	0.50
18:AS:8:ARG:NH2	18:AS:11:SER:O	2.45	0.50
1:AA:280:C:N3	19:AT:39:SER:HB3	2.26	0.50
19:AT:56:VAL:C	19:AT:57:VAL:CG1	2.79	0.50
19:AT:70:ARG:O	19:AT:71:PHE:HD1	1.95	0.50
1:AA:1314:C:C3'	21:AV:6:LYS:HD3	2.29	0.50
50:B3:66:SER:CA	50:B3:69:LYS:HD2	2.36	0.50
51:B4:19:ARG:O	51:B4:21:SER:N	2.44	0.50
52:B5:15:GLU:HB2	52:B5:21:TYR:HB2	1.93	0.50
53:B6:21:ARG:HB3	53:B6:31:LEU:CD1	2.29	0.50
55:B8:36:GLN:O	55:B8:36:GLN:HG3	2.11	0.50
24:BA:1142:U:C3'	24:BA:1142(A):A:C8	2.89	0.50
24:BA:1344:G:C2	24:BA:1404:C:C2	2.99	0.50
24:BA:1471:A:N6	24:BA:1519:G:N2	2.50	0.50
24:BA:1537:C:N4	24:BA:1538:G:H1'	2.27	0.50
24:BA:1599:C:P	44:BW:36:LYS:NZ	2.85	0.50
24:BA:1613:G:H1'	53:B6:3:ARG:NH2	2.25	0.50
24:BA:1691:C:C2'	24:BA:1692:U:C5'	2.89	0.50
24:BA:181:A:C2	24:BA:182:A:C4	3.00	0.50
24:BA:1851:U:H2'	24:BA:1852:C:C5	2.45	0.50
24:BA:1861:G:N2	24:BA:1862:G:C4	2.80	0.50
24:BA:193:U:O4	24:BA:202:U:O2	2.29	0.50
24:BA:1970:A:C5	24:BA:1972:A:C5	3.00	0.50
24:BA:214:G:C2'	24:BA:215:G:O4'	2.60	0.50
24:BA:2238:G:O2'	24:BA:2239:G:C5'	2.52	0.50
24:BA:2290:G:H5'	24:BA:2290:G:H8	1.76	0.50
24:BA:2305:A:H3'	24:BA:2306:C:C5'	2.31	0.50
24:BA:2319:G:O2'	24:BA:2320:A:P	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2431:U:C3'	24:BA:2432:A:H5''	2.40	0.50
24:BA:2077:A:N3	24:BA:2435:A:C8	2.80	0.50
24:BA:2470:G:O2'	24:BA:2471:C:H5'	2.12	0.50
24:BA:2531:A:N3	24:BA:2531:A:H2'	2.25	0.50
24:BA:270(Z):U:O4	24:BA:271(C):U:H1'	2.11	0.50
24:BA:222:A:OP2	24:BA:271(B):G:C6	2.65	0.50
24:BA:2723:C:H5'	38:BQ:4:LEU:HB2	1.94	0.50
24:BA:2541:A:H2	24:BA:2765:A:N6	2.10	0.50
24:BA:2774:C:H5'	24:BA:2775:A:OP2	2.11	0.50
24:BA:279:C:OP2	24:BA:279:C:C6	2.65	0.50
24:BA:280:C:C6	24:BA:283:A:N7	2.79	0.50
24:BA:362:U:C5'	24:BA:363:G:OP2	2.60	0.50
24:BA:461:C:N4	24:BA:469:G:N2	2.59	0.50
24:BA:715:G:H2'	24:BA:716:A:C5'	2.42	0.50
24:BA:770:G:C5'	53:B6:10:ARG:HH11	2.25	0.50
24:BA:808:G:C2'	24:BA:809:G:O4'	2.58	0.50
24:BA:819:A:N7	24:BA:1189:A:N6	2.59	0.50
24:BA:861:A:C2	25:BB:79:C:O2'	2.59	0.50
24:BA:60:G:O6	24:BA:88:G:O6	2.28	0.50
24:BA:972:G:OP1	24:BA:974(A):C:H6	1.95	0.50
25:BB:73:A:N7	25:BB:104:A:C6	2.79	0.50
25:BB:46:A:H3'	25:BB:46:A:OP2	2.12	0.50
25:BB:50:G:C2'	25:BB:50:G:N3	2.72	0.50
27:BD:161:THR:O	27:BD:161:THR:OG1	2.24	0.50
27:BD:5:LYS:O	27:BD:27:THR:HG23	2.11	0.50
28:BE:200:GLU:HB3	28:BE:202:LYS:HZ1	1.75	0.50
29:BF:156:LEU:O	29:BF:176:LEU:C	2.50	0.50
29:BF:74:ARG:NH2	29:BF:76:GLY:N	2.60	0.50
30:BG:115:ARG:HG3	30:BG:115:ARG:HH21	1.76	0.50
30:BG:4:ASP:HA	30:BG:7:LEU:HB2	1.93	0.50
30:BG:79:ASN:H	30:BG:82:LEU:HG	1.76	0.50
31:BH:102:ALA:C	31:BH:123:PHE:HE2	2.15	0.50
31:BH:128:PRO:HA	31:BH:131:VAL:HG21	1.93	0.50
32:BK:42:SER:OG	32:BK:43:ASN:ND2	2.45	0.50
33:BL:131:ALA:C	33:BL:136:VAL:O	2.49	0.50
34:BM:34:LEU:CA	34:BM:49:GLY:HA2	2.41	0.50
35:BN:66:LYS:C	35:BN:67:LYS:CG	2.79	0.50
37:BP:69:PHE:CD1	37:BP:70:PRO:CD	2.94	0.50
37:BP:72:LYS:O	37:BP:93:TYR:HA	2.11	0.50
38:BQ:26:LYS:HG2	38:BQ:70:LEU:HD13	1.94	0.50
38:BQ:37:THR:O	38:BQ:40:LYS:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:111:ARG:O	38:BQ:4:LEU:HD11	2.11	0.50
39:BR:52:SER:HG	39:BR:73:LEU:HD11	1.76	0.50
40:BS:26:ASP:OD2	40:BS:27:THR:N	2.45	0.50
40:BS:4:GLY:HA2	40:BS:8:LYS:HE3	1.93	0.50
41:BT:110:VAL:HG12	41:BT:111:GLU:N	2.27	0.50
24:BA:515:A:H5''	41:BT:32:PHE:HZ	1.75	0.50
24:BA:995:C:H1'	41:BT:57:PHE:CE2	2.47	0.50
42:BU:20:LEU:C	42:BU:93:GLU:OE2	2.49	0.50
24:BA:1162:G:H5''	42:BU:23:GLU:O	2.12	0.50
42:BU:79:VAL:CG1	42:BU:81:TYR:CD1	2.89	0.50
42:BU:75:PHE:O	42:BU:86:GLY:CA	2.60	0.50
24:BA:993:G:C1'	42:BU:91:TYR:CE2	2.92	0.50
44:BW:48:LYS:O	44:BW:88:LYS:HG3	2.11	0.50
45:BX:46:LYS:HZ3	45:BX:47:LYS:CG	2.23	0.50
46:BY:44:PHE:C	46:BY:48:PHE:CD1	2.85	0.50
3:AD:19:G:H2'	3:AD:57:G:O2'	2.12	0.50
24:BA:2134:A:H8	24:BA:2155:G:O6	1.95	0.50
26:BC:103:ILE:HG22	26:BC:130:ILE:HG21	1.93	0.50
26:BC:103:ILE:HD11	26:BC:110:PHE:HE2	1.76	0.50
24:BA:2124:G:H21	26:BC:217:THR:C	2.14	0.50
26:BC:86:ALA:HB1	26:BC:153:ILE:HD11	1.93	0.50
27:BD:273:ARG:CZ	27:BD:273:ARG:C	2.80	0.50
1:AA:1008:C:C2	1:AA:1009:G:C8	2.99	0.50
45:BX:108:THR:O	45:BX:109:GLU:CD	2.50	0.50
25:BB:110:G:C2'	25:BB:111:U:O5'	2.59	0.50
24:BA:276:A:OP2	24:BA:276:A:C4'	2.60	0.50
24:BA:1484:G:H2'	24:BA:1485:G:O4'	2.12	0.50
1:AA:1047:G:H2'	1:AA:1048:G:C5'	2.41	0.50
1:AA:1077:G:N3	1:AA:1081:G:C2	2.79	0.50
1:AA:1156:G:H1'	1:AA:1179:A:N6	2.18	0.50
1:AA:1192:C:N4	1:AA:1193:G:N7	2.59	0.50
1:AA:1263:C:H2'	1:AA:1264:C:C5	2.43	0.50
1:AA:1269:A:H2'	1:AA:1270:C:O4'	2.12	0.50
1:AA:1357:A:C6	1:AA:1358:U:C4	2.99	0.50
1:AA:1477:C:C2	1:AA:1478:C:C5	2.99	0.50
1:AA:1495:U:O2	1:AA:1495:U:C2'	2.59	0.50
1:AA:1526:G:C4	1:AA:1527:C:C5	2.99	0.50
1:AA:819:A:C2	1:AA:1529:G:O6	2.64	0.50
1:AA:198:G:H21	1:AA:199:G:C1'	2.25	0.50
1:AA:410:G:C2	1:AA:429:U:N3	2.80	0.50
1:AA:453:A:C6	1:AA:454:C:C4	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:540:G:N2	6:AG:42:GLN:NE2	2.56	0.50
1:AA:545:C:O2'	1:AA:546:G:C5'	2.58	0.50
1:AA:627:G:H2'	1:AA:628:G:H8	1.76	0.50
1:AA:68:G:C5'	1:AA:171:A:C1'	2.80	0.50
1:AA:709:G:HO2'	1:AA:710:G:H5'	1.77	0.50
1:AA:738:C:H4'	8:AI:70:ASP:HA	1.92	0.50
1:AA:908:A:C2	1:AA:909:A:N7	2.80	0.50
2:AC:39:C:C2	2:AC:40:C:C5	3.00	0.50
2:AC:72:A:H2'	2:AC:73:A:N7	2.25	0.50
4:AE:105:PHE:CD1	4:AE:108:ILE:HB	2.46	0.50
4:AE:25:ASN:ND2	4:AE:27:LYS:N	2.57	0.50
4:AE:53:ARG:HA	4:AE:56:ARG:HH12	1.77	0.50
5:AF:159:GLY:H	5:AF:193:TYR:HE1	1.60	0.50
6:AG:172:PRO:HG3	6:AG:193:ASP:HB3	1.94	0.50
6:AG:193:ASP:C	6:AG:194:LEU:HD22	2.31	0.50
8:AI:27:GLN:O	8:AI:30:LEU:HD12	2.11	0.50
8:AI:2:ARG:NE	8:AI:69:GLU:HG2	2.27	0.50
10:AK:116:LYS:HG2	10:AK:129:VAL:HG11	1.93	0.50
10:AK:97:VAL:HG13	10:AK:98:LYS:NZ	2.27	0.50
11:AL:119:ALA:O	11:AL:120:ARG:CG	2.58	0.50
13:AN:25:TYR:HE2	13:AN:87:THR:CB	2.25	0.50
14:AO:32:PHE:HB3	14:AO:85:ILE:O	2.12	0.50
16:AQ:36:PHE:CE2	16:AQ:37:PHE:HE2	2.30	0.50
18:AS:26:ARG:HH21	18:AS:31:LYS:CE	2.21	0.50
18:AS:75:ARG:CG	18:AS:80:PHE:HB3	2.38	0.50
8:AI:97:PHE:O	20:AU:30:ASP:HA	2.11	0.50
1:AA:1320:C:H42	21:AV:36:ARG:HH12	1.60	0.50
22:AW:29:LYS:O	22:AW:32:ALA:HB3	2.12	0.50
49:B2:6:VAL:HG12	49:B2:7:LYS:N	2.27	0.50
50:B3:7:PRO:CD	50:B3:56:VAL:CG1	2.80	0.50
51:B4:35:GLU:HG2	51:B4:49:CYS:HB3	1.94	0.50
52:B5:6:ARG:HA	52:B5:10:LEU:CD2	2.42	0.50
53:B6:20:ALA:HA	53:B6:23:ARG:CZ	2.41	0.50
54:B7:51:ALA:O	54:B7:54:GLU:CD	2.49	0.50
24:BA:83:G:C6	24:BA:102:G:H1'	2.47	0.50
24:BA:1028:A:N6	24:BA:1126:A:C8	2.79	0.50
24:BA:1174:A:N3	24:BA:1175:U:C6	2.80	0.50
24:BA:1257:C:N4	24:BA:1258:C:N4	2.59	0.50
24:BA:1297:C:O2'	24:BA:1302:A:N6	2.45	0.50
24:BA:1343:G:C6	24:BA:1344:G:N7	2.80	0.50
24:BA:1419:A:OP2	24:BA:1419:A:O4'	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1428:C:O2'	24:BA:1429:G:P	2.69	0.50
24:BA:1453:A:C8	24:BA:1454:U:H6	2.30	0.50
24:BA:1473:G:H2'	24:BA:1474:C:C6	2.45	0.50
24:BA:1516:U:C2'	24:BA:1517:G:H8	2.24	0.50
24:BA:1570:A:C2	24:BA:1571:A:C8	3.00	0.50
24:BA:1591:G:C6	24:BA:1592:C:C4	3.00	0.50
24:BA:1623:G:H5''	24:BA:1623:G:C8	2.47	0.50
24:BA:1725:G:N2	24:BA:1726:G:N9	2.60	0.50
24:BA:1752:A:N6	24:BA:1781:C:H1'	2.25	0.50
24:BA:1871:A:O2'	24:BA:1872:A:H5'	2.12	0.50
24:BA:1935:G:C3'	24:BA:1937:A:C2	2.95	0.50
24:BA:2048:G:C2'	24:BA:2049:G:O5'	2.60	0.50
24:BA:219:G:O2'	24:BA:220:G:H5'	2.10	0.50
24:BA:226:G:N2	24:BA:228:A:N6	2.60	0.50
24:BA:2366:A:OP1	47:BZ:55:ARG:NH2	2.45	0.50
24:BA:2416:C:C2	24:BA:2417:C:C6	3.00	0.50
24:BA:2416:C:O2'	24:BA:2417:C:O5'	2.27	0.50
24:BA:2488:A:N6	24:BA:2489:G:O6	2.44	0.50
24:BA:2495:G:C6	24:BA:2496:C:C4	2.99	0.50
24:BA:251:A:H2'	24:BA:252:G:C4'	2.41	0.50
24:BA:2646:C:H2'	24:BA:2647:U:O5'	2.12	0.50
24:BA:2833:G:N3	24:BA:2833:G:C2'	2.74	0.50
24:BA:2849:U:N3	24:BA:2867:G:H1'	2.26	0.50
24:BA:106:C:H1'	24:BA:294:A:H4'	1.93	0.50
24:BA:296:C:C2'	24:BA:297:C:C6	2.82	0.50
24:BA:329:G:C4'	24:BA:330:A:OP2	2.58	0.50
24:BA:388:G:HO2'	24:BA:390:A:H62	1.55	0.50
24:BA:508:G:C5'	24:BA:509:C:OP1	2.60	0.50
24:BA:541:C:C2'	24:BA:542:C:H6	2.23	0.50
24:BA:55:G:C4	24:BA:56:A:N7	2.80	0.50
24:BA:668:G:C5	24:BA:670:A:N7	2.79	0.50
24:BA:673:C:C2'	24:BA:674:G:C5'	2.82	0.50
24:BA:691:C:H2'	24:BA:692:C:H6	1.77	0.50
24:BA:879:G:N2	24:BA:880:G:C5	2.80	0.50
25:BB:75:G:C5	25:BB:76:G:N3	2.80	0.50
25:BB:87:G:N2	25:BB:90:C:N3	2.58	0.50
28:BE:52:LEU:HB2	28:BE:73:GLU:HB3	1.92	0.50
30:BG:105:LYS:O	30:BG:109:VAL:CG2	2.55	0.50
30:BG:137:GLU:CG	30:BG:138:GLN:N	2.75	0.50
30:BG:92:VAL:CG1	30:BG:94:LEU:CD2	2.88	0.50
31:BH:126:PRO:HG3	31:BH:132:ARG:HH12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:9:ILE:CG1	31:BH:69:ARG:HH12	2.25	0.50
33:BL:44:ALA:O	33:BL:46:ALA:N	2.44	0.50
33:BL:55:VAL:HG13	33:BL:68:VAL:C	2.32	0.50
34:BM:127:ASP:O	34:BM:128:HIS:C	2.49	0.50
34:BM:35:ARG:NE	34:BM:48:MET:SD	2.85	0.50
34:BM:37:LYS:HA	34:BM:42:TRP:HB3	1.94	0.50
35:BN:104:ARG:H	35:BN:107:ARG:NH1	2.09	0.50
35:BN:68:GLU:CB	35:BN:76:ALA:O	2.59	0.50
36:BO:10:PRO:CB	36:BO:14:LYS:HD3	2.42	0.50
36:BO:128:HIS:HB3	36:BO:147:LEU:CD2	2.35	0.50
37:BP:122:GLY:O	37:BP:124:LYS:C	2.50	0.50
37:BP:6:ARG:HG2	37:BP:7:MET:H	1.77	0.50
38:BQ:67:LEU:O	38:BQ:68:ARG:C	2.49	0.50
38:BQ:79:LEU:CD2	38:BQ:80:PHE:H	2.22	0.50
24:BA:2881:C:O2'	38:BQ:95:THR:O	2.27	0.50
40:BS:104:ASN:O	40:BS:105:LEU:O	2.29	0.50
40:BS:36:GLU:OE2	40:BS:76:PHE:HZ	1.95	0.50
40:BS:49:VAL:O	40:BS:50:ILE:HG12	2.12	0.50
40:BS:76:PHE:CE2	40:BS:78:LEU:CG	2.95	0.50
41:BT:88:ILE:O	42:BU:55:ALA:HB3	2.11	0.50
42:BU:21:ARG:O	42:BU:93:GLU:CD	2.50	0.50
44:BW:43:VAL:CG1	44:BW:51:VAL:HG22	2.41	0.50
45:BX:19:LYS:CG	45:BX:21:LYS:HE2	2.42	0.50
45:BX:49:VAL:HG21	45:BX:51:VAL:CB	2.40	0.50
46:BY:107:THR:OG1	46:BY:142:SER:N	2.45	0.50
46:BY:128:VAL:HB	46:BY:162:GLU:HG3	1.94	0.50
46:BY:166:SER:OG	46:BY:167:PRO:CD	2.59	0.50
3:AD:21:A:HO2'	3:AD:22:G:C1'	2.25	0.50
26:BC:211:SER:CB	26:BC:213:TYR:CE1	2.74	0.50
26:BC:211:SER:HB2	26:BC:223:ARG:NH2	2.26	0.50
24:BA:1495:A:H8	24:BA:1495:A:O5'	1.95	0.50
32:BK:60:GLU:O	32:BK:63:ALA:N	2.45	0.50
1:AA:1025:U:H2'	1:AA:1026:G:C8	2.46	0.50
18:AS:46:PRO:CG	18:AS:47:ASP:H	2.20	0.50
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.46	0.50
24:BA:2671:A:P	28:BE:206:LYS:HZ1	2.34	0.50
49:B2:36:VAL:O	49:B2:36:VAL:CG2	2.60	0.50
24:BA:2464:C:C2	24:BA:2465:C:C6	3.00	0.50
1:AA:107:G:H2'	1:AA:108:G:O4'	2.12	0.50
1:AA:118:U:C4	1:AA:288:A:H2'	2.46	0.50
1:AA:1257:U:H2'	1:AA:1258:G:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:185:A:C6	1:AA:186:C:C4	3.00	0.50
1:AA:266:G:H8	19:AT:67:LYS:HE2	1.76	0.50
1:AA:321:A:H2'	1:AA:322:C:C5	2.47	0.50
1:AA:32:A:H2'	1:AA:33:A:O4'	2.12	0.50
1:AA:406:G:N2	1:AA:407:G:C5	2.80	0.50
1:AA:432:A:C3'	1:AA:432:A:C8	2.95	0.50
1:AA:522:C:O4'	1:AA:536:C:H4'	2.12	0.50
1:AA:566:G:H4'	1:AA:567:G:C5'	2.42	0.50
1:AA:594:G:C4	1:AA:595:G:H1'	2.46	0.50
1:AA:736:C:OP1	20:AU:72:ARG:NH2	2.45	0.50
1:AA:766:A:H2'	1:AA:767:A:H8	1.76	0.50
1:AA:80:G:N2	1:AA:90:C:O2	2.45	0.50
1:AA:924:C:O2'	1:AA:1399:C:C6	2.64	0.50
1:AA:945:G:C2	1:AA:1337:G:C2	3.00	0.50
1:AA:994:A:N3	16:AQ:5:ALA:HA	2.27	0.50
2:AC:37:A:C4	2:AC:38:A:C8	3.00	0.50
4:AE:92:TYR:HE2	4:AE:151:GLY:CA	2.25	0.50
5:AF:69:HIS:ND1	5:AF:104:GLN:CB	2.73	0.50
5:AF:188:LEU:CD1	5:AF:190:ARG:HG3	2.37	0.50
5:AF:46:GLU:HB3	5:AF:47:LEU:CD2	2.42	0.50
6:AG:8:VAL:HG21	6:AG:115:ARG:HH22	1.77	0.50
6:AG:100:ARG:NH2	6:AG:136:PRO:O	2.45	0.50
6:AG:31:CYS:C	6:AG:33:MET:N	2.64	0.50
6:AG:15:GLU:OE2	6:AG:63:LYS:CA	2.59	0.50
9:AJ:76:ARG:CB	9:AJ:156:TRP:CZ2	2.92	0.50
9:AJ:80:VAL:C	9:AJ:82:GLY:H	2.15	0.50
11:AL:111:ARG:HG2	11:AL:113:LYS:HE3	1.94	0.50
11:AL:19:LEU:CD2	11:AL:20:ARG:H	2.24	0.50
11:AL:17:VAL:HG13	11:AL:63:ILE:CG1	2.41	0.50
12:AM:32:ALA:H	12:AM:74:ILE:HG23	1.77	0.50
12:AM:23:ILE:CG1	12:AM:85:LEU:HB3	2.32	0.50
13:AN:59:TYR:O	13:AN:62:GLN:N	2.45	0.50
13:AN:67:ASP:O	13:AN:68:ALA:C	2.50	0.50
13:AN:67:ASP:HA	13:AN:70:LYS:CD	2.42	0.50
14:AO:113:ARG:HB3	14:AO:117:ARG:HD2	1.94	0.50
14:AO:9:GLN:O	14:AO:12:ARG:N	2.44	0.50
15:AP:23:TYR:O	15:AP:66:LEU:CD1	2.54	0.50
15:AP:4:ILE:O	15:AP:8:GLU:CB	2.51	0.50
16:AQ:57:ARG:HG2	16:AQ:58:LYS:O	2.11	0.50
17:AR:57:LEU:H	17:AR:57:LEU:CD1	2.23	0.50
18:AS:14:ASN:HA	18:AS:42:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:7:THR:HG23	19:AT:8:GLY:H	1.77	0.50
50:B3:54:GLY:O	50:B3:55:ARG:HB2	2.12	0.50
51:B4:10:LYS:CD	51:B4:15:ARG:NH2	2.58	0.50
53:B6:9:ARG:O	53:B6:10:ARG:O	2.30	0.50
24:BA:1044:G:H1'	24:BA:1047:G:H21	1.77	0.50
24:BA:1096:A:N7	24:BA:1097:U:C2	2.80	0.50
24:BA:1102:C:O2	24:BA:1103:A:C8	2.65	0.50
24:BA:1223:C:C4	24:BA:1227:A:C6	3.00	0.50
24:BA:1226:G:H3'	24:BA:1226:G:C8	2.46	0.50
24:BA:1227:A:C8	24:BA:1228:G:C5'	2.83	0.50
24:BA:1353:A:N1	24:BA:1378:A:C4	2.79	0.50
24:BA:1449:A:C4'	24:BA:1542:G:H21	2.24	0.50
24:BA:1492:G:C2	24:BA:1499:C:C4	3.00	0.50
24:BA:1570:A:N6	24:BA:1571:A:N6	2.52	0.50
24:BA:1634:A:O3'	24:BA:1635:G:C8	2.65	0.50
24:BA:1749:A:O2'	24:BA:1750:G:H5'	2.12	0.50
24:BA:1805:U:C5'	27:BD:248:SER:OG	2.59	0.50
1:AA:784:C:H4'	24:BA:1837:C:OP1	2.11	0.50
24:BA:1913:A:C1'	24:BA:1918:A:N6	2.68	0.50
24:BA:1952:A:H1'	24:BA:2560:C:O2'	2.12	0.50
24:BA:2069:G:C2	24:BA:2070:G:C8	3.00	0.50
24:BA:2074:U:C3'	24:BA:2075:U:H5''	2.41	0.50
24:BA:2392:A:H8	24:BA:2393:A:O4'	1.95	0.50
24:BA:2555:U:H5	24:BA:2556:C:N1	2.09	0.50
24:BA:2570:G:N3	24:BA:2570:G:C2'	2.75	0.50
24:BA:2627:G:N3	24:BA:2627:G:H2'	2.26	0.50
24:BA:2635:C:C2'	24:BA:2636:U:O5'	2.60	0.50
24:BA:2659:G:O2'	24:BA:2661:G:N7	2.45	0.50
24:BA:2661:G:C4	24:BA:2662:A:N7	2.80	0.50
24:BA:2808:U:H1'	24:BA:2892:A:H61	1.76	0.50
24:BA:2816:C:O2'	24:BA:2817:G:H5'	2.12	0.50
24:BA:2863:C:O2	24:BA:2864:G:C8	2.65	0.50
24:BA:2866:U:H4'	24:BA:2867:G:O5'	2.12	0.50
24:BA:288:C:H3'	24:BA:289:A:H4'	1.93	0.50
24:BA:352:G:C2'	24:BA:353:G:H5'	2.38	0.50
24:BA:364:C:C2	24:BA:365:C:C4	3.00	0.50
24:BA:385:C:O2	24:BA:385:C:H2'	2.11	0.50
24:BA:388:G:O5'	50:B3:23:GLU:HB3	2.12	0.50
24:BA:49:A:C2	24:BA:51:G:N2	2.79	0.50
24:BA:580:C:H2'	24:BA:581:C:H6	1.76	0.50
24:BA:834:C:H5'	36:BO:49:ARG:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:998:C:P	41:BT:92:ARG:HH22	2.34	0.50
25:BB:65:C:C4	25:BB:108:C:C5	2.99	0.50
25:BB:76:G:H8	25:BB:76:G:H3'	1.76	0.50
27:BD:118:VAL:CG1	27:BD:119:ALA:H	2.09	0.50
28:BE:37:ARG:O	28:BE:39:PRO:HD2	2.09	0.50
28:BE:50:GLY:HA3	28:BE:76:ARG:HE	1.75	0.50
29:BF:132:VAL:HG22	29:BF:135:LYS:CB	2.39	0.50
29:BF:176:LEU:HD12	29:BF:178:PRO:HD2	1.94	0.50
29:BF:40:GLN:O	29:BF:44:ARG:HG2	2.12	0.50
30:BG:107:LEU:HD11	30:BG:177:GLY:C	2.30	0.50
30:BG:14:GLU:O	30:BG:17:PRO:HD2	2.11	0.50
30:BG:36:LYS:HB3	30:BG:95:ARG:HG3	1.93	0.50
31:BH:127:GLU:HB2	31:BH:131:VAL:HG23	1.93	0.50
32:BK:5:LEU:HA	32:BK:36:ALA:HB1	1.94	0.50
33:BL:88:ALA:C	33:BL:90:LYS:N	2.66	0.50
24:BA:527:C:C6	34:BM:114:ARG:HD2	2.47	0.50
34:BM:26:LEU:CD1	34:BM:30:ILE:HD11	2.42	0.50
35:BN:18:LYS:CE	35:BN:44:LYS:CD	2.71	0.50
35:BN:71:ARG:N	35:BN:72:PRO:HD2	2.27	0.50
36:BO:117:GLU:HG2	36:BO:118:GLY:H	1.77	0.50
37:BP:114:ALA:O	37:BP:115:MET:C	2.50	0.50
37:BP:24:GLY:O	37:BP:26:TYR:CE2	2.65	0.50
37:BP:51:ARG:NH2	37:BP:55:VAL:CG2	2.69	0.50
38:BQ:85:PRO:O	38:BQ:88:ARG:N	2.45	0.50
39:BR:52:SER:OG	39:BR:69:VAL:HG22	2.12	0.50
35:BN:106:LEU:CD2	40:BS:39:ARG:NH2	2.68	0.50
40:BS:50:ILE:O	40:BS:66:VAL:HG12	2.12	0.50
40:BS:55:ASN:ND2	40:BS:57:PHE:HZ	2.09	0.50
41:BT:57:PHE:CG	41:BT:60:LEU:HD22	2.47	0.50
42:BU:15:GLU:OE1	42:BU:100:ARG:NH1	2.45	0.50
42:BU:4:ILE:O	42:BU:40:LEU:O	2.30	0.50
43:BV:69:LEU:HB3	43:BV:107:LEU:HD11	1.92	0.50
45:BX:28:LYS:HB3	45:BX:35:TYR:HB3	1.93	0.50
45:BX:23:ARG:CD	45:BX:39:VAL:HG22	2.34	0.50
3:AD:51:C:C2'	3:AD:52:G:C8	2.85	0.50
26:BC:10:LEU:HD12	26:BC:13:LYS:HD2	1.94	0.50
26:BC:162:GLU:CG	26:BC:163:PHE:N	2.75	0.50
26:BC:8:ARG:HA	26:BC:11:LEU:CB	2.42	0.50
26:BC:91:ALA:HB2	26:BC:153:ILE:HD12	1.93	0.50
1:AA:160:A:C6	1:AA:346:G:O6	2.65	0.50
36:BO:148:LEU:CD2	36:BO:149:GLU:H	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2828:C:H2'	24:BA:2829:C:H6	1.77	0.50
45:BX:105:ALA:C	45:BX:107:ASP:H	2.14	0.50
8:AI:32:ASN:N	8:AI:32:ASN:HD22	2.10	0.50
31:BH:57:ASP:CG	31:BH:57:ASP:O	2.49	0.50
1:AA:1133:G:C6	1:AA:1134:G:N7	2.80	0.50
1:AA:1154:G:N3	1:AA:1155:G:C8	2.80	0.50
1:AA:1441:G:H1'	1:AA:1461:G:N2	2.27	0.50
1:AA:1463:C:H2'	1:AA:1464:G:O4'	2.12	0.50
1:AA:1494:G:N3	1:AA:1495:U:C5	2.64	0.50
1:AA:184:G:H5'	1:AA:224:C:O2'	2.12	0.50
1:AA:246:A:N1	1:AA:279:A:C5	2.80	0.50
1:AA:403:C:O2'	6:AG:122:ARG:NH1	2.45	0.50
1:AA:511:C:O2'	1:AA:512:U:O5'	2.30	0.50
1:AA:568:G:N2	1:AA:574:A:C2	2.76	0.50
1:AA:575:G:H4'	1:AA:576:G:H5'	1.94	0.50
1:AA:652:U:O2'	1:AA:653:A:C2	2.58	0.50
1:AA:683:G:H2'	1:AA:684:A:H8	1.74	0.50
1:AA:693:G:H2'	1:AA:694:A:O4'	2.11	0.50
1:AA:698:G:N3	1:AA:699:C:C6	2.80	0.50
1:AA:760:G:H2'	19:AT:103:GLY:HA3	1.93	0.50
1:AA:780:A:C2	1:AA:803:G:N1	2.80	0.50
1:AA:945:G:N1	1:AA:946:A:N7	2.59	0.50
1:AA:975:A:H4'	1:AA:976:G:O5'	2.11	0.50
4:AE:76:GLN:O	4:AE:211:ILE:CD1	2.60	0.50
4:AE:60:ASP:O	4:AE:64:ARG:NE	2.44	0.50
4:AE:90:MET:C	4:AE:154:LEU:HD13	2.32	0.50
5:AF:19:GLU:CD	5:AF:19:GLU:N	2.65	0.50
6:AG:101:LEU:CD1	6:AG:105:VAL:CG2	2.89	0.50
6:AG:121:VAL:HA	6:AG:126:ILE:CG1	2.42	0.50
6:AG:64:LEU:HD12	6:AG:75:PHE:CZ	2.47	0.50
6:AG:82:ALA:C	6:AG:89:THR:HG23	2.32	0.50
8:AI:67:MET:SD	8:AI:67:MET:C	2.90	0.50
9:AJ:62:PHE:CD1	9:AJ:124:LEU:HD11	2.47	0.50
11:AL:113:LYS:C	11:AL:115:GLY:H	2.14	0.50
11:AL:113:LYS:HZ1	11:AL:119:ALA:HB2	1.75	0.50
11:AL:96:LEU:CD1	11:AL:101:PHE:CE1	2.95	0.50
13:AN:21:ILE:CD1	13:AN:82:VAL:HG11	2.42	0.50
14:AO:110:VAL:CG2	14:AO:113:ARG:HG3	2.41	0.50
14:AO:85:ILE:CD1	14:AO:99:HIS:N	2.75	0.50
15:AP:27:LYS:O	15:AP:28:ALA:HB3	2.12	0.50
15:AP:63:THR:CG2	15:AP:64:TRP:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:97:PRO:HG2	15:AP:103:THR:HG23	1.93	0.50
17:AR:29:VAL:O	17:AR:30:ALA:C	2.49	0.50
18:AS:51:VAL:HG21	18:AS:73:LEU:HD11	1.93	0.50
18:AS:61:SER:OG	18:AS:62:VAL:N	2.43	0.50
18:AS:6:LEU:CD2	18:AS:6:LEU:C	2.81	0.50
19:AT:19:VAL:HG21	19:AT:46:ASP:HB2	1.94	0.50
20:AU:79:LEU:N	20:AU:79:LEU:CD1	2.75	0.50
21:AV:80:TYR:CE1	21:AV:81:ARG:HB2	2.46	0.50
22:AW:88:VAL:HG12	22:AW:92:LEU:HD12	1.93	0.50
49:B2:9:VAL:HG21	49:B2:52:HIS:O	2.12	0.50
50:B3:51:ASP:C	50:B3:52:THR:HG1	2.07	0.50
24:BA:2816:C:H5'	51:B4:42:PRO:HB2	1.94	0.50
51:B4:6:VAL:O	51:B4:6:VAL:CG1	2.59	0.50
54:B7:9:GLY:HA2	54:B7:12:LYS:HB3	1.94	0.50
54:B7:23:VAL:HG13	54:B7:24:ALA:H	1.77	0.50
54:B7:51:ALA:O	54:B7:52:LYS:C	2.51	0.50
24:BA:1062:G:N2	24:BA:1063:G:C1'	2.74	0.50
24:BA:1093:G:C2	24:BA:1099:G:O6	2.65	0.50
24:BA:980:A:N6	24:BA:1135:C:H5''	2.27	0.50
24:BA:1179:C:O2'	24:BA:1180:C:P	2.69	0.50
24:BA:1252:G:C8	24:BA:1253:A:C4	3.00	0.50
24:BA:1306:C:O2'	24:BA:1307:A:H5'	2.11	0.50
24:BA:1311:G:N7	53:B6:48:LYS:NZ	2.45	0.50
24:BA:1363:C:N3	24:BA:1369:G:C6	2.80	0.50
24:BA:1689:A:O2'	24:BA:1690:A:H5'	2.11	0.50
24:BA:1789:A:C4	24:BA:1790:C:H1'	2.47	0.50
24:BA:1860:G:H2'	24:BA:1861:G:C8	2.46	0.50
24:BA:415:A:O4'	24:BA:1869:G:H5''	2.11	0.50
24:BA:1936:A:N3	24:BA:1940:U:O2	2.44	0.50
24:BA:1952:A:H3'	24:BA:1952:A:H8	1.76	0.50
24:BA:1994:C:O2'	24:BA:1995:U:H5'	2.12	0.50
24:BA:2346:A:C2	24:BA:2383:G:C2	2.99	0.50
24:BA:2376:A:C2'	24:BA:2377:A:O4'	2.59	0.50
24:BA:2394:C:OP1	36:BO:57:THR:CA	2.55	0.50
24:BA:2402:C:OP2	24:BA:2402:C:C6	2.64	0.50
24:BA:410:G:C2	24:BA:2407:G:N7	2.80	0.50
24:BA:2445:G:H2'	24:BA:2446:G:N7	2.25	0.50
24:BA:2474:C:H2'	24:BA:2475:C:C5'	2.42	0.50
24:BA:2495:G:C6	24:BA:2496:C:N4	2.80	0.50
24:BA:2509:G:C2'	24:BA:2510:C:O5'	2.59	0.50
24:BA:2519:U:C2	24:BA:2542:A:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:251:A:HO2'	24:BA:252:G:P	2.35	0.50
24:BA:2595:G:C6	24:BA:2597:G:OP1	2.65	0.50
24:BA:2809:A:O4'	24:BA:2809:A:N3	2.45	0.50
24:BA:2834:G:H3'	24:BA:2834:G:C8	2.47	0.50
24:BA:285:C:C2	24:BA:286:C:C5	2.99	0.50
24:BA:2889:C:C2'	24:BA:2891:G:C8	2.77	0.50
24:BA:295:G:C6	24:BA:296:C:C5	3.00	0.50
24:BA:326:G:C4	24:BA:327:G:C8	2.99	0.50
24:BA:220:G:N1	24:BA:427:U:C6	2.80	0.50
24:BA:447:A:C8	24:BA:454:A:N6	2.80	0.50
24:BA:476:G:N2	24:BA:478:A:C3'	2.58	0.50
24:BA:13:A:N6	24:BA:525:U:C5	2.76	0.50
24:BA:559:G:C8	24:BA:559:G:H5'	2.28	0.50
24:BA:66:C:N4	24:BA:67:U:O4	2.45	0.50
24:BA:692:C:H2'	24:BA:693:C:O5'	2.12	0.50
24:BA:724:U:H2'	24:BA:725:G:O4'	2.12	0.50
24:BA:760:G:C5	24:BA:761:A:C8	3.00	0.50
24:BA:783:A:C6	24:BA:785:G:C8	2.99	0.50
24:BA:7:G:O2'	24:BA:8:A:C5'	2.60	0.50
24:BA:803:U:H2'	24:BA:804:A:C5'	2.37	0.50
24:BA:809:G:C8	24:BA:810:U:H5	2.30	0.50
24:BA:84:A:N6	24:BA:99:U:O2	2.45	0.50
24:BA:997:G:N3	24:BA:998:C:C5	2.80	0.50
24:BA:99:U:H5'	24:BA:101:G:H5'	1.93	0.50
25:BB:56:G:O2'	25:BB:57:A:C5'	2.59	0.50
25:BB:71:C:O2	25:BB:72:G:C4'	2.60	0.50
25:BB:75:G:O6	25:BB:76:G:N2	2.43	0.50
27:BD:151:LYS:O	27:BD:152:GLY:O	2.29	0.50
27:BD:70:TRP:HZ3	27:BD:190:TYR:CB	2.21	0.50
27:BD:7:LYS:HD2	27:BD:9:TYR:CE2	2.46	0.50
28:BE:22:PRO:CA	28:BE:185:LYS:N	2.73	0.50
28:BE:5:LEU:CD1	28:BE:196:VAL:HG23	2.40	0.50
28:BE:51:PHE:O	28:BE:74:PRO:HB3	2.11	0.50
29:BF:129:PHE:O	29:BF:142:TRP:CZ3	2.64	0.50
29:BF:64:ILE:HG12	29:BF:65:TRP:N	2.26	0.50
30:BG:127:GLY:O	30:BG:128:ARG:HB2	2.11	0.50
30:BG:12:TYR:CG	30:BG:13:GLU:N	2.79	0.50
30:BG:21:ARG:O	30:BG:22:ARG:C	2.49	0.50
30:BG:30:GLU:CG	30:BG:162:THR:HG21	2.42	0.50
30:BG:63:ILE:CG2	30:BG:64:THR:N	2.75	0.50
31:BH:7:LEU:CA	31:BH:52:VAL:CG1	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:69:ARG:CG	31:BH:69:ARG:NH2	2.68	0.50
31:BH:78:GLY:O	31:BH:80:SER:N	2.45	0.50
32:BK:9:LEU:O	32:BK:10:GLU:HB2	2.12	0.50
33:BL:102:GLU:O	33:BL:103:GLN:C	2.49	0.50
33:BL:18:THR:HG22	33:BL:34:ILE:HG22	1.93	0.50
34:BM:17:ASP:OD1	34:BM:18:ALA:N	2.45	0.50
34:BM:2:LYS:N	41:BT:61:TRP:CH2	2.79	0.50
36:BO:73:GLY:C	36:BO:107:LYS:HE3	2.31	0.50
36:BO:124:LYS:HD2	36:BO:142:GLY:C	2.31	0.50
37:BP:126:PRO:O	37:BP:127:ILE:CG2	2.56	0.50
43:BV:67:ASP:C	43:BV:67:ASP:OD1	2.50	0.50
45:BX:74:PRO:CB	45:BX:101:LYS:CA	2.90	0.50
45:BX:97:ARG:NH2	45:BX:101:LYS:CE	2.75	0.50
45:BX:42:VAL:O	45:BX:61:ILE:HB	2.12	0.50
45:BX:65:ALA:O	45:BX:66:PRO:O	2.30	0.50
46:BY:39:VAL:HG21	46:BY:86:VAL:HG21	1.90	0.50
47:BZ:45:PHE:O	47:BZ:47:PRO:HD3	2.12	0.50
47:BZ:56:ASP:O	47:BZ:57:PHE:HB2	2.11	0.50
32:BK:103:ARG:HH12	32:BK:104:GLN:HE22	1.53	0.50
24:BA:2132:U:H2'	24:BA:2132:U:O2	2.10	0.50
24:BA:2139:C:O2'	24:BA:2140:C:C5'	2.58	0.50
26:BC:127:LEU:CA	26:BC:130:ILE:HD13	2.41	0.50
26:BC:95:GLY:N	26:BC:99:ILE:HD12	2.26	0.50
1:AA:1005:A:C1'	1:AA:1036:G:N2	2.73	0.50
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.76	0.50
24:BA:2194:G:C2	24:BA:2195:C:C4	3.00	0.50
24:BA:2101:G:C2	24:BA:2102:U:C2	2.99	0.50
24:BA:2187:G:H2'	24:BA:2188:C:O4'	2.11	0.50
1:AA:1091:U:O2	1:AA:1095:U:C4	2.64	0.49
1:AA:1127:G:O2'	1:AA:1148:U:N3	2.43	0.49
1:AA:1200:C:H5''	1:AA:1202:G:P	2.52	0.49
1:AA:1202:G:H2'	1:AA:1203:C:O5'	2.12	0.49
1:AA:1299:A:C5	1:AA:1301:U:H1'	2.46	0.49
1:AA:1320:C:H3'	1:AA:1321:C:C5	2.47	0.49
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.11	0.49
1:AA:1406:U:H2'	1:AA:1406:U:O2	2.12	0.49
1:AA:1464:G:C2	1:AA:1465:C:C4	3.00	0.49
1:AA:1483:A:H2'	1:AA:1484:C:C5'	2.41	0.49
1:AA:1530:G:H2'	1:AA:1531:A:O5'	2.11	0.49
1:AA:184:G:H5'	1:AA:224:C:HO2'	1.77	0.49
1:AA:270:A:H2'	1:AA:271:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:33:A:C6	1:AA:34:C:N4	2.80	0.49
1:AA:394:G:C5	1:AA:395:C:C4	3.00	0.49
1:AA:559:A:C4'	1:AA:560:U:C5'	2.53	0.49
1:AA:598:U:H2'	1:AA:599:C:C6	2.44	0.49
1:AA:611:A:N6	1:AA:629:G:N1	2.56	0.49
1:AA:766:A:C8	1:AA:814:A:N6	2.80	0.49
1:AA:959:A:C2'	1:AA:960:U:H4'	2.35	0.49
1:AA:983:A:C3'	1:AA:983:A:N3	2.75	0.49
1:AA:996:A:C6	1:AA:997:U:C4	3.00	0.49
2:AC:17:C:C6	2:AC:19:G:OP2	2.64	0.49
4:AE:133:LYS:HB3	4:AE:137:ARG:NH1	2.27	0.49
4:AE:19:HIS:CD2	4:AE:20:GLU:OE1	2.63	0.49
4:AE:234:PRO:HA	4:AE:238:LEU:HD13	1.93	0.49
4:AE:33:TYR:HB3	4:AE:41:ILE:O	2.12	0.49
4:AE:69:LEU:CD2	4:AE:91:PRO:C	2.77	0.49
5:AF:12:LEU:HD22	16:AQ:57:ARG:CD	2.42	0.49
5:AF:84:ILE:HG13	5:AF:101:LEU:CD2	2.40	0.49
6:AG:149:ALA:O	6:AG:150:GLU:O	2.30	0.49
1:AA:9:G:H5'	7:AH:122:GLU:OE2	2.12	0.49
7:AH:149:GLU:O	7:AH:150:ARG:C	2.51	0.49
7:AH:28:PHE:CZ	7:AH:50:GLU:HA	2.47	0.49
10:AK:100:ILE:HD13	10:AK:125:ARG:NH2	2.26	0.49
10:AK:31:PHE:O	10:AK:32:LYS:C	2.51	0.49
12:AM:34:VAL:HG12	12:AM:35:SER:N	2.26	0.49
12:AM:75:ILE:CG2	12:AM:76:ASN:N	2.75	0.49
12:AM:30:SER:OG	12:AM:81:THR:HG23	2.12	0.49
13:AN:83:ILE:HD12	13:AN:83:ILE:N	2.26	0.49
13:AN:91:ARG:CG	13:AN:95:ILE:HD11	2.42	0.49
14:AO:54:LYS:C	14:AO:70:ILE:HD12	2.32	0.49
15:AP:39:ILE:HG22	15:AP:55:ARG:HH22	1.77	0.49
5:AF:40:ARG:CZ	16:AQ:52:GLN:HB3	2.41	0.49
5:AF:33:LEU:HD21	16:AQ:54:PRO:HD2	1.93	0.49
18:AS:49:LEU:HD12	18:AS:50:LYS:N	2.27	0.49
19:AT:94:ASN:OD1	19:AT:104:LYS:HG3	2.12	0.49
22:AW:86:ARG:CG	22:AW:87:LYS:H	2.25	0.49
22:AW:50:GLU:CB	22:AW:99:LEU:HD12	2.41	0.49
51:B4:29:THR:C	51:B4:30:LEU:HG	2.32	0.49
53:B6:41:ARG:CB	53:B6:41:ARG:NH1	2.56	0.49
53:B6:43:THR:CG2	53:B6:46:VAL:HB	2.41	0.49
54:B7:53:PRO:O	54:B7:57:ARG:HB2	2.11	0.49
54:B7:58:ILE:HD12	54:B7:59:LYS:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1025:G:N3	24:BA:1025:G:H2'	2.27	0.49
24:BA:1140:C:H2'	24:BA:1141:U:OP2	2.12	0.49
24:BA:1264:G:P	51:B4:10:LYS:HZ3	2.34	0.49
24:BA:126:A:N7	24:BA:127:A:C4	2.79	0.49
24:BA:146:G:C5	24:BA:147:U:C6	2.99	0.49
24:BA:1620:G:H2'	24:BA:1621:U:O5'	2.12	0.49
24:BA:1672:C:H41	24:BA:1673:U:H5	1.60	0.49
24:BA:1779:U:H3'	24:BA:1779:U:H6	1.74	0.49
24:BA:1857:G:C8	24:BA:1858:G:C5	3.00	0.49
24:BA:1862:G:O2'	24:BA:1863:G:O5'	2.29	0.49
24:BA:190:A:H2'	24:BA:191:A:H8	1.70	0.49
24:BA:1826:G:O2'	24:BA:1971:A:O5'	2.27	0.49
24:BA:2029:G:H8	24:BA:2029:G:O5'	1.95	0.49
24:BA:223:A:HO2'	24:BA:224:G:P	2.34	0.49
24:BA:2304:G:N2	24:BA:2305:A:C2	2.79	0.49
24:BA:2308:G:H5''	24:BA:2310:A:C6	2.47	0.49
24:BA:244:A:C5	24:BA:245:G:H1'	2.47	0.49
24:BA:246:C:O2'	24:BA:385:C:C4'	2.60	0.49
24:BA:2488:A:C6	24:BA:2489:G:C5	3.00	0.49
24:BA:2521:C:C3'	24:BA:2522:U:C5'	2.90	0.49
24:BA:2603:G:C2'	24:BA:2604:U:O5'	2.59	0.49
24:BA:2633:G:C5	24:BA:2634:G:N7	2.79	0.49
24:BA:2852:G:O6	24:BA:2866:U:O4	2.30	0.49
24:BA:400:G:C3'	24:BA:400:G:C8	2.92	0.49
24:BA:452:G:N7	24:BA:453:C:C5	2.80	0.49
24:BA:546:C:O2'	24:BA:547:A:O4'	2.27	0.49
24:BA:572:A:C6	24:BA:573:G:N1	2.80	0.49
24:BA:775:G:O4'	24:BA:777:A:C2	2.65	0.49
24:BA:77:C:H2'	24:BA:78:A:H8	1.77	0.49
24:BA:818:G:O2'	24:BA:819:A:H5''	2.11	0.49
24:BA:84:A:O2'	24:BA:103:A:N6	2.45	0.49
24:BA:943:U:C6	24:BA:944:G:C8	2.99	0.49
24:BA:93:C:H2'	24:BA:94:G:C8	2.47	0.49
24:BA:974:G:N3	24:BA:1186:G:C6	2.80	0.49
25:BB:87:G:N2	25:BB:90:C:C2	2.80	0.49
27:BD:147:LEU:HD23	27:BD:147:LEU:N	2.26	0.49
27:BD:136:ILE:HG21	27:BD:165:ILE:HG21	1.94	0.49
27:BD:108:PRO:HA	27:BD:195:ALA:O	2.11	0.49
27:BD:214:TRP:CD1	27:BD:219:PRO:HB3	2.46	0.49
24:BA:1824:G:OP1	27:BD:53:PHE:CE1	2.63	0.49
28:BE:13:ARG:NH2	28:BE:20:ALA:CB	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:174:ASP:CG	28:BE:175:VAL:N	2.65	0.49
28:BE:201:THR:O	28:BE:202:LYS:HD3	2.12	0.49
28:BE:27:LEU:HD12	28:BE:27:LEU:C	2.32	0.49
28:BE:51:PHE:HB3	28:BE:76:ARG:NH2	2.24	0.49
28:BE:44:TYR:HB3	28:BE:82:ARG:HH11	1.77	0.49
29:BF:37:VAL:O	29:BF:184:TYR:CZ	2.65	0.49
29:BF:58:ALA:C	29:BF:60:SER:H	2.15	0.49
30:BG:55:LYS:HG3	30:BG:148:MET:SD	2.52	0.49
30:BG:55:LYS:HD2	30:BG:58:GLN:HB2	1.94	0.49
33:BL:131:ALA:HA	33:BL:136:VAL:HB	1.94	0.49
33:BL:134:MET:SD	33:BL:134:MET:C	2.90	0.49
33:BL:52:ILE:CD1	33:BL:80:LYS:HG2	2.42	0.49
34:BM:113:GLY:O	34:BM:116:LEU:CB	2.60	0.49
35:BN:112:MET:CA	35:BN:115:VAL:HG23	2.42	0.49
36:BO:74:GLU:HA	36:BO:107:LYS:HD3	1.94	0.49
36:BO:97:PRO:CA	36:BO:102:ARG:NH1	2.75	0.49
37:BP:127:ILE:N	37:BP:127:ILE:HD12	2.28	0.49
37:BP:35:VAL:O	37:BP:35:VAL:CG2	2.59	0.49
24:BA:2496:C:P	37:BP:83:MET:SD	3.09	0.49
39:BR:30:ARG:C	39:BR:34:HIS:CD2	2.84	0.49
39:BR:66:ALA:O	39:BR:67:ARG:C	2.51	0.49
40:BS:103:ARG:CG	40:BS:103:ARG:NH2	2.59	0.49
40:BS:103:ARG:HB3	40:BS:107:ASP:OD1	2.11	0.49
40:BS:10:VAL:CG1	40:BS:14:TYR:OH	2.59	0.49
40:BS:53:ARG:HD2	40:BS:53:ARG:N	2.27	0.49
40:BS:64:ARG:HA	40:BS:64:ARG:HH11	0.59	0.49
40:BS:98:LYS:O	40:BS:99:LEU:HB2	2.12	0.49
24:BA:533:G:C5'	41:BT:24:TYR:HD2	2.24	0.49
41:BT:55:ARG:HG3	41:BT:58:ARG:NE	2.26	0.49
42:BU:41:GLY:H	42:BU:50:PRO:C	2.16	0.49
42:BU:60:GLU:OE1	42:BU:60:GLU:HA	2.07	0.49
24:BA:1225:C:P	42:BU:88:ARG:HH22	2.35	0.49
43:BV:75:TYR:O	43:BV:104:THR:HG23	2.12	0.49
45:BX:47:LYS:HD3	45:BX:49:VAL:CG2	2.41	0.49
25:BB:76:G:H5''	46:BY:11:GLU:O	2.11	0.49
46:BY:145:GLU:CA	46:BY:174:VAL:HG21	2.42	0.49
3:AD:44:G:OP2	3:AD:44:G:C8	2.64	0.49
24:BA:2139:C:H2'	24:BA:2140:C:H6	1.77	0.49
24:BA:2157:G:O2'	24:BA:2158:A:OP1	2.26	0.49
24:BA:2126:A:C5	24:BA:2163:C:H4'	2.46	0.49
26:BC:20:TYR:HE1	26:BC:222:VAL:CG2	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:127:ILE:C	4:AE:129:GLU:H	2.15	0.49
24:BA:276:A:H2'	24:BA:276:A:N3	2.26	0.49
1:AA:1084:G:N3	1:AA:1085:U:O4	2.45	0.49
1:AA:1246:C:C4	1:AA:1247:U:C5	3.00	0.49
1:AA:1341:U:H5'	2:AC:32:C:OP1	2.12	0.49
1:AA:1349:A:OP1	11:AL:118:LYS:O	2.30	0.49
1:AA:1406:U:C2	1:AA:1407:C:C6	2.99	0.49
1:AA:1409:C:C2	1:AA:1410:G:C8	3.01	0.49
1:AA:1519:A:C2'	1:AA:1520:G:H5'	2.42	0.49
1:AA:1521:G:O2'	1:AA:1522:U:O5'	2.30	0.49
1:AA:308:C:O2	1:AA:309:G:C8	2.65	0.49
1:AA:40:C:O2'	1:AA:41:G:H5'	2.12	0.49
1:AA:406:G:C2	1:AA:437:U:O2	2.64	0.49
1:AA:609:A:C5	1:AA:610:G:C8	3.00	0.49
1:AA:735:C:HO2'	20:AU:75:ILE:HD13	1.76	0.49
1:AA:758:G:H8	1:AA:758:G:O5'	1.95	0.49
1:AA:848:C:H2'	1:AA:849:C:H6	1.76	0.49
1:AA:880:C:H3'	14:AO:9:GLN:HE21	1.76	0.49
1:AA:895:G:C4	1:AA:896:C:C5	3.00	0.49
1:AA:937:A:C8	1:AA:938:A:N7	2.81	0.49
1:AA:938:A:H2'	1:AA:939:G:O5'	2.12	0.49
1:AA:960:U:C2	1:AA:1225:A:N7	2.80	0.49
2:AC:19:G:C4'	2:AC:20:U:OP2	2.60	0.49
2:AC:26:G:C6	2:AC:27:U:C5	3.00	0.49
2:AC:63:G:H2'	2:AC:64:G:C8	2.47	0.49
3:AD:76:A:H3'	24:BA:2432:A:H4'	1.94	0.49
4:AE:152:PHE:CG	4:AE:153:ARG:N	2.79	0.49
4:AE:32:ILE:HD11	4:AE:40:HIS:HD2	1.77	0.49
5:AF:108:ASN:ND2	5:AF:110:ASN:HB2	2.27	0.49
5:AF:110:ASN:HB3	5:AF:144:SER:OG	2.12	0.49
5:AF:130:VAL:HG12	5:AF:134:ILE:CD1	2.42	0.49
5:AF:14:ILE:HG22	5:AF:15:THR:N	2.27	0.49
6:AG:159:ARG:HG3	6:AG:160:GLN:N	2.27	0.49
6:AG:185:PHE:CD2	6:AG:186:LEU:N	2.80	0.49
6:AG:190:ASP:O	6:AG:191:ARG:C	2.50	0.49
6:AG:200:GLU:CG	6:AG:201:GLN:HE21	2.26	0.49
6:AG:35:ARG:O	6:AG:37:PRO:CD	2.60	0.49
9:AJ:13:GLN:O	9:AJ:14:PRO:O	2.30	0.49
11:AL:97:LYS:NZ	11:AL:102:LEU:HD13	2.28	0.49
11:AL:50:LEU:HD21	11:AL:55:ALA:O	2.10	0.49
15:AP:10:PRO:HG2	15:AP:18:ALA:CB	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:10:PRO:HG3	15:AP:18:ALA:HB1	1.94	0.49
15:AP:58:GLU:O	15:AP:61:GLU:CB	2.60	0.49
15:AP:8:GLU:HG3	15:AP:22:ILE:CD1	2.42	0.49
16:AQ:60:SER:O	16:AQ:61:TRP:CB	2.59	0.49
16:AQ:3:ARG:HE	16:AQ:6:LEU:HG	1.77	0.49
17:AR:15:PHE:HE2	17:AR:85:LEU:HD11	1.77	0.49
18:AS:57:ARG:O	18:AS:60:LEU:HB2	2.13	0.49
19:AT:12:SER:OG	19:AT:14:LYS:HD2	2.11	0.49
21:AV:37:ARG:O	21:AV:70:LYS:HE2	2.12	0.49
1:AA:986:A:H4'	21:AV:55:LYS:CG	2.41	0.49
22:AW:53:LEU:CA	22:AW:56:MET:HB2	2.41	0.49
22:AW:33:ILE:HD11	22:AW:62:LEU:O	2.12	0.49
23:AX:17:THR:O	23:AX:22:ARG:CZ	2.60	0.49
48:B1:14:VAL:HG13	48:B1:15:GLU:H	1.77	0.49
50:B3:38:LYS:O	50:B3:39:CYS:CB	2.60	0.49
50:B3:64:GLY:O	50:B3:67:TYR:HB2	2.10	0.49
52:B5:20:ASN:CG	52:B5:42:TRP:CD1	2.85	0.49
52:B5:44:ARG:HD3	52:B5:47:THR:HG21	1.93	0.49
53:B6:1:MET:CE	53:B6:1:MET:HA	2.37	0.49
53:B6:43:THR:HG23	53:B6:46:VAL:HB	1.93	0.49
55:B8:19:ARG:HD2	55:B8:24:TYR:CB	2.42	0.49
24:BA:1025:G:N3	24:BA:1025:G:H3'	2.27	0.49
24:BA:1047:G:O2'	24:BA:1048:A:O5'	2.28	0.49
24:BA:1069:A:C4'	24:BA:1070:A:H3'	2.42	0.49
24:BA:1455:G:H2'	24:BA:1456:G:O4'	2.12	0.49
24:BA:1527:G:O6	24:BA:1541:U:C4	2.65	0.49
24:BA:1532:C:N4	24:BA:1540:G:N1	2.60	0.49
24:BA:1428:C:C5	24:BA:1569:A:H5''	2.47	0.49
24:BA:1600:C:O2	24:BA:1601:G:H1'	2.12	0.49
24:BA:1394:U:C4'	24:BA:1603:A:H4'	2.08	0.49
24:BA:1626:G:C5'	24:BA:1627:G:OP1	2.57	0.49
24:BA:1640:C:H2'	24:BA:1641:A:O4'	2.11	0.49
24:BA:1710:C:O2'	24:BA:2858:C:N4	2.45	0.49
24:BA:1742:C:C2	24:BA:1743:G:O4'	2.65	0.49
24:BA:1790:C:C3'	24:BA:1828:G:N2	2.65	0.49
24:BA:1907:G:H2'	24:BA:1908:C:H6	1.75	0.49
24:BA:1936:A:C2	24:BA:1945:G:C8	3.00	0.49
24:BA:2206:C:N3	24:BA:2207:C:C5	2.80	0.49
24:BA:2227:A:C2	24:BA:2228:G:C5	2.99	0.49
24:BA:2280:G:H2'	24:BA:2281:C:C6	2.47	0.49
24:BA:2378:A:N3	24:BA:2378:A:H3'	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:248:G:N3	24:BA:2431:U:C4'	2.76	0.49
24:BA:2565:A:H2'	24:BA:2566:A:C1'	2.42	0.49
24:BA:2049:G:N2	24:BA:2620:C:C2	2.80	0.49
24:BA:2642:G:C2	24:BA:2643:G:C8	3.00	0.49
24:BA:265:A:H2'	24:BA:266:G:C4'	2.42	0.49
24:BA:2694:G:H8	24:BA:2694:G:O5'	1.95	0.49
24:BA:2741:A:OP1	55:B8:22:ARG:NH2	2.44	0.49
24:BA:2781:A:C6	24:BA:2782:G:N3	2.81	0.49
24:BA:1710:C:HO2'	24:BA:2858:C:N4	2.10	0.49
24:BA:300:A:H8	24:BA:300:A:O5'	1.95	0.49
24:BA:301:G:C8	24:BA:317:G:N2	2.79	0.49
24:BA:223:A:OP2	24:BA:420:C:O2'	2.30	0.49
24:BA:472:A:C2'	24:BA:473:G:C5'	2.86	0.49
24:BA:482:A:N7	24:BA:506:G:C2	2.80	0.49
24:BA:482:A:O2'	24:BA:483:A:OP2	2.29	0.49
24:BA:636:G:C4'	24:BA:638:G:O2'	2.52	0.49
24:BA:646:A:C2	24:BA:647:G:C5	3.00	0.49
24:BA:658:C:C2	24:BA:659:C:C5	3.00	0.49
24:BA:721:C:N3	24:BA:722:A:N7	2.60	0.49
24:BA:815:C:H2'	24:BA:816:C:H5'	1.94	0.49
24:BA:926:A:C5	24:BA:929:G:N2	2.80	0.49
24:BA:931:G:N2	49:B2:25:ALA:N	2.58	0.49
24:BA:954:G:N3	24:BA:2274:A:H2	2.10	0.49
24:BA:957:A:C5	24:BA:959:A:C8	3.00	0.49
25:BB:29:A:OP1	39:BR:34:HIS:CE1	2.65	0.49
25:BB:83:G:N2	25:BB:84:C:N1	2.59	0.49
27:BD:133:LEU:HB2	27:BD:187:GLY:HA2	1.95	0.49
27:BD:176:ARG:HB2	27:BD:182:LEU:HD21	1.93	0.49
28:BE:100:GLU:C	28:BE:172:VAL:CG1	2.81	0.49
24:BA:659:C:H5'	29:BF:102:PRO:HD3	1.93	0.49
29:BF:171:PRO:O	29:BF:173:VAL:HG12	2.11	0.49
29:BF:5:ALA:HB1	29:BF:24:LEU:CG	2.40	0.49
24:BA:449:A:OP2	29:BF:85:GLY:HA2	2.12	0.49
30:BG:8:LYS:CE	30:BG:100:TRP:CD1	2.94	0.49
30:BG:105:LYS:HA	30:BG:109:VAL:CG1	2.42	0.49
30:BG:16:ARG:CB	30:BG:17:PRO:CD	2.90	0.49
30:BG:47:LYS:CE	30:BG:49:ASP:CG	2.81	0.49
30:BG:50:ALA:HB3	30:BG:51:ARG:CZ	2.42	0.49
30:BG:4:ASP:O	30:BG:7:LEU:HB2	2.11	0.49
30:BG:4:ASP:HA	30:BG:7:LEU:HG	1.95	0.49
25:BB:45:A:C1'	30:BG:95:ARG:HH12	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:13:LYS:HZ2	31:BH:28:GLY:HA2	1.77	0.49
32:BK:27:ARG:CG	32:BK:28:ASN:N	2.69	0.49
33:BL:18:THR:CG2	33:BL:38:VAL:HG21	2.42	0.49
24:BA:1076:C:C4'	33:BL:93:ARG:HH21	2.25	0.49
34:BM:104:LYS:CA	34:BM:117:PHE:CZ	2.81	0.49
34:BM:123:TYR:CB	34:BM:129:PRO:CB	2.89	0.49
34:BM:12:ARG:CZ	34:BM:12:ARG:CB	2.87	0.49
34:BM:25:ARG:O	34:BM:29:LYS:HG3	2.12	0.49
36:BO:137:LYS:HA	36:BO:140:ALA:CB	2.42	0.49
36:BO:89:ALA:O	36:BO:125:VAL:HG22	2.11	0.49
36:BO:96:THR:CG2	36:BO:99:LEU:HD12	2.41	0.49
37:BP:64:ILE:CG2	37:BP:107:ALA:HB2	2.42	0.49
37:BP:6:ARG:O	37:BP:7:MET:HG2	2.11	0.49
38:BQ:13:HIS:CD2	38:BQ:15:SER:HG	2.30	0.49
38:BQ:44:LEU:HD13	38:BQ:48:VAL:HG23	1.93	0.49
38:BQ:52:ILE:O	38:BQ:56:LYS:HG2	2.12	0.49
39:BR:24:LEU:CB	39:BR:41:ASP:HB3	2.42	0.49
39:BR:27:SER:O	39:BR:28:VAL:C	2.49	0.49
39:BR:67:ARG:HD2	39:BR:67:ARG:O	2.12	0.49
40:BS:17:THR:HG21	40:BS:22:PHE:HZ	1.74	0.49
41:BT:52:ARG:NH1	41:BT:53:ARG:CA	2.72	0.49
41:BT:80:ILE:O	41:BT:81:HIS:C	2.49	0.49
43:BV:12:ILE:CG1	43:BV:101:SER:HB2	2.26	0.49
43:BV:18:ARG:NE	43:BV:76:VAL:HG12	2.27	0.49
44:BW:65:ARG:CA	44:BW:70:LEU:HG	2.37	0.49
45:BX:39:VAL:O	45:BX:40:GLU:CB	2.59	0.49
45:BX:82:PRO:HG3	45:BX:97:ARG:H	1.74	0.49
47:BZ:26:TYR:C	47:BZ:67:VAL:HG11	2.32	0.49
32:BK:93:THR:HG23	32:BK:95:LYS:H	1.77	0.49
3:AD:14:A:C8	3:AD:22:G:N2	2.80	0.49
3:AD:52:G:C2	3:AD:53:G:H1'	2.47	0.49
24:BA:2174:C:C2	24:BA:2175:C:C5	2.99	0.49
26:BC:181:PRO:HB2	26:BC:184:LYS:HG3	1.94	0.49
18:AS:44:THR:CG2	18:AS:45:THR:H	2.09	0.49
27:BD:111:LEU:HD12	27:BD:115:GLN:HE22	1.77	0.49
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.12	0.49
1:AA:1184:G:C6	1:AA:1185:G:O6	2.65	0.49
1:AA:1125:U:H2'	1:AA:1281:U:O2	2.13	0.49
1:AA:132:C:O2'	1:AA:133:U:O5'	2.25	0.49
1:AA:1392:G:O2'	1:AA:1393:U:C5'	2.60	0.49
1:AA:1530:G:N1	1:AA:1531:A:H1'	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:198:G:C2'	1:AA:199:G:C5'	2.90	0.49
1:AA:131:C:C4	1:AA:232:G:N2	2.80	0.49
1:AA:259:G:H2'	1:AA:260:G:H8	1.75	0.49
1:AA:351:G:O5'	1:AA:351:G:H8	1.96	0.49
1:AA:44:G:C6	1:AA:399:G:N1	2.80	0.49
1:AA:413:G:H22	1:AA:428:G:C2'	2.24	0.49
1:AA:44:G:C6	1:AA:45:U:C2	3.00	0.49
1:AA:465:A:C6	1:AA:467:G:N3	2.80	0.49
1:AA:445:G:C6	1:AA:490:G:C6	3.00	0.49
1:AA:535:A:H4'	1:AA:536:C:OP2	2.12	0.49
1:AA:579:G:C5	1:AA:580:U:C5	3.01	0.49
1:AA:667:G:P	1:AA:732:C:O2'	2.71	0.49
1:AA:682:G:N1	1:AA:683:G:C8	2.79	0.49
1:AA:727:G:C5	1:AA:729:A:OP2	2.65	0.49
1:AA:734:G:OP1	1:AA:734:G:H8	1.94	0.49
1:AA:874:G:O2'	1:AA:875:C:H5'	2.11	0.49
1:AA:890:G:O2'	1:AA:891:U:P	2.70	0.49
1:AA:894:G:C6	1:AA:895:G:N7	2.81	0.49
2:AC:62:C:O2'	2:AC:63:G:O5'	2.31	0.49
4:AE:132:LYS:N	4:AE:132:LYS:HE2	2.24	0.49
4:AE:167:PRO:HG2	4:AE:168:THR:N	2.22	0.49
4:AE:82:ARG:CA	4:AE:94:ASN:HD21	2.25	0.49
6:AG:154:ASN:HD22	6:AG:154:ASN:N	2.09	0.49
6:AG:65:ARG:HE	6:AG:71:SER:C	2.14	0.49
6:AG:88:VAL:HG12	6:AG:90:GLY:N	2.27	0.49
1:AA:1194:U:C4'	7:AH:22:GLY:O	2.55	0.49
7:AH:60:TYR:CE1	7:AH:64:ARG:CZ	2.92	0.49
7:AH:89:ILE:HD13	7:AH:90:VAL:N	2.27	0.49
8:AI:87:ARG:NH1	8:AI:87:ARG:HG2	2.25	0.49
9:AJ:74:GLU:CG	9:AJ:75:VAL:H	2.25	0.49
10:AK:134:ILE:HG22	10:AK:135:CYS:HB3	1.93	0.49
10:AK:48:TYR:HB2	10:AK:61:VAL:HG22	1.95	0.49
11:AL:103:THR:HG23	11:AL:104:ARG:H	1.77	0.49
11:AL:37:PHE:HD1	11:AL:43:ALA:CA	2.16	0.49
12:AM:32:ALA:CB	12:AM:75:ILE:O	2.56	0.49
5:AF:5:ILE:HG23	12:AM:51:ARG:HH12	1.77	0.49
14:AO:6:THR:OG1	14:AO:9:GLN:CG	2.61	0.49
14:AO:84:LEU:CG	14:AO:85:ILE:N	2.73	0.49
15:AP:96:LEU:O	15:AP:110:ARG:NE	2.45	0.49
16:AQ:44:LEU:CD2	16:AQ:45:ARG:H	2.21	0.49
17:AR:24:SER:O	17:AR:27:VAL:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:41:GLU:O	17:AR:44:LYS:HB2	2.11	0.49
17:AR:54:ARG:HH21	17:AR:58:MET:CE	2.26	0.49
17:AR:71:GLN:HA	17:AR:75:PRO:CA	2.43	0.49
18:AS:54:GLU:O	18:AS:55:ARG:C	2.50	0.49
18:AS:4:ILE:HG12	18:AS:66:PRO:HA	1.94	0.49
13:AN:110:ASP:HB2	20:AU:88:LYS:CG	2.42	0.49
48:B1:51:GLN:CA	48:B1:54:ARG:HG3	2.43	0.49
49:B2:10:LYS:O	49:B2:11:SER:HB2	2.13	0.49
50:B3:17:GLY:HA3	50:B3:33:VAL:O	2.12	0.49
54:B7:1:MET:N	54:B7:2:PRO:CD	2.71	0.49
24:BA:1053:C:C5	24:BA:1054:A:C5	3.00	0.49
24:BA:1058:G:H2'	24:BA:1059:G:H5''	1.94	0.49
24:BA:1082:U:O5'	24:BA:1082:U:H6	1.94	0.49
24:BA:1107:G:O2'	24:BA:1108:U:H5'	2.12	0.49
24:BA:1042:G:N2	24:BA:1114:G:C2	2.80	0.49
24:BA:1020:A:N3	24:BA:1140:C:C2	2.80	0.49
24:BA:1188:U:C2'	24:BA:1189:A:C5'	2.87	0.49
24:BA:1196:C:H2'	24:BA:1197:G:C8	2.48	0.49
24:BA:1210:A:H4'	24:BA:1211:U:C5'	2.42	0.49
24:BA:1315:C:C2	24:BA:1316:U:C5	3.00	0.49
24:BA:1324:G:H3'	24:BA:1325:G:H4'	1.94	0.49
24:BA:1335:U:O2'	24:BA:1336:A:H5'	2.11	0.49
24:BA:145:G:N2	24:BA:146:G:N3	2.61	0.49
24:BA:1542:G:H8	24:BA:1543:A:N7	2.11	0.49
24:BA:1650:G:HO2'	24:BA:1651:G:P	2.34	0.49
24:BA:1672:C:H2'	24:BA:1673:U:C5'	2.42	0.49
24:BA:1699:G:C8	24:BA:1763:G:C2	3.00	0.49
24:BA:1817:G:P	27:BD:88:ARG:NH2	2.85	0.49
24:BA:1841:U:C2'	24:BA:1842:G:C8	2.78	0.49
24:BA:1903:G:N3	24:BA:1904:G:C8	2.80	0.49
24:BA:1937:A:O2'	24:BA:1938:A:P	2.69	0.49
24:BA:1969:A:O2'	24:BA:1970:A:O4'	2.20	0.49
24:BA:2031:A:C5'	24:BA:2031:A:C8	2.95	0.49
24:BA:528:A:N7	24:BA:2042:A:C6	2.80	0.49
24:BA:2047:U:C2'	24:BA:2048:G:O5'	2.60	0.49
24:BA:2331:G:H2'	24:BA:2332:U:C1'	2.40	0.49
24:BA:2355:C:C4'	47:BZ:36:ILE:HG21	2.41	0.49
24:BA:2392:A:C2	24:BA:2429:G:C5	3.00	0.49
3:AD:76:A:C3'	24:BA:2432:A:C1'	2.90	0.49
24:BA:2708:G:O4'	38:BQ:71:GLN:NE2	2.46	0.49
24:BA:2826:A:O2'	24:BA:2827:C:H5'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2847:U:C4	24:BA:2848:G:N7	2.81	0.49
24:BA:2863:C:H2'	24:BA:2864:G:H8	1.77	0.49
24:BA:300:A:C4	24:BA:334:C:H1'	2.47	0.49
24:BA:326:G:H2'	24:BA:327:G:O4'	2.11	0.49
24:BA:341:G:OP2	24:BA:342:G:OP1	2.31	0.49
24:BA:80:G:O4'	24:BA:347:A:N6	2.45	0.49
24:BA:373:U:C2'	24:BA:374:A:OP2	2.59	0.49
24:BA:263:C:H1'	24:BA:430:G:N3	2.27	0.49
24:BA:564:C:N4	24:BA:578:A:N6	2.57	0.49
24:BA:699:A:H3'	24:BA:699:A:C8	2.48	0.49
24:BA:780:G:C2	24:BA:782:A:N1	2.80	0.49
24:BA:7:G:H2'	24:BA:8:A:H8	1.77	0.49
24:BA:898:C:C5'	24:BA:899:A:OP2	2.60	0.49
24:BA:930:U:C2'	24:BA:931:G:OP2	2.60	0.49
24:BA:954:G:N3	24:BA:2274:A:C2	2.79	0.49
24:BA:960:A:H2'	24:BA:962:G:H8	1.77	0.49
24:BA:974:G:C6	24:BA:974(A):C:N4	2.80	0.49
25:BB:45:A:H2'	25:BB:46:A:O5'	2.12	0.49
25:BB:58:A:C5	25:BB:59:A:N7	2.80	0.49
24:BA:1819:A:H3'	27:BD:178:PRO:HB2	1.94	0.49
28:BE:119:ARG:NH1	28:BE:120:TRP:HB3	2.26	0.49
28:BE:128:SER:HG	28:BE:129:HIS:CD2	2.30	0.49
28:BE:40:GLU:O	28:BE:41:LYS:HD3	2.13	0.49
28:BE:51:PHE:CZ	28:BE:53:PRO:HD3	2.47	0.49
28:BE:59:VAL:HG12	28:BE:60:ASN:N	2.27	0.49
28:BE:58:ARG:NH2	28:BE:73:GLU:OE1	2.45	0.49
29:BF:19:GLU:HA	29:BF:20:LEU:HD22	1.92	0.49
29:BF:34:TRP:CD2	36:BO:8:PRO:HB2	2.47	0.49
30:BG:53:LEU:HD23	30:BG:70:VAL:CA	2.36	0.49
30:BG:53:LEU:CD1	30:BG:53:LEU:N	2.74	0.49
30:BG:77:ILE:O	30:BG:78:SER:O	2.30	0.49
31:BH:15:VAL:HG21	31:BH:76:VAL:CG1	2.41	0.49
31:BH:17:VAL:HG11	31:BH:45:VAL:HG11	1.94	0.49
31:BH:61:HIS:O	31:BH:62:LYS:C	2.50	0.49
31:BH:35:VAL:HB	31:BH:72:ILE:HG23	1.94	0.49
34:BM:54:VAL:C	34:BM:122:VAL:HG23	2.31	0.49
35:BN:103:ALA:HB3	35:BN:107:ARG:CZ	2.41	0.49
35:BN:23:ARG:CG	35:BN:23:ARG:HH11	2.24	0.49
35:BN:63:VAL:CB	35:BN:78:ARG:HG3	2.42	0.49
35:BN:9:GLU:C	35:BN:82:ASN:HB3	2.33	0.49
36:BO:58:THR:HG22	36:BO:60:MET:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:34:TRP:CE3	36:BO:8:PRO:HB2	2.47	0.49
37:BP:130:LYS:HG2	37:BP:131:ILE:N	2.23	0.49
37:BP:6:ARG:HH21	37:BP:9:TYR:H	1.54	0.49
38:BQ:83:ILE:HD13	38:BQ:86:ARG:HE	1.76	0.49
39:BR:38:GLN:O	39:BR:38:GLN:HG3	2.11	0.49
39:BR:23:ARG:NH1	39:BR:42:ASP:CB	2.75	0.49
25:BB:51:G:OP1	39:BR:61:ASN:CA	2.61	0.49
39:BR:58:LEU:HD23	39:BR:62:LYS:CG	2.42	0.49
40:BS:65:LYS:NZ	40:BS:75:ILE:HD13	2.27	0.49
42:BU:27:ALA:CB	42:BU:33:VAL:HG11	2.34	0.49
42:BU:62:LEU:HD13	42:BU:97:LYS:O	2.12	0.49
43:BV:85:VAL:HG12	43:BV:95:ILE:HA	1.93	0.49
24:BA:2013:A:OP1	43:BV:96:ILE:CB	2.60	0.49
44:BW:3:THR:N	44:BW:5:TYR:CE2	2.81	0.49
44:BW:73:ARG:HG2	44:BW:73:ARG:NH1	2.27	0.49
45:BX:75:ILE:CG2	45:BX:100:ALA:CB	2.89	0.49
46:BY:111:VAL:HG22	46:BY:117:LEU:HA	1.93	0.49
46:BY:122:ARG:HG2	46:BY:171:ILE:O	2.11	0.49
46:BY:2:GLU:C	46:BY:3:TYR:CD2	2.85	0.49
24:BA:2602:A:O2'	47:BZ:2:ALA:CB	2.54	0.49
32:BK:69:LYS:NZ	32:BK:70:LYS:HG2	2.26	0.49
32:BK:87:LYS:HE2	32:BK:122:GLU:CG	2.39	0.49
3:AD:21:A:O2'	3:AD:22:G:O4'	2.28	0.49
26:BC:111:ASP:CA	26:BC:136:LEU:HD22	2.20	0.49
26:BC:142:ALA:O	26:BC:144:THR:N	2.46	0.49
26:BC:41:VAL:HG13	26:BC:215:THR:O	2.13	0.49
24:BA:2129:C:P	26:BC:6:ARG:HG3	2.52	0.49
26:BC:73:ARG:HB3	26:BC:93:TYR:HE2	1.76	0.49
24:BA:1498:C:C6	24:BA:1576:U:C4'	2.75	0.49
27:BD:273:ARG:NE	27:BD:273:ARG:C	2.66	0.49
5:AF:79:ARG:O	5:AF:79:ARG:CG	2.60	0.49
1:AA:1055:A:H2'	1:AA:1055:A:N3	2.26	0.49
1:AA:1324:A:C6	1:AA:1325:C:C5	3.01	0.49
1:AA:1501:C:OP1	1:AA:1508:G:H4'	2.12	0.49
1:AA:68:G:O4'	1:AA:171:A:H1'	2.12	0.49
1:AA:427:U:H6	1:AA:427:U:O5'	1.94	0.49
1:AA:414:A:OP2	1:AA:428:G:N2	2.46	0.49
1:AA:551:U:C4'	14:AO:119:LYS:HZ3	2.26	0.49
1:AA:936:C:C2'	1:AA:937:A:H5'	2.42	0.49
1:AA:937:A:N6	1:AA:938:A:N6	2.57	0.49
1:AA:991:U:O2'	1:AA:993:G:H1'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:5:G:O2'	2:AC:6:G:O5'	2.30	0.49
3:AD:34:G:N2	3:AD:35:A:H5''	2.27	0.49
3:AD:7:G:C2	3:AD:49:G:H1'	2.47	0.49
4:AE:107:THR:O	4:AE:108:ILE:C	2.51	0.49
4:AE:144:ARG:HA	4:AE:147:LYS:CB	2.43	0.49
4:AE:192:SER:C	4:AE:194:PRO:HD3	2.33	0.49
4:AE:192:SER:O	4:AE:194:PRO:HD3	2.13	0.49
4:AE:61:LEU:HD11	4:AE:68:ILE:HD13	1.94	0.49
5:AF:84:ILE:CD1	5:AF:101:LEU:HD22	2.42	0.49
5:AF:15:THR:HG21	5:AF:181:ASN:CG	2.31	0.49
5:AF:190:ARG:HB3	5:AF:190:ARG:CZ	2.41	0.49
5:AF:8:ILE:HG23	5:AF:9:GLY:N	2.27	0.49
1:AA:407:G:O2'	6:AG:116:GLN:HG2	2.11	0.49
6:AG:57:ARG:HB3	6:AG:206:PHE:CB	2.35	0.49
7:AH:40:ARG:CA	7:AH:68:GLU:OE1	2.60	0.49
8:AI:11:ASN:OD1	8:AI:14:LEU:N	2.45	0.49
9:AJ:26:PHE:CZ	9:AJ:30:ILE:CG1	2.95	0.49
9:AJ:51:GLN:OE1	9:AJ:58:PRO:CD	2.61	0.49
10:AK:114:THR:HB	10:AK:130:GLY:O	2.11	0.49
11:AL:33:PHE:HE2	11:AL:37:PHE:CE1	2.30	0.49
13:AN:32:ILE:HD11	13:AN:68:ALA:O	2.12	0.49
13:AN:85:ARG:HD2	13:AN:113:PRO:HD2	1.93	0.49
14:AO:100:ILE:O	14:AO:101:VAL:HG13	2.13	0.49
14:AO:85:ILE:CD1	14:AO:87:GLY:N	2.75	0.49
1:AA:1228:C:C4'	15:AP:116:THR:HA	2.42	0.49
1:AA:255:G:O2'	19:AT:16:GLN:NE2	2.44	0.49
19:AT:38:ARG:HG3	19:AT:39:SER:N	2.24	0.49
1:AA:277:C:C5'	19:AT:68:ARG:HH12	2.26	0.49
20:AU:51:LEU:O	20:AU:56:THR:CG2	2.60	0.49
20:AU:62:GLU:C	20:AU:66:LEU:CD2	2.81	0.49
20:AU:70:ILE:HG22	20:AU:74:ARG:HE	1.76	0.49
21:AV:16:LEU:CD1	21:AV:16:LEU:N	2.71	0.49
48:B1:1:MET:HE3	48:B1:3:LYS:HB3	1.94	0.49
48:B1:56:LEU:O	48:B1:57:THR:C	2.50	0.49
24:BA:111:A:H4'	48:B1:60:ASN:HD21	1.77	0.49
54:B7:1:MET:HB2	54:B7:2:PRO:HD3	1.94	0.49
54:B7:3:LYS:O	54:B7:4:MET:CB	2.53	0.49
24:BA:2539:C:O4'	55:B8:2:LYS:HD2	2.12	0.49
24:BA:1034:G:C6	24:BA:1035:U:C4	3.00	0.49
24:BA:1128:A:N7	24:BA:2518:A:C6	2.80	0.49
24:BA:1138:G:H2'	24:BA:1139:G:H5'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1143:A:C2'	24:BA:1144:G:C8	2.95	0.49
24:BA:1188:U:O2	24:BA:1189:A:C8	2.66	0.49
24:BA:1341:U:O4	24:BA:1395:A:C2	2.64	0.49
24:BA:1360:A:N7	24:BA:1361:G:C5	2.80	0.49
24:BA:1451:C:C4'	24:BA:1451:C:OP2	2.60	0.49
24:BA:1468:C:O2'	24:BA:1469:A:O4'	2.22	0.49
24:BA:1662:C:H2'	24:BA:1663:C:C5	2.45	0.49
24:BA:1711:C:C2	24:BA:1712:C:C5	3.00	0.49
24:BA:1850:G:H2'	24:BA:1851:U:O4'	2.12	0.49
24:BA:1969:A:H5'	24:BA:1970:A:OP1	2.12	0.49
24:BA:1975:G:C2'	24:BA:1976:U:C5'	2.91	0.49
24:BA:1995:U:C6	24:BA:1995:U:C3'	2.96	0.49
24:BA:578:A:N3	24:BA:2018:G:O4'	2.45	0.49
24:BA:2031:A:H61	24:BA:2498:C:H1'	1.76	0.49
24:BA:2093:G:C4'	32:BK:29:TYR:CD2	2.96	0.49
24:BA:2209:C:OP1	27:BD:151:LYS:HG2	2.13	0.49
24:BA:2215:G:H2'	24:BA:2216:G:C8	2.46	0.49
24:BA:2232:U:N3	24:BA:2233:U:H5	2.08	0.49
24:BA:2259:G:H5'	24:BA:2427:C:C3'	2.41	0.49
24:BA:1864:U:H5''	24:BA:2410:G:O2'	2.13	0.49
24:BA:248:G:N2	24:BA:2431:U:H5'	2.27	0.49
24:BA:2468:G:H3'	24:BA:2476:A:C2	2.47	0.49
24:BA:2521:C:C4	24:BA:2522:U:C5	2.99	0.49
24:BA:2561:A:C2'	24:BA:2562:U:O5'	2.60	0.49
24:BA:2581:G:N2	24:BA:2610:C:C2	2.81	0.49
24:BA:2631:G:H4'	24:BA:2892:A:O4'	2.12	0.49
24:BA:2642:G:N3	24:BA:2643:G:C8	2.80	0.49
24:BA:2657:A:N1	24:BA:2665:A:C8	2.81	0.49
24:BA:2712:U:O2'	24:BA:2712(A):A:O5'	2.29	0.49
24:BA:297:C:C2	24:BA:298:G:H1'	2.47	0.49
24:BA:303:U:C2	24:BA:304:G:C8	3.00	0.49
24:BA:364:C:H2'	24:BA:365:C:H5	1.68	0.49
24:BA:508:G:H4'	24:BA:509:C:O5'	2.13	0.49
24:BA:586:A:H2	24:BA:809:G:N2	2.10	0.49
24:BA:650:C:H2'	24:BA:651:G:H5'	1.94	0.49
24:BA:866:A:N6	24:BA:913:U:O3'	2.35	0.49
25:BB:101:A:O2'	25:BB:102:G:H5'	2.12	0.49
27:BD:143:HIS:HE1	27:BD:193:VAL:O	1.96	0.49
27:BD:5:LYS:NZ	27:BD:31:LYS:NZ	2.61	0.49
28:BE:151:TYR:CE2	28:BE:152:LYS:HG3	2.47	0.49
28:BE:42:ASP:O	28:BE:44:TYR:N	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:47:VAL:HG22	28:BE:79:ARG:HB2	1.95	0.49
29:BF:64:ILE:CD1	29:BF:64:ILE:N	2.76	0.49
30:BG:36:LYS:NZ	30:BG:160:VAL:HG21	2.27	0.49
30:BG:30:GLU:OE1	30:BG:33:ARG:CG	2.60	0.49
30:BG:33:ARG:HH12	30:BG:35:GLU:CB	2.24	0.49
31:BH:25:LYS:HG2	31:BH:27:LYS:HG3	1.93	0.49
33:BL:109:LYS:HA	33:BL:112:MET:HG3	1.94	0.49
24:BA:557:U:O3'	34:BM:112:LEU:HG	2.11	0.49
34:BM:85:ILE:HG23	34:BM:89:LYS:CG	2.42	0.49
35:BN:86:ILE:HG22	35:BN:87:ILE:N	2.26	0.49
36:BO:50:ARG:NH2	54:B7:8:LYS:HG3	2.27	0.49
37:BP:104:PHE:O	37:BP:105:GLU:OE1	2.29	0.49
37:BP:65:PHE:CA	37:BP:105:GLU:OE2	2.60	0.49
37:BP:16:ARG:O	37:BP:17:LEU:CG	2.59	0.49
37:BP:22:LYS:CA	37:BP:99:PRO:HG3	2.42	0.49
38:BQ:39:PRO:O	38:BQ:41:ALA:N	2.45	0.49
38:BQ:67:LEU:C	38:BQ:69:ASP:N	2.61	0.49
39:BR:106:ARG:NH2	39:BR:112:PHE:CD1	2.80	0.49
39:BR:42:ASP:O	39:BR:46:VAL:CG2	2.61	0.49
39:BR:58:LEU:N	39:BR:65:VAL:HG23	2.27	0.49
40:BS:67:SER:HA	40:BS:75:ILE:HG23	1.94	0.49
41:BT:25:TRP:O	41:BT:26:GLY:C	2.49	0.49
42:BU:88:ARG:CZ	42:BU:88:ARG:CB	2.90	0.49
43:BV:33:ARG:HH12	43:BV:37:ARG:H	1.61	0.49
43:BV:36:LEU:CD1	43:BV:47:VAL:HG23	2.41	0.49
24:BA:494:G:C4'	43:BV:6:ILE:O	2.47	0.49
44:BW:96:ILE:OXT	44:BW:96:ILE:HG12	2.13	0.49
45:BX:1:MET:HG3	45:BX:67:LEU:HD22	1.93	0.49
45:BX:38:ILE:O	45:BX:39:VAL:HG22	2.13	0.49
46:BY:95:PRO:HB2	46:BY:131:ARG:H	1.77	0.49
46:BY:141:VAL:CG1	46:BY:150:LEU:HD11	2.43	0.49
46:BY:95:PRO:HG2	46:BY:131:ARG:CA	2.42	0.49
47:BZ:50:ASN:CB	47:BZ:81:VAL:HB	2.41	0.49
3:AD:47:U:N3	3:AD:50:G:P	2.85	0.49
24:BA:2148:G:O2'	24:BA:2149:G:O5'	2.31	0.49
26:BC:76:ALA:HB1	26:BC:149:ILE:CD1	2.40	0.49
26:BC:58:VAL:HG12	26:BC:59:ARG:H	1.77	0.49
26:BC:61:THR:OG1	26:BC:62:VAL:N	2.37	0.49
24:BA:2107:C:H2'	24:BA:2108:C:O4'	2.13	0.49
1:AA:208:U:H2'	1:AA:208:U:O2	2.11	0.49
24:BA:2462:U:N3	24:BA:2463:C:C5	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:52:G:C6	2:AC:53:G:C5	3.00	0.49
1:AA:1070:U:O2	1:AA:1070:U:H2'	2.12	0.49
1:AA:1250:A:H4'	11:AL:68:GLY:N	2.27	0.49
1:AA:124:G:C6	1:AA:125:U:C2	3.00	0.49
1:AA:1386:G:C2'	1:AA:1387:G:O5'	2.60	0.49
1:AA:1401:G:H2'	1:AA:1402:C:C4'	2.43	0.49
1:AA:1431:C:C2'	1:AA:1432:G:C5'	2.91	0.49
1:AA:1530:G:N1	1:AA:1531:A:N3	2.60	0.49
1:AA:241:C:N3	1:AA:242:C:C5	2.81	0.49
1:AA:259:G:H3'	22:AW:83:ARG:NH2	2.28	0.49
1:AA:258:G:O6	1:AA:259:G:O6	2.30	0.49
1:AA:306:G:C4	1:AA:307:C:C5	3.01	0.49
1:AA:328:C:HO2'	1:AA:329:A:P	2.35	0.49
1:AA:510:A:N3	1:AA:543:C:H1'	2.28	0.49
1:AA:593:G:C6	1:AA:594:G:C5	3.00	0.49
1:AA:673:G:C2'	1:AA:674:G:C8	2.94	0.49
1:AA:813:U:H5''	1:AA:814:A:OP2	2.12	0.49
1:AA:825:G:C4	1:AA:876:G:N2	2.80	0.49
1:AA:860:A:N6	1:AA:861:G:C2	2.79	0.49
1:AA:865:A:C5'	1:AA:1078:U:O4	2.57	0.49
1:AA:898:G:C6	1:AA:902:G:O6	2.66	0.49
2:AC:70:G:N2	2:AC:71:C:C2	2.80	0.49
2:AC:8:U:C1'	2:AC:48:C:O2'	2.59	0.49
3:AD:5:A:N6	3:AD:69:C:N4	2.60	0.49
4:AE:23:ARG:O	4:AE:24:TRP:CD1	2.66	0.49
4:AE:95:GLN:CB	4:AE:148:TYR:HB3	2.43	0.49
6:AG:98:GLU:HG2	6:AG:189:PRO:HG3	1.94	0.49
6:AG:83:SER:CA	6:AG:89:THR:CG2	2.91	0.49
8:AI:11:ASN:OD1	8:AI:13:ASN:N	2.45	0.49
1:AA:737:A:C3'	8:AI:92:LYS:NZ	2.69	0.49
9:AJ:65:ALA:N	9:AJ:128:ALA:CA	2.76	0.49
10:AK:109:ILE:HG12	10:AK:109:ILE:O	2.11	0.49
10:AK:92:ARG:CG	10:AK:92:ARG:HH11	2.24	0.49
11:AL:32:ASP:N	11:AL:35:GLU:OE2	2.42	0.49
13:AN:18:ARG:HB2	13:AN:33:THR:OG1	2.13	0.49
14:AO:71:PRO:HD2	14:AO:100:ILE:HG12	1.94	0.49
14:AO:48:PRO:HG2	14:AO:49:ASN:H	1.77	0.49
14:AO:82:VAL:O	14:AO:83:VAL:CB	2.59	0.49
15:AP:120:LYS:O	15:AP:121:LYS:CB	2.58	0.49
1:AA:1216:G:OP1	16:AQ:3:ARG:CZ	2.60	0.49
20:AU:74:ARG:HA	20:AU:79:LEU:CD2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:63:THR:HG22	21:AV:64:GLU:N	2.26	0.49
22:AW:60:GLU:O	22:AW:63:ILE:HB	2.13	0.49
22:AW:84:LEU:HD13	22:AW:84:LEU:C	2.32	0.49
50:B3:58:ARG:HB2	50:B3:59:PHE:CZ	2.47	0.49
24:BA:1025:G:H8	24:BA:1134:G:C1'	2.25	0.49
24:BA:1277:G:O2'	38:BQ:24:GLN:HG2	2.13	0.49
24:BA:1280:G:C2'	24:BA:1281:G:H5'	2.41	0.49
24:BA:1407:C:H2'	24:BA:1408:C:H6	1.78	0.49
24:BA:1410:G:C6	24:BA:1411:C:C4	3.00	0.49
24:BA:1457:A:O2'	24:BA:1459:G:H8	1.94	0.49
24:BA:1560:G:C2'	24:BA:1561:G:O5'	2.61	0.49
24:BA:1332:G:C6	24:BA:1609:A:N6	2.81	0.49
24:BA:1628:G:H2'	24:BA:1629:U:C6	2.47	0.49
24:BA:1727:U:H2'	24:BA:1728:G:OP1	2.12	0.49
24:BA:1869:G:H2'	24:BA:1871:A:OP2	2.11	0.49
24:BA:1884:A:OP2	24:BA:1884:A:O4'	2.31	0.49
24:BA:1946:U:H2'	24:BA:1947:C:H6	1.76	0.49
24:BA:1996:C:C3'	24:BA:1996:C:C6	2.95	0.49
24:BA:2209:C:H1'	27:BD:150:LYS:HZ1	1.75	0.49
24:BA:2414:G:C6	24:BA:2415:G:N7	2.80	0.49
24:BA:2416:C:C2'	24:BA:2417:C:O5'	2.61	0.49
24:BA:2259:G:O4'	24:BA:2427:C:C5	2.65	0.49
24:BA:197:A:C6	24:BA:2430:A:N7	2.80	0.49
24:BA:2466:C:H5'	55:B8:5:ALA:HB3	1.93	0.49
24:BA:247:G:H4'	24:BA:386:G:N3	2.27	0.49
24:BA:248:G:N3	24:BA:2431:U:C5'	2.75	0.49
24:BA:2495:G:C5	24:BA:2496:C:C5	3.00	0.49
24:BA:2521:C:C3'	24:BA:2522:U:H5''	2.39	0.49
24:BA:2627:G:C5	24:BA:2777:G:O6	2.65	0.49
24:BA:2636:U:C5'	24:BA:2636:U:H6	2.25	0.49
24:BA:2757:A:H2'	24:BA:2758:A:C5'	2.43	0.49
24:BA:2781:A:C2'	24:BA:2782:G:H4'	2.43	0.49
24:BA:2636:U:C1'	24:BA:2783:G:H22	2.16	0.49
24:BA:2821:A:H4'	28:BE:162:ALA:CB	2.41	0.49
24:BA:2811:G:C6	24:BA:2891:G:C2	3.00	0.49
24:BA:311:A:H1'	24:BA:332:A:C4	2.47	0.49
24:BA:413:C:N4	24:BA:2410:G:H1	2.09	0.49
24:BA:564:C:C2'	24:BA:565:C:O5'	2.60	0.49
24:BA:596:G:N3	24:BA:596:G:H2'	2.28	0.49
24:BA:714:U:O2	24:BA:715:G:C8	2.65	0.49
24:BA:724:U:H2'	24:BA:725:G:C5'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:751:A:H3'	24:BA:751:A:C8	2.48	0.49
24:BA:816:C:H2'	24:BA:817:C:H5'	1.89	0.49
24:BA:900:A:H8	24:BA:901:A:C8	2.27	0.49
24:BA:917:A:C2	24:BA:918:A:N1	2.80	0.49
24:BA:924:C:N4	24:BA:925:C:H41	2.11	0.49
24:BA:973:A:C8	24:BA:973:A:C3'	2.93	0.49
25:BB:47:C:C2'	25:BB:48:A:H5'	2.31	0.49
25:BB:48:A:O3'	39:BR:95:HIS:CE1	2.66	0.49
25:BB:6:C:H2'	25:BB:7:G:O4'	2.12	0.49
27:BD:146:GLU:HG2	27:BD:154:LYS:CE	2.36	0.49
27:BD:148:GLU:H	27:BD:186:HIS:CE1	2.30	0.49
27:BD:80:ALA:O	27:BD:81:ALA:HB2	2.12	0.49
27:BD:84:TYR:CG	27:BD:91:ARG:HG3	2.48	0.49
29:BF:205:ARG:O	29:BF:206:ILE:C	2.51	0.49
29:BF:41:LEU:C	29:BF:41:LEU:HD12	2.33	0.49
30:BG:144:ILE:CG2	30:BG:145:THR:H	2.24	0.49
30:BG:26:GLN:HB3	30:BG:31:VAL:HG11	1.93	0.49
30:BG:56:ALA:HA	30:BG:59:GLU:CD	2.32	0.49
30:BG:68:PRO:CG	30:BG:72:ARG:NH1	2.61	0.49
30:BG:49:ASP:HB3	30:BG:70:VAL:CG1	2.43	0.49
31:BH:29:PRO:CD	31:BH:79:VAL:O	2.58	0.49
31:BH:45:VAL:CG2	31:BH:50:VAL:HG12	2.27	0.49
31:BH:66:GLY:O	31:BH:70:THR:HG23	2.12	0.49
31:BH:83:TYR:CE1	31:BH:138:LYS:HA	2.47	0.49
32:BK:21:VAL:HB	32:BK:26:ALA:CA	2.42	0.49
33:BL:103:GLN:NE2	33:BL:107:ILE:HG13	2.27	0.49
33:BL:19:PRO:HD2	33:BL:23:VAL:HB	1.94	0.49
34:BM:87:LEU:CA	34:BM:90:MET:HB2	2.42	0.49
35:BN:25:LEU:CD2	35:BN:26:LYS:H	2.17	0.49
36:BO:78:PRO:CG	36:BO:117:GLU:OE1	2.59	0.49
37:BP:82:ARG:HG2	37:BP:83:MET:CE	2.42	0.49
24:BA:2839:G:H4'	38:BQ:49:ASP:HB3	1.94	0.49
39:BR:18:ILE:CD1	39:BR:18:ILE:N	2.73	0.49
39:BR:36:TYR:OH	39:BR:50:SER:CB	2.55	0.49
39:BR:65:VAL:CG1	39:BR:66:ALA:N	2.76	0.49
40:BS:53:ARG:NE	40:BS:53:ARG:CA	2.66	0.49
40:BS:64:ARG:NE	40:BS:77:PRO:CB	2.76	0.49
24:BA:445:C:H5''	41:BT:3:ARG:CG	2.43	0.49
24:BA:1152:C:H4'	41:BT:80:ILE:HD12	1.94	0.49
42:BU:61:VAL:O	42:BU:62:LEU:HD23	2.12	0.49
44:BW:43:VAL:CG1	44:BW:49:VAL:HG21	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:26:TYR:CE1	44:BW:89:ILE:HD12	2.47	0.49
45:BX:49:VAL:HG23	45:BX:51:VAL:N	2.27	0.49
45:BX:81:LYS:CE	45:BX:96:ILE:HG12	2.42	0.49
46:BY:24:LEU:CG	46:BY:25:PRO:HD2	2.42	0.49
46:BY:39:VAL:CA	46:BY:44:PHE:CZ	2.87	0.49
32:BK:68:LEU:HD22	32:BK:72:LEU:CG	2.42	0.49
3:AD:65:U:O5'	3:AD:65:U:H6	1.96	0.49
24:BA:2128:C:H5''	26:BC:218:MET:CE	2.42	0.49
24:BA:2132:U:O2	24:BA:2132:U:C3'	2.60	0.49
24:BA:2111:C:C2	24:BA:2145:C:N3	2.80	0.49
26:BC:78:ALA:HB1	26:BC:118:ASP:OD1	2.12	0.49
26:BC:149:ILE:HG23	26:BC:150:GLY:N	2.28	0.49
26:BC:225:ASN:C	26:BC:227:HIS:N	2.63	0.49
26:BC:64:LEU:HB2	26:BC:188:ASN:ND2	2.27	0.49
24:BA:1418:G:OP1	24:BA:1588:C:O4'	2.30	0.49
5:AF:157:ILE:CD1	5:AF:164:ARG:CG	2.90	0.49
24:BA:363(C):G:H2'	24:BA:363(D):G:O5'	2.13	0.49
1:AA:60:A:H62	1:AA:110:C:N4	2.10	0.49
1:AA:1131:G:C8	1:AA:1131:G:H3'	2.47	0.49
1:AA:1188:A:OP2	1:AA:1188:A:C8	2.66	0.49
1:AA:975:A:H62	1:AA:1366:C:H1'	1.77	0.49
1:AA:1474:G:C6	1:AA:1475:G:N7	2.81	0.49
1:AA:378:G:C4	1:AA:379:C:C5	3.00	0.49
1:AA:497:U:O2	1:AA:498:A:C8	2.66	0.49
1:AA:528:C:O4'	1:AA:535:A:C6	2.66	0.49
1:AA:564:C:C4	1:AA:565:U:C4	3.00	0.49
1:AA:685:G:H4'	13:AN:40:ILE:HA	1.95	0.49
1:AA:731:G:OP1	1:AA:766:A:H1'	2.12	0.49
1:AA:734:G:H2'	1:AA:735:C:C5	2.44	0.49
1:AA:756:C:O2'	1:AA:757:U:H5'	2.12	0.49
1:AA:87:A:H62	1:AA:88:C:N4	2.11	0.49
1:AA:907:A:C2'	1:AA:908:A:C8	2.88	0.49
1:AA:954:G:C5	1:AA:955:U:C5	3.01	0.49
2:AC:74:C:N4	47:BZ:4:LYS:HZ2	2.09	0.49
3:AD:3:C:C2	3:AD:4:G:N7	2.81	0.49
3:AD:73:A:N3	3:AD:74:C:H5'	2.28	0.49
4:AE:117:GLU:O	4:AE:120:ALA:HB3	2.12	0.49
4:AE:12:GLU:C	4:AE:14:GLY:N	2.64	0.49
4:AE:77:ALA:CB	4:AE:211:ILE:HG21	2.43	0.49
4:AE:71:VAL:CG2	4:AE:93:VAL:HB	2.43	0.49
5:AF:34:LEU:CD2	5:AF:35:GLU:N	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:78:GLY:CA	5:AF:82:GLU:OE1	2.60	0.49
6:AG:154:ASN:H	6:AG:154:ASN:HD22	1.61	0.49
6:AG:156:GLU:OE1	6:AG:157:LEU:HD23	2.12	0.49
6:AG:144:ASP:HA	6:AG:184:LYS:CE	2.42	0.49
6:AG:20:TYR:N	6:AG:20:TYR:HD1	2.11	0.49
6:AG:88:VAL:O	6:AG:92:VAL:HG23	2.12	0.49
9:AJ:63:LYS:CA	9:AJ:63:LYS:HE2	2.43	0.49
10:AK:25:ASP:CB	10:AK:58:TYR:CD2	2.95	0.49
10:AK:62:TYR:O	10:AK:63:LEU:O	2.31	0.49
15:AP:13:LYS:HA	15:AP:44:ARG:CZ	2.43	0.49
18:AS:40:ASP:O	18:AS:40:ASP:CG	2.51	0.49
18:AS:62:VAL:O	18:AS:64:ALA:N	2.45	0.49
19:AT:43:LEU:HD11	19:AT:69:LYS:HE2	1.93	0.49
20:AU:31:LEU:H	20:AU:31:LEU:HD12	1.77	0.49
20:AU:43:PHE:HD2	20:AU:56:THR:HG22	1.77	0.49
48:B1:12:SER:O	48:B1:13:PRO:O	2.30	0.49
48:B1:13:PRO:C	48:B1:17:GLU:OE2	2.51	0.49
49:B2:48:GLU:CG	49:B2:49:LYS:N	2.76	0.49
50:B3:64:GLY:O	50:B3:65:ASP:C	2.49	0.49
24:BA:126:A:P	53:B6:17:GLY:HA3	2.52	0.49
54:B7:40:GLU:C	54:B7:42:ARG:N	2.66	0.49
54:B7:26:LYS:HD2	54:B7:44:LYS:CA	2.43	0.49
24:BA:1044:G:C6	24:BA:1048:A:C5	3.00	0.49
24:BA:1050:A:C2	24:BA:2751:G:H5'	2.48	0.49
24:BA:1072:C:N4	24:BA:1100:C:H41	2.09	0.49
24:BA:1156:A:P	41:BT:55:ARG:NH2	2.83	0.49
24:BA:1204:A:H4'	24:BA:1205:U:OP2	2.12	0.49
24:BA:1359:A:H3'	24:BA:1359:A:C8	2.48	0.49
24:BA:1470:G:C8	24:BA:1470:G:C3'	2.95	0.49
24:BA:1515:C:H3'	24:BA:1515:C:C6	2.47	0.49
24:BA:1521:G:P	24:BA:1522:G:OP2	2.71	0.49
24:BA:1682:G:OP2	24:BA:1683:C:OP2	2.30	0.49
24:BA:1712:C:H3'	24:BA:1716:U:C6	2.48	0.49
24:BA:1853:A:H1'	24:BA:2234:G:H5'	1.95	0.49
24:BA:1940:U:OP1	24:BA:1940:U:H6	1.95	0.49
24:BA:1941:C:O2	24:BA:1941:C:H2'	2.12	0.49
24:BA:2052:G:C4	28:BE:150:VAL:CG2	2.93	0.49
24:BA:2075:U:C2	24:BA:2077:A:OP2	2.65	0.49
24:BA:2336:A:HO2'	24:BA:2337:G:P	2.32	0.49
24:BA:2344:U:O2	24:BA:2344:U:C3'	2.60	0.49
24:BA:2361:A:N3	24:BA:2361:A:H2'	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2450:A:HO2'	24:BA:2451:A:P	2.35	0.49
24:BA:2031:A:N6	24:BA:2498:C:C1'	2.70	0.49
24:BA:2512:C:O5'	24:BA:2512:C:H6	1.95	0.49
24:BA:2581:G:N1	24:BA:2610:C:C5	2.80	0.49
24:BA:2617:C:C4	24:BA:2618:G:N7	2.81	0.49
24:BA:2655:G:H2'	24:BA:2656:U:OP2	2.11	0.49
24:BA:2773:C:N3	24:BA:2774:C:C5	2.80	0.49
24:BA:296:C:O2'	24:BA:297:C:C5'	2.61	0.49
24:BA:345:A:H4'	24:BA:345:A:OP1	2.12	0.49
24:BA:423:A:P	24:BA:423:A:H3'	2.53	0.49
24:BA:531:C:N3	24:BA:532:A:H1'	2.28	0.49
24:BA:573:G:O2'	24:BA:574:C:P	2.69	0.49
24:BA:627:A:P	24:BA:637:A:N6	2.85	0.49
24:BA:640:C:C3'	24:BA:641:C:H5'	2.41	0.49
24:BA:603:A:OP2	24:BA:655:A:N1	2.46	0.49
24:BA:714:U:C6	24:BA:714:U:H5''	2.46	0.49
24:BA:749:C:H3'	24:BA:749:C:H6	1.77	0.49
24:BA:768:G:O2'	24:BA:769:G:H5'	2.13	0.49
24:BA:771:G:C6	24:BA:772:C:N4	2.80	0.49
24:BA:848:G:H21	24:BA:933:A:C1'	2.25	0.49
25:BB:40:U:C4	25:BB:43:C:OP1	2.66	0.49
25:BB:6:C:H5'	25:BB:27:C:O2	2.12	0.49
25:BB:80:U:C2	25:BB:81:G:N7	2.80	0.49
27:BD:220:HIS:O	27:BD:221:VAL:CB	2.61	0.49
27:BD:226:MET:CE	27:BD:226:MET:HA	2.42	0.49
27:BD:246:PRO:HB2	27:BD:250:TRP:HD1	1.76	0.49
27:BD:258:LYS:HB2	27:BD:264:LYS:HZ3	1.76	0.49
27:BD:35:LYS:HB2	27:BD:36:PRO:HD3	1.94	0.49
29:BF:177:ALA:N	29:BF:178:PRO:CD	2.76	0.49
29:BF:184:TYR:C	29:BF:186:ILE:N	2.64	0.49
29:BF:5:ALA:O	29:BF:6:VAL:HG22	2.11	0.49
30:BG:148:MET:O	30:BG:150:ASP:N	2.46	0.49
30:BG:41:GLN:HG3	30:BG:155:MET:CA	2.41	0.49
31:BH:42:ARG:CZ	31:BH:42:ARG:HA	2.43	0.49
32:BK:22:LYS:HB3	32:BK:23:PRO:CD	2.40	0.49
32:BK:32:PRO:CG	32:BK:33:ARG:HG2	2.43	0.49
33:BL:112:MET:CE	33:BL:118:THR:HB	2.42	0.49
33:BL:132:ARG:HH21	33:BL:138:VAL:HG21	1.76	0.49
35:BN:16:ALA:HB2	35:BN:45:GLU:O	2.12	0.49
35:BN:79:PHE:HD1	40:BS:73:GLU:CD	2.15	0.49
36:BO:108:LYS:HZ2	36:BO:109:GLY:HA3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:114:ILE:HD12	36:BO:114:ILE:N	2.28	0.49
36:BO:29:LYS:HB3	36:BO:29:LYS:NZ	2.28	0.49
24:BA:2406:U:O4	36:BO:65:ARG:HB3	2.08	0.49
37:BP:130:LYS:HE3	37:BP:131:ILE:O	2.13	0.49
37:BP:88:GLY:O	37:BP:89:ASN:HB2	2.12	0.49
40:BS:34:VAL:HG11	40:BS:36:GLU:OE2	2.12	0.49
34:BM:4:TYR:CE2	41:BT:100:VAL:HG23	2.47	0.49
41:BT:52:ARG:NH1	41:BT:53:ARG:HA	2.23	0.49
41:BT:92:ARG:HA	41:BT:95:LEU:CD1	2.41	0.49
42:BU:89:GLN:HG2	42:BU:91:TYR:CE1	2.48	0.49
43:BV:58:ALA:O	43:BV:62:HIS:C	2.51	0.49
44:BW:12:VAL:HG11	44:BW:17:ALA:CB	2.43	0.49
44:BW:49:VAL:HA	44:BW:88:LYS:CG	2.41	0.49
45:BX:37:VAL:HG22	45:BX:37:VAL:O	2.13	0.49
45:BX:8:LYS:HZ2	45:BX:28:LYS:HG2	1.77	0.49
45:BX:97:ARG:NH1	45:BX:101:LYS:CG	2.76	0.49
46:BY:57:ILE:C	46:BY:58:VAL:HG22	2.32	0.49
46:BY:7:ALA:O	46:BY:8:TYR:CD1	2.65	0.49
26:BC:6:ARG:CD	26:BC:6:ARG:C	2.69	0.49
26:BC:77:ILE:HG21	26:BC:123:VAL:HG11	1.94	0.49
1:AA:1005:A:C3'	1:AA:1006:C:H6	2.08	0.49
1:AA:160:A:C1'	1:AA:344:A:N7	2.72	0.49
25:BB:-1:A:N7	25:BB:0:A:C8	2.81	0.49
1:AA:1086:U:H6	1:AA:1086:U:H5'	1.77	0.49
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.47	0.49
1:AA:1014:A:C2	1:AA:1219:U:H1'	2.48	0.49
1:AA:1242:C:P	23:AX:10:ARG:HH12	2.35	0.49
1:AA:1338:G:C6	1:AA:1339:A:N6	2.80	0.49
1:AA:1388:C:C2	1:AA:1389:C:C5	3.00	0.49
1:AA:181:G:N2	1:AA:183:G:C2	2.81	0.49
1:AA:21:G:N7	1:AA:22:G:N7	2.61	0.49
1:AA:296:U:O2	1:AA:302:G:C2	2.66	0.49
1:AA:445:G:O2'	1:AA:446:G:H5'	2.12	0.49
1:AA:517:G:H5''	1:AA:518:C:OP1	2.12	0.49
1:AA:591:U:OP2	1:AA:591:U:C6	2.65	0.49
1:AA:687:A:O2'	1:AA:688:G:O4'	2.31	0.49
1:AA:717:C:C2'	1:AA:718:G:OP2	2.60	0.49
1:AA:718:G:C5	13:AN:116:HIS:NE2	2.81	0.49
1:AA:579:G:H5'	1:AA:728:A:H1'	1.95	0.49
1:AA:775:G:N3	1:AA:776:G:C8	2.80	0.49
1:AA:797:C:C2	1:AA:798:G:C8	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:815:A:H1'	1:AA:817:C:N4	2.27	0.49
1:AA:819:A:C4'	1:AA:820:U:OP2	2.59	0.49
1:AA:858:G:N2	1:AA:870:U:OP2	2.45	0.49
1:AA:937:A:N3	1:AA:1379:G:N1	2.59	0.49
1:AA:940:C:O2'	1:AA:941:G:H5'	2.12	0.49
1:AA:947:G:C2	1:AA:948:C:C2	3.00	0.49
1:AA:961:U:C6	1:AA:983:A:N1	2.80	0.49
3:AD:2:C:N4	3:AD:3:C:N4	2.60	0.49
3:AD:68:U:H2'	3:AD:69:C:H6	1.78	0.49
5:AF:59:ARG:HG3	5:AF:61:ALA:O	2.11	0.49
5:AF:76:VAL:HG11	5:AF:103:VAL:CG1	2.43	0.49
6:AG:65:ARG:NE	6:AG:72:GLU:N	2.53	0.49
8:AI:61:LEU:HD13	8:AI:63:TYR:OH	2.13	0.49
9:AJ:120:ILE:O	9:AJ:124:LEU:HB2	2.13	0.49
9:AJ:136:LYS:C	9:AJ:138:LYS:N	2.64	0.49
10:AK:36:LEU:HG	10:AK:37:ARG:N	2.28	0.49
10:AK:63:LEU:N	10:AK:63:LEU:HD22	2.28	0.49
11:AL:97:LYS:HZ3	11:AL:102:LEU:HD22	1.76	0.49
14:AO:18:VAL:O	14:AO:19:ARG:CB	2.60	0.49
15:AP:15:VAL:HG12	15:AP:19:LEU:HD23	1.93	0.49
15:AP:16:ASP:CA	15:AP:19:LEU:HG	2.42	0.49
15:AP:7:VAL:HG11	30:BG:140:ILE:HD12	1.95	0.49
17:AR:48:LYS:HB3	17:AR:50:HIS:NE2	2.28	0.49
18:AS:20:VAL:HA	18:AS:36:ILE:HG13	1.95	0.49
19:AT:63:ARG:O	19:AT:65:ILE:HG22	2.13	0.49
19:AT:83:ASP:O	19:AT:86:GLU:N	2.46	0.49
20:AU:30:ASP:CG	20:AU:32:ARG:H	2.16	0.49
20:AU:67:ALA:O	20:AU:70:ILE:N	2.46	0.49
22:AW:81:LYS:O	22:AW:84:LEU:N	2.46	0.49
49:B2:7:LYS:NZ	49:B2:32:GLN:CA	2.76	0.49
49:B2:9:VAL:HG22	49:B2:54:VAL:HA	1.94	0.49
50:B3:41:PRO:HD2	50:B3:57:GLU:OE1	2.13	0.49
53:B6:5:TRP:CE3	53:B6:5:TRP:C	2.86	0.49
24:BA:1091:G:N1	24:BA:1101:U:C4	2.70	0.49
24:BA:1166:C:O2'	24:BA:1167:U:H5'	2.13	0.49
24:BA:1366:A:H2'	24:BA:1366:A:N3	2.28	0.49
24:BA:1488:G:C3'	24:BA:1489:U:H5'	2.42	0.49
24:BA:1544:C:H2'	24:BA:1544:C:O2	2.11	0.49
24:BA:1775:U:C2'	24:BA:1776:G:O4'	2.57	0.49
24:BA:1790:C:N3	24:BA:1791:A:N6	2.60	0.49
24:BA:1842:G:H5'	24:BA:2076:U:O4	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1892:C:H2'	24:BA:1893:C:H6	1.78	0.49
24:BA:1988:C:C2	24:BA:1989:G:C8	3.01	0.49
24:BA:961:C:N4	24:BA:2031:A:C4	2.79	0.49
24:BA:2269:A:O5'	24:BA:2269:A:H8	1.95	0.49
24:BA:2250:G:OP2	24:BA:2275:C:H2'	2.13	0.49
24:BA:2385:C:N3	24:BA:2386:C:C6	2.81	0.49
24:BA:2437:U:H2'	24:BA:2438:U:H6	1.74	0.49
24:BA:2470:G:N2	24:BA:2471:C:C2	2.81	0.49
24:BA:2618:G:C2	24:BA:2619:C:C6	3.01	0.49
24:BA:2655:G:C2'	24:BA:2656:U:OP2	2.60	0.49
24:BA:26:G:H8	24:BA:26:G:O5'	1.96	0.49
24:BA:270(A):A:H3'	24:BA:270(A):A:N3	2.28	0.49
24:BA:270(G):C:N3	24:BA:270(H):C:N4	2.60	0.49
24:BA:2756:U:C4	24:BA:2758:A:N1	2.80	0.49
24:BA:2765:A:O2'	24:BA:2766:G:OP1	2.21	0.49
24:BA:2789:C:O2'	24:BA:2790:A:O5'	2.25	0.49
24:BA:2832:U:O2'	24:BA:2879:C:N4	2.45	0.49
24:BA:2850:A:H2'	24:BA:2851:A:C8	2.42	0.49
24:BA:295:G:C8	24:BA:344:G:N2	2.76	0.49
24:BA:339:U:C6	24:BA:340:A:N7	2.80	0.49
24:BA:337:C:N4	24:BA:339:U:H3	2.10	0.49
24:BA:353:G:H2'	24:BA:354:G:C8	2.47	0.49
24:BA:223:A:C6	24:BA:408:G:O4'	2.65	0.49
24:BA:412:A:H3'	24:BA:413:C:H6	1.78	0.49
24:BA:49:A:N3	24:BA:51:G:N2	2.61	0.49
24:BA:684:G:N9	24:BA:687:C:N4	2.61	0.49
24:BA:721:C:C2	24:BA:722:A:C8	3.01	0.49
24:BA:802:A:C5	24:BA:803:U:C5	3.01	0.49
24:BA:814:C:N3	24:BA:815:C:C5	2.81	0.49
24:BA:872:A:O2'	37:BP:66:ILE:CD1	2.57	0.49
24:BA:890:A:H4'	24:BA:892:G:H5'	1.93	0.49
25:BB:8:U:O2'	25:BB:9:G:O4'	2.25	0.49
27:BD:137:PRO:CB	27:BD:140:THR:HG21	2.43	0.49
27:BD:198:ASN:HD21	27:BD:201:HIS:CB	2.25	0.49
24:BA:1824:G:N2	27:BD:253:GLN:HE21	2.08	0.49
27:BD:59:LYS:HD2	27:BD:59:LYS:C	2.33	0.49
27:BD:68:LYS:O	27:BD:69:ARG:HG2	2.12	0.49
28:BE:105:THR:OG1	28:BE:166:THR:CA	2.59	0.49
28:BE:113:PHE:HA	28:BE:158:GLY:C	2.32	0.49
28:BE:151:TYR:OH	28:BE:152:LYS:HG3	2.13	0.49
28:BE:30:PRO:HA	28:BE:49:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:55:ASN:ND2	28:BE:73:GLU:OE2	2.46	0.49
29:BF:141:ALA:C	29:BF:145:GLU:OE2	2.51	0.49
29:BF:41:LEU:HB2	29:BF:44:ARG:CZ	2.40	0.49
29:BF:62:ARG:HG3	29:BF:63:LYS:CG	2.43	0.49
29:BF:62:ARG:CZ	29:BF:63:LYS:HZ3	2.25	0.49
30:BG:118:ARG:O	30:BG:119:GLY:O	2.30	0.49
30:BG:121:ASN:HD22	30:BG:124:SER:HA	1.78	0.49
30:BG:124:SER:O	30:BG:125:PHE:O	2.30	0.49
30:BG:63:ILE:HA	30:BG:143:GLU:OE1	2.12	0.49
33:BL:105:LEU:C	33:BL:108:ALA:HB3	2.33	0.49
34:BM:18:ALA:CB	34:BM:55:VAL:O	2.37	0.49
35:BN:103:ALA:C	35:BN:105:GLU:N	2.66	0.49
35:BN:9:GLU:O	35:BN:82:ASN:HB3	2.12	0.49
36:BO:114:ILE:CG1	36:BO:123:LEU:HD11	2.40	0.49
24:BA:811:U:OP2	36:BO:28:GLY:HA3	2.13	0.49
37:BP:121:ALA:O	37:BP:124:LYS:NZ	2.44	0.49
37:BP:47:ILE:O	37:BP:48:GLU:C	2.50	0.49
39:BR:24:LEU:HG	39:BR:25:ARG:H	1.76	0.49
39:BR:49:VAL:CG2	39:BR:80:LEU:HD12	2.41	0.49
42:BU:49:THR:HG23	42:BU:50:PRO:HD2	1.94	0.49
43:BV:14:PRO:O	43:BV:15:ARG:C	2.51	0.49
44:BW:34:ALA:HB3	44:BW:77:LYS:NZ	2.27	0.49
44:BW:4:ALA:O	48:B1:21:ARG:NH2	2.46	0.49
24:BA:1340:U:C6	44:BW:57:LEU:HD11	2.47	0.49
45:BX:97:ARG:CZ	45:BX:101:LYS:CD	2.90	0.49
24:BA:337:C:P	45:BX:6:HIS:CE1	3.06	0.49
46:BY:157:LEU:CD2	46:BY:161:VAL:HG13	2.42	0.49
46:BY:7:ALA:CB	46:BY:36:LYS:O	2.48	0.49
46:BY:4:ARG:NH2	46:BY:88:PHE:CE1	2.80	0.49
47:BZ:27:GLU:N	47:BZ:67:VAL:HG11	2.28	0.49
32:BK:68:LEU:CD1	32:BK:107:VAL:HG13	2.40	0.49
32:BK:144:VAL:O	32:BK:144:VAL:CG1	2.61	0.49
3:AD:44:G:O6	3:AD:45:U:O2	2.31	0.49
3:AD:63:G:C6	3:AD:64:C:N4	2.81	0.49
24:BA:2132:U:H3'	24:BA:2132:U:C2	2.47	0.49
26:BC:128:GLY:HA2	26:BC:137:LEU:CD1	2.41	0.49
26:BC:192:PHE:HD1	26:BC:192:PHE:O	1.96	0.49
26:BC:41:VAL:CG1	26:BC:42:GLU:N	2.75	0.49
24:BA:164:U:C2'	24:BA:164:U:O2	2.61	0.49
1:AA:341:C:O2'	1:AA:342:C:C5'	2.60	0.49
1:AA:1068:G:C2'	1:AA:1069:C:H5'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:110:C:H2'	1:AA:111:G:C5'	2.42	0.49
1:AA:116:A:C8	1:AA:116:A:O5'	2.63	0.49
1:AA:1277:C:C2'	1:AA:1279:A:H8	2.25	0.49
1:AA:1406:U:H1'	1:AA:1518:A:C4'	2.43	0.49
1:AA:1528:U:C2	1:AA:1530:G:H8	2.31	0.49
1:AA:237:C:H5''	19:AT:25:ARG:NH2	2.25	0.49
1:AA:22:G:C2'	1:AA:23:C:O4'	2.60	0.49
1:AA:254:G:O2'	1:AA:255:G:H5'	2.13	0.49
1:AA:318:G:C2	1:AA:319:G:C8	3.01	0.49
1:AA:372:C:H42	1:AA:389:A:H62	0.63	0.49
1:AA:389:A:N3	1:AA:390:C:O4'	2.46	0.49
1:AA:532:A:H8	5:AF:161:GLU:OE1	1.96	0.49
1:AA:573:A:C2	1:AA:574:A:C5	3.00	0.49
1:AA:841:U:H5'	1:AA:842:C:C5	2.46	0.49
1:AA:893:C:H5'	1:AA:1415:G:HO2'	1.78	0.49
1:AA:901:A:H2'	1:AA:902:G:O5'	2.13	0.49
1:AA:914:A:H2'	1:AA:915:A:N7	2.26	0.49
1:AA:957:U:H3	1:AA:960:U:H5'	1.78	0.49
1:AA:972:C:OP2	12:AM:57:LYS:HD2	2.12	0.49
1:AA:994:A:C2	16:AQ:5:ALA:HA	2.48	0.49
1:AA:9:G:OP2	7:AH:121:LYS:NZ	2.42	0.49
2:AC:16:C:H5'	2:AC:60:U:C2'	2.42	0.49
2:AC:9:G:C2	2:AC:46:G:C8	3.01	0.49
3:AD:36:A:H2'	3:AD:37:A:C8	2.48	0.49
4:AE:144:ARG:HD3	4:AE:148:TYR:OH	2.13	0.49
4:AE:80:ILE:HD12	4:AE:208:ILE:CD1	2.42	0.49
4:AE:74:LYS:HE2	4:AE:76:GLN:CG	2.43	0.49
4:AE:82:ARG:HA	4:AE:92:TYR:CZ	2.45	0.49
4:AE:97:TRP:O	4:AE:97:TRP:CG	2.66	0.49
5:AF:76:VAL:HG11	5:AF:103:VAL:HG11	1.94	0.49
5:AF:122:GLU:O	5:AF:125:GLU:CB	2.51	0.49
5:AF:144:SER:OG	5:AF:144:SER:O	2.25	0.49
5:AF:54:ARG:HG2	5:AF:55:VAL:N	2.28	0.49
6:AG:18:LYS:O	6:AG:21:LEU:CD1	2.57	0.49
6:AG:20:TYR:HA	6:AG:26:CYS:C	2.24	0.49
6:AG:54:TYR:O	6:AG:56:VAL:N	2.46	0.49
6:AG:59:ARG:HH11	6:AG:59:ARG:HA	1.65	0.49
6:AG:72:GLU:O	6:AG:75:PHE:HB3	2.12	0.49
6:AG:82:ALA:HB3	6:AG:89:THR:HG23	1.94	0.49
7:AH:145:LYS:CA	7:AH:148:VAL:HG23	2.43	0.49
7:AH:146:ALA:O	7:AH:149:GLU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:106:GLN:O	9:AJ:108:ALA:N	2.46	0.49
9:AJ:42:ILE:HG21	9:AJ:116:ALA:CB	2.43	0.49
9:AJ:143:ARG:O	9:AJ:144:MET:C	2.51	0.49
9:AJ:78:ARG:HB2	9:AJ:156:TRP:CZ3	2.48	0.49
9:AJ:71:PRO:HD2	9:AJ:96:GLN:HA	1.93	0.49
9:AJ:97:GLN:HG2	9:AJ:98:SER:N	2.27	0.49
10:AK:121:ASP:O	10:AK:122:ARG:C	2.51	0.49
10:AK:25:ASP:CG	10:AK:60:ARG:HB2	2.33	0.49
10:AK:63:LEU:HG	10:AK:65:TYR:OH	2.12	0.49
11:AL:104:ARG:O	11:AL:105:ASP:CB	2.60	0.49
11:AL:29:ASN:CA	11:AL:63:ILE:O	2.60	0.49
11:AL:15:ALA:CA	11:AL:65:VAL:HG23	2.42	0.49
13:AN:99:GLN:O	13:AN:102:GLY:CA	2.61	0.49
15:AP:78:ILE:CA	15:AP:81:LEU:HD13	2.37	0.49
16:AQ:26:ARG:NH1	16:AQ:47:LEU:CG	2.75	0.49
1:AA:657:G:C4'	17:AR:28:GLN:OE1	2.61	0.49
20:AU:63:GLN:OE1	20:AU:63:GLN:HA	2.10	0.49
20:AU:67:ALA:O	20:AU:70:ILE:HB	2.13	0.49
20:AU:71:LYS:O	20:AU:74:ARG:N	2.46	0.49
49:B2:10:LYS:CG	49:B2:12:PRO:HD3	2.42	0.49
24:BA:988:A:C5'	49:B2:10:LYS:HZ2	2.24	0.49
24:BA:248:G:OP1	50:B3:28:LYS:HE2	2.11	0.49
50:B3:17:GLY:HA3	50:B3:33:VAL:HB	1.95	0.49
51:B4:10:LYS:HD2	51:B4:15:ARG:CZ	2.39	0.49
24:BA:126:A:H5'	53:B6:47:ARG:HH12	1.76	0.49
24:BA:1049:C:C6	24:BA:1049:C:H3'	2.47	0.49
24:BA:1151:G:C5'	41:BT:81:HIS:CE1	2.96	0.49
24:BA:119:A:C4'	24:BA:120:U:H5'	2.42	0.49
24:BA:1434:A:H2'	24:BA:1435:G:H5'	1.93	0.49
24:BA:1439:A:C8	24:BA:1440:G:C8	3.01	0.49
24:BA:1449:A:N1	24:BA:1449(A):G:C4	2.80	0.49
24:BA:1475:G:C2'	24:BA:1476:C:O5'	2.60	0.49
24:BA:1505:C:C2	24:BA:1506:C:C5	3.01	0.49
24:BA:1276:A:P	24:BA:1645:G:O2'	2.71	0.49
24:BA:1675:C:O2	24:BA:1676:A:C1'	2.61	0.49
24:BA:1759:A:H5''	24:BA:2715:C:O4'	2.12	0.49
24:BA:188:G:C2'	24:BA:189:G:H5'	2.43	0.49
24:BA:1835:G:N3	24:BA:1931:U:C2	2.80	0.49
24:BA:1955:U:O2'	24:BA:1956:U:OP1	2.30	0.49
24:BA:1980:G:H3'	24:BA:1982:C:OP2	2.13	0.49
24:BA:2025:C:C2	24:BA:2026:C:C5	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2234:G:C2	24:BA:2235:G:N9	2.80	0.49
24:BA:228:A:N6	24:BA:230:U:N3	2.61	0.49
24:BA:2420:C:OP2	54:B7:33:ASN:O	2.30	0.49
24:BA:2427:C:C2'	24:BA:2428:G:OP2	2.60	0.49
24:BA:199:A:N1	24:BA:2434:A:C2	2.80	0.49
24:BA:2450:A:H2'	24:BA:2451:A:O4'	2.13	0.49
24:BA:2467:C:C4'	37:BP:123:HIS:NE2	2.74	0.49
24:BA:2472:G:H2'	24:BA:2529:G:N2	2.27	0.49
24:BA:2546:U:C1'	24:BA:2565:A:H2	2.26	0.49
24:BA:2588:G:H8	24:BA:2588:G:O5'	1.95	0.49
24:BA:2634:G:C4	24:BA:2635:C:C5	3.01	0.49
24:BA:2647:U:H2'	24:BA:2648:C:H6	1.78	0.49
24:BA:269:U:C5	24:BA:424:G:N1	2.79	0.49
24:BA:26:G:N1	24:BA:27:G:C2	2.79	0.49
24:BA:2820:A:H2'	24:BA:2821:A:OP1	2.12	0.49
24:BA:2807:G:N2	24:BA:2892:A:N6	2.58	0.49
24:BA:449:A:C4'	24:BA:1248:G:H22	2.26	0.49
24:BA:533:G:H2'	24:BA:534:U:C4'	2.40	0.49
24:BA:553:U:O4	24:BA:554:U:O4	2.31	0.49
24:BA:55:G:C2	24:BA:56:A:C8	3.01	0.49
24:BA:619:G:C8	24:BA:619:G:H3'	2.48	0.49
24:BA:625:G:C6	24:BA:626:U:H1'	2.47	0.49
24:BA:664:C:O2	24:BA:664:C:H2'	2.13	0.49
24:BA:886:C:H4'	24:BA:887:A:N9	2.28	0.49
24:BA:896:A:C2	24:BA:897:C:H5	2.31	0.49
24:BA:94:G:C2	24:BA:95:G:H1'	2.48	0.49
24:BA:974:G:H5'	24:BA:1187:G:O2'	2.13	0.49
25:BB:38:C:C2	25:BB:39:A:N7	2.81	0.49
27:BD:53:PHE:CB	27:BD:221:VAL:HG22	2.43	0.49
27:BD:51:VAL:HB	27:BD:52:ARG:NH1	2.28	0.49
27:BD:76:PRO:O	27:BD:98:VAL:CG2	2.60	0.49
24:BA:1656:C:H5'	28:BE:136:ARG:NH1	2.27	0.49
28:BE:34:VAL:O	28:BE:35:GLN:OE1	2.30	0.49
28:BE:45:THR:CB	28:BE:80:GLU:O	2.60	0.49
28:BE:91:VAL:HG23	28:BE:180:ASN:CG	2.32	0.49
29:BF:48:THR:O	29:BF:49:ALA:HB2	2.13	0.49
30:BG:114:ILE:O	30:BG:117:PHE:CD1	2.66	0.49
30:BG:123:ASN:HB2	30:BG:126:ASP:CG	2.33	0.49
30:BG:177:GLY:O	30:BG:178:PHE:CB	2.60	0.49
30:BG:91:ARG:HD3	30:BG:92:VAL:N	2.28	0.49
31:BH:127:GLU:HB3	31:BH:128:PRO:C	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:26:VAL:HG11	31:BH:75:ALA:C	2.32	0.49
34:BM:109:LYS:HE2	34:BM:111:PRO:HD2	1.95	0.49
34:BM:74:ARG:CG	34:BM:74:ARG:O	2.60	0.49
35:BN:27:GLY:O	35:BN:28:SER:C	2.51	0.49
35:BN:70:LYS:CG	35:BN:107:ARG:NH1	2.76	0.49
35:BN:88:ASN:HD22	35:BN:89:ASN:N	2.10	0.49
36:BO:121:LYS:N	36:BO:122:PRO:HD2	2.26	0.49
36:BO:6:LEU:CD2	36:BO:6:LEU:O	2.59	0.49
38:BQ:33:ARG:CB	38:BQ:113:LEU:HD21	2.31	0.49
39:BR:51:ALA:HA	39:BR:76:LYS:HE2	1.94	0.49
39:BR:30:ARG:HD3	39:BR:91:PRO:HB3	1.95	0.49
40:BS:17:THR:CB	40:BS:20:PRO:HD3	2.39	0.49
42:BU:16:PRO:CD	42:BU:100:ARG:HH12	2.26	0.49
43:BV:6:ILE:CD1	43:BV:104:THR:HA	2.43	0.49
43:BV:13:SER:N	43:BV:101:SER:OG	2.46	0.49
43:BV:16:LYS:HZ2	43:BV:16:LYS:H	1.49	0.49
44:BW:12:VAL:HB	44:BW:27:THR:C	2.27	0.49
45:BX:44:ILE:HG22	45:BX:46:LYS:HG3	1.93	0.49
46:BY:156:LYS:O	46:BY:158:PRO:HD3	2.12	0.49
46:BY:49:ARG:C	46:BY:51:ALA:N	2.64	0.49
47:BZ:45:PHE:HB3	47:BZ:59:LEU:HD12	1.92	0.49
32:BK:86:THR:HG22	32:BK:87:LYS:N	2.20	0.49
24:BA:2159:G:H2'	24:BA:2160:G:H8	1.77	0.49
24:BA:2168:G:C4	24:BA:2170:A:OP2	2.66	0.49
24:BA:2175:C:O2	24:BA:2175:C:C2'	2.57	0.49
26:BC:155:GLU:O	26:BC:156:ILE:C	2.50	0.49
26:BC:62:VAL:HG13	26:BC:64:LEU:CG	2.43	0.49
25:BB:2:C:C2'	25:BB:3:C:O5'	2.61	0.49
1:AA:143:A:C8	1:AA:143:A:O5'	2.65	0.49
1:AA:1266:G:H21	1:AA:1270:C:H42	1.61	0.49
1:AA:1281:U:H6	1:AA:1281:U:H3'	1.77	0.49
1:AA:1419:G:O6	1:AA:1482:G:N1	2.46	0.49
1:AA:1511:G:C5	1:AA:1512:U:C5	3.01	0.49
1:AA:20:U:H5'	1:AA:572:A:N1	2.28	0.49
1:AA:59:A:C5	1:AA:354:G:C6	3.01	0.49
1:AA:575:G:OP1	1:AA:576:G:H5''	2.13	0.49
1:AA:584:G:C2	1:AA:585:G:C8	3.01	0.49
1:AA:647:C:C2	1:AA:648:A:N7	2.80	0.49
1:AA:790:A:C2'	1:AA:791:G:O5'	2.60	0.49
1:AA:829:G:C2'	1:AA:830:G:H5'	2.42	0.49
1:AA:897:C:C2'	1:AA:898:G:O5'	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:950:U:O2	1:AA:951:G:C8	2.66	0.49
2:AC:43:A:H2'	2:AC:44:A:H8	1.78	0.49
2:AC:16:C:H5'	2:AC:60:U:H2'	1.94	0.49
3:AD:36:A:H3'	3:AD:37:A:H8	1.77	0.49
5:AF:116:VAL:HG11	5:AF:141:VAL:CG2	2.43	0.49
5:AF:123:GLN:O	5:AF:128:PHE:CE1	2.66	0.49
5:AF:142:MET:C	5:AF:142:MET:SD	2.91	0.49
5:AF:15:THR:CG2	5:AF:181:ASN:CG	2.81	0.49
5:AF:174:PRO:HD2	5:AF:203:PHE:CE1	2.47	0.49
5:AF:204:LEU:O	5:AF:205:GLY:C	2.51	0.49
6:AG:199:ASN:O	6:AG:200:GLU:HB3	2.12	0.49
6:AG:93:PHE:O	6:AG:96:LEU:N	2.46	0.49
8:AI:80:ARG:NH1	8:AI:88:VAL:CG1	2.75	0.49
9:AJ:72:ARG:NH2	9:AJ:138:LYS:HZ3	2.04	0.49
9:AJ:75:VAL:CG2	9:AJ:146:GLU:H	2.26	0.49
10:AK:104:ARG:HB3	10:AK:107:LEU:HG	1.95	0.49
10:AK:100:ILE:CB	10:AK:125:ARG:NH2	2.72	0.49
10:AK:98:LYS:HZ2	10:AK:98:LYS:H	1.60	0.49
11:AL:5:TYR:HD2	11:AL:17:VAL:O	1.96	0.49
12:AM:4:ILE:CG1	12:AM:100:THR:HB	2.37	0.49
12:AM:27:ALA:HB2	12:AM:85:LEU:CD2	2.42	0.49
13:AN:42:TRP:CE3	13:AN:43:SER:N	2.76	0.49
13:AN:99:GLN:HA	13:AN:105:VAL:HG21	1.94	0.49
14:AO:8:ASN:O	14:AO:9:GLN:C	2.49	0.49
15:AP:2:ALA:HB3	15:AP:4:ILE:CD1	2.40	0.49
15:AP:77:ASN:HA	15:AP:80:ARG:CD	2.43	0.49
17:AR:28:GLN:O	17:AR:31:LEU:HB2	2.13	0.49
1:AA:582:U:C5'	17:AR:64:ARG:NH2	2.61	0.49
18:AS:59:TRP:CE3	18:AS:59:TRP:HA	2.47	0.49
19:AT:67:LYS:CB	19:AT:70:ARG:HH22	2.26	0.49
20:AU:82:THR:O	20:AU:83:GLU:CD	2.52	0.49
22:AW:39:LYS:O	22:AW:42:GLN:CB	2.60	0.49
22:AW:42:GLN:NE2	22:AW:42:GLN:CA	2.74	0.49
22:AW:50:GLU:HB2	22:AW:99:LEU:CD1	2.43	0.49
22:AW:72:LEU:HD13	22:AW:77:ALA:CB	2.43	0.49
22:AW:91:LEU:HD23	22:AW:91:LEU:N	2.26	0.49
48:B1:4:GLN:CA	48:B1:7:GLU:OE2	2.60	0.49
50:B3:43:TYR:CE2	50:B3:55:ARG:HG2	2.47	0.49
50:B3:68:ARG:O	50:B3:71:ARG:HA	2.13	0.49
54:B7:39:LYS:NZ	54:B7:39:LYS:CB	2.76	0.49
54:B7:40:GLU:O	54:B7:42:ARG:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:7:HIS:O	54:B7:11:LYS:HG3	2.13	0.49
24:BA:1014:U:H2'	24:BA:1015:G:O5'	2.12	0.49
24:BA:1030:G:C2'	24:BA:1031:G:O5'	2.61	0.49
24:BA:1055:G:C3'	24:BA:1055:G:C8	2.95	0.49
24:BA:1107:G:C2	24:BA:1108:U:H1'	2.47	0.49
24:BA:1142:U:C6	24:BA:1142(A):A:H8	2.23	0.49
24:BA:120:U:H1'	24:BA:149:A:C1'	2.42	0.49
24:BA:125:G:C3'	53:B6:47:ARG:NH1	2.76	0.49
24:BA:1265:A:N3	24:BA:1265:A:C2'	2.74	0.49
24:BA:1300:U:C6	24:BA:1300:U:O5'	2.66	0.49
24:BA:1419:A:H3'	24:BA:1420:U:O2	2.13	0.49
24:BA:1442:G:N2	24:BA:1443:G:C4	2.81	0.49
24:BA:147:U:C4	24:BA:148:C:N4	2.81	0.49
24:BA:1545(A):A:H2'	24:BA:1546:C:C5'	2.43	0.49
24:BA:1700:A:C5'	24:BA:1701:A:OP2	2.60	0.49
24:BA:1753:G:H3'	24:BA:1753:G:C8	2.47	0.49
24:BA:1778:U:C6	24:BA:1778:U:C3'	2.95	0.49
24:BA:1806:C:H2'	24:BA:1807:G:H5'	1.94	0.49
24:BA:1853:A:N1	24:BA:2087:G:H1'	2.28	0.49
24:BA:1861:G:N2	24:BA:1862:G:C1'	2.76	0.49
24:BA:1935:G:N2	24:BA:1962:C:O2'	2.46	0.49
24:BA:1993:U:O5'	24:BA:1993:U:H6	1.96	0.49
24:BA:2019:A:C6	24:BA:2020:A:C4	3.01	0.49
24:BA:2042:A:O2'	24:BA:2043:C:C5'	2.61	0.49
24:BA:2304:G:O6	24:BA:2313:C:N4	2.46	0.49
24:BA:220:G:O2'	24:BA:233:A:C2	2.66	0.49
24:BA:2526:G:H2'	24:BA:2527:C:O5'	2.13	0.49
24:BA:2530:A:C3'	24:BA:2531:A:C5'	2.80	0.49
24:BA:14:A:H2	24:BA:2625:G:O2'	1.95	0.49
24:BA:2690:C:C6	24:BA:2690:C:C3'	2.96	0.49
24:BA:269:U:O4	24:BA:270(Z):U:C5'	2.60	0.49
24:BA:2876:G:H4'	40:BS:1:MET:N	2.24	0.49
24:BA:27:G:H2'	24:BA:28:A:C8	2.48	0.49
24:BA:464:U:H1'	24:BA:788:A:C6	2.48	0.49
24:BA:498:G:C3'	24:BA:498:G:C8	2.95	0.49
24:BA:76:C:O2	24:BA:76:C:H2'	2.12	0.49
24:BA:772:C:H5'	24:BA:1355:G:O3'	2.13	0.49
24:BA:80:G:C6	24:BA:81:G:N7	2.81	0.49
24:BA:857:C:O2'	47:BZ:23:VAL:HG11	2.13	0.49
24:BA:869:G:C2	24:BA:909:A:C6	3.00	0.49
24:BA:988:A:OP1	49:B2:12:PRO:HD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1791:A:C3'	27:BD:206:LEU:HD21	2.43	0.49
27:BD:63:ARG:NH1	27:BD:63:ARG:CG	2.75	0.49
28:BE:116:VAL:O	28:BE:120:TRP:NE1	2.46	0.49
28:BE:133:LYS:CB	28:BE:137:HIS:CD2	2.95	0.49
28:BE:133:LYS:NZ	28:BE:138:PRO:HD2	2.28	0.49
28:BE:7:VAL:HG12	28:BE:196:VAL:HG11	1.95	0.49
28:BE:197:ILE:HB	28:BE:199:ARG:CZ	2.43	0.49
29:BF:163:VAL:O	29:BF:167:ALA:HB2	2.13	0.49
29:BF:174:VAL:O	29:BF:174:VAL:HG22	2.13	0.49
30:BG:110:ALA:CB	30:BG:139:LEU:HG	2.43	0.49
31:BH:25:LYS:NZ	31:BH:32:GLU:OE1	2.34	0.49
34:BM:54:VAL:HG23	34:BM:55:VAL:H	1.78	0.49
35:BN:19:ILE:C	35:BN:19:ILE:CD1	2.71	0.49
36:BO:76:LYS:HE3	36:BO:101:VAL:CG2	2.39	0.49
36:BO:85:LEU:C	36:BO:86:LYS:HD3	2.33	0.49
37:BP:111:GLU:CB	37:BP:113:GLN:CG	2.86	0.49
37:BP:12:GLN:C	37:BP:13:GLN:HG2	2.33	0.49
37:BP:48:GLU:O	37:BP:51:ARG:HG2	2.08	0.49
37:BP:74:TYR:HE1	37:BP:94:VAL:HG13	1.76	0.49
24:BA:2690:C:C5	38:BQ:14:SER:CB	2.91	0.49
38:BQ:20:LEU:HD13	38:BQ:20:LEU:O	2.12	0.49
38:BQ:93:GLY:O	38:BQ:95:THR:N	2.45	0.49
38:BQ:41:ALA:HB1	38:BQ:97:VAL:HG13	1.94	0.49
39:BR:32:LEU:C	39:BR:34:HIS:N	2.67	0.49
39:BR:42:ASP:OD1	39:BR:44:LYS:CG	2.61	0.49
39:BR:93:LYS:O	39:BR:98:VAL:HG11	2.13	0.49
40:BS:54:ARG:HG3	40:BS:101:PHE:CD2	2.48	0.49
40:BS:52:ILE:CG1	40:BS:66:VAL:HG13	2.43	0.49
41:BT:55:ARG:O	41:BT:56:ASP:C	2.49	0.49
41:BT:74:LEU:HD12	41:BT:78:THR:CG2	2.41	0.49
41:BT:84:LYS:HE2	41:BT:90:VAL:HG11	1.95	0.49
41:BT:92:ARG:C	41:BT:94:ASN:N	2.66	0.49
42:BU:62:LEU:CD1	42:BU:98:GLU:HA	2.42	0.49
24:BA:1322:A:C5'	43:BV:11:ARG:HH11	2.25	0.49
43:BV:58:ALA:HB1	43:BV:69:LEU:HD23	1.94	0.49
43:BV:94:ASP:N	43:BV:94:ASP:OD2	2.46	0.49
24:BA:2014:A:H5''	43:BV:95:ILE:CD1	2.43	0.49
24:BA:1312:U:H5'	44:BW:72:LYS:NZ	2.27	0.49
45:BX:97:ARG:HG2	45:BX:101:LYS:CB	2.42	0.49
45:BX:9:LYS:HB2	45:BX:110:GLU:OE1	2.12	0.49
45:BX:74:PRO:HD2	45:BX:76:CYS:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:52:G:N2	3:AD:53:G:H1'	2.28	0.49
26:BC:22:ILE:HG23	26:BC:189:ILE:HD13	1.94	0.49
26:BC:49:ILE:HG22	26:BC:56:GLN:NE2	2.28	0.49
24:BA:1498:C:H6	24:BA:1576:U:C4'	2.11	0.49
32:BK:57:ARG:CD	32:BK:61:ARG:HH22	2.21	0.49
25:BB:117:G:N2	25:BB:118:G:H1'	2.27	0.49
24:BA:273(F):C:O2	24:BA:363(A):A:N6	2.46	0.49
1:AA:346:G:N2	1:AA:347:G:C4	2.81	0.49
1:AA:1022:G:C2	1:AA:1023:G:C4	3.01	0.49
1:AA:1068:G:C6	1:AA:1108:G:N3	2.81	0.49
1:AA:1179:A:H2'	1:AA:1180:A:C8	2.48	0.49
1:AA:1239:A:H2'	1:AA:1239:A:N3	2.27	0.49
1:AA:1326:C:C2	1:AA:1327:C:C5	3.01	0.49
1:AA:1304:G:N1	1:AA:1332:A:OP2	2.45	0.49
1:AA:1338:G:N1	1:AA:1339:A:C6	2.80	0.49
1:AA:1533:C:C5'	1:AA:1534:A:OP1	2.60	0.49
1:AA:281:G:O2'	1:AA:282:A:H8	1.96	0.49
1:AA:321:A:N6	1:AA:328:C:O2'	2.43	0.49
1:AA:373:A:H1'	1:AA:481:G:N3	2.27	0.49
1:AA:379:C:H2'	1:AA:380:G:C5'	2.43	0.49
1:AA:664:G:H3'	1:AA:664:G:H8	1.77	0.49
1:AA:675:A:C2'	1:AA:676:A:C8	2.92	0.49
1:AA:696:A:O2'	1:AA:697:U:H5'	2.12	0.49
1:AA:701:C:HO2'	1:AA:702:A:P	2.36	0.49
1:AA:796:C:N3	1:AA:797:C:C5	2.81	0.49
1:AA:921:U:OP1	1:AA:1082:G:H5''	2.12	0.49
1:AA:924:C:HO2'	1:AA:1399:C:H6	1.59	0.49
2:AC:70:G:H2'	2:AC:71:C:H6	1.77	0.49
3:AD:67:C:C2'	3:AD:68:U:H5'	2.42	0.49
4:AE:24:TRP:HA	4:AE:190:THR:O	2.13	0.49
5:AF:34:LEU:HD23	5:AF:35:GLU:CA	2.41	0.49
6:AG:18:LYS:C	6:AG:19:LEU:HD23	2.33	0.49
6:AG:93:PHE:O	6:AG:95:GLY:N	2.45	0.49
7:AH:94:ALA:HB3	7:AH:117:ASP:C	2.34	0.49
8:AI:39:LYS:CG	8:AI:64:GLN:HE21	2.26	0.49
8:AI:50:TYR:CE2	20:AU:77:GLY:HA2	2.48	0.49
8:AI:6:VAL:HG12	8:AI:63:TYR:H	1.78	0.49
9:AJ:134:ALA:C	9:AJ:136:LYS:N	2.65	0.49
9:AJ:21:VAL:HG23	9:AJ:22:LEU:N	2.28	0.49
10:AK:122:ARG:O	10:AK:125:ARG:CB	2.57	0.49
10:AK:36:LEU:HG	10:AK:37:ARG:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:28:VAL:N	11:AL:31:GLN:O	2.40	0.49
12:AM:36:GLY:O	12:AM:38:ILE:HG13	2.13	0.49
1:AA:34:C:O4'	14:AO:32:PHE:HE2	1.95	0.49
14:AO:28:LYS:HG3	14:AO:33:ARG:NH1	2.23	0.49
14:AO:90:VAL:O	14:AO:90:VAL:HG12	2.13	0.49
16:AQ:42:ILE:C	16:AQ:44:LEU:N	2.63	0.49
1:AA:1186:G:N2	16:AQ:61:TRP:O	2.35	0.49
17:AR:42:HIS:C	17:AR:42:HIS:ND1	2.66	0.49
17:AR:49:ASP:O	17:AR:49:ASP:OD1	2.30	0.49
17:AR:64:ARG:HA	17:AR:67:LEU:HD12	1.94	0.49
17:AR:68:ARG:O	17:AR:71:GLN:HB3	2.13	0.49
17:AR:79:ARG:HB2	17:AR:79:ARG:NH1	2.27	0.49
1:AA:392:G:C5'	18:AS:12:LYS:CE	2.85	0.49
18:AS:19:ILE:HD12	18:AS:38:TYR:N	2.27	0.49
19:AT:65:ILE:O	19:AT:66:SER:C	2.51	0.49
20:AU:75:ILE:HB	20:AU:76:LEU:HD23	1.94	0.49
49:B2:17:LYS:HD3	49:B2:17:LYS:C	2.33	0.49
50:B3:23:GLU:C	50:B3:25:TYR:H	2.16	0.49
54:B7:63:PRO:HG2	54:B7:64:TYR:H	1.78	0.49
24:BA:116:C:H2'	24:BA:117:G:O5'	2.13	0.49
24:BA:1287:A:C5	24:BA:1288:U:C4	3.01	0.49
24:BA:1343:G:H2'	24:BA:1384:A:H2	1.78	0.49
24:BA:1524:G:C4	24:BA:1525:G:N7	2.81	0.49
24:BA:1615:C:C5	24:BA:1617:C:N1	2.80	0.49
24:BA:1647:G:C5'	24:BA:1648:C:OP1	2.61	0.49
24:BA:1859:A:C2'	24:BA:1860:G:H5'	2.42	0.49
24:BA:1942:C:P	24:BA:1943:U:H3'	2.51	0.49
24:BA:529:A:N6	24:BA:2023:G:C4	2.81	0.49
24:BA:2277:G:OP2	47:BZ:12:ASN:ND2	2.42	0.49
24:BA:2329:G:H3'	24:BA:2329:G:C8	2.48	0.49
24:BA:2479:G:H5''	24:BA:2537:U:C4'	2.43	0.49
24:BA:2488:A:C6	24:BA:2489:G:C6	3.01	0.49
24:BA:2031:A:C6	24:BA:2498:C:C2	3.00	0.49
24:BA:2514:U:H2'	24:BA:2515:C:OP2	2.13	0.49
24:BA:2015:A:C2	24:BA:2613:U:O4	2.66	0.49
24:BA:2658:C:C2'	24:BA:2659:G:C5'	2.66	0.49
24:BA:2674:G:C2'	24:BA:2675:A:C8	2.91	0.49
24:BA:25:U:H2'	24:BA:26:G:H8	1.78	0.49
24:BA:2731:G:C2	24:BA:2732:G:C2	3.01	0.49
24:BA:2857:G:H1'	24:BA:2861:G:H22	1.76	0.49
24:BA:513:A:C2	24:BA:514:A:H8	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:587:C:HO2'	24:BA:588:U:P	2.36	0.49
24:BA:621:A:H2'	24:BA:622:G:H5'	1.94	0.49
24:BA:633:A:C5	24:BA:634:C:H1'	2.48	0.49
24:BA:637:A:C2	24:BA:651:G:O3'	2.66	0.49
24:BA:66:C:N3	24:BA:67:U:C5	2.81	0.49
24:BA:728:G:O6	24:BA:762:U:C2	2.66	0.49
24:BA:803:U:H6	24:BA:803:U:O5'	1.96	0.49
24:BA:806:C:O2'	24:BA:2445:G:C4'	2.60	0.49
24:BA:932:G:C2'	24:BA:933:A:C8	2.87	0.49
24:BA:962:G:C2	24:BA:963:U:C2	3.01	0.49
27:BD:214:TRP:O	27:BD:217:ARG:N	2.46	0.49
27:BD:76:PRO:CD	27:BD:98:VAL:HG21	2.43	0.49
29:BF:43:LYS:HE3	29:BF:100:THR:H	1.78	0.49
29:BF:119:ARG:NH2	29:BF:120:GLU:OE1	2.46	0.49
29:BF:132:VAL:H	29:BF:138:GLU:HG3	1.78	0.49
29:BF:158:THR:HG22	29:BF:160:ASN:OD1	2.13	0.49
29:BF:43:LYS:NZ	29:BF:100:THR:CG2	2.75	0.49
29:BF:74:ARG:O	29:BF:75:HIS:CB	2.60	0.49
30:BG:120:LEU:CB	30:BG:181:ARG:HB3	2.41	0.49
30:BG:26:GLN:HB3	30:BG:31:VAL:CG1	2.43	0.49
30:BG:32:PRO:HG2	30:BG:33:ARG:H	1.77	0.49
31:BH:103:LEU:H	31:BH:115:VAL:HG12	1.77	0.49
31:BH:11:VAL:HG13	31:BH:11:VAL:O	2.12	0.49
31:BH:172:LYS:CB	31:BH:172:LYS:NZ	2.71	0.49
32:BK:16:GLY:C	32:BK:17:GLN:HG3	2.33	0.49
32:BK:24:GLY:O	32:BK:27:ARG:N	2.46	0.49
32:BK:8:PRO:N	32:BK:14:ASP:HA	2.27	0.49
33:BL:42:ASN:O	33:BL:43:ALA:C	2.51	0.49
34:BM:109:LYS:HE3	34:BM:110:GLY:N	2.28	0.49
34:BM:34:LEU:O	34:BM:35:ARG:O	2.30	0.49
34:BM:85:ILE:HD12	34:BM:85:ILE:N	2.27	0.49
34:BM:95:PRO:HA	34:BM:98:VAL:CG2	2.42	0.49
35:BN:14:THR:O	35:BN:14:THR:HG23	2.12	0.49
35:BN:38:VAL:C	35:BN:39:ILE:HG23	2.32	0.49
37:BP:22:LYS:HB2	46:BY:79:ARG:HH21	1.73	0.49
38:BQ:56:LYS:C	38:BQ:58:GLY:N	2.65	0.49
38:BQ:86:ARG:CZ	38:BQ:86:ARG:CB	2.89	0.49
39:BR:20:ARG:O	39:BR:21:THR:HG23	2.12	0.49
39:BR:17:ARG:NH1	39:BR:89:ARG:HB2	2.27	0.49
39:BR:17:ARG:NH2	39:BR:89:ARG:HD2	2.28	0.49
40:BS:64:ARG:O	40:BS:66:VAL:HG22	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:7:ILE:CG1	40:BS:8:LYS:H	2.26	0.49
24:BA:1009:A:O2'	41:BT:62:ILE:CG2	2.61	0.49
42:BU:33:VAL:CG1	42:BU:34:GLU:N	2.76	0.49
43:BV:27:LYS:HG3	43:BV:31:GLU:OE2	2.13	0.49
43:BV:33:ARG:HB3	43:BV:33:ARG:HH21	1.77	0.49
43:BV:7:ALA:O	43:BV:102:HIS:HB3	2.11	0.49
45:BX:84:ARG:N	45:BX:84:ARG:HE	2.10	0.49
46:BY:148:ASP:O	46:BY:174:VAL:HG22	2.12	0.49
47:BZ:44:ARG:O	47:BZ:45:PHE:HD2	1.96	0.49
26:BC:181:PRO:CD	26:BC:184:LYS:HD2	2.42	0.49
26:BC:200:LYS:NZ	26:BC:204:ALA:HB3	2.28	0.49
1:AA:1037:C:O2'	1:AA:1038:C:H5'	2.11	0.49
1:AA:1167:A:C6	1:AA:1169:A:C6	3.01	0.49
5:AF:157:ILE:HG21	5:AF:164:ARG:NH2	2.27	0.49
24:BA:2339:G:N2	24:BA:2340:G:C4	2.81	0.49
6:AG:165:MET:HE3	6:AG:167:GLY:N	2.28	0.49
25:BB:25:A:H2'	25:BB:26:A:O4'	2.13	0.49
1:AA:1055:A:N6	1:AA:1206:G:N9	2.61	0.48
1:AA:1102:A:C2	1:AA:1103:C:C4	3.00	0.48
1:AA:962:C:C3'	1:AA:1200:C:H41	2.26	0.48
1:AA:1222:G:N2	1:AA:1223:C:N3	2.61	0.48
1:AA:1278:U:C6	1:AA:1278:U:H3'	2.46	0.48
1:AA:1374:A:C4	1:AA:1375:A:C8	3.01	0.48
1:AA:254:G:H2'	1:AA:255:G:C8	2.48	0.48
1:AA:283:C:C2'	1:AA:283:C:O2	2.60	0.48
1:AA:49:U:C5	1:AA:361:G:C2	3.01	0.48
1:AA:464:G:C2	1:AA:474:G:O6	2.66	0.48
1:AA:482:A:H2	1:AA:483:C:N1	2.09	0.48
1:AA:501:C:C1'	1:AA:549:C:H1'	2.34	0.48
1:AA:568:G:N3	1:AA:574:A:H2	2.11	0.48
1:AA:629:G:C2	1:AA:630:G:C8	3.01	0.48
1:AA:601:C:C2	1:AA:638:G:N2	2.81	0.48
1:AA:643:C:C2'	1:AA:644:G:H5'	2.43	0.48
1:AA:696:A:H2'	1:AA:697:U:C5'	2.43	0.48
1:AA:735:C:HO2'	20:AU:75:ILE:CD1	2.26	0.48
1:AA:812:C:H4'	1:AA:813:U:H6	1.78	0.48
1:AA:570:G:O3'	1:AA:819:A:H2'	2.13	0.48
1:AA:859:A:C2'	1:AA:860:A:O4'	2.54	0.48
1:AA:813:U:OP1	1:AA:904:C:H5'	2.13	0.48
1:AA:991:U:O2'	1:AA:993:G:C8	2.61	0.48
3:AD:34:G:OP1	3:AD:35:A:C5'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:73:A:C2'	3:AD:74:C:OP1	2.61	0.48
3:AD:76:A:C5	24:BA:2432:A:C4	3.01	0.48
4:AE:171:ALA:O	4:AE:174:VAL:N	2.46	0.48
4:AE:193:ASP:OD2	4:AE:196:LEU:CG	2.61	0.48
4:AE:47:THR:HB	4:AE:48:MET:SD	2.53	0.48
4:AE:55:PHE:HA	4:AE:58:ILE:CG1	2.42	0.48
4:AE:61:LEU:CD1	4:AE:68:ILE:HD13	2.43	0.48
5:AF:134:ILE:HG12	5:AF:153:VAL:HG22	1.95	0.48
5:AF:44:GLU:HA	5:AF:52:LEU:CD1	2.43	0.48
6:AG:101:LEU:HD12	6:AG:105:VAL:CG2	2.42	0.48
6:AG:105:VAL:CG2	6:AG:121:VAL:HG22	2.39	0.48
6:AG:173:TRP:CD1	6:AG:185:PHE:HE2	2.22	0.48
6:AG:18:LYS:HD3	6:AG:20:TYR:CD2	2.47	0.48
6:AG:83:SER:HA	6:AG:89:THR:CB	2.42	0.48
7:AH:127:ASN:O	7:AH:128:PRO:C	2.51	0.48
1:AA:737:A:C3'	8:AI:92:LYS:HZ1	2.07	0.48
8:AI:95:GLU:N	8:AI:95:GLU:CD	2.67	0.48
8:AI:98:LEU:HD23	8:AI:99:ALA:O	2.13	0.48
9:AJ:123:GLU:O	9:AJ:125:MET:N	2.46	0.48
9:AJ:136:LYS:O	9:AJ:137:LYS:C	2.51	0.48
1:AA:1147:C:H1'	11:AL:16:ARG:HH21	1.78	0.48
12:AM:54:PHE:CZ	12:AM:55:LYS:HG2	2.47	0.48
13:AN:85:ARG:CD	13:AN:113:PRO:CD	2.91	0.48
14:AO:23:LYS:O	14:AO:24:VAL:CG2	2.53	0.48
15:AP:91:ARG:O	15:AP:96:LEU:CD2	2.61	0.48
16:AQ:14:PRO:O	16:AQ:16:PHE:N	2.45	0.48
18:AS:5:ARG:HH22	18:AS:24:ALA:HA	1.79	0.48
1:AA:375:U:O3'	18:AS:6:LEU:CD2	2.61	0.48
20:AU:74:ARG:HG3	20:AU:79:LEU:HD21	1.94	0.48
13:AN:110:ASP:CB	20:AU:88:LYS:HB2	2.39	0.48
21:AV:77:THR:HG23	21:AV:78:ARG:H	1.78	0.48
22:AW:26:ASN:HB2	22:AW:71:THR:HG23	1.95	0.48
22:AW:79:ARG:HG3	22:AW:79:ARG:HH11	1.77	0.48
51:B4:14:ALA:O	51:B4:17:ASP:HB2	2.13	0.48
24:BA:1266:G:OP1	51:B4:19:ARG:CZ	2.61	0.48
24:BA:1372:U:O5'	24:BA:1372:U:H6	1.95	0.48
24:BA:1433:U:C6	24:BA:1433:U:C3'	2.96	0.48
24:BA:143:C:H2'	24:BA:144:C:C5	2.47	0.48
24:BA:1525:G:C2	24:BA:1526:G:C4	3.01	0.48
24:BA:742:G:O2'	24:BA:1676:A:H4'	2.13	0.48
24:BA:1782:C:C2	24:BA:2609:U:C5	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1815:A:C5	24:BA:1817:G:C2	3.01	0.48
24:BA:1792:G:O2'	24:BA:1830:C:OP1	2.28	0.48
24:BA:1832:C:C4	24:BA:1833:U:C4	3.00	0.48
24:BA:1842:G:N3	24:BA:1843:C:C6	2.80	0.48
24:BA:1850:G:N1	24:BA:1851:U:C2	2.81	0.48
24:BA:1951:U:O2'	24:BA:1953:A:H5''	2.12	0.48
24:BA:2000:G:C6	24:BA:2001:A:N7	2.81	0.48
24:BA:217:G:H2'	24:BA:218:A:H5'	1.95	0.48
24:BA:2345:G:O2'	24:BA:2346:A:P	2.71	0.48
24:BA:416:C:N3	24:BA:2407:G:O6	2.45	0.48
24:BA:2524:G:H5'	24:BA:2764:A:O2'	2.12	0.48
24:BA:2579:C:C6	24:BA:2579:C:C4'	2.96	0.48
24:BA:2599:G:H2'	24:BA:2600:A:C8	2.48	0.48
24:BA:2712(A):A:C8	24:BA:2712(A):A:H3'	2.48	0.48
24:BA:2688:U:H3	24:BA:2719:G:H2'	1.78	0.48
24:BA:2770:G:H8	24:BA:2770:G:O5'	1.96	0.48
24:BA:2777:G:H5''	24:BA:2778:A:OP1	2.12	0.48
24:BA:527:C:H5''	24:BA:2779:U:H3	1.78	0.48
24:BA:2831:G:H5''	24:BA:2834:G:O2'	2.13	0.48
24:BA:506:G:O4'	24:BA:506:G:OP2	2.31	0.48
24:BA:611:C:C4	24:BA:612:G:C2	3.01	0.48
24:BA:611:C:O2	24:BA:616:A:C2	2.66	0.48
24:BA:626:U:H4'	24:BA:653:A:N1	2.27	0.48
24:BA:697:C:C2	24:BA:698:C:C5	3.00	0.48
24:BA:775:G:N3	24:BA:791:C:C4	2.81	0.48
24:BA:849:A:N3	24:BA:850:C:C6	2.81	0.48
24:BA:871:U:H4'	37:BP:69:PHE:CE1	2.47	0.48
24:BA:88:G:H5'	24:BA:88:G:H8	1.78	0.48
24:BA:889:C:O2'	24:BA:890:A:O5'	2.29	0.48
24:BA:977:G:C6	24:BA:987:G:C6	3.01	0.48
25:BB:103:U:O2	46:BY:72:ARG:NH2	2.46	0.48
25:BB:45:A:C6	25:BB:46:A:C5	3.01	0.48
25:BB:45:A:C6	25:BB:46:A:C4	3.01	0.48
27:BD:132:PRO:O	27:BD:133:LEU:O	2.31	0.48
27:BD:5:LYS:HB3	27:BD:29:PRO:CD	2.43	0.48
27:BD:8:PRO:CD	27:BD:26:LYS:N	2.73	0.48
24:BA:2052:G:P	28:BE:141:ILE:HG12	2.52	0.48
24:BA:2571:C:O2'	28:BE:146:THR:CG2	2.60	0.48
28:BE:49:LEU:HD21	28:BE:75:VAL:N	2.27	0.48
30:BG:112:PRO:O	30:BG:112:PRO:HG2	2.13	0.48
30:BG:139:LEU:HB3	30:BG:142:PRO:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:57:A:H1'	30:BG:29:TRP:CD2	2.48	0.48
30:BG:39:ILE:HD11	30:BG:99:MET:HE1	1.95	0.48
31:BH:103:LEU:CD2	31:BH:115:VAL:HB	2.41	0.48
31:BH:7:LEU:HD12	31:BH:52:VAL:O	2.12	0.48
31:BH:98:LEU:CD2	31:BH:100:GLY:O	2.61	0.48
32:BK:43:ASN:O	32:BK:44:LEU:C	2.51	0.48
33:BL:131:ALA:HB1	33:BL:136:VAL:CB	2.43	0.48
33:BL:12:LEU:HD13	33:BL:23:VAL:HG21	1.95	0.48
35:BN:9:GLU:OE1	35:BN:18:LYS:HB2	2.12	0.48
24:BA:2675:A:C5'	35:BN:29:ASN:HB3	2.34	0.48
35:BN:50:GLY:O	35:BN:51:ALA:HB2	2.13	0.48
35:BN:7:TYR:CA	35:BN:18:LYS:CE	2.84	0.48
36:BO:113:LYS:CD	36:BO:113:LYS:C	2.79	0.48
36:BO:29:LYS:HZ3	36:BO:29:LYS:HB3	1.78	0.48
37:BP:134:ARG:NH1	37:BP:137:TYR:N	2.59	0.48
37:BP:41:TRP:CD2	37:BP:41:TRP:N	2.81	0.48
24:BA:2495:G:H5'	37:BP:81:VAL:O	2.13	0.48
38:BQ:100:LEU:HD13	38:BQ:101:ALA:C	2.33	0.48
40:BS:64:ARG:NH2	40:BS:77:PRO:C	2.67	0.48
40:BS:28:VAL:CG2	40:BS:90:GLN:HE22	2.24	0.48
40:BS:92:GLY:O	40:BS:93:ARG:NH2	2.44	0.48
40:BS:26:ASP:H	40:BS:94:ALA:HB1	1.78	0.48
43:BV:28:SER:N	43:BV:31:GLU:OE2	2.46	0.48
43:BV:33:ARG:C	43:BV:33:ARG:CZ	2.81	0.48
44:BW:34:ALA:HB3	44:BW:77:LYS:HZ1	1.78	0.48
45:BX:44:ILE:C	45:BX:46:LYS:N	2.66	0.48
45:BX:43:ASN:ND2	45:BX:57:GLN:OE1	2.46	0.48
46:BY:130:PRO:O	46:BY:131:ARG:C	2.51	0.48
46:BY:51:ALA:O	46:BY:54:HIS:HB2	2.12	0.48
46:BY:68:PRO:HD2	46:BY:90:VAL:HG12	1.94	0.48
47:BZ:46:LYS:HE2	47:BZ:77:ARG:HB2	1.94	0.48
32:BK:113:ARG:HH12	32:BK:138:ILE:HG21	1.78	0.48
32:BK:138:ILE:O	32:BK:138:ILE:HG23	2.14	0.48
3:AD:63:G:C2	3:AD:64:C:C4	3.01	0.48
26:BC:77:ILE:CD1	26:BC:138:PRO:HG2	2.41	0.48
26:BC:114:VAL:HG11	26:BC:152:ILE:HG22	1.95	0.48
26:BC:193:ILE:HG22	26:BC:197:GLU:OE1	2.13	0.48
26:BC:7:TYR:HE1	26:BC:10:LEU:HG	1.78	0.48
24:BA:1582:C:N3	24:BA:1583:A:N7	2.61	0.48
4:AE:130:ARG:NE	4:AE:130:ARG:HA	2.28	0.48
24:BA:363(A):A:C2'	24:BA:363(B):G:O5'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2097:C:C2'	24:BA:2098:U:C5'	2.87	0.48
5:AF:75:VAL:HG12	5:AF:75:VAL:O	2.12	0.48
7:AH:140:ARG:CB	7:AH:140:ARG:NH1	2.76	0.48
1:AA:1142:G:H2'	1:AA:1143:G:H8	1.78	0.48
1:AA:1239:A:C8	1:AA:1241:G:H1'	2.47	0.48
1:AA:1252:A:C2	1:AA:1253:G:C8	3.01	0.48
1:AA:1330:U:C4	1:AA:1331:G:N7	2.80	0.48
1:AA:1407:C:C6	1:AA:1407:C:O5'	2.66	0.48
1:AA:1421:G:C2'	1:AA:1422:G:H5'	2.43	0.48
1:AA:1470:G:C6	1:AA:1471:G:C5	3.02	0.48
1:AA:138:G:C2	1:AA:226:G:C4	3.01	0.48
1:AA:250:A:H5'	1:AA:252:U:O4'	2.12	0.48
1:AA:118:U:O4	1:AA:289:G:O5'	2.31	0.48
1:AA:33:A:OP2	1:AA:398:C:H5'	2.13	0.48
1:AA:39:G:O2'	1:AA:40:C:H5'	2.12	0.48
1:AA:519:C:C2'	1:AA:520:A:C5'	2.81	0.48
1:AA:567:G:H21	1:AA:568:G:H1'	1.73	0.48
1:AA:708:C:C4'	13:AN:37:GLY:HA3	2.41	0.48
1:AA:741:G:H2'	1:AA:742:G:C8	2.45	0.48
1:AA:754:C:H5'	1:AA:755:G:H8	1.72	0.48
1:AA:826:C:N3	1:AA:827:U:C5	2.81	0.48
1:AA:842:C:C5'	1:AA:848:C:C2	2.93	0.48
1:AA:968:A:H5''	1:AA:969:A:C5'	2.43	0.48
4:AE:187:LEU:HD22	4:AE:201:ILE:O	2.13	0.48
4:AE:87:ARG:O	4:AE:88:ALA:C	2.51	0.48
5:AF:12:LEU:CD2	5:AF:13:GLY:N	2.76	0.48
6:AG:120:LEU:C	6:AG:120:LEU:HD12	2.33	0.48
6:AG:108:LEU:CD1	6:AG:183:GLY:HA3	2.44	0.48
6:AG:38:TYR:CB	6:AG:39:PRO:HD2	2.35	0.48
6:AG:88:VAL:HB	6:AG:91:SER:OG	2.14	0.48
7:AH:77:PRO:O	7:AH:78:HIS:C	2.51	0.48
8:AI:41:GLU:HB3	8:AI:62:TRP:CE3	2.39	0.48
9:AJ:23:VAL:HG12	9:AJ:24:THR:N	2.27	0.48
10:AK:79:VAL:O	10:AK:80:ILE:C	2.52	0.48
12:AM:51:ARG:NH2	12:AM:61:GLU:OE1	2.46	0.48
1:AA:690:G:OP2	13:AN:27:ASN:ND2	2.47	0.48
13:AN:32:ILE:HD12	13:AN:41:THR:OG1	2.13	0.48
14:AO:85:ILE:HA	14:AO:100:ILE:HA	1.95	0.48
15:AP:108:ARG:NH1	15:AP:112:GLY:H	2.11	0.48
15:AP:60:VAL:HA	15:AP:63:THR:HG22	1.95	0.48
17:AR:42:HIS:HE1	17:AR:46:HIS:CD2	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:66:LEU:N	17:AR:66:LEU:HD22	2.28	0.48
18:AS:3:LYS:HD2	18:AS:5:ARG:NH1	2.28	0.48
19:AT:5:VAL:O	19:AT:6:LEU:HG	2.13	0.48
19:AT:86:GLU:OE2	19:AT:89:LEU:HD12	2.13	0.48
20:AU:68:LYS:O	20:AU:72:ARG:HG3	2.12	0.48
44:BW:7:VAL:HG13	48:B1:31:ARG:NH2	2.28	0.48
49:B2:31:LEU:HD13	49:B2:32:GLN:OE1	2.13	0.48
49:B2:6:VAL:HG11	49:B2:35:ARG:CZ	2.43	0.48
50:B3:68:ARG:CA	50:B3:68:ARG:HH11	2.26	0.48
51:B4:9:LYS:O	51:B4:10:LYS:HG2	2.13	0.48
52:B5:16:CYS:O	52:B5:18:ARG:N	2.46	0.48
52:B5:9:LEU:HD13	52:B5:27:LYS:CD	2.43	0.48
24:BA:2286:A:C2	52:B5:29:ASN:ND2	2.81	0.48
53:B6:21:ARG:CB	53:B6:31:LEU:HD21	2.44	0.48
54:B7:10:ALA:O	54:B7:15:LYS:HE3	2.13	0.48
24:BA:1065:U:H2'	24:BA:1066:U:C4'	2.30	0.48
24:BA:1066:U:O4	33:BL:86:LYS:NZ	2.46	0.48
24:BA:1096:A:C8	24:BA:1097:U:C2	3.01	0.48
24:BA:1127:A:C8	24:BA:1127:A:C3'	2.95	0.48
24:BA:1020:A:N1	24:BA:1141:U:OP2	2.46	0.48
24:BA:1161:C:C2'	24:BA:1162:G:H5'	2.43	0.48
24:BA:1180:C:H3'	24:BA:1180:C:P	2.54	0.48
24:BA:330:A:H2	24:BA:1210:A:H2'	1.73	0.48
24:BA:1225:C:OP1	42:BU:88:ARG:NH1	2.46	0.48
24:BA:1242:A:H3'	24:BA:1243:G:C8	2.39	0.48
24:BA:1322:A:OP2	24:BA:1322:A:C8	2.62	0.48
24:BA:1342:A:C8	24:BA:1342:A:O5'	2.54	0.48
24:BA:1359:A:C5'	24:BA:1359:A:H8	2.25	0.48
24:BA:1419:A:H2'	24:BA:1420:U:O4'	2.12	0.48
24:BA:1473:G:N2	24:BA:1474:C:C2	2.81	0.48
24:BA:1491:G:P	24:BA:1492:G:OP2	2.71	0.48
24:BA:1479:G:N2	24:BA:1515:C:C4	2.81	0.48
24:BA:1469:A:N6	24:BA:1522:G:H22	2.11	0.48
24:BA:1591:G:C4	24:BA:1592:C:C5	3.01	0.48
24:BA:1656:C:H2'	24:BA:1657:C:C6	2.48	0.48
24:BA:1705:G:C5	24:BA:1706:U:C5	3.02	0.48
24:BA:1796:U:C2	24:BA:1797:C:C5	3.01	0.48
24:BA:1901:A:O2'	24:BA:1902:C:H5'	2.13	0.48
24:BA:1985:G:H2'	24:BA:1986:A:O5'	2.13	0.48
24:BA:1990:C:H2'	24:BA:1991:U:C6	2.48	0.48
24:BA:2029:G:C4	24:BA:2031:A:OP1	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2274:A:N6	24:BA:2276:G:C4	2.81	0.48
24:BA:2347:C:P	52:B5:24:GLU:OE2	2.70	0.48
24:BA:2447:G:C8	24:BA:2501:C:C6	3.00	0.48
24:BA:2064:C:O2'	24:BA:2450:A:N7	2.43	0.48
24:BA:2606:C:C5'	24:BA:2606:C:H6	2.16	0.48
24:BA:221:A:C8	24:BA:266:G:C5	3.01	0.48
24:BA:270(K):C:C4	24:BA:270(L):U:H1'	2.48	0.48
24:BA:2723:C:H2'	24:BA:2724:C:H5'	1.93	0.48
24:BA:2831:G:OP1	24:BA:2834:G:O2'	2.31	0.48
24:BA:2630:G:C4	24:BA:2894:G:C6	3.01	0.48
24:BA:470:A:C2	24:BA:471:A:C1'	2.82	0.48
24:BA:48:G:C4'	24:BA:52:A:H1'	2.43	0.48
24:BA:645:C:H4'	24:BA:646:A:C8	2.48	0.48
24:BA:691:C:C1'	27:BD:45:ASN:HD21	2.26	0.48
24:BA:721:C:C2	24:BA:722:A:N7	2.81	0.48
24:BA:807:U:H2'	24:BA:808:G:O5'	2.12	0.48
24:BA:916:G:O2'	25:BB:99:A:H1'	2.13	0.48
24:BA:936:C:C2'	24:BA:937:U:O5'	2.60	0.48
24:BA:943:U:H5''	24:BA:944:G:C5	2.47	0.48
25:BB:6:C:H5'	25:BB:27:C:C2'	2.43	0.48
25:BB:82:G:C2	25:BB:83:G:C5	3.01	0.48
24:BA:2226:C:C1'	27:BD:262:ARG:NH1	2.67	0.48
24:BA:2052:G:C1'	28:BE:150:VAL:HG23	2.42	0.48
28:BE:154:LYS:CE	28:BE:154:LYS:O	2.60	0.48
28:BE:102:VAL:HG13	28:BE:170:LEU:O	2.13	0.48
28:BE:172:VAL:C	28:BE:173:VAL:HG13	2.34	0.48
29:BF:160:ASN:OD1	29:BF:160:ASN:N	2.41	0.48
24:BA:1258:C:H5'	29:BF:84:VAL:CG2	2.43	0.48
30:BG:151:ALA:O	30:BG:152:LEU:HD23	2.12	0.48
31:BH:126:PRO:O	31:BH:127:GLU:CG	2.60	0.48
32:BK:27:ARG:HB2	32:BK:27:ARG:NH1	2.28	0.48
33:BL:132:ARG:NH2	33:BL:138:VAL:HG11	2.28	0.48
34:BM:30:ILE:O	34:BM:33:LEU:HD12	2.13	0.48
34:BM:37:LYS:HB2	34:BM:42:TRP:C	2.33	0.48
34:BM:44:PRO:O	34:BM:46:VAL:N	2.45	0.48
34:BM:23:LEU:HD11	34:BM:62:VAL:C	2.33	0.48
35:BN:71:ARG:CG	35:BN:72:PRO:HD3	2.21	0.48
36:BO:91:PHE:N	36:BO:125:VAL:CG1	2.76	0.48
36:BO:127:ALA:HB3	36:BO:130:PHE:HE2	1.78	0.48
37:BP:8:LYS:CD	37:BP:11:LYS:NZ	2.76	0.48
39:BR:71:ARG:N	39:BR:104:GLY:CA	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:30:ARG:CD	39:BR:91:PRO:CB	2.85	0.48
40:BS:23:ARG:NH2	40:BS:89:VAL:HA	2.28	0.48
41:BT:114:LYS:CG	41:BT:115:ALA:H	2.25	0.48
42:BU:11:GLN:HE22	42:BU:22:VAL:HB	1.76	0.48
42:BU:21:ARG:HH11	42:BU:21:ARG:CG	2.22	0.48
42:BU:62:LEU:HD11	42:BU:98:GLU:CG	2.41	0.48
43:BV:40:ASN:O	43:BV:41:LYS:HG3	2.13	0.48
44:BW:44:GLU:HA	44:BW:49:VAL:HG22	1.95	0.48
45:BX:16:ALA:O	45:BX:17:SER:HB3	2.13	0.48
45:BX:20:TYR:CD2	45:BX:20:TYR:N	2.81	0.48
45:BX:23:ARG:HH21	45:BX:39:VAL:CG1	2.25	0.48
45:BX:74:PRO:HB2	45:BX:101:LYS:H	1.78	0.48
45:BX:73:ARG:HB3	45:BX:77:PRO:O	2.13	0.48
46:BY:102:LEU:HD23	46:BY:125:LEU:N	2.28	0.48
46:BY:39:VAL:CG2	46:BY:44:PHE:CE2	2.87	0.48
26:BC:68:LEU:CD2	26:BC:156:ILE:O	2.60	0.48
26:BC:46:LYS:HD3	26:BC:210:ARG:CB	2.38	0.48
26:BC:78:ALA:CB	26:BC:82:LYS:HG3	2.43	0.48
1:AA:1025:U:C2'	1:AA:1026:G:C8	2.96	0.48
24:BA:1887:C:O2'	24:BA:2190:G:O2'	2.31	0.48
24:BA:718:A:H5''	24:BA:719:C:H5	1.73	0.48
47:BZ:5:LYS:HG2	47:BZ:6:GLY:H	1.76	0.48
1:AA:105:G:H2'	1:AA:106:C:C5	2.49	0.48
1:AA:1090:U:O2'	1:AA:1091:U:O4'	2.28	0.48
1:AA:1125:U:H4'	1:AA:1126:U:C5	2.41	0.48
1:AA:48:C:OP1	1:AA:115:G:OP1	2.31	0.48
1:AA:10:A:O2'	1:AA:11:G:H5'	2.13	0.48
1:AA:1221:G:OP1	21:AV:37:ARG:NH2	2.46	0.48
1:AA:1276:G:O2'	1:AA:1282:C:H4'	2.13	0.48
1:AA:131:C:N4	1:AA:232:G:N1	2.61	0.48
1:AA:1251:A:H2	1:AA:1354:C:H1'	1.78	0.48
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.31	0.48
1:AA:1410:G:C6	1:AA:1411:C:N4	2.82	0.48
1:AA:145:G:C6	1:AA:178:C:C4	3.01	0.48
1:AA:331:G:OP1	1:AA:332:G:C8	2.65	0.48
1:AA:59:A:O2'	1:AA:388:G:H5''	2.13	0.48
1:AA:415:A:H2'	1:AA:416:G:O4'	2.13	0.48
1:AA:440:A:C6	1:AA:494:U:C5	3.02	0.48
1:AA:560:U:C6	1:AA:566:G:C2	3.01	0.48
1:AA:560:U:C6	1:AA:566:G:N3	2.82	0.48
1:AA:625:G:C2	1:AA:626:U:C2	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:709:G:H2'	1:AA:710:G:O4'	2.13	0.48
1:AA:812:C:O2	1:AA:813:U:C5	2.65	0.48
1:AA:914:A:C6	1:AA:915:A:C6	3.01	0.48
3:AD:30:G:H2'	3:AD:31:A:C8	2.47	0.48
4:AE:47:THR:HG22	4:AE:51:LEU:HD21	1.94	0.48
4:AE:67:THR:CG2	4:AE:155:LEU:HD21	2.43	0.48
4:AE:75:LYS:HA	4:AE:75:LYS:CE	2.42	0.48
5:AF:29:TYR:CE1	12:AM:65:LEU:HD11	2.47	0.48
6:AG:57:ARG:CB	6:AG:206:PHE:HB2	2.33	0.48
6:AG:61:LYS:CA	6:AG:203:VAL:HG13	2.43	0.48
6:AG:78:LEU:HD21	6:AG:96:LEU:CG	2.43	0.48
7:AH:115:VAL:HG11	7:AH:118:ILE:CD1	2.40	0.48
8:AI:4:TYR:N	8:AI:4:TYR:CD2	2.81	0.48
8:AI:76:ALA:O	8:AI:80:ARG:CG	2.57	0.48
8:AI:84:ASN:O	8:AI:86:ARG:N	2.46	0.48
9:AJ:62:PHE:HA	9:AJ:124:LEU:HD21	1.94	0.48
9:AJ:5:ARG:C	9:AJ:7:ALA:H	2.16	0.48
10:AK:8:ASP:C	10:AK:8:ASP:OD2	2.51	0.48
11:AL:82:ALA:HB2	11:AL:101:PHE:CZ	2.48	0.48
11:AL:85:LEU:HD11	11:AL:92:TYR:HE1	1.79	0.48
1:AA:969:A:C2'	12:AM:55:LYS:HZ1	2.25	0.48
12:AM:5:ARG:HB2	12:AM:5:ARG:NH1	2.28	0.48
12:AM:8:LEU:HD22	12:AM:95:GLU:H	1.78	0.48
14:AO:41:ARG:O	14:AO:42:THR:HB	2.12	0.48
15:AP:110:ARG:HB2	15:AP:110:ARG:HH11	1.78	0.48
1:AA:1308:U:C3'	15:AP:99:ARG:NH2	2.70	0.48
17:AR:76:GLU:CG	17:AR:77:ARG:N	2.71	0.48
18:AS:35:LYS:HE3	18:AS:37:GLY:H	1.77	0.48
19:AT:9:VAL:HG22	19:AT:10:VAL:N	2.27	0.48
20:AU:21:LYS:CE	20:AU:23:LYS:HB3	2.43	0.48
21:AV:11:VAL:HG13	21:AV:38:SER:HB2	1.94	0.48
21:AV:24:ALA:HB3	21:AV:25:LYS:HZ3	1.77	0.48
1:AA:191:G:C1'	22:AW:105:SER:HA	2.41	0.48
22:AW:64:ASP:OD2	22:AW:81:LYS:HE3	2.13	0.48
1:AA:1286:A:H5''	23:AX:25:LYS:CE	2.43	0.48
48:B1:63:ARG:O	48:B1:66:ASN:ND2	2.46	0.48
50:B3:65:ASP:CB	50:B3:69:LYS:HE3	2.39	0.48
24:BA:1024:G:H5'	24:BA:1025:G:H3'	1.94	0.48
24:BA:1058:G:C6	24:BA:1081:U:N3	2.81	0.48
24:BA:1114:G:C6	24:BA:1115:G:C8	3.02	0.48
24:BA:1023:U:H5'	24:BA:1123:C:OP1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1171:G:N2	24:BA:1179:C:N3	2.60	0.48
24:BA:330:A:H4'	24:BA:1210:A:N1	2.29	0.48
24:BA:1224:G:O6	24:BA:1225:C:N3	2.46	0.48
24:BA:1225:C:OP1	42:BU:88:ARG:NH2	2.45	0.48
24:BA:11:G:O2'	24:BA:12:U:H5'	2.13	0.48
24:BA:1360:A:H2'	24:BA:1361:G:O5'	2.13	0.48
24:BA:1487:G:N2	24:BA:1503:U:C2	2.81	0.48
24:BA:149:A:N7	24:BA:150:C:C2	2.81	0.48
24:BA:1591:G:N1	24:BA:1592:C:C4	2.81	0.48
24:BA:1699:G:C5	24:BA:1763:G:N3	2.82	0.48
24:BA:1772:G:C2	24:BA:1980:G:C2	3.01	0.48
24:BA:1789:A:P	27:BD:222:ARG:CG	2.93	0.48
24:BA:1944:U:O2	24:BA:1955:U:C6	2.61	0.48
24:BA:2058:A:C2	24:BA:2059:A:N6	2.80	0.48
24:BA:189:G:C2	24:BA:205:G:N2	2.81	0.48
24:BA:217:G:C6	24:BA:218:A:C4	3.01	0.48
24:BA:2349:G:C6	24:BA:2369:A:C6	3.02	0.48
24:BA:2415:G:P	36:BO:61:ARG:HH21	2.36	0.48
24:BA:245:G:C6	24:BA:246:C:C5	3.02	0.48
24:BA:2491:U:N1	24:BA:2492:U:H5'	2.20	0.48
24:BA:2513:G:C5	24:BA:2514:U:C4	3.02	0.48
24:BA:2543:G:O6	24:BA:2544:G:N1	2.46	0.48
24:BA:2557:G:H2'	24:BA:2558:C:C5	2.47	0.48
24:BA:2564:A:C6	24:BA:2565:A:N6	2.81	0.48
24:BA:2584:U:C6	24:BA:2584:U:C3'	2.92	0.48
24:BA:2603:G:OP2	47:BZ:1:MET:CB	2.60	0.48
24:BA:2646:C:C2'	24:BA:2647:U:O5'	2.60	0.48
24:BA:1639:U:O2'	24:BA:2699:C:H4'	2.13	0.48
24:BA:2706:G:N1	24:BA:2707:G:C5	2.81	0.48
24:BA:2713:A:C3'	24:BA:2714:G:H5'	2.43	0.48
24:BA:2864:G:C2	24:BA:2865:U:N3	2.82	0.48
24:BA:294:A:C3'	24:BA:295:G:H5'	2.41	0.48
24:BA:295:G:H1'	24:BA:345:A:C2	2.49	0.48
24:BA:416:C:H3'	24:BA:416:C:C6	2.48	0.48
24:BA:433:C:C3'	24:BA:434:U:C6	2.96	0.48
24:BA:46:C:OP2	24:BA:215:G:H2'	2.12	0.48
24:BA:51:G:H2'	24:BA:119:A:H2	1.76	0.48
24:BA:523:C:H5''	24:BA:541:C:O2'	2.13	0.48
24:BA:566:U:C3'	24:BA:567:A:H8	2.24	0.48
24:BA:573:G:C2'	24:BA:574:C:C5'	2.91	0.48
24:BA:584:C:OP2	41:BT:10:ARG:NH2	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:602:G:H21	24:BA:655:A:C2'	2.20	0.48
24:BA:624:C:H2'	24:BA:657:U:OP1	2.13	0.48
24:BA:802:A:C5	24:BA:803:U:C4	3.01	0.48
24:BA:811:U:C3'	24:BA:811:U:C6	2.96	0.48
24:BA:907:U:O2	24:BA:908:C:C6	2.66	0.48
24:BA:89:G:C2	24:BA:90:U:O4	2.66	0.48
25:BB:14:U:HO2'	25:BB:15:A:P	2.36	0.48
27:BD:64:ILE:HG23	27:BD:104:TYR:CD2	2.47	0.48
28:BE:4:ILE:O	28:BE:4:ILE:CG1	2.61	0.48
29:BF:109:GLY:O	29:BF:112:MET:N	2.46	0.48
29:BF:8:GLN:HB3	29:BF:18:ARG:CA	2.43	0.48
30:BG:105:LYS:O	30:BG:109:VAL:HG13	2.13	0.48
30:BG:120:LEU:O	30:BG:121:ASN:C	2.51	0.48
30:BG:55:LYS:CE	30:BG:151:ALA:HB3	2.42	0.48
30:BG:27:ASN:HB3	30:BG:29:TRP:CE2	2.48	0.48
30:BG:56:ALA:C	30:BG:68:PRO:HG2	2.34	0.48
31:BH:163:TYR:N	31:BH:163:TYR:CD1	2.80	0.48
33:BL:21:PRO:CG	33:BL:22:PRO:CD	2.90	0.48
33:BL:24:GLY:HA2	33:BL:34:ILE:CG2	2.43	0.48
34:BM:109:LYS:HG2	34:BM:112:LEU:CA	2.43	0.48
35:BN:17:ARG:O	35:BN:17:ARG:HG2	2.14	0.48
35:BN:7:TYR:CB	35:BN:18:LYS:CE	2.90	0.48
35:BN:41:ALA:O	35:BN:56:ASP:CA	2.61	0.48
36:BO:76:LYS:CE	36:BO:101:VAL:HG21	2.40	0.48
36:BO:112:LEU:HD12	36:BO:127:ALA:HB1	1.93	0.48
37:BP:77:LYS:HE3	37:BP:87:LYS:CG	2.41	0.48
37:BP:93:TYR:CD1	37:BP:93:TYR:N	2.81	0.48
38:BQ:86:ARG:NH1	38:BQ:86:ARG:HB2	2.27	0.48
24:BA:2845:G:C5'	40:BS:57:PHE:O	2.61	0.48
40:BS:67:SER:CB	40:BS:75:ILE:HG23	2.43	0.48
40:BS:67:SER:OG	40:BS:75:ILE:HG23	2.13	0.48
40:BS:62:THR:HG23	40:BS:79:HIS:HA	1.93	0.48
41:BT:106:PHE:O	41:BT:110:VAL:HG23	2.13	0.48
43:BV:36:LEU:CD1	43:BV:48:ALA:HB2	2.43	0.48
44:BW:49:VAL:HG12	44:BW:88:LYS:HB2	1.93	0.48
24:BA:85:G:OP1	45:BX:8:LYS:CE	2.60	0.48
46:BY:140:ASP:OD2	46:BY:140:ASP:C	2.51	0.48
46:BY:18:LEU:C	46:BY:23:LYS:O	2.52	0.48
32:BK:87:LYS:HZ3	32:BK:122:GLU:N	2.12	0.48
3:AD:19:G:C2	3:AD:56:C:O2	2.66	0.48
24:BA:2166:G:O5'	24:BA:2166:G:H8	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:79:LYS:HG3	26:BC:118:ASP:OD1	2.12	0.48
26:BC:28:LEU:O	26:BC:32:LEU:HG	2.14	0.48
24:BA:154:G:C2	24:BA:155:C:C2	3.02	0.48
24:BA:2246:G:O2'	24:BA:2247:A:H5'	2.11	0.48
24:BA:1414:G:N1	24:BA:1415:U:C4	2.81	0.48
52:B5:54:ILE:HG23	52:B5:54:ILE:OXT	2.13	0.48
1:AA:1104:G:C4	1:AA:1105:A:C8	3.01	0.48
1:AA:1200:C:OP2	1:AA:1200:C:H4'	2.12	0.48
1:AA:1223:C:C5'	1:AA:1224:G:H5''	2.43	0.48
1:AA:1251:A:H2'	1:AA:1252:A:N9	2.26	0.48
1:AA:1419:G:H2'	1:AA:1420:C:C5	2.48	0.48
1:AA:197:A:C6	1:AA:221:C:C4'	2.84	0.48
1:AA:182:U:O4	1:AA:223:U:H1'	2.13	0.48
1:AA:270:A:C5	1:AA:271:C:C5	3.01	0.48
1:AA:315:A:C6	1:AA:330:C:C6	3.02	0.48
1:AA:357:G:OP1	1:AA:367:U:H3'	2.13	0.48
1:AA:46:G:C2	1:AA:366:C:C2	3.01	0.48
1:AA:376:G:OP1	18:AS:6:LEU:CD1	2.57	0.48
1:AA:38:G:H22	1:AA:397:A:H5''	1.72	0.48
1:AA:393:A:H5'	1:AA:483:C:H4'	1.95	0.48
1:AA:467:G:O2'	1:AA:468:A:H5'	2.14	0.48
1:AA:468:A:C8	1:AA:474:G:N7	2.81	0.48
1:AA:511:C:C2	1:AA:512:U:C5	3.02	0.48
1:AA:671:G:H2'	1:AA:672:U:C1'	2.44	0.48
1:AA:689:C:N3	1:AA:690:G:C5	2.81	0.48
1:AA:755:G:O2'	10:AK:1:MET:HE1	2.12	0.48
1:AA:826:C:C2	1:AA:827:U:C5	3.01	0.48
1:AA:962:C:H2'	1:AA:963:G:C8	2.48	0.48
3:AD:30:G:H21	9:AJ:144:MET:HE1	1.78	0.48
4:AE:160:ASP:O	4:AE:161:ALA:CB	2.61	0.48
4:AE:32:ILE:CG2	4:AE:32:ILE:O	2.61	0.48
5:AF:105:GLU:HG2	5:AF:105:GLU:O	2.13	0.48
5:AF:20:SER:N	5:AF:40:ARG:HH22	2.12	0.48
5:AF:78:GLY:HA3	5:AF:82:GLU:OE1	2.13	0.48
6:AG:195:ALA:HB3	6:AG:196:LEU:HD23	1.95	0.48
6:AG:20:TYR:C	6:AG:22:LYS:H	2.15	0.48
6:AG:22:LYS:CB	6:AG:26:CYS:CB	2.88	0.48
6:AG:65:ARG:NE	6:AG:72:GLU:CA	2.76	0.48
7:AH:127:ASN:OD1	7:AH:127:ASN:C	2.51	0.48
9:AJ:79:ARG:CZ	9:AJ:84:ASN:CB	2.91	0.48
10:AK:10:LEU:CA	10:AK:13:ILE:HD12	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:21:GLN:HG2	12:AM:22:LYS:N	2.27	0.48
12:AM:48:THR:O	12:AM:49:VAL:HG23	2.12	0.48
14:AO:117:ARG:NH2	14:AO:124:LYS:CA	2.77	0.48
14:AO:87:GLY:HA2	14:AO:98:TYR:CB	2.35	0.48
15:AP:8:GLU:CG	15:AP:22:ILE:HG12	2.43	0.48
16:AQ:31:ARG:O	16:AQ:33:VAL:HG22	2.14	0.48
17:AR:5:LYS:NZ	17:AR:5:LYS:CB	2.73	0.48
17:AR:81:LEU:O	17:AR:82:ILE:C	2.51	0.48
18:AS:68:ASP:O	18:AS:71:ARG:HB3	2.12	0.48
1:AA:279:A:P	19:AT:95:TYR:OH	2.71	0.48
8:AI:50:TYR:OH	20:AU:74:ARG:O	2.25	0.48
21:AV:16:LEU:O	21:AV:17:GLU:C	2.52	0.48
21:AV:15:LEU:HD11	21:AV:38:SER:CB	2.44	0.48
22:AW:51:GLU:HB3	22:AW:54:LYS:NZ	2.28	0.48
22:AW:62:LEU:HA	22:AW:65:LYS:HG3	1.93	0.48
22:AW:96:GLY:O	22:AW:97:ALA:O	2.31	0.48
49:B2:52:HIS:C	49:B2:54:VAL:H	2.15	0.48
24:BA:2230:G:H1'	50:B3:58:ARG:NH2	2.28	0.48
24:BA:2046:G:OP1	51:B4:18:ALA:HB3	2.13	0.48
51:B4:21:SER:H	51:B4:21:SER:HG	1.33	0.48
24:BA:2615:U:O4'	51:B4:7:PRO:HB3	2.12	0.48
24:BA:2286:A:N1	52:B5:29:ASN:ND2	2.61	0.48
54:B7:52:LYS:O	54:B7:56:GLU:OE1	2.31	0.48
24:BA:1049:C:N3	24:BA:2751:G:O6	2.47	0.48
24:BA:1099:G:H2'	24:BA:1099:G:N3	2.27	0.48
24:BA:1154:G:OP1	41:BT:62:ILE:CD1	2.53	0.48
24:BA:1155:A:H2'	24:BA:1156:A:C5'	2.35	0.48
24:BA:996:A:C6	24:BA:1160:G:C2	3.01	0.48
24:BA:1186:G:H3'	24:BA:1187:G:C8	2.48	0.48
24:BA:1208:C:N4	24:BA:1209:G:O6	2.46	0.48
24:BA:1243:G:N1	24:BA:1244:G:C5	2.82	0.48
24:BA:1270:C:H1'	24:BA:1325:G:C5	2.48	0.48
24:BA:1278:A:O3'	38:BQ:34:ILE:HG23	2.12	0.48
24:BA:1286:A:C2	24:BA:1329:U:C4	3.01	0.48
24:BA:1308:A:N3	24:BA:1309:G:H1'	2.28	0.48
24:BA:1511:A:C2	24:BA:1512:G:C1'	2.95	0.48
24:BA:1527:G:C2'	24:BA:1528:A:N3	2.76	0.48
24:BA:1543:A:H3'	24:BA:1544:C:H4'	1.96	0.48
24:BA:1568:G:O2'	24:BA:1569:A:OP2	2.23	0.48
24:BA:1657:C:OP1	28:BE:136:ARG:O	2.32	0.48
24:BA:1672:C:H2'	24:BA:1673:U:C4'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1799:G:O2'	24:BA:1800:C:C4'	2.61	0.48
24:BA:1842:G:C4	24:BA:1843:C:C5	3.01	0.48
24:BA:1951:U:O2	24:BA:1953:A:OP2	2.31	0.48
24:BA:2072:G:H2'	24:BA:2073:C:C6	2.48	0.48
24:BA:2306:C:N3	30:BG:46:ALA:HB2	2.28	0.48
24:BA:2327:A:C4	24:BA:2328:A:N7	2.82	0.48
24:BA:224:G:O6	24:BA:232:G:N2	2.47	0.48
24:BA:2360:A:H2'	24:BA:2361:A:O4'	2.12	0.48
24:BA:2401:U:OP2	24:BA:2402:C:N4	2.47	0.48
24:BA:2404:C:C4	24:BA:2414:G:C2	3.01	0.48
24:BA:245:G:C5	24:BA:246:C:C5	3.01	0.48
24:BA:2543:G:C6	24:BA:2544:G:C6	3.01	0.48
24:BA:265:A:H2	24:BA:281:G:C8	2.30	0.48
24:BA:2694:G:H2'	24:BA:2695:C:C5'	2.43	0.48
24:BA:270(C):C:N4	24:BA:270(D):C:N4	2.62	0.48
24:BA:270(X):G:H2'	24:BA:270(Y):G:H4'	1.95	0.48
24:BA:2819:G:C3'	24:BA:2821:A:H62	2.27	0.48
24:BA:285:C:H2'	24:BA:286:C:C5	2.47	0.48
24:BA:351:G:C2'	24:BA:352:G:OP2	2.61	0.48
24:BA:391:G:C8	24:BA:392:C:H5	2.31	0.48
24:BA:403:U:C2'	24:BA:403:U:O2	2.48	0.48
24:BA:446:G:N7	41:BT:3:ARG:NH2	2.62	0.48
24:BA:470:A:C2'	24:BA:471:A:O5'	2.61	0.48
24:BA:447:A:C5	24:BA:473:G:C4	3.02	0.48
24:BA:527:C:H2'	34:BM:114:ARG:CZ	2.44	0.48
24:BA:569:U:O4'	24:BA:946:G:O2'	2.22	0.48
24:BA:570:G:N1	24:BA:2030:A:C2	2.81	0.48
24:BA:677:A:C4	24:BA:678:C:C5	3.01	0.48
24:BA:715:G:C5	24:BA:716:A:C6	3.01	0.48
24:BA:72:U:O4	24:BA:112:U:C1'	2.54	0.48
24:BA:827:U:C6	24:BA:2430:A:C2	3.01	0.48
24:BA:918:A:H3'	24:BA:919:G:H8	1.77	0.48
24:BA:922:U:H2'	24:BA:922:U:O2	2.14	0.48
24:BA:948:G:H1'	24:BA:984:A:C5	2.48	0.48
25:BB:37:C:C2	25:BB:49:C:O4'	2.66	0.48
25:BB:87:G:H1	25:BB:90:C:N4	2.11	0.48
27:BD:12:SER:O	27:BD:13:ARG:C	2.52	0.48
24:BA:1791:A:O3'	27:BD:206:LEU:HD21	2.13	0.48
27:BD:6:PHE:O	27:BD:27:THR:CG2	2.62	0.48
28:BE:104:VAL:HG13	28:BE:105:THR:H	1.77	0.48
28:BE:196:VAL:C	28:BE:197:ILE:CD1	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:196:VAL:O	28:BE:197:ILE:HG13	2.12	0.48
28:BE:60:ASN:O	28:BE:63:LEU:N	2.47	0.48
29:BF:197:ASP:O	29:BF:200:GLU:N	2.46	0.48
29:BF:83:PHE:O	29:BF:84:VAL:C	2.51	0.48
30:BG:138:GLN:NE2	30:BG:152:LEU:HD12	2.24	0.48
31:BH:103:LEU:O	31:BH:104:GLU:CB	2.49	0.48
31:BH:26:VAL:CG1	31:BH:76:VAL:CG1	2.89	0.48
31:BH:52:VAL:HG11	31:BH:69:ARG:CB	2.28	0.48
31:BH:63:SER:O	31:BH:67:LEU:HD23	2.12	0.48
24:BA:1062:G:HO2'	33:BL:134:MET:HB2	1.76	0.48
24:BA:1006:C:H4'	34:BM:32:THR:OG1	2.14	0.48
35:BN:35:VAL:HG22	35:BN:64:ARG:HD3	1.93	0.48
36:BO:89:ALA:O	36:BO:125:VAL:HA	2.14	0.48
36:BO:23:PRO:CB	36:BO:29:LYS:N	2.74	0.48
36:BO:78:PRO:HD2	36:BO:115:LEU:O	2.14	0.48
37:BP:41:TRP:HB2	37:BP:94:VAL:HG21	1.90	0.48
38:BQ:44:LEU:HD12	38:BQ:48:VAL:HG21	1.94	0.48
39:BR:102:ALA:O	39:BR:103:GLU:C	2.52	0.48
39:BR:12:PHE:CD1	39:BR:12:PHE:C	2.87	0.48
39:BR:17:ARG:O	39:BR:20:ARG:CG	2.59	0.48
40:BS:64:ARG:CZ	40:BS:77:PRO:HB2	2.43	0.48
41:BT:59:ARG:O	41:BT:62:ILE:N	2.46	0.48
42:BU:57:VAL:CG1	42:BU:58:VAL:H	2.27	0.48
42:BU:62:LEU:HD22	42:BU:98:GLU:CA	2.39	0.48
43:BV:59:VAL:O	43:BV:59:VAL:HG12	2.13	0.48
43:BV:21:VAL:HG13	43:BV:75:TYR:CD2	2.48	0.48
43:BV:96:ILE:HD13	43:BV:96:ILE:N	2.28	0.48
44:BW:8:ILE:HG13	44:BW:9:LEU:CG	2.43	0.48
45:BX:31:LEU:HB3	45:BX:32:PRO:HD2	1.91	0.48
45:BX:32:PRO:CB	45:BX:34:LYS:HE3	2.43	0.48
45:BX:86:ARG:CB	45:BX:86:ARG:CZ	2.91	0.48
46:BY:102:LEU:HB2	46:BY:124:ILE:CA	2.43	0.48
46:BY:105:VAL:CB	46:BY:140:ASP:OD1	2.59	0.48
24:BA:922:U:HO2'	47:BZ:26:TYR:HD2	1.53	0.48
24:BA:858:U:OP2	47:BZ:44:ARG:NH2	2.46	0.48
47:BZ:70:GLN:OE1	47:BZ:80:HIS:NE2	2.46	0.48
32:BK:81:VAL:HG21	32:BK:123:LEU:CD1	2.43	0.48
3:AD:18:G:N3	3:AD:19:G:H1'	2.29	0.48
26:BC:103:ILE:O	26:BC:104:LEU:C	2.50	0.48
26:BC:123:VAL:HG12	26:BC:127:LEU:HD12	1.93	0.48
24:BA:2121:G:O2'	26:BC:167:LYS:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:100:LYS:C	19:AT:101:ARG:HD2	2.34	0.48
24:BA:276:A:C2'	24:BA:276:A:N3	2.76	0.48
1:AA:1134:G:N3	1:AA:1134:G:H2'	2.28	0.48
1:AA:978:A:C2	1:AA:1319:A:N3	2.82	0.48
1:AA:145:G:C6	1:AA:178:C:N4	2.82	0.48
1:AA:237:C:O5'	19:AT:25:ARG:NH2	2.46	0.48
1:AA:522:C:H41	1:AA:523:A:H62	1.61	0.48
1:AA:542:G:N2	1:AA:543:C:H1'	2.28	0.48
1:AA:659:U:C2	1:AA:660:G:C8	3.02	0.48
1:AA:79:G:H2'	1:AA:80:G:O4'	2.12	0.48
1:AA:862:C:C1'	1:AA:874:G:H4'	2.43	0.48
1:AA:889:A:C4'	1:AA:890:G:OP1	2.61	0.48
1:AA:900:A:C2'	1:AA:901:A:O5'	2.61	0.48
1:AA:966:G:N3	2:AC:34:C:H5'	2.28	0.48
2:AC:58:A:O2'	2:AC:59:A:P	2.71	0.48
4:AE:161:ALA:CA	4:AE:183:PRO:HB2	2.25	0.48
4:AE:163:PHE:CD1	4:AE:185:ILE:HG13	2.49	0.48
6:AG:52:SER:O	6:AG:54:TYR:N	2.46	0.48
7:AH:107:ARG:NH1	7:AH:107:ARG:HB2	2.28	0.48
7:AH:109:ILE:HG23	7:AH:110:LEU:HD23	1.92	0.48
7:AH:151:LEU:N	7:AH:151:LEU:HD22	2.28	0.48
8:AI:47:ARG:HD3	8:AI:57:GLN:CB	2.43	0.48
9:AJ:92:SER:CB	9:AJ:93:PRO:HD2	2.43	0.48
9:AJ:93:PRO:O	9:AJ:96:GLN:N	2.47	0.48
10:AK:112:LEU:CD1	10:AK:133:LEU:HD23	2.44	0.48
10:AK:29:SER:C	10:AK:32:LYS:NZ	2.66	0.48
11:AL:37:PHE:CE1	11:AL:74:ILE:CG2	2.91	0.48
11:AL:49:PRO:CD	11:AL:78:LYS:HZ3	2.25	0.48
13:AN:42:TRP:HZ3	13:AN:47:VAL:HG11	1.78	0.48
14:AO:117:ARG:O	14:AO:118:SER:C	2.51	0.48
15:AP:3:ARG:NH2	30:BG:141:PHE:H	2.09	0.48
15:AP:48:LEU:HD22	15:AP:49:THR:O	2.14	0.48
16:AQ:13:THR:O	16:AQ:13:THR:HG22	2.14	0.48
19:AT:34:LYS:HD2	19:AT:35:VAL:H	1.79	0.48
19:AT:74:LEU:O	19:AT:75:ARG:CB	2.61	0.48
8:AI:91:VAL:CG1	20:AU:72:ARG:NH2	2.76	0.48
22:AW:20:LEU:O	22:AW:21:LYS:C	2.51	0.48
22:AW:42:GLN:O	22:AW:43:LEU:C	2.50	0.48
48:B1:28:MET:O	48:B1:31:ARG:HB2	2.13	0.48
48:B1:37:GLY:O	48:B1:38:GLN:HB2	2.13	0.48
48:B1:47:ASP:O	48:B1:48:LEU:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:17:LYS:O	49:B2:18:ASP:C	2.51	0.48
24:BA:850:C:HO2'	49:B2:22:ALA:HB2	1.78	0.48
49:B2:4:LEU:CB	49:B2:37:LEU:HD13	2.44	0.48
24:BA:2046:G:OP1	51:B4:18:ALA:HB1	2.12	0.48
51:B4:44:THR:N	51:B4:52:TYR:HH	2.12	0.48
53:B6:30:VAL:HG22	53:B6:33:ARG:NH2	2.27	0.48
54:B7:16:ILE:CA	54:B7:22:VAL:HG22	2.43	0.48
24:BA:1048:A:N1	24:BA:1049:C:H1'	2.27	0.48
24:BA:1044:G:C2	24:BA:1111:A:H1'	2.49	0.48
24:BA:1122:G:N2	24:BA:1123:C:C2	2.82	0.48
24:BA:1182:A:C6	24:BA:1183:G:C6	3.01	0.48
24:BA:1199:U:OP2	24:BA:1199:U:H6	1.96	0.48
24:BA:118:A:OP2	24:BA:119:A:C8	2.67	0.48
24:BA:1223:C:C5	24:BA:1227:A:N6	2.81	0.48
24:BA:126:A:N6	24:BA:127:A:C2	2.81	0.48
24:BA:146:G:H2'	24:BA:147:U:C5'	2.41	0.48
24:BA:1483:G:N3	24:BA:1483:G:C2'	2.74	0.48
24:BA:1633:G:C5	24:BA:1635:G:N1	2.82	0.48
24:BA:1729:A:C8	24:BA:1731:G:O6	2.65	0.48
24:BA:1753:G:C3'	24:BA:1753:G:C8	2.96	0.48
24:BA:1916:A:O4'	24:BA:1916:A:OP2	2.32	0.48
24:BA:2013:A:OP1	43:BV:96:ILE:HG22	2.13	0.48
24:BA:204:A:H8	24:BA:204:A:OP1	1.97	0.48
24:BA:2053:G:C2'	24:BA:2054:A:O5'	2.61	0.48
24:BA:221:A:N9	24:BA:266:G:N7	2.62	0.48
24:BA:2277:G:C5'	24:BA:2278:A:OP2	2.62	0.48
24:BA:2280:G:C2	24:BA:2281:C:C5	3.01	0.48
24:BA:227:A:C2'	24:BA:228:A:OP2	2.61	0.48
24:BA:2305:A:N3	30:BG:156:ASP:N	2.61	0.48
24:BA:2355:C:O3'	47:BZ:24:LYS:HD3	2.13	0.48
24:BA:2408:U:C2	24:BA:2409:G:N7	2.82	0.48
24:BA:2468:G:H2'	24:BA:2476:A:H2	1.78	0.48
24:BA:2504:U:H2'	24:BA:2505:G:H5'	1.95	0.48
24:BA:1128:A:N6	24:BA:2518:A:N6	2.62	0.48
24:BA:2555:U:C5	24:BA:2556:C:C6	2.86	0.48
24:BA:2556:C:C2'	24:BA:2557:G:C5'	2.91	0.48
24:BA:262:A:HO2'	24:BA:263:C:P	2.36	0.48
24:BA:2666:C:H6	24:BA:2667:C:O4'	1.97	0.48
24:BA:2793:G:H2'	24:BA:2794:C:C6	2.48	0.48
24:BA:2801:A:OP1	24:BA:2802:G:O5'	2.32	0.48
24:BA:2816:C:H1'	24:BA:2831:G:N2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:300:A:O4'	24:BA:318:C:O2'	2.30	0.48
24:BA:331:A:C2	24:BA:1209:G:C6	3.02	0.48
24:BA:379:G:C6	24:BA:396:G:C6	3.01	0.48
24:BA:581:C:H5''	41:BT:32:PHE:CZ	2.48	0.48
24:BA:623:G:C3'	24:BA:624:C:H5''	2.42	0.48
24:BA:653:A:N6	24:BA:655:A:C2	2.78	0.48
24:BA:744:G:OP1	28:BE:131:ALA:O	2.31	0.48
24:BA:846:C:C4'	24:BA:847:U:C6	2.92	0.48
24:BA:848:G:H5''	24:BA:848:G:C8	2.48	0.48
25:BB:96:G:H2'	25:BB:97:G:H8	1.78	0.48
27:BD:132:PRO:HB2	27:BD:134:ARG:HD3	1.95	0.48
28:BE:109:LYS:HG3	28:BE:191:PRO:HG3	1.93	0.48
28:BE:197:ILE:CB	28:BE:199:ARG:NH2	2.76	0.48
28:BE:91:VAL:HG21	28:BE:93:VAL:CG1	2.44	0.48
28:BE:92:THR:HA	28:BE:95:ILE:HG21	1.94	0.48
29:BF:155:LEU:CG	29:BF:174:VAL:HG21	2.43	0.48
29:BF:45:ARG:HG2	29:BF:97:TYR:CB	2.39	0.48
29:BF:56:GLU:C	29:BF:60:SER:OG	2.52	0.48
30:BG:118:ARG:CZ	30:BG:120:LEU:CD2	2.72	0.48
30:BG:141:PHE:HE2	30:BG:145:THR:HB	1.77	0.48
30:BG:169:ALA:O	30:BG:172:LEU:CB	2.54	0.48
30:BG:30:GLU:HG3	30:BG:162:THR:HG21	1.95	0.48
30:BG:78:SER:OG	30:BG:83:ARG:HA	2.13	0.48
30:BG:93:THR:HG22	30:BG:95:ARG:HH21	1.79	0.48
30:BG:36:LYS:HE3	30:BG:95:ARG:NE	2.28	0.48
30:BG:6:ALA:HA	30:BG:9:ARG:CZ	2.41	0.48
31:BH:125:VAL:HA	31:BH:131:VAL:CG2	2.30	0.48
31:BH:44:VAL:CG2	31:BH:46:GLU:HG2	2.44	0.48
31:BH:51:ARG:O	31:BH:53:GLU:OE2	2.31	0.48
34:BM:100:GLU:O	34:BM:101:HIS:C	2.52	0.48
34:BM:107:LEU:HD23	34:BM:107:LEU:O	2.13	0.48
34:BM:35:ARG:H	34:BM:35:ARG:HG3	1.42	0.48
34:BM:75:TYR:CD1	34:BM:75:TYR:N	2.81	0.48
34:BM:75:TYR:O	34:BM:76:SER:O	2.31	0.48
35:BN:112:MET:O	35:BN:115:VAL:CB	2.61	0.48
35:BN:97:ARG:CB	35:BN:118:ALA:HB2	2.40	0.48
37:BP:27:VAL:CG1	37:BP:104:PHE:HE2	2.24	0.48
37:BP:46:GLN:O	37:BP:49:ALA:N	2.46	0.48
24:BA:2275:C:O2'	37:BP:84:GLY:O	2.29	0.48
38:BQ:105:ARG:O	38:BQ:107:ASP:N	2.47	0.48
38:BQ:20:LEU:HD11	38:BQ:24:GLN:OE1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:19:LYS:O	41:BT:20:LEU:C	2.52	0.48
44:BW:50:LYS:CE	44:BW:88:LYS:HG2	2.43	0.48
32:BK:114:LEU:HA	32:BK:130:TYR:CA	2.44	0.48
26:BC:45:ALA:CB	26:BC:211:SER:O	2.52	0.48
26:BC:215:THR:HB	26:BC:221:SER:CB	2.43	0.48
24:BA:172:C:O5'	24:BA:172:C:H6	1.96	0.48
5:AF:60:ALA:HB2	12:AM:92:THR:HG1	1.75	0.48
1:AA:1071:C:N4	1:AA:1084:G:H21	2.11	0.48
1:AA:1189:C:OP2	1:AA:1189:C:H6	1.97	0.48
1:AA:137:C:C2'	1:AA:138:G:C5'	2.90	0.48
1:AA:1443:G:O2'	1:AA:1446:A:H4'	2.13	0.48
1:AA:141:A:H1'	1:AA:182:U:C2	2.49	0.48
1:AA:394:G:C6	1:AA:395:C:N4	2.82	0.48
1:AA:468:A:C5	1:AA:474:G:C5	3.02	0.48
1:AA:482:A:C2	1:AA:483:C:C2	3.01	0.48
1:AA:483:C:N4	1:AA:484:G:N1	2.62	0.48
1:AA:483:C:OP2	1:AA:483:C:C6	2.66	0.48
1:AA:52:G:C2'	1:AA:53:A:C5'	2.91	0.48
1:AA:57:G:H2'	1:AA:58:C:H6	1.78	0.48
1:AA:715:A:C4'	1:AA:777:A:H61	2.26	0.48
1:AA:856:C:C2'	1:AA:857:C:H5'	2.42	0.48
1:AA:892:A:C6	1:AA:907:A:C8	3.02	0.48
1:AA:99:C:O5'	1:AA:99:C:H6	1.97	0.48
2:AC:56:C:H2'	30:BG:82:LEU:HB3	1.95	0.48
2:AC:71:C:N3	2:AC:72:A:N7	2.61	0.48
3:AD:39:U:H2'	3:AD:40:C:O4'	2.13	0.48
4:AE:68:ILE:HD12	4:AE:70:PHE:CZ	2.47	0.48
5:AF:91:LEU:CD2	5:AF:92:ALA:N	2.76	0.48
6:AG:70:ILE:HD12	6:AG:100:ARG:CZ	2.44	0.48
6:AG:187:ARG:CG	6:AG:188:LEU:N	2.65	0.48
6:AG:191:ARG:O	6:AG:193:ASP:N	2.47	0.48
6:AG:30:LYS:HG2	6:AG:35:ARG:CG	2.43	0.48
7:AH:70:PRO:CB	7:AH:143:ARG:HA	2.43	0.48
7:AH:39:GLY:O	7:AH:69:VAL:CG2	2.58	0.48
7:AH:40:ARG:N	7:AH:68:GLU:OE1	2.45	0.48
7:AH:80:ILE:O	7:AH:90:VAL:HA	2.14	0.48
9:AJ:47:CYS:O	9:AJ:50:ILE:HB	2.13	0.48
14:AO:30:ALA:CB	14:AO:33:ARG:NH2	2.76	0.48
1:AA:528:C:H42	14:AO:49:ASN:ND2	2.10	0.48
14:AO:65:GLU:N	14:AO:65:GLU:CD	2.66	0.48
15:AP:4:ILE:HD13	15:AP:8:GLU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1048:G:OP1	16:AQ:3:ARG:HD2	2.13	0.48
17:AR:27:VAL:O	17:AR:31:LEU:HD13	2.14	0.48
17:AR:66:LEU:O	17:AR:67:LEU:C	2.49	0.48
21:AV:45:VAL:HA	21:AV:67:VAL:HG21	1.95	0.48
50:B3:57:GLU:HB2	50:B3:60:GLN:OE1	2.12	0.48
51:B4:8:LYS:C	51:B4:9:LYS:CG	2.79	0.48
52:B5:6:ARG:HG2	52:B5:10:LEU:HD21	1.95	0.48
53:B6:33:ARG:O	53:B6:37:LYS:CG	2.62	0.48
24:BA:1033:U:H5'	55:B8:16:VAL:HG11	1.93	0.48
24:BA:78:A:C2	24:BA:109:G:C2	3.02	0.48
24:BA:1131:G:OP1	34:BM:79:PRO:CD	2.58	0.48
24:BA:1144:G:O2'	24:BA:1145:C:H5'	2.13	0.48
24:BA:1168:G:O6	24:BA:1169:G:C6	2.67	0.48
24:BA:1184:G:C8	24:BA:1185:C:H5	2.32	0.48
24:BA:1198:U:C2	24:BA:1199:U:C4	3.02	0.48
24:BA:1307:A:C2	24:BA:1308:A:C8	3.01	0.48
24:BA:1326:U:C6	24:BA:2010:G:N2	2.81	0.48
24:BA:1326:U:H6	24:BA:1326:U:P	2.36	0.48
24:BA:146:G:H3'	24:BA:147:U:C5'	2.38	0.48
24:BA:1477:A:H3'	24:BA:1478:G:O4'	2.13	0.48
24:BA:1538:G:C2	24:BA:1539:G:N3	2.81	0.48
24:BA:1670:C:C5	24:BA:1671:U:C4	3.01	0.48
24:BA:1735:C:C2	24:BA:1741:C:H5	2.30	0.48
24:BA:1790:C:O2	24:BA:1791:A:N7	2.46	0.48
24:BA:1915:U:C3'	24:BA:1915:U:OP2	2.57	0.48
24:BA:1949:G:C5	24:BA:1950:G:C8	3.02	0.48
24:BA:1970:A:H1'	24:BA:1972:A:O4'	2.14	0.48
24:BA:805:G:C6	24:BA:2068:U:OP1	2.67	0.48
24:BA:2085:C:C2'	24:BA:2086:U:C5'	2.91	0.48
24:BA:213:A:N1	24:BA:214:G:N3	2.61	0.48
24:BA:20:C:HO2'	24:BA:21:A:H5'	1.73	0.48
24:BA:2427:C:O2'	24:BA:2428:G:OP2	2.30	0.48
24:BA:2603:G:O5'	47:BZ:1:MET:SD	2.71	0.48
24:BA:2663:G:C2'	24:BA:2664:G:O4'	2.60	0.48
24:BA:2683:C:H4'	28:BE:19:ARG:NH1	2.09	0.48
24:BA:269:U:C4	24:BA:424:G:O6	2.67	0.48
24:BA:271:G:N2	24:BA:272:G:C8	2.82	0.48
24:BA:2826:A:N7	24:BA:2827:C:H5	2.12	0.48
24:BA:295:G:H1'	24:BA:345:A:H2	1.79	0.48
24:BA:326:G:N2	24:BA:337:C:H1'	2.28	0.48
24:BA:377:C:H2'	24:BA:378:C:H6	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:510:C:OP1	24:BA:512:G:N2	2.44	0.48
24:BA:559:G:H2'	24:BA:560:C:O5'	2.14	0.48
24:BA:574:C:C2'	24:BA:574:C:O2	2.61	0.48
24:BA:606:U:OP1	29:BF:102:PRO:HA	2.13	0.48
24:BA:629:G:OP1	24:BA:649:G:O2'	2.19	0.48
24:BA:71:A:HO2'	24:BA:72:U:P	2.32	0.48
24:BA:71:A:N3	24:BA:73:A:C5	2.82	0.48
24:BA:809:G:C8	24:BA:810:U:C5	3.02	0.48
24:BA:92:G:O2'	24:BA:93:C:C5'	2.60	0.48
25:BB:30:C:C4	25:BB:31:C:C6	3.02	0.48
25:BB:32:C:C5'	25:BB:33:G:OP2	2.62	0.48
25:BB:58:A:H61	25:BB:59:A:N6	2.09	0.48
25:BB:89:G:H2'	25:BB:89(A):A:C5	2.48	0.48
27:BD:148:GLU:O	27:BD:149:PRO:C	2.50	0.48
27:BD:5:LYS:HA	27:BD:28:GLU:CB	2.43	0.48
27:BD:60:ARG:HA	27:BD:62:TYR:HE2	1.79	0.48
28:BE:176:ILE:HD11	28:BE:179:GLU:OE2	2.13	0.48
28:BE:60:ASN:OD1	28:BE:61:ARG:CD	2.60	0.48
28:BE:30:PRO:HG2	28:BE:90:THR:O	2.14	0.48
30:BG:102:PHE:HE2	30:BG:106:LEU:HD21	1.73	0.48
30:BG:15:VAL:CG2	30:BG:16:ARG:H	2.26	0.48
31:BH:121:ILE:HD12	31:BH:144:VAL:HG11	1.95	0.48
31:BH:74:ASN:HB2	31:BH:138:LYS:HE2	1.95	0.48
32:BK:6:LEU:H	32:BK:36:ALA:HB2	1.78	0.48
33:BL:128:ALA:C	33:BL:132:ARG:NH1	2.67	0.48
34:BM:11:PRO:O	34:BM:12:ARG:NE	2.46	0.48
37:BP:109:VAL:O	37:BP:110:THR:C	2.51	0.48
37:BP:74:TYR:CD2	37:BP:74:TYR:N	2.77	0.48
38:BQ:105:ARG:CA	38:BQ:105:ARG:NH1	2.76	0.48
39:BR:17:ARG:O	39:BR:20:ARG:CB	2.62	0.48
25:BB:8:U:OP1	39:BR:27:SER:OG	2.32	0.48
39:BR:44:LYS:HB2	39:BR:46:VAL:CG2	2.44	0.48
40:BS:15:VAL:HG12	40:BS:16:ARG:O	2.13	0.48
40:BS:38:ASN:ND2	40:BS:39:ARG:HG2	2.29	0.48
40:BS:65:LYS:CD	40:BS:75:ILE:HB	2.44	0.48
34:BM:4:TYR:CZ	41:BT:101:ARG:HB3	2.49	0.48
41:BT:31:SER:OG	41:BT:35:ALA:CA	2.62	0.48
24:BA:1151:G:H4'	41:BT:81:HIS:CE1	2.48	0.48
41:BT:112:ARG:CZ	42:BU:49:THR:HG23	2.44	0.48
44:BW:50:LYS:N	44:BW:50:LYS:HD3	2.28	0.48
45:BX:31:LEU:O	45:BX:32:PRO:C	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:144:LEU:C	46:BY:145:GLU:HG3	2.33	0.48
47:BZ:79:VAL:C	47:BZ:80:HIS:HD2	2.17	0.48
32:BK:114:LEU:HD22	32:BK:130:TYR:HB3	1.96	0.48
32:BK:68:LEU:HD11	32:BK:107:VAL:CG1	2.42	0.48
3:AD:19:G:N1	3:AD:56:C:O2	2.47	0.48
24:BA:2110:G:H2'	24:BA:2120:G:C5'	2.42	0.48
24:BA:2154:G:N2	24:BA:2155:G:H1'	2.28	0.48
24:BA:2168:G:C2	24:BA:2170:A:H3'	2.48	0.48
24:BA:2117:A:N6	24:BA:2171:A:N6	2.52	0.48
26:BC:180:PHE:CZ	26:BC:184:LYS:HD3	2.47	0.48
26:BC:64:LEU:CD1	26:BC:192:PHE:HB2	2.44	0.48
24:BA:1497:U:O4	24:BA:1576:U:O3'	2.31	0.48
24:BA:2103:C:C2	24:BA:2104:G:N7	2.81	0.48
1:AA:164:U:O2	1:AA:165:C:C5	2.66	0.48
25:BB:25:A:C2	25:BB:26:A:H1'	2.47	0.48
25:BB:25:A:H2'	25:BB:26:A:H8	1.77	0.48
24:BA:273(C):C:H2'	24:BA:273(D):C:C6	2.48	0.48
1:AA:1225:A:OP2	15:AP:102:ARG:O	2.32	0.48
1:AA:1232:U:OP1	11:AL:125:TYR:O	2.32	0.48
1:AA:978:A:N1	1:AA:1318:A:C6	2.82	0.48
1:AA:131:C:N4	1:AA:232:G:H1	2.12	0.48
1:AA:1323:G:C2	1:AA:1324:A:C5	3.02	0.48
1:AA:1287:A:N6	1:AA:1371:G:O4'	2.43	0.48
1:AA:1484:C:O2	1:AA:1484:C:H2'	2.13	0.48
1:AA:1488:G:C6	1:AA:1489:G:N7	2.82	0.48
1:AA:1487:G:H2'	1:AA:1488:G:O5'	2.13	0.48
1:AA:186(C):G:H2'	1:AA:186(D):C:C6	2.49	0.48
1:AA:20:U:H5	1:AA:916:G:N1	2.11	0.48
1:AA:285:G:O2'	1:AA:286:G:H5'	2.13	0.48
1:AA:296:U:O2'	1:AA:556:C:O2'	2.25	0.48
1:AA:306:G:C8	1:AA:306:G:O5'	2.67	0.48
1:AA:34:C:C2	1:AA:35:G:C8	3.01	0.48
1:AA:32:A:P	1:AA:398:C:HO2'	2.35	0.48
1:AA:421:U:H5''	1:AA:422:C:OP2	2.13	0.48
1:AA:484:G:O4'	1:AA:486:U:C6	2.66	0.48
1:AA:505:G:C6	1:AA:535:A:C2	3.01	0.48
1:AA:552:U:H2'	1:AA:553:A:H8	1.79	0.48
1:AA:302:G:O2'	1:AA:556:C:H5''	2.13	0.48
1:AA:571:U:H4'	1:AA:572:A:OP2	2.12	0.48
1:AA:626:U:H2'	1:AA:627:G:H8	1.79	0.48
1:AA:690:G:H2'	1:AA:691:G:O5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:735:C:H6	1:AA:735:C:O5'	1.95	0.48
1:AA:765:G:H2'	1:AA:766:A:OP2	2.13	0.48
1:AA:663:A:C5'	1:AA:836:G:OP1	2.55	0.48
1:AA:924:C:O2'	1:AA:925:G:H5'	2.13	0.48
1:AA:935:A:C5	1:AA:936:C:C5	3.02	0.48
1:AA:951:G:N3	1:AA:970:C:O2'	2.39	0.48
1:AA:951:G:C1'	1:AA:970:C:O2'	2.60	0.48
2:AC:19:G:C3'	2:AC:20:U:C4	2.96	0.48
3:AD:35:A:O2'	3:AD:36:A:P	2.72	0.48
3:AD:73:A:C2	3:AD:74:C:C6	3.02	0.48
4:AE:33:TYR:CE2	4:AE:44:LEU:HG	2.48	0.48
8:AI:26:ILE:C	8:AI:30:LEU:CD1	2.81	0.48
8:AI:48:LEU:HB3	20:AU:78:LEU:CD2	2.20	0.48
8:AI:68:PRO:O	8:AI:69:GLU:C	2.52	0.48
8:AI:82:ARG:O	8:AI:83:ASP:C	2.51	0.48
10:AK:39:LEU:HD12	10:AK:45:ILE:HG22	1.95	0.48
11:AL:28:VAL:HG11	11:AL:36:TYR:CG	2.49	0.48
13:AN:12:ARG:C	13:AN:13:GLN:HG2	2.34	0.48
17:AR:79:ARG:CB	17:AR:79:ARG:HH11	2.23	0.48
18:AS:14:ASN:OD1	18:AS:14:ASN:C	2.52	0.48
18:AS:3:LYS:CB	18:AS:65:GLN:O	2.61	0.48
20:AU:49:LYS:HZ2	20:AU:49:LYS:N	2.00	0.48
20:AU:74:ARG:NH1	20:AU:81:PHE:CB	2.76	0.48
23:AX:6:ARG:HB3	23:AX:15:ARG:NE	2.29	0.48
48:B1:63:ARG:C	48:B1:66:ASN:HB3	2.33	0.48
51:B4:13:LYS:C	51:B4:17:ASP:OD1	2.52	0.48
52:B5:20:ASN:CG	52:B5:43:CYS:HG	2.11	0.48
24:BA:1613:G:H1'	53:B6:3:ARG:CZ	2.43	0.48
54:B7:50:LEU:HD23	54:B7:51:ALA:H	1.78	0.48
24:BA:242:G:C5'	54:B7:62:LEU:CD1	2.90	0.48
24:BA:1131:G:N2	24:BA:1132:A:C6	2.82	0.48
24:BA:1171:G:P	24:BA:1171:G:O4'	2.70	0.48
24:BA:1184:G:C8	24:BA:1185:C:C5	3.01	0.48
24:BA:1199:U:N3	24:BA:1200:C:C5	2.82	0.48
24:BA:1204:A:C2	29:BF:188:ARG:O	2.66	0.48
24:BA:1258:C:O2'	24:BA:1259:G:H5'	2.13	0.48
24:BA:128:C:C2	24:BA:129:C:C5	3.02	0.48
24:BA:1388:G:C2	24:BA:1400:G:C2	3.01	0.48
24:BA:1429:G:H3'	24:BA:1430:C:H6	1.78	0.48
24:BA:1515:C:C3'	24:BA:1515:C:C6	2.97	0.48
24:BA:1519:G:N3	24:BA:1519:G:H2'	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1532:C:H2'	24:BA:1533:C:O4'	2.13	0.48
24:BA:1672:C:O2'	24:BA:1673:U:OP1	2.27	0.48
24:BA:1742:C:N3	24:BA:1743:G:C8	2.81	0.48
24:BA:1820:U:O2'	24:BA:1821:A:P	2.71	0.48
24:BA:182:A:H8	24:BA:182:A:O5'	1.97	0.48
24:BA:1853:A:C4	24:BA:1854:A:N7	2.81	0.48
24:BA:1857:G:O2'	24:BA:1885:A:N6	2.46	0.48
24:BA:1912:A:C2	24:BA:1919:A:C4	2.98	0.48
24:BA:2000:G:O6	24:BA:2001:A:N6	2.47	0.48
24:BA:2018:G:P	24:BA:2018:G:H3'	2.53	0.48
24:BA:201:C:C5	24:BA:202:U:C6	3.02	0.48
24:BA:2051:A:C6	24:BA:2614:A:C6	3.01	0.48
24:BA:197:A:H5''	24:BA:2068:U:C4	2.49	0.48
24:BA:2236:C:C4	24:BA:2237:G:C4	3.01	0.48
24:BA:226:G:C2	24:BA:227:A:N3	2.82	0.48
24:BA:2344:U:O2'	24:BA:2345:G:C5'	2.62	0.48
24:BA:2417:C:N4	24:BA:2418:A:N6	2.62	0.48
24:BA:2437:U:H2'	24:BA:2438:U:H5	1.76	0.48
24:BA:2472:G:C2	24:BA:2475:C:C2	3.02	0.48
24:BA:2597:G:N9	27:BD:242:ARG:NH2	2.61	0.48
24:BA:2602:A:C3'	24:BA:2602:A:OP1	2.55	0.48
24:BA:2616:C:C2'	24:BA:2617:C:H6	2.26	0.48
24:BA:2713:A:C3'	24:BA:2714:G:C5'	2.92	0.48
24:BA:2749:A:O4'	31:BH:63:SER:CA	2.62	0.48
24:BA:2838:G:C6	24:BA:2839:G:N7	2.81	0.48
24:BA:2848:G:O2'	24:BA:2849:U:P	2.71	0.48
24:BA:2849:U:C6	24:BA:2866:U:O2'	2.64	0.48
24:BA:299:A:H5''	24:BA:300:A:OP2	2.14	0.48
24:BA:336:C:H4'	45:BX:67:LEU:CD2	2.43	0.48
24:BA:344:G:OP1	24:BA:345:A:OP2	2.31	0.48
24:BA:356:G:H2'	24:BA:357:A:C8	2.49	0.48
24:BA:390:A:O2'	24:BA:391:G:N7	2.46	0.48
24:BA:393:C:C2	24:BA:394:A:C8	3.02	0.48
24:BA:476:G:O4'	24:BA:505:A:H2	1.97	0.48
24:BA:604:G:H2'	24:BA:605:C:O5'	2.13	0.48
24:BA:64:A:N3	44:BW:66:LEU:CD2	2.73	0.48
24:BA:692:C:C4	24:BA:771:G:N1	2.81	0.48
24:BA:751:A:C6	24:BA:789:A:N7	2.81	0.48
24:BA:775:G:H4'	24:BA:777:A:C4	2.49	0.48
24:BA:783:A:C8	24:BA:784:A:H4'	2.49	0.48
24:BA:879:G:N2	24:BA:880:G:N9	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:66:C:N4	24:BA:89:G:C6	2.82	0.48
24:BA:957:A:N7	24:BA:959:A:C8	2.80	0.48
27:BD:93:ALA:CB	27:BD:105:ILE:HG23	2.39	0.48
27:BD:135:PHE:HD1	27:BD:135:PHE:H	1.60	0.48
27:BD:161:THR:O	27:BD:162:SER:CB	2.59	0.48
27:BD:181:GLU:CB	27:BD:268:ARG:HH21	2.27	0.48
27:BD:143:HIS:HD1	27:BD:195:ALA:HA	1.78	0.48
28:BE:57:LYS:O	28:BE:58:ARG:NH2	2.46	0.48
29:BF:33:LEU:O	29:BF:34:TRP:C	2.51	0.48
29:BF:36:VAL:CG1	29:BF:37:VAL:N	2.75	0.48
31:BH:107:VAL:HG21	31:BH:152:ARG:HH21	1.79	0.48
31:BH:35:VAL:HG11	31:BH:72:ILE:CA	2.26	0.48
31:BH:52:VAL:CG2	31:BH:65:HIS:HD1	2.27	0.48
34:BM:76:SER:HB3	34:BM:80:GLY:O	2.13	0.48
36:BO:75:ILE:HG22	36:BO:115:LEU:HD21	1.95	0.48
36:BO:74:GLU:OE1	36:BO:101:VAL:O	2.32	0.48
36:BO:83:VAL:HG23	36:BO:84:ASN:CG	2.34	0.48
37:BP:39:PRO:HD2	37:BP:98:LYS:CA	2.43	0.48
39:BR:79:ALA:O	39:BR:82:ILE:HA	2.13	0.48
41:BT:58:ARG:CG	41:BT:59:ARG:N	2.75	0.48
41:BT:93:LYS:H	42:BU:10:LYS:CE	2.10	0.48
41:BT:94:ASN:ND2	42:BU:6:LYS:CE	2.75	0.48
42:BU:22:VAL:CG1	42:BU:23:GLU:N	2.76	0.48
42:BU:5:VAL:O	42:BU:6:LYS:CB	2.60	0.48
42:BU:66:ARG:O	42:BU:94:LEU:CD2	2.61	0.48
43:BV:27:LYS:O	43:BV:71:VAL:N	2.46	0.48
44:BW:50:LYS:N	44:BW:50:LYS:CD	2.76	0.48
45:BX:47:LYS:NZ	45:BX:51:VAL:CG2	2.74	0.48
46:BY:53:ILE:HG12	46:BY:58:VAL:HG22	1.96	0.48
32:BK:91:SER:HA	32:BK:121:LYS:HB3	1.94	0.48
24:BA:2177:C:H5''	26:BC:213:TYR:CZ	2.48	0.48
26:BC:73:ARG:NH1	26:BC:93:TYR:CE2	2.82	0.48
1:AA:1003:G:N2	1:AA:1004:A:O2'	2.47	0.48
24:BA:163:U:OP2	24:BA:163:U:H5	1.96	0.48
24:BA:2373:G:O2'	24:BA:2374:C:O5'	2.24	0.48
24:BA:2462:U:C4	24:BA:2463:C:C4	3.02	0.48
26:BC:187:ASP:OD2	26:BC:187:ASP:C	2.52	0.48
1:AA:1079:G:N3	1:AA:1080:A:C2	2.82	0.48
1:AA:1129:C:H5'	1:AA:1130:A:P	2.51	0.48
1:AA:1134:G:C6	1:AA:1141:C:C4	3.01	0.48
1:AA:1176:A:N7	1:AA:1177:G:C6	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1330:U:C4	1:AA:1331:G:C5	3.02	0.48
1:AA:1392:G:O5'	1:AA:1392:G:H8	1.97	0.48
1:AA:185:A:O2'	1:AA:186:C:H5'	2.13	0.48
1:AA:191(F):U:H3	22:AW:105:SER:CB	2.27	0.48
1:AA:198:G:C2	1:AA:199:G:C4	3.02	0.48
1:AA:236:G:C2'	1:AA:237:C:C6	2.96	0.48
1:AA:307:C:C5'	1:AA:307:C:H6	2.27	0.48
1:AA:329:A:C2	1:AA:332:G:C4	3.02	0.48
1:AA:383:A:C2'	1:AA:384:G:C5'	2.82	0.48
1:AA:543:C:N3	1:AA:544:G:N7	2.61	0.48
1:AA:571:U:H2'	1:AA:571:U:O2	2.12	0.48
1:AA:785:G:N2	1:AA:798:G:C4	2.82	0.48
1:AA:967:C:H2'	1:AA:968:A:C8	2.48	0.48
1:AA:988:G:N2	1:AA:989:C:H1'	2.29	0.48
2:AC:38:A:C2'	2:AC:39:C:O5'	2.61	0.48
3:AD:28:G:O6	3:AD:43:A:C6	2.67	0.48
3:AD:4:G:C2	3:AD:5:A:C8	3.01	0.48
3:AD:6:G:O2'	3:AD:7:G:O5'	2.27	0.48
4:AE:146:GLN:O	4:AE:148:TYR:N	2.47	0.48
4:AE:208:ILE:O	4:AE:209:ARG:C	2.50	0.48
4:AE:15:VAL:HG11	4:AE:209:ARG:HB3	1.94	0.48
5:AF:101:LEU:HD23	5:AF:101:LEU:O	2.13	0.48
5:AF:140:ARG:HA	5:AF:143:GLU:OE1	2.14	0.48
5:AF:142:MET:HG3	5:AF:143:GLU:N	2.29	0.48
6:AG:118:ARG:HH21	6:AG:118:ARG:HG3	1.78	0.48
6:AG:117:ALA:O	6:AG:121:VAL:HG23	2.13	0.48
6:AG:148:VAL:HG11	6:AG:158:ILE:CG2	2.43	0.48
7:AH:11:ILE:CG2	7:AH:12:LEU:N	2.45	0.48
9:AJ:52:GLU:HB3	9:AJ:53:LYS:H	1.51	0.48
9:AJ:50:ILE:CD1	9:AJ:58:PRO:HA	2.36	0.48
1:AA:643:C:O2'	10:AK:132:GLU:OE1	2.19	0.48
10:AK:132:GLU:O	10:AK:133:LEU:C	2.52	0.48
1:AA:755:G:O2'	10:AK:1:MET:CE	2.62	0.48
10:AK:28:ALA:O	10:AK:29:SER:HB2	2.14	0.48
10:AK:64:LYS:C	10:AK:65:TYR:CG	2.87	0.48
11:AL:104:ARG:O	11:AL:105:ASP:HB2	2.13	0.48
11:AL:47:LEU:O	11:AL:48:GLU:C	2.52	0.48
11:AL:85:LEU:HD11	11:AL:92:TYR:CE1	2.49	0.48
12:AM:23:ILE:CB	12:AM:85:LEU:HD23	2.44	0.48
12:AM:60:ARG:CB	12:AM:60:ARG:HH11	2.26	0.48
15:AP:91:ARG:HH12	15:AP:103:THR:CG2	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:20:THR:CG2	15:AP:20:THR:O	2.61	0.48
15:AP:37:THR:HB	15:AP:59:TYR:CE2	2.45	0.48
19:AT:31:LEU:CD1	19:AT:31:LEU:O	2.60	0.48
19:AT:6:LEU:O	19:AT:58:GLU:HA	2.13	0.48
20:AU:54:ARG:HG3	20:AU:54:ARG:O	2.13	0.48
20:AU:63:GLN:N	20:AU:66:LEU:HD21	2.28	0.48
23:AX:21:TYR:O	23:AX:22:ARG:CB	2.59	0.48
48:B1:48:LEU:CD1	48:B1:51:GLN:HE22	2.25	0.48
50:B3:5:ILE:O	50:B3:6:HIS:CB	2.61	0.48
51:B4:17:ASP:C	51:B4:21:SER:OG	2.52	0.48
52:B5:16:CYS:SG	52:B5:19:ARG:NE	2.85	0.48
53:B6:43:THR:C	53:B6:45:ALA:H	2.16	0.48
54:B7:51:ALA:O	54:B7:54:GLU:OE2	2.31	0.48
24:BA:1120:G:O2'	24:BA:1121:C:H5'	2.13	0.48
24:BA:1125:G:H4'	55:B8:4:ARG:CB	2.37	0.48
24:BA:1203:G:N1	24:BA:1240:U:N3	2.50	0.48
24:BA:1205:U:H1'	24:BA:1240:U:O4	2.14	0.48
24:BA:1520:U:C6	24:BA:1520:U:H3'	2.46	0.48
24:BA:1611:C:O2	24:BA:1611:C:H2'	2.14	0.48
24:BA:1613:G:H3'	24:BA:1614:A:H5''	1.91	0.48
24:BA:1685:C:H2'	24:BA:1686:C:O5'	2.13	0.48
24:BA:1686:C:O2	24:BA:1686:C:H2'	2.14	0.48
24:BA:1697:G:C8	24:BA:1698:A:H5''	2.49	0.48
24:BA:1794:U:H5'	24:BA:1900:A:N6	2.29	0.48
24:BA:2000:G:C2	24:BA:2001:A:C5	3.01	0.48
24:BA:201:C:H2'	24:BA:202:U:C5'	2.33	0.48
24:BA:203:C:C6	24:BA:204:A:N7	2.81	0.48
24:BA:2236:C:H5''	24:BA:2236:C:H6	1.77	0.48
24:BA:2238:G:H2'	24:BA:2239:G:H5''	1.94	0.48
24:BA:2319:G:C4'	24:BA:2320:A:OP1	2.51	0.48
24:BA:2350:C:O2'	24:BA:2351:G:P	2.71	0.48
24:BA:2393:A:C5	24:BA:2394:C:C6	3.02	0.48
24:BA:411:G:N1	24:BA:2407:G:C6	2.82	0.48
24:BA:2422:A:C2'	24:BA:2424:C:H5	2.27	0.48
24:BA:2422:A:O2'	24:BA:2424:C:C5	2.64	0.48
24:BA:2431:U:C2	24:BA:2433:A:OP2	2.67	0.48
24:BA:2493:U:H5''	24:BA:2493:U:C6	2.30	0.48
24:BA:2493:U:O4	24:BA:2494:G:C8	2.67	0.48
24:BA:252:G:C2	24:BA:253:C:C6	3.02	0.48
24:BA:2604:U:C2'	24:BA:2605:U:H5'	2.44	0.48
24:BA:2713:A:H3'	24:BA:2714:G:H5'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2764:A:N7	24:BA:2766:G:N7	2.62	0.48
24:BA:284:U:C2	24:BA:285:C:C5	3.01	0.48
24:BA:2876:G:N3	24:BA:2876:G:H2'	2.29	0.48
24:BA:324:A:H2'	24:BA:325:G:O5'	2.14	0.48
24:BA:389:G:N3	24:BA:389:G:H2'	2.29	0.48
24:BA:471:A:C8	24:BA:472:A:C8	3.01	0.48
24:BA:550:G:C2'	24:BA:1220:A:C2	2.96	0.48
24:BA:581:C:H5''	41:BT:32:PHE:CE1	2.49	0.48
24:BA:629:G:N2	24:BA:635:C:C2	2.82	0.48
24:BA:730:C:C2	24:BA:731:C:C5	3.01	0.48
24:BA:747:U:O2'	24:BA:748:G:P	2.72	0.48
24:BA:764:A:C6	24:BA:1789:A:C2	3.01	0.48
24:BA:785:G:O2'	24:BA:786:C:OP1	2.19	0.48
24:BA:807:U:C2'	24:BA:808:G:O5'	2.61	0.48
24:BA:811:U:H3'	24:BA:811:U:C6	2.45	0.48
24:BA:914:C:C5	24:BA:915:C:C6	3.02	0.48
24:BA:914:C:H5	24:BA:915:C:C6	2.32	0.48
24:BA:848:G:C2	24:BA:933:A:N3	2.81	0.48
24:BA:988:A:H4'	24:BA:1155:A:C2	2.47	0.48
25:BB:112:G:N3	25:BB:112:G:C2'	2.75	0.48
25:BB:46:A:C5	25:BB:47:C:C4	3.02	0.48
25:BB:78:A:C2'	25:BB:79:C:H5'	2.40	0.48
24:BA:764:A:OP1	27:BD:211:ARG:CD	2.62	0.48
24:BA:1789:A:C4'	27:BD:222:ARG:CZ	2.86	0.48
24:BA:2597:G:C5'	27:BD:242:ARG:NE	2.77	0.48
27:BD:246:PRO:HG2	27:BD:250:TRP:CB	2.43	0.48
27:BD:91:ARG:NH2	27:BD:198:ASN:HB2	2.28	0.48
28:BE:118:LYS:HE2	28:BE:118:LYS:HA	1.94	0.48
28:BE:142:GLY:C	28:BE:143:ASN:CG	2.72	0.48
28:BE:45:THR:CG2	28:BE:79:ARG:NH1	2.77	0.48
29:BF:129:PHE:CZ	29:BF:133:ASN:HA	2.49	0.48
29:BF:148:LEU:HB3	29:BF:152:GLU:HG2	1.96	0.48
29:BF:169:ASN:HD22	29:BF:173:VAL:CG1	2.20	0.48
29:BF:6:VAL:HG12	29:BF:18:ARG:CZ	2.44	0.48
29:BF:82:ILE:HD13	29:BF:82:ILE:H	1.77	0.48
30:BG:63:ILE:O	30:BG:102:PHE:CE1	2.66	0.48
30:BG:121:ASN:ND2	30:BG:124:SER:HA	2.29	0.48
30:BG:138:GLN:HB2	30:BG:155:MET:HE1	1.96	0.48
30:BG:152:LEU:C	30:BG:155:MET:HE3	2.33	0.48
24:BA:2309:A:N6	30:BG:80:PHE:O	2.44	0.48
30:BG:78:SER:OG	30:BG:83:ARG:CA	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:116:GLU:O	31:BH:117:PRO:C	2.52	0.48
31:BH:127:GLU:HG3	31:BH:130:ARG:CB	2.43	0.48
31:BH:133:VAL:CG2	31:BH:134:SER:N	2.77	0.48
31:BH:43:VAL:CG1	31:BH:51:ARG:O	2.49	0.48
31:BH:85:LYS:HB2	31:BH:141:VAL:CG1	2.43	0.48
33:BL:103:GLN:C	33:BL:106:GLU:HG3	2.34	0.48
33:BL:7:VAL:HG13	33:BL:60:TYR:CD1	2.49	0.48
34:BM:53:VAL:C	34:BM:54:VAL:HG12	2.33	0.48
34:BM:69:GLN:NE2	34:BM:69:GLN:N	2.61	0.48
35:BN:16:ALA:HB2	35:BN:45:GLU:C	2.34	0.48
39:BR:26:LEU:HD13	39:BR:28:VAL:N	2.25	0.48
39:BR:70:GLY:O	39:BR:71:ARG:C	2.52	0.48
39:BR:89:ARG:HG3	39:BR:90:GLY:H	1.56	0.48
41:BT:9:VAL:CG1	41:BT:13:LYS:HE2	2.44	0.48
41:BT:32:PHE:N	41:BT:35:ALA:CB	2.77	0.48
24:BA:445:C:O3'	41:BT:3:ARG:HG2	2.14	0.48
42:BU:3:ALA:CB	42:BU:44:LYS:HE3	2.44	0.48
42:BU:53:GLU:O	42:BU:57:VAL:HG23	2.13	0.48
42:BU:40:LEU:CG	42:BU:55:ALA:N	2.72	0.48
43:BV:69:LEU:HD12	43:BV:109:GLU:O	2.14	0.48
44:BW:12:VAL:HG22	44:BW:29:TRP:CE2	2.49	0.48
44:BW:6:ASP:OD1	44:BW:7:VAL:N	2.46	0.48
44:BW:25:LYS:HB3	44:BW:82:GLN:HA	1.94	0.48
46:BY:138:GLU:C	46:BY:139:VAL:CG2	2.82	0.48
46:BY:6:LYS:HD3	46:BY:35:ARG:HH11	1.78	0.48
47:BZ:35:ASN:ND2	47:BZ:35:ASN:N	2.61	0.48
32:BK:87:LYS:HZ1	32:BK:122:GLU:HG2	1.77	0.48
32:BK:87:LYS:HB3	32:BK:121:LYS:HE3	1.96	0.48
24:BA:2119:A:N7	24:BA:2170:A:N1	2.61	0.48
26:BC:74:VAL:HG11	26:BC:114:VAL:HG13	1.96	0.48
26:BC:22:ILE:HG21	26:BC:190:ARG:NH2	2.29	0.48
26:BC:19:ILE:O	26:BC:19:ILE:HG22	2.11	0.48
26:BC:39:GLU:O	26:BC:178:ALA:CB	2.56	0.48
26:BC:63:SER:O	26:BC:64:LEU:O	2.31	0.48
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.96	0.48
1:AA:1003:G:N2	1:AA:1005:A:H5'	2.28	0.48
24:BA:154:G:C2	24:BA:155:C:N3	2.81	0.48
4:AE:124:SER:HB2	4:AE:125:PRO:HD2	1.96	0.48
24:BA:738:G:C2	24:BA:759:G:C6	3.01	0.48
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.94	0.48
1:AA:1188:A:C5	1:AA:1189:C:N4	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1242:C:O2'	1:AA:1303:C:C5'	2.59	0.48
1:AA:1289:A:H2'	1:AA:1290:G:H8	1.79	0.48
1:AA:128:G:C6	1:AA:129:U:C4	3.02	0.48
1:AA:976:G:N3	1:AA:1363:A:N6	2.61	0.48
1:AA:925:G:N1	1:AA:1392:G:C6	2.82	0.48
1:AA:1505:G:C8	1:AA:1505:G:O5'	2.67	0.48
1:AA:1521:G:O2'	1:AA:1522:U:C5'	2.62	0.48
1:AA:292:G:N7	1:AA:293:G:H1'	2.29	0.48
1:AA:404:U:OP1	6:AG:118:ARG:CZ	2.62	0.48
1:AA:425:G:N2	1:AA:426:G:H1'	2.29	0.48
1:AA:437:U:H2'	1:AA:438:G:O4'	2.14	0.48
1:AA:451:A:N7	1:AA:481:G:C2	2.82	0.48
1:AA:589:C:H2'	1:AA:590:C:C6	2.48	0.48
1:AA:650:G:C2'	1:AA:651:C:H5'	2.44	0.48
1:AA:787:A:H2'	1:AA:788:U:O5'	2.14	0.48
1:AA:814:A:O2'	1:AA:815:A:H5'	2.14	0.48
1:AA:939:G:C2	1:AA:940:C:N3	2.82	0.48
2:AC:47:U:C2'	2:AC:48:C:O5'	2.58	0.48
4:AE:164:VAL:CG2	4:AE:165:VAL:N	2.77	0.48
5:AF:52:LEU:HG	5:AF:53:ALA:H	1.79	0.48
5:AF:50:ALA:O	5:AF:72:LYS:HD2	2.13	0.48
6:AG:111:ALA:HB2	6:AG:120:LEU:HD21	1.96	0.48
6:AG:152:SER:O	6:AG:158:ILE:CG1	2.53	0.48
6:AG:107:ARG:CD	6:AG:174:LEU:HD11	2.38	0.48
6:AG:58:LEU:HD13	6:AG:58:LEU:C	2.34	0.48
7:AH:141:GLN:O	7:AH:142:LEU:CB	2.62	0.48
9:AJ:49:ILE:HD13	9:AJ:121:ALA:CB	2.36	0.48
9:AJ:5:ARG:CB	9:AJ:5:ARG:NH1	2.75	0.48
10:AK:112:LEU:CB	10:AK:133:LEU:HA	2.41	0.48
11:AL:113:LYS:CD	11:AL:113:LYS:N	2.77	0.48
11:AL:26:VAL:O	11:AL:32:ASP:HA	2.14	0.48
12:AM:38:ILE:O	12:AM:71:LEU:HB2	2.14	0.48
14:AO:36:VAL:HB	14:AO:82:VAL:HG22	1.96	0.48
15:AP:19:LEU:C	15:AP:25:ILE:HG21	2.34	0.48
15:AP:39:ILE:CG2	15:AP:55:ARG:NH2	2.77	0.48
16:AQ:21:TYR:CE2	16:AQ:23:ARG:HG2	2.48	0.48
17:AR:36:ILE:HD12	17:AR:63:ARG:HD3	1.94	0.48
18:AS:15:PRO:HD2	18:AS:42:ARG:NE	2.28	0.48
18:AS:8:ARG:HH12	18:AS:11:SER:N	2.12	0.48
20:AU:87:ARG:O	20:AU:88:LYS:OXT	2.32	0.48
21:AV:14:HIS:HD2	21:AV:35:SER:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:40:ILE:O	21:AV:41:VAL:HG13	2.14	0.48
23:AX:18:TYR:HD2	23:AX:23:PRO:O	1.97	0.48
49:B2:12:PRO:HA	49:B2:15:TYR:CD2	2.49	0.48
50:B3:10:VAL:HG12	50:B3:40:HIS:CD2	2.49	0.48
50:B3:47:GLN:CD	50:B3:50:VAL:H	2.17	0.48
51:B4:40:LYS:HG2	51:B4:41:PRO:CG	2.43	0.48
24:BA:1029:A:O5'	24:BA:1029:A:C8	2.55	0.48
24:BA:1062:G:H22	24:BA:1063:G:H1'	1.79	0.48
24:BA:1152:C:O3'	41:BT:80:ILE:HD12	2.14	0.48
24:BA:1169:G:H2'	24:BA:1170:G:O4'	2.14	0.48
24:BA:1199:U:OP2	24:BA:1199:U:C6	2.66	0.48
24:BA:1210:A:H4'	24:BA:1211:U:H5''	1.94	0.48
24:BA:1242:A:H5'	24:BA:1243:G:OP2	2.14	0.48
24:BA:1270:C:O2	24:BA:1325:G:C8	2.66	0.48
24:BA:141(A):C:C2'	24:BA:142:G:C5'	2.90	0.48
24:BA:149:A:N6	24:BA:151:C:N4	2.62	0.48
24:BA:1539:G:H2'	24:BA:1540:G:O5'	2.14	0.48
24:BA:1558:A:C2	24:BA:1560:G:C1'	2.97	0.48
24:BA:1614:A:P	24:BA:1617:C:H42	2.37	0.48
24:BA:1626:G:C5'	24:BA:1627:G:P	3.02	0.48
24:BA:1796:U:H2'	24:BA:1797:C:C5	2.47	0.48
24:BA:189:G:N3	24:BA:205:G:N2	2.61	0.48
24:BA:1919:A:C2	24:BA:1920:C:N1	2.82	0.48
24:BA:1927:A:C5	24:BA:1928:A:N1	2.82	0.48
24:BA:1934:C:O2'	24:BA:1935:G:C5'	2.60	0.48
24:BA:1958:C:C2'	24:BA:1959:G:O5'	2.62	0.48
24:BA:1679:U:O2	24:BA:1989:G:N2	2.47	0.48
24:BA:2063:C:C2'	24:BA:2064:C:H5''	2.44	0.48
24:BA:2348:U:O4	24:BA:2382:G:C2	2.67	0.48
24:BA:2349:G:N3	24:BA:2369:A:C2	2.82	0.48
24:BA:242:G:H8	54:B7:4:MET:CE	2.26	0.48
24:BA:1953:A:H62	24:BA:2550:G:H4'	1.78	0.48
24:BA:2572:A:N6	28:BE:145:LYS:HG2	2.29	0.48
24:BA:257:A:H2'	24:BA:258:G:O4'	2.14	0.48
24:BA:2617:C:C4	24:BA:2618:G:C8	3.02	0.48
24:BA:2665:A:H2'	24:BA:2666:C:O4'	2.14	0.48
24:BA:282:A:OP1	24:BA:283:A:OP2	2.31	0.48
24:BA:2845:G:HO2'	24:BA:2846:G:P	2.35	0.48
24:BA:383:U:H2'	24:BA:385:C:N4	2.28	0.48
24:BA:408:G:N3	24:BA:409:C:C6	2.82	0.48
24:BA:459:U:O2'	24:BA:460:A:C5'	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:684:G:N2	24:BA:794:G:N1	2.62	0.48
24:BA:709:U:H2'	24:BA:710:G:O4'	2.14	0.48
24:BA:730:C:H2'	24:BA:731:C:H5'	1.96	0.48
24:BA:800:A:O2'	24:BA:801:G:O5'	2.32	0.48
24:BA:89:G:P	24:BA:90:U:H5'	2.54	0.48
24:BA:919:G:C2	24:BA:920:G:C4	3.01	0.48
24:BA:959:A:H2'	24:BA:960:A:H8	1.79	0.48
24:BA:977:G:N2	24:BA:978:G:H1'	2.29	0.48
25:BB:65:C:C2'	25:BB:66:A:H5'	2.42	0.48
25:BB:75:G:N2	46:BY:85:HIS:ND1	2.61	0.48
25:BB:82:G:H2'	25:BB:83:G:C8	2.49	0.48
27:BD:118:VAL:O	27:BD:129:ASN:CA	2.61	0.48
24:BA:1813:G:HO2'	27:BD:46:GLN:HG2	1.71	0.48
28:BE:105:THR:HG21	28:BE:166:THR:HB	1.96	0.48
28:BE:36:ARG:O	28:BE:44:TYR:CA	2.46	0.48
29:BF:11:VAL:CG1	29:BF:127:GLU:HB2	2.43	0.48
29:BF:128:ALA:CB	29:BF:142:TRP:CZ2	2.94	0.48
29:BF:161:GLU:O	29:BF:165:ARG:CG	2.61	0.48
29:BF:62:ARG:C	29:BF:63:LYS:HG2	2.30	0.48
29:BF:64:ILE:HD13	29:BF:64:ILE:N	2.28	0.48
29:BF:78:ILE:HD13	29:BF:79:GLY:CA	2.44	0.48
30:BG:110:ALA:HB2	30:BG:139:LEU:CD1	2.41	0.48
30:BG:16:ARG:O	30:BG:20:ILE:HB	2.13	0.48
31:BH:74:ASN:O	31:BH:76:VAL:N	2.47	0.48
31:BH:35:VAL:HG21	31:BH:75:ALA:CB	2.44	0.48
32:BK:31:LEU:O	32:BK:32:PRO:C	2.47	0.48
33:BL:105:LEU:CG	33:BL:124:ALA:HB2	2.44	0.48
33:BL:101:TRP:CZ3	33:BL:105:LEU:HG	2.37	0.48
33:BL:131:ALA:O	33:BL:136:VAL:HB	2.13	0.48
34:BM:18:ALA:O	34:BM:21:LYS:HB2	2.13	0.48
36:BO:85:LEU:CD1	36:BO:86:LYS:HE2	2.42	0.48
37:BP:120:ILE:C	37:BP:122:GLY:N	2.65	0.48
38:BQ:3:HIS:O	38:BQ:4:LEU:CG	2.44	0.48
39:BR:30:ARG:O	39:BR:34:HIS:HB3	2.14	0.48
39:BR:40:ILE:CG2	39:BR:41:ASP:N	2.75	0.48
39:BR:10:ARG:HH22	39:BR:91:PRO:CA	2.27	0.48
41:BT:31:SER:OG	41:BT:35:ALA:HA	2.14	0.48
41:BT:31:SER:C	41:BT:35:ALA:HB2	2.35	0.48
41:BT:91:ASP:CG	42:BU:10:LYS:HD3	2.28	0.48
43:BV:27:LYS:O	43:BV:70:TYR:CB	2.58	0.48
43:BV:48:ALA:O	43:BV:51:LEU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:85:PRO:HG2	44:BW:87:GLN:HG2	1.95	0.48
44:BW:90:GLU:O	44:BW:93:GLU:CG	2.62	0.48
45:BX:12:THR:CA	45:BX:73:ARG:NH1	2.76	0.48
46:BY:151:HIS:C	46:BY:153:SER:H	2.18	0.48
46:BY:48:PHE:C	46:BY:54:HIS:CE1	2.87	0.48
46:BY:60:GLU:CD	46:BY:67:LEU:O	2.52	0.48
32:BK:66:GLU:CA	32:BK:69:LYS:HG3	2.44	0.48
24:BA:2133:G:N7	24:BA:2157:G:H8	2.12	0.48
24:BA:2163:C:OP1	24:BA:2172:U:C6	2.67	0.48
24:BA:2164:C:H2'	24:BA:2165:G:C1'	2.44	0.48
26:BC:134:ARG:CD	26:BC:136:LEU:HD21	2.40	0.48
26:BC:23:ASP:OD2	26:BC:186:ALA:HB1	2.13	0.48
26:BC:29:VAL:O	26:BC:32:LEU:HB2	2.13	0.48
26:BC:77:ILE:HD12	26:BC:115:ALA:HB2	1.96	0.48
24:BA:2104:G:N2	24:BA:2105:C:O2	2.47	0.48
5:AF:60:ALA:HB2	12:AM:92:THR:O	2.13	0.48
24:BA:273(F):C:O2'	24:BA:363(A):A:N1	2.45	0.48
28:BE:206:LYS:HZ2	28:BE:206:LYS:HB3	1.79	0.48
6:AG:165:MET:HE3	6:AG:166:LYS:HA	1.96	0.48
1:AA:142:G:C2	1:AA:143:A:C5	3.01	0.48
45:BX:26:LYS:NZ	45:BX:36:ALA:HB1	2.28	0.48
1:AA:1015:A:C6	1:AA:1016:A:C6	3.01	0.48
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.31	0.48
1:AA:1157:A:C4	1:AA:1181:G:N2	2.82	0.48
1:AA:1182:G:C4'	1:AA:1183:A:O5'	2.62	0.48
1:AA:1184:G:N1	1:AA:1185:G:O6	2.47	0.48
1:AA:1287:A:C5	1:AA:1288:A:C6	3.02	0.48
1:AA:1321:C:N4	1:AA:1322:C:H2'	2.28	0.48
1:AA:1371:G:H2'	1:AA:1372:U:C5'	2.44	0.48
1:AA:1373:G:O3'	9:AJ:36:LYS:NZ	2.46	0.48
1:AA:137:C:C2	1:AA:227:G:N2	2.82	0.48
1:AA:1433:A:N6	1:AA:1434:A:C6	2.81	0.48
1:AA:1498:U:O4	1:AA:1540:U:C5'	2.62	0.48
1:AA:1507:A:C2'	1:AA:1508:G:C5'	2.90	0.48
1:AA:1539:C:N3	1:AA:1540:U:C4	2.82	0.48
1:AA:186:C:HO2'	22:AW:85:MET:CG	2.25	0.48
1:AA:262:A:C2	1:AA:263:A:C5	3.02	0.48
1:AA:315:A:N3	1:AA:315:A:H2'	2.29	0.48
1:AA:352:C:O2	1:AA:352:C:H2'	2.13	0.48
1:AA:421:U:OP2	1:AA:422:C:C5	2.67	0.48
1:AA:432:A:N7	1:AA:433:C:C5	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:580:U:H2'	1:AA:581:G:C8	2.48	0.48
1:AA:602:A:H2'	1:AA:603:U:C6	2.48	0.48
1:AA:611:A:N1	1:AA:629:G:N2	2.61	0.48
1:AA:664:G:OP1	20:AU:64:ARG:NE	2.47	0.48
1:AA:652:U:C2'	1:AA:752:G:H22	2.18	0.48
1:AA:848:C:H2'	1:AA:849:C:O4'	2.14	0.48
1:AA:863:U:O2	1:AA:863:U:C2'	2.47	0.48
1:AA:943:U:C2'	1:AA:944:G:H5'	2.44	0.48
2:AC:12:G:C2'	2:AC:13:C:O5'	2.62	0.48
2:AC:35:A:C2'	2:AC:36:U:O5'	2.62	0.48
3:AD:41:G:N1	3:AD:42:C:C2	2.82	0.48
4:AE:95:GLN:O	4:AE:97:TRP:N	2.47	0.48
5:AF:178:LEU:O	5:AF:179:ARG:HB2	2.14	0.48
7:AH:59:GLY:O	7:AH:62:ALA:N	2.47	0.48
8:AI:35:ALA:O	8:AI:36:ARG:CB	2.58	0.48
9:AJ:20:ASP:O	9:AJ:23:VAL:HB	2.13	0.48
9:AJ:43:PHE:HD2	9:AJ:44:TYR:CE2	2.32	0.48
9:AJ:63:LYS:HE2	9:AJ:63:LYS:HA	1.96	0.48
10:AK:112:LEU:HB2	10:AK:133:LEU:HD23	1.95	0.48
10:AK:36:LEU:HD12	10:AK:48:TYR:CG	2.49	0.48
11:AL:108:VAL:C	11:AL:110:GLU:H	2.12	0.48
12:AM:3:LYS:HG3	12:AM:75:ILE:HG23	1.95	0.48
12:AM:4:ILE:HD13	12:AM:98:ILE:HG21	1.95	0.48
12:AM:5:ARG:HA	12:AM:73:ASP:OD1	2.14	0.48
13:AN:99:GLN:CA	13:AN:105:VAL:HG21	2.43	0.48
16:AQ:40:CYS:HB2	16:AQ:42:ILE:CG1	2.39	0.48
18:AS:3:LYS:HA	18:AS:4:ILE:HD13	1.95	0.48
19:AT:25:ARG:HH21	19:AT:40:LYS:CD	2.26	0.48
20:AU:46:GLU:HG2	20:AU:85:LEU:CD1	2.43	0.48
1:AA:191:G:C5	22:AW:105:SER:HB3	2.47	0.48
48:B1:36:ILE:CD1	48:B1:37:GLY:H	2.24	0.48
49:B2:29:ARG:CB	49:B2:30:ARG:NH1	2.68	0.48
49:B2:6:VAL:CG2	49:B2:56:VAL:HG23	2.43	0.48
50:B3:53:GLU:OE1	50:B3:54:GLY:N	2.47	0.48
50:B3:62:ARG:O	50:B3:65:ASP:OD1	2.32	0.48
52:B5:19:ARG:HD3	52:B5:19:ARG:C	2.33	0.48
53:B6:11:LYS:HE3	53:B6:15:THR:CG2	2.43	0.48
24:BA:459:U:OP2	53:B6:40:TRP:CG	2.67	0.48
24:BA:2528:U:P	55:B8:30:PRO:HB2	2.53	0.48
24:BA:1138:G:N2	24:BA:1139:G:C1'	2.77	0.48
24:BA:1218:C:O2'	24:BA:1219:G:H5'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1313:U:C2	24:BA:1314:C:C5	3.02	0.48
24:BA:1392:A:C6	24:BA:1393:A:C6	3.01	0.48
24:BA:1451:C:O2	24:BA:1451:C:H2'	2.14	0.48
24:BA:1487:G:H2'	24:BA:1488:G:C8	2.40	0.48
24:BA:1499:C:H3'	24:BA:1500:G:C8	2.49	0.48
24:BA:1510:A:C3'	24:BA:1511:A:H8	2.20	0.48
24:BA:1545(A):A:C2'	24:BA:1546:C:H5'	2.43	0.48
24:BA:1571:A:H2	24:BA:1572:A:C8	2.31	0.48
24:BA:1662:C:N3	24:BA:1663:C:N4	2.61	0.48
24:BA:1668:A:C5	24:BA:1674:G:C2	3.01	0.48
24:BA:1775:U:H2'	24:BA:1776:G:C8	2.48	0.48
24:BA:1779:U:HO2'	24:BA:1783:A:H62	1.54	0.48
24:BA:1815:A:C1'	24:BA:1817:G:H1'	2.42	0.48
24:BA:1906:G:H2'	24:BA:1907:G:H8	1.79	0.48
24:BA:1955:U:O3'	24:BA:1956:U:H5	1.96	0.48
24:BA:1900:A:H2	24:BA:1970:A:C6	2.32	0.48
24:BA:2023:G:N1	24:BA:2041:U:C4	2.82	0.48
24:BA:2226:C:N4	24:BA:2227:A:C2	2.82	0.48
24:BA:2307:G:N7	24:BA:2308:G:N2	2.62	0.48
24:BA:2309:A:N3	24:BA:2309:A:C2'	2.75	0.48
24:BA:2521:C:H2'	24:BA:2522:U:H5'	1.83	0.48
24:BA:2591:C:H2'	24:BA:2592:G:H8	1.73	0.48
24:BA:2627:G:N2	24:BA:2628:C:N1	2.62	0.48
24:BA:270(E):G:OP2	24:BA:270(E):G:H8	1.97	0.48
24:BA:270(V):G:C5	24:BA:270(W):G:N7	2.82	0.48
24:BA:2779:U:H4'	24:BA:2781:A:OP1	2.14	0.48
24:BA:2819:G:H3'	24:BA:2821:A:H62	1.77	0.48
24:BA:338:G:N7	45:BX:4:LYS:HG2	2.29	0.48
24:BA:52:A:C5	24:BA:53:A:N7	2.82	0.48
24:BA:667:U:C4	24:BA:668:G:N7	2.82	0.48
24:BA:712:G:C4	24:BA:713:G:C8	3.02	0.48
24:BA:728:G:N2	24:BA:763:G:OP1	2.47	0.48
24:BA:728:G:O2'	24:BA:729:G:C5'	2.61	0.48
24:BA:868:U:C4	24:BA:869:G:N7	2.82	0.48
24:BA:874:G:C2	24:BA:875:G:C8	3.01	0.48
24:BA:988:A:C2	24:BA:989:G:N2	2.81	0.48
25:BB:100:G:C6	25:BB:101:A:N6	2.82	0.48
25:BB:60:C:O2	25:BB:61:G:C8	2.67	0.48
27:BD:149:PRO:HD3	27:BD:189:CYS:SG	2.54	0.48
27:BD:206:LEU:HD23	27:BD:207:GLY:N	2.14	0.48
27:BD:208:LYS:HZ2	27:BD:211:ARG:NE	2.04	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:53:PHE:HD1	27:BD:53:PHE:N	2.06	0.48
28:BE:119:ARG:HH11	28:BE:120:TRP:HB3	1.77	0.48
28:BE:13:ARG:HD2	28:BE:13:ARG:C	2.33	0.48
28:BE:158:GLY:O	28:BE:160:TYR:HD1	1.96	0.48
28:BE:187:ALA:C	28:BE:189:PRO:CD	2.81	0.48
28:BE:105:THR:O	28:BE:197:ILE:HD12	2.13	0.48
28:BE:48:GLN:OE1	28:BE:48:GLN:N	2.47	0.48
29:BF:144:LYS:HE3	29:BF:144:LYS:HB2	1.62	0.48
29:BF:200:GLU:OE2	29:BF:201:VAL:HG23	2.13	0.48
29:BF:56:GLU:C	29:BF:58:ALA:H	2.14	0.48
30:BG:131:TYR:CD2	30:BG:132:ASN:N	2.71	0.48
30:BG:141:PHE:CD2	30:BG:145:THR:HA	2.49	0.48
31:BH:149:ARG:CZ	31:BH:164:TYR:HB3	2.44	0.48
31:BH:152:ARG:CG	31:BH:152:ARG:NH2	2.69	0.48
34:BM:123:TYR:HB2	34:BM:129:PRO:HB2	1.95	0.48
34:BM:135:PRO:O	34:BM:136:GLU:O	2.32	0.48
34:BM:87:LEU:HA	34:BM:90:MET:CB	2.42	0.48
35:BN:107:ARG:O	35:BN:108:GLU:C	2.49	0.48
35:BN:18:LYS:N	35:BN:45:GLU:OE2	2.46	0.48
24:BA:2684:U:O2'	35:BN:67:LYS:HD2	2.14	0.48
36:BO:123:LEU:CD2	36:BO:134:ALA:CA	2.91	0.48
37:BP:54:MET:HE1	37:BP:118:LEU:CD2	2.43	0.48
37:BP:54:MET:HA	37:BP:117:ALA:HB1	1.96	0.48
37:BP:98:LYS:H	37:BP:99:PRO:CD	2.27	0.48
38:BQ:11:ASN:CG	38:BQ:12:ARG:H	2.16	0.48
38:BQ:28:LEU:HA	38:BQ:34:ILE:HG13	1.96	0.48
39:BR:10:ARG:NH2	39:BR:89:ARG:HH22	2.11	0.48
24:BA:2845:G:OP1	40:BS:57:PHE:O	2.31	0.48
41:BT:46:ALA:HA	41:BT:49:HIS:HD2	1.77	0.48
41:BT:65:ILE:CD1	41:BT:95:LEU:HB2	2.44	0.48
24:BA:1249:U:H1'	41:BT:6:THR:HG23	1.95	0.48
42:BU:35:LEU:O	42:BU:61:VAL:CG1	2.53	0.48
42:BU:3:ALA:CB	42:BU:44:LYS:CE	2.91	0.48
42:BU:4:ILE:N	42:BU:44:LYS:HZ2	2.12	0.48
42:BU:43:GLU:CB	42:BU:48:GLY:HA2	2.33	0.48
43:BV:2:GLU:HG2	43:BV:72:LYS:HZ3	1.79	0.48
44:BW:17:ALA:HB1	44:BW:21:PHE:CE2	2.49	0.48
44:BW:60:ARG:HA	44:BW:75:ASP:OD1	2.14	0.48
46:BY:151:HIS:C	46:BY:153:SER:N	2.67	0.48
46:BY:60:GLU:H	46:BY:60:GLU:CD	2.16	0.48
24:BA:2277:G:C3'	47:BZ:12:ASN:HD21	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2353:G:C4'	47:BZ:32:ARG:HH22	2.26	0.48
47:BZ:82:ARG:CZ	47:BZ:83:PRO:O	2.62	0.48
26:BC:200:LYS:HZ1	26:BC:204:ALA:HB3	1.79	0.48
26:BC:22:ILE:HD13	26:BC:190:ARG:HH11	1.77	0.48
24:BA:1497:U:O4	24:BA:1577:C:C4'	2.61	0.48
24:BA:363(D):G:C2	24:BA:363(E):U:C1'	2.97	0.48
26:BC:71:GLN:CD	26:BC:72:VAL:H	2.18	0.48
1:AA:1053:G:O3'	1:AA:1054:C:H4'	2.14	0.47
1:AA:1180:A:OP1	11:AL:102:LEU:CD1	2.61	0.47
1:AA:1055:A:N6	1:AA:1206:G:N7	2.62	0.47
1:AA:1306:A:H1'	1:AA:1332:A:N6	2.29	0.47
1:AA:1480:G:C2	1:AA:1481:U:H1'	2.48	0.47
1:AA:17:U:H1'	1:AA:1080:A:C2	2.49	0.47
1:AA:20:U:O4'	1:AA:572:A:C6	2.67	0.47
1:AA:47:C:C3'	1:AA:48:C:H5''	2.37	0.47
1:AA:828:A:N1	1:AA:859:A:C1'	2.77	0.47
1:AA:16:A:N6	1:AA:920:U:N3	2.61	0.47
1:AA:95:G:H2'	1:AA:96:G:O4'	2.13	0.47
1:AA:962:C:C4	1:AA:963:G:C5	3.01	0.47
2:AC:60:U:O2	2:AC:60:U:C2'	2.61	0.47
4:AE:178:ARG:NE	4:AE:196:LEU:HB2	2.22	0.47
4:AE:84:GLU:CG	4:AE:233:SER:HB3	2.43	0.47
5:AF:76:VAL:O	5:AF:83:ARG:CG	2.59	0.47
6:AG:146:ILE:HD12	6:AG:146:ILE:O	2.14	0.47
7:AH:109:ILE:HD13	7:AH:139:LEU:HD11	1.96	0.47
7:AH:129:ILE:O	7:AH:132:ALA:N	2.47	0.47
7:AH:133:TYR:HD2	7:AH:136:MET:HG3	1.79	0.47
7:AH:20:GLN:O	7:AH:23:GLY:O	2.32	0.47
7:AH:82:VAL:O	7:AH:82:VAL:HG13	2.14	0.47
10:AK:100:ILE:HB	10:AK:125:ARG:HH21	1.76	0.47
4:AE:179:LYS:HG2	10:AK:72:PRO:HB3	1.96	0.47
11:AL:37:PHE:CA	11:AL:40:LEU:HD12	2.40	0.47
5:AF:23:TYR:CD1	12:AM:11:PHE:HB2	2.49	0.47
13:AN:85:ARG:CZ	13:AN:111:ASP:OD2	2.62	0.47
13:AN:64:ALA:O	13:AN:65:ALA:C	2.51	0.47
14:AO:104:VAL:O	14:AO:106:ASP:N	2.47	0.47
14:AO:35:GLY:C	14:AO:82:VAL:HG13	2.34	0.47
14:AO:53:ARG:CB	14:AO:69:TYR:HE1	2.20	0.47
15:AP:18:ALA:HB2	15:AP:45:VAL:CG2	2.43	0.47
17:AR:11:VAL:HA	17:AR:14:GLU:OE2	2.14	0.47
17:AR:53:HIS:NE2	17:AR:57:LEU:HD21	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:8:ARG:HH12	18:AS:11:SER:CA	2.26	0.47
18:AS:54:GLU:O	18:AS:54:GLU:CD	2.52	0.47
1:AA:277:C:OP1	19:AT:41:LYS:HD2	2.14	0.47
1:AA:189:U:C4	19:AT:72:ARG:NH2	2.80	0.47
20:AU:30:ASP:OD1	20:AU:32:ARG:HB2	2.14	0.47
20:AU:59:SER:O	20:AU:62:GLU:N	2.47	0.47
21:AV:15:LEU:HD21	21:AV:38:SER:CB	2.41	0.47
22:AW:81:LYS:O	22:AW:84:LEU:CB	2.62	0.47
22:AW:87:LYS:O	22:AW:90:GLN:N	2.47	0.47
49:B2:4:LEU:HB3	49:B2:37:LEU:CD1	2.43	0.47
50:B3:31:ILE:CD1	50:B3:31:ILE:N	2.65	0.47
43:BV:19:LEU:O	51:B4:25:LEU:HD21	2.14	0.47
51:B4:30:LEU:HD13	51:B4:39:MET:SD	2.54	0.47
52:B5:30:THR:HG22	52:B5:31:PRO:HD3	1.95	0.47
52:B5:8:LYS:HG2	52:B5:29:ASN:HA	1.96	0.47
53:B6:42:LEU:CA	53:B6:44:PRO:HD2	2.43	0.47
53:B6:48:LYS:O	53:B6:49:ARG:CB	2.62	0.47
24:BA:2349:G:H8	54:B7:42:ARG:NH2	2.12	0.47
24:BA:1069:A:C8	24:BA:1074:G:C6	3.01	0.47
24:BA:1077:A:C8	24:BA:1078:U:C4	3.02	0.47
24:BA:1222:C:O2'	24:BA:1223:C:H5'	2.14	0.47
24:BA:1242:A:OP1	24:BA:1242:A:C8	2.67	0.47
24:BA:1249:U:O2	24:BA:1250:G:H1'	2.14	0.47
24:BA:1313:U:P	24:BA:1313:U:C6	3.07	0.47
24:BA:1353:A:C2'	24:BA:1354:A:O4'	2.62	0.47
24:BA:1365:A:C5	24:BA:1366:A:N7	2.82	0.47
24:BA:137(A):G:N2	24:BA:142:G:C2	2.82	0.47
24:BA:1448:G:O6	24:BA:1464:C:N4	2.47	0.47
24:BA:1468:C:H2'	24:BA:1469:A:H8	1.76	0.47
24:BA:1472:A:C8	24:BA:1474:C:C5	3.02	0.47
24:BA:1491:G:C2	24:BA:1492:G:O2'	2.64	0.47
24:BA:1559:G:C5'	24:BA:1559:G:C8	2.95	0.47
24:BA:1565:C:C4	24:BA:1567:A:C8	3.02	0.47
24:BA:1663:C:C2'	24:BA:1664:A:O4'	2.61	0.47
24:BA:1707:G:N2	24:BA:1708:C:C2	2.82	0.47
24:BA:1754:C:N4	24:BA:1755:A:N6	2.62	0.47
24:BA:149:A:N6	24:BA:176:G:H1	2.09	0.47
24:BA:1826:G:C5	24:BA:1827:C:C5	3.02	0.47
24:BA:1897:G:C2	24:BA:1898:U:H1'	2.49	0.47
24:BA:1918:A:H3'	24:BA:1918:A:C8	2.49	0.47
24:BA:1935:G:N9	24:BA:1962:C:N4	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2016:U:H2'	24:BA:2017:U:C6	2.48	0.47
24:BA:529:A:N6	24:BA:2023:G:N9	2.62	0.47
24:BA:46:C:C6	24:BA:215:G:C8	3.02	0.47
24:BA:2226:C:N3	24:BA:2227:A:N3	2.62	0.47
24:BA:2250:G:N7	37:BP:83:MET:HE3	2.29	0.47
24:BA:2259:G:H2'	24:BA:2260:C:C6	2.49	0.47
24:BA:2387:U:H1'	47:BZ:41:ARG:NH2	2.28	0.47
24:BA:2422:A:H2'	24:BA:2424:C:H5	1.79	0.47
24:BA:2481:G:O2'	24:BA:2482:G:H5'	2.14	0.47
24:BA:2529:G:OP2	24:BA:2530:A:H8	1.97	0.47
24:BA:2550:G:H2'	24:BA:2551:C:C6	2.49	0.47
24:BA:2653:U:C2	24:BA:2654:A:N7	2.82	0.47
24:BA:2657:A:N7	24:BA:2658:C:C5	2.81	0.47
24:BA:2815:C:C2	24:BA:2816:C:C5	3.02	0.47
24:BA:2850:A:C4	24:BA:2869:G:H4'	2.49	0.47
24:BA:2834:G:N2	24:BA:2883:A:N7	2.62	0.47
24:BA:337:C:H3'	24:BA:338:G:C5'	2.44	0.47
24:BA:342:G:C4	24:BA:343:C:C6	3.02	0.47
24:BA:427:U:O2'	24:BA:428:A:H4'	2.14	0.47
24:BA:457:A:OP2	44:BW:69:TYR:OH	2.16	0.47
24:BA:558:G:OP1	34:BM:112:LEU:CG	2.61	0.47
24:BA:611:C:N4	24:BA:612:G:N2	2.62	0.47
24:BA:653:A:N7	24:BA:655:A:C1'	2.77	0.47
24:BA:672:C:N3	24:BA:809:G:C2	2.82	0.47
24:BA:729:G:N9	24:BA:730:C:H1'	2.27	0.47
24:BA:765:G:C5	24:BA:766:C:C5	3.02	0.47
24:BA:822:U:O2	24:BA:823:G:C8	2.66	0.47
24:BA:863:A:H2'	24:BA:864:G:C8	2.49	0.47
24:BA:996:A:N6	24:BA:1160:G:N1	2.62	0.47
25:BB:100:G:C4	25:BB:101:A:N7	2.82	0.47
27:BD:119:ALA:HB2	27:BD:130:ALA:N	2.28	0.47
27:BD:159:ALA:CB	27:BD:198:ASN:HB3	2.44	0.47
27:BD:7:LYS:HG3	27:BD:25:THR:HB	1.96	0.47
27:BD:269:PHE:O	27:BD:270:ILE:HG13	2.14	0.47
24:BA:1655:A:H4'	28:BE:113:PHE:O	2.14	0.47
28:BE:117:MET:HG2	28:BE:136:ARG:CZ	2.44	0.47
28:BE:22:PRO:HB2	28:BE:185:LYS:H	1.79	0.47
29:BF:39:TRP:CD2	29:BF:101:LEU:HB3	2.49	0.47
29:BF:158:THR:C	29:BF:177:ALA:O	2.51	0.47
31:BH:69:ARG:HH21	31:BH:70:THR:N	2.12	0.47
32:BK:5:LEU:HB3	32:BK:8:PRO:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:9:LEU:HB3	32:BK:13:GLY:HA3	1.95	0.47
33:BL:14:ALA:HB2	33:BL:53:VAL:HG11	1.95	0.47
34:BM:63:THR:HG1	34:BM:65:LYS:HD3	1.77	0.47
35:BN:31:LYS:CB	35:BN:32:TYR:CE2	2.96	0.47
36:BO:65:ARG:C	36:BO:65:ARG:NH2	2.67	0.47
37:BP:64:ILE:C	37:BP:106:VAL:HG12	2.35	0.47
37:BP:75:THR:HB	37:BP:77:LYS:CD	2.43	0.47
38:BQ:32:GLY:O	38:BQ:115:GLU:CB	2.54	0.47
39:BR:7:TYR:O	39:BR:11:LYS:HG3	2.12	0.47
39:BR:13:ARG:HH22	39:BR:92:TYR:H	1.61	0.47
39:BR:30:ARG:CA	39:BR:34:HIS:HD2	2.27	0.47
39:BR:68:GLN:O	39:BR:71:ARG:HD3	2.14	0.47
39:BR:94:TYR:C	39:BR:99:LYS:CB	2.82	0.47
40:BS:109:GLU:O	40:BS:110:ILE:CD1	2.58	0.47
40:BS:68:TYR:CE1	40:BS:69:GLY:O	2.67	0.47
40:BS:83:ILE:O	40:BS:84:GLN:C	2.50	0.47
42:BU:5:VAL:O	42:BU:6:LYS:HB2	2.14	0.47
42:BU:23:GLU:N	42:BU:93:GLU:HB3	2.29	0.47
43:BV:76:VAL:HG13	43:BV:77:ASP:N	2.28	0.47
45:BX:2:ARG:NH2	45:BX:4:LYS:CB	2.68	0.47
46:BY:15:PRO:HG3	46:BY:38:TYR:CZ	2.48	0.47
46:BY:2:GLU:OE2	46:BY:58:VAL:CB	2.62	0.47
47:BZ:62:LEU:HD22	47:BZ:63:VAL:HG13	1.95	0.47
32:BK:109:ILE:HG21	32:BK:113:ARG:NH2	2.29	0.47
32:BK:76:THR:N	32:BK:141:LYS:HE2	2.28	0.47
32:BK:81:VAL:O	32:BK:147:GLN:CD	2.52	0.47
3:AD:9:A:N3	3:AD:46:G:C1'	2.77	0.47
26:BC:100:ILE:HG21	26:BC:126:LYS:CB	2.43	0.47
26:BC:186:ALA:HB1	26:BC:190:ARG:NH2	2.29	0.47
24:BA:162:U:H5''	24:BA:163:U:OP2	2.13	0.47
1:AA:1171:G:C2'	1:AA:1172:C:C6	2.97	0.47
24:BA:273(F):C:C4	24:BA:274:G:C8	3.02	0.47
13:AN:114:VAL:HG22	13:AN:115:PRO:N	2.30	0.47
1:AA:1047:G:OP1	16:AQ:4:LYS:CD	2.62	0.47
1:AA:1067:A:O2'	1:AA:1068:G:H8	1.96	0.47
1:AA:1188:A:C4	1:AA:1189:C:C5	3.02	0.47
1:AA:1225:A:H4'	21:AV:78:ARG:CD	2.34	0.47
1:AA:1262:C:H2'	1:AA:1263:C:C5	2.46	0.47
1:AA:1267:C:N4	1:AA:1268:A:C2	2.79	0.47
1:AA:1269:A:C8	1:AA:1270:C:C1'	2.85	0.47
1:AA:1286:A:H3'	1:AA:1286:A:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:133:U:H5''	1:AA:134:A:OP1	2.13	0.47
1:AA:1372:U:C6	1:AA:1373:G:N7	2.82	0.47
1:AA:1396:A:O2'	1:AA:1397:C:C5'	2.62	0.47
1:AA:1443:G:O2'	1:AA:1447:G:P	2.71	0.47
1:AA:1447:G:N2	1:AA:1460:A:H1'	2.29	0.47
1:AA:1498:U:O2'	1:AA:1499:A:O4'	2.32	0.47
1:AA:926:G:C4	1:AA:1505:G:N2	2.82	0.47
1:AA:198:G:N7	1:AA:220:G:N2	2.62	0.47
1:AA:22:G:H2'	1:AA:23:C:H6	1.75	0.47
1:AA:362:G:H4'	14:AO:28:LYS:HZ1	1.79	0.47
1:AA:61:G:N2	1:AA:379:C:H5'	2.28	0.47
1:AA:394:G:H2'	1:AA:395:C:C6	2.50	0.47
1:AA:465:A:N6	1:AA:467:G:C2	2.82	0.47
1:AA:482:A:C2	1:AA:483:C:C6	3.02	0.47
1:AA:562:C:C4	1:AA:884:U:H5	2.32	0.47
1:AA:735:C:C5'	20:AU:71:LYS:HD3	2.44	0.47
1:AA:814:A:N7	1:AA:816:A:C5	2.82	0.47
1:AA:864:A:H2	1:AA:917:G:C2	2.31	0.47
2:AC:72:A:C2	2:AC:73:A:C6	3.02	0.47
5:AF:85:ARG:C	5:AF:87:LEU:N	2.67	0.47
7:AH:76:ILE:HG21	7:AH:142:LEU:CD1	2.40	0.47
7:AH:92:LYS:O	7:AH:119:LEU:HG	2.14	0.47
10:AK:63:LEU:CB	10:AK:65:TYR:CZ	2.96	0.47
11:AL:6:GLY:HA2	11:AL:83:ARG:CB	2.40	0.47
1:AA:1249:C:C1'	11:AL:70:LYS:HZ3	2.27	0.47
12:AM:33:GLN:O	12:AM:34:VAL:CB	2.63	0.47
13:AN:18:ARG:NH2	13:AN:37:GLY:HA2	2.29	0.47
13:AN:25:TYR:HE2	13:AN:87:THR:HB	1.78	0.47
15:AP:63:THR:HG22	15:AP:64:TRP:N	2.29	0.47
15:AP:92:HIS:CE1	15:AP:110:ARG:HH22	2.30	0.47
16:AQ:24:CYS:HB2	16:AQ:40:CYS:CA	2.43	0.47
17:AR:33:THR:O	17:AR:36:ILE:N	2.47	0.47
17:AR:62:GLN:O	17:AR:66:LEU:CD2	2.60	0.47
17:AR:63:ARG:HH12	17:AR:87:ILE:HD11	1.74	0.47
18:AS:40:ASP:HA	18:AS:41:PRO:HD3	1.72	0.47
19:AT:3:LYS:HB3	19:AT:61:GLU:O	2.13	0.47
19:AT:97:SER:O	19:AT:98:LEU:CD2	2.57	0.47
48:B1:21:ARG:HB2	48:B1:22:GLU:OE2	2.15	0.47
48:B1:36:ILE:O	48:B1:38:GLN:CD	2.52	0.47
24:BA:95:G:H4'	48:B1:39:LEU:C	2.34	0.47
48:B1:56:LEU:O	48:B1:58:VAL:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:13:ILE:CG2	49:B2:14:GLY:N	2.60	0.47
51:B4:58:LEU:CD2	51:B4:58:LEU:C	2.82	0.47
52:B5:17:LYS:CE	52:B5:48:VAL:CG1	2.91	0.47
52:B5:45:LYS:O	52:B5:46:HIS:HB3	2.13	0.47
24:BA:1075:C:O2	24:BA:1075:C:C2'	2.62	0.47
24:BA:1023:U:H4'	24:BA:1123:C:OP1	2.14	0.47
24:BA:1134:G:C4	24:BA:1136:G:OP2	2.67	0.47
24:BA:1165:U:C2	24:BA:1166:C:C5	3.03	0.47
24:BA:1196:C:N3	24:BA:1197:G:N7	2.62	0.47
24:BA:1284:A:O2'	24:BA:1285:G:H5'	2.14	0.47
24:BA:1308:A:C2	24:BA:1309:G:C4	3.02	0.47
24:BA:1353:A:H2'	24:BA:1354:A:O4'	2.15	0.47
24:BA:1364:G:N2	24:BA:1368:G:C4	2.82	0.47
24:BA:1462:C:H4'	24:BA:2703:C:H5'	1.96	0.47
24:BA:1561:G:O2'	24:BA:1562:A:H5'	2.13	0.47
24:BA:1613:G:C2'	24:BA:1617:C:N4	2.77	0.47
24:BA:1750:G:O2'	24:BA:1751:C:C5'	2.60	0.47
24:BA:1776:G:N2	24:BA:1777:U:C2	2.83	0.47
24:BA:1792:G:P	27:BD:206:LEU:HD11	2.54	0.47
24:BA:17:G:H4'	41:BT:25:TRP:CH2	2.49	0.47
24:BA:1813:G:N3	27:BD:52:ARG:NH2	2.61	0.47
24:BA:1893:C:O2'	24:BA:1894:C:H5'	2.13	0.47
24:BA:1894:C:C2	24:BA:1895:C:C5	3.02	0.47
24:BA:1919:A:H2'	24:BA:1920:C:H5'	1.95	0.47
24:BA:2017:U:O2	51:B4:9:LYS:HB3	2.15	0.47
24:BA:2037:G:H2'	24:BA:2038:G:H8	1.72	0.47
24:BA:2052:G:H4'	28:BE:143:ASN:N	2.29	0.47
24:BA:2061:G:C2'	24:BA:2062:A:H5''	2.43	0.47
24:BA:2093:G:O4'	32:BK:29:TYR:CE2	2.67	0.47
24:BA:46:C:OP2	24:BA:215:G:H3'	2.14	0.47
24:BA:2075:U:H3	24:BA:2238:G:H1	1.62	0.47
24:BA:2286:A:H5'	24:BA:2287:A:OP1	2.14	0.47
24:BA:2310:A:H8	24:BA:2310:A:O5'	1.96	0.47
24:BA:2320:A:H61	39:BR:4:LEU:HD21	1.72	0.47
24:BA:2352:A:C8	24:BA:2366:A:N6	2.83	0.47
24:BA:2397:G:C2	24:BA:2420:C:C2	3.02	0.47
24:BA:2479:G:H5''	24:BA:2537:U:H4'	1.96	0.47
24:BA:2493:U:C4'	24:BA:2493:U:C6	2.96	0.47
24:BA:2517:C:C2	24:BA:2542:A:N6	2.82	0.47
24:BA:746:A:N7	24:BA:2611:U:O3'	2.47	0.47
24:BA:2610:C:H4'	24:BA:2611:U:O5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2675:A:N1	24:BA:2732:G:N2	2.62	0.47
24:BA:2758:A:N6	24:BA:2759:G:O6	2.47	0.47
24:BA:2834:G:C6	24:BA:2879:C:C2	3.02	0.47
24:BA:2692:C:H2'	24:BA:2847:U:O2'	2.14	0.47
24:BA:344:G:H2'	24:BA:345:A:O4'	2.13	0.47
24:BA:450:G:N2	24:BA:454:A:C6	2.81	0.47
24:BA:454:A:O2'	24:BA:455:C:N3	2.47	0.47
24:BA:46:C:C5	24:BA:215:G:C8	3.02	0.47
24:BA:535:C:O2'	41:BT:53:ARG:CD	2.62	0.47
24:BA:616:A:H5'	29:BF:182:ASN:ND2	2.29	0.47
24:BA:627:A:H2	24:BA:651:G:C5'	2.26	0.47
24:BA:62:C:O5'	24:BA:62:C:H6	1.96	0.47
24:BA:655:A:O3'	24:BA:656:G:O4'	2.31	0.47
24:BA:675:A:N6	24:BA:804:A:C1'	2.77	0.47
24:BA:779:U:H2'	24:BA:780:G:H5'	1.95	0.47
24:BA:854:G:C2'	24:BA:855:G:O5'	2.62	0.47
24:BA:864:G:C2'	24:BA:865:C:H1'	2.43	0.47
24:BA:875:G:C6	24:BA:876:C:C4	3.01	0.47
24:BA:888:C:C2'	24:BA:889:C:OP2	2.62	0.47
24:BA:968:G:H2'	24:BA:969:U:O4'	2.15	0.47
24:BA:969:U:H2'	24:BA:970:C:C6	2.49	0.47
24:BA:1789:A:OP1	27:BD:222:ARG:CG	2.63	0.47
27:BD:7:LYS:HA	27:BD:27:THR:HA	1.95	0.47
28:BE:116:VAL:HG21	28:BE:137:HIS:O	2.13	0.47
28:BE:118:LYS:C	28:BE:118:LYS:HZ3	2.17	0.47
28:BE:119:ARG:HE	28:BE:120:TRP:N	2.11	0.47
28:BE:34:VAL:CG1	28:BE:36:ARG:NH2	2.77	0.47
28:BE:50:GLY:C	28:BE:76:ARG:NE	2.68	0.47
15:AP:3:ARG:HH11	30:BG:113:ARG:C	2.18	0.47
30:BG:2:PRO:HA	30:BG:5:VAL:HG21	1.94	0.47
30:BG:37:VAL:HG12	30:BG:157:ILE:HG12	1.96	0.47
31:BH:15:VAL:HG22	31:BH:17:VAL:N	2.29	0.47
31:BH:33:LEU:CD1	31:BH:75:ALA:HA	2.31	0.47
33:BL:103:GLN:HE22	33:BL:107:ILE:CG1	2.27	0.47
33:BL:77:LEU:HB2	33:BL:111:LYS:HZ2	1.79	0.47
33:BL:128:ALA:HB1	33:BL:132:ARG:NH1	2.29	0.47
34:BM:118:LYS:C	34:BM:120:LEU:H	2.17	0.47
24:BA:1665:A:C4'	35:BN:1:MET:HG2	2.45	0.47
35:BN:28:SER:O	35:BN:29:ASN:CB	2.62	0.47
35:BN:82:ASN:ND2	35:BN:82:ASN:N	2.61	0.47
36:BO:136:GLU:HB3	36:BO:137:LYS:CE	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:662:G:H5''	36:BO:18:ARG:H	1.78	0.47
36:BO:85:LEU:HB2	36:BO:86:LYS:CE	2.44	0.47
37:BP:43:THR:O	37:BP:47:ILE:HG13	2.14	0.47
37:BP:23:GLY:N	37:BP:99:PRO:HG3	2.28	0.47
38:BQ:100:LEU:HD13	38:BQ:101:ALA:N	2.29	0.47
38:BQ:33:ARG:HA	38:BQ:115:GLU:HB2	1.96	0.47
38:BQ:86:ARG:HH22	38:BQ:87:TYR:HE2	1.54	0.47
39:BR:16:ASN:O	39:BR:20:ARG:HG2	2.14	0.47
40:BS:111:ARG:HA	40:BS:114:LEU:CD1	2.44	0.47
24:BA:1754:C:C5	40:BS:98:LYS:HD3	2.45	0.47
41:BT:114:LYS:HG3	41:BT:115:ALA:N	2.29	0.47
42:BU:74:LYS:C	42:BU:75:PHE:CG	2.87	0.47
24:BA:1225:C:O4'	42:BU:87:HIS:CE1	2.67	0.47
43:BV:14:PRO:O	43:BV:16:LYS:NZ	2.46	0.47
46:BY:16:SER:HA	46:BY:19:ARG:CD	2.34	0.47
46:BY:95:PRO:O	46:BY:128:VAL:HG13	2.14	0.47
32:BK:130:TYR:HE1	32:BK:140:LEU:H	1.63	0.47
32:BK:68:LEU:HD22	32:BK:72:LEU:CD1	2.43	0.47
26:BC:30:LYS:CD	26:BC:185:LEU:HD11	2.42	0.47
26:BC:190:ARG:CB	26:BC:190:ARG:NH1	2.77	0.47
26:BC:45:ALA:O	26:BC:170:ALA:HA	2.14	0.47
36:BO:148:LEU:CD2	36:BO:149:GLU:N	2.77	0.47
1:AA:1452:C:C4'	1:AA:1453:G:N2	2.77	0.47
24:BA:2828:C:H2'	24:BA:2829:C:C6	2.49	0.47
31:BH:54:ARG:HH12	31:BH:57:ASP:HB2	1.78	0.47
1:AA:1111:A:O5'	1:AA:1111:A:C8	2.67	0.47
1:AA:1159:U:H5	1:AA:1181:G:N7	2.08	0.47
1:AA:1246:C:N3	1:AA:1247:U:C5	2.82	0.47
1:AA:1251:A:C2	1:AA:1252:A:N1	2.81	0.47
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.67	0.47
1:AA:1286:A:H3'	1:AA:1286:A:H8	1.78	0.47
1:AA:1307:U:H2'	1:AA:1308:U:O4'	2.14	0.47
1:AA:1304:G:C2	1:AA:1333:A:N6	2.83	0.47
1:AA:1237:C:C4	1:AA:1336:C:C6	2.99	0.47
1:AA:945:G:C2	1:AA:1337:G:N3	2.82	0.47
1:AA:1399:C:O2	1:AA:1401:G:C8	2.67	0.47
1:AA:1438:G:C4	1:AA:1439:C:C5	3.02	0.47
1:AA:22:G:C2	1:AA:23:C:C2	3.02	0.47
1:AA:292:G:H3'	1:AA:293:G:H8	1.79	0.47
1:AA:7:G:C8	1:AA:298:A:H1'	2.49	0.47
1:AA:364:A:C4	1:AA:365:U:O4	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:413:G:C2'	1:AA:414:A:OP2	2.62	0.47
1:AA:486:U:C2'	1:AA:487:A:O5'	2.63	0.47
1:AA:564:C:O2'	10:AK:91:ARG:NH2	2.47	0.47
1:AA:55:A:H2'	1:AA:56:U:H5'	1.96	0.47
1:AA:66:G:H8	1:AA:66:G:O5'	1.98	0.47
1:AA:708:C:H4'	13:AN:37:GLY:CA	2.43	0.47
1:AA:833:U:C2	1:AA:834:C:C5	3.02	0.47
1:AA:976:G:H3'	1:AA:976:G:C8	2.49	0.47
2:AC:10:G:C5	2:AC:26:G:N2	2.82	0.47
3:AD:40:C:H2'	3:AD:41:G:H5''	1.96	0.47
3:AD:71:G:C4	3:AD:72:C:C5	3.02	0.47
4:AE:199:TYR:O	4:AE:201:ILE:CD1	2.63	0.47
4:AE:42:ILE:HD12	4:AE:203:GLY:N	2.29	0.47
5:AF:123:GLN:O	5:AF:124:ILE:C	2.53	0.47
5:AF:124:ILE:HD11	5:AF:130:VAL:HG13	1.97	0.47
5:AF:110:ASN:CG	5:AF:144:SER:OG	2.52	0.47
7:AH:145:LYS:O	7:AH:148:VAL:HB	2.14	0.47
1:AA:1080:A:P	7:AH:14:ARG:NH2	2.87	0.47
7:AH:78:HIS:ND1	10:AK:104:ARG:CD	2.77	0.47
9:AJ:20:ASP:OD1	9:AJ:23:VAL:HG23	2.14	0.47
9:AJ:79:ARG:HA	9:AJ:83:ALA:O	2.14	0.47
1:AA:969:A:C1'	12:AM:55:LYS:HZ1	2.27	0.47
13:AN:43:SER:OG	13:AN:44:SER:N	2.48	0.47
14:AO:24:VAL:HG13	14:AO:26:ALA:HB2	1.97	0.47
15:AP:126:LYS:HD2	15:AP:126:LYS:O	2.15	0.47
5:AF:8:ILE:CG2	16:AQ:50:LYS:O	2.61	0.47
18:AS:3:LYS:HB2	18:AS:65:GLN:O	2.14	0.47
18:AS:58:TYR:O	18:AS:61:SER:N	2.47	0.47
20:AU:36:ASN:O	20:AU:37:VAL:C	2.52	0.47
20:AU:68:LYS:O	20:AU:71:LYS:HB2	2.14	0.47
21:AV:17:GLU:O	21:AV:21:GLU:HG2	2.15	0.47
21:AV:19:VAL:CG2	21:AV:43:GLU:OE2	2.54	0.47
22:AW:20:LEU:O	22:AW:23:ARG:HB3	2.15	0.47
1:AA:1459:C:OP1	22:AW:27:LYS:CE	2.62	0.47
48:B1:19:LEU:HD13	48:B1:20:VAL:CA	2.43	0.47
48:B1:3:LYS:CA	48:B1:6:GLU:HG2	2.43	0.47
51:B4:55:ARG:HE	51:B4:55:ARG:N	2.08	0.47
52:B5:38:LYS:NZ	52:B5:48:VAL:HG23	2.29	0.47
54:B7:14:VAL:HA	54:B7:23:VAL:O	2.14	0.47
24:BA:1029:A:O2'	24:BA:1030:G:H5'	2.14	0.47
24:BA:1061:U:OP1	24:BA:1062:G:C8	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1216:G:P	41:BT:12:ARG:HH21	2.37	0.47
24:BA:1247:A:C6	36:BO:21:ARG:NH2	2.74	0.47
24:BA:1399:C:H2'	24:BA:1400:G:C8	2.49	0.47
24:BA:1472:A:C8	24:BA:1474:C:H5	2.31	0.47
24:BA:1473:G:H21	24:BA:1474:C:H1'	1.79	0.47
24:BA:120:U:O2	24:BA:149:A:C2	2.67	0.47
24:BA:149:A:C8	24:BA:150:C:C6	3.02	0.47
24:BA:1657:C:H2'	24:BA:1658:C:C6	2.35	0.47
24:BA:1689:A:C2	24:BA:1690:A:C8	3.03	0.47
24:BA:1718:G:H3'	24:BA:1718:G:C8	2.50	0.47
24:BA:1759:A:H2'	24:BA:1760:A:O4'	2.14	0.47
24:BA:1819:A:H1'	24:BA:1821:A:C4	2.49	0.47
24:BA:1917:U:C4	24:BA:1917:U:OP2	2.67	0.47
24:BA:1909:C:C2	24:BA:1922:G:C2	3.02	0.47
24:BA:194:G:H2'	24:BA:195:A:C8	2.49	0.47
24:BA:1764:G:C6	24:BA:1989:G:C2	3.02	0.47
24:BA:570:G:C6	24:BA:2030:A:H2	2.31	0.47
24:BA:2199:A:C8	24:BA:2199:A:O5'	2.68	0.47
24:BA:2258:C:C5	24:BA:2426:A:H4'	2.49	0.47
24:BA:2269:A:O5'	24:BA:2269:A:C8	2.67	0.47
24:BA:2305:A:C2'	24:BA:2306:C:H5''	2.44	0.47
24:BA:2335:A:O2'	24:BA:2336:A:H8	1.97	0.47
24:BA:2468:G:H8	24:BA:2476:A:N1	2.10	0.47
24:BA:2537:U:C2	24:BA:2538:C:C5	3.02	0.47
24:BA:2577:A:H5''	24:BA:2578:G:C5'	2.45	0.47
24:BA:2606:C:C2	24:BA:2607:G:N7	2.82	0.47
24:BA:2607:G:H1	24:BA:2608:G:N2	2.11	0.47
24:BA:2644:G:O5'	24:BA:2644:G:H8	1.97	0.47
24:BA:2651:C:H2'	24:BA:2652:C:C6	2.49	0.47
24:BA:2690:C:C6	24:BA:2690:C:H3'	2.49	0.47
24:BA:270(B):A:C1'	24:BA:270(C):C:H5	2.27	0.47
24:BA:270(L):U:O2	24:BA:270(M):U:C6	2.68	0.47
24:BA:2741:A:H3'	24:BA:2742:C:H6	1.80	0.47
24:BA:2773:C:O2'	24:BA:2774:C:O5'	2.31	0.47
24:BA:39:C:C2	24:BA:40:C:C5	3.02	0.47
24:BA:503:A:C4'	24:BA:504:U:H5''	2.25	0.47
24:BA:530:G:C6	24:BA:2022:U:OP1	2.67	0.47
24:BA:611:C:H42	24:BA:612:G:N2	2.13	0.47
24:BA:61:G:C6	24:BA:62:C:N3	2.83	0.47
24:BA:637:A:H5'	24:BA:638:G:O5'	2.14	0.47
24:BA:66:C:O2	24:BA:66:C:H2'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:678:C:C2	24:BA:679:C:C5	3.02	0.47
24:BA:678:C:N3	24:BA:679:C:C5	2.81	0.47
24:BA:209:C:C5'	24:BA:681:G:H4'	2.43	0.47
24:BA:746:A:HO2'	24:BA:747:U:P	2.37	0.47
24:BA:196:A:C6	24:BA:828:U:H5''	2.49	0.47
24:BA:886:C:C6	24:BA:886:C:O5'	2.52	0.47
25:BB:54:G:H2'	25:BB:55:U:C6	2.50	0.47
25:BB:71:C:C2'	25:BB:72:G:C5'	2.68	0.47
25:BB:78:A:N7	25:BB:99:A:N6	2.62	0.47
24:BA:1860:G:H4'	26:BC:205:LYS:O	2.14	0.47
27:BD:131:LEU:CG	27:BD:132:PRO:CD	2.85	0.47
27:BD:223:GLY:C	27:BD:225:ALA:N	2.68	0.47
27:BD:259:THR:N	27:BD:261:LYS:HE3	2.29	0.47
27:BD:262:ARG:HB3	27:BD:266:SER:HB3	1.96	0.47
28:BE:116:VAL:HG23	28:BE:117:MET:N	2.29	0.47
28:BE:133:LYS:HB3	28:BE:137:HIS:CG	2.49	0.47
28:BE:22:PRO:CA	28:BE:185:LYS:CA	2.85	0.47
28:BE:185:LYS:O	28:BE:185:LYS:CG	2.61	0.47
28:BE:33:VAL:HG21	28:BE:47:VAL:HG12	1.96	0.47
28:BE:43:GLY:O	28:BE:44:TYR:C	2.52	0.47
28:BE:93:VAL:C	28:BE:95:ILE:N	2.66	0.47
29:BF:167:ALA:HB1	29:BF:173:VAL:HG21	1.96	0.47
29:BF:182:ASN:OD1	29:BF:185:ASP:OD1	2.32	0.47
29:BF:90:PHE:O	29:BF:91:GLY:O	2.31	0.47
30:BG:101:ILE:HG23	30:BG:102:PHE:N	2.30	0.47
30:BG:174:GLU:OE2	30:BG:175:LEU:CG	2.63	0.47
30:BG:61:ALA:HB1	30:BG:67:LYS:CE	2.44	0.47
31:BH:104:GLU:O	31:BH:113:VAL:HB	2.14	0.47
31:BH:118:PRO:HD2	31:BH:121:ILE:CD1	2.31	0.47
31:BH:15:VAL:CG2	31:BH:17:VAL:HB	2.44	0.47
31:BH:7:LEU:HD13	31:BH:65:HIS:CE1	2.48	0.47
31:BH:6:ARG:O	31:BH:6:ARG:HG3	2.14	0.47
34:BM:33:LEU:C	34:BM:33:LEU:CD2	2.72	0.47
34:BM:42:TRP:CZ3	41:BT:71:GLN:NE2	2.81	0.47
34:BM:38:HIS:C	34:BM:42:TRP:HE3	2.17	0.47
34:BM:56:ASN:HA	34:BM:124:ALA:O	2.14	0.47
35:BN:24:VAL:HG21	35:BN:26:LYS:CE	2.35	0.47
24:BA:1667:G:P	35:BN:7:TYR:CE1	3.06	0.47
35:BN:8:LEU:HD12	35:BN:8:LEU:O	2.14	0.47
36:BO:120:ALA:O	36:BO:122:PRO:HD2	2.12	0.47
24:BA:389:G:O6	36:BO:64:LYS:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:93:GLY:HA2	36:BO:96:THR:HG23	1.95	0.47
37:BP:24:GLY:N	37:BP:101:ARG:HH21	2.10	0.47
37:BP:32:TYR:CB	37:BP:105:GLU:O	2.49	0.47
37:BP:118:LEU:HD13	37:BP:131:ILE:HD13	1.97	0.47
37:BP:6:ARG:HE	37:BP:8:LYS:HG2	1.79	0.47
37:BP:16:ARG:NH1	37:BP:72:LYS:HG2	2.30	0.47
37:BP:90:VAL:HG23	37:BP:93:TYR:OH	2.14	0.47
38:BQ:53:HIS:HA	38:BQ:56:LYS:CD	2.36	0.47
39:BR:3:ARG:N	39:BR:3:ARG:CD	2.77	0.47
40:BS:55:ASN:ND2	40:BS:57:PHE:CE2	2.79	0.47
41:BT:15:LYS:HA	41:BT:18:LEU:HB2	1.95	0.47
42:BU:14:VAL:CG1	42:BU:19:LYS:HE2	2.44	0.47
42:BU:62:LEU:CD1	42:BU:96:ILE:HD13	2.44	0.47
43:BV:35:ILE:HG23	43:BV:36:LEU:N	2.29	0.47
24:BA:142:G:O4'	44:BW:37:THR:OG1	2.32	0.47
45:BX:8:LYS:O	45:BX:10:GLY:N	2.47	0.47
46:BY:165:VAL:HG12	46:BY:166:SER:H	1.76	0.47
47:BZ:70:GLN:O	47:BZ:78:TYR:O	2.32	0.47
32:BK:75:LEU:O	32:BK:141:LYS:NZ	2.48	0.47
3:AD:64:C:H2'	3:AD:65:U:C5	2.49	0.47
24:BA:2111:C:N3	24:BA:2118:U:C4	2.82	0.47
24:BA:2146:C:C4	24:BA:2147:G:C8	3.02	0.47
24:BA:2168:G:N9	24:BA:2170:A:OP2	2.47	0.47
26:BC:116:THR:CG2	26:BC:147:PHE:O	2.61	0.47
26:BC:51:PRO:HG2	26:BC:52:ARG:H	1.79	0.47
24:BA:2094:G:C6	24:BA:2095:C:C4	3.02	0.47
1:AA:1154:G:O2'	1:AA:1155:G:H5'	2.15	0.47
1:AA:116:A:H2'	1:AA:117:G:H5'	1.96	0.47
1:AA:1282:C:C2'	1:AA:1282:C:O2	2.61	0.47
1:AA:1284:C:C6	1:AA:1285:A:C8	3.02	0.47
1:AA:1395:C:H2'	1:AA:1396:A:C8	2.48	0.47
1:AA:1464:G:C6	1:AA:1465:C:N4	2.82	0.47
1:AA:1431:C:N4	1:AA:1470:G:N1	2.61	0.47
1:AA:148:G:O2'	1:AA:149:A:H5'	2.15	0.47
1:AA:149:A:N6	1:AA:171:A:C5	2.77	0.47
1:AA:148:G:C2	1:AA:175:C:C4	3.01	0.47
1:AA:383:A:H2'	1:AA:384:G:C4'	2.43	0.47
1:AA:424:G:C2	1:AA:425:G:C8	3.02	0.47
1:AA:453:A:N6	1:AA:480:U:C2	2.82	0.47
1:AA:549:C:H2'	1:AA:550:G:O5'	2.14	0.47
1:AA:595:G:H5'	1:AA:596:C:OP1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:622:A:C8	1:AA:623:C:C5	3.03	0.47
1:AA:822:C:H2'	1:AA:823:G:O5'	2.14	0.47
1:AA:891:U:C5	1:AA:906:G:C2	2.95	0.47
1:AA:925:G:O4'	1:AA:1502:A:C8	2.66	0.47
1:AA:92:G:H2'	1:AA:93:U:C6	2.49	0.47
2:AC:76:A:H3'	2:AC:76:A:H8	1.76	0.47
4:AE:216:SER:OG	4:AE:233:SER:HB2	2.14	0.47
4:AE:36:ARG:O	4:AE:37:ASN:C	2.52	0.47
6:AG:105:VAL:HG13	6:AG:120:LEU:HD11	1.96	0.47
6:AG:33:MET:HE3	6:AG:33:MET:N	2.29	0.47
6:AG:43:HIS:CB	6:AG:46:LYS:HG3	2.44	0.47
9:AJ:94:ARG:NH1	9:AJ:98:SER:OG	2.47	0.47
10:AK:83:ILE:HB	10:AK:137:VAL:CG2	2.43	0.47
10:AK:69:ARG:HH11	10:AK:70:GLN:HB2	1.78	0.47
10:AK:6:ILE:O	10:AK:7:ALA:C	2.51	0.47
10:AK:82:HIS:NE2	10:AK:84:ARG:HB2	2.29	0.47
11:AL:38:GLN:C	11:AL:40:LEU:H	2.18	0.47
12:AM:7:LYS:O	12:AM:97:GLU:CG	2.63	0.47
13:AN:65:ALA:CB	13:AN:98:LEU:HD23	2.41	0.47
13:AN:96:ARG:HA	13:AN:99:GLN:OE1	2.14	0.47
16:AQ:22:THR:HG22	16:AQ:23:ARG:H	1.79	0.47
1:AA:761:G:H4'	19:AT:103:GLY:H	1.79	0.47
19:AT:40:LYS:HZ3	19:AT:40:LYS:CB	2.27	0.47
19:AT:83:ASP:O	19:AT:84:LEU:C	2.53	0.47
1:AA:986:A:H4'	21:AV:55:LYS:CE	2.43	0.47
22:AW:20:LEU:O	22:AW:24:LEU:HG	2.13	0.47
22:AW:26:ASN:O	22:AW:27:LYS:C	2.50	0.47
22:AW:53:LEU:O	22:AW:56:MET:HB2	2.13	0.47
22:AW:88:VAL:O	22:AW:92:LEU:HG	2.15	0.47
48:B1:27:LEU:O	48:B1:28:MET:C	2.52	0.47
50:B3:1:MET:SD	50:B3:11:PRO:HG3	2.54	0.47
50:B3:21:VAL:C	50:B3:23:GLU:H	2.16	0.47
53:B6:31:LEU:HB3	53:B6:35:ARG:HD2	1.96	0.47
24:BA:1008:C:H2'	24:BA:1008:C:O2	2.13	0.47
24:BA:1035:U:O3'	31:BH:59:ARG:CZ	2.63	0.47
24:BA:1061:U:O3'	24:BA:1070:A:C4'	2.62	0.47
24:BA:1173:G:N2	24:BA:1175:U:OP2	2.44	0.47
24:BA:1173:G:N2	24:BA:1175:U:P	2.77	0.47
24:BA:1368:G:C2'	24:BA:1369:G:H5'	2.43	0.47
24:BA:1420:U:O4'	24:BA:1420:U:OP2	2.32	0.47
24:BA:1427:A:O2'	24:BA:1428:C:P	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:150:C:O2	24:BA:150:C:C2'	2.62	0.47
24:BA:1532:C:OP2	24:BA:1532:C:C6	2.66	0.47
24:BA:1639:U:O2	24:BA:1639:U:H2'	2.15	0.47
24:BA:1662:C:C2'	24:BA:1663:C:C6	2.92	0.47
24:BA:1700:A:C8	24:BA:1701:A:C1'	2.97	0.47
24:BA:184:C:N3	24:BA:213:A:N6	2.62	0.47
24:BA:1858:G:C6	24:BA:1883:G:N1	2.82	0.47
24:BA:1918:A:C3'	24:BA:1918:A:C8	2.98	0.47
24:BA:1935:G:C8	24:BA:1962:C:N4	2.82	0.47
24:BA:1132:A:N6	24:BA:2025:C:O2	2.48	0.47
24:BA:219:G:H2'	24:BA:220:G:C5'	2.44	0.47
24:BA:2226:C:C2	24:BA:2227:A:H1'	2.49	0.47
24:BA:2256:G:C8	24:BA:2256:G:H5''	2.49	0.47
24:BA:2349:G:H2'	24:BA:2350:C:C5'	2.44	0.47
24:BA:2435:A:C2'	24:BA:2436:G:O5'	2.62	0.47
24:BA:2736:G:C2	24:BA:2769:C:C2	3.02	0.47
24:BA:352:G:N2	24:BA:353:G:O4'	2.48	0.47
24:BA:398:G:OP2	50:B3:59:PHE:HE2	1.98	0.47
24:BA:417:C:C4	24:BA:418:G:N7	2.82	0.47
24:BA:481:G:O2'	24:BA:507:A:N6	2.48	0.47
24:BA:560:C:H5''	24:BA:560:C:H6	1.79	0.47
24:BA:564:C:H2'	24:BA:565:C:O5'	2.14	0.47
24:BA:685:A:N6	24:BA:773:U:C2	2.83	0.47
24:BA:727:A:HO2'	24:BA:728:G:P	2.36	0.47
24:BA:76:C:H2'	24:BA:77:C:H5'	1.96	0.47
24:BA:786:C:H2'	24:BA:787:U:H5'	1.82	0.47
24:BA:805:G:O6	24:BA:2068:U:C5'	2.62	0.47
24:BA:935:C:H2'	24:BA:936:C:C5	2.49	0.47
24:BA:957:A:C6	24:BA:959:A:C4	3.02	0.47
24:BA:991:C:OP2	24:BA:1186:G:OP2	2.33	0.47
25:BB:38:C:O3'	39:BR:93:LYS:NZ	2.46	0.47
27:BD:224:ALA:O	27:BD:225:ALA:O	2.33	0.47
27:BD:73:VAL:HG23	27:BD:73:VAL:O	2.15	0.47
27:BD:76:PRO:CG	27:BD:98:VAL:HG21	2.43	0.47
27:BD:95:LEU:HD13	27:BD:103:ARG:HB2	1.96	0.47
28:BE:178:GLU:O	28:BE:180:ASN:ND2	2.44	0.47
28:BE:2:LYS:HD2	28:BE:2:LYS:H	1.80	0.47
28:BE:2:LYS:N	28:BE:2:LYS:HD2	2.30	0.47
28:BE:90:THR:OG1	28:BE:95:ILE:HD11	2.15	0.47
29:BF:22:ALA:O	29:BF:23:ASP:O	2.33	0.47
29:BF:29:ASN:ND2	29:BF:30:PRO:N	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2312:U:OP2	30:BG:86:MET:CE	2.62	0.47
31:BH:41:MET:HE1	31:BH:68:THR:HG23	1.95	0.47
32:BK:7:GLU:CA	32:BK:14:ASP:HA	2.44	0.47
32:BK:6:LEU:C	32:BK:6:LEU:HD23	2.35	0.47
33:BL:112:MET:O	33:BL:113:PRO:C	2.52	0.47
33:BL:131:ALA:O	33:BL:136:VAL:N	2.44	0.47
33:BL:24:GLY:O	33:BL:34:ILE:HG12	2.14	0.47
34:BM:99:LEU:CD1	34:BM:103:VAL:HG11	2.43	0.47
35:BN:70:LYS:CD	35:BN:107:ARG:HH12	2.26	0.47
35:BN:12:ASP:C	35:BN:94:ARG:HD2	2.34	0.47
35:BN:86:ILE:HG21	35:BN:90:GLN:HA	1.96	0.47
36:BO:45:LEU:C	36:BO:46:LYS:CD	2.83	0.47
36:BO:96:THR:OG1	36:BO:102:ARG:CD	2.56	0.47
24:BA:2278:A:OP1	37:BP:14:ARG:CD	2.63	0.47
37:BP:18:LYS:NZ	37:BP:87:LYS:HZ3	2.13	0.47
37:BP:45:GLN:O	37:BP:48:GLU:HG2	2.14	0.47
38:BQ:61:HIS:C	38:BQ:64:ARG:HH11	2.18	0.47
39:BR:3:ARG:HG2	39:BR:4:LEU:N	2.18	0.47
39:BR:63:THR:O	39:BR:66:ALA:CB	2.53	0.47
40:BS:102:ILE:HG22	40:BS:104:ASN:CG	2.35	0.47
40:BS:57:PHE:CA	40:BS:61:PHE:CD2	2.87	0.47
40:BS:7:ILE:O	40:BS:9:LEU:N	2.46	0.47
40:BS:95:ARG:HH21	40:BS:95:ARG:HB3	1.76	0.47
41:BT:101:ARG:HD2	42:BU:13:ARG:HH11	1.74	0.47
43:BV:11:ARG:N	43:BV:11:ARG:HH21	1.99	0.47
43:BV:72:LYS:HG2	43:BV:72:LYS:O	2.14	0.47
43:BV:86:LEU:CB	43:BV:87:PRO:HD2	2.36	0.47
44:BW:42:ALA:O	44:BW:46:ALA:HB2	2.14	0.47
45:BX:47:LYS:HB2	45:BX:56:PRO:CG	2.43	0.47
45:BX:38:ILE:HG12	45:BX:60:PHE:CE1	2.49	0.47
45:BX:81:LYS:HE2	45:BX:96:ILE:CG2	2.44	0.47
45:BX:95:LYS:HG2	45:BX:96:ILE:N	2.29	0.47
25:BB:76:G:P	46:BY:10:ARG:HB3	2.54	0.47
46:BY:128:VAL:HG12	46:BY:129:SER:H	1.80	0.47
46:BY:50:GLN:O	46:BY:51:ALA:HB3	2.14	0.47
46:BY:7:ALA:C	46:BY:8:TYR:CD1	2.88	0.47
1:AA:160:A:C2'	1:AA:161:A:H5'	2.44	0.47
1:AA:1044:A:H2'	1:AA:1045:C:C5'	2.44	0.47
1:AA:1095:U:H5'	1:AA:1109:C:C2	2.46	0.47
1:AA:1099:G:N7	1:AA:1100:C:C4	2.83	0.47
1:AA:1128:C:C6	1:AA:1139:G:O6	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1196:U:C6	1:AA:1196:U:H3'	2.47	0.47
1:AA:1277:C:H2'	1:AA:1279:A:H8	1.80	0.47
1:AA:1390:U:C4	1:AA:1391:U:O4	2.68	0.47
1:AA:781:A:H4'	1:AA:1522:U:HO2'	1.79	0.47
1:AA:198:G:H2'	1:AA:199:G:C5'	2.44	0.47
1:AA:251:G:C2	1:AA:266:G:C6	3.02	0.47
1:AA:334:C:H2'	1:AA:335:C:H6	1.79	0.47
1:AA:363:A:N1	1:AA:364:A:C4	2.83	0.47
1:AA:537:G:O2'	1:AA:538:G:H5'	2.14	0.47
1:AA:597:G:C6	1:AA:644:G:C6	3.02	0.47
1:AA:788:U:C2	1:AA:789:U:O2	2.67	0.47
1:AA:836:G:C6	1:AA:837:G:N7	2.83	0.47
1:AA:960:U:O2	1:AA:960:U:C2'	2.62	0.47
1:AA:968:A:H5''	1:AA:969:A:O5'	2.15	0.47
1:AA:96:G:C5	1:AA:97:U:C4	3.02	0.47
2:AC:48:C:C4	2:AC:59:A:C4	3.02	0.47
2:AC:5:G:C2	2:AC:6:G:C8	3.03	0.47
4:AE:80:ILE:CG1	4:AE:212:GLN:HG2	2.41	0.47
6:AG:105:VAL:HG11	6:AG:121:VAL:HG23	1.96	0.47
6:AG:150:GLU:C	6:AG:152:SER:H	2.16	0.47
6:AG:15:GLU:OE2	6:AG:63:LYS:HB3	2.15	0.47
8:AI:75:LEU:O	8:AI:79:LEU:HD23	2.14	0.47
9:AJ:50:ILE:HD13	9:AJ:58:PRO:CA	2.37	0.47
9:AJ:73:MET:CA	9:AJ:90:GLU:O	2.53	0.47
10:AK:48:TYR:CD1	10:AK:49:GLU:N	2.83	0.47
11:AL:67:GLY:N	11:AL:73:GLN:NE2	2.61	0.47
12:AM:33:GLN:O	12:AM:34:VAL:HB	2.14	0.47
13:AN:17:GLY:HA3	13:AN:77:MET:CE	2.45	0.47
13:AN:47:VAL:C	13:AN:49:GLY:H	2.18	0.47
14:AO:83:VAL:CA	14:AO:105:TYR:HD1	2.27	0.47
1:AA:551:U:C5'	14:AO:119:LYS:HZ1	2.28	0.47
1:AA:760:G:C2'	19:AT:103:GLY:HA3	2.45	0.47
19:AT:45:HIS:CE1	19:AT:47:PRO:N	2.82	0.47
1:AA:277:C:H5''	19:AT:68:ARG:NH1	2.29	0.47
19:AT:81:ARG:O	19:AT:84:LEU:CD1	2.62	0.47
8:AI:96:PRO:N	20:AU:32:ARG:HG3	2.29	0.47
20:AU:69:THR:O	20:AU:71:LYS:N	2.47	0.47
21:AV:40:ILE:CB	21:AV:67:VAL:O	2.45	0.47
48:B1:19:LEU:O	48:B1:19:LEU:HD22	2.14	0.47
49:B2:4:LEU:CG	49:B2:37:LEU:HD13	2.43	0.47
49:B2:40:THR:HG22	49:B2:42:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:35:GLU:CB	51:B4:49:CYS:HB3	2.44	0.47
51:B4:4:HIS:CG	51:B4:5:PRO:CD	2.97	0.47
24:BA:686:G:O2'	53:B6:5:TRP:O	2.27	0.47
54:B7:30:ARG:NH1	54:B7:44:LYS:HB2	2.23	0.47
54:B7:26:LYS:O	54:B7:47:LYS:HD2	2.15	0.47
55:B8:9:ARG:NH2	55:B8:16:VAL:CG1	2.75	0.47
24:BA:1065:U:O2	24:BA:1068:G:C8	2.68	0.47
24:BA:1061:U:H4'	24:BA:1070:A:C1'	2.44	0.47
24:BA:1024:G:C6	24:BA:1134:G:H1'	2.48	0.47
24:BA:1020:A:N3	24:BA:1140:C:N3	2.62	0.47
24:BA:1224:G:H2'	42:BU:87:HIS:ND1	2.27	0.47
24:BA:1238:G:C2'	24:BA:1239:G:C5'	2.92	0.47
24:BA:124:G:C6	53:B6:19:ARG:NH2	2.78	0.47
24:BA:1255:U:O4	29:BF:72:ARG:O	2.31	0.47
24:BA:1315:C:H2'	24:BA:1316:U:C5	2.49	0.47
24:BA:1332:G:C5	24:BA:1609:A:N6	2.83	0.47
24:BA:1352:U:H3'	24:BA:1352:U:O2	2.14	0.47
24:BA:1355:G:H2'	24:BA:1356:G:H8	1.79	0.47
24:BA:1405:U:C2	24:BA:1406:U:C4	3.03	0.47
24:BA:1425:G:C5	24:BA:1426:G:O6	2.68	0.47
24:BA:137(A):G:N2	24:BA:142:G:N3	2.63	0.47
24:BA:1444(A):A:O4'	24:BA:1444(A):A:OP2	2.32	0.47
24:BA:1467:C:C5	24:BA:1468:C:N4	2.83	0.47
24:BA:149:A:C8	24:BA:150:C:O4'	2.67	0.47
24:BA:1672:C:O2	24:BA:2582:G:C1'	2.63	0.47
24:BA:688:U:C5'	24:BA:1780:A:N1	2.76	0.47
24:BA:179:G:H5'	53:B6:32:LYS:CE	2.41	0.47
24:BA:1827:C:H2'	24:BA:1828:G:C4'	2.44	0.47
24:BA:1869:G:N2	24:BA:1878:G:N7	2.57	0.47
24:BA:1878:G:O2'	24:BA:1879:C:H5'	2.14	0.47
24:BA:1894:C:O2	24:BA:1895:C:C5	2.68	0.47
24:BA:1955:U:H5'	24:BA:1956:U:C5	2.49	0.47
24:BA:2215:G:C2	24:BA:2216:G:C5	3.03	0.47
24:BA:2226:C:C4	24:BA:2227:A:N3	2.83	0.47
24:BA:2234:G:O2'	24:BA:2235:G:H5'	2.13	0.47
24:BA:2265:U:H3'	24:BA:2265:U:C6	2.49	0.47
24:BA:2296:U:H3'	24:BA:2296:U:C6	2.50	0.47
24:BA:22:C:H2'	24:BA:23:G:O5'	2.15	0.47
24:BA:2660:A:N6	24:BA:2661:G:C2	2.82	0.47
24:BA:2736:G:N2	24:BA:2769:C:C2	2.82	0.47
24:BA:2781:A:C2	24:BA:2782:G:N2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2808:U:O2'	24:BA:2810:A:OP1	2.29	0.47
24:BA:2819:G:C2'	24:BA:2821:A:H62	2.26	0.47
24:BA:2848:G:C2'	24:BA:2849:U:OP2	2.62	0.47
24:BA:292:C:H3'	24:BA:293:U:O4	2.09	0.47
24:BA:29:U:O2	24:BA:30:G:N7	2.47	0.47
24:BA:360:G:H2'	24:BA:361:G:C4'	2.43	0.47
24:BA:364:C:C2'	24:BA:365:C:H6	2.20	0.47
24:BA:35:G:C4	24:BA:36:G:C8	3.02	0.47
24:BA:412:A:N3	24:BA:413:C:C1'	2.77	0.47
24:BA:609:A:C5	24:BA:609(A):G:O6	2.67	0.47
24:BA:689:A:C3'	24:BA:690:G:H5''	2.45	0.47
24:BA:684:G:HO2'	24:BA:788:A:H62	1.59	0.47
24:BA:917:A:H2'	24:BA:918:A:C4'	2.44	0.47
24:BA:918:A:N3	24:BA:919:G:N7	2.62	0.47
25:BB:100:G:H2'	25:BB:101:A:O4'	2.15	0.47
25:BB:32:C:C2'	25:BB:33:G:H8	2.27	0.47
27:BD:10:THR:H	27:BD:23:GLU:CG	2.27	0.47
27:BD:124:PRO:HD2	27:BD:129:ASN:HD22	1.78	0.47
27:BD:142:VAL:CB	27:BD:192:THR:O	2.62	0.47
27:BD:147:LEU:HD22	27:BD:185:VAL:CG2	2.44	0.47
27:BD:232:PRO:CG	27:BD:246:PRO:C	2.81	0.47
27:BD:61:LEU:HD23	27:BD:62:TYR:N	2.29	0.47
27:BD:63:ARG:NH2	27:BD:84:TYR:O	2.47	0.47
27:BD:65:ILE:HG22	27:BD:66:ASP:H	1.80	0.47
27:BD:86:PRO:HD2	27:BD:87:ASN:HD22	1.78	0.47
24:BA:2619:C:H5'	28:BE:151:TYR:O	2.15	0.47
24:BA:2632:A:H2	28:BE:61:ARG:HG2	1.79	0.47
24:BA:2635:C:O3'	28:BE:78:LEU:HA	2.14	0.47
29:BF:157:VAL:O	29:BF:158:THR:HB	2.14	0.47
29:BF:62:ARG:CZ	29:BF:63:LYS:NZ	2.78	0.47
30:BG:10:LYS:O	30:BG:11:TYR:C	2.51	0.47
30:BG:110:ALA:O	30:BG:111:LEU:C	2.52	0.47
15:AP:7:VAL:N	30:BG:114:ILE:HD13	2.30	0.47
30:BG:163:ALA:O	30:BG:164:GLU:C	2.52	0.47
30:BG:56:ALA:HA	30:BG:59:GLU:CG	2.45	0.47
24:BA:1112:G:OP1	31:BH:4:ILE:HD13	2.15	0.47
31:BH:6:ARG:CA	31:BH:6:ARG:CZ	2.80	0.47
32:BK:48:GLU:OE1	32:BK:48:GLU:HA	2.15	0.47
33:BL:104:VAL:HG13	33:BL:127:ILE:HG21	1.97	0.47
33:BL:74:ALA:HB1	33:BL:130:SER:OG	2.15	0.47
34:BM:69:GLN:OE1	34:BM:87:LEU:CD1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:75:TYR:N	34:BM:75:TYR:HD1	2.11	0.47
24:BA:1131:G:N9	34:BM:82:LEU:HD11	2.29	0.47
34:BM:96:GLU:O	34:BM:99:LEU:HG	2.15	0.47
24:BA:1244:G:H4'	36:BO:9:ASN:HB2	1.96	0.47
37:BP:121:ALA:O	37:BP:124:LYS:HE2	2.12	0.47
37:BP:16:ARG:HB2	37:BP:72:LYS:HZ1	1.79	0.47
38:BQ:104:ARG:NH2	38:BQ:109:ALA:HB2	2.29	0.47
39:BR:26:LEU:C	39:BR:26:LEU:HD22	2.35	0.47
40:BS:113:LYS:HA	40:BS:116:ALA:HB2	1.95	0.47
24:BA:2847:U:OP1	40:BS:54:ARG:NH2	2.47	0.47
40:BS:65:LYS:HD3	40:BS:75:ILE:CG2	2.42	0.47
35:BN:77:ILE:CD1	40:BS:65:LYS:HZ1	2.27	0.47
41:BT:31:SER:C	41:BT:32:PHE:CD1	2.88	0.47
42:BU:51:VAL:CG1	42:BU:51:VAL:O	2.62	0.47
42:BU:91:TYR:O	42:BU:92:THR:CB	2.53	0.47
43:BV:20:VAL:CG2	43:BV:47:VAL:HG11	2.44	0.47
43:BV:59:VAL:HG21	43:BV:66:GLU:HA	1.95	0.47
44:BW:18:TYR:HA	44:BW:21:PHE:CE1	2.48	0.47
45:BX:49:VAL:HG21	45:BX:51:VAL:CG2	2.44	0.47
46:BY:120:ILE:HG22	46:BY:171:ILE:HD11	1.96	0.47
46:BY:41:LEU:HG	46:BY:41:LEU:H	1.27	0.47
47:BZ:21:LEU:HD12	47:BZ:39:ARG:HB3	1.95	0.47
32:BK:96:ASP:O	32:BK:99:GLU:OE1	2.32	0.47
3:AD:64:C:N3	3:AD:65:U:C5	2.81	0.47
24:BA:2176:A:O2'	24:BA:2177:C:H5'	2.14	0.47
24:BA:2177:C:H2'	24:BA:2178:C:O4'	2.15	0.47
26:BC:166:ASP:CG	26:BC:167:LYS:N	2.67	0.47
26:BC:211:SER:HA	26:BC:223:ARG:HE	1.79	0.47
26:BC:75:LEU:CD1	26:BC:99:ILE:HD12	2.45	0.47
32:BK:63:ALA:CA	32:BK:67:ARG:HH21	2.27	0.47
1:AA:1167:A:OP1	1:AA:1167:A:C8	2.67	0.47
1:AA:216:G:C2	1:AA:217:C:C4	3.02	0.47
44:BW:11:PRO:O	44:BW:13:LEU:CD2	2.63	0.47
1:AA:1045:C:O5'	1:AA:1045:C:H6	1.98	0.47
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.49	0.47
1:AA:1049:U:C2	1:AA:1201:A:H1'	2.50	0.47
1:AA:1213:A:C2	1:AA:1215:G:C4	3.02	0.47
1:AA:129(A):G:H3'	1:AA:129(A):G:C8	2.50	0.47
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.22	0.47
1:AA:186(B):C:H2'	1:AA:186(C):G:C5'	2.44	0.47
1:AA:129(A):G:C2'	1:AA:189:U:C6	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:193:C:H2'	1:AA:194:C:C5	2.50	0.47
1:AA:19:C:C2	1:AA:20:U:C5	3.02	0.47
1:AA:246:A:H4'	1:AA:247:G:H4'	1.96	0.47
1:AA:263:A:C3'	1:AA:264:U:H5''	2.43	0.47
1:AA:37:U:OP2	14:AO:123:LYS:NZ	2.41	0.47
1:AA:46:G:C2	1:AA:396:G:C6	3.02	0.47
1:AA:507:C:H3'	1:AA:508:C:C6	2.49	0.47
1:AA:516:U:C5	1:AA:517:G:O6	2.67	0.47
1:AA:665:A:O2'	1:AA:666:G:H5''	2.15	0.47
1:AA:776:G:C5'	1:AA:777:A:OP1	2.61	0.47
1:AA:780:A:H2	1:AA:803:G:N1	2.13	0.47
1:AA:816:A:C2'	1:AA:817:C:OP2	2.63	0.47
1:AA:82:U:C6	1:AA:85:U:OP2	2.67	0.47
1:AA:946:A:N3	1:AA:947:G:N7	2.62	0.47
1:AA:961:U:O4	1:AA:974:A:C6	2.67	0.47
1:AA:978:A:C3'	1:AA:978:A:C8	2.96	0.47
3:AD:38:A:H2'	3:AD:39:U:H5'	1.96	0.47
4:AE:201:ILE:N	4:AE:201:ILE:CD1	2.77	0.47
4:AE:18:GLY:CA	4:AE:41:ILE:HG23	2.43	0.47
4:AE:60:ASP:C	4:AE:64:ARG:CZ	2.83	0.47
4:AE:60:ASP:CB	4:AE:64:ARG:NH2	2.78	0.47
4:AE:82:ARG:N	4:AE:94:ASN:HD21	2.11	0.47
5:AF:120:VAL:CG2	5:AF:137:ALA:CB	2.89	0.47
5:AF:64:VAL:HB	5:AF:99:VAL:CG1	2.44	0.47
6:AG:101:LEU:CB	6:AG:138:TYR:O	2.62	0.47
6:AG:197:PRO:O	6:AG:198:VAL:HG13	2.15	0.47
6:AG:3:ARG:NH2	6:AG:74:GLN:CD	2.68	0.47
6:AG:94:LEU:HD23	6:AG:97:LEU:HD11	1.97	0.47
7:AH:48:ALA:CB	7:AH:54:ALA:N	2.74	0.47
7:AH:59:GLY:HA3	7:AH:63:ARG:HH21	1.77	0.47
7:AH:76:ILE:HD13	7:AH:142:LEU:HB2	1.96	0.47
8:AI:78:GLU:O	8:AI:81:ILE:CD1	2.60	0.47
8:AI:79:LEU:O	8:AI:80:ARG:C	2.53	0.47
10:AK:51:VAL:HG23	10:AK:60:ARG:HB3	1.95	0.47
10:AK:83:ILE:HG13	10:AK:135:CYS:SG	2.54	0.47
11:AL:122:ALA:O	11:AL:123:PRO:C	2.53	0.47
14:AO:110:VAL:CB	14:AO:113:ARG:HG3	2.44	0.47
14:AO:26:ALA:C	14:AO:27:LEU:O	2.49	0.47
15:AP:66:LEU:O	15:AP:70:LEU:CB	2.62	0.47
15:AP:94:ARG:NH2	24:BA:887:A:OP2	2.48	0.47
16:AQ:52:GLN:O	16:AQ:53:LEU:HD23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:33:THR:O	17:AR:36:ILE:CB	2.62	0.47
20:AU:62:GLU:O	20:AU:63:GLN:C	2.53	0.47
21:AV:48:THR:HA	21:AV:60:VAL:O	2.14	0.47
22:AW:80:ARG:O	22:AW:84:LEU:HB2	2.14	0.47
22:AW:89:ARG:O	22:AW:92:LEU:N	2.46	0.47
22:AW:44:ALA:CB	22:AW:91:LEU:HD12	2.41	0.47
24:BA:398:G:OP2	50:B3:59:PHE:CE2	2.67	0.47
50:B3:66:SER:C	50:B3:69:LYS:HB2	2.31	0.47
52:B5:50:ARG:O	52:B5:51:GLU:HB2	2.14	0.47
53:B6:34:ARG:NH1	53:B6:41:ARG:O	2.46	0.47
54:B7:52:LYS:HB2	54:B7:52:LYS:HZ1	1.78	0.47
54:B7:51:ALA:O	54:B7:53:PRO:CD	2.62	0.47
24:BA:1103:A:C2'	24:BA:1104:C:OP1	2.63	0.47
24:BA:1053:C:N4	24:BA:1105:U:C4	2.82	0.47
24:BA:1166:C:H1'	24:BA:1184:G:N2	2.30	0.47
24:BA:1186:G:H3'	24:BA:1187:G:H8	1.80	0.47
24:BA:1222:C:C4	24:BA:1227:A:N6	2.82	0.47
24:BA:1264:G:P	51:B4:10:LYS:NZ	2.88	0.47
24:BA:1352:U:C3'	24:BA:1352:U:O2	2.62	0.47
24:BA:1392:A:C5	24:BA:1393:A:C6	3.02	0.47
24:BA:1489:U:O2	24:BA:1489:U:C2'	2.59	0.47
24:BA:1492:G:H5'	24:BA:1493:C:OP2	2.14	0.47
24:BA:120:U:C1'	24:BA:149:A:H1'	2.43	0.47
24:BA:1507:A:OP1	24:BA:1508:A:H2	1.98	0.47
24:BA:1604:C:O2	24:BA:1605:C:C6	2.67	0.47
24:BA:1609:A:N3	24:BA:1609:A:H3'	2.29	0.47
24:BA:1663:C:H6	24:BA:1663:C:O5'	1.97	0.47
24:BA:1664:A:O2'	35:BN:66:LYS:NZ	2.43	0.47
24:BA:1729:A:N7	24:BA:1731:G:C6	2.82	0.47
24:BA:1756:G:C2'	24:BA:1757:U:OP2	2.62	0.47
24:BA:1879:C:N4	24:BA:1880:C:N4	2.63	0.47
24:BA:1910:G:C6	24:BA:1911:U:C4	3.03	0.47
24:BA:1917:U:C5	24:BA:1918:A:C2	3.02	0.47
1:AA:1517:G:H1'	24:BA:1920:C:OP1	2.14	0.47
24:BA:1966:A:O2'	24:BA:1967:C:O5'	2.32	0.47
24:BA:1930:G:C4	24:BA:1968:G:N7	2.82	0.47
24:BA:1988:C:C2'	24:BA:1989:G:O5'	2.62	0.47
24:BA:2016:U:H1'	51:B4:6:VAL:CG1	2.44	0.47
24:BA:211:A:O2'	24:BA:212:G:H5'	2.14	0.47
24:BA:2232:U:C2'	24:BA:2233:U:O5'	2.62	0.47
24:BA:2320:A:C5'	24:BA:2321:G:N7	2.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2322:A:N7	24:BA:2323:G:N7	2.61	0.47
24:BA:2063:C:O2	24:BA:2451:A:C2	2.68	0.47
24:BA:2553:G:N7	24:BA:2583:G:C4'	2.77	0.47
24:BA:2682:U:C2'	24:BA:2683:C:O5'	2.62	0.47
24:BA:2696:U:H2'	24:BA:2697:G:H8	1.79	0.47
24:BA:2752:C:C4	24:BA:2753:A:C8	3.03	0.47
24:BA:2797:U:O2'	24:BA:2798:C:O3'	2.31	0.47
24:BA:2824:C:C4	24:BA:2825:C:N1	2.83	0.47
24:BA:2849:U:H6	24:BA:2849:U:H3'	1.78	0.47
24:BA:2882:A:H5'	38:BQ:96:ARG:HG3	1.96	0.47
24:BA:319:C:C4	24:BA:320:A:C6	3.02	0.47
24:BA:333:G:N3	24:BA:333:G:H2'	2.28	0.47
24:BA:410:G:H8	24:BA:410:G:O5'	1.97	0.47
24:BA:459:U:OP2	53:B6:40:TRP:CE3	2.68	0.47
24:BA:465:G:O6	24:BA:466:A:N6	2.48	0.47
24:BA:483:A:C2	24:BA:484:C:H1'	2.50	0.47
24:BA:493:G:C2	24:BA:494:G:C4	3.03	0.47
24:BA:593:G:C5	24:BA:594:U:C5	3.03	0.47
24:BA:627:A:C8	24:BA:637:A:N7	2.82	0.47
24:BA:66:C:C2	24:BA:67:U:C5	3.03	0.47
24:BA:696:G:O2'	24:BA:697:C:C5'	2.63	0.47
24:BA:783:A:O2'	24:BA:784:A:OP1	2.27	0.47
24:BA:77:C:H2'	24:BA:78:A:C8	2.48	0.47
24:BA:827:U:C4	24:BA:2430:A:C6	3.02	0.47
24:BA:838:C:C4	24:BA:839:U:C4	3.02	0.47
24:BA:864:G:C2'	24:BA:865:C:C1'	2.89	0.47
24:BA:933:A:C2	24:BA:934:G:C8	3.03	0.47
24:BA:959:A:C4	24:BA:960:A:N7	2.83	0.47
24:BA:946:G:O6	24:BA:972:G:N2	2.47	0.47
25:BB:82:G:C2'	25:BB:83:G:H8	2.27	0.47
27:BD:14:ARG:NH1	27:BD:15:PHE:H	2.08	0.47
27:BD:171:ASP:O	27:BD:186:HIS:CA	2.53	0.47
27:BD:60:ARG:C	27:BD:62:TYR:HD2	2.18	0.47
28:BE:118:LYS:CA	28:BE:118:LYS:HZ3	2.28	0.47
28:BE:180:ASN:HD22	28:BE:180:ASN:H	1.61	0.47
28:BE:4:ILE:H	28:BE:27:LEU:HD21	1.75	0.47
28:BE:67:PHE:O	28:BE:70:ALA:N	2.42	0.47
29:BF:110:LEU:CD1	29:BF:181:LEU:HD23	2.45	0.47
30:BG:121:ASN:CB	30:BG:133:LEU:HG	2.44	0.47
30:BG:36:LYS:HD3	30:BG:37:VAL:N	2.29	0.47
30:BG:59:GLU:HG3	30:BG:60:LEU:N	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:75:LYS:HD2	30:BG:85:GLY:H	1.73	0.47
31:BH:119:GLU:N	31:BH:121:ILE:HG22	2.29	0.47
31:BH:76:VAL:C	31:BH:78:GLY:N	2.66	0.47
31:BH:91:GLY:C	31:BH:93:GLY:H	2.16	0.47
34:BM:103:VAL:HG22	34:BM:104:LYS:H	1.80	0.47
34:BM:56:ASN:OD1	34:BM:126:PRO:O	2.33	0.47
35:BN:24:VAL:HG21	35:BN:26:LYS:HG2	1.93	0.47
35:BN:59:LYS:HA	35:BN:86:ILE:CD1	2.36	0.47
35:BN:73:ASP:HB3	40:BS:79:HIS:NE2	2.30	0.47
36:BO:121:LYS:N	36:BO:122:PRO:CD	2.77	0.47
36:BO:121:LYS:CB	36:BO:137:LYS:CG	2.88	0.47
24:BA:1190:G:OP1	36:BO:31:ALA:CA	2.62	0.47
36:BO:49:ARG:HG2	36:BO:49:ARG:NH2	2.09	0.47
36:BO:97:PRO:N	36:BO:102:ARG:NH2	2.63	0.47
37:BP:120:ILE:O	37:BP:122:GLY:N	2.47	0.47
37:BP:32:TYR:OH	37:BP:108:GLY:CA	2.62	0.47
37:BP:50:ALA:HB2	37:BP:125:LEU:HD11	1.96	0.47
38:BQ:33:ARG:CA	38:BQ:115:GLU:CB	2.91	0.47
24:BA:1275:A:N3	38:BQ:16:HIS:ND1	2.63	0.47
38:BQ:52:ILE:CD1	38:BQ:56:LYS:HG2	2.42	0.47
38:BQ:63:ARG:NH2	38:BQ:76:VAL:HG12	2.29	0.47
39:BR:100:ALA:O	39:BR:102:ALA:N	2.46	0.47
39:BR:37:ALA:HB3	39:BR:51:ALA:CB	2.44	0.47
39:BR:72:ALA:HB3	39:BR:73:LEU:HD13	1.95	0.47
40:BS:2:ASN:O	40:BS:3:ARG:C	2.52	0.47
40:BS:48:ILE:HG12	40:BS:49:VAL:O	2.14	0.47
40:BS:50:ILE:HG22	40:BS:67:SER:O	2.14	0.47
41:BT:115:ALA:O	41:BT:116:ALA:C	2.53	0.47
41:BT:34:LYS:CE	41:BT:37:GLU:OE2	2.62	0.47
41:BT:57:PHE:O	41:BT:58:ARG:C	2.52	0.47
42:BU:77:ALA:O	42:BU:84:LYS:CA	2.54	0.47
45:BX:97:ARG:HB3	45:BX:101:LYS:HG2	1.96	0.47
45:BX:28:LYS:N	45:BX:28:LYS:CD	2.78	0.47
45:BX:32:PRO:C	45:BX:34:LYS:N	2.67	0.47
45:BX:2:ARG:NE	45:BX:3:VAL:H	2.12	0.47
46:BY:111:VAL:HA	46:BY:115:GLY:C	2.34	0.47
46:BY:26:GLY:H	46:BY:38:TYR:HD2	1.59	0.47
32:BK:88:ILE:HD11	32:BK:123:LEU:CD2	2.38	0.47
24:BA:2118:U:C6	24:BA:2147:G:O6	2.67	0.47
26:BC:129:ARG:HG3	26:BC:129:ARG:NH1	2.25	0.47
24:BA:1416:G:H2'	24:BA:1417:C:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1002:G:C2'	1:AA:1002:G:N3	2.73	0.47
1:AA:1028:C:C4	1:AA:1028(A):C:C4	3.03	0.47
24:BA:2104:G:N2	24:BA:2105:C:C2	2.83	0.47
24:BA:718:A:H5'	24:BA:719:C:OP2	2.14	0.47
4:AE:125:PRO:O	4:AE:127:ILE:N	2.48	0.47
6:AG:165:MET:SD	6:AG:165:MET:O	2.73	0.47
24:BA:738:G:N1	24:BA:759:G:C6	2.82	0.47
25:BB:0:A:C5'	25:BB:0:A:N3	2.77	0.47
1:AA:1081:G:OP1	7:AH:18:ARG:HB2	2.15	0.47
1:AA:1129:C:OP2	1:AA:1129:C:H6	1.98	0.47
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.33	0.47
1:AA:1152:A:C2	1:AA:1153:C:C6	3.02	0.47
1:AA:1159:U:C4	1:AA:1182:G:N3	2.82	0.47
1:AA:1206:G:H5'	5:AF:194:GLY:CA	2.38	0.47
1:AA:128:G:C5	1:AA:129:U:C5	3.02	0.47
1:AA:1299:A:C8	1:AA:1301:U:C1'	2.98	0.47
1:AA:1321:C:N3	21:AV:37:ARG:CZ	2.76	0.47
1:AA:195:A:H1'	1:AA:223:U:H5'	1.95	0.47
1:AA:247:G:C2'	1:AA:248:C:O5'	2.63	0.47
1:AA:301:G:H21	1:AA:302:G:C1'	2.12	0.47
1:AA:327:A:C4'	1:AA:328:C:OP1	2.51	0.47
1:AA:467:G:N2	1:AA:468:A:C4	2.82	0.47
1:AA:474:G:OP2	18:AS:75:ARG:NH1	2.47	0.47
1:AA:545:C:OP2	6:AG:62:GLN:OE1	2.33	0.47
1:AA:560:U:O4'	1:AA:566:G:N2	2.48	0.47
1:AA:582:U:H3	1:AA:759:A:H62	1.62	0.47
1:AA:696:A:C2'	1:AA:697:U:H5'	2.44	0.47
1:AA:743:U:H2'	1:AA:744:C:H6	1.79	0.47
1:AA:760:G:N3	19:AT:103:GLY:O	2.48	0.47
1:AA:82:U:C2'	1:AA:85:U:H5	2.23	0.47
1:AA:894:G:C6	1:AA:895:G:C5	3.03	0.47
1:AA:897:C:C2	1:AA:903:G:N2	2.82	0.47
1:AA:953:G:C5	1:AA:954:G:C5	3.03	0.47
1:AA:992:U:H6	1:AA:992:U:O5'	1.98	0.47
1:AA:996:A:C2	1:AA:997:U:C6	3.03	0.47
2:AC:32:C:O5'	2:AC:32:C:H6	1.97	0.47
2:AC:49:G:C2'	2:AC:50:U:O5'	2.62	0.47
3:AD:73:A:N3	3:AD:74:C:H5"	2.28	0.47
4:AE:170:GLU:OE2	4:AE:173:ALA:N	2.47	0.47
5:AF:88:ARG:NH2	5:AF:101:LEU:H	2.12	0.47
5:AF:114:PRO:O	5:AF:117:ALA:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:113:SER:HB3	6:AG:116:GLN:CG	2.36	0.47
6:AG:58:LEU:HA	6:AG:206:PHE:CE1	2.49	0.47
7:AH:57:LYS:HG2	7:AH:61:TYR:CE2	2.42	0.47
7:AH:65:ASN:ND2	7:AH:65:ASN:O	2.48	0.47
9:AJ:15:ASP:CG	9:AJ:23:VAL:HG11	2.34	0.47
9:AJ:80:VAL:HG12	9:AJ:81:GLY:N	2.30	0.47
10:AK:26:VAL:HG13	10:AK:27:PRO:CD	2.45	0.47
10:AK:32:LYS:HG2	10:AK:33:GLU:H	1.73	0.47
10:AK:40:ALA:HA	10:AK:45:ILE:HG23	1.95	0.47
11:AL:116:LYS:HB2	11:AL:121:ARG:C	2.34	0.47
11:AL:49:PRO:HD3	11:AL:78:LYS:HG2	1.96	0.47
12:AM:5:ARG:HG2	12:AM:5:ARG:HH11	1.80	0.47
12:AM:82:ILE:HG23	12:AM:86:MET:SD	2.54	0.47
12:AM:9:ARG:O	12:AM:94:VAL:CG1	2.62	0.47
1:AA:716:A:H1'	13:AN:118:GLY:HA2	1.97	0.47
13:AN:18:ARG:N	13:AN:18:ARG:HD3	2.30	0.47
13:AN:57:THR:OG1	13:AN:59:TYR:CB	2.60	0.47
13:AN:62:GLN:O	13:AN:66:LEU:HG	2.15	0.47
13:AN:76:GLY:O	13:AN:77:MET:HG2	2.14	0.47
14:AO:119:LYS:HE3	14:AO:119:LYS:HB2	1.69	0.47
15:AP:97:PRO:C	15:AP:99:ARG:H	2.18	0.47
16:AQ:23:ARG:HH11	16:AQ:28:GLY:C	2.18	0.47
16:AQ:53:LEU:HA	16:AQ:54:PRO:HD2	1.65	0.47
18:AS:52:ASP:OD2	18:AS:54:GLU:N	2.47	0.47
18:AS:75:ARG:NH1	18:AS:75:ARG:HG3	2.29	0.47
19:AT:60:ILE:HD13	19:AT:60:ILE:O	2.15	0.47
20:AU:23:LYS:HD2	20:AU:58:LEU:HD23	1.97	0.47
20:AU:31:LEU:CD2	20:AU:65:ILE:HG13	2.44	0.47
20:AU:83:GLU:OE1	20:AU:83:GLU:HA	2.14	0.47
21:AV:47:HIS:H	21:AV:62:ILE:HG22	1.80	0.47
22:AW:40:ALA:O	22:AW:41:ILE:C	2.52	0.47
48:B1:1:MET:O	48:B1:2:ARG:C	2.52	0.47
49:B2:37:LEU:HD23	49:B2:38:GLU:C	2.35	0.47
50:B3:57:GLU:C	50:B3:61:ARG:CG	2.76	0.47
52:B5:33:LYS:HE3	52:B5:34:LEU:HA	1.97	0.47
53:B6:30:VAL:HG13	53:B6:33:ARG:HH11	1.77	0.47
54:B7:52:LYS:C	54:B7:56:GLU:OE1	2.53	0.47
24:BA:1178:C:C2'	24:BA:1179:C:C6	2.80	0.47
24:BA:1212:G:N7	24:BA:1235:G:C6	2.82	0.47
24:BA:1351:C:C4	24:BA:1381:G:C6	3.03	0.47
24:BA:1398:C:C2	24:BA:1399:C:C5	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1449(A):G:C5	24:BA:1450:C:C5	3.02	0.47
24:BA:1499:C:H2'	24:BA:1499:C:O2	2.14	0.47
24:BA:1519:G:H3'	24:BA:1520:U:C1'	2.43	0.47
24:BA:1620:G:C1'	53:B6:1:MET:N	2.77	0.47
24:BA:1620:G:O2'	24:BA:1621:U:C5'	2.61	0.47
24:BA:184:C:C4	24:BA:213:A:N6	2.83	0.47
24:BA:1857:G:C5	24:BA:1858:G:O6	2.67	0.47
24:BA:1927:A:C6	24:BA:1928:A:C2	3.03	0.47
24:BA:1949:G:C6	24:BA:1950:G:C5	3.02	0.47
24:BA:1954:G:N2	24:BA:1956:U:C2	2.83	0.47
24:BA:1965:C:H5'	24:BA:1966:A:H3'	1.95	0.47
24:BA:1785:A:H5''	24:BA:1982:C:O4'	2.15	0.47
24:BA:1988:C:C2'	24:BA:1989:G:C5'	2.93	0.47
24:BA:2025:C:C4	24:BA:2026:C:N4	2.83	0.47
24:BA:2209:C:O2	27:BD:150:LYS:NZ	2.44	0.47
24:BA:2224:G:C5'	27:BD:262:ARG:NH1	2.78	0.47
24:BA:2321:G:H2'	24:BA:2321:G:N3	2.28	0.47
24:BA:2282:G:N2	24:BA:2425:A:N9	2.63	0.47
24:BA:2446:G:O2'	24:BA:2448:A:H5''	2.14	0.47
24:BA:2514:U:O5'	24:BA:2514:U:H6	1.96	0.47
24:BA:250:G:C6	24:BA:251:A:N6	2.82	0.47
24:BA:2634:G:H2'	24:BA:2635:C:C6	2.49	0.47
24:BA:2698:U:C2	24:BA:2699:C:N4	2.83	0.47
24:BA:2710:C:H3'	24:BA:2711:A:H5''	1.97	0.47
24:BA:2729:G:C5	24:BA:2730:C:C5	3.02	0.47
24:BA:2740:A:N6	24:BA:2764:A:N9	2.62	0.47
24:BA:2841:C:C2	24:BA:2842:G:N7	2.83	0.47
24:BA:2848:G:H22	24:BA:2867:G:C2'	2.27	0.47
24:BA:326:G:O2'	24:BA:327:G:H5'	2.14	0.47
24:BA:427:U:C6	24:BA:427:U:O5'	2.66	0.47
24:BA:460:A:C2'	24:BA:461:C:H6	2.27	0.47
24:BA:545:G:O5'	24:BA:545:G:C8	2.68	0.47
24:BA:556:G:H8	24:BA:556:G:P	2.37	0.47
24:BA:604:G:C2	24:BA:605:C:C4	3.03	0.47
24:BA:641:C:H5	24:BA:642:G:N3	2.12	0.47
24:BA:691:C:N3	24:BA:692:C:C5	2.82	0.47
24:BA:823:G:C4	24:BA:824:A:N7	2.83	0.47
24:BA:842:G:H5''	24:BA:843:G:OP2	2.14	0.47
24:BA:861:A:C5	24:BA:917:A:N6	2.82	0.47
24:BA:899:A:N1	24:BA:900:A:C5	2.83	0.47
24:BA:7:G:C2	24:BA:8:A:C4	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:5:C:C2	25:BB:6:C:C5	3.03	0.47
28:BE:121:ASN:O	28:BE:122:PHE:C	2.53	0.47
28:BE:93:VAL:HG13	28:BE:180:ASN:ND2	2.30	0.47
24:BA:320:A:OP1	29:BF:135:LYS:HE2	2.14	0.47
29:BF:136:THR:O	29:BF:137:LYS:C	2.52	0.47
29:BF:14:PRO:O	29:BF:15:SER:CB	2.60	0.47
24:BA:323:G:O2'	29:BF:170:LEU:HG	2.14	0.47
29:BF:126:VAL:HB	29:BF:197:ASP:CB	2.45	0.47
29:BF:62:ARG:NH2	29:BF:63:LYS:HZ1	2.13	0.47
33:BL:108:ALA:CB	33:BL:123:ALA:HB1	2.32	0.47
24:BA:1098:A:O2'	33:BL:30:HIS:HE1	1.98	0.47
34:BM:27:ALA:HB1	34:BM:106:MET:HE3	1.96	0.47
35:BN:97:ARG:N	35:BN:117:LEU:HD21	2.30	0.47
35:BN:19:ILE:HG22	35:BN:43:VAL:CA	2.37	0.47
35:BN:3:GLN:HG2	35:BN:6:THR:HG21	1.96	0.47
35:BN:63:VAL:HG21	35:BN:82:ASN:HD21	1.74	0.47
36:BO:114:ILE:O	36:BO:114:ILE:CG2	2.47	0.47
36:BO:115:LEU:O	36:BO:116:GLY:C	2.51	0.47
36:BO:122:PRO:O	36:BO:123:LEU:HB2	2.13	0.47
36:BO:111:ARG:CD	36:BO:129:ALA:HB2	2.33	0.47
36:BO:13:ASN:ND2	36:BO:14:LYS:HG3	2.29	0.47
36:BO:7:ARG:N	36:BO:7:ARG:CD	2.68	0.47
37:BP:24:GLY:C	37:BP:26:TYR:CE2	2.88	0.47
37:BP:64:ILE:HA	37:BP:106:VAL:O	2.15	0.47
37:BP:75:THR:C	37:BP:77:LYS:H	2.10	0.47
38:BQ:115:GLU:O	38:BQ:116:LEU:C	2.52	0.47
38:BQ:20:LEU:HD21	38:BQ:24:GLN:CD	2.35	0.47
38:BQ:52:ILE:O	38:BQ:56:LYS:CG	2.63	0.47
38:BQ:67:LEU:C	38:BQ:67:LEU:HD13	2.35	0.47
39:BR:33:LYS:CG	39:BR:54:LEU:HD21	2.44	0.47
40:BS:19:LEU:CD1	40:BS:85:LYS:NZ	2.78	0.47
40:BS:17:THR:CG2	40:BS:22:PHE:CE2	2.98	0.47
41:BT:45:TYR:O	41:BT:46:ALA:C	2.53	0.47
41:BT:49:HIS:HA	41:BT:52:ARG:NH2	2.30	0.47
41:BT:55:ARG:HA	41:BT:58:ARG:CG	2.45	0.47
42:BU:15:GLU:CB	42:BU:16:PRO:CD	2.92	0.47
43:BV:15:ARG:HB2	43:BV:16:LYS:CD	2.36	0.47
43:BV:33:ARG:NH2	43:BV:33:ARG:HB3	2.30	0.47
45:BX:81:LYS:NZ	45:BX:96:ILE:HG12	2.29	0.47
47:BZ:21:LEU:CD1	47:BZ:41:ARG:HG2	2.39	0.47
47:BZ:48:GLY:HA3	47:BZ:80:HIS:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1089:G:H2'	1:AA:1090:U:H5'	1.95	0.47
1:AA:1228:C:O3'	15:AP:116:THR:HG22	2.14	0.47
1:AA:1233:G:N2	1:AA:1234:C:C2	2.83	0.47
1:AA:1276:G:O2'	1:AA:1277:C:H5'	2.15	0.47
1:AA:1401:G:C6	1:AA:1504:G:N2	2.82	0.47
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.50	0.47
1:AA:1440:C:H2'	1:AA:1441:G:O4'	2.15	0.47
1:AA:1446:A:O2'	1:AA:1447:G:O5'	2.32	0.47
1:AA:1511:G:C8	1:AA:1512:U:C5	3.02	0.47
1:AA:1528:U:C1'	1:AA:1529:G:H21	2.28	0.47
1:AA:281:G:O2'	1:AA:282:A:O4'	2.33	0.47
1:AA:390:C:C2	1:AA:391:G:N7	2.83	0.47
1:AA:451:A:H2	1:AA:480:U:C5	2.33	0.47
1:AA:568:G:C4	1:AA:569:C:C5	3.03	0.47
1:AA:59:A:H4'	1:AA:388:G:O5'	2.15	0.47
1:AA:686:U:O4	1:AA:703:G:O2'	2.25	0.47
1:AA:68:G:C6	1:AA:102:G:N1	2.83	0.47
1:AA:812:C:O4'	1:AA:813:U:C5	2.68	0.47
1:AA:878:G:P	10:AK:88:LYS:CD	3.03	0.47
1:AA:87:A:C2'	1:AA:88:C:H5'	2.44	0.47
1:AA:907:A:N3	1:AA:908:A:C8	2.83	0.47
1:AA:910:C:O2'	1:AA:911:U:H5'	2.15	0.47
1:AA:995:C:H6	1:AA:995:C:OP2	1.96	0.47
2:AC:27:U:C2	2:AC:28:C:C5	3.03	0.47
3:AD:29:C:C2'	3:AD:30:G:O5'	2.63	0.47
4:AE:133:LYS:HE2	4:AE:133:LYS:HA	1.96	0.47
4:AE:145:LEU:O	4:AE:149:LEU:HB3	2.13	0.47
4:AE:167:PRO:CG	4:AE:168:THR:H	2.23	0.47
4:AE:92:TYR:C	4:AE:92:TYR:CD2	2.88	0.47
6:AG:102:ASP:HB3	6:AG:136:PRO:O	2.15	0.47
6:AG:146:ILE:CD1	6:AG:146:ILE:O	2.63	0.47
6:AG:34:GLU:OE1	6:AG:35:ARG:N	2.37	0.47
6:AG:78:LEU:HD13	6:AG:93:PHE:CE2	2.50	0.47
1:AA:9:G:C5'	7:AH:126:ARG:HD3	2.42	0.47
7:AH:69:VAL:HG22	7:AH:139:LEU:HD22	1.96	0.47
7:AH:78:HIS:HB3	10:AK:107:LEU:CD2	2.42	0.47
7:AH:91:LEU:HG	7:AH:92:LYS:N	2.29	0.47
8:AI:12:PRO:CG	8:AI:13:ASN:H	2.27	0.47
8:AI:22:GLU:O	8:AI:25:ILE:HB	2.15	0.47
9:AJ:102:ARG:HE	9:AJ:102:ARG:HB2	1.30	0.47
9:AJ:14:PRO:HB3	9:AJ:20:ASP:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:26:PHE:CZ	9:AJ:30:ILE:HG12	2.50	0.47
9:AJ:31:MET:SD	9:AJ:36:LYS:NZ	2.88	0.47
10:AK:122:ARG:HD2	10:AK:123:GLU:H	1.78	0.47
10:AK:10:LEU:HD11	10:AK:85:ARG:CG	2.45	0.47
11:AL:15:ALA:HB2	11:AL:76:ALA:HB3	1.95	0.47
11:AL:28:VAL:C	11:AL:30:GLY:N	2.66	0.47
11:AL:2:GLU:O	11:AL:3:GLN:HB2	2.14	0.47
11:AL:15:ALA:HB3	11:AL:77:ILE:N	2.28	0.47
12:AM:70:ARG:HA	12:AM:70:ARG:HD3	1.48	0.47
14:AO:48:PRO:CG	14:AO:49:ASN:H	2.26	0.47
14:AO:90:VAL:HB	14:AO:93:LEU:HG	1.96	0.47
15:AP:94:ARG:HD3	15:AP:94:ARG:HA	1.52	0.47
17:AR:57:LEU:O	17:AR:60:VAL:N	2.48	0.47
1:AA:760:G:H2'	19:AT:103:GLY:O	2.15	0.47
22:AW:57:ARG:O	22:AW:60:GLU:N	2.48	0.47
49:B2:9:VAL:N	49:B2:54:VAL:HG23	2.30	0.47
52:B5:12:GLU:HG3	52:B5:53:LYS:O	2.15	0.47
54:B7:29:LYS:C	54:B7:34:TRP:HZ2	2.18	0.47
54:B7:31:HIS:CA	54:B7:34:TRP:HE1	2.25	0.47
54:B7:26:LYS:HB2	54:B7:44:LYS:CE	2.45	0.47
55:B8:19:ARG:CB	55:B8:19:ARG:CZ	2.93	0.47
24:BA:1031:G:H2'	24:BA:1032:A:O5'	2.14	0.47
24:BA:1063:G:O6	24:BA:1069:A:H2'	2.14	0.47
24:BA:1072:C:N3	24:BA:1092:C:C4	2.83	0.47
24:BA:110:G:C6	24:BA:111:A:C5	3.02	0.47
24:BA:1288:U:O2	24:BA:1327:C:N3	2.48	0.47
24:BA:1342:A:N9	24:BA:1345:C:N4	2.63	0.47
24:BA:136:G:N2	24:BA:144:C:N3	2.63	0.47
24:BA:1529:A:H2'	24:BA:1530:G:O4'	2.15	0.47
24:BA:1652:A:H3'	24:BA:1653:G:O4'	2.14	0.47
24:BA:1678:G:O5'	24:BA:1678:G:C8	2.68	0.47
24:BA:1695:G:C2	24:BA:1696:G:O4'	2.68	0.47
24:BA:15:G:H2'	24:BA:16:G:C8	2.50	0.47
24:BA:1712:C:H3'	24:BA:1716:U:C5	2.49	0.47
24:BA:1728:G:H22	24:BA:1730:U:H1'	1.79	0.47
24:BA:1871:A:O2'	24:BA:1872:A:C5'	2.63	0.47
24:BA:2041:U:O2'	24:BA:2042:A:C5'	2.63	0.47
24:BA:2215:G:C2	24:BA:2216:G:N7	2.83	0.47
24:BA:2390:U:O2'	24:BA:2391:G:C5'	2.54	0.47
24:BA:2425:A:O2'	24:BA:2426:A:P	2.72	0.47
24:BA:2459:A:H2	24:BA:2492:U:O4	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2561:A:H2'	24:BA:2562:U:O4'	2.15	0.47
24:BA:2074:U:C2'	24:BA:2597:G:N2	2.66	0.47
24:BA:2708:G:H2'	24:BA:2709:G:C8	2.49	0.47
24:BA:270(J):G:C5	24:BA:270(K):C:C4	3.03	0.47
24:BA:2773:C:OP1	28:BE:164:ARG:NH2	2.48	0.47
24:BA:2781:A:N1	24:BA:2782:G:N2	2.62	0.47
24:BA:2816:C:C2'	24:BA:2817:G:O5'	2.63	0.47
24:BA:2825:C:N3	24:BA:2826:A:C5	2.83	0.47
24:BA:312:G:H2'	24:BA:313:C:C6	2.50	0.47
24:BA:531:C:C2	24:BA:532:A:H1'	2.50	0.47
24:BA:609:A:N6	24:BA:609(A):G:O6	2.48	0.47
24:BA:627:A:N7	24:BA:637:A:C8	2.83	0.47
24:BA:637:A:H2	24:BA:651:G:C5'	2.27	0.47
24:BA:684:G:H1'	24:BA:687:C:N4	2.30	0.47
24:BA:800:A:O2'	24:BA:801:G:P	2.72	0.47
24:BA:838:C:O2'	24:BA:839:U:C5'	2.62	0.47
24:BA:880:G:C5	24:BA:881:G:H1'	2.50	0.47
24:BA:89:G:C5	24:BA:90:U:H5	2.33	0.47
24:BA:942:G:C6	24:BA:943:U:O4	2.68	0.47
25:BB:37:C:N3	25:BB:49:C:O4'	2.48	0.47
25:BB:71:C:C2	25:BB:72:G:O4'	2.68	0.47
27:BD:97:TYR:CB	27:BD:101:GLU:O	2.63	0.47
27:BD:139:GLY:H	27:BD:165:ILE:CB	2.22	0.47
27:BD:136:ILE:CG2	27:BD:165:ILE:HG21	2.44	0.47
27:BD:177:LEU:HD12	27:BD:180:GLY:H	1.80	0.47
27:BD:224:ALA:HB2	27:BD:233:HIS:CD2	2.50	0.47
27:BD:37:LEU:HD12	27:BD:38:LYS:H	1.77	0.47
24:BA:1818:U:OP1	27:BD:88:ARG:CD	2.62	0.47
24:BA:2618:G:H21	28:BE:150:VAL:HG11	1.80	0.47
24:BA:2620:C:C4'	28:BE:156:MET:HB3	2.42	0.47
28:BE:15:PHE:C	28:BE:17:ASP:N	2.68	0.47
29:BF:9:ILE:HA	29:BF:10:PRO:HD3	1.49	0.47
29:BF:130:ALA:CB	29:BF:142:TRP:CE3	2.95	0.47
24:BA:450:G:H5''	29:BF:52:LYS:HD3	1.95	0.47
29:BF:64:ILE:HD13	29:BF:64:ILE:C	2.33	0.47
30:BG:63:ILE:HG13	30:BG:102:PHE:CZ	2.47	0.47
30:BG:146:TYR:C	30:BG:147:ASP:OD2	2.53	0.47
30:BG:148:MET:SD	30:BG:151:ALA:CB	2.93	0.47
30:BG:2:PRO:HA	30:BG:5:VAL:CB	2.44	0.47
31:BH:118:PRO:N	31:BH:121:ILE:HG21	2.30	0.47
31:BH:148:ILE:O	31:BH:151:ILE:CG2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:7:LEU:HB2	31:BH:51:ARG:HD3	1.97	0.47
31:BH:87:LEU:O	31:BH:131:VAL:C	2.52	0.47
32:BK:7:GLU:CA	32:BK:14:ASP:CG	2.68	0.47
35:BN:24:VAL:HG22	35:BN:30:ALA:HA	1.97	0.47
35:BN:22:ILE:CG1	35:BN:40:VAL:HG13	2.45	0.47
35:BN:7:TYR:HD1	35:BN:7:TYR:N	1.85	0.47
36:BO:114:ILE:HG12	36:BO:130:PHE:CD2	2.49	0.47
36:BO:137:LYS:CA	36:BO:140:ALA:HB3	2.44	0.47
36:BO:45:LEU:O	36:BO:46:LYS:HE3	2.15	0.47
37:BP:122:GLY:O	37:BP:125:LEU:HB2	2.14	0.47
37:BP:27:VAL:HG22	37:BP:28:ALA:H	1.80	0.47
38:BQ:16:HIS:O	38:BQ:19:ALA:CB	2.57	0.47
38:BQ:3:HIS:C	38:BQ:4:LEU:HG	2.24	0.47
39:BR:17:ARG:CA	39:BR:20:ARG:HG2	2.44	0.47
39:BR:15:ARG:O	39:BR:18:ILE:HB	2.14	0.47
39:BR:41:ASP:OD2	39:BR:46:VAL:HG23	2.15	0.47
39:BR:71:ARG:CB	39:BR:104:GLY:HA2	2.44	0.47
39:BR:6:ALA:CA	39:BR:9:ARG:HB3	2.45	0.47
41:BT:54:LYS:O	41:BT:55:ARG:C	2.53	0.47
41:BT:94:ASN:OD1	42:BU:13:ARG:HG2	2.14	0.47
42:BU:15:GLU:O	42:BU:100:ARG:NH2	2.37	0.47
42:BU:36:PRO:CB	42:BU:61:VAL:HG22	2.43	0.47
43:BV:105:VAL:CG1	43:BV:105:VAL:O	2.62	0.47
43:BV:13:SER:O	43:BV:17:VAL:CG2	2.61	0.47
44:BW:61:GLY:CA	44:BW:73:ARG:HD3	2.36	0.47
45:BX:46:LYS:HD3	45:BX:58:GLY:N	2.29	0.47
45:BX:84:ARG:CA	45:BX:84:ARG:HE	2.26	0.47
47:BZ:29:GLN:HG2	47:BZ:30:VAL:N	2.28	0.47
47:BZ:59:LEU:HD23	47:BZ:59:LEU:HA	1.62	0.47
32:BK:114:LEU:CD2	32:BK:130:TYR:HB3	2.44	0.47
32:BK:130:TYR:O	32:BK:138:ILE:O	2.32	0.47
24:BA:2116:G:OP2	24:BA:2116:G:O4'	2.33	0.47
24:BA:2149:G:O2'	24:BA:2150:U:H5'	2.15	0.47
24:BA:2123:G:C6	24:BA:2176:A:C6	3.03	0.47
26:BC:63:SER:HG	26:BC:155:GLU:HG2	1.79	0.47
26:BC:22:ILE:HA	26:BC:224:ILE:HD12	1.97	0.47
24:BA:2136:C:H2'	24:BA:2137:C:O4'	2.15	0.47
24:BA:2149:G:H2'	24:BA:2150:U:O5'	2.14	0.47
26:BC:163:PHE:CZ	26:BC:195:ALA:CB	2.92	0.47
24:BA:1575:C:C4	24:BA:1576:U:N3	2.82	0.47
24:BA:1416:G:N2	24:BA:1582:C:N3	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:59:ALA:N	32:BK:62:LYS:NZ	2.63	0.47
1:AA:1002:G:C6	1:AA:1003:G:O6	2.68	0.47
1:AA:1170:A:H3'	1:AA:1170:A:H8	1.77	0.47
1:AA:1170:A:H3'	1:AA:1170:A:C8	2.49	0.47
4:AE:231:GLU:HB2	4:AE:232:PRO:HD2	1.95	0.47
31:BH:110:SER:O	31:BH:112:PRO:CD	2.60	0.47
24:BA:1589:C:C2	24:BA:1590:U:C6	3.02	0.47
24:BA:1040:C:C5	24:BA:1040:C:OP2	2.66	0.47
7:AH:8:GLU:O	7:AH:8:GLU:OE2	2.32	0.47
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.14	0.47
1:AA:1338:G:C2	1:AA:1339:A:C4	3.03	0.47
1:AA:1526:G:O2'	1:AA:1527:C:H5'	2.15	0.47
1:AA:166:G:C2'	1:AA:167:G:O5'	2.63	0.47
1:AA:276:G:H2'	1:AA:277:C:H5'	1.96	0.47
1:AA:37:U:O2	1:AA:548:G:N2	2.48	0.47
1:AA:389:A:N3	1:AA:390:C:H5'	2.30	0.47
1:AA:411:A:C4	1:AA:413:G:H1'	2.50	0.47
1:AA:437:U:HO2'	1:AA:438:G:H5'	1.79	0.47
1:AA:484:G:H8	1:AA:486:U:C2	2.30	0.47
1:AA:506:G:C5	1:AA:507:C:C4	3.02	0.47
1:AA:574:A:C3'	1:AA:575:G:H5''	2.45	0.47
1:AA:579:G:C5'	1:AA:728:A:H1'	2.44	0.47
1:AA:671:G:C2	1:AA:672:U:C2	3.03	0.47
1:AA:859:A:H2'	1:AA:860:A:O5'	2.15	0.47
1:AA:86:U:H2'	1:AA:87:A:H5'	1.96	0.47
1:AA:939:G:H5''	9:AJ:102:ARG:HH22	1.80	0.47
2:AC:14:A:H2'	2:AC:15:G:C8	2.50	0.47
2:AC:29:G:O2'	2:AC:30:G:H5'	2.13	0.47
3:AD:32:C:C5	3:AD:33:U:C5	3.03	0.47
4:AE:100:GLY:O	4:AE:103:THR:O	2.32	0.47
4:AE:167:PRO:HD2	4:AE:188:ALA:HA	1.96	0.47
4:AE:187:LEU:HD22	4:AE:188:ALA:N	2.30	0.47
4:AE:25:ASN:HD21	4:AE:27:LYS:H	1.62	0.47
5:AF:117:ALA:O	5:AF:118:GLN:C	2.53	0.47
5:AF:142:MET:HB3	5:AF:170:GLN:NE2	2.30	0.47
5:AF:8:ILE:HG13	5:AF:16:ARG:HG2	1.96	0.47
1:AA:1205:U:C4'	5:AF:195:VAL:HG13	2.28	0.47
5:AF:39:ILE:HD12	5:AF:57:ILE:HG21	1.96	0.47
1:AA:407:G:H4'	6:AG:115:ARG:HB3	1.97	0.47
8:AI:4:TYR:N	8:AI:4:TYR:HD2	2.12	0.47
9:AJ:148:ASN:HB3	9:AJ:151:TYR:HD1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:90:GLU:O	9:AJ:91:VAL:CB	2.62	0.47
11:AL:69:GLY:O	11:AL:70:LYS:C	2.53	0.47
11:AL:9:ARG:HD2	11:AL:14:VAL:CG1	2.45	0.47
5:AF:23:TYR:CD1	12:AM:11:PHE:N	2.83	0.47
12:AM:81:THR:HG22	12:AM:85:LEU:HD11	1.97	0.47
14:AO:110:VAL:O	14:AO:113:ARG:HB2	2.14	0.47
17:AR:43:LEU:HD12	17:AR:56:LEU:HD23	1.96	0.47
1:AA:468:A:O4'	18:AS:82:GLN:CD	2.53	0.47
19:AT:22:LEU:CD1	19:AT:39:SER:OG	2.62	0.47
19:AT:40:LYS:NZ	19:AT:42:TYR:CE1	2.73	0.47
19:AT:76:LEU:HD23	19:AT:78:GLU:N	2.29	0.47
22:AW:38:LYS:HA	22:AW:41:ILE:HD12	1.97	0.47
51:B4:40:LYS:HE3	51:B4:44:THR:CA	2.44	0.47
52:B5:17:LYS:HD3	52:B5:17:LYS:N	2.22	0.47
53:B6:35:ARG:CB	53:B6:36:GLN:OE1	2.63	0.47
54:B7:55:ALA:O	54:B7:57:ARG:N	2.47	0.47
54:B7:5:LYS:HE3	54:B7:7:HIS:HA	1.97	0.47
24:BA:1007:C:O3'	34:BM:108:PRO:CB	2.62	0.47
24:BA:1009:A:H2'	24:BA:1009:A:N3	2.29	0.47
24:BA:1011:G:C5	24:BA:1013:C:C5	3.03	0.47
24:BA:1000:A:C2	24:BA:1155:A:C4	3.03	0.47
24:BA:1155:A:P	41:BT:58:ARG:NH1	2.85	0.47
24:BA:839:U:H4'	24:BA:1191:G:H21	1.79	0.47
24:BA:1227:A:H2'	24:BA:1228:G:C5'	2.45	0.47
24:BA:564:C:O2'	24:BA:1252:G:O6	2.27	0.47
24:BA:1376:C:H2'	24:BA:1377:G:C8	2.50	0.47
24:BA:1476:C:C6	24:BA:1477:A:N7	2.82	0.47
24:BA:1529:A:C8	24:BA:1530:G:C4	3.02	0.47
24:BA:1546:C:H4'	24:BA:1547:C:C5	2.36	0.47
24:BA:1793:C:H42	24:BA:1825:A:N6	2.10	0.47
24:BA:1908:C:O2'	24:BA:1909:C:C5'	2.63	0.47
24:BA:1916:A:N3	24:BA:1916:A:C3'	2.65	0.47
24:BA:2052:G:C5	24:BA:2053:G:N7	2.82	0.47
24:BA:2199:A:OP2	24:BA:2205:C:H5	1.97	0.47
24:BA:2230:G:O2'	24:BA:2231:C:H5'	2.14	0.47
24:BA:222:A:C8	24:BA:224:G:C8	3.03	0.47
24:BA:2284:C:OP2	52:B5:7:ILE:HG21	2.14	0.47
24:BA:2310:A:C8	24:BA:2310:A:O5'	2.68	0.47
24:BA:792:G:C6	24:BA:2440:C:C6	3.03	0.47
24:BA:2472:G:C4	24:BA:2475:C:N3	2.83	0.47
24:BA:2641:G:N1	24:BA:2774:C:C4	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2683:C:C6	24:BA:2684:U:C5	3.02	0.47
24:BA:2696:U:O2'	24:BA:2697:G:H5'	2.14	0.47
24:BA:270(C):C:OP1	24:BA:365:C:C2'	2.63	0.47
24:BA:267:C:H5''	24:BA:271(A):C:N4	2.30	0.47
24:BA:2876:G:C2	24:BA:2877:G:N7	2.83	0.47
24:BA:2899:G:C2'	24:BA:2900:A:O5'	2.63	0.47
24:BA:306:U:H3'	24:BA:306:U:H6	1.79	0.47
24:BA:382:G:C2'	24:BA:383:U:H5'	2.44	0.47
24:BA:435:C:HO2'	24:BA:436:C:P	2.37	0.47
24:BA:472:A:C2'	24:BA:473:G:H5'	2.34	0.47
24:BA:487:C:C6	24:BA:487:C:H3'	2.49	0.47
24:BA:475:U:H1'	24:BA:509:C:C2	2.50	0.47
24:BA:563:G:H2'	24:BA:563:G:N3	2.30	0.47
24:BA:574:C:O2'	24:BA:575:A:P	2.71	0.47
24:BA:5:A:O2'	24:BA:6:A:H5'	2.15	0.47
24:BA:703:U:C3'	24:BA:704:G:O4'	2.62	0.47
24:BA:703:U:H5''	24:BA:704:G:OP2	2.15	0.47
24:BA:728:G:O2'	24:BA:729:G:H8	1.97	0.47
24:BA:728:G:O2'	24:BA:729:G:O4'	2.33	0.47
24:BA:732:C:H3'	24:BA:733:G:C8	2.49	0.47
24:BA:930:U:O2'	24:BA:931:G:OP2	2.33	0.47
24:BA:87:C:N4	24:BA:96:G:C6	2.83	0.47
25:BB:28:C:O2	25:BB:29:A:N7	2.48	0.47
25:BB:51:G:OP1	39:BR:60:GLY:C	2.53	0.47
25:BB:73:A:C2	25:BB:74:U:C6	3.03	0.47
27:BD:117:VAL:CG1	27:BD:129:ASN:N	2.77	0.47
27:BD:183:ARG:HG2	27:BD:184:LYS:N	2.27	0.47
27:BD:208:LYS:NZ	27:BD:211:ARG:HE	2.06	0.47
27:BD:24:ILE:HG21	27:BD:26:LYS:HG2	1.95	0.47
28:BE:148:GLY:C	28:BE:149:ARG:HG3	2.35	0.47
28:BE:169:ASN:C	28:BE:169:ASN:ND2	2.68	0.47
28:BE:51:PHE:C	28:BE:52:LEU:HD23	2.35	0.47
28:BE:51:PHE:O	28:BE:52:LEU:HB3	2.15	0.47
30:BG:99:MET:O	30:BG:100:TRP:C	2.53	0.47
30:BG:104:GLU:O	30:BG:109:VAL:HG13	2.15	0.47
30:BG:128:ARG:HH12	30:BG:161:THR:C	2.18	0.47
30:BG:29:TRP:C	30:BG:31:VAL:HG23	2.35	0.47
30:BG:53:LEU:CD2	30:BG:71:THR:N	2.77	0.47
31:BH:148:ILE:HG13	31:BH:162:ILE:CD1	2.44	0.47
31:BH:23:ARG:HA	31:BH:37:VAL:CG1	2.39	0.47
24:BA:2749:A:OP1	31:BH:6:ARG:NE	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:77:LYS:HZ3	31:BH:81:GLU:CD	2.18	0.47
32:BK:7:GLU:O	32:BK:14:ASP:N	2.47	0.47
34:BM:17:ASP:O	34:BM:18:ALA:CB	2.62	0.47
35:BN:78:ARG:N	35:BN:78:ARG:NH1	2.63	0.47
35:BN:79:PHE:HB2	40:BS:73:GLU:CG	2.30	0.47
35:BN:85:VAL:HG13	35:BN:86:ILE:O	2.15	0.47
36:BO:122:PRO:HD3	36:BO:141:ALA:HB2	1.97	0.47
36:BO:123:LEU:HG	36:BO:134:ALA:C	2.34	0.47
36:BO:76:LYS:HZ2	36:BO:112:LEU:CD2	2.27	0.47
36:BO:6:LEU:HD23	36:BO:7:ARG:HG3	1.97	0.47
36:BO:78:PRO:HA	36:BO:81:GLN:CG	2.44	0.47
37:BP:128:LYS:C	37:BP:129:THR:HG23	2.35	0.47
39:BR:106:ARG:NH2	39:BR:112:PHE:HD1	2.13	0.47
25:BB:50:G:C5'	39:BR:61:ASN:OD1	2.62	0.47
39:BR:95:HIS:CD2	39:BR:96:GLY:N	2.81	0.47
42:BU:67:GLY:CA	42:BU:94:LEU:HD23	2.44	0.47
24:BA:748:G:OP2	43:BV:89:ALA:HB2	2.14	0.47
45:BX:19:LYS:NZ	45:BX:40:GLU:HB2	2.30	0.47
46:BY:152:ALA:HB3	46:BY:168:GLU:CA	2.44	0.47
25:BB:12:C:C5'	47:BZ:74:ARG:CG	2.80	0.47
32:BK:79:ILE:HD12	32:BK:143:SER:O	2.15	0.47
32:BK:77:LEU:N	32:BK:77:LEU:CD2	2.72	0.47
26:BC:56:GLN:O	26:BC:58:VAL:CG2	2.63	0.47
26:BC:57:ASN:HA	26:BC:165:ASN:HD21	1.80	0.47
26:BC:75:LEU:HD21	26:BC:77:ILE:CG2	2.39	0.47
24:BA:2183:C:C2	24:BA:2184:G:C8	3.02	0.47
24:BA:154:G:N2	24:BA:155:C:C2	2.82	0.47
26:BC:18:LYS:HG2	26:BC:20:TYR:N	2.18	0.47
6:AG:165:MET:HE3	6:AG:166:LYS:CA	2.45	0.47
7:AH:36:ASP:OD1	7:AH:38:GLN:HB2	2.14	0.47
1:AA:1044:A:H2'	1:AA:1045:C:H5'	1.96	0.47
1:AA:1056:U:H5'	5:AF:163:ALA:HB3	1.96	0.47
1:AA:1129:C:C4	1:AA:1139:G:O6	2.67	0.47
1:AA:1132:C:H2'	1:AA:1133:G:O4'	2.14	0.47
1:AA:1124:G:C6	1:AA:1147:C:N4	2.82	0.47
1:AA:1048:G:C4'	1:AA:1215:G:H4'	2.45	0.47
1:AA:1251:A:H2'	1:AA:1252:A:N7	2.27	0.47
1:AA:1259:C:O2'	1:AA:1283:G:N2	2.48	0.47
1:AA:1305:G:H5'	23:AX:4:GLY:CA	2.43	0.47
1:AA:1403:C:C1'	1:AA:1500:A:C2	2.98	0.47
1:AA:247:G:C6	1:AA:248:C:C5	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:254:G:H4'	19:AT:18:THR:HG21	1.96	0.47
1:AA:262:A:C6	1:AA:263:A:N6	2.83	0.47
1:AA:275:G:H5'	19:AT:14:LYS:HG2	1.97	0.47
1:AA:246:A:O4'	1:AA:282:A:N6	2.48	0.47
1:AA:298:A:H3'	1:AA:299:G:C8	2.50	0.47
1:AA:33:A:C2	14:AO:32:PHE:HZ	2.32	0.47
1:AA:458:C:H6	1:AA:458:C:O5'	1.97	0.47
1:AA:477:G:C2	1:AA:478:A:C4	3.02	0.47
1:AA:495:A:N6	6:AG:123:HIS:HE1	2.13	0.47
1:AA:57:G:H2'	1:AA:58:C:C6	2.50	0.47
1:AA:591:U:H6	1:AA:591:U:OP2	1.98	0.47
1:AA:675:A:C3'	1:AA:676:A:H8	2.27	0.47
1:AA:798:G:C6	1:AA:799:G:C8	3.03	0.47
1:AA:7:G:N2	7:AH:121:LYS:CB	2.78	0.47
1:AA:88:C:O2'	1:AA:89:U:C5'	2.63	0.47
2:AC:33:U:O5'	2:AC:33:U:C6	2.65	0.47
2:AC:39:C:H2'	2:AC:40:C:C6	2.50	0.47
4:AE:212:GLN:OE1	4:AE:216:SER:HB2	2.14	0.47
4:AE:33:TYR:CB	4:AE:42:ILE:O	2.63	0.47
5:AF:134:ILE:CD1	5:AF:134:ILE:H	2.28	0.47
5:AF:116:VAL:HG21	5:AF:141:VAL:HG21	1.97	0.47
6:AG:27:TYR:C	6:AG:27:TYR:CD2	2.89	0.47
7:AH:105:VAL:HG12	7:AH:106:PRO:N	2.29	0.47
7:AH:115:VAL:O	7:AH:116:THR:HB	2.15	0.47
7:AH:82:VAL:HG13	7:AH:134:ALA:HB1	1.97	0.47
8:AI:76:ALA:C	8:AI:79:LEU:HG	2.36	0.47
9:AJ:101:LEU:HD23	9:AJ:105:VAL:HG23	1.96	0.47
9:AJ:121:ALA:O	9:AJ:125:MET:CG	2.61	0.47
9:AJ:49:ILE:HG21	9:AJ:121:ALA:CB	2.45	0.47
10:AK:109:ILE:O	10:AK:109:ILE:CG1	2.61	0.47
10:AK:39:LEU:O	10:AK:43:GLY:O	2.32	0.47
10:AK:65:TYR:CD1	10:AK:65:TYR:N	2.83	0.47
11:AL:16:ARG:CD	11:AL:18:PHE:HE1	2.27	0.47
12:AM:39:PRO:O	12:AM:40:LEU:O	2.33	0.47
14:AO:76:ASN:O	14:AO:77:LEU:HG	2.14	0.47
16:AQ:15:LYS:O	16:AQ:16:PHE:CB	2.62	0.47
12:AM:49:VAL:HG21	16:AQ:41:ARG:HB2	1.95	0.47
17:AR:42:HIS:O	17:AR:43:LEU:C	2.53	0.47
18:AS:51:VAL:HG22	18:AS:73:LEU:HD11	1.96	0.47
18:AS:67:THR:CG2	18:AS:68:ASP:N	2.78	0.47
19:AT:4:LYS:CD	19:AT:5:VAL:N	2.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:97:SER:O	19:AT:98:LEU:CD1	2.62	0.47
20:AU:72:ARG:HA	20:AU:75:ILE:HG13	1.96	0.47
22:AW:17:ARG:O	22:AW:20:LEU:HB2	2.14	0.47
48:B1:20:VAL:O	48:B1:24:LYS:HG3	2.15	0.47
51:B4:27:PRO:HB2	51:B4:28:PRO:HD2	1.97	0.47
51:B4:43:HIS:CG	51:B4:43:HIS:O	2.68	0.47
54:B7:3:LYS:CG	54:B7:4:MET:N	2.76	0.47
24:BA:1021:A:C3'	24:BA:1021:A:C8	2.98	0.47
24:BA:1088:A:C2'	24:BA:1089:G:OP1	2.62	0.47
24:BA:1179:C:HO2'	24:BA:1180:C:P	2.38	0.47
24:BA:1327:C:C2'	24:BA:1327:C:O2	2.63	0.47
24:BA:1505:C:N3	24:BA:1506:C:C5	2.83	0.47
24:BA:1518:C:C4	24:BA:1519:G:C8	3.02	0.47
24:BA:1636:C:C2'	24:BA:1636:C:O2	2.52	0.47
24:BA:1731:G:H22	24:BA:1733:G:N2	2.13	0.47
24:BA:1784:A:N3	24:BA:1785:A:N1	2.58	0.47
24:BA:1791:A:O5'	24:BA:1791:A:H8	1.98	0.47
24:BA:1790:C:H5''	24:BA:1828:G:H22	1.80	0.47
24:BA:1843:C:H4'	27:BD:255:LYS:HE3	1.97	0.47
24:BA:1870:C:N4	24:BA:1871:A:C5	2.82	0.47
24:BA:1890:A:H3'	24:BA:1891:G:C8	2.49	0.47
24:BA:1913:A:C2	24:BA:1918:A:C5	3.03	0.47
24:BA:1944:U:C2'	24:BA:1955:U:H1'	2.45	0.47
24:BA:1769:G:C4'	24:BA:1958:C:H5''	2.42	0.47
24:BA:216:A:N6	24:BA:432:A:N9	2.63	0.47
24:BA:2289:G:C2	24:BA:2290:G:C8	3.03	0.47
24:BA:2311:A:OP2	24:BA:2311:A:O4'	2.32	0.47
24:BA:2356:C:N4	24:BA:2357:U:C4	2.83	0.47
24:BA:236:C:N3	24:BA:237:C:C5	2.83	0.47
24:BA:2417:C:H2'	24:BA:2418:A:H8	1.80	0.47
24:BA:2442:C:O2'	24:BA:2443:C:H5'	2.15	0.47
24:BA:2492:U:H2'	24:BA:2493:U:O5'	2.15	0.47
24:BA:2509:G:H2'	24:BA:2510:C:O5'	2.14	0.47
24:BA:2624:G:H3'	24:BA:2625:G:H5''	1.97	0.47
24:BA:2747:G:O2'	24:BA:2748:A:O4'	2.28	0.47
24:BA:2808:U:O2'	24:BA:2810:A:P	2.72	0.47
24:BA:2810:A:H2'	24:BA:2811:G:H5'	1.97	0.47
24:BA:2838:G:N2	24:BA:2881:C:C2	2.83	0.47
24:BA:2889:C:C2'	24:BA:2891:G:H8	2.02	0.47
24:BA:323:G:H5'	24:BA:324:A:P	2.54	0.47
24:BA:364:C:C2'	24:BA:365:C:C5	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(C):C:P	24:BA:365:C:O2'	2.73	0.47
24:BA:387:U:H5''	24:BA:388:G:OP1	2.15	0.47
24:BA:493:G:C2	24:BA:494:G:C8	3.03	0.47
24:BA:563:G:C4	24:BA:2018:G:C2	3.03	0.47
24:BA:627:A:O4'	24:BA:637:A:N6	2.48	0.47
24:BA:678:C:C4	24:BA:679:C:C5	3.03	0.47
24:BA:696:G:C2	24:BA:697:C:C6	3.03	0.47
24:BA:805:G:O2'	24:BA:831:G:H4'	2.15	0.47
24:BA:859:G:O2'	24:BA:2268:A:H2	1.94	0.47
24:BA:951:C:C2'	24:BA:952:G:O5'	2.62	0.47
24:BA:969:U:N3	24:BA:970:C:C5	2.83	0.47
24:BA:95:G:C6	24:BA:96:G:C8	3.02	0.47
27:BD:155:LEU:HD23	27:BD:155:LEU:O	2.15	0.47
27:BD:219:PRO:O	27:BD:220:HIS:ND1	2.47	0.47
27:BD:24:ILE:HG21	27:BD:26:LYS:CG	2.45	0.47
27:BD:61:LEU:C	27:BD:61:LEU:HD23	2.35	0.47
28:BE:99:GLY:N	28:BE:172:VAL:CG2	2.78	0.47
28:BE:66:HIS:ND1	28:BE:67:PHE:CA	2.77	0.47
29:BF:108:LYS:HB2	29:BF:108:LYS:HE3	1.78	0.47
30:BG:5:VAL:O	30:BG:9:ARG:HG3	2.14	0.47
30:BG:36:LYS:HB2	30:BG:95:ARG:CA	2.44	0.47
31:BH:23:ARG:CA	31:BH:37:VAL:HG13	2.42	0.47
31:BH:40:GLU:O	31:BH:41:MET:C	2.52	0.47
31:BH:80:SER:OG	31:BH:81:GLU:N	2.47	0.47
33:BL:104:VAL:HG13	33:BL:127:ILE:CB	2.45	0.47
34:BM:48:MET:C	34:BM:50:ASP:H	2.16	0.47
34:BM:57:ALA:C	34:BM:59:LYS:H	2.18	0.47
34:BM:57:ALA:C	34:BM:60:ILE:HG13	2.35	0.47
35:BN:13:ASN:O	35:BN:14:THR:C	2.52	0.47
36:BO:130:PHE:CE1	36:BO:145:PRO:CB	2.95	0.47
37:BP:54:MET:HB2	37:BP:64:ILE:HD13	1.97	0.47
37:BP:77:LYS:HB2	37:BP:78:PRO:HD3	1.95	0.47
37:BP:6:ARG:O	37:BP:7:MET:CE	2.63	0.47
38:BQ:20:LEU:HD22	38:BQ:24:GLN:HG3	1.91	0.47
39:BR:52:SER:HG	39:BR:69:VAL:HG22	1.80	0.47
39:BR:72:ALA:O	39:BR:73:LEU:C	2.53	0.47
40:BS:53:ARG:HH12	40:BS:103:ARG:N	2.13	0.47
40:BS:82:LEU:HD22	40:BS:84:GLN:N	2.23	0.47
41:BT:54:LYS:CD	41:BT:54:LYS:H	2.28	0.47
41:BT:89:GLU:OE1	42:BU:53:GLU:OE1	2.32	0.47
42:BU:80:GLN:C	42:BU:82:ARG:N	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1266:G:C1'	43:BV:15:ARG:NH2	2.76	0.47
44:BW:66:LEU:HD23	44:BW:71:GLY:N	2.29	0.47
44:BW:84:ALA:CB	44:BW:85:PRO:HD3	2.34	0.47
46:BY:56:VAL:HG11	46:BY:134:PRO:O	2.15	0.47
47:BZ:17:GLN:CA	47:BZ:17:GLN:HE21	2.23	0.47
32:BK:69:LYS:O	32:BK:73:GLU:OE1	2.33	0.47
3:AD:63:G:H2'	3:AD:64:C:C5	2.45	0.47
24:BA:2126:A:O2'	24:BA:2127:G:O5'	2.29	0.47
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.49	0.47
1:AA:1022:G:N2	1:AA:1023:G:N3	2.63	0.47
4:AE:125:PRO:O	4:AE:126:GLU:C	2.53	0.47
1:AA:963:G:H5'	1:AA:1200:C:C4	2.50	0.47
1:AA:984:C:N4	1:AA:1222:G:N2	2.63	0.47
1:AA:1316:G:O6	21:AV:6:LYS:NZ	2.48	0.47
1:AA:1396:A:C4'	1:AA:1397:C:H5''	2.39	0.47
1:AA:1464:G:N3	1:AA:1465:C:C5	2.83	0.47
1:AA:1472:U:H3'	1:AA:1472:U:C6	2.50	0.47
1:AA:1521:G:O2'	1:AA:1522:U:H5'	2.15	0.47
1:AA:241:C:H2'	1:AA:242:C:O5'	2.15	0.47
1:AA:307:C:C4	1:AA:308:C:C5	2.99	0.47
1:AA:109:A:C2	1:AA:327:A:N1	2.83	0.47
1:AA:329:A:N6	1:AA:332:G:N2	2.63	0.47
1:AA:350:G:N1	1:AA:351:G:N1	2.62	0.47
1:AA:556:C:C2'	1:AA:557:G:H5'	2.45	0.47
1:AA:559:A:O2'	1:AA:560:U:OP2	2.30	0.47
1:AA:299:G:N2	1:AA:566:G:C6	2.83	0.47
1:AA:568:G:C2	1:AA:569:C:C5	3.03	0.47
1:AA:624:C:H2'	1:AA:625:G:H8	1.80	0.47
1:AA:629:G:N3	1:AA:630:G:C8	2.83	0.47
1:AA:654:G:C2	1:AA:753:A:C1'	2.94	0.47
1:AA:667:G:O2'	17:AR:49:ASP:HA	2.14	0.47
1:AA:789:U:C6	1:AA:789:U:C3'	2.98	0.47
1:AA:874:G:N2	1:AA:875:C:C2	2.83	0.47
1:AA:900:A:C5	1:AA:901:A:N6	2.79	0.47
1:AA:907:A:C4	1:AA:908:A:N7	2.83	0.47
1:AA:864:A:C2	1:AA:917:G:N2	2.83	0.47
1:AA:956:U:O2	1:AA:960:U:O4	2.33	0.47
2:AC:13:C:H2'	2:AC:14:A:O5'	2.14	0.47
2:AC:48:C:N4	2:AC:59:A:C5	2.83	0.47
4:AE:84:GLU:HB3	4:AE:215:LEU:CD1	2.45	0.47
5:AF:17:ASP:O	5:AF:18:TRP:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:127:THR:C	6:AG:128:VAL:O	2.46	0.47
7:AH:118:ILE:CG2	7:AH:119:LEU:N	2.78	0.47
7:AH:125:SER:C	7:AH:127:ASN:H	2.18	0.47
7:AH:144:THR:O	7:AH:147:ASP:N	2.48	0.47
8:AI:89:MET:HE3	20:AU:75:ILE:CD1	2.36	0.47
8:AI:89:MET:HG2	20:AU:76:LEU:CD2	2.32	0.47
9:AJ:42:ILE:CG2	9:AJ:120:ILE:HD11	2.36	0.47
1:AA:1373:G:OP1	11:AL:42:ARG:CZ	2.63	0.47
13:AN:85:ARG:HH21	13:AN:111:ASP:CG	2.18	0.47
13:AN:88:GLY:N	13:AN:91:ARG:HB2	2.29	0.47
15:AP:34:LEU:CD2	15:AP:41:PRO:HA	2.45	0.47
15:AP:90:LEU:O	15:AP:93:ARG:CB	2.62	0.47
1:AA:1202:G:N3	16:AQ:42:ILE:CD1	2.77	0.47
18:AS:54:GLU:OE1	18:AS:54:GLU:HA	2.15	0.47
19:AT:87:LYS:O	19:AT:91:ARG:HB3	2.15	0.47
20:AU:27:GLY:O	20:AU:28:GLU:C	2.54	0.47
22:AW:43:LEU:HD12	22:AW:55:ILE:CD1	2.13	0.47
49:B2:31:LEU:CD2	49:B2:31:LEU:C	2.83	0.47
50:B3:13:ARG:O	50:B3:14:ILE:CB	2.59	0.47
50:B3:31:ILE:C	50:B3:32:TYR:CD2	2.88	0.47
52:B5:31:PRO:O	52:B5:32:ASN:ND2	2.33	0.47
52:B5:35:GLU:CB	52:B5:52:VAL:HG22	2.45	0.47
24:BA:2345:G:P	52:B5:39:TYR:HA	2.55	0.47
52:B5:17:LYS:NZ	52:B5:50:ARG:CB	2.76	0.47
53:B6:14:LYS:O	53:B6:15:THR:C	2.51	0.47
54:B7:11:LYS:O	54:B7:13:ARG:N	2.48	0.47
54:B7:54:GLU:N	54:B7:56:GLU:OE2	2.48	0.47
24:BA:1050:A:C2'	24:BA:1051:G:H5'	2.43	0.47
24:BA:1064:C:H2'	24:BA:1065:U:O5'	2.15	0.47
24:BA:1111:A:O2'	24:BA:1112:G:C1'	2.52	0.47
24:BA:1142(A):A:OP2	24:BA:1143:A:H8	1.98	0.47
24:BA:1196:C:H5'	24:BA:1226:G:N1	2.29	0.47
24:BA:1236:G:H2'	24:BA:1237:A:H8	1.79	0.47
24:BA:1281:G:C5	24:BA:1282:U:C5	3.03	0.47
24:BA:1296:G:O2'	24:BA:1297:C:O5'	2.33	0.47
24:BA:1470:G:H3'	24:BA:1470:G:H8	1.80	0.47
24:BA:14:A:N7	24:BA:15:G:C8	2.82	0.47
24:BA:1523:U:H2'	24:BA:1524:G:O4'	2.15	0.47
24:BA:1545(A):A:C8	24:BA:1545(A):A:C3'	2.98	0.47
24:BA:1657:C:C6	24:BA:1657:C:O5'	2.63	0.47
24:BA:1663:C:O2'	24:BA:2686:G:H5''	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1732:A:OP1	24:BA:1733:G:C4	2.68	0.47
24:BA:1820:U:HO2'	24:BA:1821:A:P	2.38	0.47
24:BA:188:G:N1	24:BA:209:C:N4	2.63	0.47
24:BA:1907:G:C6	24:BA:1908:C:C5	3.03	0.47
24:BA:1912:A:H3'	24:BA:1913:A:C5'	2.44	0.47
24:BA:1964:G:C8	24:BA:1964:G:OP1	2.67	0.47
24:BA:199:A:C2	24:BA:2433:A:C4	3.03	0.47
24:BA:200:U:H3'	24:BA:201:C:H5'	1.96	0.47
24:BA:2020:A:OP2	41:BT:27:LEU:CD2	2.62	0.47
24:BA:2210:G:O2'	24:BA:2211:G:OP2	2.33	0.47
24:BA:953:A:H2	24:BA:2273:A:N6	2.13	0.47
24:BA:270(J):G:H2'	24:BA:270(J):G:N3	2.29	0.47
24:BA:2710:C:H2'	24:BA:2711:A:C5'	2.43	0.47
24:BA:272:G:O6	24:BA:273:G:C6	2.68	0.47
24:BA:2742:C:OP1	55:B8:35:ARG:NH1	2.48	0.47
24:BA:2754:U:C6	24:BA:2754:U:C3'	2.98	0.47
24:BA:2804:C:N3	24:BA:2805:G:N1	2.63	0.47
24:BA:2869:G:H2'	24:BA:2870:C:O5'	2.15	0.47
24:BA:330:A:O2'	24:BA:1210:A:C6	2.67	0.47
24:BA:323:G:N3	24:BA:333:G:H1'	2.29	0.47
24:BA:80:G:H4'	24:BA:347:A:N7	2.30	0.47
24:BA:379:G:N2	24:BA:396:G:C4	2.83	0.47
24:BA:510:C:O5'	24:BA:512:G:N1	2.48	0.47
24:BA:539:G:O5'	24:BA:539:G:H8	1.97	0.47
24:BA:576:U:O2	24:BA:577:G:N7	2.46	0.47
24:BA:76:C:H4'	48:B1:54:ARG:HH21	1.80	0.47
24:BA:878:A:H2'	24:BA:879:G:H5''	1.97	0.47
24:BA:882:G:H2'	24:BA:883:G:H8	1.81	0.47
24:BA:88:G:C2'	24:BA:89:G:H5'	2.44	0.47
24:BA:848:G:O6	24:BA:929:G:H2'	2.15	0.47
25:BB:104:A:H1'	46:BY:29:TYR:CZ	2.49	0.47
25:BB:87:G:N1	25:BB:90:C:N4	2.62	0.47
27:BD:42:GLY:CA	27:BD:60:ARG:NH2	2.78	0.47
27:BD:9:TYR:CG	27:BD:25:THR:HG22	2.50	0.47
28:BE:28:ALA:HB3	28:BE:50:GLY:O	2.15	0.47
28:BE:2:LYS:NZ	28:BE:83:ASP:HB3	2.29	0.47
29:BF:112:MET:O	29:BF:115:ALA:HB3	2.15	0.47
29:BF:41:LEU:CD1	29:BF:44:ARG:NH1	2.78	0.47
30:BG:107:LEU:HG	30:BG:177:GLY:HA3	1.97	0.47
30:BG:181:ARG:CZ	30:BG:181:ARG:CA	2.93	0.47
31:BH:23:ARG:HH21	31:BH:36:PRO:HA	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:27:ARG:HG2	32:BK:28:ASN:HD22	1.79	0.47
32:BK:6:LEU:N	32:BK:8:PRO:CD	2.78	0.47
33:BL:19:PRO:CD	33:BL:23:VAL:HB	2.45	0.47
34:BM:108:PRO:O	34:BM:109:LYS:CB	2.62	0.47
34:BM:112:LEU:N	34:BM:112:LEU:HD23	2.29	0.47
34:BM:55:VAL:CG2	34:BM:123:TYR:C	2.75	0.47
35:BN:43:VAL:CG2	35:BN:44:LYS:N	2.77	0.47
24:BA:2415:G:C5'	36:BO:61:ARG:HD2	2.45	0.47
37:BP:137:TYR:C	37:BP:138:ASP:CG	2.70	0.47
37:BP:59:ARG:CZ	37:BP:61:GLY:HA3	2.45	0.47
37:BP:65:PHE:O	37:BP:66:ILE:CD1	2.63	0.47
38:BQ:32:GLY:C	38:BQ:115:GLU:HB2	2.34	0.47
40:BS:103:ARG:NH2	40:BS:103:ARG:CB	2.78	0.47
40:BS:52:ILE:N	40:BS:66:VAL:CG1	2.77	0.47
40:BS:45:PHE:HE1	40:BS:86:ILE:HG21	1.80	0.47
41:BT:34:LYS:HE2	41:BT:37:GLU:CD	2.35	0.47
45:BX:32:PRO:HB2	45:BX:34:LYS:HE3	1.95	0.47
24:BA:857:C:H5'	47:BZ:44:ARG:HH22	1.81	0.47
3:AD:18:G:H21	3:AD:58:A:C5'	2.27	0.47
24:BA:2114:A:H2'	24:BA:2115:G:C5'	2.44	0.47
24:BA:2140:C:C2	24:BA:2152:G:N2	2.83	0.47
24:BA:2177:C:H4'	26:BC:213:TYR:CD1	2.50	0.47
26:BC:186:ALA:HB1	26:BC:190:ARG:HH22	1.80	0.47
24:BA:2177:C:O3'	26:BC:213:TYR:CE1	2.68	0.47
27:BD:273:ARG:CG	27:BD:273:ARG:NH1	2.71	0.47
1:AA:164:U:O2'	1:AA:165:C:C6	2.58	0.47
4:AE:134:GLU:OE1	4:AE:134:GLU:HA	2.14	0.47
4:AE:123:ALA:O	4:AE:124:SER:O	2.33	0.47
40:BS:41:ARG:HE	40:BS:41:ARG:H	1.61	0.47
1:AA:1030:C:H2'	1:AA:1031:G:C8	2.49	0.47
33:BL:5:VAL:HG12	33:BL:5:VAL:O	2.15	0.47
15:AP:71:ARG:O	15:AP:72:ALA:C	2.52	0.47
1:AA:102:G:H2'	1:AA:103:C:O4'	2.15	0.46
1:AA:1043:C:C4	1:AA:1044:A:C8	3.03	0.46
1:AA:1043:C:O2'	1:AA:1044:A:H5'	2.15	0.46
1:AA:1068:G:N7	1:AA:1094:G:N7	2.62	0.46
1:AA:1075:C:O2	1:AA:1075:C:C2'	2.60	0.46
1:AA:115:G:H1'	1:AA:116:A:N7	2.30	0.46
1:AA:1284:C:C2	1:AA:1285:A:N7	2.83	0.46
1:AA:1301:U:N3	1:AA:1303:C:H1'	2.29	0.46
1:AA:130:A:C2	1:AA:264:U:O4'	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1319:A:OP1	21:AV:70:LYS:CE	2.64	0.46
1:AA:1323:G:N3	1:AA:1324:A:N7	2.63	0.46
1:AA:1424:C:H2'	1:AA:1425:U:O5'	2.15	0.46
1:AA:1455:G:OP1	22:AW:32:ALA:HA	2.15	0.46
1:AA:1506:U:C5'	1:AA:1507:A:OP2	2.54	0.46
1:AA:194:C:O2'	1:AA:195:A:H4'	2.14	0.46
1:AA:220:G:C6	1:AA:221:C:C5	3.04	0.46
1:AA:233:C:C2'	1:AA:234:C:H5'	2.44	0.46
1:AA:275:G:C4	1:AA:276:G:C8	3.03	0.46
1:AA:253:U:H5'	1:AA:276:G:H1'	1.97	0.46
1:AA:278:G:C6	19:AT:95:TYR:HD2	2.31	0.46
1:AA:33:A:C6	1:AA:34:C:C4	3.03	0.46
1:AA:557:G:C6	1:AA:558:G:N1	2.83	0.46
1:AA:578:C:H2'	1:AA:728:A:N3	2.29	0.46
1:AA:675:A:H3'	1:AA:676:A:H8	1.80	0.46
1:AA:909:A:O5'	1:AA:909:A:C8	2.68	0.46
1:AA:90:C:C2	1:AA:91:C:C5	3.04	0.46
1:AA:921:U:C2	1:AA:922:G:C8	3.04	0.46
1:AA:977:A:C6	1:AA:1224:G:OP1	2.68	0.46
1:AA:983:A:H2	1:AA:984:C:C6	2.24	0.46
3:AD:37:A:O2'	3:AD:38:A:H5'	2.15	0.46
4:AE:97:TRP:CZ2	4:AE:176:GLU:OE1	2.67	0.46
4:AE:28:PHE:HB3	4:AE:32:ILE:HD13	1.96	0.46
4:AE:61:LEU:CA	4:AE:64:ARG:HH11	2.24	0.46
5:AF:178:LEU:O	5:AF:179:ARG:HB3	2.15	0.46
6:AG:108:LEU:HD11	6:AG:183:GLY:HA3	1.96	0.46
6:AG:120:LEU:CD1	6:AG:121:VAL:N	2.77	0.46
6:AG:158:ILE:CG2	6:AG:162:LEU:HD21	2.45	0.46
6:AG:94:LEU:CD1	6:AG:200:GLU:OE1	2.63	0.46
6:AG:82:ALA:HB1	6:AG:89:THR:O	2.15	0.46
7:AH:80:ILE:CG2	10:AK:104:ARG:NH2	2.78	0.46
8:AI:60:PHE:CD1	8:AI:60:PHE:N	2.83	0.46
9:AJ:61:VAL:O	9:AJ:128:ALA:HB2	2.15	0.46
9:AJ:20:ASP:CB	9:AJ:23:VAL:HG23	2.43	0.46
9:AJ:83:ALA:CB	9:AJ:85:TYR:HE2	2.28	0.46
12:AM:45:ARG:HG2	12:AM:65:LEU:O	2.14	0.46
12:AM:78:ASN:O	12:AM:80:LYS:N	2.48	0.46
13:AN:27:ASN:H	13:AN:56:GLY:CA	2.28	0.46
14:AO:90:VAL:HG12	14:AO:93:LEU:HD21	1.96	0.46
15:AP:52:GLU:HA	15:AP:55:ARG:HG3	1.96	0.46
15:AP:80:ARG:NH1	15:AP:81:LEU:N	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:48:ALA:CA	16:AQ:53:LEU:HD12	2.45	0.46
17:AR:34:LEU:HD12	17:AR:35:ARG:N	2.30	0.46
17:AR:67:LEU:O	17:AR:68:ARG:C	2.52	0.46
19:AT:16:GLN:O	19:AT:17:LYS:HB2	2.15	0.46
19:AT:75:ARG:NH1	19:AT:77:VAL:HG22	2.29	0.46
21:AV:45:VAL:HG13	21:AV:64:GLU:HA	1.96	0.46
22:AW:54:LYS:N	22:AW:100:ILE:HD11	2.30	0.46
48:B1:21:ARG:O	48:B1:22:GLU:C	2.53	0.46
48:B1:47:ASP:OD2	48:B1:47:ASP:N	2.47	0.46
50:B3:56:VAL:HB	50:B3:61:ARG:HE	1.79	0.46
50:B3:5:ILE:HG13	50:B3:9:LEU:C	2.35	0.46
51:B4:39:MET:SD	51:B4:40:LYS:CA	3.03	0.46
24:BA:1613:G:P	53:B6:5:TRP:HD1	2.36	0.46
24:BA:1011:G:C5	24:BA:1013:C:C6	3.03	0.46
24:BA:1064:C:N3	24:BA:1075:C:N4	2.62	0.46
24:BA:1109:C:N3	24:BA:1110:G:N2	2.63	0.46
24:BA:1266:G:N7	43:BV:16:LYS:HD2	2.31	0.46
24:BA:1302:A:C4'	24:BA:1302:A:OP1	2.63	0.46
24:BA:1313:U:H2'	24:BA:1314:C:C6	2.50	0.46
24:BA:1364:G:C6	24:BA:1368:G:C6	3.03	0.46
24:BA:1342:A:C4	24:BA:1397:U:H1'	2.50	0.46
24:BA:1467:C:C2'	24:BA:1468:C:O5'	2.64	0.46
24:BA:1507:A:OP1	24:BA:1508:A:C2	2.68	0.46
24:BA:1553:A:HO2'	24:BA:1554:A:P	2.38	0.46
24:BA:1434:A:C5	24:BA:1560:G:N2	2.83	0.46
24:BA:1427:A:C2	24:BA:1570:A:OP1	2.68	0.46
24:BA:1663:C:H3'	24:BA:1664:A:N3	2.30	0.46
24:BA:1704:G:C2'	24:BA:1705:G:O5'	2.63	0.46
24:BA:1791:A:C2'	24:BA:1792:G:O5'	2.63	0.46
24:BA:1363:C:C4'	24:BA:1809:A:N7	2.71	0.46
24:BA:1947:C:C2	24:BA:1948:G:C8	3.03	0.46
24:BA:1987:G:C2	24:BA:1988:C:C4	3.03	0.46
24:BA:961:C:N4	24:BA:2031:A:C1'	2.77	0.46
24:BA:2080:G:C2'	24:BA:2081:C:O5'	2.64	0.46
24:BA:2086:U:OP2	27:BD:260:ARG:CZ	2.63	0.46
24:BA:2236:C:H5''	24:BA:2236:C:C6	2.51	0.46
24:BA:2265:U:C3'	24:BA:2265:U:C6	2.97	0.46
24:BA:2305:A:C2'	30:BG:154:GLY:CA	2.93	0.46
24:BA:228:A:N6	24:BA:230:U:C2	2.83	0.46
24:BA:2402:C:H5''	24:BA:2403:C:OP1	2.14	0.46
24:BA:1953:A:C2	24:BA:2560:C:H1'	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2626:C:C2	24:BA:2627:G:C8	3.03	0.46
24:BA:2694:G:H2'	24:BA:2695:C:O5'	2.14	0.46
24:BA:2740:A:C2	24:BA:2741:A:C4	3.04	0.46
24:BA:2692:C:O2'	24:BA:2847:U:O2'	2.31	0.46
24:BA:324:A:H2	24:BA:325:G:C4	2.28	0.46
24:BA:289:A:O2'	24:BA:351:G:N2	2.48	0.46
24:BA:360:G:H2'	24:BA:361:G:O5'	2.14	0.46
24:BA:35:G:N1	24:BA:36:G:C5	2.83	0.46
24:BA:370:G:N2	24:BA:423:A:OP2	2.48	0.46
24:BA:479:A:O2'	24:BA:480:A:C5'	2.63	0.46
24:BA:592:G:H3'	24:BA:593:G:O4'	2.16	0.46
24:BA:599:G:C2	24:BA:600:G:N7	2.83	0.46
24:BA:607:U:C2	24:BA:608:A:H8	2.33	0.46
24:BA:64:A:C2'	24:BA:65:C:C5'	2.91	0.46
24:BA:656:G:C5	24:BA:657:U:C4	3.03	0.46
24:BA:668:G:C6	24:BA:670:A:C5	3.03	0.46
24:BA:66:C:C4	24:BA:67:U:O4	2.68	0.46
24:BA:699:A:H2'	24:BA:700:G:C5'	2.34	0.46
24:BA:722:A:N3	24:BA:723:G:C8	2.82	0.46
24:BA:733:G:H8	24:BA:733:G:P	2.38	0.46
24:BA:814:C:C1'	24:BA:1224:G:H22	2.27	0.46
24:BA:825:C:H2'	24:BA:826:U:C6	2.51	0.46
24:BA:833:U:O2	36:BO:48:PRO:HG2	2.16	0.46
24:BA:88:G:H2'	24:BA:89:G:H5'	1.97	0.46
24:BA:922:U:O2'	47:BZ:26:TYR:HD2	1.97	0.46
24:BA:934:G:C6	24:BA:935:C:C4	3.03	0.46
24:BA:954:G:OP1	37:BP:17:LEU:CB	2.59	0.46
24:BA:975:G:H21	24:BA:976:C:H5'	1.79	0.46
25:BB:43:C:N3	25:BB:45:A:C8	2.83	0.46
25:BB:37:C:N4	25:BB:44:G:C2	2.82	0.46
25:BB:49:C:N3	25:BB:50:G:C8	2.83	0.46
25:BB:59:A:N7	25:BB:60:C:C6	2.83	0.46
27:BD:148:GLU:N	27:BD:186:HIS:HE1	2.13	0.46
27:BD:269:PHE:O	27:BD:270:ILE:CG1	2.63	0.46
27:BD:61:LEU:CD1	27:BD:63:ARG:HH22	2.28	0.46
27:BD:69:ARG:HG3	27:BD:69:ARG:NH1	2.27	0.46
28:BE:131:ALA:CB	28:BE:134:ILE:CG1	2.85	0.46
24:BA:2683:C:H5'	28:BE:19:ARG:NH1	2.30	0.46
24:BA:2811:G:C5'	28:BE:60:ASN:HD21	2.25	0.46
28:BE:30:PRO:CG	28:BE:90:THR:CG2	2.90	0.46
28:BE:91:VAL:HG13	28:BE:93:VAL:HG22	1.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:140:LEU:C	29:BF:140:LEU:HD23	2.35	0.46
29:BF:174:VAL:HG21	29:BF:189:THR:HG21	1.97	0.46
30:BG:100:TRP:O	30:BG:101:ILE:C	2.51	0.46
30:BG:39:ILE:HG13	30:BG:157:ILE:CD1	2.45	0.46
30:BG:163:ALA:HB2	30:BG:172:LEU:CD2	2.45	0.46
30:BG:47:LYS:CG	30:BG:73:ALA:HB2	2.19	0.46
30:BG:85:GLY:O	30:BG:86:MET:CB	2.62	0.46
31:BH:87:LEU:HD23	31:BH:163:TYR:O	2.15	0.46
32:BK:15:VAL:HG12	32:BK:15:VAL:O	2.15	0.46
33:BL:10:LEU:HB2	33:BL:12:LEU:HD21	1.97	0.46
33:BL:131:ALA:CB	33:BL:136:VAL:HB	2.45	0.46
33:BL:51:ALA:O	33:BL:52:ILE:CB	2.63	0.46
24:BA:1076:C:C5'	33:BL:93:ARG:HH21	2.27	0.46
34:BM:90:MET:HB3	34:BM:98:VAL:CG2	2.42	0.46
35:BN:120:GLU:C	35:BN:122:LEU:H	2.17	0.46
36:BO:145:PRO:O	36:BO:146:VAL:HG22	2.15	0.46
36:BO:74:GLU:CA	36:BO:107:LYS:HD3	2.46	0.46
36:BO:97:PRO:HB3	36:BO:102:ARG:NH1	2.29	0.46
37:BP:100:GLY:O	37:BP:101:ARG:CD	2.62	0.46
37:BP:124:LYS:O	37:BP:125:LEU:O	2.33	0.46
37:BP:134:ARG:HA	46:BY:81:ARG:HH12	1.80	0.46
37:BP:15:GLY:HA2	37:BP:73:PRO:HG2	1.97	0.46
37:BP:66:ILE:CG2	37:BP:67:ARG:N	2.48	0.46
38:BQ:61:HIS:ND1	38:BQ:64:ARG:NH2	2.63	0.46
24:BA:2839:G:O2'	38:BQ:92:GLY:HA3	2.14	0.46
39:BR:31:SER:CB	39:BR:34:HIS:HB2	2.36	0.46
40:BS:7:ILE:C	40:BS:9:LEU:N	2.67	0.46
41:BT:98:LEU:CB	41:BT:105:VAL:HG11	2.45	0.46
41:BT:58:ARG:CG	41:BT:59:ARG:HG2	2.41	0.46
41:BT:65:ILE:HG22	41:BT:76:TYR:CE1	2.50	0.46
41:BT:86:ALA:O	41:BT:90:VAL:CG2	2.63	0.46
43:BV:3:ALA:HB3	43:BV:107:LEU:CB	2.44	0.46
43:BV:37:ARG:HG3	43:BV:38:TYR:CD1	2.49	0.46
44:BW:20:GLY:HA2	44:BW:23:GLU:HG3	1.96	0.46
45:BX:5:MET:SD	45:BX:33:LYS:HE2	2.55	0.46
45:BX:43:ASN:HD21	45:BX:57:GLN:HB3	1.80	0.46
45:BX:44:ILE:CB	45:BX:46:LYS:HG3	2.44	0.46
46:BY:171:ILE:C	46:BY:171:ILE:HD12	2.33	0.46
47:BZ:20:ARG:HB3	47:BZ:24:LYS:HZ3	1.80	0.46
32:BK:107:VAL:HG12	32:BK:109:ILE:HD13	1.96	0.46
3:AD:62:C:C2	3:AD:63:G:C8	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:26:ALA:HB1	26:BC:185:LEU:CB	2.43	0.46
26:BC:73:ARG:HB3	26:BC:93:TYR:CE2	2.50	0.46
24:BA:1495:A:H2'	24:BA:1496:A:N7	2.29	0.46
24:BA:1574:C:H2'	24:BA:1575:C:O4'	2.15	0.46
1:AA:1005:A:OP2	1:AA:1005:A:C8	2.68	0.46
1:AA:1120:G:H2'	1:AA:1121:U:O5'	2.14	0.46
31:BH:54:ARG:NH1	31:BH:57:ASP:HB2	2.30	0.46
1:AA:1084:G:C4	1:AA:1085:U:H5	2.33	0.46
1:AA:1152:A:C2	1:AA:1153:C:N1	2.83	0.46
1:AA:1283:G:C2'	1:AA:1284:C:H5'	2.45	0.46
1:AA:146:G:C2'	1:AA:147:G:H5'	2.45	0.46
1:AA:10:A:C2	1:AA:25:C:C2	3.03	0.46
1:AA:328:C:O2'	1:AA:329:A:OP2	2.33	0.46
1:AA:388:G:C2'	1:AA:389:A:OP2	2.63	0.46
1:AA:411:A:C5	1:AA:429:U:C4	3.02	0.46
1:AA:445:G:H2'	1:AA:446:G:O4'	2.15	0.46
1:AA:478:A:C6	1:AA:479:C:N4	2.84	0.46
1:AA:495:A:C1'	1:AA:496:A:C8	2.94	0.46
1:AA:531:U:H5''	1:AA:532:A:OP1	2.14	0.46
1:AA:606:G:N2	1:AA:631:G:C4	2.83	0.46
1:AA:654:G:N2	1:AA:753:A:H1'	2.30	0.46
1:AA:862:C:H2'	1:AA:863:U:C6	2.51	0.46
1:AA:926:G:N1	1:AA:1505:G:C6	2.83	0.46
3:AD:76:A:N7	24:BA:2432:A:C2	2.83	0.46
4:AE:156:LYS:HG2	4:AE:156:LYS:O	2.15	0.46
4:AE:168:THR:HG21	4:AE:192:SER:CA	2.45	0.46
4:AE:102:LEU:CB	4:AE:176:GLU:HB3	2.44	0.46
4:AE:65:GLY:O	4:AE:66:GLY:C	2.53	0.46
5:AF:44:GLU:HA	5:AF:52:LEU:HD11	1.97	0.46
6:AG:105:VAL:HG11	6:AG:121:VAL:CG2	2.45	0.46
6:AG:31:CYS:C	6:AG:33:MET:HG2	2.36	0.46
6:AG:52:SER:C	6:AG:54:TYR:N	2.68	0.46
7:AH:109:ILE:CG2	7:AH:110:LEU:CD2	2.91	0.46
7:AH:109:ILE:HG22	7:AH:110:LEU:H	1.79	0.46
7:AH:76:ILE:HG21	7:AH:142:LEU:HB3	1.97	0.46
7:AH:80:ILE:HD12	7:AH:80:ILE:H	1.80	0.46
8:AI:69:GLU:HB2	8:AI:70:ASP:H	1.52	0.46
9:AJ:22:LEU:HD23	9:AJ:63:LYS:HZ3	1.78	0.46
9:AJ:70:LYS:HB3	9:AJ:96:GLN:CG	2.39	0.46
9:AJ:91:VAL:O	9:AJ:92:SER:O	2.33	0.46
9:AJ:99:LEU:O	9:AJ:100:ALA:C	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:112:LYS:HB2	11:AL:117:HIS:O	2.15	0.46
11:AL:2:GLU:C	11:AL:21:PRO:HD2	2.34	0.46
12:AM:54:PHE:O	12:AM:55:LYS:C	2.54	0.46
12:AM:63:PHE:N	12:AM:63:PHE:CD1	2.82	0.46
13:AN:92:GLU:O	13:AN:95:ILE:N	2.48	0.46
15:AP:92:HIS:N	15:AP:98:VAL:HG21	2.31	0.46
21:AV:44:MET:HA	21:AV:47:HIS:HD2	1.80	0.46
22:AW:49:ALA:O	22:AW:52:ALA:HB3	2.16	0.46
51:B4:40:LYS:HZ1	51:B4:44:THR:H	1.62	0.46
52:B5:25:LYS:CG	54:B7:35:GLN:HG3	2.46	0.46
52:B5:32:ASN:ND2	52:B5:33:LYS:N	2.63	0.46
24:BA:1612:C:H1'	53:B6:6:GLN:HE22	1.80	0.46
54:B7:2:PRO:O	54:B7:3:LYS:C	2.53	0.46
54:B7:33:ASN:C	54:B7:34:TRP:CG	2.85	0.46
54:B7:26:LYS:HZ2	54:B7:43:GLN:HA	1.79	0.46
24:BA:1029:A:H62	24:BA:1125:G:N2	2.13	0.46
24:BA:1053:C:H42	24:BA:1105:U:H3	1.62	0.46
24:BA:1060:U:H5''	24:BA:1061:U:C4	2.49	0.46
24:BA:1072:C:C2	24:BA:1092:C:C5	3.03	0.46
24:BA:974:G:H1'	24:BA:1186:G:C5	2.50	0.46
24:BA:974:G:C2	24:BA:1186:G:O6	2.69	0.46
24:BA:118:A:C4	24:BA:177:G:N2	2.83	0.46
24:BA:1263:U:C4	24:BA:1264:G:N2	2.84	0.46
24:BA:1357:U:O4	24:BA:1358:G:N1	2.49	0.46
24:BA:1359:A:C6	24:BA:1360:A:C4	3.02	0.46
24:BA:1520:U:N1	24:BA:1520:U:OP2	2.47	0.46
24:BA:1637:A:C6	24:BA:1638:C:C4	3.04	0.46
24:BA:1653:G:C5'	24:BA:1654:A:OP1	2.62	0.46
24:BA:1681:G:N1	24:BA:1762:A:N7	2.63	0.46
24:BA:1858:G:HO2'	24:BA:1859:A:C5'	2.26	0.46
24:BA:1912:A:C8	24:BA:1913:A:C1'	2.98	0.46
24:BA:1948:G:O2'	24:BA:1949:G:H5'	2.15	0.46
24:BA:197:A:H3'	24:BA:198:C:H6	1.75	0.46
24:BA:2027:G:O2'	24:BA:2028:U:C5'	2.57	0.46
24:BA:2213:U:C2'	24:BA:2213:U:O2	2.63	0.46
24:BA:2309:A:N7	30:BG:80:PHE:CZ	2.83	0.46
24:BA:2481:G:O2'	24:BA:2482:G:C8	2.61	0.46
24:BA:255:A:H3'	24:BA:256:A:H8	1.81	0.46
24:BA:264:C:O2'	24:BA:265:A:C5'	2.63	0.46
24:BA:2698:U:C2	24:BA:2699:C:C4	3.03	0.46
24:BA:2782:G:P	24:BA:2782:G:O4'	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2786:U:H2'	24:BA:2787:C:C6	2.48	0.46
24:BA:2631:G:O2'	24:BA:2810:A:N1	2.41	0.46
24:BA:2863:C:C2	24:BA:2864:G:C8	3.04	0.46
24:BA:2886:G:N2	24:BA:2887:U:N1	2.64	0.46
24:BA:319:C:C2	24:BA:333:G:N2	2.84	0.46
24:BA:37:C:O2'	29:BF:50:SER:HA	2.16	0.46
24:BA:383:U:H2'	24:BA:385:C:H41	1.80	0.46
24:BA:387:U:O5'	50:B3:29:PRO:HB3	2.15	0.46
24:BA:464:U:C4'	53:B6:12:ARG:NH2	2.69	0.46
24:BA:464:U:C4	24:BA:465:G:O6	2.69	0.46
24:BA:463:G:C2	24:BA:467:G:C6	3.04	0.46
24:BA:49:A:P	24:BA:50:U:H5	2.38	0.46
24:BA:515:A:C4'	24:BA:515:A:C8	2.98	0.46
24:BA:60:G:C2	24:BA:68:G:C2	3.03	0.46
24:BA:611:C:N4	24:BA:618:G:H1	2.13	0.46
24:BA:70:G:OP1	24:BA:112:U:O4	2.33	0.46
24:BA:722:A:C2	24:BA:723:G:C4	3.03	0.46
24:BA:746:A:H2'	24:BA:2611:U:HO2'	1.80	0.46
24:BA:728:G:C4	24:BA:763:G:OP2	2.68	0.46
24:BA:684:G:HO2'	24:BA:788:A:N6	2.11	0.46
24:BA:888:C:H4'	24:BA:889:C:O2	2.15	0.46
24:BA:905:U:N3	24:BA:906:G:C8	2.83	0.46
24:BA:97:C:C2	24:BA:98:G:C8	3.03	0.46
25:BB:40:U:H1'	25:BB:45:A:H62	1.79	0.46
27:BD:116:GLN:O	27:BD:117:VAL:HG23	2.15	0.46
27:BD:183:ARG:CG	27:BD:184:LYS:N	2.78	0.46
27:BD:186:HIS:HB2	27:BD:188:GLU:OE1	2.16	0.46
27:BD:209:ALA:O	27:BD:213:ARG:HG2	2.15	0.46
27:BD:226:MET:CE	27:BD:235:GLY:HA2	2.45	0.46
27:BD:93:ALA:HB2	27:BD:107:ALA:HA	1.96	0.46
24:BA:2571:C:H2'	28:BE:146:THR:OG1	2.15	0.46
28:BE:14:ILE:HA	28:BE:19:ARG:CB	2.30	0.46
28:BE:152:LYS:O	28:BE:152:LYS:HD2	2.15	0.46
28:BE:175:VAL:O	28:BE:175:VAL:CG2	2.63	0.46
28:BE:92:THR:O	28:BE:93:VAL:C	2.53	0.46
29:BF:110:LEU:HD11	29:BF:181:LEU:HD23	1.96	0.46
29:BF:121:GLY:HA3	29:BF:191:ARG:HE	1.80	0.46
29:BF:197:ASP:C	29:BF:200:GLU:HG3	2.35	0.46
29:BF:97:TYR:CD2	29:BF:97:TYR:N	2.81	0.46
30:BG:27:ASN:HB3	30:BG:29:TRP:CH2	2.50	0.46
30:BG:75:LYS:HE3	30:BG:87:PRO:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:74:LYS:HB3	30:BG:87:PRO:HG2	1.96	0.46
30:BG:9:ARG:HB3	30:BG:13:GLU:OE2	2.15	0.46
31:BH:135:GLY:HA3	31:BH:141:VAL:CG2	2.46	0.46
31:BH:119:GLU:HB2	31:BH:140:LYS:HZ1	1.79	0.46
32:BK:13:GLY:O	32:BK:14:ASP:O	2.33	0.46
33:BL:130:SER:HA	33:BL:133:SER:HB2	1.97	0.46
33:BL:55:VAL:HG21	33:BL:69:THR:HG22	1.96	0.46
34:BM:88:GLU:N	34:BM:89:LYS:HZ2	2.14	0.46
35:BN:70:LYS:HE2	35:BN:102:VAL:CG1	2.45	0.46
36:BO:6:LEU:N	36:BO:7:ARG:HE	2.13	0.46
39:BR:28:VAL:HA	39:BR:37:ALA:HA	1.97	0.46
39:BR:30:ARG:HD2	39:BR:91:PRO:HB2	1.93	0.46
39:BR:70:GLY:O	39:BR:72:ALA:N	2.48	0.46
40:BS:99:LEU:C	40:BS:102:ILE:HD11	2.36	0.46
40:BS:28:VAL:HG11	40:BS:90:GLN:CD	2.35	0.46
35:BN:106:LEU:CD2	40:BS:38:ASN:HD21	2.26	0.46
40:BS:52:ILE:HG12	40:BS:66:VAL:CG1	2.43	0.46
40:BS:28:VAL:CA	40:BS:93:ARG:O	2.61	0.46
34:BM:4:TYR:CE1	41:BT:101:ARG:CZ	2.98	0.46
41:BT:92:ARG:CA	41:BT:95:LEU:HG	2.34	0.46
42:BU:4:ILE:HA	42:BU:12:TYR:HD2	1.80	0.46
42:BU:21:ARG:NH1	42:BU:21:ARG:CG	2.74	0.46
42:BU:40:LEU:HG	42:BU:55:ALA:H	1.75	0.46
42:BU:20:LEU:CB	42:BU:95:LEU:HD22	2.45	0.46
43:BV:89:ALA:O	43:BV:90:ARG:C	2.54	0.46
45:BX:32:PRO:HB2	45:BX:34:LYS:CG	2.39	0.46
45:BX:85:VAL:HG11	45:BX:87:LYS:NZ	2.31	0.46
46:BY:157:LEU:HD23	46:BY:162:GLU:H	1.80	0.46
3:AD:24:G:C2	3:AD:25:C:C6	3.03	0.46
24:BA:2122:U:O2'	26:BC:172:HIS:CE1	2.68	0.46
24:BA:2164:C:O3'	24:BA:2165:G:O4'	2.34	0.46
26:BC:167:LYS:HG3	26:BC:168:THR:H	1.80	0.46
26:BC:63:SER:HA	26:BC:160:ARG:HH12	1.80	0.46
5:AF:157:ILE:CD1	5:AF:164:ARG:HG2	2.44	0.46
24:BA:1886:C:O2'	24:BA:1887:C:H5'	2.15	0.46
14:AO:109:GLY:O	14:AO:111:LYS:HG3	2.14	0.46
25:BB:118:G:O6	25:BB:119:A:N6	2.48	0.46
6:AG:165:MET:O	6:AG:166:LYS:C	2.53	0.46
1:AA:1066:C:C3'	1:AA:1067:A:C8	2.99	0.46
1:AA:1104:G:C2'	1:AA:1105:A:H5'	2.45	0.46
1:AA:1117:G:P	11:AL:104:ARG:NH1	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1124:G:C8	1:AA:1145:C:H2'	2.50	0.46
1:AA:1302:U:H3'	1:AA:1303:C:H5'	1.92	0.46
1:AA:1376:U:O2	1:AA:1377:A:C5	2.68	0.46
1:AA:1414:U:C2'	1:AA:1415:G:H8	2.27	0.46
1:AA:1416:G:H2'	1:AA:1417:G:H8	1.79	0.46
1:AA:1433:A:N1	1:AA:1434:A:C2	2.84	0.46
1:AA:1467:G:H5''	1:AA:1467:G:H8	1.80	0.46
1:AA:1484:C:C2'	1:AA:1485:U:H5'	2.45	0.46
1:AA:1510:U:C2	1:AA:1526:G:N2	2.84	0.46
1:AA:16:A:C2	1:AA:17:U:O4'	2.68	0.46
1:AA:196:A:O2'	1:AA:222:U:C4'	2.64	0.46
1:AA:237:C:C5'	19:AT:25:ARG:NH2	2.78	0.46
1:AA:321:A:H61	1:AA:332:G:H1	1.63	0.46
1:AA:572:A:OP1	1:AA:573:A:OP1	2.33	0.46
1:AA:761:G:N3	1:AA:761:G:H2'	2.29	0.46
1:AA:828:A:C2	1:AA:859:A:O4'	2.66	0.46
1:AA:862:C:N3	1:AA:863:U:H5	2.13	0.46
1:AA:889:A:OP1	1:AA:889:A:C8	2.68	0.46
1:AA:901:A:H2'	1:AA:902:G:O4'	2.15	0.46
1:AA:954:G:N7	1:AA:955:U:C5	2.84	0.46
2:AC:31:G:C5'	11:AL:127:LYS:HG3	2.45	0.46
3:AD:35:A:C2'	3:AD:36:A:O5'	2.63	0.46
5:AF:195:VAL:C	5:AF:196:LEU:HD23	2.35	0.46
5:AF:22:TRP:CE2	16:AQ:54:PRO:HG3	2.50	0.46
5:AF:20:SER:CA	5:AF:40:ARG:HH22	2.28	0.46
6:AG:190:ASP:N	6:AG:193:ASP:OD2	2.49	0.46
6:AG:57:ARG:CD	6:AG:202:LEU:HD23	2.44	0.46
6:AG:29:PRO:O	6:AG:30:LYS:CG	2.57	0.46
6:AG:67:ILE:HD13	6:AG:68:TYR:CD1	2.50	0.46
6:AG:21:LEU:HD13	6:AG:67:ILE:HG22	1.98	0.46
7:AH:52:PRO:O	7:AH:55:VAL:CA	2.63	0.46
8:AI:13:ASN:N	8:AI:13:ASN:ND2	2.51	0.46
8:AI:31:GLU:N	8:AI:35:ALA:CB	2.78	0.46
8:AI:42:GLU:HB2	8:AI:61:LEU:CD2	2.41	0.46
8:AI:39:LYS:HG3	8:AI:64:GLN:HE21	1.79	0.46
1:AA:1240:U:O2	9:AJ:32:ARG:HG2	2.16	0.46
10:AK:104:ARG:HD3	10:AK:107:LEU:HD11	1.97	0.46
10:AK:48:TYR:C	10:AK:48:TYR:CD1	2.88	0.46
11:AL:23:ASN:H	11:AL:60:ASP:N	2.13	0.46
12:AM:95:GLU:HG2	12:AM:97:GLU:OE2	2.15	0.46
13:AN:79:SER:C	13:AN:104:GLN:HE21	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:36:ILE:HD11	17:AR:59:MET:SD	2.54	0.46
17:AR:77:ARG:NH1	17:AR:77:ARG:C	2.68	0.46
18:AS:4:ILE:CD1	18:AS:64:ALA:HB1	2.44	0.46
19:AT:18:THR:HG23	19:AT:43:LEU:HD11	1.96	0.46
20:AU:51:LEU:HA	20:AU:52:PRO:HD2	1.65	0.46
21:AV:30:LEU:C	21:AV:30:LEU:HD23	2.36	0.46
22:AW:102:GLY:C	22:AW:104:LEU:N	2.68	0.46
22:AW:50:GLU:O	22:AW:53:LEU:HG	2.14	0.46
22:AW:66:ALA:HB1	22:AW:71:THR:HB	1.98	0.46
23:AX:14:TRP:CZ3	23:AX:15:ARG:NE	2.81	0.46
24:BA:96:G:OP1	48:B1:43:HIS:NE2	2.49	0.46
49:B2:19:GLN:OE1	49:B2:50:VAL:HG23	2.15	0.46
53:B6:20:ALA:O	53:B6:21:ARG:C	2.52	0.46
24:BA:458:G:C5'	53:B6:39:ARG:HD2	2.46	0.46
53:B6:39:ARG:HB3	53:B6:40:TRP:H	1.20	0.46
54:B7:26:LYS:C	54:B7:27:THR:HG22	2.36	0.46
36:BO:49:ARG:HH22	54:B7:55:ALA:CB	2.29	0.46
24:BA:1054:A:C6	24:BA:1055:G:C6	3.04	0.46
24:BA:1127:A:C5	24:BA:2518:A:C2	3.03	0.46
24:BA:1135:C:H2'	24:BA:1136:G:C8	2.49	0.46
24:BA:1202:C:C5	24:BA:1203:G:C1'	2.93	0.46
24:BA:1455:G:N2	24:BA:1456:G:H1'	2.30	0.46
24:BA:1460:A:N1	24:BA:1732:A:C2	2.82	0.46
24:BA:1459:G:C6	24:BA:1461:G:C4	3.03	0.46
24:BA:1520:U:C5	24:BA:1520:U:OP2	2.68	0.46
24:BA:1538:G:H1	24:BA:1539:G:N2	2.13	0.46
24:BA:1542:G:H1'	24:BA:1543:A:N6	2.30	0.46
24:BA:1623:G:C2'	24:BA:1624:G:H5'	2.45	0.46
24:BA:1625:C:C6	24:BA:1625:C:O5'	2.60	0.46
24:BA:1691:C:C2'	24:BA:1692:U:O5'	2.63	0.46
24:BA:1769:G:C2'	24:BA:1770:G:H8	2.28	0.46
24:BA:1858:G:O2'	24:BA:1859:A:C5'	2.63	0.46
24:BA:1958:C:H2'	24:BA:1959:G:O5'	2.15	0.46
24:BA:195:A:C2	24:BA:201:C:N3	2.83	0.46
24:BA:2024:G:C6	24:BA:2025:C:C5	3.04	0.46
24:BA:219:G:O5'	24:BA:219:G:H8	1.97	0.46
24:BA:2238:G:H1'	24:BA:2240:C:H5	1.80	0.46
24:BA:2269:A:C2'	24:BA:2270:G:H5'	2.45	0.46
24:BA:2289:G:H2'	24:BA:2289:G:N3	2.30	0.46
24:BA:2305:A:C8	30:BG:154:GLY:O	2.68	0.46
24:BA:2305:A:N3	30:BG:156:ASP:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2404:C:H2'	24:BA:2405:G:C8	2.51	0.46
24:BA:2429:G:OP2	24:BA:2430:A:OP2	2.33	0.46
24:BA:2441:C:C2'	24:BA:2442:C:H5'	2.46	0.46
24:BA:2479:G:H2'	24:BA:2480:C:O5'	2.15	0.46
24:BA:2616:C:C2'	24:BA:2617:C:C6	2.95	0.46
24:BA:266:G:N1	24:BA:267:C:C2	2.84	0.46
24:BA:2628:C:H42	24:BA:2782:G:H8	1.62	0.46
24:BA:2812:G:H2'	24:BA:2813:A:C8	2.46	0.46
24:BA:385:C:O2'	24:BA:386:G:C5'	2.54	0.46
24:BA:447:A:C5	24:BA:473:G:C5	3.04	0.46
24:BA:542:C:C2	24:BA:543:C:C5	3.03	0.46
24:BA:546:C:N4	24:BA:547:A:N6	2.63	0.46
24:BA:599:G:N1	24:BA:600:G:N7	2.63	0.46
24:BA:684:G:C2	24:BA:775:G:O6	2.68	0.46
24:BA:684:G:C6	24:BA:774:A:C8	3.03	0.46
24:BA:777:A:O2'	24:BA:778:G:H5'	2.15	0.46
24:BA:674:G:C6	24:BA:807:U:O4	2.69	0.46
24:BA:846:C:C1'	24:BA:847:U:C5	2.98	0.46
24:BA:848:G:C2	24:BA:931:G:N7	2.82	0.46
24:BA:917:A:H2	24:BA:918:A:C2	2.30	0.46
24:BA:945:A:C3'	24:BA:946:G:H5''	2.45	0.46
24:BA:960:A:C2	24:BA:962:G:H1'	2.51	0.46
24:BA:97:C:C2'	24:BA:98:G:O5'	2.63	0.46
24:BA:988:A:O5'	49:B2:10:LYS:NZ	2.29	0.46
25:BB:16:G:O2'	25:BB:17:C:H5'	2.15	0.46
25:BB:16:G:C5	25:BB:17:C:C5	3.03	0.46
25:BB:41:U:C5'	25:BB:42:C:H5'	2.42	0.46
27:BD:262:ARG:O	27:BD:266:SER:CB	2.64	0.46
27:BD:61:LEU:HD22	27:BD:62:TYR:N	2.31	0.46
27:BD:88:ARG:CG	27:BD:89:SER:N	2.77	0.46
28:BE:30:PRO:CD	28:BE:90:THR:O	2.64	0.46
29:BF:149:ASP:HA	29:BF:172:TRP:HE1	1.79	0.46
29:BF:153:SER:OG	29:BF:190:GLU:N	2.43	0.46
24:BA:2306:C:P	30:BG:136:ARG:CZ	3.04	0.46
30:BG:140:ILE:C	30:BG:142:PRO:CD	2.84	0.46
30:BG:41:GLN:HG3	30:BG:155:MET:HB3	1.98	0.46
30:BG:47:LYS:CA	30:BG:72:ARG:HB3	2.44	0.46
31:BH:106:THR:HG21	31:BH:111:HIS:HA	1.97	0.46
31:BH:67:LEU:O	31:BH:69:ARG:N	2.49	0.46
33:BL:115:LEU:HD12	33:BL:118:THR:CA	2.43	0.46
33:BL:115:LEU:CD1	33:BL:118:THR:HA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:132:ARG:N	33:BL:136:VAL:O	2.49	0.46
33:BL:7:VAL:CG1	33:BL:67:PHE:CD2	2.97	0.46
33:BL:79:ARG:HH12	33:BL:87:GLY:N	2.13	0.46
24:BA:1664:A:O2'	35:BN:66:LYS:CE	2.63	0.46
24:BA:623:G:C8	36:BO:105:LEU:HD22	2.49	0.46
36:BO:112:LEU:HB2	36:BO:127:ALA:HB1	1.96	0.46
36:BO:130:PHE:HB2	36:BO:135:LEU:HD12	1.97	0.46
36:BO:137:LYS:N	36:BO:137:LYS:HE3	2.30	0.46
37:BP:51:ARG:NH2	37:BP:55:VAL:HG21	2.20	0.46
37:BP:61:GLY:O	46:BY:177:PRO:O	2.33	0.46
39:BR:32:LEU:C	39:BR:34:HIS:H	2.19	0.46
39:BR:42:ASP:OD2	39:BR:42:ASP:C	2.53	0.46
40:BS:111:ARG:HG3	40:BS:114:LEU:CD1	2.45	0.46
40:BS:115:ARG:O	40:BS:116:ALA:C	2.52	0.46
40:BS:52:ILE:N	40:BS:66:VAL:HG12	2.30	0.46
40:BS:6:LEU:N	40:BS:6:LEU:HD13	2.19	0.46
42:BU:14:VAL:HG21	42:BU:21:ARG:HH22	1.80	0.46
43:BV:72:LYS:CB	43:BV:108:GLY:N	2.73	0.46
43:BV:29:LEU:HG	43:BV:33:ARG:HG3	1.96	0.46
43:BV:59:VAL:HG22	43:BV:63:ASP:O	2.15	0.46
44:BW:29:TRP:C	44:BW:30:VAL:HG13	2.36	0.46
44:BW:32:PRO:HG3	44:BW:77:LYS:HB2	1.97	0.46
45:BX:47:LYS:HB2	45:BX:49:VAL:HG22	1.97	0.46
45:BX:65:ALA:O	45:BX:66:PRO:C	2.53	0.46
46:BY:103:ARG:HB2	46:BY:138:GLU:OE1	2.14	0.46
24:BA:2356:C:H4'	47:BZ:20:ARG:NE	2.30	0.46
47:BZ:37:LEU:HG	47:BZ:60:PHE:HA	1.97	0.46
32:BK:79:ILE:HA	32:BK:80:PRO:HD3	1.68	0.46
3:AD:54:U:H3'	3:AD:55:U:H6	1.80	0.46
24:BA:2118:U:H5''	24:BA:2119:A:P	2.55	0.46
24:BA:2132:U:H5''	24:BA:2133:G:H5'	1.96	0.46
26:BC:113:VAL:HG21	26:BC:138:PRO:N	2.30	0.46
26:BC:180:PHE:O	26:BC:185:LEU:HD21	2.15	0.46
26:BC:210:ARG:O	26:BC:212:VAL:HG23	2.15	0.46
26:BC:22:ILE:HD12	26:BC:227:HIS:O	2.15	0.46
27:BD:111:LEU:CB	27:BD:115:GLN:NE2	2.78	0.46
24:BA:1040:C:OP2	24:BA:1040:C:H6	1.97	0.46
14:AO:21:LYS:O	14:AO:22:SER:O	2.32	0.46
1:AA:921:U:OP1	1:AA:1082:G:C5'	2.62	0.46
1:AA:1113:C:C6	1:AA:1113:C:OP2	2.68	0.46
1:AA:1115:C:N4	1:AA:1116:C:N4	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:H2'	1:AA:1149:C:C6	2.50	0.46
1:AA:1150:U:H2'	1:AA:1151:A:C8	2.50	0.46
1:AA:1213:A:C4	1:AA:1215:G:C5	3.04	0.46
1:AA:1215:G:C2	1:AA:1216:G:N7	2.84	0.46
1:AA:1253:G:C2	1:AA:1285:A:N6	2.83	0.46
1:AA:1253:G:OP1	12:AM:44:VAL:HB	2.15	0.46
1:AA:1288:A:C2	1:AA:1289:A:N7	2.84	0.46
1:AA:1306:A:C6	1:AA:1307:U:C2	3.03	0.46
1:AA:130:A:C8	1:AA:130:A:OP1	2.68	0.46
1:AA:1329:A:C6	1:AA:1330:U:C5	3.04	0.46
1:AA:1331:G:C2'	1:AA:1332:A:OP2	2.64	0.46
1:AA:1415:G:H2'	1:AA:1416:G:C5'	2.45	0.46
1:AA:1499:A:OP1	1:AA:1505:G:OP2	2.34	0.46
1:AA:225:C:C2'	1:AA:226:G:C5'	2.92	0.46
1:AA:128:G:N2	1:AA:234:C:N1	2.63	0.46
1:AA:375:U:C4	1:AA:376:G:N7	2.83	0.46
1:AA:390:C:O2'	1:AA:391:G:H5'	2.16	0.46
1:AA:427:U:C2	1:AA:428:G:N7	2.84	0.46
1:AA:468:A:C1'	18:AS:82:GLN:NE2	2.78	0.46
1:AA:517:G:O2'	1:AA:530:G:C5'	2.64	0.46
1:AA:555:C:O2	1:AA:555:C:H2'	2.15	0.46
1:AA:582:U:H6	1:AA:582:U:O5'	1.97	0.46
1:AA:597:G:C2'	1:AA:598:U:O5'	2.62	0.46
1:AA:608:A:C4	1:AA:609:A:C8	3.03	0.46
1:AA:623:C:C2'	1:AA:624:C:H5'	2.45	0.46
1:AA:631:G:H2'	1:AA:632:A:N7	2.30	0.46
1:AA:62:U:H2'	1:AA:63:C:C6	2.51	0.46
1:AA:722:A:H2'	1:AA:724:G:C8	2.50	0.46
1:AA:777:A:C2	1:AA:778:G:C4	3.04	0.46
1:AA:933:G:OP2	9:AJ:3:ARG:HG3	2.16	0.46
1:AA:972:C:OP2	12:AM:57:LYS:CD	2.64	0.46
1:AA:977:A:O2'	1:AA:1223:C:N4	2.46	0.46
2:AC:76:A:C3'	2:AC:76:A:C8	2.98	0.46
4:AE:223:ILE:HG22	4:AE:224:GLN:N	2.29	0.46
4:AE:84:GLU:OE2	4:AE:219:VAL:CG2	2.60	0.46
6:AG:200:GLU:CG	6:AG:201:GLN:N	2.78	0.46
7:AH:75:THR:O	7:AH:75:THR:HG23	2.15	0.46
9:AJ:15:ASP:OD2	9:AJ:16:LEU:N	2.48	0.46
9:AJ:35:LYS:CG	9:AJ:37:ASN:HD21	2.04	0.46
10:AK:36:LEU:HA	10:AK:39:LEU:HB2	1.97	0.46
10:AK:86:ILE:HD13	10:AK:135:CYS:CA	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:94:TYR:N	10:AK:94:TYR:HD1	2.12	0.46
10:AK:97:VAL:HG13	10:AK:98:LYS:HZ2	1.80	0.46
11:AL:56:LEU:O	11:AL:56:LEU:HD23	2.16	0.46
11:AL:93:ARG:C	11:AL:95:LYS:N	2.68	0.46
12:AM:39:PRO:CB	12:AM:70:ARG:NH1	2.78	0.46
12:AM:30:SER:HB3	12:AM:80:LYS:HG3	1.97	0.46
12:AM:6:ILE:HG22	12:AM:98:ILE:HG23	1.96	0.46
13:AN:20:TYR:HB2	13:AN:31:THR:HB	1.98	0.46
14:AO:105:TYR:HB2	14:AO:106:ASP:H	1.47	0.46
14:AO:50:SER:O	14:AO:51:ALA:CB	2.63	0.46
18:AS:19:ILE:HD11	18:AS:39:TYR:HB3	1.98	0.46
20:AU:31:LEU:HD21	20:AU:62:GLU:OE2	2.15	0.46
20:AU:53:ARG:CG	20:AU:63:GLN:NE2	2.72	0.46
20:AU:63:GLN:O	20:AU:66:LEU:CD1	2.64	0.46
20:AU:69:THR:O	20:AU:72:ARG:N	2.49	0.46
20:AU:82:THR:O	20:AU:83:GLU:OE1	2.34	0.46
21:AV:11:VAL:CG1	21:AV:16:LEU:HD11	2.46	0.46
21:AV:19:VAL:HG21	21:AV:43:GLU:CD	2.34	0.46
48:B1:8:ALA:O	48:B1:10:LYS:N	2.48	0.46
48:B1:14:VAL:O	48:B1:17:GLU:HB2	2.15	0.46
48:B1:51:GLN:HG3	48:B1:54:ARG:NH1	2.30	0.46
52:B5:43:CYS:HB3	52:B5:44:ARG:HD2	1.96	0.46
24:BA:2383:G:P	54:B7:39:LYS:HZ2	2.38	0.46
24:BA:1010:A:OP2	24:BA:1010:A:C8	2.68	0.46
24:BA:1035:U:C2	24:BA:1036:G:C8	3.04	0.46
24:BA:1047:G:C4	24:BA:1110:G:C6	3.04	0.46
24:BA:114:U:H2'	24:BA:115:C:C6	2.50	0.46
24:BA:1227:A:OP1	41:BT:16:LYS:CE	2.64	0.46
24:BA:1272:A:H5'	24:BA:1646:C:C4	2.50	0.46
24:BA:1290:C:H2'	24:BA:1291:C:C5	2.48	0.46
24:BA:1356:G:OP1	27:BD:48:ARG:NE	2.48	0.46
24:BA:1451:C:H2'	24:BA:1457:A:H61	1.80	0.46
24:BA:1529:A:H8	24:BA:1530:G:C4	2.33	0.46
24:BA:1542:G:N9	24:BA:1543:A:N6	2.63	0.46
24:BA:1671:U:H2'	24:BA:1673:U:H5'	1.97	0.46
24:BA:1679:U:C4	24:BA:1764:G:H5''	2.50	0.46
24:BA:1741:C:O2'	24:BA:1742:C:O4'	2.28	0.46
24:BA:1825:A:C6	24:BA:1826:G:C6	3.03	0.46
24:BA:1831:G:C4	24:BA:1975:G:C2	3.03	0.46
24:BA:1871:A:C2	24:BA:1872:A:N7	2.83	0.46
24:BA:1889:A:C1'	24:BA:2087:G:O4'	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1935:G:H1'	24:BA:1964:G:N2	2.30	0.46
24:BA:1992:G:C4'	24:BA:1993:U:C4	2.98	0.46
24:BA:2048:G:H2'	24:BA:2049:G:O5'	2.15	0.46
24:BA:2212:A:N3	24:BA:2213:U:O4	2.48	0.46
24:BA:2239:G:C2	24:BA:2240:C:C6	3.03	0.46
24:BA:2242:G:C6	24:BA:2243:U:O4	2.68	0.46
24:BA:2284:C:P	52:B5:7:ILE:HG21	2.55	0.46
24:BA:2312:U:H5'	30:BG:43:LEU:CD2	2.18	0.46
24:BA:2330:G:H2'	24:BA:2331:G:O4'	2.15	0.46
24:BA:633:A:H4'	24:BA:2404:C:OP1	2.15	0.46
24:BA:245:G:C5	24:BA:246:C:H5	2.33	0.46
24:BA:257:A:O5'	24:BA:257:A:H8	1.98	0.46
24:BA:2623:G:N3	24:BA:2623:G:H2'	2.30	0.46
24:BA:2754:U:C2'	24:BA:2755:C:C5'	2.88	0.46
24:BA:2756:U:N3	24:BA:2758:A:N6	2.55	0.46
24:BA:2774:C:H2'	24:BA:2775:A:C8	2.50	0.46
24:BA:2845:G:H5''	40:BS:57:PHE:O	2.14	0.46
24:BA:308:G:C8	24:BA:501:A:C4	3.04	0.46
24:BA:339:U:C2'	24:BA:340:A:C8	2.96	0.46
24:BA:360:G:O6	24:BA:361:G:C2	2.69	0.46
24:BA:455:C:P	24:BA:472:A:N1	2.89	0.46
24:BA:514:A:N3	24:BA:514:A:H2'	2.29	0.46
24:BA:582:G:H2'	24:BA:583:G:C8	2.48	0.46
24:BA:67:U:C5'	24:BA:67:U:H6	2.28	0.46
24:BA:729:G:H2'	24:BA:730:C:C2'	2.45	0.46
24:BA:728:G:C5	24:BA:762:U:H3'	2.50	0.46
24:BA:846:C:H1'	24:BA:847:U:H5	1.80	0.46
24:BA:885:C:H41	24:BA:889:C:H6	1.63	0.46
24:BA:952:G:C6	24:BA:966:G:C6	3.03	0.46
27:BD:66:ASP:CB	27:BD:103:ARG:HD3	2.44	0.46
27:BD:147:LEU:H	27:BD:154:LYS:CG	2.27	0.46
27:BD:14:ARG:NE	27:BD:14:ARG:CA	2.70	0.46
27:BD:203:ASN:O	27:BD:204:ILE:HG22	2.16	0.46
27:BD:54:ARG:HG2	27:BD:220:HIS:O	2.15	0.46
27:BD:27:THR:CG2	27:BD:29:PRO:HD2	2.36	0.46
28:BE:101:ARG:HB3	28:BE:202:LYS:HE3	1.96	0.46
28:BE:167:VAL:O	28:BE:168:MET:O	2.34	0.46
24:BA:2734:A:O2'	28:BE:204:ALA:HA	2.16	0.46
28:BE:46:ALA:CB	28:BE:85:ASN:HD21	2.14	0.46
29:BF:18:ARG:C	29:BF:19:GLU:CG	2.83	0.46
29:BF:69:HIS:C	29:BF:69:HIS:ND1	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:57:ALA:CB	30:BG:67:LYS:C	2.84	0.46
31:BH:122:THR:O	31:BH:124:GLU:OE1	2.33	0.46
31:BH:40:GLU:HG3	31:BH:61:HIS:CE1	2.49	0.46
31:BH:52:VAL:CG2	31:BH:65:HIS:ND1	2.78	0.46
32:BK:32:PRO:CD	32:BK:33:ARG:N	2.73	0.46
33:BL:112:MET:SD	33:BL:115:LEU:CG	3.03	0.46
34:BM:14:VAL:CA	34:BM:138:LEU:HB2	2.34	0.46
35:BN:68:GLU:CA	35:BN:104:ARG:CZ	2.91	0.46
38:BQ:115:GLU:OE2	38:BQ:115:GLU:N	2.48	0.46
39:BR:71:ARG:NH2	39:BR:72:ALA:HA	2.29	0.46
40:BS:111:ARG:O	40:BS:115:ARG:HG3	2.16	0.46
40:BS:70:VAL:HB	40:BS:71:GLY:H	1.23	0.46
41:BT:50:ARG:CA	41:BT:53:ARG:NH1	2.73	0.46
41:BT:53:ARG:NH1	41:BT:53:ARG:HB3	2.26	0.46
42:BU:4:ILE:HG13	42:BU:13:ARG:HE	1.79	0.46
42:BU:80:GLN:HG3	42:BU:81:TYR:CD1	2.50	0.46
24:BA:1223:C:C4	42:BU:88:ARG:NH2	2.81	0.46
43:BV:91:GLY:O	43:BV:92:ARG:O	2.33	0.46
44:BW:73:ARG:HG2	44:BW:73:ARG:HH11	1.81	0.46
45:BX:19:LYS:CG	45:BX:21:LYS:CE	2.94	0.46
45:BX:46:LYS:HD3	45:BX:58:GLY:HA3	1.93	0.46
24:BA:2110:G:C4	24:BA:2120:G:C8	3.03	0.46
24:BA:2153:G:O2'	24:BA:2154:G:H5'	2.15	0.46
26:BC:116:THR:HG22	26:BC:147:PHE:O	2.15	0.46
24:BA:1583:A:OP1	24:BA:1586:A:O2'	2.27	0.46
25:BB:118:G:C2	25:BB:119:A:N7	2.84	0.46
1:AA:1022:G:N3	1:AA:1022:G:C2'	2.78	0.46
1:AA:219:C:H6	1:AA:219:C:H3'	1.73	0.46
26:BC:139:ASN:O	26:BC:141:LYS:N	2.48	0.46
1:AA:1384:C:H2'	1:AA:1385:G:C5'	2.46	0.46
25:BB:-1:A:C5	25:BB:0:A:C8	3.03	0.46
1:AA:1490:C:OP2	1:AA:1490:C:C6	2.68	0.46
1:AA:1067:A:O5'	1:AA:1067:A:H8	1.98	0.46
1:AA:1101:A:O2'	1:AA:1102:A:O4'	2.24	0.46
1:AA:1244:C:C2	1:AA:1245:A:N7	2.84	0.46
1:AA:1366:C:C2'	1:AA:1367:C:H5'	2.45	0.46
1:AA:925:G:C6	1:AA:1392:G:N1	2.84	0.46
1:AA:322:C:OP1	1:AA:1436:U:H4'	2.15	0.46
1:AA:166:G:H2'	1:AA:167:G:O5'	2.15	0.46
1:AA:17:U:H1'	1:AA:1080:A:N3	2.31	0.46
1:AA:191:G:O2'	22:AW:102:GLY:CA	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:20:U:O4'	1:AA:572:A:N1	2.48	0.46
1:AA:390:C:C2	1:AA:391:G:C8	3.03	0.46
1:AA:51:A:C2'	1:AA:52:G:OP2	2.63	0.46
1:AA:540:G:H2'	1:AA:541:G:C8	2.50	0.46
1:AA:549:C:C2'	1:AA:550:G:O5'	2.63	0.46
1:AA:622:A:C2'	1:AA:623:C:H5'	2.45	0.46
1:AA:658:G:C2	1:AA:659:U:C2	3.04	0.46
1:AA:720:C:H5	1:AA:721:G:H2'	1.74	0.46
1:AA:825:G:N3	1:AA:825:G:H2'	2.31	0.46
1:AA:834:C:C2'	1:AA:835:U:H5'	2.44	0.46
1:AA:876:G:O2'	10:AK:11:THR:CG2	2.60	0.46
1:AA:935:A:H2'	1:AA:936:C:C6	2.47	0.46
2:AC:11:A:H2'	2:AC:12:G:H8	1.80	0.46
2:AC:3:C:O2'	2:AC:4:G:C5'	2.61	0.46
1:AA:1338:G:H21	2:AC:41:C:C1'	2.28	0.46
2:AC:43:A:C2	2:AC:44:A:C8	3.03	0.46
3:AD:28:G:C6	3:AD:43:A:N1	2.84	0.46
3:AD:1:G:C2	3:AD:73:A:C5	3.03	0.46
4:AE:136:VAL:CA	4:AE:139:LYS:NZ	2.58	0.46
4:AE:50:GLU:O	4:AE:53:ARG:N	2.48	0.46
5:AF:132:ARG:HB3	5:AF:136:GLN:HE22	1.80	0.46
5:AF:44:GLU:CG	5:AF:52:LEU:HD11	2.45	0.46
6:AG:13:ARG:HH11	6:AG:36:ARG:HB2	1.81	0.46
6:AG:56:VAL:O	6:AG:59:ARG:N	2.49	0.46
6:AG:63:LYS:HG2	6:AG:64:LEU:H	1.75	0.46
7:AH:111:GLU:HG2	7:AH:112:LEU:H	1.81	0.46
8:AI:12:PRO:HG2	8:AI:13:ASN:N	2.30	0.46
8:AI:48:LEU:HD21	8:AI:57:GLN:HA	1.98	0.46
9:AJ:88:PRO:CD	9:AJ:152:ALA:HA	2.44	0.46
10:AK:116:LYS:HG3	10:AK:127:LEU:HD11	1.98	0.46
12:AM:27:ALA:HB2	12:AM:85:LEU:CD1	2.45	0.46
16:AQ:17:LYS:O	16:AQ:19:ARG:N	2.48	0.46
18:AS:14:ASN:CA	18:AS:42:ARG:NH2	2.78	0.46
19:AT:104:LYS:CD	19:AT:105:ALA:N	2.72	0.46
19:AT:51:TYR:CE1	19:AT:73:VAL:HG11	2.49	0.46
20:AU:63:GLN:HA	20:AU:66:LEU:CG	2.46	0.46
21:AV:36:ARG:HE	21:AV:51:VAL:HG13	1.72	0.46
22:AW:30:LYS:O	22:AW:31:SER:C	2.54	0.46
22:AW:51:GLU:HA	22:AW:54:LYS:CG	2.43	0.46
22:AW:54:LYS:O	22:AW:57:ARG:HG3	2.16	0.46
23:AX:6:ARG:HB3	23:AX:15:ARG:HE	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:23:LEU:HA	49:B2:28:LEU:CD1	2.46	0.46
49:B2:52:HIS:C	49:B2:54:VAL:N	2.69	0.46
50:B3:3:GLU:O	50:B3:3:GLU:OE2	2.33	0.46
38:BQ:33:ARG:HH21	51:B4:56:LYS:HG3	1.80	0.46
54:B7:23:VAL:CG1	54:B7:24:ALA:H	2.29	0.46
24:BA:1049:C:C6	24:BA:1049:C:C3'	2.99	0.46
24:BA:10:G:H2'	24:BA:11:G:C8	2.51	0.46
24:BA:1044:G:N7	24:BA:1112:G:N2	2.63	0.46
24:BA:1260:G:C2	24:BA:1261:C:C6	3.04	0.46
24:BA:1354:A:H2'	24:BA:1355:G:H5'	1.97	0.46
24:BA:1542:G:C1'	24:BA:1543:A:N6	2.79	0.46
24:BA:1664:A:H2'	24:BA:1665:A:H8	1.62	0.46
24:BA:1672:C:N4	24:BA:1673:U:C5	2.83	0.46
24:BA:1699:G:N7	24:BA:1763:G:N3	2.64	0.46
24:BA:1803:A:H2'	24:BA:1804:C:O4'	2.16	0.46
24:BA:1952:A:H3'	24:BA:1952:A:C8	2.51	0.46
24:BA:2031:A:C8	24:BA:2031:A:C4'	2.98	0.46
24:BA:2298:A:N3	24:BA:2299:G:H1'	2.31	0.46
24:BA:2472:G:C5	24:BA:2475:C:C4	3.03	0.46
24:BA:2513:G:H2'	24:BA:2514:U:C6	2.51	0.46
24:BA:2522:U:H1'	24:BA:2543:G:H1	1.81	0.46
24:BA:2522:U:H6	24:BA:2522:U:C5'	2.22	0.46
24:BA:2534:A:H2'	24:BA:2535:G:O4'	2.16	0.46
24:BA:2639:A:C2'	24:BA:2640:G:H5'	2.45	0.46
24:BA:2643:G:H2'	24:BA:2644:G:H8	1.79	0.46
24:BA:2683:C:C5'	28:BE:19:ARG:NH1	2.79	0.46
24:BA:2703:C:C2'	24:BA:2703:C:O2	2.63	0.46
24:BA:270(H):C:H2'	24:BA:270(I):G:H8	1.80	0.46
24:BA:270(Z):U:O2	24:BA:271(A):C:H5''	2.15	0.46
24:BA:2714:G:H2'	24:BA:2715:C:C5'	2.46	0.46
24:BA:2714:G:H5''	24:BA:2714:G:C8	2.46	0.46
24:BA:271(C):U:O2	24:BA:404:C:N3	2.48	0.46
24:BA:2767:C:H2'	24:BA:2768:C:H6	1.80	0.46
24:BA:2826:A:H2'	24:BA:2827:C:C5'	2.45	0.46
24:BA:282:A:C2	24:BA:284:U:O5'	2.68	0.46
24:BA:2851:A:N1	24:BA:2852:G:C4	2.84	0.46
24:BA:319:C:O2'	24:BA:320:A:O4'	2.34	0.46
24:BA:347:A:C2	24:BA:348:G:C8	3.03	0.46
24:BA:388:G:H1'	24:BA:390:A:N6	2.30	0.46
24:BA:498:G:C2'	24:BA:499:U:H5'	2.45	0.46
24:BA:3:U:H2'	24:BA:4:C:H6	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:681:G:C6	24:BA:682:G:C5	3.03	0.46
24:BA:775:G:N2	24:BA:787:U:C3'	2.78	0.46
24:BA:684:G:C6	24:BA:775:G:N7	2.84	0.46
24:BA:823:G:H2'	24:BA:823:G:N3	2.29	0.46
24:BA:839:U:H2'	24:BA:840:C:H6	1.77	0.46
24:BA:865:C:C2'	24:BA:865:C:O2	2.61	0.46
24:BA:876:C:H2'	24:BA:877:U:C6	2.51	0.46
24:BA:928:G:O2'	49:B2:43:ILE:CG1	2.53	0.46
24:BA:945:A:H2'	24:BA:946:G:C5'	2.45	0.46
24:BA:956:G:C8	24:BA:956:G:C3'	2.99	0.46
24:BA:84:A:N1	24:BA:99:U:H1'	2.28	0.46
25:BB:62:C:O2'	25:BB:63:G:H5'	2.15	0.46
24:BA:1818:U:C6	27:BD:156:ALA:HB3	2.49	0.46
27:BD:214:TRP:NE1	27:BD:219:PRO:CB	2.77	0.46
27:BD:70:TRP:HA	27:BD:73:VAL:CG1	2.46	0.46
28:BE:101:ARG:CD	28:BE:170:LEU:O	2.64	0.46
29:BF:123:LEU:HG	29:BF:191:ARG:HD3	1.97	0.46
29:BF:134:GLY:O	29:BF:166:ALA:CB	2.63	0.46
29:BF:161:GLU:HA	29:BF:161:GLU:OE1	2.14	0.46
29:BF:170:LEU:N	29:BF:171:PRO:HD2	2.30	0.46
29:BF:95:ARG:NE	29:BF:96:ASP:H	2.13	0.46
30:BG:113:ARG:H	30:BG:117:PHE:HD2	1.62	0.46
30:BG:12:TYR:O	30:BG:16:ARG:CG	2.64	0.46
30:BG:18:GLU:CB	30:BG:19:LEU:HD12	2.40	0.46
30:BG:27:ASN:C	30:BG:29:TRP:H	2.18	0.46
30:BG:97:ASP:C	30:BG:99:MET:N	2.63	0.46
31:BH:35:VAL:CG2	31:BH:75:ALA:CB	2.93	0.46
31:BH:7:LEU:HB2	31:BH:52:VAL:O	2.15	0.46
32:BK:30:LEU:C	32:BK:32:PRO:HD2	2.35	0.46
33:BL:51:ALA:O	33:BL:52:ILE:HB	2.16	0.46
33:BL:88:ALA:HB1	33:BL:96:VAL:CG2	2.46	0.46
33:BL:91:PRO:HB3	33:BL:134:MET:C	2.35	0.46
34:BM:27:ALA:C	34:BM:29:LYS:N	2.64	0.46
24:BA:1139:G:OP1	34:BM:63:THR:HG21	2.16	0.46
35:BN:105:GLU:O	35:BN:108:GLU:N	2.49	0.46
36:BO:112:LEU:CG	36:BO:128:HIS:CE1	2.83	0.46
36:BO:34:GLY:O	36:BO:37:GLY:N	2.49	0.46
24:BA:2393:A:H5'	36:BO:56:SER:H	1.72	0.46
37:BP:14:ARG:N	37:BP:14:ARG:CD	2.78	0.46
37:BP:77:LYS:CD	37:BP:77:LYS:N	2.77	0.46
38:BQ:13:HIS:NE2	38:BQ:15:SER:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:17:ARG:HG3	38:BQ:18:LEU:N	2.26	0.46
38:BQ:44:LEU:HD12	38:BQ:48:VAL:CG2	2.46	0.46
38:BQ:61:HIS:CE1	38:BQ:64:ARG:NH2	2.84	0.46
40:BS:105:LEU:O	40:BS:106:SER:C	2.53	0.46
40:BS:23:ARG:NH1	40:BS:88:ILE:O	2.48	0.46
40:BS:32:TYR:HB3	40:BS:87:ASP:O	2.15	0.46
41:BT:33:ARG:HB3	41:BT:34:LYS:H	1.62	0.46
41:BT:55:ARG:CA	41:BT:58:ARG:HE	2.27	0.46
41:BT:76:TYR:CD2	41:BT:80:ILE:CD1	2.90	0.46
41:BT:84:LYS:CE	41:BT:90:VAL:HG11	2.45	0.46
24:BA:64:A:C2'	44:BW:71:GLY:HA3	2.43	0.46
44:BW:26:TYR:CG	44:BW:89:ILE:HD12	2.50	0.46
45:BX:68:HIS:O	45:BX:69:ALA:C	2.53	0.46
45:BX:13:VAL:HG22	45:BX:70:SER:HB3	1.96	0.46
46:BY:18:LEU:HD11	46:BY:23:LYS:HE3	1.98	0.46
46:BY:24:LEU:HD13	46:BY:83:PRO:HD2	1.98	0.46
47:BZ:51:VAL:CG1	47:BZ:59:LEU:HD22	2.45	0.46
32:BK:113:ARG:HH12	32:BK:138:ILE:CG2	2.29	0.46
32:BK:115:ALA:H	32:BK:130:TYR:HD2	1.62	0.46
32:BK:69:LYS:NZ	32:BK:70:LYS:CG	2.78	0.46
26:BC:22:ILE:CG2	26:BC:190:ARG:HH12	2.18	0.46
26:BC:32:LEU:HB3	26:BC:220:PRO:HG2	1.98	0.46
24:BA:363(B):G:H2'	24:BA:363(C):G:C8	2.50	0.46
41:BT:30:LYS:HD2	41:BT:30:LYS:N	2.30	0.46
1:AA:1049:U:C1'	1:AA:1201:A:O4'	2.64	0.46
1:AA:1106:G:H5''	5:AF:172:ARG:CG	2.45	0.46
1:AA:1157:A:N1	1:AA:1180:A:C5	2.83	0.46
1:AA:1227:A:OP1	21:AV:80:TYR:CE2	2.68	0.46
1:AA:1230:C:O2	15:AP:126:LYS:CD	2.62	0.46
1:AA:1412:C:C2	1:AA:1413:A:N7	2.84	0.46
1:AA:1421:G:H2'	1:AA:1422:G:H5'	1.98	0.46
1:AA:1402:C:O2	1:AA:1500:A:N1	2.48	0.46
1:AA:1530:G:C6	1:AA:1531:A:N3	2.83	0.46
1:AA:186:C:O2'	1:AA:186(A):C:C5'	2.59	0.46
1:AA:19:C:H1'	1:AA:864:A:N3	2.30	0.46
1:AA:265:G:C2'	1:AA:267:C:H5	2.19	0.46
1:AA:46:G:H22	1:AA:366:C:H1'	1.80	0.46
1:AA:46:G:OP1	1:AA:306:G:N2	2.48	0.46
1:AA:563:A:H5''	1:AA:565:U:O4	2.16	0.46
1:AA:61:G:C6	1:AA:62:U:N3	2.84	0.46
1:AA:893:C:C2	1:AA:894:G:C8	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:920:U:O2'	1:AA:921:U:H5'	2.14	0.46
1:AA:942:G:C2	1:AA:943:U:C6	3.04	0.46
1:AA:961:U:HO2'	1:AA:962:C:H5'	1.77	0.46
2:AC:21:A:OP1	2:AC:21:A:O4'	2.33	0.46
2:AC:76:A:N7	24:BA:2585:U:O4'	2.49	0.46
4:AE:163:PHE:CZ	4:AE:186:ALA:C	2.89	0.46
4:AE:28:PHE:CD2	4:AE:190:THR:HA	2.51	0.46
4:AE:53:ARG:NH2	4:AE:199:TYR:CD2	2.83	0.46
4:AE:19:HIS:ND1	4:AE:204:ASN:ND2	2.63	0.46
4:AE:55:PHE:O	4:AE:58:ILE:HB	2.16	0.46
1:AA:1107:C:OP1	5:AF:172:ARG:HG2	2.15	0.46
5:AF:33:LEU:HD11	16:AQ:53:LEU:CA	2.42	0.46
6:AG:25:ARG:HD2	6:AG:25:ARG:O	2.16	0.46
7:AH:147:ASP:O	7:AH:148:VAL:C	2.52	0.46
7:AH:40:ARG:CB	7:AH:68:GLU:OE1	2.64	0.46
1:AA:1240:U:H1'	9:AJ:42:ILE:HD11	1.97	0.46
9:AJ:89:MET:HB3	9:AJ:156:TRP:CB	2.45	0.46
9:AJ:74:GLU:CB	9:AJ:91:VAL:CG2	2.89	0.46
10:AK:23:SER:O	10:AK:24:THR:HB	2.14	0.46
10:AK:26:VAL:HG13	10:AK:27:PRO:HD2	1.98	0.46
11:AL:97:LYS:HZ2	11:AL:102:LEU:CD2	2.28	0.46
11:AL:12:GLU:N	11:AL:12:GLU:CD	2.69	0.46
12:AM:34:VAL:CG1	12:AM:35:SER:N	2.79	0.46
1:AA:718:G:C4	13:AN:116:HIS:NE2	2.83	0.46
13:AN:54:ARG:HH11	13:AN:54:ARG:CG	2.12	0.46
14:AO:97:ARG:HG2	14:AO:97:ARG:O	2.15	0.46
15:AP:22:ILE:HG22	15:AP:66:LEU:HD12	1.98	0.46
16:AQ:47:LEU:CB	16:AQ:53:LEU:HD11	2.46	0.46
17:AR:71:GLN:HA	17:AR:75:PRO:HB3	1.97	0.46
18:AS:67:THR:HG22	18:AS:68:ASP:H	1.77	0.46
19:AT:67:LYS:HG3	19:AT:67:LYS:O	2.15	0.46
22:AW:42:GLN:O	22:AW:45:GLN:N	2.49	0.46
44:BW:7:VAL:HG23	48:B1:28:MET:SD	2.55	0.46
48:B1:24:LYS:CE	48:B1:56:LEU:HD21	2.45	0.46
52:B5:41:PRO:CG	52:B5:43:CYS:HB2	2.45	0.46
53:B6:25:PRO:HA	53:B6:28:ARG:HH21	1.72	0.46
54:B7:47:LYS:HB3	54:B7:47:LYS:HE2	1.36	0.46
36:BO:52:GLU:OE1	54:B7:52:LYS:HE2	2.16	0.46
24:BA:1174:A:H2	24:BA:1176:G:O5'	1.99	0.46
24:BA:1275:A:H2'	24:BA:1276:A:O4'	2.15	0.46
24:BA:1436:G:H1'	24:BA:1477:A:O2'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1449(A):G:H2'	24:BA:1450:C:C6	2.51	0.46
24:BA:1449(A):G:C2'	24:BA:1450:C:O5'	2.63	0.46
24:BA:1471:A:H62	24:BA:1519:G:H22	1.60	0.46
24:BA:1510:A:H2'	24:BA:1510:A:N3	2.30	0.46
24:BA:1626:G:H4'	24:BA:1627:G:OP1	2.15	0.46
24:BA:1644:C:O2	24:BA:1644:C:H2'	2.16	0.46
24:BA:1657:C:H2'	24:BA:1658:C:O4'	2.15	0.46
24:BA:1687:G:C6	24:BA:1688:U:C5	3.03	0.46
24:BA:1689:A:C6	24:BA:1700:A:N3	2.83	0.46
24:BA:1725:G:N2	24:BA:1726:G:H1'	2.31	0.46
24:BA:1759:A:C5'	24:BA:2715:C:O4'	2.62	0.46
24:BA:1903:G:C4	24:BA:1904:G:C8	3.04	0.46
24:BA:1944:U:C2'	24:BA:1945:G:OP1	2.64	0.46
24:BA:1951:U:O2'	24:BA:1953:A:C5'	2.63	0.46
24:BA:1977:A:C2	24:BA:1978:A:O4'	2.69	0.46
24:BA:2072:G:C6	24:BA:2073:C:N4	2.83	0.46
24:BA:2288:A:N6	24:BA:2325:G:N7	2.64	0.46
24:BA:2296:U:C3'	24:BA:2296:U:C6	2.99	0.46
24:BA:2302:G:O2'	24:BA:2303:G:C5'	2.64	0.46
24:BA:230:U:O2'	24:BA:231:C:H5'	2.16	0.46
24:BA:2311:A:H8	24:BA:2312:U:C5	2.32	0.46
24:BA:2409:G:C2	24:BA:2410:G:C1'	2.99	0.46
24:BA:2409:G:C2	24:BA:2410:G:N9	2.83	0.46
24:BA:242:G:HO2'	24:BA:243:U:H5	1.60	0.46
24:BA:2494:G:C6	24:BA:2495:G:N7	2.84	0.46
24:BA:2581:G:O6	24:BA:2610:C:C6	2.68	0.46
24:BA:262:A:C5	24:BA:263:C:C6	3.03	0.46
24:BA:2707:G:H8	24:BA:2707:G:H5''	1.81	0.46
24:BA:270(W):G:H2'	24:BA:270(X):G:C8	2.45	0.46
24:BA:2741:A:H3'	24:BA:2742:C:C6	2.50	0.46
24:BA:2754:U:H6	24:BA:2754:U:H3'	1.80	0.46
24:BA:2843:G:H2'	24:BA:2844:G:H8	1.81	0.46
24:BA:291:C:C5	24:BA:292:C:C5	3.04	0.46
24:BA:304:G:H2'	24:BA:305:U:C6	2.51	0.46
24:BA:543:C:O2	24:BA:544:C:C5	2.69	0.46
24:BA:64:A:C8	24:BA:64:A:O5'	2.69	0.46
24:BA:665:C:C2'	24:BA:666:G:O5'	2.64	0.46
24:BA:763:G:O2'	24:BA:765:G:H5'	2.15	0.46
24:BA:802:A:C2'	24:BA:803:U:O5'	2.63	0.46
24:BA:803:U:H2'	24:BA:804:A:O4'	2.16	0.46
24:BA:980:A:N1	24:BA:1135:C:H4'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:87:G:C2	25:BB:90:C:N3	2.83	0.46
27:BD:168:ARG:CG	27:BD:173:VAL:HG13	2.35	0.46
27:BD:37:LEU:HB2	27:BD:64:ILE:CG2	2.46	0.46
27:BD:7:LYS:HD3	27:BD:25:THR:CB	2.45	0.46
27:BD:88:ARG:HG3	27:BD:89:SER:N	2.31	0.46
27:BD:8:PRO:HG2	27:BD:8:PRO:O	2.15	0.46
24:BA:2620:C:C4'	28:BE:156:MET:CB	2.91	0.46
28:BE:102:VAL:O	28:BE:170:LEU:HD23	2.15	0.46
29:BF:40:GLN:HB3	29:BF:184:TYR:CZ	2.51	0.46
29:BF:205:ARG:C	29:BF:207:GLY:N	2.68	0.46
29:BF:64:ILE:HG13	29:BF:78:ILE:CG2	2.46	0.46
30:BG:1:MET:O	30:BG:3:LEU:N	2.49	0.46
30:BG:44:GLY:HA2	30:BG:88:ILE:HG21	1.97	0.46
30:BG:43:LEU:HD21	30:BG:88:ILE:HG22	1.97	0.46
24:BA:2749:A:O4'	31:BH:63:SER:HA	2.16	0.46
32:BK:9:LEU:HB2	32:BK:13:GLY:HA3	1.97	0.46
33:BL:67:PHE:CG	33:BL:68:VAL:HG22	2.51	0.46
24:BA:1077:A:P	33:BL:93:ARG:HB2	2.55	0.46
34:BM:109:LYS:HB3	34:BM:113:GLY:N	2.21	0.46
34:BM:10:GLU:O	34:BM:10:GLU:HG2	2.15	0.46
34:BM:69:GLN:OE1	34:BM:87:LEU:CD2	2.62	0.46
35:BN:106:LEU:HA	35:BN:111:PHE:CE1	2.51	0.46
35:BN:7:TYR:CB	35:BN:18:LYS:NZ	2.49	0.46
36:BO:137:LYS:HB3	36:BO:140:ALA:HB3	1.97	0.46
36:BO:28:GLY:C	36:BO:29:LYS:HD2	2.35	0.46
36:BO:46:LYS:HB2	36:BO:49:ARG:HB3	1.92	0.46
36:BO:99:LEU:HD23	36:BO:99:LEU:HA	1.73	0.46
38:BQ:28:LEU:C	38:BQ:30:THR:N	2.69	0.46
38:BQ:56:LYS:HD2	38:BQ:94:TYR:HE1	1.81	0.46
39:BR:99:LYS:O	39:BR:102:ALA:CA	2.64	0.46
40:BS:38:ASN:O	40:BS:39:ARG:C	2.54	0.46
41:BT:18:LEU:C	41:BT:18:LEU:CD1	2.84	0.46
24:BA:495:G:H21	43:BV:61:ASN:HD21	1.63	0.46
45:BX:33:LYS:HB3	45:BX:35:TYR:CD2	2.49	0.46
45:BX:47:LYS:C	45:BX:56:PRO:HG2	2.36	0.46
45:BX:69:ALA:HB3	45:BX:71:LYS:NZ	2.30	0.46
45:BX:72:VAL:O	45:BX:79:CYS:SG	2.72	0.46
46:BY:109:ALA:C	46:BY:113:ALA:CB	2.84	0.46
46:BY:122:ARG:C	46:BY:124:ILE:N	2.55	0.46
47:BZ:19:LYS:HZ1	47:BZ:41:ARG:NE	2.03	0.46
47:BZ:40:GLN:HG3	47:BZ:57:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:91:SER:CB	32:BK:121:LYS:HD2	2.44	0.46
32:BK:123:LEU:HD12	32:BK:124:GLY:N	2.29	0.46
3:AD:64:C:C2'	3:AD:65:U:O5'	2.63	0.46
3:AD:64:C:H2'	3:AD:65:U:O5'	2.16	0.46
24:BA:2133:G:N3	24:BA:2133:G:H2'	2.31	0.46
3:AD:56:C:N4	24:BA:2169:A:C4	2.84	0.46
26:BC:103:ILE:HG21	26:BC:127:LEU:HD22	1.97	0.46
24:BA:1579:A:N6	24:BA:1581:G:C2	2.83	0.46
32:BK:54:GLN:N	32:BK:57:ARG:NH2	2.62	0.46
24:BA:275:G:H8	24:BA:275:G:O5'	1.98	0.46
25:BB:110:G:C2'	25:BB:111:U:O4'	2.62	0.46
1:AA:209:U:N1	1:AA:209:U:OP2	2.48	0.46
1:AA:1144:G:H2'	1:AA:1144:G:N3	2.30	0.46
1:AA:1292:U:O2'	1:AA:1293:G:O4'	2.30	0.46
1:AA:1328:C:OP1	15:AP:28:ALA:HB2	2.15	0.46
1:AA:133:U:O3'	1:AA:134:A:H8	1.98	0.46
1:AA:1360:A:N1	1:AA:1361:G:C2	2.84	0.46
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.78	0.46
1:AA:148:G:N2	1:AA:175:C:N3	2.64	0.46
1:AA:1495:U:C2'	1:AA:1496:C:O5'	2.64	0.46
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.81	0.46
1:AA:299:G:C5	1:AA:300:A:N6	2.83	0.46
1:AA:306:G:N3	1:AA:307:C:C6	2.83	0.46
1:AA:46:G:N2	1:AA:366:C:H1'	2.30	0.46
1:AA:424:G:O2'	1:AA:425:G:H5'	2.15	0.46
1:AA:447:G:N2	1:AA:486:U:C5	2.84	0.46
1:AA:560:U:P	1:AA:566:G:H22	2.39	0.46
1:AA:597:G:H2'	1:AA:598:U:O5'	2.15	0.46
1:AA:676:A:C4	1:AA:677:U:C5	3.04	0.46
1:AA:696:A:H2'	1:AA:697:U:H5'	1.96	0.46
1:AA:757:U:H1'	1:AA:879:C:H1'	1.98	0.46
2:AC:1:C:C2	2:AC:2:G:C8	3.04	0.46
2:AC:6:G:C2'	2:AC:7:G:C8	2.97	0.46
3:AD:29:C:H2'	3:AD:30:G:O5'	2.15	0.46
3:AD:75:C:H6	3:AD:76:A:O3'	1.99	0.46
4:AE:109:SER:O	4:AE:111:ARG:N	2.48	0.46
4:AE:166:ASP:HA	4:AE:187:LEU:O	2.15	0.46
4:AE:199:TYR:O	4:AE:201:ILE:HD13	2.16	0.46
4:AE:219:VAL:O	4:AE:222:ILE:CD1	2.64	0.46
4:AE:97:TRP:HZ2	4:AE:176:GLU:OE1	1.98	0.46
6:AG:118:ARG:HG3	6:AG:136:PRO:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:112:VAL:CG2	6:AG:161:ASN:ND2	2.69	0.46
6:AG:43:HIS:C	6:AG:45:GLN:H	2.18	0.46
6:AG:65:ARG:HG2	6:AG:65:ARG:HH11	1.79	0.46
6:AG:88:VAL:HG22	7:AH:97:GLY:N	2.23	0.46
7:AH:109:ILE:CD1	7:AH:139:LEU:HD12	2.45	0.46
1:AA:922:G:C5'	7:AH:20:GLN:HG2	2.43	0.46
8:AI:79:LEU:O	8:AI:81:ILE:N	2.49	0.46
8:AI:89:MET:HB3	20:AU:76:LEU:HD11	1.98	0.46
9:AJ:102:ARG:O	9:AJ:103:TRP:C	2.54	0.46
10:AK:98:LYS:HZ2	10:AK:98:LYS:C	2.19	0.46
11:AL:11:LYS:O	11:AL:11:LYS:HG2	2.16	0.46
11:AL:23:ASN:HD22	11:AL:57:GLY:HA2	1.81	0.46
11:AL:33:PHE:C	11:AL:35:GLU:H	2.18	0.46
11:AL:63:ILE:HD12	11:AL:63:ILE:H	1.76	0.46
12:AM:40:LEU:HA	12:AM:41:PRO:HD2	1.71	0.46
13:AN:71:LYS:O	13:AN:74:ALA:CB	2.63	0.46
14:AO:36:VAL:C	14:AO:58:VAL:HG22	2.35	0.46
15:AP:73:GLU:O	15:AP:74:VAL:C	2.53	0.46
16:AQ:54:PRO:O	16:AQ:56:VAL:N	2.46	0.46
17:AR:79:ARG:O	17:AR:82:ILE:HB	2.15	0.46
18:AS:3:LYS:CE	18:AS:24:ALA:HB2	2.35	0.46
8:AI:50:TYR:HE1	20:AU:81:PHE:CE2	2.33	0.46
21:AV:40:ILE:HG21	21:AV:62:ILE:CD1	2.45	0.46
22:AW:71:THR:O	22:AW:72:LEU:C	2.54	0.46
48:B1:41:GLN:O	48:B1:44:LYS:N	2.49	0.46
49:B2:17:LYS:CD	49:B2:18:ASP:N	2.79	0.46
50:B3:47:GLN:HA	50:B3:52:THR:CG2	2.46	0.46
51:B4:35:GLU:HB3	51:B4:49:CYS:HB2	1.97	0.46
52:B5:25:LYS:C	52:B5:26:ASN:CG	2.72	0.46
54:B7:5:LYS:HB3	54:B7:63:PRO:CD	2.46	0.46
55:B8:11:CYS:CB	55:B8:32:HIS:CE1	2.98	0.46
24:BA:1030:G:N2	24:BA:1031:G:C4	2.84	0.46
24:BA:1107:G:H2'	24:BA:1108:U:O4'	2.16	0.46
24:BA:112:U:C4	24:BA:113:G:H1'	2.51	0.46
24:BA:1169:G:N2	24:BA:1181:C:N3	2.64	0.46
24:BA:991:C:C5	24:BA:1185:C:C4	3.04	0.46
24:BA:1195:G:C2	24:BA:1196:C:C6	3.04	0.46
24:BA:1284:A:C6	24:BA:1285:G:N2	2.84	0.46
24:BA:1313:U:OP1	44:BW:63:LYS:NZ	2.47	0.46
24:BA:1341:U:O2	44:BW:55:ASN:OD1	2.34	0.46
24:BA:1364:G:C6	24:BA:1368:G:O6	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1427:A:HO2'	24:BA:1428:C:P	2.38	0.46
24:BA:1332:G:C6	24:BA:1609:A:N1	2.83	0.46
24:BA:1665:A:O2'	35:BN:1:MET:HG3	2.15	0.46
24:BA:1707:G:C2	24:BA:1708:C:C2	3.04	0.46
24:BA:1712:C:C3'	24:BA:1716:U:C6	2.99	0.46
24:BA:1832:C:C5	24:BA:1833:U:C5	3.03	0.46
24:BA:1850:G:C2	24:BA:1851:U:C2	3.04	0.46
24:BA:1853:A:O2'	24:BA:1854:A:C5'	2.61	0.46
24:BA:1890:A:H2'	24:BA:1891:G:O4'	2.16	0.46
24:BA:1927:A:H2'	24:BA:1928:A:O4'	2.15	0.46
24:BA:1977:A:C2	24:BA:1978:A:C8	3.04	0.46
24:BA:201:C:H5	24:BA:202:U:C5	2.34	0.46
24:BA:531:C:C1'	24:BA:2035:G:N2	2.79	0.46
24:BA:2211:G:C3'	24:BA:2211:G:N3	2.78	0.46
24:BA:2227:A:OP1	27:BD:260:ARG:HD3	2.15	0.46
24:BA:2266:A:N1	24:BA:2273:A:OP2	2.48	0.46
24:BA:2305:A:C2	30:BG:156:ASP:HB3	2.51	0.46
24:BA:2348:U:H3'	54:B7:42:ARG:HH12	1.81	0.46
24:BA:2352:A:C2'	24:BA:2352:A:N3	2.79	0.46
24:BA:2355:C:C4	24:BA:2356:C:C4	3.04	0.46
24:BA:2415:G:C2	24:BA:2416:C:C2	3.04	0.46
24:BA:792:G:C8	24:BA:2440:C:O2	2.69	0.46
24:BA:2064:C:O4'	24:BA:2450:A:N6	2.34	0.46
24:BA:2466:C:O2'	37:BP:123:HIS:HE1	1.99	0.46
24:BA:253:C:C2'	24:BA:254:G:H5'	2.46	0.46
24:BA:2564:A:C8	24:BA:2648:C:H5'	2.50	0.46
24:BA:221:A:H2'	24:BA:266:G:N7	2.31	0.46
24:BA:222:A:C5'	24:BA:271(B):G:N2	2.79	0.46
24:BA:2777:G:C8	24:BA:2777:G:O5'	2.68	0.46
24:BA:2779:U:H4'	24:BA:2781:A:P	2.56	0.46
24:BA:278:A:C8	24:BA:279:C:C4	3.03	0.46
24:BA:2815:C:O2'	51:B4:42:PRO:HB3	2.14	0.46
24:BA:435:C:O2'	24:BA:436:C:OP1	2.33	0.46
24:BA:489:G:H21	24:BA:491:G:H1'	1.81	0.46
24:BA:553:U:C4	24:BA:554:U:C4	3.03	0.46
24:BA:602:G:O2'	24:BA:603:A:OP2	2.31	0.46
24:BA:635:C:H2'	24:BA:636:G:C5'	2.45	0.46
24:BA:638:G:C2'	24:BA:639:U:C5'	2.77	0.46
24:BA:762:U:H1'	24:BA:763:G:C4	2.51	0.46
24:BA:859:G:H3'	24:BA:859:G:H8	1.80	0.46
24:BA:924:C:H2'	24:BA:925:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:13:ARG:CD	27:BD:22:SER:HB2	2.46	0.46
27:BD:9:TYR:OH	27:BD:198:ASN:OD1	2.31	0.46
24:BA:1791:A:C8	27:BD:209:ALA:HB2	2.51	0.46
27:BD:72:LYS:O	27:BD:73:VAL:C	2.54	0.46
27:BD:74:GLY:O	27:BD:76:PRO:HD3	2.15	0.46
28:BE:120:TRP:CZ3	28:BE:122:PHE:HB2	2.48	0.46
28:BE:13:ARG:NH1	28:BE:20:ALA:CB	2.64	0.46
28:BE:182:LEU:HD23	28:BE:184:VAL:HG12	1.98	0.46
24:BA:2820:A:H61	28:BE:192:ASN:H	1.62	0.46
28:BE:199:ARG:HD2	28:BE:199:ARG:N	2.31	0.46
28:BE:59:VAL:CG1	28:BE:62:PRO:CD	2.93	0.46
28:BE:91:VAL:HG22	28:BE:92:THR:N	2.31	0.46
29:BF:118:ALA:O	29:BF:122:LYS:CB	2.60	0.46
29:BF:156:LEU:CD2	29:BF:173:VAL:HG23	2.45	0.46
24:BA:2060:A:OP1	29:BF:69:HIS:C	2.53	0.46
30:BG:103:LEU:CD1	30:BG:107:LEU:HD23	2.45	0.46
31:BH:119:GLU:O	31:BH:120:GLY:C	2.54	0.46
32:BK:8:PRO:HA	32:BK:13:GLY:H	1.80	0.46
32:BK:2:LYS:NZ	32:BK:39:ALA:HB1	2.31	0.46
33:BL:112:MET:CE	33:BL:115:LEU:HG	2.45	0.46
33:BL:51:ALA:C	33:BL:52:ILE:HG12	2.35	0.46
33:BL:27:LEU:HD13	33:BL:57:ILE:HD11	1.97	0.46
33:BL:55:VAL:HG13	33:BL:69:THR:CA	2.46	0.46
34:BM:100:GLU:O	34:BM:103:VAL:N	2.49	0.46
34:BM:27:ALA:HB1	34:BM:106:MET:CE	2.46	0.46
34:BM:86:PRO:HB2	34:BM:89:LYS:NZ	2.26	0.46
24:BA:1665:A:H5'	35:BN:66:LYS:HD3	1.97	0.46
36:BO:75:ILE:H	36:BO:75:ILE:HD13	1.78	0.46
37:BP:124:LYS:HG2	37:BP:125:LEU:N	2.31	0.46
24:BA:2708:G:OP1	38:BQ:68:ARG:NE	2.49	0.46
38:BQ:83:ILE:CG2	38:BQ:86:ARG:HH21	2.29	0.46
39:BR:17:ARG:CZ	39:BR:89:ARG:CB	2.83	0.46
39:BR:17:ARG:O	39:BR:18:ILE:C	2.53	0.46
40:BS:38:ASN:O	40:BS:39:ARG:O	2.34	0.46
40:BS:58:ASN:CA	40:BS:61:PHE:CZ	2.97	0.46
41:BT:50:ARG:O	41:BT:53:ARG:NH1	2.49	0.46
42:BU:6:LYS:HD3	42:BU:10:LYS:CG	2.45	0.46
44:BW:50:LYS:HZ3	44:BW:85:PRO:CG	2.29	0.46
44:BW:61:GLY:O	44:BW:72:LYS:HB3	2.15	0.46
45:BX:74:PRO:HB2	45:BX:100:ALA:CB	2.46	0.46
45:BX:35:TYR:CD1	45:BX:64:GLU:O	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:297:C:H5''	45:BX:83:THR:CG2	2.45	0.46
45:BX:86:ARG:HA	45:BX:91:GLU:CG	2.45	0.46
3:AD:44:G:H2'	3:AD:45:U:H5'	1.97	0.46
3:AD:48:C:C2'	3:AD:48:C:O2	2.60	0.46
24:BA:2173:A:H3'	24:BA:2174:C:C6	2.51	0.46
26:BC:104:LEU:HD22	26:BC:127:LEU:HD23	1.96	0.46
26:BC:62:VAL:CG1	26:BC:62:VAL:O	2.57	0.46
26:BC:74:VAL:O	26:BC:93:TYR:HD2	1.98	0.46
26:BC:89:ALA:HB2	26:BC:154:ARG:HH11	1.81	0.46
1:AA:1171:G:C2'	1:AA:1172:C:H6	2.29	0.46
24:BA:274:G:H2'	24:BA:275:G:H5'	1.97	0.46
1:AA:160:A:O2'	1:AA:161:A:H5'	2.16	0.46
1:AA:346:G:H2'	1:AA:347:G:C4'	2.46	0.46
1:AA:1087:G:C2	1:AA:1099:G:C2	3.04	0.46
1:AA:1091:U:O2	1:AA:1093:A:C8	2.68	0.46
1:AA:1069:C:N4	1:AA:1094:G:C6	2.84	0.46
1:AA:1154:G:C4	1:AA:1155:G:C8	3.04	0.46
1:AA:1117:G:N2	1:AA:1184:G:C4	2.84	0.46
1:AA:1198:G:O2'	1:AA:1199:U:H5'	2.15	0.46
1:AA:1212:U:O2'	1:AA:1213:A:O5'	2.33	0.46
1:AA:1231:G:H5''	11:AL:126:SER:OG	2.16	0.46
1:AA:1240:U:O4	9:AJ:30:ILE:O	2.33	0.46
1:AA:1250:A:OP1	11:AL:66:ARG:CD	2.60	0.46
1:AA:1275:A:H2'	1:AA:1276:G:H5'	1.98	0.46
1:AA:1256:A:N6	1:AA:1278:U:C2'	2.73	0.46
1:AA:1465:C:O2	1:AA:1466:C:O4'	2.32	0.46
1:AA:1471:G:H2'	1:AA:1472:U:C6	2.51	0.46
1:AA:186:C:H2'	1:AA:186(A):C:H6	1.81	0.46
1:AA:254:G:H5''	19:AT:66:SER:OG	2.15	0.46
1:AA:465:A:N7	1:AA:467:G:C2	2.84	0.46
1:AA:507:C:H2'	1:AA:508:C:H5	1.81	0.46
1:AA:539:A:C6	1:AA:540:G:C6	3.03	0.46
1:AA:552:U:C2	1:AA:553:A:C8	3.04	0.46
1:AA:55:A:H2'	1:AA:56:U:C5'	2.46	0.46
1:AA:576:G:C8	1:AA:881:G:C1'	2.90	0.46
1:AA:701:C:C2	1:AA:703:G:C2	3.04	0.46
1:AA:779:C:C4	1:AA:780:A:C2	3.04	0.46
1:AA:771:G:C6	1:AA:809:G:C6	3.04	0.46
1:AA:880:C:OP1	14:AO:12:ARG:NH2	2.36	0.46
1:AA:901:A:C2'	1:AA:902:G:O5'	2.64	0.46
1:AA:926:G:C4	1:AA:1505:G:C2	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:949:A:N3	1:AA:971:G:O6	2.49	0.46
2:AC:50:U:C2	2:AC:51:C:C5	3.04	0.46
3:AD:6:G:O6	3:AD:68:U:C4	2.68	0.46
4:AE:116:GLU:CG	4:AE:117:GLU:H	2.25	0.46
4:AE:141:GLU:CD	4:AE:141:GLU:C	2.73	0.46
4:AE:146:GLN:NE2	4:AE:150:SER:CB	2.65	0.46
4:AE:14:GLY:HA3	4:AE:209:ARG:HH22	1.73	0.46
4:AE:154:LEU:HB3	4:AE:155:LEU:H	1.63	0.46
4:AE:171:ALA:O	4:AE:172:ILE:C	2.53	0.46
4:AE:163:PHE:CZ	4:AE:186:ALA:HA	2.51	0.46
5:AF:130:VAL:HA	5:AF:133:ALA:CB	2.45	0.46
5:AF:151:VAL:CG1	5:AF:152:ILE:N	2.79	0.46
5:AF:147:LYS:CB	5:AF:203:PHE:HB3	2.32	0.46
6:AG:179:GLU:C	6:AG:181:MET:H	2.19	0.46
6:AG:30:LYS:O	6:AG:31:CYS:CB	2.64	0.46
7:AH:125:SER:C	7:AH:127:ASN:N	2.69	0.46
9:AJ:140:ASP:O	9:AJ:144:MET:CG	2.64	0.46
3:AD:41:G:H1'	9:AJ:144:MET:HE2	1.98	0.46
9:AJ:20:ASP:OD1	9:AJ:22:LEU:HB3	2.16	0.46
9:AJ:74:GLU:CG	9:AJ:75:VAL:N	2.78	0.46
4:AE:181:PHE:HD1	10:AK:71:GLY:HA3	1.75	0.46
10:AK:92:ARG:NH1	10:AK:92:ARG:CG	2.78	0.46
11:AL:50:LEU:CD2	11:AL:50:LEU:C	2.83	0.46
11:AL:78:LYS:O	11:AL:81:ILE:HB	2.16	0.46
13:AN:18:ARG:HG2	13:AN:18:ARG:HH11	1.80	0.46
14:AO:85:ILE:CG2	14:AO:85:ILE:O	2.63	0.46
14:AO:6:THR:HG23	14:AO:9:GLN:OE1	2.16	0.46
16:AQ:24:CYS:O	16:AQ:25:VAL:C	2.54	0.46
16:AQ:26:ARG:CB	16:AQ:43:CYS:HB2	2.43	0.46
17:AR:49:ASP:O	17:AR:49:ASP:CG	2.53	0.46
19:AT:28:PRO:C	19:AT:36:ILE:CD1	2.84	0.46
19:AT:60:ILE:CD1	19:AT:62:SER:OG	2.54	0.46
21:AV:24:ALA:HB3	21:AV:25:LYS:NZ	2.30	0.46
21:AV:50:ALA:HB1	21:AV:57:HIS:CA	2.46	0.46
21:AV:47:HIS:O	21:AV:61:TYR:HD2	1.99	0.46
22:AW:97:ALA:O	22:AW:99:LEU:HD23	2.16	0.46
48:B1:43:HIS:ND1	48:B1:43:HIS:N	2.63	0.46
49:B2:15:TYR:CE1	49:B2:20:LYS:HE3	2.51	0.46
49:B2:39:ASP:HB3	49:B2:44:ARG:NH1	2.31	0.46
52:B5:6:ARG:O	52:B5:7:ILE:O	2.34	0.46
53:B6:43:THR:HG23	53:B6:46:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:30:ARG:CZ	54:B7:41:ILE:O	2.62	0.46
54:B7:44:LYS:C	54:B7:45:GLY:O	2.53	0.46
54:B7:62:LEU:CB	54:B7:63:PRO:HD3	2.29	0.46
24:BA:1013:C:N4	24:BA:1150:C:N4	2.63	0.46
24:BA:1051:G:C5'	24:BA:1052:C:OP2	2.58	0.46
24:BA:105:C:H2'	24:BA:106:C:C6	2.51	0.46
24:BA:1081:U:O4	24:BA:1086:A:H2	1.99	0.46
24:BA:120:U:C2'	24:BA:120:U:O2	2.53	0.46
24:BA:1222:C:N4	24:BA:1227:A:H61	2.09	0.46
24:BA:1236:G:O2'	24:BA:1237:A:O4'	2.20	0.46
24:BA:1304:C:C4	24:BA:1305:C:C5	3.04	0.46
24:BA:1305:C:H2'	24:BA:1306:C:H6	1.81	0.46
24:BA:1357:U:O4	24:BA:1358:G:C2	2.69	0.46
24:BA:1451:C:N3	24:BA:1454:U:OP1	2.49	0.46
24:BA:144:C:N3	24:BA:145:G:C8	2.83	0.46
24:BA:1559:G:N3	24:BA:1560:G:OP1	2.49	0.46
24:BA:1661:G:H2'	24:BA:1662:C:H6	1.81	0.46
24:BA:1682:G:H2'	24:BA:1683:C:C6	2.51	0.46
24:BA:1764:G:N1	24:BA:1989:G:C4	2.84	0.46
24:BA:1808:U:O4	24:BA:1810:A:N1	2.46	0.46
24:BA:1879:C:C4	24:BA:1880:C:C5	3.03	0.46
24:BA:1985:G:C2'	24:BA:1986:A:O5'	2.64	0.46
24:BA:2069:G:C6	24:BA:2070:G:N7	2.84	0.46
24:BA:213:A:O2'	24:BA:214:G:H5'	2.15	0.46
24:BA:222:A:C5	24:BA:224:G:C4	3.03	0.46
24:BA:2307:G:C4'	24:BA:2311:A:N6	2.79	0.46
24:BA:2311:A:C5'	24:BA:2312:U:H5	2.16	0.46
24:BA:2392:A:C2	24:BA:2429:G:C2	3.04	0.46
24:BA:2511:U:O4	24:BA:2512:C:N4	2.49	0.46
24:BA:2623:G:N2	24:BA:2624:G:C4	2.84	0.46
24:BA:270(O):U:C5'	24:BA:270(P):C:H41	2.29	0.46
24:BA:2814:C:O2'	51:B4:29:THR:HG21	2.15	0.46
24:BA:2839:G:H1'	38:BQ:93:GLY:H	1.81	0.46
24:BA:2848:G:C2'	40:BS:99:LEU:HD21	2.46	0.46
24:BA:323:G:OP2	24:BA:340:A:C6	2.69	0.46
24:BA:327:G:N2	24:BA:328:U:C2	2.84	0.46
24:BA:378:C:O2	24:BA:397:G:N2	2.49	0.46
24:BA:460:A:H2'	24:BA:461:C:O4'	2.16	0.46
24:BA:49:A:N7	24:BA:177:G:C6	2.83	0.46
24:BA:528:A:C8	24:BA:528:A:H3'	2.51	0.46
24:BA:628:G:N1	24:BA:629:G:C6	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:641:C:C2'	24:BA:2350:C:OP1	2.63	0.46
24:BA:641:C:C6	24:BA:642:G:O4'	2.68	0.46
24:BA:64:A:C2	24:BA:65:C:N1	2.83	0.46
24:BA:672:C:O5'	36:BO:38:GLN:OE1	2.34	0.46
24:BA:714:U:O2	24:BA:715:G:N7	2.49	0.46
24:BA:76:C:P	48:B1:50:ARG:HH11	2.39	0.46
24:BA:898:C:C4	24:BA:899:A:C8	3.04	0.46
24:BA:956:G:H8	24:BA:956:G:H3'	1.80	0.46
24:BA:977:G:HO2'	24:BA:978:G:H5'	1.76	0.46
24:BA:970:C:O2'	24:BA:984:A:O2'	2.20	0.46
27:BD:66:ASP:HB3	27:BD:104:TYR:O	2.16	0.46
27:BD:165:ILE:H	27:BD:165:ILE:CD1	2.28	0.46
27:BD:248:SER:HB3	27:BD:249:PRO:HD2	1.96	0.46
27:BD:46:GLN:CG	27:BD:52:ARG:HH12	2.28	0.46
28:BE:152:LYS:NZ	34:BM:77:GLY:CA	2.78	0.46
28:BE:105:THR:HB	28:BE:166:THR:OG1	2.15	0.46
29:BF:201:VAL:HA	29:BF:204:ASN:CG	2.37	0.46
29:BF:18:ARG:HH11	29:BF:20:LEU:HD13	1.81	0.46
30:BG:8:LYS:CE	30:BG:103:LEU:HD23	2.42	0.46
31:BH:25:LYS:HE2	31:BH:32:GLU:CG	2.41	0.46
31:BH:53:GLU:N	31:BH:53:GLU:OE1	2.49	0.46
33:BL:128:ALA:HB1	33:BL:132:ARG:HH12	1.81	0.46
34:BM:35:ARG:HD2	34:BM:48:MET:SD	2.56	0.46
35:BN:63:VAL:HG23	35:BN:80:ASP:O	2.16	0.46
37:BP:124:LYS:CG	37:BP:125:LEU:N	2.78	0.46
37:BP:91:GLU:N	37:BP:91:GLU:OE2	2.48	0.46
37:BP:72:LYS:HG3	37:BP:96:VAL:CG2	2.46	0.46
38:BQ:98:LEU:C	38:BQ:112:ALA:HB1	2.35	0.46
39:BR:93:LYS:O	39:BR:98:VAL:CG1	2.63	0.46
40:BS:104:ASN:HA	40:BS:107:ASP:OD2	2.16	0.46
40:BS:53:ARG:CD	40:BS:53:ARG:N	2.77	0.46
40:BS:62:THR:HA	40:BS:78:LEU:O	2.15	0.46
43:BV:20:VAL:CG1	43:BV:21:VAL:H	2.26	0.46
44:BW:7:VAL:O	44:BW:8:ILE:HG23	2.16	0.46
44:BW:90:GLU:O	44:BW:91:ALA:C	2.53	0.46
45:BX:12:THR:HG21	45:BX:71:LYS:O	2.15	0.46
45:BX:46:LYS:N	45:BX:57:GLN:HA	2.31	0.46
46:BY:24:LEU:O	46:BY:39:VAL:CG2	2.62	0.46
24:BA:2387:U:O2	47:BZ:41:ARG:NH2	2.48	0.46
47:BZ:48:GLY:O	47:BZ:51:VAL:HG23	2.16	0.46
47:BZ:28:GLY:O	47:BZ:67:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:75:LEU:H	47:BZ:75:LEU:HD12	1.80	0.46
32:BK:111:PRO:CG	32:BK:112:LYS:N	2.78	0.46
26:BC:8:ARG:HH21	26:BC:12:GLU:HG2	1.79	0.46
26:BC:75:LEU:CB	26:BC:110:PHE:CG	2.97	0.46
1:AA:1035:A:O2'	1:AA:1036:G:H5'	2.16	0.46
24:BA:163:U:O5'	24:BA:163:U:C6	2.59	0.46
25:BB:119:A:C3'	25:BB:119:A:C8	2.99	0.46
1:AA:1009:G:C6	1:AA:1021:G:C6	3.03	0.46
27:BD:79:VAL:HG21	27:BD:115:GLN:HG2	1.97	0.46
24:BA:2373:G:O2'	24:BA:2374:C:H6	1.98	0.46
24:BA:2462:U:C2	24:BA:2463:C:C5	3.03	0.46
24:BA:273(D):C:H2'	24:BA:273(E):U:H6	1.81	0.46
1:AA:1044:A:H2'	1:AA:1045:C:O4'	2.16	0.46
1:AA:103:C:C4	1:AA:104:G:N7	2.83	0.46
1:AA:17:U:O4'	1:AA:1080:A:H1'	2.16	0.46
1:AA:109:A:O4'	1:AA:109:A:N3	2.48	0.46
1:AA:117:G:O6	1:AA:289:G:H1'	2.15	0.46
1:AA:1206:G:C6	1:AA:1207:G:C6	3.04	0.46
1:AA:130:A:OP2	19:AT:63:ARG:NH2	2.46	0.46
1:AA:1429:C:HO2'	1:AA:1430:C:C5'	2.28	0.46
1:AA:1483:A:O2'	1:AA:1484:C:C5'	2.62	0.46
1:AA:1539:C:O2	1:AA:1540:U:C6	2.69	0.46
1:AA:16:A:C1'	7:AH:17:ALA:HB3	2.46	0.46
1:AA:186(B):C:N3	1:AA:186(C):G:C8	2.84	0.46
1:AA:438:G:N2	1:AA:495:A:O5'	2.49	0.46
1:AA:519:C:H2'	1:AA:520:A:O5'	2.15	0.46
1:AA:55:A:C2	1:AA:56:U:C1'	2.96	0.46
1:AA:580:U:C5'	17:AR:58:MET:HG2	2.46	0.46
1:AA:78:G:H8	1:AA:78:G:OP2	1.98	0.46
1:AA:792:A:C2'	1:AA:794:A:H62	2.20	0.46
1:AA:854:G:OP1	1:AA:871:U:O2	2.33	0.46
1:AA:854:G:C2	1:AA:855:G:N7	2.84	0.46
1:AA:89:U:O5'	1:AA:89:U:H6	1.99	0.46
1:AA:978:A:O2'	1:AA:979:C:H5'	2.16	0.46
1:AA:1074:G:O4'	4:AE:104:ASN:HB2	2.15	0.46
4:AE:187:LEU:HD21	4:AE:203:GLY:O	2.16	0.46
4:AE:23:ARG:NH1	4:AE:23:ARG:C	2.60	0.46
5:AF:108:ASN:ND2	5:AF:110:ASN:CB	2.79	0.46
5:AF:84:ILE:HD12	5:AF:101:LEU:HD22	1.98	0.46
5:AF:91:LEU:O	5:AF:92:ALA:C	2.54	0.46
6:AG:106:TYR:HD1	6:AG:106:TYR:O	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:61:LYS:HB2	6:AG:203:VAL:HG13	1.97	0.46
7:AH:89:ILE:CG1	7:AH:131:ILE:HD12	2.45	0.46
8:AI:2:ARG:NH2	17:AR:2:PRO:HD2	2.30	0.46
8:AI:53:ALA:O	8:AI:55:ASP:CG	2.54	0.46
9:AJ:55:GLY:O	9:AJ:56:GLN:O	2.34	0.46
11:AL:10:ARG:CB	11:AL:104:ARG:HB3	2.46	0.46
11:AL:12:GLU:N	11:AL:12:GLU:OE2	2.49	0.46
1:AA:1150:U:O3'	12:AM:41:PRO:HB3	2.16	0.46
14:AO:40:VAL:HG11	14:AO:77:LEU:HB2	1.96	0.46
15:AP:14:ARG:NE	15:AP:44:ARG:HH11	2.14	0.46
17:AR:78:TYR:O	17:AR:79:ARG:C	2.54	0.46
18:AS:16:HIS:C	18:AS:17:TYR:CD1	2.89	0.46
19:AT:38:ARG:CG	19:AT:39:SER:N	2.79	0.46
19:AT:7:THR:OG1	19:AT:58:GLU:CA	2.64	0.46
1:AA:664:G:H5''	20:AU:64:ARG:HE	1.80	0.46
21:AV:52:TYR:CD1	21:AV:56:GLN:O	2.69	0.46
48:B1:1:MET:O	48:B1:4:GLN:N	2.48	0.46
48:B1:32:PHE:H	48:B1:32:PHE:HD1	1.64	0.46
24:BA:78:A:P	48:B1:5:LEU:HD11	2.56	0.46
24:BA:1366:A:C5'	50:B3:1:MET:N	2.79	0.46
53:B6:17:GLY:O	53:B6:21:ARG:NH2	2.49	0.46
53:B6:48:LYS:HG3	53:B6:49:ARG:N	2.31	0.46
24:BA:1005:C:C2	24:BA:1006:C:C5	3.02	0.46
24:BA:1009:A:C2	24:BA:1010:A:C4	3.04	0.46
24:BA:1053:C:N4	24:BA:1105:U:N3	2.63	0.46
24:BA:1023:U:C4'	24:BA:1123:C:OP1	2.64	0.46
24:BA:1213:A:C5	24:BA:1214:A:C8	3.04	0.46
24:BA:1314:C:C2	24:BA:1339:G:C2	3.04	0.46
24:BA:772:C:H5'	24:BA:1356:G:OP1	2.15	0.46
24:BA:149:A:H2'	24:BA:150:C:H5'	1.97	0.46
24:BA:1559:G:C6	24:BA:1560:G:O4'	2.69	0.46
24:BA:1708:C:C2	24:BA:1709:U:C5	3.04	0.46
24:BA:1759:A:P	24:BA:1759:A:H8	2.39	0.46
24:BA:175:G:C2'	24:BA:176:G:H5'	2.45	0.46
24:BA:1770:G:C2	24:BA:1771:C:C4	3.04	0.46
24:BA:120:U:O4	24:BA:177:G:N2	2.49	0.46
24:BA:1809:A:H5''	24:BA:1810:A:C2	2.50	0.46
24:BA:183:C:H5''	24:BA:184:C:OP2	2.16	0.46
24:BA:1890:A:C4	24:BA:1891:G:C8	3.04	0.46
24:BA:1933:G:H21	24:BA:1974:C:H5'	1.79	0.46
24:BA:194:G:O5'	24:BA:194:G:H8	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1992:G:H1'	24:BA:1993:U:C5	2.51	0.46
24:BA:2054:A:OP1	24:BA:2055:C:H1'	2.16	0.46
24:BA:2536:G:C6	24:BA:2537:U:C5	3.04	0.46
24:BA:2599:G:C4	24:BA:2600:A:C8	3.04	0.46
24:BA:2606:C:N3	24:BA:2607:G:N7	2.64	0.46
24:BA:260:G:N1	24:BA:261:G:C5	2.84	0.46
24:BA:2644:G:C6	24:BA:2645:G:N2	2.83	0.46
24:BA:2749:A:H2	24:BA:2757:A:C2	2.34	0.46
24:BA:2850:A:C2	24:BA:2851:A:C8	3.04	0.46
24:BA:2850:A:C6	24:BA:2869:G:H5'	2.50	0.46
24:BA:1710:C:H4'	24:BA:2858:C:N3	2.30	0.46
24:BA:2882:A:H2'	24:BA:2883:A:O5'	2.16	0.46
24:BA:288:C:O5'	24:BA:288:C:C6	2.63	0.46
24:BA:302:C:N3	24:BA:303:U:C5	2.84	0.46
24:BA:41:C:C2	24:BA:43:G:C8	3.03	0.46
24:BA:457:A:C4'	24:BA:459:U:C2	2.99	0.46
24:BA:510:C:C2	24:BA:511:U:C6	3.04	0.46
24:BA:545:G:H1'	24:BA:549:G:N2	2.28	0.46
24:BA:685:A:N9	24:BA:774:A:N6	2.63	0.46
24:BA:728:G:N1	24:BA:762:U:C3'	2.65	0.46
24:BA:763:G:H1'	24:BA:765:G:O4'	2.16	0.46
24:BA:799:G:H8	24:BA:799:G:OP2	1.98	0.46
24:BA:809:G:H2'	24:BA:810:U:O5'	2.15	0.46
24:BA:909:A:H5'	24:BA:909:A:H8	1.78	0.46
24:BA:925:C:C2	24:BA:926:A:C8	3.04	0.46
24:BA:947:G:C2	24:BA:948:G:C8	3.04	0.46
24:BA:973:A:C2'	24:BA:974:G:O5'	2.63	0.46
25:BB:12:C:H2'	25:BB:13:A:H5''	1.98	0.46
25:BB:49:C:C2	25:BB:50:G:H8	2.34	0.46
27:BD:94:LEU:CD2	27:BD:104:TYR:CD1	2.99	0.46
27:BD:129:ASN:O	27:BD:193:VAL:CB	2.64	0.46
27:BD:122:ASP:HA	27:BD:135:PHE:CE2	2.51	0.46
27:BD:154:LYS:HG3	27:BD:154:LYS:O	2.16	0.46
27:BD:245:PRO:HA	27:BD:246:PRO:HD3	1.75	0.46
28:BE:59:VAL:HB	28:BE:62:PRO:HD2	1.96	0.46
24:BA:600:G:C1'	29:BF:105:VAL:HG21	2.45	0.46
24:BA:321:G:OP1	29:BF:135:LYS:HE3	2.16	0.46
29:BF:181:LEU:N	29:BF:181:LEU:CD1	2.74	0.46
29:BF:62:ARG:HG2	29:BF:62:ARG:HH21	1.81	0.46
30:BG:141:PHE:CE2	30:BG:145:THR:HA	2.51	0.46
30:BG:148:MET:CG	30:BG:150:ASP:O	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:181:ARG:CG	30:BG:182:LYS:N	2.78	0.46
30:BG:36:LYS:C	30:BG:37:VAL:HG23	2.36	0.46
30:BG:49:ASP:O	30:BG:50:ALA:C	2.55	0.46
30:BG:64:THR:HB	30:BG:102:PHE:CE1	2.50	0.46
31:BH:125:VAL:N	31:BH:126:PRO:CD	2.78	0.46
31:BH:95:ARG:O	31:BH:105:LEU:HG	2.16	0.46
32:BK:45:LYS:O	32:BK:46:ALA:C	2.53	0.46
33:BL:111:LYS:O	33:BL:113:PRO:CD	2.64	0.46
33:BL:12:LEU:CB	33:BL:13:PRO:HD2	2.45	0.46
33:BL:8:VAL:HG22	33:BL:30:HIS:CG	2.50	0.46
34:BM:99:LEU:O	34:BM:100:GLU:C	2.52	0.46
34:BM:130:HIS:O	34:BM:133:GLN:O	2.34	0.46
34:BM:11:PRO:HB2	34:BM:13:TRP:CZ3	2.50	0.46
34:BM:36:GLY:H	34:BM:49:GLY:H	1.60	0.46
35:BN:10:VAL:HG22	35:BN:11:ALA:N	2.28	0.46
35:BN:58:VAL:O	35:BN:86:ILE:HB	2.16	0.46
35:BN:13:ASN:HA	35:BN:94:ARG:NH1	2.30	0.46
36:BO:112:LEU:HD12	36:BO:127:ALA:CB	2.45	0.46
36:BO:81:GLN:C	36:BO:86:LYS:CG	2.80	0.46
36:BO:81:GLN:NE2	36:BO:86:LYS:HG3	2.31	0.46
37:BP:111:GLU:CB	37:BP:113:GLN:NE2	2.61	0.46
37:BP:29:PHE:HD1	37:BP:29:PHE:O	1.98	0.46
37:BP:86:GLY:O	37:BP:87:LYS:HB3	2.16	0.46
38:BQ:28:LEU:O	38:BQ:30:THR:N	2.49	0.46
39:BR:17:ARG:CZ	39:BR:25:ARG:NH2	2.79	0.46
39:BR:40:ILE:HG13	39:BR:47:THR:CB	2.46	0.46
39:BR:9:ARG:HD3	39:BR:12:PHE:CE2	2.51	0.46
40:BS:49:VAL:HG22	40:BS:91:ARG:HH11	1.81	0.46
41:BT:39:LEU:HD23	41:BT:42:ALA:HB3	1.98	0.46
42:BU:62:LEU:C	42:BU:64:HIS:CE1	2.90	0.46
44:BW:12:VAL:C	44:BW:14:SER:H	2.19	0.46
44:BW:85:PRO:HG2	44:BW:87:GLN:CG	2.46	0.46
44:BW:88:LYS:C	44:BW:90:GLU:H	2.19	0.46
45:BX:41:GLY:HA3	45:BX:61:ILE:HG22	1.98	0.46
46:BY:102:LEU:HD23	46:BY:125:LEU:H	1.81	0.46
46:BY:30:ASN:OD1	46:BY:33:LEU:HD12	2.16	0.46
46:BY:48:PHE:CA	46:BY:54:HIS:NE2	2.79	0.46
47:BZ:10:THR:HB	47:BZ:11:ARG:H	1.61	0.46
24:BA:2262:U:C4	47:BZ:16:SER:HB3	2.51	0.46
47:BZ:37:LEU:CD2	47:BZ:37:LEU:N	2.74	0.46
32:BK:87:LYS:HZ3	32:BK:122:GLU:H	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:68:LEU:CD1	32:BK:107:VAL:CG1	2.94	0.46
32:BK:69:LYS:CD	32:BK:70:LYS:CG	2.94	0.46
3:AD:16:U:HO2'	3:AD:17:U:P	2.39	0.46
1:AA:1088:G:C6	1:AA:1089:G:N7	2.84	0.46
1:AA:1068:G:O6	1:AA:1108:G:C2	2.69	0.46
1:AA:1129:C:O4'	1:AA:1130:A:C8	2.69	0.46
1:AA:1148:U:O2'	1:AA:1149:C:C5'	2.61	0.46
1:AA:1196:U:H5'	1:AA:1197:G:H5''	1.98	0.46
1:AA:1377:A:O2'	1:AA:1378:C:OP2	2.32	0.46
1:AA:927:G:OP2	1:AA:1503:A:N6	2.49	0.46
1:AA:16:A:N6	1:AA:920:U:H3	2.14	0.46
1:AA:259:G:H5''	22:AW:83:ARG:NH2	2.27	0.46
1:AA:277:C:OP2	19:AT:41:LYS:NZ	2.40	0.46
1:AA:284:G:H2'	1:AA:285:G:C8	2.50	0.46
1:AA:354:G:H2'	1:AA:355:C:O5'	2.15	0.46
1:AA:378:G:C2	1:AA:379:C:C4	3.04	0.46
1:AA:412:A:HO2'	1:AA:413:G:H8	1.55	0.46
1:AA:445:G:C2	1:AA:446:G:C4	3.03	0.46
1:AA:467:G:H2'	1:AA:468:A:C8	2.50	0.46
1:AA:492:G:C5	1:AA:493:G:C8	3.04	0.46
1:AA:503:C:C2	1:AA:504:C:C5	3.03	0.46
1:AA:542:G:H21	1:AA:543:C:H1'	1.81	0.46
1:AA:591:U:N3	1:AA:649:G:C6	2.84	0.46
1:AA:623:C:H2'	1:AA:624:C:O4'	2.15	0.46
1:AA:631:G:O5'	1:AA:631:G:H8	1.99	0.46
1:AA:644:G:H2'	1:AA:645:C:H5'	1.97	0.46
1:AA:656:C:HO2'	1:AA:657:G:H5'	1.79	0.46
1:AA:686:U:HO2'	1:AA:687:A:P	2.37	0.46
1:AA:686:U:O2'	1:AA:687:A:P	2.73	0.46
1:AA:707:C:C2'	1:AA:708:C:C5'	2.94	0.46
1:AA:725:G:H2'	1:AA:726:C:C6	2.50	0.46
1:AA:978:A:C8	1:AA:980:C:N4	2.84	0.46
1:AA:97:U:H2'	1:AA:99:C:C6	2.51	0.46
2:AC:10:G:N3	2:AC:11:A:C8	2.84	0.46
2:AC:15:G:N2	2:AC:59:A:N1	2.64	0.46
2:AC:14:A:C8	2:AC:15:G:N7	2.84	0.46
3:AD:40:C:H3'	3:AD:41:G:C5'	2.46	0.46
4:AE:133:LYS:O	4:AE:136:VAL:HB	2.16	0.46
4:AE:139:LYS:CG	4:AE:140:HIS:H	2.25	0.46
4:AE:69:LEU:CD1	4:AE:71:VAL:HG23	2.46	0.46
4:AE:97:TRP:CZ2	4:AE:102:LEU:CD2	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:13:GLY:C	5:AF:14:ILE:HG12	2.36	0.46
5:AF:29:TYR:HD2	5:AF:29:TYR:O	1.99	0.46
5:AF:43:LEU:HD11	5:AF:68:VAL:CG2	2.46	0.46
6:AG:198:VAL:HG23	6:AG:199:ASN:N	2.20	0.46
7:AH:59:GLY:O	7:AH:62:ALA:HB3	2.15	0.46
7:AH:61:TYR:O	7:AH:62:ALA:C	2.54	0.46
8:AI:50:TYR:CD1	20:AU:81:PHE:CZ	3.04	0.46
8:AI:79:LEU:C	8:AI:81:ILE:N	2.69	0.46
9:AJ:125:MET:O	9:AJ:127:ALA:N	2.49	0.46
9:AJ:134:ALA:O	9:AJ:135:VAL:C	2.54	0.46
10:AK:25:ASP:N	10:AK:25:ASP:OD1	2.48	0.46
11:AL:17:VAL:HG13	11:AL:63:ILE:CG2	2.46	0.46
12:AM:57:LYS:O	12:AM:58:ASP:OD2	2.34	0.46
13:AN:42:TRP:N	13:AN:71:LYS:HE2	2.23	0.46
14:AO:84:LEU:O	14:AO:101:VAL:CG2	2.64	0.46
14:AO:27:LEU:HG	14:AO:28:LYS:N	2.31	0.46
14:AO:57:LYS:HG2	14:AO:67:THR:CG2	2.40	0.46
14:AO:62:SER:OG	14:AO:64:TYR:HB2	2.16	0.46
15:AP:52:GLU:HB3	15:AP:55:ARG:CZ	2.45	0.46
15:AP:67:GLU:CD	15:AP:68:GLY:N	2.69	0.46
17:AR:18:PHE:C	17:AR:20:GLY:H	2.18	0.46
19:AT:20:THR:O	19:AT:20:THR:OG1	2.34	0.46
19:AT:75:ARG:CG	19:AT:76:LEU:N	2.75	0.46
22:AW:40:ALA:C	22:AW:42:GLN:N	2.67	0.46
23:AX:8:THR:HA	23:AX:21:TYR:CD1	2.51	0.46
24:BA:2230:G:O2'	50:B3:40:HIS:O	2.20	0.46
52:B5:38:LYS:HB3	52:B5:39:TYR:H	1.34	0.46
54:B7:49:VAL:O	54:B7:53:PRO:HD3	2.15	0.46
24:BA:1012:U:N3	34:BM:28:THR:HG21	2.30	0.46
24:BA:1057:A:N7	24:BA:1085:A:C2	2.84	0.46
24:BA:1148:A:N1	24:BA:1149:G:C6	2.84	0.46
24:BA:1159:U:H2'	24:BA:1160:G:C8	2.50	0.46
24:BA:119:A:O2'	24:BA:120:U:O5'	2.34	0.46
24:BA:1324:G:O2'	24:BA:1325:G:OP1	2.34	0.46
24:BA:1326:U:C2'	24:BA:1327:C:C5'	2.69	0.46
24:BA:1286:A:C4	24:BA:1329:U:C4	3.04	0.46
24:BA:1433:U:O2	24:BA:1561:G:C2	2.68	0.46
24:BA:1349:A:C2	24:BA:1598:C:N3	2.84	0.46
24:BA:1617:C:C2'	24:BA:1617:C:O2	2.61	0.46
24:BA:1655:A:C2	24:BA:1656:C:H1'	2.51	0.46
24:BA:1699:G:N9	24:BA:1763:G:N2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1784:A:N3	24:BA:1785:A:C5	2.84	0.46
24:BA:1835:G:H2'	24:BA:1836:C:H5'	1.97	0.46
24:BA:1839:G:O6	24:BA:1927:A:N1	2.48	0.46
24:BA:1993:U:C5	24:BA:1994:C:C5	3.04	0.46
24:BA:1998:G:C5	24:BA:1999:C:C5	3.04	0.46
24:BA:2022:U:C5'	24:BA:2023:G:OP2	2.64	0.46
24:BA:2070:G:C2	24:BA:2442:C:C2	3.04	0.46
24:BA:220:G:O2'	24:BA:233:A:H2	1.98	0.46
24:BA:220:G:H21	24:BA:221:A:N6	2.14	0.46
24:BA:2227:A:N1	24:BA:2228:G:C6	2.84	0.46
24:BA:2384:G:O2'	24:BA:2385:C:OP1	2.31	0.46
24:BA:2405:G:O5'	24:BA:2405:G:C8	2.69	0.46
24:BA:2533:A:H2'	24:BA:2534:A:H8	1.78	0.46
24:BA:258:G:O5'	24:BA:258:G:C8	2.65	0.46
24:BA:262:A:O2'	24:BA:263:C:P	2.74	0.46
24:BA:2634:G:C2	24:BA:2635:C:C5	3.04	0.46
24:BA:2658:C:N3	24:BA:2664:G:N2	2.64	0.46
24:BA:2711:A:H3'	24:BA:2714:G:O4'	2.16	0.46
24:BA:2752:C:C2'	24:BA:2753:A:H5'	2.46	0.46
24:BA:2840:C:O2'	38:BQ:91:GLN:NE2	2.49	0.46
24:BA:402:A:C2	24:BA:403:U:C6	3.04	0.46
24:BA:427:U:C2'	24:BA:428:A:O4'	2.64	0.46
24:BA:457:A:O4'	24:BA:459:U:O2	2.33	0.46
24:BA:488:G:C8	24:BA:488:G:C3'	2.99	0.46
24:BA:572:A:H2'	24:BA:573:G:H1'	1.97	0.46
24:BA:612:G:H21	24:BA:617:G:H1	1.64	0.46
24:BA:733:G:C6	24:BA:761:A:C5	3.04	0.46
24:BA:762:U:O4'	24:BA:763:G:C2	2.68	0.46
24:BA:768:G:C4	24:BA:769:G:C8	3.04	0.46
24:BA:826:U:C4	24:BA:828:U:H6	2.34	0.46
24:BA:832:G:OP2	36:BO:35:HIS:CD2	2.69	0.46
24:BA:878:A:H2'	24:BA:879:G:O5'	2.16	0.46
24:BA:936:C:H2'	24:BA:937:U:H6	1.81	0.46
24:BA:943:U:C2'	24:BA:944:G:OP1	2.64	0.46
24:BA:99:U:H3	45:BX:106:LEU:CD2	2.16	0.46
24:BA:9:U:C2'	24:BA:10:G:O5'	2.64	0.46
25:BB:113:C:C1'	39:BR:45:GLY:O	2.64	0.46
25:BB:27:C:N4	25:BB:56:G:C2	2.83	0.46
27:BD:12:SER:HB2	27:BD:14:ARG:NH2	2.31	0.46
27:BD:244:ARG:CA	27:BD:252:TRP:NE1	2.73	0.46
30:BG:172:LEU:O	30:BG:176:LEU:CB	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:23:PHE:O	30:BG:24:GLY:C	2.54	0.46
30:BG:77:ILE:HG13	30:BG:77:ILE:O	2.15	0.46
31:BH:103:LEU:CB	31:BH:115:VAL:H	2.29	0.46
31:BH:88:LEU:HD21	31:BH:129:THR:CG2	2.44	0.46
32:BK:28:ASN:HB2	32:BK:29:TYR:CE1	2.51	0.46
33:BL:108:ALA:C	33:BL:112:MET:HG2	2.36	0.46
33:BL:121:GLU:O	33:BL:125:ARG:HB2	2.16	0.46
33:BL:30:HIS:O	33:BL:30:HIS:ND1	2.40	0.46
34:BM:52:VAL:O	34:BM:52:VAL:HG13	2.15	0.46
24:BA:2780:G:N2	34:BM:97:ARG:NH2	2.64	0.46
35:BN:113:LYS:HA	35:BN:113:LYS:HD2	1.71	0.46
35:BN:1:MET:HB3	35:BN:66:LYS:HB3	1.96	0.46
36:BO:88:LEU:CG	36:BO:124:LYS:CE	2.81	0.46
37:BP:124:LYS:HZ3	37:BP:125:LEU:HG	1.80	0.46
37:BP:48:GLU:C	37:BP:51:ARG:HG2	2.37	0.46
24:BA:1277:G:H21	38:BQ:23:ASN:HD21	1.64	0.46
38:BQ:44:LEU:HD13	38:BQ:48:VAL:CG2	2.46	0.46
40:BS:34:VAL:HA	40:BS:85:LYS:HA	1.98	0.46
40:BS:34:VAL:HB	40:BS:36:GLU:HG3	1.98	0.46
40:BS:68:TYR:CD2	40:BS:70:VAL:HG22	2.51	0.46
41:BT:63:VAL:HA	41:BT:66:ASN:HB2	1.98	0.46
43:BV:27:LYS:CG	43:BV:31:GLU:OE2	2.64	0.46
43:BV:43:GLY:CA	43:BV:46:PHE:HD1	2.29	0.46
45:BX:88:LYS:C	45:BX:91:GLU:HB2	2.36	0.46
47:BZ:28:GLY:C	47:BZ:66:VAL:HG22	2.36	0.46
47:BZ:83:PRO:O	47:BZ:84:LEU:C	2.53	0.46
32:BK:82:ARG:O	32:BK:83:ALA:CB	2.61	0.46
24:BA:2112:G:C5'	24:BA:2113:U:OP2	2.51	0.46
26:BC:113:VAL:CG1	26:BC:138:PRO:HG3	2.46	0.46
26:BC:56:GLN:O	26:BC:58:VAL:N	2.46	0.46
26:BC:68:LEU:CD2	26:BC:69:GLY:H	2.26	0.46
26:BC:75:LEU:HD11	26:BC:99:ILE:HD12	1.98	0.46
26:BC:36:LYS:O	26:BC:37:PHE:CB	2.64	0.46
1:AA:1074:G:C5	1:AA:1075:C:C6	3.04	0.45
1:AA:1138:G:N1	1:AA:1140:C:C5	2.84	0.45
1:AA:1158:C:C3'	1:AA:1158:C:O2	2.64	0.45
1:AA:1320:C:C2'	1:AA:1320:C:O2	2.61	0.45
1:AA:1347:G:H22	1:AA:1373:G:C3'	2.26	0.45
1:AA:1415:G:C4	1:AA:1416:G:C8	3.04	0.45
1:AA:1465:C:N4	1:AA:1466:C:C4	2.84	0.45
1:AA:1479:C:O2'	1:AA:1480:G:C5'	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:A:H2'	1:AA:1484:C:O5'	2.16	0.45
1:AA:1487:G:C2'	1:AA:1488:G:O5'	2.65	0.45
1:AA:1487:G:C2	1:AA:1488:G:C8	3.04	0.45
1:AA:1507:A:H2'	1:AA:1508:G:C5'	2.45	0.45
1:AA:186(A):C:C2'	1:AA:186(B):C:H5'	2.45	0.45
1:AA:186(D):C:O2'	1:AA:186(E):C:C5'	2.64	0.45
1:AA:259:G:C2	1:AA:260:G:C4	3.04	0.45
1:AA:261:U:H5	22:AW:79:ARG:NH1	2.15	0.45
1:AA:420:U:H2'	1:AA:422:C:C5	2.51	0.45
1:AA:51:A:N1	1:AA:116:A:C4	2.84	0.45
1:AA:126:G:H4'	1:AA:634:C:O2'	2.17	0.45
1:AA:73:G:C4	1:AA:74:C:C5	3.04	0.45
1:AA:767:A:C2'	1:AA:768:A:H5'	2.47	0.45
1:AA:817:C:C6	1:AA:819:A:H4'	2.52	0.45
1:AA:858:G:O5'	1:AA:858:G:H8	1.99	0.45
1:AA:922:G:H5''	7:AH:20:GLN:NE2	2.27	0.45
2:AC:13:C:H2'	2:AC:13:C:O2	2.16	0.45
2:AC:22:G:O2'	2:AC:23:C:H5'	2.16	0.45
2:AC:19:G:C4	2:AC:57:A:C2	3.04	0.45
3:AD:6:G:HO2'	3:AD:7:G:C5'	2.28	0.45
4:AE:153:ARG:NE	4:AE:153:ARG:O	2.49	0.45
4:AE:72:GLY:CA	4:AE:165:VAL:CG1	2.91	0.45
5:AF:186:PHE:CD1	5:AF:187:ALA:N	2.83	0.45
7:AH:107:ARG:O	7:AH:108:ALA:C	2.52	0.45
7:AH:75:THR:HB	7:AH:118:ILE:HG12	1.98	0.45
8:AI:50:TYR:CE2	20:AU:77:GLY:CA	2.99	0.45
10:AK:10:LEU:HA	10:AK:83:ILE:HD11	1.98	0.45
13:AN:80:VAL:HG13	13:AN:81:ASP:N	2.31	0.45
14:AO:79:GLU:HB2	14:AO:80:HIS:ND1	2.30	0.45
15:AP:24:GLY:O	15:AP:29:ARG:CD	2.58	0.45
15:AP:54:VAL:O	15:AP:58:GLU:HG3	2.15	0.45
16:AQ:9:LYS:HD3	16:AQ:10:ALA:CA	2.46	0.45
17:AR:64:ARG:O	17:AR:67:LEU:HG	2.16	0.45
19:AT:19:VAL:HG21	19:AT:46:ASP:CB	2.46	0.45
19:AT:25:ARG:HH21	19:AT:40:LYS:HD2	1.82	0.45
20:AU:53:ARG:HA	20:AU:63:GLN:HE22	1.80	0.45
21:AV:58:VAL:O	21:AV:58:VAL:HG23	2.16	0.45
21:AV:45:VAL:HG13	21:AV:64:GLU:CA	2.46	0.45
1:AA:1319:A:C4'	21:AV:70:LYS:NZ	2.76	0.45
22:AW:14:LYS:O	22:AW:15:ARG:C	2.53	0.45
22:AW:40:ALA:HB2	22:AW:55:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:42:GLN:HA	22:AW:42:GLN:NE2	2.31	0.45
48:B1:23:LYS:HB3	48:B1:52:ILE:HD12	1.98	0.45
49:B2:5:LYS:HD2	49:B2:5:LYS:O	2.16	0.45
53:B6:12:ARG:O	53:B6:13:ALA:C	2.54	0.45
53:B6:1:MET:HE2	53:B6:1:MET:HA	1.97	0.45
54:B7:30:ARG:HH22	54:B7:43:GLN:N	2.14	0.45
24:BA:1020:A:H5''	24:BA:1021:A:OP1	2.16	0.45
24:BA:1110:G:C3'	24:BA:1111:A:C8	3.00	0.45
24:BA:1115:G:N3	24:BA:1115:G:C2'	2.79	0.45
24:BA:1186:G:H8	24:BA:1186:G:H3'	1.81	0.45
24:BA:1241:A:OP2	24:BA:1241:A:N9	2.44	0.45
24:BA:1314:C:P	24:BA:1332:G:C5'	3.04	0.45
24:BA:1451:C:C5'	24:BA:1453:A:OP2	2.64	0.45
24:BA:1475:G:C8	24:BA:1517:G:N2	2.84	0.45
24:BA:1520:U:C6	24:BA:1520:U:C3'	2.99	0.45
24:BA:1525:G:N3	24:BA:1526:G:C8	2.83	0.45
24:BA:1560:G:H2'	24:BA:1561:G:O5'	2.16	0.45
24:BA:1618:A:C2'	24:BA:1619:G:OP1	2.63	0.45
24:BA:1646:C:H5''	24:BA:1647:G:C5'	2.45	0.45
24:BA:1728:G:C2	24:BA:1729:A:C5	3.04	0.45
24:BA:1754:C:H3'	24:BA:1755:A:H8	1.81	0.45
24:BA:1756:G:OP1	24:BA:1756:G:H3'	2.16	0.45
24:BA:1776:G:C2	24:BA:1777:U:C4	3.04	0.45
24:BA:1787:A:H8	24:BA:1787:A:O5'	1.99	0.45
24:BA:1790:C:O2	24:BA:1791:A:C5	2.69	0.45
24:BA:1821:A:N6	24:BA:1822:G:O6	2.48	0.45
24:BA:1927:A:C6	24:BA:1928:A:N1	2.84	0.45
24:BA:1932:A:C5	24:BA:1933:G:N7	2.84	0.45
24:BA:1936:A:C2	24:BA:1945:G:C5	3.04	0.45
24:BA:2074:U:N3	24:BA:2075:U:C5	2.79	0.45
24:BA:228:A:H8	24:BA:229:A:C4'	2.27	0.45
24:BA:2329:G:C8	24:BA:2329:G:C3'	2.99	0.45
24:BA:2335:A:C8	24:BA:2337:G:C6	3.04	0.45
24:BA:2588:G:N1	24:BA:2607:G:C6	2.84	0.45
24:BA:270(A):A:H2'	24:BA:366:C:O2'	2.16	0.45
24:BA:2749:A:N3	24:BA:2757:A:N1	2.63	0.45
24:BA:2849:U:C2'	24:BA:2850:A:OP2	2.64	0.45
24:BA:2876:G:C2	24:BA:2877:G:C5	3.05	0.45
24:BA:2896:C:H2'	24:BA:2897:U:O5'	2.16	0.45
24:BA:308:G:N7	24:BA:501:A:N3	2.64	0.45
24:BA:362:U:H5''	24:BA:363:G:OP2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:35:G:C6	24:BA:36:G:N7	2.84	0.45
24:BA:491:G:N3	24:BA:492:A:C1'	2.79	0.45
24:BA:49:A:N6	24:BA:176:G:C6	2.83	0.45
24:BA:4:C:H2'	24:BA:5:A:H8	1.81	0.45
24:BA:534:U:O3'	41:BT:49:HIS:HD2	1.99	0.45
24:BA:566:U:C2'	24:BA:567:A:C8	2.96	0.45
24:BA:601:C:O2'	24:BA:604:G:H5''	2.16	0.45
24:BA:689:A:C4	24:BA:690:G:C8	3.04	0.45
24:BA:695:G:N3	24:BA:696:G:C8	2.84	0.45
24:BA:811:U:H5	36:BO:24:GLY:HA3	1.81	0.45
24:BA:96:G:P	48:B1:43:HIS:NE2	2.89	0.45
25:BB:75:G:C5	25:BB:76:G:C2	3.05	0.45
27:BD:159:ALA:HB1	27:BD:198:ASN:C	2.35	0.45
27:BD:242:ARG:O	27:BD:244:ARG:N	2.49	0.45
27:BD:40:THR:HG21	27:BD:43:ARG:HE	1.80	0.45
27:BD:76:PRO:HB3	27:BD:118:VAL:HG21	1.98	0.45
27:BD:7:LYS:HZ2	27:BD:91:ARG:CZ	2.28	0.45
24:BA:2680:C:H5''	28:BE:190:GLY:H	1.81	0.45
28:BE:64:LYS:HA	28:BE:67:PHE:CB	2.45	0.45
28:BE:92:THR:HG22	28:BE:93:VAL:N	2.30	0.45
29:BF:26:ALA:C	29:BF:112:MET:HG3	2.36	0.45
29:BF:155:LEU:HB3	29:BF:157:VAL:CG1	2.45	0.45
30:BG:120:LEU:CD2	30:BG:181:ARG:HH21	2.26	0.45
30:BG:27:ASN:CG	30:BG:29:TRP:CZ2	2.90	0.45
30:BG:36:LYS:HB2	30:BG:95:ARG:HA	1.99	0.45
31:BH:12:PRO:O	31:BH:15:VAL:HG12	2.16	0.45
31:BH:8:PRO:CA	31:BH:51:ARG:NH2	2.79	0.45
32:BK:6:LEU:N	32:BK:8:PRO:HD2	2.31	0.45
33:BL:81:ALA:HB1	33:BL:107:ILE:CD1	2.44	0.45
33:BL:52:ILE:HG22	33:BL:54:PRO:HD3	1.98	0.45
33:BL:56:GLU:HB3	33:BL:67:PHE:HD2	1.78	0.45
34:BM:15:LEU:HD21	34:BM:137:LYS:HB3	1.97	0.45
35:BN:11:ALA:CB	35:BN:97:ARG:CZ	2.88	0.45
35:BN:13:ASN:OD1	35:BN:52:VAL:HG12	2.15	0.45
35:BN:5:GLN:O	35:BN:7:TYR:CE1	2.69	0.45
24:BA:636:G:O6	36:BO:111:ARG:CZ	2.64	0.45
24:BA:587:C:N4	36:BO:30:THR:HG1	2.15	0.45
36:BO:63:PRO:HB2	36:BO:64:LYS:CE	2.35	0.45
36:BO:97:PRO:O	36:BO:98:GLU:O	2.34	0.45
37:BP:119:ARG:CD	37:BP:120:ILE:HG13	2.46	0.45
38:BQ:34:ILE:N	38:BQ:113:LEU:CD2	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:95:HIS:CE1	39:BR:96:GLY:N	2.85	0.45
40:BS:65:LYS:CE	40:BS:75:ILE:HD13	2.46	0.45
41:BT:67:ALA:C	41:BT:71:GLN:NE2	2.70	0.45
42:BU:4:ILE:HA	42:BU:12:TYR:CD2	2.51	0.45
42:BU:56:SER:O	42:BU:57:VAL:HG22	2.16	0.45
43:BV:10:VAL:O	43:BV:12:ILE:CD1	2.64	0.45
46:BY:42:VAL:N	46:BY:45:ASP:OD2	2.49	0.45
46:BY:92:SER:OG	46:BY:93:ASP:N	2.40	0.45
32:BK:75:LEU:C	32:BK:141:LYS:HE2	2.36	0.45
3:AD:18:G:H1'	3:AD:58:A:C1'	2.47	0.45
3:AD:17:U:C4	3:AD:19:G:C8	3.04	0.45
24:BA:2132:U:C2	24:BA:2134:A:C6	3.04	0.45
24:BA:2152:G:C6	24:BA:2153:G:O6	2.69	0.45
26:BC:97:GLU:OE1	26:BC:122:ALA:HB2	2.15	0.45
26:BC:41:VAL:CG1	26:BC:42:GLU:H	2.29	0.45
26:BC:62:VAL:HG22	26:BC:64:LEU:HD23	1.97	0.45
1:AA:1026:G:N7	1:AA:1027:C:H5	2.11	0.45
1:AA:748:C:H1'	1:AA:749:C:C5	2.51	0.45
25:BB:117:G:C2	25:BB:118:G:N9	2.85	0.45
1:AA:343:U:H2'	1:AA:345:C:C5	2.47	0.45
40:BS:40:THR:O	40:BS:41:ARG:C	2.54	0.45
25:BB:20:C:O2'	25:BB:21:G:H5'	2.16	0.45
33:BL:2:LYS:O	33:BL:3:LYS:HB2	2.13	0.45
1:AA:1013:G:H3'	1:AA:1013:G:C8	2.51	0.45
1:AA:1077:G:H1'	1:AA:1081:G:H22	1.80	0.45
1:AA:1086:U:H3'	1:AA:1086:U:OP2	2.16	0.45
1:AA:1072:G:C6	1:AA:1104:G:N1	2.85	0.45
1:AA:1228:C:OP1	15:AP:115:LYS:CB	2.64	0.45
1:AA:1265:G:O6	1:AA:1266:G:C2	2.69	0.45
1:AA:126:G:N2	1:AA:127:G:H1'	2.32	0.45
1:AA:1272:G:H2'	1:AA:1273:G:H8	1.80	0.45
1:AA:12:U:N3	1:AA:13:U:O4	2.49	0.45
1:AA:1371:G:H2'	1:AA:1372:U:O5'	2.17	0.45
1:AA:1373:G:H4'	9:AJ:36:LYS:HZ3	1.80	0.45
1:AA:306:G:C2'	1:AA:307:C:C6	2.93	0.45
1:AA:433:C:H6	1:AA:433:C:O5'	1.99	0.45
1:AA:557:G:H2'	1:AA:558:G:C1'	2.46	0.45
1:AA:609:A:H2'	1:AA:610:G:C5'	2.46	0.45
1:AA:64:G:C2	1:AA:67:C:N4	2.84	0.45
1:AA:650:G:C2	1:AA:651:C:C6	3.05	0.45
1:AA:666:G:C4	1:AA:741:G:C2	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:752:G:O4'	1:AA:752:G:P	2.75	0.45
1:AA:965:A:O2'	1:AA:966:G:O5'	2.22	0.45
1:AA:983:A:N1	1:AA:984:C:C5	2.84	0.45
2:AC:35:A:C2	2:AC:36:U:C6	3.04	0.45
4:AE:101:MET:CG	4:AE:108:ILE:HG21	2.47	0.45
4:AE:102:LEU:HD23	4:AE:176:GLU:HB2	1.97	0.45
4:AE:168:THR:CB	4:AE:191:ASP:O	2.64	0.45
4:AE:168:THR:CB	4:AE:192:SER:HA	2.45	0.45
4:AE:193:ASP:OD2	4:AE:196:LEU:HG	2.17	0.45
4:AE:59:GLU:HB3	4:AE:221:LEU:CD2	2.29	0.45
5:AF:119:ARG:CG	5:AF:120:VAL:N	2.77	0.45
5:AF:24:ALA:CB	5:AF:28:GLN:OE1	2.64	0.45
7:AH:133:TYR:HA	7:AH:133:TYR:HD2	1.60	0.45
8:AI:30:LEU:HB3	8:AI:35:ALA:CB	2.36	0.45
9:AJ:42:ILE:HG22	9:AJ:120:ILE:HD12	1.96	0.45
9:AJ:44:TYR:O	9:AJ:45:ASP:C	2.54	0.45
10:AK:16:ALA:O	10:AK:17:THR:C	2.54	0.45
10:AK:36:LEU:O	10:AK:45:ILE:HD13	2.16	0.45
1:AA:1343:G:HO2'	11:AL:121:ARG:HA	1.81	0.45
15:AP:20:THR:HG22	15:AP:20:THR:O	2.16	0.45
15:AP:31:LYS:O	15:AP:35:GLU:HB2	2.16	0.45
16:AQ:38:GLY:O	16:AQ:39:LEU:HD23	2.16	0.45
18:AS:35:LYS:HD2	18:AS:36:ILE:H	1.77	0.45
18:AS:74:LEU:HD23	18:AS:74:LEU:HA	1.58	0.45
18:AS:75:ARG:HB2	18:AS:80:PHE:CD1	2.52	0.45
20:AU:79:LEU:N	20:AU:79:LEU:HD12	2.32	0.45
21:AV:25:LYS:N	21:AV:25:LYS:HD2	2.31	0.45
22:AW:38:LYS:O	22:AW:39:LYS:C	2.54	0.45
22:AW:61:SER:O	22:AW:62:LEU:C	2.54	0.45
22:AW:61:SER:O	22:AW:65:LYS:HG2	2.16	0.45
23:AX:14:TRP:CZ3	23:AX:15:ARG:CZ	2.83	0.45
48:B1:19:LEU:O	48:B1:23:LYS:HG3	2.16	0.45
49:B2:9:VAL:CG2	49:B2:53:LEU:C	2.69	0.45
52:B5:17:LYS:HD3	52:B5:49:HIS:O	2.16	0.45
24:BA:459:U:P	53:B6:40:TRP:HA	2.46	0.45
24:BA:1309:G:O5'	53:B6:9:ARG:HG3	2.16	0.45
55:B8:15:LYS:HB2	55:B8:26:ILE:O	2.16	0.45
24:BA:1100:C:O2'	24:BA:1101:U:P	2.74	0.45
24:BA:1139:G:C8	24:BA:1139:G:C3'	2.99	0.45
24:BA:1273:U:O2'	24:BA:1275:A:OP1	2.30	0.45
24:BA:1360:A:H2'	24:BA:1361:G:C5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1392:A:C5	24:BA:1393:A:N6	2.84	0.45
24:BA:141:A:C2	24:BA:141(A):C:O4'	2.69	0.45
24:BA:1439:A:C2	24:BA:1553:A:C6	3.04	0.45
24:BA:1471:A:N6	24:BA:1473:G:N7	2.64	0.45
24:BA:1530:G:H3'	24:BA:1531:C:C6	2.51	0.45
24:BA:1807:G:C1'	24:BA:1811:G:N2	2.46	0.45
24:BA:1901:A:H4'	27:BD:244:ARG:HH12	1.80	0.45
24:BA:2008:C:O2'	24:BA:2009:G:H5'	2.16	0.45
24:BA:2283:C:C5	24:BA:2389:G:C4	3.04	0.45
24:BA:2286:A:N3	52:B5:27:LYS:HE3	2.31	0.45
24:BA:2376:A:H2'	24:BA:2377:A:C1'	2.46	0.45
24:BA:411:G:C1'	24:BA:2408:U:O4	2.56	0.45
24:BA:2521:C:N3	24:BA:2522:U:C6	2.83	0.45
24:BA:2528:U:O2	24:BA:2530:A:OP1	2.34	0.45
24:BA:2593:U:O2'	24:BA:2594:C:H5'	2.15	0.45
24:BA:2612:C:H2'	51:B4:4:HIS:ND1	2.31	0.45
24:BA:2644:G:N1	24:BA:2645:G:C2	2.85	0.45
24:BA:270(L):U:O2'	24:BA:270(M):U:P	2.74	0.45
24:BA:2740:A:C2'	24:BA:2741:A:C8	2.92	0.45
24:BA:2756:U:HO2'	24:BA:2757:A:H5''	1.74	0.45
24:BA:2757:A:N6	31:BH:63:SER:OG	2.49	0.45
24:BA:2628:C:C2	24:BA:2782:G:P	3.09	0.45
24:BA:2848:G:C8	40:BS:99:LEU:CG	2.99	0.45
24:BA:285:C:N3	24:BA:357:A:N1	2.64	0.45
24:BA:311:A:C6	24:BA:328:U:C4	3.04	0.45
24:BA:357:A:H2'	24:BA:358:U:C6	2.52	0.45
24:BA:372:G:OP2	24:BA:373:U:OP2	2.34	0.45
24:BA:396:G:C2'	24:BA:397:G:O5'	2.64	0.45
24:BA:462:C:N1	24:BA:468:G:N2	2.64	0.45
24:BA:462:C:C2	24:BA:468:G:C2	3.04	0.45
24:BA:499:U:H6	24:BA:500:G:O4'	1.99	0.45
24:BA:724:U:C2'	24:BA:725:G:C5'	2.94	0.45
24:BA:801:G:N7	29:BF:54:ARG:HG2	2.31	0.45
24:BA:813:U:C2	24:BA:814:C:C6	3.05	0.45
24:BA:824:A:H3'	24:BA:825:C:C5	2.51	0.45
24:BA:861:A:OP2	24:BA:862:G:OP2	2.34	0.45
24:BA:863:A:H2'	24:BA:864:G:H8	1.80	0.45
24:BA:91:A:C8	24:BA:92:G:N7	2.84	0.45
24:BA:923:C:H6	24:BA:923:C:O5'	1.99	0.45
24:BA:953:A:N1	24:BA:964:C:O2	2.50	0.45
25:BB:101:A:C2'	25:BB:102:G:H8	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:42:C:O2	25:BB:42:C:H2'	2.15	0.45
25:BB:96:G:C2	25:BB:97:G:C8	3.04	0.45
27:BD:92:ILE:HD12	27:BD:104:TYR:HB3	1.98	0.45
27:BD:107:ALA:O	27:BD:108:PRO:O	2.34	0.45
24:BA:2209:C:O2'	27:BD:150:LYS:HE2	2.17	0.45
27:BD:21:PHE:O	27:BD:205:VAL:HG22	2.17	0.45
27:BD:208:LYS:HB3	27:BD:211:ARG:CB	2.43	0.45
27:BD:224:ALA:HA	27:BD:233:HIS:CG	2.51	0.45
27:BD:69:ARG:C	27:BD:71:ASP:N	2.69	0.45
27:BD:97:TYR:O	27:BD:98:VAL:C	2.54	0.45
28:BE:171:GLU:H	28:BE:185:LYS:CD	2.29	0.45
29:BF:199:TRP:N	29:BF:199:TRP:CD1	2.84	0.45
24:BA:675:A:H4'	29:BF:67:GLN:NE2	2.31	0.45
30:BG:105:LYS:HA	30:BG:109:VAL:HG11	1.99	0.45
30:BG:36:LYS:HE3	30:BG:95:ARG:HE	1.82	0.45
30:BG:4:ASP:HA	30:BG:7:LEU:CD1	2.46	0.45
30:BG:59:GLU:O	30:BG:60:LEU:C	2.53	0.45
24:BA:2309:A:C5	30:BG:80:PHE:CZ	3.04	0.45
31:BH:117:PRO:HA	31:BH:118:PRO:HD2	1.90	0.45
31:BH:36:PRO:HD2	31:BH:71:LEU:HD21	1.98	0.45
31:BH:38:SER:OG	31:BH:39:PRO:HD2	2.16	0.45
33:BL:112:MET:CE	33:BL:119:ASP:N	2.78	0.45
34:BM:53:VAL:CG1	34:BM:123:TYR:HE2	2.28	0.45
35:BN:10:VAL:CG2	35:BN:12:ASP:OD1	2.64	0.45
36:BO:108:LYS:HG2	36:BO:109:GLY:N	2.31	0.45
36:BO:91:PHE:CD2	36:BO:96:THR:HG22	2.51	0.45
24:BA:1279:G:H4'	38:BQ:31:HIS:CD2	2.51	0.45
39:BR:49:VAL:HG11	39:BR:80:LEU:CG	2.45	0.45
39:BR:72:ALA:O	39:BR:75:GLU:HG2	2.15	0.45
40:BS:112:ARG:HB3	40:BS:113:LYS:H	1.52	0.45
40:BS:7:ILE:C	40:BS:11:GLU:OE1	2.55	0.45
40:BS:19:LEU:HG	40:BS:85:LYS:HZ1	1.82	0.45
40:BS:57:PHE:C	40:BS:61:PHE:CD2	2.90	0.45
40:BS:51:ARG:O	40:BS:66:VAL:HA	2.17	0.45
35:BN:72:PRO:CB	40:BS:84:GLN:NE2	2.77	0.45
41:BT:82:GLY:CA	41:BT:117:GLN:CD	2.81	0.45
41:BT:11:ARG:HE	41:BT:11:ARG:HB3	1.40	0.45
41:BT:13:LYS:NZ	41:BT:13:LYS:N	2.64	0.45
24:BA:445:C:H3'	41:BT:3:ARG:NE	2.31	0.45
41:BT:57:PHE:CD2	41:BT:61:TRP:NE1	2.83	0.45
42:BU:11:GLN:HE22	42:BU:24:LYS:HZ3	1.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:87:GLN:OE1	44:BW:87:GLN:HA	2.16	0.45
25:BB:75:G:C5'	46:BY:11:GLU:HG2	2.41	0.45
46:BY:29:TYR:CB	46:BY:34:ASN:ND2	2.79	0.45
32:BK:113:ARG:NH2	32:BK:132:PRO:HB3	2.31	0.45
3:AD:58:A:O2'	3:AD:59:U:P	2.74	0.45
26:BC:32:LEU:HD13	26:BC:220:PRO:HB2	1.97	0.45
26:BC:56:GLN:HA	26:BC:201:PRO:CG	2.46	0.45
5:AF:157:ILE:HD12	5:AF:164:ARG:HG3	1.97	0.45
14:AO:102:ARG:CZ	14:AO:109:GLY:C	2.85	0.45
7:AH:45:PHE:N	7:AH:45:PHE:CD2	2.74	0.45
1:AA:1013:G:H2'	1:AA:1015:A:OP2	2.16	0.45
1:AA:1053:G:N7	1:AA:1200:C:OP2	2.49	0.45
1:AA:1055:A:O2'	1:AA:1056:U:OP1	2.34	0.45
1:AA:1217:C:H2'	1:AA:1218:C:O4'	2.16	0.45
1:AA:1315:U:O2'	1:AA:1360:A:C2'	2.64	0.45
1:AA:1342:C:H4'	11:AL:125:TYR:H	1.82	0.45
1:AA:1353:G:N1	1:AA:1370:G:C2	2.84	0.45
1:AA:1369:C:C2'	1:AA:1370:G:O4'	2.65	0.45
1:AA:1443:G:HO2'	1:AA:1446:A:H4'	1.80	0.45
1:AA:1417:G:C6	1:AA:1482:G:C6	3.04	0.45
1:AA:174:C:O2'	1:AA:175:C:H5'	2.16	0.45
1:AA:373:A:H2'	1:AA:374:A:C8	2.42	0.45
1:AA:59:A:O2'	1:AA:388:G:C5'	2.65	0.45
1:AA:37:U:C5	1:AA:38:G:C8	3.05	0.45
1:AA:37:U:C2'	1:AA:38:G:H5'	2.46	0.45
1:AA:447:G:O5'	1:AA:447:G:H8	1.99	0.45
1:AA:440:A:N6	1:AA:494:U:C4	2.85	0.45
1:AA:568:G:C2	1:AA:569:C:C4	3.04	0.45
1:AA:621:A:C4	1:AA:622:A:N7	2.84	0.45
1:AA:641:U:O2	1:AA:641:U:C2'	2.62	0.45
1:AA:813:U:C5'	1:AA:814:A:OP2	2.65	0.45
1:AA:874:G:N2	1:AA:875:C:N1	2.64	0.45
1:AA:908:A:C2	1:AA:909:A:C5	3.04	0.45
1:AA:95:G:C2	1:AA:96:G:H1'	2.51	0.45
1:AA:976:G:H8	1:AA:976:G:H3'	1.82	0.45
2:AC:48:C:O4'	2:AC:48:C:OP2	2.34	0.45
3:AD:34:G:N3	3:AD:35:A:H5''	2.30	0.45
4:AE:114:ARG:HA	4:AE:117:GLU:OE2	2.15	0.45
4:AE:77:ALA:HB1	4:AE:211:ILE:HG21	1.98	0.45
4:AE:219:VAL:O	4:AE:222:ILE:HD12	2.17	0.45
5:AF:142:MET:O	5:AF:146:ALA:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:154:ASN:H	6:AG:154:ASN:ND2	2.15	0.45
6:AG:179:GLU:C	6:AG:181:MET:N	2.70	0.45
6:AG:58:LEU:HD13	6:AG:59:ARG:NH1	2.10	0.45
7:AH:150:ARG:HB3	7:AH:151:LEU:CD2	2.46	0.45
7:AH:53:LEU:O	7:AH:54:ALA:C	2.54	0.45
7:AH:84:PHE:HE2	7:AH:130:ASN:ND2	2.14	0.45
8:AI:18:GLN:O	8:AI:19:LEU:C	2.55	0.45
9:AJ:106:GLN:C	9:AJ:108:ALA:N	2.65	0.45
10:AK:114:THR:H	10:AK:119:LEU:CD2	2.29	0.45
11:AL:28:VAL:O	11:AL:29:ASN:C	2.54	0.45
11:AL:27:THR:HG21	11:AL:62:TYR:CE1	2.51	0.45
12:AM:3:LYS:CE	12:AM:77:PRO:CD	2.92	0.45
12:AM:79:ARG:CZ	12:AM:82:ILE:HD12	2.46	0.45
1:AA:691:G:N7	13:AN:26:ASN:CG	2.70	0.45
13:AN:39:PRO:O	13:AN:40:ILE:HG23	2.17	0.45
15:AP:26:GLY:H	15:AP:29:ARG:CB	2.27	0.45
16:AQ:36:PHE:C	16:AQ:36:PHE:CD1	2.89	0.45
16:AQ:39:LEU:CD1	16:AQ:44:LEU:HA	2.36	0.45
17:AR:6:GLU:CG	17:AR:7:GLU:H	2.06	0.45
1:AA:267:C:OP2	19:AT:67:LYS:HD3	2.17	0.45
22:AW:88:VAL:C	22:AW:92:LEU:HD12	2.36	0.45
52:B5:37:ARG:O	52:B5:38:LYS:CB	2.61	0.45
54:B7:36:LYS:HB3	54:B7:37:SER:H	1.52	0.45
24:BA:1109:C:C4	24:BA:1110:G:N1	2.85	0.45
24:BA:117:G:C6	24:BA:119:A:N1	2.85	0.45
24:BA:1227:A:H2'	24:BA:1228:G:H5''	1.97	0.45
24:BA:1234:U:O2'	24:BA:1235:G:C5'	2.64	0.45
24:BA:1277:G:C4	24:BA:1278:A:C8	3.04	0.45
24:BA:1299:G:C5'	24:BA:1301:A:C1'	2.92	0.45
24:BA:1328:G:H2'	24:BA:1330:C:N4	2.31	0.45
24:BA:1447:G:C6	24:BA:1448:G:N7	2.84	0.45
24:BA:1537:C:C5	24:BA:1538:G:O4'	2.68	0.45
24:BA:1351:C:O2'	24:BA:1571:A:C8	2.68	0.45
24:BA:1595:G:H2'	24:BA:1596:A:O5'	2.16	0.45
24:BA:1614:A:N3	24:BA:1614:A:C3'	2.79	0.45
24:BA:1626:G:C2	24:BA:1634:A:N3	2.84	0.45
24:BA:1327:C:N4	24:BA:1647:G:N2	2.64	0.45
24:BA:1773:A:C5	24:BA:1774:C:N3	2.85	0.45
24:BA:1799:G:O2'	24:BA:1800:C:O5'	2.33	0.45
24:BA:1987:G:H2'	24:BA:1988:C:H6	1.79	0.45
24:BA:1990:C:C4	24:BA:1991:U:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2020:A:C2	24:BA:2035:G:C6	3.05	0.45
24:BA:215:G:O2'	24:BA:216:A:P	2.73	0.45
24:BA:225:A:N6	24:BA:226:G:C6	2.84	0.45
24:BA:2282:G:N2	24:BA:2425:A:C4	2.84	0.45
24:BA:2283:C:C2	24:BA:2389:G:N2	2.84	0.45
24:BA:2308:G:P	24:BA:2308:G:H8	2.39	0.45
24:BA:2355:C:OP1	47:BZ:25:ARG:NH2	2.50	0.45
24:BA:2357:U:H2'	24:BA:2358:G:O5'	2.15	0.45
24:BA:241:A:C8	24:BA:243:U:N3	2.84	0.45
24:BA:242:G:O2'	24:BA:243:U:C5	2.70	0.45
24:BA:2459:A:C2	24:BA:2460:U:O2	2.68	0.45
24:BA:2466:C:C4	24:BA:2485:G:C2	3.04	0.45
24:BA:2501:C:H5''	24:BA:2503:A:C1'	2.46	0.45
24:BA:2521:C:O2	24:BA:2521:C:H2'	2.15	0.45
24:BA:2589:A:OP1	27:BD:226:MET:CG	2.65	0.45
24:BA:2641:G:C2	24:BA:2774:C:C2	3.04	0.45
24:BA:1665:A:N7	24:BA:2726:U:O4	2.49	0.45
24:BA:2792:G:N2	24:BA:2793:G:C5	2.84	0.45
24:BA:2801:A:H2	24:BA:2895:U:C1'	2.25	0.45
24:BA:2846:G:H3'	24:BA:2847:U:C6	2.52	0.45
24:BA:291:C:C4	24:BA:292:C:C5	3.05	0.45
24:BA:293:U:C3'	24:BA:293:U:H6	2.15	0.45
24:BA:323:G:C5'	24:BA:324:A:OP1	2.50	0.45
24:BA:327:G:N2	24:BA:328:U:O2	2.50	0.45
24:BA:378:C:C2'	24:BA:379:G:O5'	2.65	0.45
24:BA:476:G:N1	24:BA:479:A:OP2	2.48	0.45
24:BA:487:C:N4	24:BA:488:G:C2	2.84	0.45
24:BA:510:C:P	24:BA:512:G:N1	2.76	0.45
24:BA:531:C:C2'	24:BA:531:C:O2	2.44	0.45
24:BA:578:A:C3'	24:BA:579:G:H5''	2.46	0.45
24:BA:684:G:O6	24:BA:774:A:N9	2.49	0.45
24:BA:687:C:O2	24:BA:787:U:C3'	2.63	0.45
24:BA:763:G:C2	24:BA:765:G:N3	2.84	0.45
24:BA:798:G:OP1	29:BF:58:ALA:O	2.34	0.45
24:BA:830:G:O6	24:BA:2446:G:H1'	2.16	0.45
24:BA:910:A:H1'	24:BA:2265:U:H5'	1.97	0.45
24:BA:938:G:N2	24:BA:939:G:C5	2.84	0.45
24:BA:940:G:H2'	24:BA:941:A:C5'	2.47	0.45
24:BA:977:G:C2'	24:BA:978:G:H5'	2.45	0.45
25:BB:6:C:C4	25:BB:115:G:N2	2.85	0.45
25:BB:73:A:C2	25:BB:74:U:N1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:15:PHE:C	27:BD:17:THR:N	2.70	0.45
27:BD:57:GLY:H	27:BD:217:ARG:HD3	1.77	0.45
27:BD:57:GLY:N	27:BD:217:ARG:HD3	2.31	0.45
28:BE:7:VAL:O	28:BE:193:GLY:CA	2.65	0.45
28:BE:196:VAL:C	28:BE:197:ILE:CG1	2.85	0.45
28:BE:47:VAL:HA	28:BE:79:ARG:CB	2.41	0.45
28:BE:6:GLY:O	28:BE:26:ILE:HG22	2.17	0.45
28:BE:49:LEU:CD1	28:BE:76:ARG:O	2.59	0.45
28:BE:91:VAL:H	28:BE:95:ILE:CD1	2.29	0.45
29:BF:110:LEU:HD23	29:BF:114:VAL:HG23	1.99	0.45
29:BF:122:LYS:HA	29:BF:122:LYS:HZ2	1.76	0.45
29:BF:9:ILE:CG1	29:BF:122:LYS:HG3	2.46	0.45
30:BG:125:PHE:CA	30:BG:131:TYR:O	2.64	0.45
30:BG:56:ALA:O	30:BG:59:GLU:CG	2.61	0.45
30:BG:57:ALA:CA	30:BG:67:LYS:HB2	2.47	0.45
31:BH:11:VAL:HB	31:BH:50:VAL:HG11	1.95	0.45
31:BH:65:HIS:O	31:BH:69:ARG:CG	2.52	0.45
32:BK:25:TYR:HD2	32:BK:25:TYR:H	1.64	0.45
32:BK:2:LYS:NZ	32:BK:44:LEU:CD1	2.76	0.45
33:BL:72:PRO:HG2	33:BL:111:LYS:CE	2.47	0.45
24:BA:6:A:C4'	34:BM:132:ALA:O	2.58	0.45
34:BM:55:VAL:HG11	34:BM:127:ASP:CA	2.43	0.45
34:BM:23:LEU:HD23	34:BM:60:ILE:HG21	1.96	0.45
35:BN:106:LEU:HD13	40:BS:39:ARG:HH21	1.82	0.45
35:BN:79:PHE:CB	40:BS:73:GLU:CG	2.91	0.45
35:BN:94:ARG:HG2	35:BN:96:THR:O	2.16	0.45
36:BO:78:PRO:HA	36:BO:81:GLN:CB	2.46	0.45
36:BO:80:TYR:CZ	36:BO:85:LEU:HD11	2.51	0.45
37:BP:131:ILE:CG2	37:BP:132:VAL:N	2.79	0.45
37:BP:32:TYR:CD1	37:BP:106:VAL:HA	2.52	0.45
37:BP:78:PRO:O	37:BP:79:LEU:CD2	2.58	0.45
38:BQ:8:ARG:CD	38:BQ:10:LEU:HD11	2.46	0.45
39:BR:8:GLU:HA	39:BR:11:LYS:HB2	1.98	0.45
39:BR:74:ALA:HB1	39:BR:108:GLY:N	2.30	0.45
39:BR:75:GLU:HG2	39:BR:75:GLU:H	1.58	0.45
39:BR:78:LEU:C	39:BR:78:LEU:HD13	2.34	0.45
40:BS:109:GLU:O	40:BS:110:ILE:CB	2.63	0.45
40:BS:21:GLU:O	40:BS:23:ARG:N	2.49	0.45
40:BS:50:ILE:HG22	40:BS:68:TYR:N	2.31	0.45
41:BT:63:VAL:C	41:BT:65:ILE:N	2.68	0.45
42:BU:60:GLU:OE2	42:BU:101:GLY:HA3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:83:ARG:O	42:BU:83:ARG:HD3	2.15	0.45
42:BU:88:ARG:CB	42:BU:88:ARG:NH1	2.77	0.45
43:BV:86:LEU:CB	43:BV:87:PRO:CD	2.89	0.45
44:BW:21:PHE:CA	44:BW:25:LYS:O	2.61	0.45
45:BX:46:LYS:HB2	45:BX:57:GLN:CA	2.46	0.45
46:BY:7:ALA:C	46:BY:10:ARG:HH21	2.19	0.45
46:BY:94:GLU:O	46:BY:95:PRO:C	2.54	0.45
32:BK:97:ILE:C	32:BK:101:LEU:HD23	2.36	0.45
24:BA:2124:G:C6	24:BA:2173:A:N6	2.84	0.45
24:BA:2147:G:C6	24:BA:2148:G:H1'	2.50	0.45
24:BA:2165:G:H3'	24:BA:2166:G:C8	2.51	0.45
26:BC:104:LEU:HD13	26:BC:104:LEU:HA	1.76	0.45
26:BC:119:VAL:O	26:BC:122:ALA:HB3	2.16	0.45
26:BC:117:PRO:HA	26:BC:120:MET:CG	2.47	0.45
26:BC:5:LYS:C	26:BC:7:TYR:N	2.69	0.45
1:AA:1026:G:O6	1:AA:1036:G:C2	2.69	0.45
1:AA:1120:G:O5'	1:AA:1120:G:C8	2.69	0.45
24:BA:738:G:C5	24:BA:739:G:C2	3.05	0.45
1:AA:1082:G:C6	1:AA:1083:U:C5	3.04	0.45
1:AA:1140:C:N3	1:AA:1141:C:C5	2.84	0.45
1:AA:1146:A:C4	1:AA:1147:C:H6	2.35	0.45
1:AA:1202:G:C2'	1:AA:1203:C:O5'	2.64	0.45
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.49	0.45
1:AA:122:G:OP1	1:AA:122:G:H8	1.99	0.45
1:AA:1301:U:O2	1:AA:1301:U:C2'	2.63	0.45
1:AA:1325:C:O3'	23:AX:17:THR:HG21	2.17	0.45
1:AA:1498:U:H2'	1:AA:1499:A:C8	2.52	0.45
1:AA:1394:A:N6	1:AA:1500:A:O2'	2.49	0.45
1:AA:184:G:H4'	1:AA:224:C:C4'	2.46	0.45
1:AA:477:G:N2	1:AA:478:A:H1'	2.32	0.45
1:AA:445:G:C6	1:AA:490:G:N1	2.84	0.45
1:AA:516:U:C5	1:AA:517:G:C6	3.04	0.45
1:AA:56:U:C5	1:AA:352:C:N4	2.85	0.45
1:AA:590:C:O3'	10:AK:30:ARG:NH2	2.50	0.45
1:AA:652:U:H2'	1:AA:752:G:H1	1.82	0.45
1:AA:659:U:O2'	1:AA:660:G:C5'	2.63	0.45
1:AA:743:U:H2'	1:AA:744:C:C6	2.52	0.45
1:AA:754:C:O5'	17:AR:72:ARG:NH1	2.50	0.45
1:AA:931:C:H2'	1:AA:932:C:C5	2.51	0.45
1:AA:997:U:H2'	1:AA:998:G:C8	2.51	0.45
4:AE:133:LYS:O	4:AE:137:ARG:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:72:GLY:CA	4:AE:165:VAL:HG13	2.42	0.45
4:AE:170:GLU:HG3	4:AE:174:VAL:H	1.81	0.45
4:AE:16:HIS:CD2	4:AE:210:SER:HA	2.51	0.45
5:AF:131:ARG:HH12	7:AH:51:VAL:H	1.64	0.45
5:AF:190:ARG:O	5:AF:191:THR:C	2.55	0.45
6:AG:124:GLY:C	6:AG:132:ARG:HE	2.20	0.45
6:AG:148:VAL:O	6:AG:181:MET:CE	2.64	0.45
6:AG:180:GLY:O	6:AG:181:MET:O	2.35	0.45
1:AA:8:A:H4'	7:AH:102:ALA:HA	1.98	0.45
7:AH:112:LEU:O	7:AH:113:ALA:C	2.54	0.45
7:AH:11:ILE:HG22	7:AH:31:LEU:HD22	1.98	0.45
9:AJ:46:ALA:O	9:AJ:47:CYS:C	2.53	0.45
10:AK:74:PRO:HG2	10:AK:75:ARG:H	1.81	0.45
1:AA:1117:G:O5'	11:AL:104:ARG:NH1	2.49	0.45
11:AL:19:LEU:HD23	11:AL:20:ARG:H	1.81	0.45
11:AL:32:ASP:HB3	11:AL:35:GLU:OE2	2.17	0.45
5:AF:23:TYR:CG	12:AM:11:PHE:HB2	2.52	0.45
12:AM:11:PHE:HD2	12:AM:11:PHE:HA	1.65	0.45
12:AM:40:LEU:HD12	12:AM:71:LEU:CD2	2.47	0.45
12:AM:46:ARG:HD3	12:AM:64:GLU:CG	2.46	0.45
13:AN:85:ARG:HH11	13:AN:85:ARG:CG	2.28	0.45
14:AO:120:TYR:O	14:AO:121:GLY:C	2.55	0.45
15:AP:60:VAL:HG22	15:AP:64:TRP:HE3	1.82	0.45
1:AA:579:G:HO2'	17:AR:58:MET:CE	2.29	0.45
1:AA:1014:A:O3'	21:AV:14:HIS:CE1	2.70	0.45
21:AV:70:LYS:O	21:AV:73:GLU:HG3	2.17	0.45
50:B3:19:GLY:HA2	50:B3:32:TYR:OH	2.15	0.45
50:B3:17:GLY:CA	50:B3:33:VAL:HB	2.46	0.45
50:B3:40:HIS:CB	50:B3:41:PRO:CD	2.88	0.45
51:B4:19:ARG:C	51:B4:21:SER:N	2.68	0.45
43:BV:23:LEU:CD1	51:B4:26:THR:O	2.64	0.45
51:B4:4:HIS:CD2	51:B4:5:PRO:HB3	2.52	0.45
51:B4:35:GLU:CD	51:B4:51:TYR:CE2	2.90	0.45
54:B7:39:LYS:HB3	54:B7:39:LYS:HZ3	1.82	0.45
24:BA:1044:G:N2	24:BA:1111:A:C1'	2.79	0.45
24:BA:1068:G:N3	24:BA:1069:A:N6	2.63	0.45
24:BA:1072:C:H2'	24:BA:1093:G:C6	2.46	0.45
24:BA:108:U:HO2'	24:BA:109:G:C4'	2.28	0.45
24:BA:1213:A:C5	24:BA:1214:A:N7	2.85	0.45
24:BA:1248:G:O2'	24:BA:1249:U:P	2.75	0.45
24:BA:1264:G:C4'	24:BA:1265:A:H5''	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1312:U:C4	24:BA:1603:A:N6	2.84	0.45
24:BA:1381:G:O6	24:BA:1382:G:C6	2.69	0.45
24:BA:1389:G:C2	24:BA:1390:U:C4	3.05	0.45
24:BA:1411:C:N4	24:BA:1412:A:N6	2.64	0.45
24:BA:1491:G:N1	24:BA:1492:G:H1'	2.32	0.45
24:BA:1528:A:OP1	24:BA:1528:A:H4'	2.16	0.45
24:BA:1532:C:P	24:BA:1532:C:H3'	2.57	0.45
24:BA:1534:G:N1	24:BA:1538:G:C5	2.84	0.45
24:BA:1829:A:H3'	24:BA:1830:C:C6	2.49	0.45
24:BA:1919:A:C2	24:BA:1920:C:C2	3.04	0.45
24:BA:1955:U:C2'	24:BA:1956:U:OP1	2.65	0.45
24:BA:1660:C:N4	24:BA:2001:A:H61	2.14	0.45
24:BA:2046:G:P	51:B4:18:ALA:HB1	2.56	0.45
24:BA:2206:C:H2'	24:BA:2207:C:H6	1.81	0.45
24:BA:2239:G:H5'	24:BA:2240:C:P	2.54	0.45
24:BA:2242:G:C6	24:BA:2243:U:C4	3.04	0.45
24:BA:2305:A:O2'	30:BG:136:ARG:CA	2.52	0.45
24:BA:2361:A:C4	24:BA:2362:G:C8	3.04	0.45
24:BA:2413:G:C6	24:BA:2414:G:H1'	2.50	0.45
24:BA:2415:G:N1	24:BA:2416:C:C4	2.84	0.45
24:BA:2424:C:H5'	24:BA:2425:A:H5'	1.97	0.45
24:BA:2457:U:C4	24:BA:2458:G:N2	2.83	0.45
24:BA:2471:C:H2'	24:BA:2472:G:O5'	2.17	0.45
24:BA:2491:U:H3'	24:BA:2492:U:C5'	2.46	0.45
24:BA:2498:C:O2'	24:BA:2499:C:C5'	2.56	0.45
24:BA:270(V):G:C4	24:BA:270(W):G:N7	2.84	0.45
24:BA:270(Y):G:OP1	24:BA:270(Z):U:O2'	2.35	0.45
24:BA:272:G:N1	24:BA:273:G:C4	2.85	0.45
24:BA:2772:C:N3	24:BA:2773:C:C5	2.85	0.45
24:BA:457:A:N1	24:BA:470:A:H5'	2.31	0.45
24:BA:556:G:C2'	24:BA:557:U:O5'	2.63	0.45
24:BA:564:C:N4	24:BA:578:A:H61	2.14	0.45
24:BA:573:G:C2'	24:BA:574:C:H5''	2.46	0.45
24:BA:209:C:C4'	24:BA:681:G:H4'	2.47	0.45
24:BA:685:A:C3'	24:BA:686:G:H21	2.28	0.45
24:BA:735:A:N7	24:BA:736:C:C5	2.84	0.45
24:BA:774:A:O2'	24:BA:775:G:O5'	2.31	0.45
24:BA:784:A:N7	24:BA:792:G:C6	2.85	0.45
24:BA:824:A:H2'	24:BA:825:C:C6	2.52	0.45
24:BA:947:G:N3	24:BA:948:G:C8	2.85	0.45
25:BB:58:A:O5'	25:BB:58:A:H8	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:142:VAL:H	27:BD:163:ALA:HB3	1.81	0.45
27:BD:200:ASP:O	27:BD:203:ASN:HB2	2.17	0.45
27:BD:208:LYS:CE	27:BD:211:ARG:CZ	2.94	0.45
24:BA:1798:U:H5'	27:BD:257:LEU:CB	2.47	0.45
27:BD:28:GLU:N	27:BD:29:PRO:CD	2.78	0.45
27:BD:72:LYS:NZ	27:BD:75:ILE:HD13	2.32	0.45
27:BD:87:ASN:ND2	27:BD:87:ASN:H	2.13	0.45
28:BE:154:LYS:O	28:BE:154:LYS:HD2	2.16	0.45
28:BE:7:VAL:HG22	28:BE:8:LYS:O	2.15	0.45
28:BE:97:LYS:O	28:BE:100:GLU:HG3	2.16	0.45
24:BA:659:C:C4'	29:BF:102:PRO:CD	2.94	0.45
29:BF:141:ALA:O	29:BF:142:TRP:C	2.55	0.45
29:BF:27:GLU:OE2	29:BF:115:ALA:HB1	2.15	0.45
24:BA:586:A:OP1	29:BF:88:VAL:HG13	2.17	0.45
30:BG:55:LYS:HZ2	30:BG:152:LEU:HD21	1.80	0.45
31:BH:107:VAL:HB	31:BH:160:LYS:CD	2.43	0.45
31:BH:101:ARG:HH22	31:BH:122:THR:HA	1.82	0.45
31:BH:74:ASN:HD22	31:BH:75:ALA:H	1.64	0.45
32:BK:46:ALA:O	32:BK:49:ALA:HB3	2.15	0.45
33:BL:115:LEU:CG	33:BL:118:THR:HA	2.45	0.45
33:BL:23:VAL:HG11	33:BL:38:VAL:HG23	1.97	0.45
24:BA:557:U:O3'	34:BM:112:LEU:CG	2.64	0.45
34:BM:93:THR:O	34:BM:94:HIS:CD2	2.56	0.45
36:BO:76:LYS:HG3	36:BO:101:VAL:CB	2.46	0.45
36:BO:29:LYS:CG	36:BO:29:LYS:O	2.58	0.45
36:BO:49:ARG:HG3	54:B7:52:LYS:HG2	1.96	0.45
37:BP:78:PRO:HB3	37:BP:81:VAL:HG23	1.97	0.45
39:BR:19:LYS:HD3	39:BR:20:ARG:N	2.31	0.45
39:BR:23:ARG:O	39:BR:41:ASP:HB2	2.17	0.45
39:BR:42:ASP:O	39:BR:46:VAL:HG22	2.17	0.45
39:BR:94:TYR:N	39:BR:94:TYR:HD1	1.98	0.45
40:BS:111:ARG:O	40:BS:114:LEU:HB3	2.16	0.45
41:BT:93:LYS:HB2	42:BU:10:LYS:CE	2.47	0.45
45:BX:75:ILE:N	45:BX:100:ALA:HB1	2.32	0.45
45:BX:15:VAL:HG12	45:BX:16:ALA:N	2.31	0.45
45:BX:47:LYS:CD	45:BX:51:VAL:HB	2.40	0.45
46:BY:157:LEU:HB3	46:BY:161:VAL:HG13	1.97	0.45
46:BY:44:PHE:O	46:BY:48:PHE:CD1	2.69	0.45
46:BY:80:ARG:HD3	46:BY:82:ARG:HH22	1.81	0.45
47:BZ:46:LYS:HE3	47:BZ:77:ARG:N	2.30	0.45
3:AD:19:G:N3	3:AD:57:G:O2'	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:44:G:C5	3:AD:45:U:C2	3.05	0.45
3:AD:63:G:C6	3:AD:64:C:C4	3.05	0.45
24:BA:2133:G:OP2	24:BA:2156:G:N3	2.49	0.45
24:BA:2160:G:C2	24:BA:2161:C:C2	3.05	0.45
26:BC:32:LEU:CG	26:BC:220:PRO:HG2	2.47	0.45
26:BC:46:LYS:C	26:BC:46:LYS:HD3	2.37	0.45
26:BC:82:LYS:O	26:BC:83:ILE:C	2.53	0.45
28:BE:127:ASP:CB	28:BE:135:HIS:CA	2.83	0.45
25:BB:2:C:C2	25:BB:3:C:C5	3.04	0.45
24:BA:273(F):C:H1'	24:BA:363(A):A:N6	2.31	0.45
1:AA:1100:C:O2	1:AA:1102:A:H5'	2.16	0.45
1:AA:1130:A:OP2	1:AA:1131:G:OP2	2.34	0.45
1:AA:1049:U:C1'	1:AA:1201:A:H8	2.19	0.45
1:AA:124:G:C6	1:AA:125:U:N3	2.84	0.45
1:AA:1238:A:C5	1:AA:1303:C:H1'	2.50	0.45
1:AA:1338:G:N2	1:AA:1339:A:C4	2.84	0.45
1:AA:1389:C:H2'	1:AA:1390:U:C4'	2.47	0.45
1:AA:1428:A:C4	1:AA:1429:C:C5	3.04	0.45
1:AA:1506:U:H3'	1:AA:1507:A:H5'	1.99	0.45
1:AA:1405:G:H1'	1:AA:1519:A:H5'	1.98	0.45
1:AA:1536:C:C2'	1:AA:1537:U:C6	2.97	0.45
1:AA:189:U:C2	19:AT:72:ARG:NH2	2.78	0.45
1:AA:266:G:C8	19:AT:67:LYS:HE2	2.52	0.45
1:AA:356:A:O3'	1:AA:367:U:H2'	2.16	0.45
1:AA:718:G:N7	1:AA:719:C:C4	2.85	0.45
1:AA:812:C:C1'	1:AA:813:U:H5	2.29	0.45
1:AA:825:G:N3	1:AA:825:G:C2'	2.80	0.45
1:AA:828:A:H2'	1:AA:829:G:O5'	2.16	0.45
1:AA:865:A:H2'	1:AA:866:C:O2	2.16	0.45
1:AA:893:C:N3	1:AA:894:G:N7	2.65	0.45
1:AA:890:G:H22	1:AA:906:G:H3'	1.81	0.45
4:AE:44:LEU:HB2	4:AE:45:GLN:H	1.57	0.45
4:AE:69:LEU:HD22	4:AE:92:TYR:N	2.31	0.45
4:AE:76:GLN:O	4:AE:211:ILE:HD13	2.17	0.45
5:AF:35:GLU:CA	5:AF:38:ARG:CG	2.76	0.45
5:AF:86:VAL:HA	5:AF:89:GLU:OE1	2.17	0.45
6:AG:131:ARG:O	6:AG:132:ARG:HB3	2.16	0.45
6:AG:21:LEU:HD22	6:AG:67:ILE:HG22	1.98	0.45
6:AG:79:PHE:O	6:AG:82:ALA:HB3	2.17	0.45
6:AG:9:CYS:O	6:AG:12:CYS:HB2	2.17	0.45
7:AH:20:GLN:O	7:AH:21:ALA:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:84:PHE:CD1	7:AH:134:ALA:HA	2.52	0.45
8:AI:49:ALA:HB1	20:AU:80:PRO:CD	2.44	0.45
9:AJ:108:ALA:C	9:AJ:110:GLN:N	2.69	0.45
9:AJ:74:GLU:HG2	9:AJ:75:VAL:N	2.29	0.45
1:AA:1131:G:OP1	11:AL:20:ARG:NH1	2.49	0.45
11:AL:27:THR:O	11:AL:29:ASN:N	2.50	0.45
11:AL:45:ALA:O	11:AL:78:LYS:CB	2.63	0.45
11:AL:47:LEU:O	11:AL:50:LEU:HB3	2.16	0.45
13:AN:32:ILE:C	13:AN:40:ILE:CD1	2.85	0.45
14:AO:33:ARG:CG	14:AO:60:LEU:HD23	2.44	0.45
15:AP:19:LEU:HD13	15:AP:25:ILE:CG2	2.47	0.45
18:AS:4:ILE:CG2	18:AS:21:VAL:HG12	2.47	0.45
19:AT:18:THR:CB	19:AT:69:LYS:NZ	2.79	0.45
19:AT:45:HIS:HE1	19:AT:47:PRO:HA	1.82	0.45
1:AA:192:U:O4'	22:AW:103:GLY:HA2	2.15	0.45
48:B1:24:LYS:CG	48:B1:52:ILE:HG21	2.35	0.45
48:B1:24:LYS:HZ1	48:B1:56:LEU:HD11	1.81	0.45
49:B2:9:VAL:CG2	49:B2:54:VAL:HA	2.47	0.45
50:B3:40:HIS:CB	50:B3:41:PRO:HD3	2.47	0.45
50:B3:47:GLN:C	50:B3:52:THR:OG1	2.54	0.45
50:B3:65:ASP:N	50:B3:68:ARG:HH22	2.12	0.45
51:B4:31:VAL:CB	51:B4:32:PRO:HD2	2.30	0.45
51:B4:8:LYS:O	51:B4:9:LYS:CG	2.64	0.45
52:B5:19:ARG:HD3	52:B5:19:ARG:N	2.31	0.45
52:B5:28:ARG:HD3	52:B5:28:ARG:O	2.16	0.45
24:BA:2286:A:C5	52:B5:31:PRO:HD2	2.52	0.45
36:BO:56:SER:OG	54:B7:27:THR:HG21	2.17	0.45
54:B7:4:MET:HG3	54:B7:7:HIS:NE2	2.30	0.45
36:BO:52:GLU:HG3	54:B7:52:LYS:HD2	1.97	0.45
55:B8:15:LYS:O	55:B8:25:VAL:CG1	2.60	0.45
24:BA:1044:G:H21	24:BA:1111:A:C1'	2.29	0.45
24:BA:1071:G:C5	24:BA:1089:G:C6	3.04	0.45
24:BA:1124:C:C6	24:BA:1124:C:O5'	2.70	0.45
24:BA:1128:A:H1'	24:BA:2516:G:O2'	2.17	0.45
24:BA:1200:C:N3	24:BA:1246:A:C2	2.84	0.45
24:BA:126:A:C5'	53:B6:47:ARG:NH1	2.80	0.45
24:BA:1356:G:HO2'	24:BA:1357:U:H5'	1.78	0.45
24:BA:1436:G:N2	24:BA:1437:C:C2	2.84	0.45
24:BA:1602:U:O5'	24:BA:1602:U:C2	2.69	0.45
24:BA:1633:G:N7	24:BA:1635:G:N1	2.64	0.45
24:BA:1654:A:N3	24:BA:1654:A:H2'	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1731:G:N3	24:BA:1731:G:C2'	2.79	0.45
24:BA:1853:A:C2	24:BA:1854:A:C5	3.04	0.45
24:BA:1855:G:C6	24:BA:1856:G:C8	3.05	0.45
24:BA:1903:G:C2	24:BA:1904:G:N7	2.85	0.45
24:BA:1952:A:C3'	24:BA:1952:A:C8	3.00	0.45
24:BA:1964:G:O2'	24:BA:1965:C:P	2.75	0.45
24:BA:1971:A:H1'	27:BD:240:ALA:H	1.81	0.45
24:BA:1985:G:N2	24:BA:1986:A:H1'	2.31	0.45
24:BA:2032:G:N2	24:BA:2055:C:H42	2.14	0.45
24:BA:2041:U:O2	24:BA:2042:A:C1'	2.65	0.45
24:BA:2051:A:H3'	24:BA:2578:G:H5''	1.98	0.45
24:BA:2063:C:C4	24:BA:2064:C:C5	3.04	0.45
24:BA:2212:A:OP2	24:BA:2212:A:C4'	2.64	0.45
24:BA:2307:G:C5	24:BA:2308:G:C2	3.05	0.45
24:BA:2345:G:H21	24:BA:2382:G:P	2.40	0.45
24:BA:2346:A:OP2	24:BA:2381:C:O2'	2.20	0.45
24:BA:2394:C:N3	24:BA:2395:C:C2	2.85	0.45
24:BA:2466:C:O2'	37:BP:123:HIS:CE1	2.69	0.45
24:BA:2483:C:C2'	24:BA:2484:G:O5'	2.65	0.45
24:BA:195:A:H4'	24:BA:251:A:H4'	1.99	0.45
24:BA:2702:U:C6	24:BA:2702:U:C3'	2.98	0.45
24:BA:267:C:C5'	24:BA:271(A):C:N4	2.80	0.45
24:BA:283:A:H3'	24:BA:283:A:OP1	2.16	0.45
24:BA:1710:C:HO2'	24:BA:2858:C:H42	1.64	0.45
24:BA:298:G:C2	24:BA:338:G:O2'	2.69	0.45
24:BA:349:G:C2'	24:BA:350:U:C5	2.99	0.45
24:BA:496:G:C6	24:BA:497:A:C5	3.05	0.45
24:BA:49:A:C5	24:BA:177:G:N1	2.85	0.45
24:BA:625:G:N2	24:BA:653:A:N1	2.65	0.45
24:BA:650:C:H2'	24:BA:651:G:O5'	2.17	0.45
24:BA:660:G:C5'	29:BF:99:TYR:CZ	3.00	0.45
24:BA:71:A:OP1	24:BA:112:U:O2	2.33	0.45
24:BA:731:C:H5'	24:BA:731:C:H6	1.82	0.45
24:BA:87:C:N4	24:BA:96:G:N1	2.64	0.45
24:BA:926:A:N7	24:BA:929:G:N2	2.64	0.45
25:BB:32:C:C2'	25:BB:33:G:C8	2.99	0.45
25:BB:70:C:C2	25:BB:71:C:C6	3.05	0.45
25:BB:82:G:HO2'	25:BB:83:G:H8	1.65	0.45
25:BB:88:C:C2	25:BB:89:G:O4'	2.70	0.45
27:BD:77:ALA:O	27:BD:116:GLN:HA	2.16	0.45
27:BD:260:ARG:O	27:BD:261:LYS:O	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:59:LYS:HB3	27:BD:59:LYS:HE3	1.51	0.45
24:BA:2051:A:C1'	28:BE:141:ILE:HD13	2.38	0.45
28:BE:14:ILE:HD11	40:BS:14:TYR:CB	2.47	0.45
28:BE:22:PRO:HB2	28:BE:184:VAL:N	2.32	0.45
28:BE:38:THR:HB	28:BE:39:PRO:CD	2.43	0.45
28:BE:5:LEU:HD13	28:BE:196:VAL:C	2.37	0.45
30:BG:13:GLU:O	30:BG:17:PRO:CD	2.65	0.45
30:BG:21:ARG:HH11	30:BG:27:ASN:HA	1.81	0.45
24:BA:2311:A:N3	30:BG:45:GLU:CD	2.70	0.45
30:BG:5:VAL:CG1	30:BG:9:ARG:NH1	2.70	0.45
31:BH:164:TYR:CD2	31:BH:164:TYR:N	2.81	0.45
31:BH:26:VAL:HG13	31:BH:76:VAL:HG12	1.96	0.45
31:BH:69:ARG:NH2	31:BH:70:THR:N	2.65	0.45
33:BL:104:VAL:HG12	33:BL:124:ALA:HA	1.98	0.45
33:BL:13:PRO:CG	33:BL:16:LYS:HG2	2.47	0.45
34:BM:126:PRO:O	34:BM:127:ASP:OD2	2.35	0.45
34:BM:37:LYS:HZ2	34:BM:43:THR:CA	2.28	0.45
35:BN:24:VAL:HG22	35:BN:30:ALA:CB	2.47	0.45
35:BN:2:ILE:HA	35:BN:33:ALA:O	2.16	0.45
35:BN:57:VAL:HG21	35:BN:85:VAL:HG22	1.98	0.45
24:BA:1666:G:OP1	35:BN:81:ASP:OD1	2.34	0.45
36:BO:122:PRO:HB3	36:BO:124:LYS:NZ	2.31	0.45
36:BO:93:GLY:HA2	36:BO:96:THR:CG2	2.46	0.45
37:BP:35:VAL:HG11	37:BP:130:LYS:CE	2.46	0.45
37:BP:45:GLN:C	37:BP:47:ILE:N	2.68	0.45
24:BA:872:A:O2'	37:BP:66:ILE:HB	2.16	0.45
37:BP:22:LYS:HA	37:BP:99:PRO:HG3	1.98	0.45
39:BR:3:ARG:N	39:BR:3:ARG:HD2	2.32	0.45
41:BT:13:LYS:NZ	41:BT:13:LYS:H	2.13	0.45
41:BT:33:ARG:O	41:BT:36:ARG:N	2.49	0.45
41:BT:63:VAL:CG1	41:BT:64:ARG:N	2.77	0.45
41:BT:93:LYS:HB2	42:BU:10:LYS:HZ3	1.82	0.45
42:BU:32:THR:O	42:BU:32:THR:HG22	2.16	0.45
41:BT:44:ASN:ND2	42:BU:78:LYS:H	2.09	0.45
43:BV:43:GLY:O	43:BV:44:ALA:O	2.34	0.45
43:BV:4:LYS:HD3	43:BV:4:LYS:H	1.78	0.45
44:BW:48:LYS:HD2	44:BW:48:LYS:N	2.31	0.45
45:BX:19:LYS:HG3	45:BX:21:LYS:CE	2.47	0.45
45:BX:28:LYS:CE	45:BX:28:LYS:N	2.76	0.45
45:BX:50:ARG:HA	45:BX:54:LYS:HA	1.97	0.45
45:BX:50:ARG:CG	45:BX:54:LYS:HD2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:82:PRO:HD2	45:BX:96:ILE:HA	1.97	0.45
46:BY:107:THR:HG23	46:BY:140:ASP:OD1	2.17	0.45
46:BY:109:ALA:O	46:BY:113:ALA:HB3	2.16	0.45
46:BY:112:ARG:O	46:BY:112:ARG:HD2	2.16	0.45
46:BY:122:ARG:HG2	46:BY:171:ILE:CD1	2.45	0.45
46:BY:2:GLU:HG2	46:BY:60:GLU:CB	2.41	0.45
46:BY:1:MET:SD	46:BY:59:LEU:O	2.75	0.45
46:BY:57:ILE:CD1	46:BY:70:LEU:HB3	2.40	0.45
46:BY:57:ILE:HG13	46:BY:70:LEU:HB3	1.85	0.45
32:BK:110:ASP:OD1	32:BK:113:ARG:CG	2.61	0.45
32:BK:73:GLU:CA	32:BK:140:LEU:HD21	2.41	0.45
32:BK:69:LYS:HB2	32:BK:73:GLU:OE1	2.16	0.45
24:BA:2125:G:OP1	26:BC:40:THR:HG21	2.17	0.45
24:BA:2132:U:O2	24:BA:2133:G:C5'	2.59	0.45
24:BA:2147:G:H2'	24:BA:2147:G:N3	2.30	0.45
24:BA:2119:A:H2	24:BA:2171:A:C5	2.35	0.45
26:BC:7:TYR:HE1	26:BC:10:LEU:CG	2.29	0.45
26:BC:21:THR:HG1	26:BC:24:GLU:CD	2.19	0.45
26:BC:54:SER:CB	26:BC:57:ASN:HD22	2.30	0.45
26:BC:97:GLU:OE2	26:BC:119:VAL:HG12	2.17	0.45
1:AA:1163:C:C2'	1:AA:1164:G:C5'	2.84	0.45
1:AA:346:G:O4'	1:AA:346:G:OP1	2.35	0.45
1:AA:1107:C:H2'	1:AA:1107:C:O2	2.17	0.45
1:AA:1115:C:C4	1:AA:1116:C:C4	3.05	0.45
1:AA:1148:U:H5'	11:AL:5:TYR:OH	2.17	0.45
1:AA:1210:C:C5'	1:AA:1214:C:H42	2.29	0.45
1:AA:1443:G:O2'	1:AA:1447:G:OP1	2.35	0.45
1:AA:266:G:C2'	1:AA:267:C:OP2	2.65	0.45
1:AA:267:C:H2'	1:AA:268:C:C6	2.52	0.45
1:AA:290:C:H2'	1:AA:291:C:H5'	1.98	0.45
1:AA:294:U:O2	1:AA:294:U:C2'	2.57	0.45
1:AA:317:G:C2'	1:AA:318:G:O5'	2.65	0.45
1:AA:357:G:P	1:AA:367:U:H2'	2.57	0.45
1:AA:423:G:N2	1:AA:424:G:C5	2.85	0.45
1:AA:27:G:C2	1:AA:557:G:N3	2.85	0.45
1:AA:573:A:H3'	1:AA:573:A:OP2	2.17	0.45
1:AA:702:A:C2'	1:AA:703:G:OP1	2.63	0.45
1:AA:80:G:H2'	1:AA:81:G:C1'	2.44	0.45
1:AA:934:C:H5	1:AA:1344:C:N1	2.14	0.45
1:AA:99:C:C6	1:AA:99:C:H3'	2.51	0.45
2:AC:38:A:C4	2:AC:39:C:C6	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:38:A:H2'	2:AC:39:C:O5'	2.17	0.45
2:AC:76:A:P	2:AC:76:A:O3'	2.74	0.45
4:AE:175:ARG:O	4:AE:178:ARG:N	2.50	0.45
4:AE:205:ASP:OD1	4:AE:206:ASP:OD1	2.34	0.45
4:AE:28:PHE:HE2	4:AE:189:ASP:O	2.00	0.45
4:AE:61:LEU:HB2	4:AE:64:ARG:NH1	2.31	0.45
4:AE:75:LYS:CA	4:AE:75:LYS:CE	2.95	0.45
5:AF:189:ALA:HB1	5:AF:196:LEU:CG	2.45	0.45
5:AF:94:LEU:O	5:AF:95:THR:OG1	2.32	0.45
6:AG:132:ARG:CG	6:AG:132:ARG:NH1	2.71	0.45
6:AG:153:ARG:CG	6:AG:181:MET:HE3	2.47	0.45
6:AG:177:ASP:OD1	6:AG:177:ASP:O	2.35	0.45
6:AG:62:GLN:O	6:AG:66:ARG:CG	2.65	0.45
8:AI:40:VAL:HG22	8:AI:40:VAL:O	2.16	0.45
10:AK:69:ARG:CZ	10:AK:74:PRO:O	2.64	0.45
12:AM:61:GLU:CG	16:AQ:58:LYS:NZ	2.78	0.45
13:AN:27:ASN:N	13:AN:56:GLY:CA	2.80	0.45
13:AN:85:ARG:HA	13:AN:85:ARG:HD3	1.33	0.45
14:AO:69:TYR:CE2	14:AO:71:PRO:CA	2.99	0.45
14:AO:85:ILE:CD1	14:AO:99:HIS:H	2.29	0.45
14:AO:85:ILE:HG13	14:AO:87:GLY:N	2.32	0.45
1:AA:1227:A:O2'	15:AP:115:LYS:CG	2.65	0.45
16:AQ:13:THR:O	16:AQ:14:PRO:C	2.54	0.45
17:AR:84:LYS:HB3	17:AR:85:LEU:HD12	1.98	0.45
19:AT:35:VAL:HG13	19:AT:36:ILE:N	2.32	0.45
19:AT:9:VAL:O	19:AT:9:VAL:HG13	2.17	0.45
20:AU:58:LEU:HD22	20:AU:62:GLU:CG	2.47	0.45
22:AW:16:HIS:O	22:AW:19:SER:N	2.50	0.45
48:B1:37:GLY:N	48:B1:41:GLN:NE2	2.65	0.45
49:B2:32:GLN:OE1	49:B2:32:GLN:N	2.50	0.45
50:B3:52:THR:O	50:B3:53:GLU:HB2	2.16	0.45
53:B6:25:PRO:HA	53:B6:28:ARG:CZ	2.46	0.45
24:BA:1025:G:N3	24:BA:1025:G:C3'	2.80	0.45
24:BA:565:C:O4'	24:BA:1252:G:O6	2.34	0.45
24:BA:1286:A:C2	24:BA:1329:U:N3	2.85	0.45
24:BA:1359:A:C4	24:BA:1373:A:C2	3.05	0.45
24:BA:1500:G:C2	24:BA:1501:C:C5	3.05	0.45
24:BA:1538:G:N2	24:BA:1539:G:C2	2.82	0.45
24:BA:1544:C:O2'	24:BA:1545:A:C1'	2.64	0.45
24:BA:1444:G:C2	24:BA:1548:C:C4	3.05	0.45
24:BA:1444:G:N2	24:BA:1548:C:C6	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1612:C:H4'	53:B6:5:TRP:CD1	2.52	0.45
24:BA:1621:U:H6	24:BA:1621:U:H3'	1.81	0.45
24:BA:1661:G:C6	24:BA:2000:G:C6	3.05	0.45
24:BA:1636:C:O2'	24:BA:1760:A:H2'	2.17	0.45
24:BA:197:A:C4	24:BA:198:C:C6	3.04	0.45
24:BA:2007:C:H2'	24:BA:2008:C:C5'	2.47	0.45
24:BA:2252:G:N7	24:BA:2253:G:N7	2.64	0.45
24:BA:2447:G:C4	24:BA:2501:C:C4	3.04	0.45
24:BA:2456:C:C2'	24:BA:2457:U:C5'	2.88	0.45
24:BA:2508:G:C2'	24:BA:2509:G:C5'	2.94	0.45
24:BA:251:A:O2'	24:BA:252:G:P	2.75	0.45
24:BA:2607:G:N1	24:BA:2608:G:N3	2.63	0.45
24:BA:2655:G:H2'	24:BA:2664:G:O6	2.17	0.45
24:BA:2776:A:C4	24:BA:2778:A:C5	3.05	0.45
24:BA:2821:A:C2'	24:BA:2822:G:O4'	2.60	0.45
24:BA:282:A:H5'	24:BA:282:A:H8	1.82	0.45
24:BA:2861:G:C5	24:BA:2862:G:N7	2.84	0.45
24:BA:295:G:C2'	24:BA:296:C:C5'	2.90	0.45
24:BA:296:C:C2'	24:BA:297:C:O4'	2.65	0.45
24:BA:328:U:H2'	24:BA:329:G:OP1	2.16	0.45
24:BA:420:C:H2'	24:BA:421:U:C6	2.50	0.45
24:BA:443:A:C1'	24:BA:1201:C:O4'	2.65	0.45
24:BA:511:U:H5	24:BA:512:G:C4	2.32	0.45
24:BA:533:G:O2'	24:BA:534:U:H5'	2.16	0.45
24:BA:539:G:H2'	24:BA:540:G:H8	1.81	0.45
24:BA:546:C:C2'	24:BA:547:A:O4'	2.64	0.45
24:BA:588:U:O2'	24:BA:589:C:C5'	2.65	0.45
24:BA:668:G:C2	24:BA:670:A:C6	3.04	0.45
24:BA:713:G:N2	24:BA:714:U:C2	2.85	0.45
24:BA:783:A:H2'	24:BA:784:A:C4'	2.47	0.45
24:BA:675:A:C5	24:BA:804:A:N3	2.85	0.45
24:BA:809:G:C4	24:BA:810:U:C5	3.05	0.45
24:BA:898:C:H3'	24:BA:899:A:C5'	2.44	0.45
24:BA:924:C:N4	24:BA:925:C:N4	2.65	0.45
24:BA:822:U:OP2	24:BA:945:A:H5'	2.16	0.45
24:BA:970:C:H2'	24:BA:971:C:H6	1.80	0.45
24:BA:973:A:H2'	24:BA:974:G:C5'	2.46	0.45
25:BB:106:G:C5	25:BB:107:U:H5	2.35	0.45
25:BB:55:U:H2'	25:BB:56:G:C4'	2.45	0.45
27:BD:101:GLU:C	27:BD:102:LYS:HG3	2.37	0.45
27:BD:10:THR:H	27:BD:23:GLU:HG2	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:117:VAL:CG1	27:BD:129:ASN:HA	2.46	0.45
27:BD:252:TRP:N	27:BD:255:LYS:HZ2	2.15	0.45
27:BD:63:ARG:HB2	27:BD:87:ASN:HD21	1.81	0.45
28:BE:11:MET:O	28:BE:21:VAL:HB	2.17	0.45
28:BE:124:GLY:CA	28:BE:136:ARG:HB2	2.47	0.45
28:BE:179:GLU:N	28:BE:179:GLU:CD	2.62	0.45
28:BE:187:ALA:O	28:BE:188:VAL:C	2.55	0.45
28:BE:105:THR:CG2	28:BE:199:ARG:CZ	2.93	0.45
29:BF:123:LEU:HG	29:BF:191:ARG:CD	2.46	0.45
29:BF:182:ASN:OD1	29:BF:185:ASP:CB	2.64	0.45
29:BF:97:TYR:C	29:BF:98:SER:O	2.53	0.45
30:BG:173:LEU:CA	30:BG:176:LEU:HB3	2.23	0.45
30:BG:32:PRO:CG	30:BG:33:ARG:N	2.79	0.45
30:BG:36:LYS:CB	30:BG:95:ARG:HD3	2.47	0.45
31:BH:59:ARG:O	31:BH:62:LYS:CG	2.56	0.45
32:BK:2:LYS:HD2	32:BK:39:ALA:CA	2.46	0.45
33:BL:87:GLY:HA2	33:BL:134:MET:CE	2.46	0.45
34:BM:109:LYS:HE2	34:BM:111:PRO:CG	2.46	0.45
24:BA:1131:G:H1'	34:BM:82:LEU:HD11	1.93	0.45
35:BN:38:VAL:HA	35:BN:59:LYS:O	2.17	0.45
35:BN:22:ILE:HD12	35:BN:40:VAL:CG1	2.47	0.45
35:BN:68:GLU:HB3	35:BN:76:ALA:O	2.17	0.45
24:BA:627:A:C3'	36:BO:75:ILE:HG13	2.46	0.45
37:BP:42:ILE:HG12	37:BP:46:GLN:NE2	2.32	0.45
37:BP:50:ALA:HA	37:BP:121:ALA:HB1	1.98	0.45
38:BQ:67:LEU:HD21	38:BQ:71:GLN:HA	1.97	0.45
39:BR:10:ARG:HH22	39:BR:89:ARG:HH22	1.64	0.45
39:BR:41:ASP:OD2	39:BR:41:ASP:N	2.49	0.45
39:BR:64:GLU:OE2	39:BR:67:ARG:CG	2.64	0.45
43:BV:36:LEU:HD11	43:BV:48:ALA:N	2.31	0.45
43:BV:64:MET:SD	43:BV:65:LEU:CD2	3.05	0.45
45:BX:97:ARG:NH1	45:BX:101:LYS:HG2	2.31	0.45
45:BX:45:VAL:HA	45:BX:57:GLN:NE2	2.31	0.45
45:BX:50:ARG:CB	45:BX:54:LYS:CE	2.89	0.45
45:BX:82:PRO:CG	45:BX:83:THR:H	2.24	0.45
45:BX:83:THR:CG2	45:BX:84:ARG:HH11	2.29	0.45
46:BY:55:HIS:HB3	46:BY:100:VAL:HA	1.97	0.45
25:BB:76:G:C5'	46:BY:11:GLU:O	2.64	0.45
46:BY:1:MET:H2	46:BY:58:VAL:HG11	1.82	0.45
3:AD:63:G:N2	3:AD:64:C:C2	2.85	0.45
24:BA:2119:A:C5	24:BA:2170:A:N1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2134:A:N3	24:BA:2134:A:C5'	2.79	0.45
24:BA:2152:G:C2'	24:BA:2153:G:O5'	2.65	0.45
24:BA:2159:G:O2'	24:BA:2160:G:C5'	2.65	0.45
26:BC:129:ARG:H	26:BC:129:ARG:HD2	1.82	0.45
26:BC:175:VAL:O	26:BC:188:ASN:HB3	2.16	0.45
1:AA:748:C:O2'	1:AA:749:C:C5'	2.65	0.45
1:AA:1166:G:C2	1:AA:1169:A:P	3.10	0.45
1:AA:191(C):G:C2'	1:AA:191(D):U:C6	2.90	0.45
24:BA:2246:G:C2'	24:BA:2247:A:O5'	2.64	0.45
25:BB:20:C:H2'	25:BB:21:G:O4'	2.16	0.45
24:BA:738:G:C6	24:BA:739:G:C6	3.05	0.45
38:BQ:60:LEU:HD23	38:BQ:60:LEU:N	2.32	0.45
24:BA:844:C:OP2	24:BA:844:C:C6	2.70	0.45
1:AA:1189:C:P	1:AA:1189:C:H6	2.40	0.45
1:AA:962:C:O3'	1:AA:1200:C:N4	2.48	0.45
1:AA:1321:C:H4'	15:AP:87:TYR:OH	2.16	0.45
1:AA:1347:G:HO2'	1:AA:1348:U:P	2.37	0.45
1:AA:1440:C:C6	1:AA:1440:C:OP2	2.70	0.45
1:AA:1470:G:H2'	1:AA:1471:G:O5'	2.17	0.45
1:AA:150:C:H2'	1:AA:151:A:O4'	2.16	0.45
1:AA:155:C:H2'	1:AA:156:G:O4'	2.17	0.45
1:AA:186(B):C:C2'	1:AA:186(C):G:O5'	2.65	0.45
1:AA:232:G:C8	1:AA:233:C:H5	2.35	0.45
1:AA:439:A:H5''	1:AA:493:G:H22	1.82	0.45
1:AA:451:A:C8	1:AA:481:G:C6	3.05	0.45
1:AA:522:C:N4	1:AA:523:A:C6	2.84	0.45
1:AA:64:G:H5'	1:AA:66:G:OP1	2.17	0.45
1:AA:687:A:H1'	1:AA:688:G:O4'	2.17	0.45
4:AE:170:GLU:HA	4:AE:170:GLU:OE1	2.16	0.45
4:AE:175:ARG:O	4:AE:177:ALA:N	2.50	0.45
6:AG:83:SER:HA	6:AG:89:THR:CG2	2.47	0.45
6:AG:92:VAL:HG12	6:AG:96:LEU:CD1	2.47	0.45
7:AH:95:ALA:O	7:AH:96:PRO:O	2.35	0.45
9:AJ:17:VAL:HG21	9:AJ:44:TYR:CZ	2.51	0.45
9:AJ:22:LEU:HD13	9:AJ:97:GLN:HE21	1.82	0.45
10:AK:116:LYS:O	10:AK:119:LEU:HD11	2.17	0.45
10:AK:120:THR:OG1	10:AK:122:ARG:NH1	2.49	0.45
10:AK:6:ILE:CD1	10:AK:7:ALA:N	2.80	0.45
11:AL:46:ALA:HA	11:AL:78:LYS:HB2	1.99	0.45
12:AM:50:ILE:H	16:AQ:41:ARG:CD	2.30	0.45
12:AM:9:ARG:HD2	12:AM:95:GLU:OE2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:123:LYS:HA	13:AN:126:ARG:HB2	1.99	0.45
13:AN:22:HIS:O	13:AN:28:THR:CG2	2.60	0.45
13:AN:62:GLN:OE1	13:AN:63:LEU:CB	2.65	0.45
13:AN:62:GLN:OE1	13:AN:63:LEU:HB2	2.16	0.45
13:AN:69:ALA:O	13:AN:70:LYS:C	2.55	0.45
1:AA:539:A:OP1	14:AO:114:LYS:HE2	2.16	0.45
14:AO:47:LYS:N	14:AO:48:PRO:HD3	2.31	0.45
10:AK:90:GLY:CA	14:AO:7:ILE:HG13	2.47	0.45
14:AO:84:LEU:O	14:AO:100:ILE:HA	2.17	0.45
15:AP:37:THR:OG1	15:AP:56:LEU:HD23	2.17	0.45
16:AQ:36:PHE:O	16:AQ:36:PHE:HD1	1.99	0.45
18:AS:4:ILE:HD11	18:AS:64:ALA:C	2.37	0.45
19:AT:7:THR:CG2	19:AT:57:VAL:O	2.60	0.45
22:AW:27:LYS:O	22:AW:28:ALA:C	2.53	0.45
22:AW:49:ALA:O	22:AW:53:LEU:CG	2.60	0.45
22:AW:53:LEU:O	22:AW:57:ARG:HG3	2.16	0.45
22:AW:84:LEU:CD1	22:AW:88:VAL:CG2	2.94	0.45
48:B1:1:MET:O	48:B1:4:GLN:HB2	2.16	0.45
48:B1:1:MET:CE	48:B1:3:LYS:HB2	2.47	0.45
49:B2:13:ILE:HG12	49:B2:14:GLY:N	2.32	0.45
24:BA:2230:G:C1'	50:B3:58:ARG:NH2	2.80	0.45
50:B3:57:GLU:N	50:B3:61:ARG:CG	2.79	0.45
51:B4:55:ARG:C	51:B4:57:VAL:H	2.20	0.45
52:B5:50:ARG:CZ	52:B5:52:VAL:CG2	2.93	0.45
53:B6:18:PHE:O	53:B6:22:MET:HE3	2.16	0.45
24:BA:1072:C:O2	24:BA:1092:C:H5	2.00	0.45
24:BA:1057:A:C8	24:BA:1085:A:C2	3.05	0.45
24:BA:1091:G:N2	24:BA:1101:U:C2	2.85	0.45
24:BA:1124:C:H3'	24:BA:1125:G:C8	2.52	0.45
24:BA:1202:C:H2'	24:BA:1203:G:H4'	1.98	0.45
24:BA:1266:G:C2'	24:BA:1267:U:OP2	2.64	0.45
24:BA:1366:A:H8	24:BA:1366:A:OP2	1.96	0.45
24:BA:1465:G:O2'	24:BA:1466:G:H5'	2.17	0.45
24:BA:1634:A:C2'	24:BA:1635:G:OP1	2.64	0.45
24:BA:1698:A:O2'	24:BA:1699:G:C3'	2.63	0.45
24:BA:184:C:H2'	24:BA:185:U:H6	1.81	0.45
24:BA:1889:A:N6	24:BA:1890:A:N6	2.65	0.45
24:BA:194:G:O6	24:BA:201:C:N4	2.50	0.45
24:BA:1967:C:N3	24:BA:1968:G:C2	2.85	0.45
24:BA:2009:G:H1'	38:BQ:107:ASP:O	2.17	0.45
24:BA:215:G:C4'	24:BA:216:A:H4'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2227:A:C5	24:BA:2228:G:C8	3.05	0.45
24:BA:224:G:C2	24:BA:225:A:C1'	3.00	0.45
24:BA:2333:A:C4'	24:BA:2335:A:O4'	2.63	0.45
24:BA:233:A:C6	24:BA:234:C:C5	3.05	0.45
24:BA:2346:A:H2	24:BA:2383:G:C2	2.35	0.45
24:BA:2412:A:O5'	24:BA:2412:A:H8	1.99	0.45
24:BA:2427:C:H5''	24:BA:2429:G:H5'	1.99	0.45
24:BA:2466:C:O5'	24:BA:2466:C:H6	1.99	0.45
24:BA:2521:C:O2'	24:BA:2522:U:H5''	2.14	0.45
24:BA:2572:A:C5'	24:BA:2573:C:OP1	2.64	0.45
24:BA:2582:G:C2'	24:BA:2583:G:H5'	2.47	0.45
24:BA:1265:A:P	24:BA:2615:U:OP1	2.73	0.45
24:BA:2657:A:C3'	24:BA:2657:A:C8	3.00	0.45
24:BA:2658:C:N4	24:BA:2664:G:H1	2.14	0.45
24:BA:2666:C:H5	24:BA:2667:C:C2	2.35	0.45
24:BA:2781:A:C3'	24:BA:2782:G:H4'	2.47	0.45
24:BA:27:G:C8	24:BA:27:G:H3'	2.51	0.45
24:BA:2895:U:O2'	24:BA:2896:C:H5'	2.16	0.45
24:BA:300:A:O2'	24:BA:318:C:C1'	2.57	0.45
24:BA:302:C:H2'	24:BA:303:U:O5'	2.17	0.45
24:BA:80:G:O2'	24:BA:346:A:N3	2.49	0.45
24:BA:421:U:H2'	24:BA:421:U:O2	2.17	0.45
24:BA:458:G:O2'	24:BA:459:U:H6	1.99	0.45
24:BA:465:G:C8	24:BA:466:A:C8	3.04	0.45
24:BA:479:A:HO2'	24:BA:480:A:P	2.40	0.45
24:BA:55:G:C4	24:BA:56:A:C8	3.05	0.45
24:BA:648:G:C2	24:BA:649:G:C8	3.05	0.45
24:BA:757:U:N3	24:BA:758:C:C6	2.84	0.45
24:BA:826:U:H3'	24:BA:828:U:C4	2.51	0.45
24:BA:836:G:C5	24:BA:837:C:C5	3.05	0.45
24:BA:85:G:P	45:BX:28:LYS:NZ	2.90	0.45
24:BA:959:A:N6	24:BA:960:A:H62	2.04	0.45
24:BA:988:A:H2	24:BA:989:G:H21	1.64	0.45
24:BA:997:G:C2	24:BA:998:C:C6	3.05	0.45
25:BB:12:C:N4	47:BZ:75:LEU:HA	2.31	0.45
25:BB:5:C:H2'	25:BB:6:C:C6	2.51	0.45
27:BD:226:MET:CE	27:BD:237:GLU:H	2.29	0.45
28:BE:13:ARG:O	28:BE:19:ARG:HB2	2.16	0.45
28:BE:7:VAL:CB	28:BE:196:VAL:HG21	2.44	0.45
29:BF:9:ILE:HG21	29:BF:124:LEU:HB3	1.97	0.45
29:BF:160:ASN:HB2	29:BF:163:VAL:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:200:GLU:CD	29:BF:201:VAL:N	2.70	0.45
30:BG:32:PRO:CG	30:BG:163:ALA:HB2	2.47	0.45
32:BK:2:LYS:CE	32:BK:39:ALA:HB2	2.47	0.45
33:BL:115:LEU:HD13	33:BL:116:ASN:OD1	2.16	0.45
34:BM:82:LEU:O	34:BM:83:LYS:O	2.35	0.45
35:BN:57:VAL:HG23	35:BN:59:LYS:HD3	1.99	0.45
24:BA:663:G:P	36:BO:19:VAL:H	2.40	0.45
37:BP:112:GLU:HA	37:BP:115:MET:CB	2.47	0.45
37:BP:43:THR:HG23	37:BP:46:GLN:HB3	1.99	0.45
37:BP:75:THR:O	37:BP:77:LYS:CD	2.65	0.45
38:BQ:55:ALA:HB1	38:BQ:79:LEU:CG	2.46	0.45
39:BR:26:LEU:HD22	39:BR:27:SER:H	1.76	0.45
40:BS:26:ASP:H	40:BS:94:ALA:CB	2.30	0.45
40:BS:30:VAL:CG2	40:BS:31:SER:N	2.80	0.45
41:BT:109:LEU:N	41:BT:109:LEU:HD23	2.31	0.45
41:BT:111:GLU:O	41:BT:114:LYS:CG	2.44	0.45
41:BT:88:ILE:O	42:BU:52:VAL:CA	2.64	0.45
42:BU:4:ILE:H	42:BU:44:LYS:HZ2	1.65	0.45
45:BX:8:LYS:HA	45:BX:28:LYS:HD2	1.99	0.45
45:BX:24:VAL:CG2	45:BX:38:ILE:HB	2.46	0.45
46:BY:128:VAL:CG1	46:BY:129:SER:N	2.80	0.45
46:BY:169:GLU:O	46:BY:170:THR:CB	2.63	0.45
25:BB:75:G:N2	46:BY:87:ASP:CG	2.70	0.45
47:BZ:17:GLN:O	47:BZ:18:ALA:O	2.35	0.45
32:BK:146:ALA:O	32:BK:148:GLU:OE2	2.33	0.45
3:AD:56:C:O5'	3:AD:57:G:N7	2.49	0.45
26:BC:8:ARG:CD	26:BC:11:LEU:HD23	2.42	0.45
26:BC:115:ALA:HB2	26:BC:138:PRO:HG2	1.97	0.45
26:BC:29:VAL:CG1	26:BC:30:LYS:H	2.28	0.45
26:BC:59:ARG:NH1	26:BC:164:ARG:CD	2.74	0.45
24:BA:2194:G:H3'	24:BA:2195:C:H5	1.81	0.45
26:BC:71:GLN:CG	26:BC:72:VAL:N	2.60	0.45
1:AA:1018:C:H2'	1:AA:1019:C:C5'	2.46	0.45
1:AA:1043:C:H2'	1:AA:1044:A:C5'	2.47	0.45
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.17	0.45
1:AA:1118:C:N3	1:AA:1156:G:N2	2.64	0.45
1:AA:1124:G:H1	1:AA:1147:C:H42	1.64	0.45
1:AA:1141:C:C2	1:AA:1142:G:C8	3.05	0.45
1:AA:1157:A:H1'	1:AA:1181:G:N2	2.31	0.45
1:AA:1157:A:H5''	1:AA:1158:C:OP1	2.17	0.45
1:AA:115:G:C6	1:AA:313:A:N1	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1286:A:C5'	23:AX:25:LYS:CG	2.94	0.45
1:AA:1313:U:O4	21:AV:4:SER:OG	2.21	0.45
1:AA:1345:U:C5'	1:AA:1346:A:OP1	2.62	0.45
1:AA:1365:G:C6	1:AA:1366:C:C4	3.05	0.45
1:AA:1515:C:O2'	1:AA:1516:G:C5'	2.64	0.45
1:AA:1523:G:C6	1:AA:1524:C:N4	2.84	0.45
1:AA:186(A):C:O2'	1:AA:186(B):C:H5'	2.16	0.45
1:AA:130:A:N1	1:AA:264:U:H1'	2.32	0.45
1:AA:300:A:H2'	1:AA:301:G:C4'	2.46	0.45
1:AA:321:A:H62	1:AA:328:C:C2'	2.29	0.45
1:AA:407:G:OP1	6:AG:115:ARG:HD2	2.17	0.45
1:AA:428:G:O2'	1:AA:429:U:P	2.74	0.45
1:AA:671:G:N3	1:AA:671:G:C2'	2.77	0.45
1:AA:68:G:H1	1:AA:101:A:H2	1.63	0.45
1:AA:761:G:N2	1:AA:762:C:C2	2.84	0.45
1:AA:815:A:C8	1:AA:819:A:C2	3.05	0.45
1:AA:86:U:OP2	1:AA:87:A:N1	2.49	0.45
1:AA:885:G:C2	1:AA:913:A:C2	3.05	0.45
1:AA:921:U:H2'	1:AA:922:G:O4'	2.17	0.45
1:AA:925:G:N1	1:AA:1392:G:N1	2.65	0.45
1:AA:963:G:H2'	1:AA:964:A:C8	2.52	0.45
3:AD:30:G:C6	3:AD:31:A:N6	2.84	0.45
3:AD:75:C:H6	3:AD:76:A:HO3'	1.64	0.45
4:AE:100:GLY:C	4:AE:108:ILE:HD11	2.37	0.45
4:AE:114:ARG:HG3	4:AE:115:LEU:H	1.79	0.45
4:AE:161:ALA:HA	4:AE:183:PRO:CG	2.47	0.45
4:AE:162:ILE:H	4:AE:162:ILE:HD13	1.82	0.45
5:AF:120:VAL:O	5:AF:123:GLN:HB2	2.17	0.45
5:AF:147:LYS:HB2	5:AF:203:PHE:CG	2.52	0.45
5:AF:11:ARG:O	5:AF:14:ILE:N	2.49	0.45
6:AG:113:SER:HB3	6:AG:116:GLN:H	1.81	0.45
6:AG:152:SER:O	6:AG:155:LEU:HG	2.15	0.45
6:AG:3:ARG:HH21	6:AG:71:SER:CB	2.29	0.45
7:AH:33:VAL:HG12	7:AH:34:VAL:N	2.31	0.45
7:AH:87:SER:HB3	7:AH:131:ILE:CD1	2.46	0.45
8:AI:11:ASN:C	8:AI:11:ASN:OD1	2.55	0.45
8:AI:33:TYR:CE2	8:AI:75:LEU:N	2.85	0.45
9:AJ:89:MET:O	9:AJ:90:GLU:C	2.55	0.45
10:AK:101:PRO:HG2	10:AK:102:ARG:N	2.32	0.45
10:AK:114:THR:C	10:AK:116:LYS:N	2.70	0.45
10:AK:129:VAL:CG2	10:AK:130:GLY:H	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:23:SER:O	10:AK:24:THR:CB	2.65	0.45
10:AK:77:GLU:HB3	10:AK:78:GLN:H	1.45	0.45
13:AN:91:ARG:O	13:AN:94:ALA:HB3	2.17	0.45
15:AP:108:ARG:NH1	15:AP:112:GLY:N	2.65	0.45
1:AA:1114:C:O2'	16:AQ:60:SER:HB2	2.16	0.45
19:AT:59:ILE:CD1	19:AT:72:ARG:C	2.85	0.45
20:AU:45:SER:N	20:AU:51:LEU:HD11	2.32	0.45
20:AU:66:LEU:CG	20:AU:67:ALA:H	2.30	0.45
20:AU:66:LEU:CG	20:AU:67:ALA:N	2.79	0.45
21:AV:62:ILE:HG12	21:AV:63:THR:N	2.31	0.45
22:AW:78:ALA:O	22:AW:81:LYS:N	2.49	0.45
48:B1:16:LEU:CA	48:B1:19:LEU:HD12	2.39	0.45
49:B2:23:LEU:HA	49:B2:28:LEU:HD12	1.98	0.45
24:BA:2231:C:OP1	50:B3:39:CYS:HA	2.15	0.45
55:B8:10:ILE:HD13	55:B8:32:HIS:CD2	2.52	0.45
24:BA:51:G:O2'	24:BA:119:A:N1	2.41	0.45
24:BA:120:U:C6	24:BA:150:C:C5	2.99	0.45
24:BA:1225:C:P	42:BU:88:ARG:CZ	3.05	0.45
24:BA:1410:G:H2'	24:BA:1411:C:O4'	2.16	0.45
24:BA:1447:G:O4'	24:BA:1545(A):A:O4'	2.35	0.45
24:BA:1453:A:H2'	24:BA:1453:A:N3	2.31	0.45
24:BA:1628:G:C6	24:BA:1629:U:C4	3.05	0.45
24:BA:1270:C:O3'	24:BA:1648:C:OP2	2.35	0.45
24:BA:1669:A:H5''	24:BA:2550:G:OP1	2.17	0.45
24:BA:783:A:H2	24:BA:1779:U:O4'	1.99	0.45
24:BA:1799:G:H5''	27:BD:268:ARG:HH12	1.78	0.45
24:BA:1838:C:C5	24:BA:1899:G:C6	3.04	0.45
24:BA:1908:C:O2'	24:BA:1909:C:H6	2.00	0.45
24:BA:1953:A:C4'	24:BA:1953:A:OP1	2.62	0.45
24:BA:1769:G:C6	24:BA:1984:G:C6	3.05	0.45
24:BA:1987:G:H2'	24:BA:1988:C:C5	2.51	0.45
24:BA:2009:G:H5''	43:BV:41:LYS:CG	2.45	0.45
24:BA:2020:A:N6	24:BA:2022:U:O2	2.50	0.45
24:BA:2073:C:O2'	24:BA:2074:U:H5'	2.16	0.45
24:BA:2074:U:H3	24:BA:2075:U:H5	1.60	0.45
24:BA:2213:U:C3'	24:BA:2215:G:N7	2.80	0.45
24:BA:2227:A:C6	24:BA:2228:G:C5	3.04	0.45
24:BA:2444:G:C2	24:BA:2445:G:C4	3.05	0.45
24:BA:2450:A:C2'	24:BA:2451:A:C5'	2.94	0.45
24:BA:2573:C:O5'	24:BA:2573:C:C6	2.65	0.45
24:BA:2597:G:H5'	27:BD:242:ARG:CG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2657:A:C5	24:BA:2665:A:C6	3.04	0.45
24:BA:2685:G:C5'	35:BN:67:LYS:NZ	2.76	0.45
24:BA:2794:C:O2	24:BA:2794:C:H2'	2.17	0.45
24:BA:2826:A:H2'	24:BA:2827:C:H5'	1.99	0.45
24:BA:374:A:H3'	24:BA:375:C:H6	1.81	0.45
24:BA:399:G:H2'	24:BA:400:G:H5'	1.97	0.45
24:BA:470:A:C6	24:BA:471:A:N3	2.85	0.45
24:BA:479:A:C4'	24:BA:480:A:H5'	2.46	0.45
24:BA:503:A:N1	24:BA:505:A:N6	2.51	0.45
24:BA:515:A:H2'	24:BA:516:C:O4'	2.17	0.45
24:BA:602:G:N2	24:BA:655:A:H3'	2.31	0.45
24:BA:622:G:C5	24:BA:623:G:C2	3.05	0.45
24:BA:685:A:H1'	24:BA:688:U:C4	2.51	0.45
24:BA:728:G:H2'	24:BA:763:G:OP2	2.17	0.45
24:BA:728:G:C4'	24:BA:729:G:C8	2.99	0.45
24:BA:774:A:C5'	24:BA:778:G:O4'	2.64	0.45
24:BA:804:A:OP2	36:BO:39:LYS:HB3	2.16	0.45
24:BA:889:C:C2'	24:BA:889:C:O2	2.64	0.45
24:BA:880:G:C2	24:BA:898:C:O2	2.69	0.45
24:BA:952:G:O6	24:BA:966:G:C6	2.70	0.45
24:BA:954:G:C6	24:BA:964:C:C4	3.05	0.45
24:BA:955:C:H2'	24:BA:956:G:O5'	2.17	0.45
24:BA:972:G:H5''	24:BA:974:G:P	2.56	0.45
24:BA:973:A:C1'	24:BA:1188:U:C4	2.96	0.45
25:BB:31:C:H2'	25:BB:32:C:C6	2.52	0.45
25:BB:44:G:C2	25:BB:48:A:N3	2.85	0.45
27:BD:101:GLU:HG2	27:BD:102:LYS:N	2.31	0.45
27:BD:244:ARG:O	27:BD:252:TRP:CG	2.69	0.45
24:BA:1804:C:H4'	27:BD:250:TRP:CZ2	2.51	0.45
28:BE:172:VAL:HG23	28:BE:173:VAL:N	2.32	0.45
30:BG:179:PRO:O	30:BG:180:PHE:O	2.34	0.45
30:BG:34:LEU:HD21	30:BG:176:LEU:CD2	2.39	0.45
30:BG:63:ILE:O	30:BG:102:PHE:CZ	2.69	0.45
31:BH:101:ARG:CZ	31:BH:117:PRO:HG3	2.47	0.45
31:BH:104:GLU:OE2	31:BH:105:LEU:N	2.50	0.45
31:BH:127:GLU:CB	31:BH:128:PRO:CA	2.94	0.45
24:BA:2746:U:C1'	31:BH:139:GLN:HB3	2.47	0.45
32:BK:10:GLU:OE1	32:BK:10:GLU:HA	2.17	0.45
33:BL:17:ALA:HB2	33:BL:42:ASN:ND2	2.27	0.45
33:BL:21:PRO:HG2	33:BL:22:PRO:HD3	1.96	0.45
35:BN:63:VAL:HA	35:BN:78:ARG:CD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:76:LYS:HA	36:BO:101:VAL:CG1	2.46	0.45
36:BO:83:VAL:O	36:BO:84:ASN:ND2	2.50	0.45
24:BA:1654:A:P	38:BQ:3:HIS:CG	3.10	0.45
38:BQ:63:ARG:NH1	38:BQ:80:PHE:HD2	2.09	0.45
39:BR:31:SER:OG	39:BR:32:LEU:N	2.48	0.45
39:BR:42:ASP:O	39:BR:44:LYS:N	2.40	0.45
40:BS:33:LYS:HD2	40:BS:45:PHE:O	2.17	0.45
40:BS:4:GLY:O	40:BS:8:LYS:HB2	2.17	0.45
40:BS:75:ILE:HG13	40:BS:75:ILE:H	1.39	0.45
41:BT:88:ILE:O	42:BU:51:VAL:O	2.34	0.45
43:BV:13:SER:HA	43:BV:101:SER:OG	2.17	0.45
43:BV:21:VAL:HG22	43:BV:25:ARG:HG3	1.98	0.45
43:BV:58:ALA:O	43:BV:63:ASP:HA	2.17	0.45
44:BW:29:TRP:CZ3	44:BW:78:LYS:HB2	2.52	0.45
44:BW:8:ILE:O	44:BW:9:LEU:HG	2.17	0.45
45:BX:97:ARG:NH2	45:BX:101:LYS:HD3	2.31	0.45
46:BY:10:ARG:HH12	46:BY:36:LYS:H	1.63	0.45
46:BY:155:LEU:HB3	46:BY:156:LYS:H	1.58	0.45
24:BA:923:C:H5'	47:BZ:26:TYR:CZ	2.51	0.45
47:BZ:49:LYS:O	47:BZ:51:VAL:HG23	2.17	0.45
32:BK:68:LEU:O	32:BK:72:LEU:CG	2.62	0.45
24:BA:2137:C:C2	24:BA:2138:C:C5	3.05	0.45
26:BC:7:TYR:HD1	26:BC:10:LEU:HB3	1.79	0.45
26:BC:32:LEU:HD13	26:BC:220:PRO:CB	2.47	0.45
24:BA:1579:A:C3'	24:BA:1580:A:H5'	2.45	0.45
24:BA:2183:C:N3	24:BA:2184:G:N7	2.64	0.45
27:BD:273:ARG:HE	27:BD:274:ARG:CA	2.29	0.45
15:AP:40:ASN:C	15:AP:42:ALA:H	2.20	0.45
8:AI:32:ASN:N	8:AI:32:ASN:ND2	2.64	0.45
1:AA:1015:A:C5	1:AA:1016:A:C6	3.04	0.45
1:AA:1075:C:H4'	1:AA:1101:A:H62	1.77	0.45
1:AA:1159:U:C2'	1:AA:1159:U:O2	2.65	0.45
1:AA:1202:G:C1'	16:AQ:29:ARG:CD	2.85	0.45
1:AA:1277:C:O2'	1:AA:1282:C:C2	2.70	0.45
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.81	0.45
1:AA:1521:G:C2'	1:AA:1522:U:O5'	2.65	0.45
1:AA:295:C:N4	1:AA:303:A:N1	2.64	0.45
1:AA:301:G:H2'	1:AA:301:G:N3	2.30	0.45
1:AA:513:C:N3	1:AA:514:C:C5	2.84	0.45
1:AA:559:A:H5'	1:AA:560:U:H5'	1.99	0.45
1:AA:589:C:H5'	10:AK:29:SER:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:702:A:H2'	1:AA:703:G:OP1	2.17	0.45
1:AA:724:G:N3	1:AA:724:G:H2'	2.32	0.45
1:AA:781:A:H2'	1:AA:782:A:O4'	2.17	0.45
1:AA:785:G:C2	1:AA:786:G:C8	3.05	0.45
1:AA:818:G:O2'	1:AA:819:A:OP1	2.29	0.45
1:AA:880:C:H2'	1:AA:881:G:O5'	2.17	0.45
1:AA:1339:A:H2	2:AC:31:G:HO2'	1.57	0.45
2:AC:31:G:N1	2:AC:40:C:N4	2.65	0.45
4:AE:101:MET:HA	4:AE:108:ILE:HG21	1.98	0.45
4:AE:144:ARG:HA	4:AE:147:LYS:HB2	1.98	0.45
4:AE:179:LYS:C	4:AE:181:PHE:H	2.21	0.45
4:AE:75:LYS:HZ2	4:AE:75:LYS:HA	1.82	0.45
4:AE:79:ASP:HA	4:AE:82:ARG:HB2	1.99	0.45
5:AF:11:ARG:HG2	5:AF:11:ARG:H	1.54	0.45
5:AF:127:ARG:C	5:AF:128:PHE:CD1	2.90	0.45
6:AG:117:ALA:O	6:AG:118:ARG:C	2.55	0.45
6:AG:125:HIS:HB3	6:AG:152:SER:HB2	1.95	0.45
6:AG:128:VAL:HG12	6:AG:129:ASN:H	1.79	0.45
1:AA:425:G:H4'	6:AG:45:GLN:OE1	2.16	0.45
6:AG:95:GLY:O	6:AG:98:GLU:N	2.50	0.45
7:AH:91:LEU:CD1	7:AH:110:LEU:HD11	2.46	0.45
7:AH:41:VAL:CG2	7:AH:113:ALA:HA	2.46	0.45
7:AH:78:HIS:CE1	7:AH:142:LEU:HA	2.51	0.45
7:AH:80:ILE:HD12	7:AH:91:LEU:O	2.17	0.45
7:AH:75:THR:OG1	7:AH:93:PRO:HA	2.17	0.45
9:AJ:125:MET:O	9:AJ:126:ASP:C	2.54	0.45
9:AJ:72:ARG:NH2	9:AJ:138:LYS:HZ1	2.07	0.45
9:AJ:15:ASP:HB2	9:AJ:23:VAL:CB	2.47	0.45
9:AJ:23:VAL:HG13	9:AJ:43:PHE:HZ	1.77	0.45
10:AK:36:LEU:C	10:AK:39:LEU:HB2	2.38	0.45
10:AK:88:LYS:O	10:AK:91:ARG:N	2.49	0.45
12:AM:98:ILE:N	12:AM:98:ILE:HD12	2.32	0.45
13:AN:73:MET:O	13:AN:74:ALA:C	2.55	0.45
13:AN:21:ILE:HG21	13:AN:98:LEU:HD11	1.99	0.45
14:AO:115:LYS:O	14:AO:116:SER:C	2.54	0.45
14:AO:43:VAL:HG13	14:AO:44:THR:H	1.82	0.45
14:AO:93:LEU:CD2	14:AO:93:LEU:N	2.72	0.45
1:AA:1308:U:H5'	15:AP:110:ARG:HH12	1.82	0.45
15:AP:39:ILE:HG13	15:AP:39:ILE:O	2.17	0.45
16:AQ:41:ARG:O	16:AQ:44:LEU:CD2	2.65	0.45
1:AA:754:C:C1'	17:AR:69:TYR:CG	2.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:9:VAL:HG13	19:AT:11:VAL:CG2	2.45	0.45
21:AV:38:SER:OG	21:AV:71:LEU:CD1	2.65	0.45
22:AW:40:ALA:HB2	22:AW:55:ILE:HG21	1.99	0.45
49:B2:6:VAL:CG2	49:B2:35:ARG:NH1	2.79	0.45
50:B3:21:VAL:CG1	50:B3:22:ILE:H	2.29	0.45
50:B3:16:CYS:SG	50:B3:37:SER:HB3	2.57	0.45
51:B4:22:HIS:O	51:B4:23:HIS:O	2.34	0.45
51:B4:4:HIS:CG	51:B4:5:PRO:N	2.81	0.45
53:B6:1:MET:O	53:B6:3:ARG:N	2.49	0.45
53:B6:17:GLY:CA	53:B6:21:ARG:HH22	2.27	0.45
24:BA:1044:G:C5	24:BA:1048:A:C8	3.05	0.45
24:BA:1060:U:H5''	24:BA:1061:U:C2	2.52	0.45
24:BA:1083:U:C2'	24:BA:1084:A:H5''	2.47	0.45
24:BA:1085:A:C4'	24:BA:1086:A:O5'	2.63	0.45
24:BA:1181:C:C4	24:BA:1182:A:N7	2.84	0.45
24:BA:1183:G:C1'	24:BA:1184:G:C8	3.00	0.45
24:BA:1277:G:H2'	24:BA:1278:A:C8	2.48	0.45
24:BA:1310:G:N7	24:BA:1311:G:N2	2.65	0.45
24:BA:1381:G:C6	24:BA:1382:G:C5	3.05	0.45
24:BA:1382:G:H2'	24:BA:1383:C:C6	2.52	0.45
24:BA:1526:G:H1	24:BA:1546:C:H42	1.65	0.45
24:BA:1291:C:C5'	24:BA:1535:U:O2'	2.58	0.45
24:BA:1795:C:O2'	24:BA:1796:U:C5'	2.56	0.45
24:BA:1860:G:N3	24:BA:1861:G:C8	2.85	0.45
24:BA:414:C:O2	24:BA:1864:U:H4'	2.17	0.45
24:BA:1931:U:H5	24:BA:1932:A:N7	2.15	0.45
24:BA:2219:G:C5	24:BA:2224:G:C8	3.04	0.45
24:BA:227:A:H2'	24:BA:228:A:OP2	2.17	0.45
24:BA:2305:A:C3'	24:BA:2306:C:C5'	2.87	0.45
24:BA:2333:A:C2'	24:BA:2333:A:N3	2.79	0.45
24:BA:2472:G:H2'	24:BA:2475:C:N4	2.17	0.45
24:BA:2572:A:H62	28:BE:145:LYS:CG	2.29	0.45
24:BA:2572:A:N3	28:BE:144:ARG:CZ	2.80	0.45
24:BA:2584:U:C1'	24:BA:2585:U:C5	3.00	0.45
24:BA:25:U:O2	24:BA:25:U:H2'	2.16	0.45
24:BA:270(D):C:O2	24:BA:270(D):C:H2'	2.15	0.45
24:BA:2849:U:H2'	24:BA:2850:A:OP2	2.17	0.45
24:BA:295:G:C2	24:BA:296:C:C2	3.05	0.45
24:BA:306:U:O4	24:BA:307:G:N3	2.50	0.45
24:BA:325:G:C6	24:BA:326:G:O6	2.69	0.45
24:BA:324:A:C2'	24:BA:325:G:O5'	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:36:G:N2	24:BA:450:G:HO2'	2.15	0.45
24:BA:392:C:OP1	24:BA:409:C:OP1	2.35	0.45
24:BA:477:A:C2	24:BA:478:A:C6	3.05	0.45
24:BA:478:A:N6	24:BA:480:A:C6	2.85	0.45
24:BA:49:A:H2	24:BA:120:U:C4	2.34	0.45
24:BA:523:C:H2'	24:BA:524:U:O4'	2.17	0.45
24:BA:581:C:H2'	24:BA:582:G:H8	1.82	0.45
24:BA:609(A):G:H2'	24:BA:610:C:C6	2.52	0.45
24:BA:628:G:P	24:BA:628:G:H8	2.40	0.45
24:BA:723:G:O2'	24:BA:724:U:C5'	2.64	0.45
24:BA:754:C:N3	24:BA:755:C:C5	2.85	0.45
24:BA:79:G:H2'	24:BA:80:G:C8	2.47	0.45
24:BA:809:G:C4	24:BA:810:U:C6	3.05	0.45
27:BD:142:VAL:HG23	27:BD:163:ALA:HB1	1.99	0.45
27:BD:11:PRO:HB2	27:BD:24:ILE:CD1	2.46	0.45
27:BD:65:ILE:HG22	27:BD:66:ASP:N	2.32	0.45
27:BD:63:ARG:HB2	27:BD:85:ASP:HB2	1.99	0.45
29:BF:157:VAL:HG22	29:BF:194:MET:CA	2.38	0.45
29:BF:158:THR:O	29:BF:160:ASN:OD1	2.34	0.45
15:AP:3:ARG:NH1	30:BG:113:ARG:C	2.70	0.45
30:BG:163:ALA:HB2	30:BG:172:LEU:HD23	1.99	0.45
33:BL:27:LEU:CB	33:BL:32:ALA:HB3	2.47	0.45
34:BM:14:VAL:HG22	34:BM:138:LEU:HD13	1.99	0.45
34:BM:23:LEU:HB2	34:BM:24:GLY:H	1.46	0.45
34:BM:35:ARG:HB2	34:BM:36:GLY:H	1.51	0.45
34:BM:98:VAL:O	34:BM:99:LEU:C	2.53	0.45
35:BN:12:ASP:HB2	35:BN:13:ASN:H	1.51	0.45
36:BO:24:GLY:O	36:BO:25:SER:C	2.56	0.45
36:BO:97:PRO:CD	36:BO:102:ARG:NH2	2.80	0.45
37:BP:64:ILE:CG2	37:BP:106:VAL:O	2.59	0.45
37:BP:128:LYS:O	37:BP:129:THR:CG2	2.64	0.45
37:BP:16:ARG:O	37:BP:17:LEU:HD12	2.17	0.45
37:BP:67:ARG:CG	37:BP:68:ILE:N	2.72	0.45
38:BQ:33:ARG:CA	38:BQ:115:GLU:HB2	2.47	0.45
38:BQ:62:ALA:CB	38:BQ:80:PHE:HZ	2.30	0.45
39:BR:64:GLU:C	39:BR:66:ALA:N	2.68	0.45
39:BR:68:GLN:O	39:BR:70:GLY:N	2.50	0.45
41:BT:14:HIS:CD2	41:BT:36:ARG:HH22	2.34	0.45
41:BT:56:ASP:O	41:BT:60:LEU:CD1	2.39	0.45
41:BT:55:ARG:CG	41:BT:58:ARG:NH2	2.46	0.45
41:BT:60:LEU:H	41:BT:60:LEU:CD1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:33:VAL:CG1	42:BU:34:GLU:H	2.26	0.45
42:BU:60:GLU:OE2	42:BU:101:GLY:CA	2.65	0.45
45:BX:50:ARG:C	45:BX:52:SER:O	2.55	0.45
46:BY:109:ALA:HB3	46:BY:142:SER:O	2.17	0.45
46:BY:50:GLN:CG	46:BY:53:ILE:HB	2.47	0.45
47:BZ:35:ASN:HD22	47:BZ:35:ASN:N	2.15	0.45
47:BZ:56:ASP:OD1	47:BZ:58:THR:HB	2.15	0.45
32:BK:139:GLN:H	32:BK:139:GLN:CD	2.20	0.45
3:AD:58:A:O2'	3:AD:60:U:C5	2.69	0.45
24:BA:2145:C:OP1	24:BA:2145:C:C6	2.69	0.45
26:BC:131:LEU:HD23	26:BC:136:LEU:HD12	1.98	0.45
26:BC:215:THR:HB	26:BC:221:SER:HA	1.99	0.45
26:BC:51:PRO:O	26:BC:52:ARG:C	2.55	0.45
26:BC:73:ARG:CB	26:BC:93:TYR:HE2	2.29	0.45
26:BC:73:ARG:CD	26:BC:92:ASP:CG	2.80	0.45
1:AA:525:C:H3'	1:AA:525:C:H6	1.81	0.45
1:AA:1063:C:H3'	1:AA:1064:G:H5''	1.98	0.45
1:AA:1089:G:H2'	1:AA:1089:G:N3	2.31	0.45
1:AA:108:G:OP1	1:AA:326:G:N2	2.49	0.45
1:AA:1141:C:H2'	1:AA:1142:G:H8	1.81	0.45
1:AA:120:A:C2	1:AA:122:G:C4	3.05	0.45
1:AA:1241:G:C4	1:AA:1242:C:C5	3.05	0.45
1:AA:1293:G:H2'	1:AA:1294:G:C8	2.52	0.45
1:AA:132:C:H5'	1:AA:262:A:C1'	2.44	0.45
1:AA:191(F):U:O2	22:AW:105:SER:HB2	2.17	0.45
1:AA:21:G:N2	1:AA:916:G:C6	2.82	0.45
1:AA:225:C:O2	1:AA:226:G:O4'	2.35	0.45
1:AA:11:G:H21	1:AA:24:U:C1'	2.30	0.45
1:AA:287:U:O2	1:AA:288:A:C8	2.70	0.45
1:AA:50:A:C6	1:AA:361:G:H4'	2.51	0.45
1:AA:522:C:N4	1:AA:523:A:H62	2.14	0.45
1:AA:593:G:C2'	1:AA:594:G:H5'	2.47	0.45
1:AA:648:A:H2'	1:AA:649:G:H5'	1.98	0.45
1:AA:657:G:C6	1:AA:658:G:N7	2.85	0.45
1:AA:689:C:O3'	1:AA:705:U:O2'	2.35	0.45
1:AA:701:C:O2	1:AA:703:G:N1	2.50	0.45
1:AA:756:C:C1'	10:AK:1:MET:HE3	2.47	0.45
1:AA:781:A:N6	1:AA:802:A:N9	2.65	0.45
1:AA:91:C:C2	1:AA:92:G:N7	2.85	0.45
1:AA:933:G:O5'	1:AA:933:G:H8	1.99	0.45
2:AC:40:C:C2'	2:AC:41:C:H5'	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:157:ARG:C	4:AE:158:LEU:HD23	2.37	0.45
4:AE:222:ILE:HB	4:AE:226:ARG:HH21	1.81	0.45
4:AE:25:ASN:HD21	4:AE:27:LYS:CB	2.29	0.45
5:AF:145:GLY:O	5:AF:146:ALA:CB	2.64	0.45
6:AG:180:GLY:O	6:AG:181:MET:C	2.54	0.45
6:AG:205:GLU:O	6:AG:206:PHE:C	2.55	0.45
6:AG:54:TYR:C	6:AG:56:VAL:N	2.69	0.45
7:AH:77:PRO:O	7:AH:78:HIS:O	2.35	0.45
9:AJ:12:LEU:HB2	9:AJ:24:THR:HG21	1.99	0.45
9:AJ:9:VAL:HG21	9:AJ:94:ARG:HD3	1.99	0.45
10:AK:10:LEU:HD11	10:AK:85:ARG:CB	2.45	0.45
10:AK:22:GLU:C	10:AK:63:LEU:HD11	2.37	0.45
10:AK:74:PRO:O	10:AK:75:ARG:C	2.55	0.45
11:AL:118:LYS:HA	11:AL:118:LYS:HD3	1.50	0.45
11:AL:75:ASP:O	11:AL:78:LYS:HB3	2.17	0.45
12:AM:5:ARG:CG	12:AM:5:ARG:HH11	2.28	0.45
13:AN:123:LYS:O	13:AN:126:ARG:HB2	2.17	0.45
13:AN:42:TRP:CZ3	13:AN:47:VAL:CG1	2.98	0.45
13:AN:84:VAL:HG23	13:AN:111:ASP:H	1.81	0.45
14:AO:110:VAL:HG23	14:AO:122:THR:OG1	2.17	0.45
14:AO:42:THR:HA	14:AO:55:VAL:HG23	1.98	0.45
14:AO:84:LEU:C	14:AO:84:LEU:HD23	2.37	0.45
15:AP:117:VAL:O	15:AP:118:ALA:HB2	2.17	0.45
17:AR:65:ARG:HB3	17:AR:65:ARG:CZ	2.46	0.45
17:AR:65:ARG:O	17:AR:68:ARG:CB	2.55	0.45
17:AR:79:ARG:CZ	17:AR:79:ARG:CB	2.95	0.45
19:AT:31:LEU:HD11	19:AT:32:TYR:CE2	2.52	0.45
20:AU:30:ASP:OD2	20:AU:32:ARG:HB2	2.17	0.45
20:AU:46:GLU:O	20:AU:48:GLY:N	2.44	0.45
21:AV:49:ILE:CD1	21:AV:51:VAL:HG22	2.47	0.45
21:AV:62:ILE:CG1	21:AV:63:THR:N	2.80	0.45
21:AV:70:LYS:O	21:AV:72:GLY:N	2.50	0.45
1:AA:1320:C:C2	21:AV:72:GLY:HA3	2.51	0.45
21:AV:78:ARG:HG2	21:AV:78:ARG:H	1.55	0.45
22:AW:93:GLU:C	22:AW:95:ALA:H	2.19	0.45
1:AA:1235:U:H5''	23:AX:3:LYS:HB2	1.99	0.45
24:BA:75:G:C4'	48:B1:50:ARG:HH12	2.30	0.45
48:B1:61:GLU:C	48:B1:64:ARG:HB2	2.36	0.45
49:B2:53:LEU:HG	49:B2:53:LEU:H	1.33	0.45
53:B6:43:THR:HA	53:B6:46:VAL:CB	2.45	0.45
36:BO:62:LEU:HD22	54:B7:64:TYR:OH	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:9:ARG:HH21	55:B8:16:VAL:HG12	1.78	0.45
24:BA:1079:C:N3	24:BA:1080:C:C5	2.85	0.45
24:BA:1137:G:H4'	34:BM:105:GLY:CA	2.47	0.45
24:BA:1187:G:H2'	24:BA:1188:U:OP2	2.17	0.45
24:BA:1195:G:C2'	24:BA:1226:G:H22	2.30	0.45
24:BA:126:A:OP2	53:B6:19:ARG:N	2.48	0.45
24:BA:128:C:H2'	24:BA:129:C:C5	2.49	0.45
24:BA:1306:C:C2	24:BA:1623:G:N2	2.85	0.45
24:BA:1324:G:O2'	24:BA:1616:A:N6	2.50	0.45
24:BA:1340:U:C2'	24:BA:1341:U:OP1	2.65	0.45
24:BA:1389:G:C2	24:BA:1390:U:C5	3.06	0.45
24:BA:1433:U:C6	24:BA:1433:U:H3'	2.51	0.45
24:BA:1444:G:C8	24:BA:1445:C:N4	2.85	0.45
24:BA:1453:A:N7	24:BA:1454:U:C6	2.85	0.45
24:BA:1299:G:N2	24:BA:1642:G:C6	2.85	0.45
24:BA:1667:G:C2	24:BA:1991:U:C5	3.05	0.45
24:BA:1667:G:C2'	24:BA:1667:G:N3	2.80	0.45
24:BA:1780:A:OP2	24:BA:1781:C:H3'	2.17	0.45
24:BA:1790:C:H5''	24:BA:1828:G:N2	2.31	0.45
24:BA:1790:C:OP2	27:BD:222:ARG:CD	2.62	0.45
24:BA:1851:U:C2'	24:BA:1852:C:C6	2.96	0.45
24:BA:1932:A:N7	24:BA:1933:G:N7	2.64	0.45
24:BA:1953:A:O2'	24:BA:2559:C:O2'	2.23	0.45
24:BA:1990:C:N3	24:BA:1991:U:C4	2.85	0.45
24:BA:1992:G:O4'	24:BA:1993:U:O4	2.34	0.45
24:BA:2010:G:C6	24:BA:2011:U:C6	3.05	0.45
24:BA:2082:A:H2'	24:BA:2083:G:O4'	2.17	0.45
24:BA:2091:U:H3'	24:BA:2092:U:H3'	1.98	0.45
24:BA:2213:U:H5'	24:BA:2215:G:O6	2.16	0.45
24:BA:2444:G:N2	24:BA:2445:G:C2	2.85	0.45
24:BA:2573:C:OP1	24:BA:2575:C:OP2	2.34	0.45
24:BA:2056:G:C4	24:BA:2577:A:C2	3.05	0.45
24:BA:1782:C:C2	24:BA:2609:U:C6	3.05	0.45
24:BA:2629:A:O2'	24:BA:2630:G:O5'	2.30	0.45
24:BA:2643:G:C4	24:BA:2644:G:N7	2.84	0.45
24:BA:2702:U:OP1	24:BA:2702:U:O4'	2.35	0.45
24:BA:2759:G:C2	24:BA:2760:C:C6	3.04	0.45
24:BA:2625:G:N1	24:BA:2777:G:N2	2.65	0.45
24:BA:2872:G:C2	24:BA:2873:A:C6	3.05	0.45
24:BA:301:G:H2'	24:BA:302:C:C5	2.51	0.45
24:BA:353:G:O2'	24:BA:354:G:O5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:36:G:N2	24:BA:450:G:O2'	2.50	0.45
24:BA:465:G:C8	24:BA:466:A:N7	2.85	0.45
24:BA:515:A:C3'	24:BA:515:A:C8	3.00	0.45
24:BA:528:A:N7	24:BA:2042:A:C5	2.85	0.45
24:BA:532:A:O2'	41:BT:38:THR:HG22	2.17	0.45
24:BA:569:U:OP2	24:BA:945:A:N6	2.50	0.45
24:BA:571:A:H1'	24:BA:573:G:N7	2.32	0.45
24:BA:28:A:O3'	24:BA:583:G:H5'	2.17	0.45
24:BA:637:A:P	36:BO:131:SER:HB3	2.57	0.45
24:BA:67:U:C6	24:BA:67:U:C4'	3.00	0.45
24:BA:785:G:C2'	24:BA:786:C:H6	2.28	0.45
24:BA:669:G:C6	24:BA:801:G:C6	3.05	0.45
24:BA:826:U:C5'	24:BA:2428:G:O3'	2.65	0.45
24:BA:83:G:O2'	24:BA:84:A:P	2.75	0.45
24:BA:848:G:O2'	24:BA:934:G:H4'	2.17	0.45
24:BA:863:A:C2	24:BA:864:G:C5	3.05	0.45
24:BA:889:C:H2'	24:BA:889:C:O2	2.15	0.45
24:BA:906:G:C2	24:BA:907:U:C5	3.05	0.45
24:BA:919:G:N2	24:BA:920:G:N9	2.64	0.45
25:BB:78:A:H2'	25:BB:79:C:C5'	2.44	0.45
27:BD:147:LEU:HD22	27:BD:185:VAL:HG21	1.98	0.45
27:BD:50:THR:O	27:BD:51:VAL:CG2	2.65	0.45
27:BD:64:ILE:CD1	27:BD:104:TYR:HD2	2.29	0.45
27:BD:96:HIS:HA	27:BD:102:LYS:CG	2.35	0.45
28:BE:58:ARG:HG2	28:BE:63:LEU:HD23	1.99	0.45
28:BE:83:ASP:O	28:BE:85:ASN:ND2	2.50	0.45
29:BF:117:ARG:NE	29:BF:190:GLU:O	2.50	0.45
29:BF:163:VAL:O	29:BF:167:ALA:HB3	2.16	0.45
30:BG:111:LEU:HB3	30:BG:112:PRO:HD2	1.90	0.45
30:BG:174:GLU:HG2	30:BG:175:LEU:N	2.31	0.45
30:BG:43:LEU:C	30:BG:43:LEU:HD23	2.37	0.45
30:BG:57:ALA:O	30:BG:67:LYS:CB	2.65	0.45
31:BH:41:MET:SD	31:BH:68:THR:OG1	2.74	0.45
31:BH:59:ARG:C	31:BH:62:LYS:HG2	2.35	0.45
32:BK:6:LEU:C	32:BK:6:LEU:CD2	2.85	0.45
33:BL:10:LEU:HB3	33:BL:27:LEU:HD21	1.99	0.45
33:BL:10:LEU:HD13	33:BL:27:LEU:CD2	2.39	0.45
33:BL:18:THR:CG2	33:BL:35:MET:HA	2.47	0.45
33:BL:34:ILE:HB	33:BL:35:MET:H	1.72	0.45
34:BM:114:ARG:C	34:BM:116:LEU:N	2.67	0.45
34:BM:52:VAL:CG1	34:BM:120:LEU:HD13	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:82:LEU:HD23	34:BM:82:LEU:N	2.31	0.45
35:BN:110:GLY:O	35:BN:111:PHE:HB3	2.17	0.45
35:BN:70:LYS:C	35:BN:72:PRO:HD2	2.38	0.45
35:BN:86:ILE:HG23	35:BN:90:GLN:CA	2.47	0.45
36:BO:114:ILE:CD1	36:BO:129:ALA:O	2.65	0.45
37:BP:11:LYS:HG2	37:BP:12:GLN:N	2.32	0.45
37:BP:134:ARG:CD	37:BP:134:ARG:C	2.77	0.45
38:BQ:73:VAL:CA	38:BQ:76:VAL:HB	2.44	0.45
39:BR:10:ARG:CZ	39:BR:89:ARG:NH1	2.80	0.45
39:BR:32:LEU:HD12	39:BR:32:LEU:N	2.25	0.45
40:BS:82:LEU:O	40:BS:85:LYS:HD3	2.16	0.45
41:BT:44:ASN:CA	41:BT:47:TYR:HB2	2.47	0.45
41:BT:52:ARG:C	41:BT:54:LYS:N	2.69	0.45
41:BT:65:ILE:HG21	41:BT:76:TYR:CE1	2.49	0.45
42:BU:3:ALA:O	42:BU:12:TYR:CD2	2.70	0.45
44:BW:26:TYR:CB	44:BW:28:PHE:CZ	2.97	0.45
45:BX:12:THR:HG22	45:BX:13:VAL:HG12	1.99	0.45
45:BX:38:ILE:HG12	45:BX:60:PHE:CZ	2.52	0.45
45:BX:38:ILE:HG22	45:BX:38:ILE:O	2.16	0.45
24:BA:83:G:H5'	45:BX:4:LYS:NZ	2.32	0.45
45:BX:49:VAL:CG2	45:BX:51:VAL:H	2.30	0.45
46:BY:1:MET:H1	46:BY:58:VAL:HG11	1.79	0.45
46:BY:57:ILE:HG23	46:BY:58:VAL:H	1.81	0.45
47:BZ:56:ASP:C	47:BZ:57:PHE:HD1	2.20	0.45
32:BK:69:LYS:HA	32:BK:138:ILE:HD12	1.97	0.45
26:BC:119:VAL:HG23	26:BC:123:VAL:HG23	1.99	0.45
3:AD:62:C:C5'	26:BC:52:ARG:HH11	2.30	0.45
26:BC:75:LEU:HD23	26:BC:77:ILE:CD1	2.44	0.45
24:BA:1497:U:C4	24:BA:1498:C:H5	2.35	0.45
1:AA:1004:A:H5''	1:AA:1025:U:N3	2.29	0.45
1:AA:999:U:C4	1:AA:1042:G:N1	2.85	0.45
24:BA:2185:C:N3	24:BA:2186:G:N7	2.64	0.45
24:BA:315:G:H2'	24:BA:316:C:O4'	2.17	0.45
46:BY:63:ASP:O	46:BY:63:ASP:OD1	2.35	0.45
24:BA:1116:C:OP2	24:BA:1116:C:H6	2.00	0.45
1:AA:142:G:H2'	1:AA:143:A:H8	1.81	0.45
1:AA:1108:G:C5	1:AA:1109:C:C4	3.05	0.44
1:AA:1260:C:H4'	1:AA:1284:C:H5''	1.98	0.44
1:AA:129(A):G:N2	1:AA:191(A):G:N7	2.65	0.44
1:AA:1376:U:OP1	9:AJ:98:SER:CB	2.65	0.44
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1475:G:C2'	1:AA:1476:G:O5'	2.65	0.44
1:AA:1393:U:HO2'	1:AA:1501:C:HO2'	1.65	0.44
1:AA:242:C:C2	1:AA:285:G:N2	2.85	0.44
1:AA:378:G:N3	1:AA:379:C:C5	2.85	0.44
1:AA:468:A:C5	1:AA:474:G:N7	2.84	0.44
1:AA:483:C:OP2	1:AA:484:G:C3'	2.59	0.44
1:AA:494:U:H2'	1:AA:495:A:O5'	2.17	0.44
1:AA:602:A:C6	1:AA:637:G:C6	3.04	0.44
1:AA:698:G:C2	1:AA:699:C:C2	3.05	0.44
1:AA:68:G:C2	1:AA:69:G:H1'	2.52	0.44
1:AA:745:C:H4'	1:AA:836:G:N2	2.32	0.44
1:AA:581:G:C6	1:AA:758:G:C8	3.05	0.44
1:AA:781:A:H61	1:AA:802:A:H1'	1.82	0.44
1:AA:835:U:H2'	1:AA:836:G:H8	1.82	0.44
1:AA:854:G:C6	1:AA:855:G:N7	2.85	0.44
1:AA:85:U:C4	1:AA:86:U:C5	3.05	0.44
1:AA:885:G:C2	1:AA:913:A:N1	2.85	0.44
1:AA:950:U:O4'	1:AA:971:G:C2	2.69	0.44
1:AA:9:G:O5'	7:AH:122:GLU:OE1	2.35	0.44
2:AC:44:A:C6	2:AC:45:G:C2	3.05	0.44
3:AD:6:G:HO2'	3:AD:7:G:C4'	2.30	0.44
4:AE:160:ASP:HA	4:AE:182:ILE:CG2	2.46	0.44
4:AE:208:ILE:HG21	4:AE:239:VAL:CG1	2.36	0.44
4:AE:29:ALA:O	4:AE:32:ILE:HB	2.17	0.44
1:AA:1112:C:H1'	5:AF:179:ARG:HH22	1.81	0.44
5:AF:52:LEU:O	5:AF:53:ALA:CB	2.65	0.44
5:AF:63:ASN:O	5:AF:64:VAL:HG23	2.16	0.44
6:AG:110:PHE:CE1	6:AG:148:VAL:HG23	2.52	0.44
6:AG:172:PRO:CG	6:AG:193:ASP:HB2	2.46	0.44
1:AA:923:A:C5'	7:AH:21:ALA:HB2	2.47	0.44
7:AH:16:THR:CG2	7:AH:28:PHE:HA	2.34	0.44
1:AA:826:C:H4'	10:AK:12:ARG:HB3	1.99	0.44
11:AL:8:GLY:O	11:AL:15:ALA:HB3	2.18	0.44
11:AL:28:VAL:HG23	11:AL:32:ASP:C	2.38	0.44
12:AM:61:GLU:HG2	12:AM:62:HIS:H	1.82	0.44
1:AA:706:A:O2'	13:AN:29:ILE:CD1	2.66	0.44
13:AN:40:ILE:HG12	13:AN:41:THR:N	2.33	0.44
14:AO:27:LEU:CD2	14:AO:33:ARG:HD3	2.38	0.44
14:AO:78:GLN:H	14:AO:81:SER:CB	2.30	0.44
15:AP:11:ARG:C	15:AP:13:LYS:N	2.71	0.44
16:AQ:16:PHE:O	16:AQ:18:VAL:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:24:CYS:HB3	16:AQ:28:GLY:O	2.17	0.44
18:AS:16:HIS:C	18:AS:17:TYR:HD1	2.20	0.44
20:AU:45:SER:HB3	20:AU:51:LEU:CD1	2.37	0.44
22:AW:38:LYS:O	22:AW:41:ILE:N	2.50	0.44
22:AW:72:LEU:HD22	22:AW:77:ALA:N	2.32	0.44
22:AW:63:ILE:HD13	22:AW:80:ARG:HB2	1.99	0.44
49:B2:6:VAL:CG1	49:B2:35:ARG:CZ	2.95	0.44
50:B3:53:GLU:OE1	50:B3:54:GLY:C	2.56	0.44
52:B5:17:LYS:CE	52:B5:49:HIS:O	2.65	0.44
24:BA:2392:A:P	54:B7:33:ASN:HD21	2.40	0.44
54:B7:5:LYS:HD3	54:B7:63:PRO:HG2	1.98	0.44
24:BA:83:G:C6	24:BA:102:G:N3	2.85	0.44
24:BA:1059:G:N7	24:BA:1060:U:O4'	2.50	0.44
24:BA:1153:C:C2'	24:BA:1154:G:C8	3.00	0.44
24:BA:1309:G:N1	24:BA:1310:G:C5	2.84	0.44
24:BA:1348:G:O6	24:BA:1349:A:N6	2.50	0.44
24:BA:1361:G:C5	24:BA:1362:C:C5	3.06	0.44
24:BA:1368:G:HO2'	24:BA:1369:G:H5'	1.81	0.44
24:BA:1387:C:C2	24:BA:1388:G:N7	2.84	0.44
24:BA:1469:A:N6	24:BA:1470:G:N2	2.64	0.44
24:BA:1543:A:C8	24:BA:1544:C:O2'	2.70	0.44
24:BA:1650:G:O2'	24:BA:1651:G:OP1	2.30	0.44
24:BA:1746:G:O2'	24:BA:1747:G:O4'	2.25	0.44
24:BA:1815:A:N7	24:BA:1817:G:N2	2.64	0.44
24:BA:1835:G:N3	24:BA:1931:U:O2	2.50	0.44
24:BA:1869:G:C4	24:BA:1878:G:O6	2.71	0.44
24:BA:2004:G:N7	24:BA:2005:A:C5	2.85	0.44
24:BA:2020:A:H2'	24:BA:2021:C:O5'	2.16	0.44
24:BA:529:A:C2	24:BA:2023:G:OP2	2.70	0.44
24:BA:2053:G:C2	24:BA:2054:A:C8	3.05	0.44
24:BA:2056:G:N2	24:BA:2057:A:C4	2.85	0.44
24:BA:2063:C:H2'	24:BA:2064:C:C4'	2.47	0.44
24:BA:2216:G:H2'	24:BA:2217:G:H5'	1.98	0.44
24:BA:2255:G:O4'	47:BZ:7:LEU:CD2	2.65	0.44
24:BA:2286:A:H62	52:B5:31:PRO:C	2.19	0.44
24:BA:2366:A:H2'	24:BA:2367:G:O4'	2.17	0.44
24:BA:675:A:H1'	24:BA:2443:C:O2'	2.17	0.44
24:BA:2468:G:O2'	24:BA:2469:A:O5'	2.35	0.44
24:BA:2474:C:H2'	24:BA:2475:C:H5'	1.97	0.44
24:BA:2486:G:N2	24:BA:2487:G:C4	2.85	0.44
24:BA:2566:A:H61	35:BN:28:SER:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2626:C:C3'	24:BA:2626:C:H6	2.26	0.44
24:BA:2680:C:OP1	28:BE:109:LYS:HB2	2.17	0.44
24:BA:2715:C:N3	24:BA:2716:U:C5	2.85	0.44
24:BA:2744:G:C6	24:BA:2761:G:C6	3.06	0.44
24:BA:2869:G:C2'	24:BA:2870:C:O5'	2.66	0.44
24:BA:2893:G:OP2	24:BA:2893:G:C8	2.71	0.44
24:BA:320:A:OP2	29:BF:137:LYS:HG2	2.17	0.44
24:BA:301:G:C5'	24:BA:334:C:HO2'	2.30	0.44
24:BA:295:G:H3'	24:BA:338:G:H22	1.81	0.44
24:BA:350:U:C5	24:BA:350:U:OP2	2.70	0.44
24:BA:396:G:H2'	24:BA:397:G:O5'	2.17	0.44
24:BA:445:C:H5"	41:BT:3:ARG:HG2	1.98	0.44
24:BA:487:C:C3'	24:BA:487:C:C6	3.00	0.44
24:BA:500:G:H2'	24:BA:501:A:H5"	1.98	0.44
24:BA:49:A:H5'	24:BA:50:U:OP1	2.17	0.44
24:BA:531:C:O4'	24:BA:532:A:C2	2.69	0.44
24:BA:729:G:C2'	24:BA:730:C:H1'	2.47	0.44
24:BA:751:A:C8	24:BA:751:A:C3'	3.00	0.44
24:BA:766:C:H2'	24:BA:767:U:O4'	2.17	0.44
24:BA:780:G:H1'	24:BA:785:G:N1	2.32	0.44
24:BA:870:A:H5'	24:BA:871:U:P	2.56	0.44
24:BA:991:C:H2'	24:BA:992:C:H6	1.82	0.44
25:BB:99:A:C2	25:BB:100:G:C1'	3.00	0.44
25:BB:113:C:H1'	39:BR:45:GLY:O	2.17	0.44
25:BB:17:C:H2'	25:BB:18:G:C8	2.52	0.44
25:BB:31:C:C4	25:BB:32:C:N4	2.84	0.44
25:BB:37:C:O2	39:BR:95:HIS:CD2	2.70	0.44
27:BD:122:ASP:HA	27:BD:135:PHE:HD2	1.82	0.44
24:BA:1818:U:H2'	27:BD:157:ARG:NH2	2.32	0.44
27:BD:133:LEU:HD21	27:BD:189:CYS:HB2	1.99	0.44
24:BA:1820:U:C1'	27:BD:202:LYS:HG3	2.46	0.44
27:BD:225:ALA:HB3	27:BD:231:HIS:CD2	2.50	0.44
27:BD:86:PRO:HD2	27:BD:87:ASN:ND2	2.31	0.44
28:BE:115:GLY:O	28:BE:118:LYS:N	2.50	0.44
28:BE:128:SER:C	28:BE:129:HIS:HD2	2.20	0.44
28:BE:100:GLU:N	28:BE:172:VAL:CG2	2.70	0.44
28:BE:76:ARG:HG3	28:BE:76:ARG:O	2.17	0.44
29:BF:130:ALA:O	29:BF:138:GLU:C	2.56	0.44
29:BF:178:PRO:C	29:BF:180:GLY:H	2.21	0.44
30:BG:16:ARG:CG	30:BG:16:ARG:HH21	2.30	0.44
31:BH:94:TYR:OH	31:BH:128:PRO:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:13:LYS:CD	31:BH:15:VAL:HA	2.37	0.44
31:BH:149:ARG:NH2	31:BH:164:TYR:HB3	2.31	0.44
31:BH:67:LEU:HD22	31:BH:67:LEU:N	2.32	0.44
33:BL:139:VAL:HG12	33:BL:139:VAL:O	2.15	0.44
34:BM:30:ILE:O	34:BM:33:LEU:CD1	2.65	0.44
35:BN:108:GLU:O	35:BN:109:LYS:CE	2.64	0.44
36:BO:73:GLY:N	36:BO:111:ARG:HG2	2.32	0.44
36:BO:130:PHE:CB	36:BO:135:LEU:CD1	2.95	0.44
37:BP:39:PRO:HB2	37:BP:40:ALA:H	1.46	0.44
37:BP:52:VAL:O	37:BP:53:ALA:C	2.54	0.44
38:BQ:110:PRO:O	38:BQ:111:LEU:HD23	2.17	0.44
38:BQ:75:LEU:HD23	38:BQ:75:LEU:HA	1.51	0.44
39:BR:23:ARG:HB3	39:BR:86:ALA:HB2	1.99	0.44
39:BR:91:PRO:CD	39:BR:92:TYR:H	2.30	0.44
24:BA:2376:A:N6	39:BR:94:TYR:CE2	2.82	0.44
40:BS:30:VAL:CB	40:BS:32:TYR:OH	2.65	0.44
41:BT:113:ALA:O	41:BT:116:ALA:N	2.51	0.44
41:BT:88:ILE:N	42:BU:52:VAL:CG2	2.80	0.44
41:BT:68:ALA:CB	41:BT:99:ALA:HB1	2.47	0.44
42:BU:93:GLU:OE1	42:BU:95:LEU:HA	2.17	0.44
43:BV:44:ALA:O	43:BV:47:VAL:CG2	2.65	0.44
43:BV:58:ALA:HB2	43:BV:107:LEU:CD2	2.47	0.44
24:BA:751:A:H4'	43:BV:90:ARG:CZ	2.47	0.44
24:BA:72:U:OP2	44:BW:3:THR:OG1	2.34	0.44
45:BX:97:ARG:NH1	45:BX:101:LYS:CB	2.80	0.44
45:BX:12:THR:HA	45:BX:73:ARG:HE	1.75	0.44
45:BX:81:LYS:NZ	45:BX:96:ILE:CD1	2.80	0.44
46:BY:77:ASP:O	46:BY:78:LYS:C	2.55	0.44
47:BZ:10:THR:O	47:BZ:11:ARG:HB3	2.16	0.44
47:BZ:74:ARG:HD3	47:BZ:75:LEU:H	1.82	0.44
32:BK:141:LYS:HG3	32:BK:141:LYS:O	2.17	0.44
24:BA:2132:U:C2	24:BA:2132:U:C3'	3.00	0.44
26:BC:129:ARG:NH1	26:BC:129:ARG:CG	2.77	0.44
26:BC:196:LEU:O	26:BC:198:ALA:N	2.50	0.44
26:BC:49:ILE:HB	26:BC:50:ASP:H	1.47	0.44
1:AA:1037:C:C4	1:AA:1038:C:C5	3.05	0.44
6:AG:47:ARG:CB	6:AG:47:ARG:NH1	2.64	0.44
24:BA:154:G:C4	24:BA:155:C:C5	3.05	0.44
4:AE:138:LEU:H	4:AE:138:LEU:HG	1.34	0.44
1:AA:434:U:H2'	1:AA:435:C:H6	1.81	0.44
14:AO:126:LYS:CD	14:AO:126:LYS:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:122:LYS:O	15:AP:123:ALA:HB2	2.17	0.44
1:AA:1056:U:H2'	1:AA:1056:U:O2	2.16	0.44
1:AA:1153:C:N4	1:AA:1154:G:O6	2.51	0.44
1:AA:1302:U:HO2'	1:AA:1303:C:P	2.33	0.44
1:AA:1305:G:N2	1:AA:1332:A:OP2	2.50	0.44
1:AA:1386:G:O2'	1:AA:1387:G:C5'	2.65	0.44
1:AA:1498:U:O2'	1:AA:1499:A:O5'	2.35	0.44
1:AA:1499:A:H8	1:AA:1499:A:O5'	2.00	0.44
1:AA:1518:A:C2	1:AA:1519:A:C2	3.05	0.44
1:AA:194:C:C2'	1:AA:195:A:C5'	2.88	0.44
1:AA:20:U:C4	1:AA:21:G:C2	3.05	0.44
1:AA:38:G:C4	1:AA:397:A:N6	2.86	0.44
1:AA:411:A:C5	1:AA:429:U:C5	3.06	0.44
1:AA:47:C:C5	1:AA:365:U:O2	2.70	0.44
1:AA:509:A:O2'	1:AA:510:A:O4'	2.26	0.44
1:AA:553:A:C2	1:AA:554:C:C2	3.05	0.44
1:AA:582:U:N3	1:AA:760:G:N1	2.66	0.44
1:AA:644:G:C5	1:AA:645:C:C5	3.05	0.44
1:AA:713:G:C2'	1:AA:714:G:C8	2.90	0.44
1:AA:725:G:H2'	1:AA:726:C:H6	1.82	0.44
1:AA:587:G:H1'	1:AA:755:G:N2	2.32	0.44
1:AA:961:U:H6	1:AA:983:A:C5	2.30	0.44
2:AC:5:G:N1	2:AC:6:G:C5	2.86	0.44
3:AD:68:U:C2	3:AD:69:C:C5	3.05	0.44
4:AE:114:ARG:O	4:AE:117:GLU:OE2	2.34	0.44
5:AF:11:ARG:CZ	5:AF:11:ARG:HB3	2.46	0.44
5:AF:47:LEU:CD1	5:AF:83:ARG:NH2	2.72	0.44
5:AF:50:ALA:C	5:AF:72:LYS:HD2	2.37	0.44
5:AF:55:VAL:HG11	5:AF:57:ILE:HD11	1.99	0.44
6:AG:13:ARG:NH1	6:AG:36:ARG:HB3	2.32	0.44
6:AG:88:VAL:CG1	6:AG:91:SER:H	2.28	0.44
7:AH:105:VAL:O	7:AH:106:PRO:C	2.55	0.44
7:AH:109:ILE:HD12	7:AH:135:THR:CG2	2.47	0.44
7:AH:89:ILE:HG12	7:AH:131:ILE:CD1	2.47	0.44
9:AJ:113:GLU:OE1	9:AJ:118:VAL:C	2.56	0.44
9:AJ:31:MET:CG	9:AJ:32:ARG:N	2.79	0.44
9:AJ:77:SER:C	9:AJ:156:TRP:CH2	2.89	0.44
10:AK:126:LYS:HZ1	10:AK:127:LEU:CB	2.23	0.44
12:AM:12:ASP:O	12:AM:16:LEU:HD23	2.18	0.44
13:AN:53:SER:O	13:AN:54:ARG:C	2.55	0.44
13:AN:88:GLY:O	13:AN:90:GLY:N	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:49:ILE:O	21:AV:49:ILE:HG13	2.15	0.44
21:AV:62:ILE:CG1	21:AV:63:THR:H	2.30	0.44
22:AW:89:ARG:HH21	22:AW:104:LEU:HD13	1.81	0.44
22:AW:90:GLN:O	22:AW:93:GLU:HB2	2.17	0.44
24:BA:989:G:OP1	49:B2:10:LYS:CE	2.64	0.44
50:B3:18:CYS:N	50:B3:33:VAL:CG2	2.77	0.44
50:B3:9:LEU:O	50:B3:10:VAL:HG23	2.17	0.44
38:BQ:100:LEU:O	51:B4:44:THR:HG21	2.16	0.44
51:B4:51:TYR:HD1	51:B4:54:GLY:CA	2.29	0.44
51:B4:51:TYR:CD2	51:B4:52:TYR:N	2.85	0.44
24:BA:2285:C:H6	52:B5:27:LYS:HZ3	1.64	0.44
53:B6:33:ARG:O	53:B6:37:LYS:HG3	2.18	0.44
53:B6:46:VAL:O	53:B6:47:ARG:C	2.55	0.44
36:BO:54:GLY:CA	54:B7:12:LYS:NZ	2.79	0.44
54:B7:21:LYS:NZ	54:B7:21:LYS:CB	2.70	0.44
36:BO:49:ARG:HA	54:B7:52:LYS:HD3	2.00	0.44
24:BA:1063:G:C8	24:BA:1064:C:C5	3.05	0.44
24:BA:1056:G:C2	24:BA:1102:C:C5	3.05	0.44
24:BA:1143:A:C4	24:BA:1144:G:N7	2.85	0.44
24:BA:116:C:C2'	24:BA:117:G:O5'	2.65	0.44
24:BA:1308:A:N3	24:BA:1309:G:C1'	2.80	0.44
24:BA:1332:G:C4	24:BA:1609:A:N1	2.86	0.44
24:BA:1401:G:C4	24:BA:1402:C:C6	3.05	0.44
24:BA:1449(A):G:C4	24:BA:1450:C:C5	3.05	0.44
24:BA:146:G:C3'	24:BA:147:U:C5'	2.86	0.44
24:BA:1472:A:C1'	24:BA:1473:G:C8	3.00	0.44
24:BA:1499:C:H2'	24:BA:1500:G:H8	1.82	0.44
24:BA:1547:C:C2'	24:BA:1548:C:H5'	2.47	0.44
24:BA:1613:G:OP1	53:B6:5:TRP:CD1	2.71	0.44
1:AA:1429:C:C4'	24:BA:1703:G:O2'	2.65	0.44
24:BA:1725:G:O6	24:BA:1734:C:N4	2.50	0.44
24:BA:178:G:C3'	24:BA:178:G:C8	3.00	0.44
24:BA:1833:U:C2'	24:BA:1834:U:OP1	2.65	0.44
1:AA:1496:C:O2'	24:BA:1920:C:H4'	2.17	0.44
24:BA:1954:G:HO2'	24:BA:1955:U:H5'	1.83	0.44
24:BA:1941:C:C6	24:BA:1965:C:C4	3.04	0.44
24:BA:2007:C:O2'	24:BA:2008:C:H5'	2.17	0.44
24:BA:2080:G:C2	24:BA:2081:C:C6	3.05	0.44
24:BA:1889:A:H1'	24:BA:2087:G:O4'	2.17	0.44
24:BA:2091:U:H3'	24:BA:2092:U:H5'	1.98	0.44
24:BA:2260:C:H2'	24:BA:2261:C:H6	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2277:G:C5	24:BA:2278:A:C8	3.05	0.44
24:BA:2360:A:OP2	24:BA:2360:A:H8	2.01	0.44
24:BA:2416:C:O5'	24:BA:2416:C:C6	2.66	0.44
24:BA:1129:A:O2'	24:BA:2515:C:H1'	2.16	0.44
24:BA:2524:G:C5	24:BA:2525:G:C8	3.05	0.44
24:BA:2548:G:H2'	24:BA:2549:G:O5'	2.17	0.44
24:BA:2639:A:C4	24:BA:2778:A:C2	3.04	0.44
24:BA:2659:G:H2'	24:BA:2660:A:H3'	1.98	0.44
24:BA:270(B):A:C4'	24:BA:270(C):C:C5	2.99	0.44
24:BA:270(S):G:N2	24:BA:270(T):G:C8	2.86	0.44
24:BA:1297:C:OP1	24:BA:2710:C:O3'	2.35	0.44
24:BA:2717:G:C2'	24:BA:2718:G:O5'	2.65	0.44
24:BA:2748:A:C5	24:BA:2757:A:N6	2.85	0.44
24:BA:2793:G:C2	24:BA:2794:C:C4	3.06	0.44
24:BA:2844:G:C6	24:BA:2845:G:C6	3.05	0.44
24:BA:30:G:C2'	24:BA:31:C:C6	2.80	0.44
24:BA:299:A:N1	24:BA:322:A:H2'	2.32	0.44
24:BA:433:C:C3'	24:BA:434:U:H6	2.30	0.44
24:BA:561:G:H5''	24:BA:561:G:H8	1.81	0.44
24:BA:690:G:C6	24:BA:691:C:N4	2.85	0.44
24:BA:692:C:C2'	24:BA:693:C:O5'	2.65	0.44
24:BA:729:G:OP1	27:BD:19:ALA:CB	2.65	0.44
24:BA:729:G:C5	24:BA:730:C:N1	2.85	0.44
24:BA:804:A:C5'	24:BA:805:G:OP1	2.64	0.44
24:BA:820:A:O2'	24:BA:836:G:N2	2.47	0.44
24:BA:849:A:C4	24:BA:850:C:C5	3.06	0.44
24:BA:85:G:C5'	45:BX:28:LYS:HE3	2.47	0.44
24:BA:878:A:N3	24:BA:878:A:H2'	2.31	0.44
24:BA:92:G:O5'	24:BA:92:G:H8	1.99	0.44
24:BA:847:U:O4	24:BA:933:A:C2	2.70	0.44
24:BA:942:G:N2	24:BA:943:U:H3	2.12	0.44
24:BA:990:A:OP1	24:BA:991:C:OP1	2.36	0.44
27:BD:135:PHE:HD1	27:BD:135:PHE:N	2.13	0.44
27:BD:109:ASP:N	27:BD:196:VAL:O	2.51	0.44
28:BE:122:PHE:H	28:BE:122:PHE:HD1	1.65	0.44
28:BE:122:PHE:O	28:BE:124:GLY:N	2.51	0.44
24:BA:1658:C:OP2	28:BE:134:ILE:CG2	2.64	0.44
28:BE:179:GLU:O	28:BE:180:ASN:C	2.55	0.44
28:BE:13:ARG:O	28:BE:19:ARG:CB	2.65	0.44
28:BE:33:VAL:HG23	28:BE:34:VAL:N	2.31	0.44
28:BE:37:ARG:HG2	28:BE:40:GLU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:46:ALA:O	28:BE:80:GLU:OE1	2.35	0.44
28:BE:51:PHE:HZ	28:BE:75:VAL:HG22	1.81	0.44
29:BF:116:ASP:HA	29:BF:119:ARG:HD2	1.99	0.44
29:BF:162:LEU:N	29:BF:162:LEU:CD2	2.76	0.44
29:BF:167:ALA:O	29:BF:173:VAL:CG2	2.65	0.44
29:BF:26:ALA:O	29:BF:112:MET:SD	2.75	0.44
29:BF:80:ALA:CB	29:BF:81:PRO:HD2	2.43	0.44
30:BG:135:LEU:HA	30:BG:135:LEU:HD22	1.85	0.44
30:BG:173:LEU:HA	30:BG:176:LEU:CB	2.24	0.44
30:BG:51:ARG:HH21	30:BG:51:ARG:CG	2.29	0.44
30:BG:60:LEU:CD2	30:BG:90:LEU:HD21	2.46	0.44
24:BA:1058:G:C2	33:BL:116:ASN:ND2	2.85	0.44
34:BM:13:TRP:CD1	34:BM:51:PHE:CB	3.01	0.44
36:BO:77:ARG:HG2	36:BO:117:GLU:OE1	2.17	0.44
36:BO:123:LEU:HD12	36:BO:130:PHE:CE1	2.48	0.44
36:BO:128:HIS:HA	36:BO:147:LEU:HD21	1.99	0.44
24:BA:631:A:OP2	36:BO:59:LEU:HD11	2.16	0.44
36:BO:77:ARG:C	36:BO:79:ARG:N	2.69	0.44
37:BP:42:ILE:HG22	37:BP:95:ALA:HB3	1.98	0.44
39:BR:100:ALA:C	39:BR:102:ALA:N	2.69	0.44
39:BR:24:LEU:CG	39:BR:25:ARG:N	2.80	0.44
39:BR:25:ARG:O	39:BR:40:ILE:O	2.35	0.44
39:BR:9:ARG:HH11	39:BR:9:ARG:CG	2.29	0.44
28:BE:8:LYS:HE3	40:BS:3:ARG:HG3	1.97	0.44
40:BS:79:HIS:N	40:BS:79:HIS:ND1	2.65	0.44
41:BT:108:GLU:C	41:BT:110:VAL:H	2.20	0.44
41:BT:111:GLU:CA	41:BT:114:LYS:HE3	2.45	0.44
41:BT:65:ILE:HG12	41:BT:95:LEU:HB2	1.98	0.44
42:BU:62:LEU:CD2	42:BU:99:ILE:H	2.19	0.44
43:BV:38:TYR:CE2	51:B4:39:MET:CE	3.01	0.44
24:BA:2013:A:OP1	43:BV:96:ILE:HB	2.17	0.44
44:BW:65:ARG:HB3	44:BW:70:LEU:CD2	2.48	0.44
46:BY:53:ILE:HG12	46:BY:58:VAL:CG2	2.47	0.44
47:BZ:31:VAL:O	47:BZ:31:VAL:HG22	2.16	0.44
47:BZ:53:MET:HE1	47:BZ:57:PHE:HA	1.94	0.44
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.52	0.44
24:BA:363(A):A:H2'	24:BA:363(B):G:O5'	2.17	0.44
1:AA:434:U:O5'	1:AA:434:U:H6	2.00	0.44
1:AA:431:A:H2'	1:AA:431:A:N3	2.32	0.44
1:AA:1046:A:C2	1:AA:1047:G:O4'	2.70	0.44
1:AA:1085:U:O2	1:AA:1094:G:C6	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1065:U:H5	1:AA:1190:G:C4	2.36	0.44
1:AA:111:G:N2	1:AA:24:U:C1'	2.80	0.44
1:AA:1238:A:N7	1:AA:1301:U:O4	2.50	0.44
1:AA:1314:C:C6	21:AV:6:LYS:CG	2.97	0.44
1:AA:1341:U:C6	1:AA:1341:U:H3'	2.53	0.44
1:AA:1407:C:C2	1:AA:1494:G:N2	2.85	0.44
1:AA:1413:A:N6	1:AA:1488:G:N1	2.64	0.44
1:AA:1424:C:C2	1:AA:1425:U:C6	3.06	0.44
1:AA:1443:G:HO2'	1:AA:1447:G:P	2.39	0.44
1:AA:1447:G:C4	1:AA:1448:C:C5	3.05	0.44
1:AA:1480:G:C2'	1:AA:1481:U:C5'	2.95	0.44
1:AA:1515:C:C2'	1:AA:1516:G:O5'	2.65	0.44
1:AA:17:U:C4'	1:AA:1080:A:H1'	2.47	0.44
1:AA:17:U:O2'	1:AA:18:C:C5'	2.65	0.44
1:AA:246:A:C2'	1:AA:247:G:OP2	2.65	0.44
1:AA:408:A:H5'	6:AG:116:GLN:HG2	1.99	0.44
1:AA:468:A:H1'	18:AS:82:GLN:HE21	1.83	0.44
1:AA:503:C:O2'	1:AA:510:A:N1	2.38	0.44
1:AA:549:C:C4	1:AA:550:G:N7	2.85	0.44
1:AA:557:G:H2'	1:AA:558:G:N9	2.32	0.44
1:AA:570:G:C8	1:AA:570:G:O5'	2.70	0.44
1:AA:754:C:O2'	17:AR:69:TYR:HB2	2.17	0.44
1:AA:781:A:C2'	1:AA:782:A:C5'	2.86	0.44
1:AA:881:G:C6	1:AA:882:C:C4	3.05	0.44
1:AA:963:G:H2'	1:AA:964:A:H8	1.83	0.44
2:AC:24:U:C2	2:AC:25:C:C6	3.05	0.44
3:AD:32:C:C2'	3:AD:33:U:H5'	2.47	0.44
4:AE:132:LYS:O	4:AE:136:VAL:HG23	2.18	0.44
4:AE:97:TRP:CE3	4:AE:172:ILE:HB	2.50	0.44
4:AE:235:SER:O	4:AE:238:LEU:HB3	2.17	0.44
4:AE:69:LEU:CD2	4:AE:91:PRO:HB2	2.45	0.44
5:AF:84:ILE:HG13	5:AF:101:LEU:CG	2.48	0.44
5:AF:124:ILE:HG23	5:AF:130:VAL:HG21	2.00	0.44
5:AF:160:ALA:O	5:AF:161:GLU:C	2.56	0.44
5:AF:174:PRO:HD2	5:AF:203:PHE:CZ	2.52	0.44
5:AF:84:ILE:HG13	5:AF:101:LEU:CB	2.48	0.44
6:AG:108:LEU:HD23	6:AG:170:VAL:HG11	1.97	0.44
6:AG:125:HIS:HB3	6:AG:152:SER:OG	2.16	0.44
6:AG:78:LEU:HD21	6:AG:96:LEU:CD2	2.47	0.44
8:AI:12:PRO:CG	8:AI:13:ASN:N	2.81	0.44
9:AJ:69:VAL:CG2	9:AJ:104:LEU:HD11	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:71:PRO:CG	9:AJ:91:VAL:HG11	2.48	0.44
11:AL:96:LEU:HD12	11:AL:101:PHE:HE1	1.83	0.44
11:AL:26:VAL:O	11:AL:31:GLN:O	2.35	0.44
11:AL:19:LEU:CD2	11:AL:59:PHE:CD2	2.97	0.44
13:AN:85:ARG:HD2	13:AN:113:PRO:CD	2.47	0.44
1:AA:718:G:H4'	13:AN:117:ASN:HD21	1.83	0.44
13:AN:47:VAL:O	13:AN:49:GLY:N	2.42	0.44
13:AN:79:SER:O	13:AN:80:VAL:HG23	2.17	0.44
15:AP:91:ARG:HD3	15:AP:96:LEU:HD11	1.97	0.44
17:AR:76:GLU:HG3	17:AR:77:ARG:H	1.79	0.44
19:AT:58:GLU:OE1	19:AT:75:ARG:HB3	2.17	0.44
21:AV:18:LYS:C	21:AV:18:LYS:HE3	2.36	0.44
21:AV:44:MET:HB2	21:AV:67:VAL:CG1	2.47	0.44
48:B1:36:ILE:CD1	48:B1:37:GLY:N	2.78	0.44
43:BV:23:LEU:HG	51:B4:25:LEU:HD21	1.99	0.44
43:BV:23:LEU:CD1	51:B4:25:LEU:HG	2.47	0.44
52:B5:41:PRO:HD2	52:B5:47:THR:O	2.18	0.44
53:B6:21:ARG:O	53:B6:28:ARG:N	2.50	0.44
54:B7:1:MET:H3	54:B7:2:PRO:HD2	1.79	0.44
54:B7:5:LYS:NZ	54:B7:64:TYR:CD1	2.81	0.44
55:B8:11:CYS:HB3	55:B8:32:HIS:NE2	2.31	0.44
24:BA:1054:A:H3'	24:BA:1054:A:C8	2.52	0.44
24:BA:1110:G:C3'	24:BA:1111:A:H8	2.30	0.44
24:BA:1186:G:H3'	24:BA:1186:G:C8	2.53	0.44
24:BA:1208:C:H6	24:BA:1208:C:O5'	2.00	0.44
24:BA:1225:C:O2'	24:BA:1226:G:C5'	2.57	0.44
24:BA:1264:G:O6	24:BA:1265:A:C6	2.69	0.44
24:BA:1280:G:H2'	24:BA:1281:G:C5'	2.47	0.44
24:BA:1332:G:C5	24:BA:1609:A:C6	3.05	0.44
24:BA:1354:A:N7	24:BA:1355:G:N9	2.66	0.44
24:BA:1407:C:N3	24:BA:1408:C:C5	2.85	0.44
24:BA:1429:G:C4	24:BA:1568:G:C6	3.05	0.44
24:BA:1488:G:C6	24:BA:1489:U:N1	2.85	0.44
24:BA:1542:G:H5'	24:BA:1542:G:N3	2.33	0.44
24:BA:175:G:N1	24:BA:176:G:C2	2.84	0.44
24:BA:1779:U:HO2'	24:BA:1783:A:N6	2.11	0.44
24:BA:1802:A:H61	24:BA:1822:G:H1'	1.83	0.44
24:BA:1806:C:O2'	27:BD:49:ILE:HG21	2.17	0.44
24:BA:1842:G:N1	24:BA:1901:A:C6	2.85	0.44
24:BA:1939:U:H1'	24:BA:2592:G:C4'	2.46	0.44
24:BA:2004:G:H2'	24:BA:2005:A:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2084:C:C2	24:BA:2085:C:C5	3.05	0.44
24:BA:2298:A:C4'	24:BA:2322:A:O2'	2.66	0.44
24:BA:2299:G:C6	24:BA:2318:G:N2	2.86	0.44
24:BA:2327:A:C6	24:BA:2388:A:N1	2.86	0.44
24:BA:243:U:C2	24:BA:244:A:H8	2.35	0.44
24:BA:2512:C:H2'	24:BA:2513:G:H4'	1.99	0.44
24:BA:2579:C:H6	24:BA:2579:C:C5'	2.28	0.44
24:BA:2620:C:C2'	24:BA:2621:A:O5'	2.65	0.44
24:BA:2694:G:H2'	24:BA:2695:C:H5'	1.99	0.44
24:BA:2705:A:H2'	24:BA:2706:G:O5'	2.17	0.44
24:BA:1754:C:C4	24:BA:2717:G:H5'	2.52	0.44
24:BA:2723:C:H2'	24:BA:2724:C:C5'	2.47	0.44
24:BA:2799:A:O2'	24:BA:2802:G:C4	2.70	0.44
24:BA:2804:C:C4	24:BA:2805:G:C6	3.05	0.44
24:BA:2839:G:O2'	38:BQ:92:GLY:CA	2.65	0.44
24:BA:282:A:C4	24:BA:283:A:O3'	2.70	0.44
24:BA:293:U:O2'	24:BA:294:A:O4'	2.28	0.44
24:BA:308:G:N3	24:BA:309:G:H1'	2.32	0.44
24:BA:351:G:O2'	24:BA:352:G:P	2.75	0.44
24:BA:450:G:C5'	29:BF:52:LYS:CD	2.95	0.44
24:BA:529:A:N7	24:BA:2023:G:C6	2.85	0.44
24:BA:582:G:C4	24:BA:583:G:N7	2.86	0.44
24:BA:630:G:HO2'	24:BA:631:A:H8	1.57	0.44
24:BA:701:G:N1	24:BA:732:C:C4	2.85	0.44
24:BA:783:A:C2	24:BA:785:G:O4'	2.70	0.44
24:BA:82:G:OP2	24:BA:82:G:H8	2.00	0.44
24:BA:975:G:O6	24:BA:976:C:H5	1.99	0.44
25:BB:15:A:H1'	25:BB:109:G:N7	2.33	0.44
25:BB:33:G:C2'	25:BB:34:U:H6	2.27	0.44
25:BB:43:C:N4	25:BB:45:A:C6	2.86	0.44
25:BB:48:A:H2'	25:BB:49:C:H6	1.70	0.44
25:BB:66:A:C2	25:BB:107:U:C2	3.05	0.44
25:BB:76:G:H2'	25:BB:77:U:C2	2.52	0.44
27:BD:148:GLU:H	27:BD:186:HIS:HE1	1.65	0.44
24:BA:1818:U:H2'	27:BD:157:ARG:HH21	1.83	0.44
27:BD:5:LYS:NZ	27:BD:31:LYS:HZ1	2.14	0.44
24:BA:1816:G:C6	27:BD:38:LYS:HE2	2.53	0.44
27:BD:38:LYS:C	27:BD:39:LYS:HD2	2.38	0.44
27:BD:50:THR:C	27:BD:51:VAL:HG23	2.36	0.44
27:BD:70:TRP:C	27:BD:73:VAL:HG13	2.37	0.44
28:BE:120:TRP:CH2	28:BE:122:PHE:CB	2.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:108:SER:CB	28:BE:163:GLU:O	2.65	0.44
28:BE:176:ILE:HG23	28:BE:181:LEU:O	2.18	0.44
28:BE:23:VAL:CG2	28:BE:184:VAL:HG22	2.29	0.44
28:BE:171:GLU:H	28:BE:185:LYS:HE2	1.82	0.44
28:BE:27:LEU:HA	28:BE:76:ARG:HH12	1.82	0.44
28:BE:36:ARG:HD3	28:BE:41:LYS:HZ2	1.72	0.44
29:BF:136:THR:O	29:BF:139:PHE:N	2.50	0.44
29:BF:156:LEU:HB3	29:BF:163:VAL:CG1	2.47	0.44
29:BF:157:VAL:O	29:BF:158:THR:CB	2.65	0.44
29:BF:53:THR:O	29:BF:56:GLU:CD	2.56	0.44
30:BG:39:ILE:H	30:BG:39:ILE:HD12	1.78	0.44
31:BH:149:ARG:HG2	31:BH:153:LYS:CG	2.47	0.44
31:BH:66:GLY:O	31:BH:69:ARG:HG2	2.17	0.44
31:BH:72:ILE:HG12	31:BH:72:ILE:H	1.58	0.44
31:BH:89:ILE:HG23	31:BH:128:PRO:O	2.17	0.44
32:BK:2:LYS:HD2	32:BK:44:LEU:HD21	1.99	0.44
33:BL:103:GLN:NE2	33:BL:106:GLU:OE1	2.50	0.44
33:BL:17:ALA:O	33:BL:18:THR:CB	2.65	0.44
34:BM:37:LYS:NZ	34:BM:43:THR:HG23	2.29	0.44
34:BM:6:PRO:O	34:BM:7:LYS:O	2.35	0.44
35:BN:106:LEU:O	35:BN:109:LYS:CG	2.66	0.44
35:BN:10:VAL:CG1	35:BN:14:THR:HB	2.47	0.44
35:BN:1:MET:HG3	35:BN:2:ILE:N	2.33	0.44
35:BN:21:CYS:SG	35:BN:40:VAL:O	2.66	0.44
35:BN:88:ASN:ND2	35:BN:89:ASN:N	2.66	0.44
36:BO:106:LEU:O	36:BO:107:LYS:HB3	2.17	0.44
36:BO:134:ALA:O	36:BO:135:LEU:C	2.56	0.44
36:BO:70:GLN:HB2	36:BO:110:TYR:CZ	2.51	0.44
36:BO:7:ARG:H	36:BO:7:ARG:HD2	1.81	0.44
39:BR:106:ARG:CD	39:BR:107:GLU:CD	2.85	0.44
39:BR:62:LYS:C	39:BR:64:GLU:H	2.20	0.44
40:BS:24:PRO:C	40:BS:25:GLY:O	2.54	0.44
40:BS:50:ILE:HB	40:BS:66:VAL:CA	2.47	0.44
40:BS:2:ASN:HA	40:BS:6:LEU:HD11	1.99	0.44
40:BS:95:ARG:CZ	40:BS:95:ARG:HB3	2.47	0.44
41:BT:26:GLY:O	41:BT:27:LEU:HB2	2.17	0.44
41:BT:88:ILE:CA	42:BU:52:VAL:HG22	2.48	0.44
42:BU:61:VAL:O	42:BU:99:ILE:O	2.34	0.44
24:BA:2013:A:C4'	43:BV:96:ILE:HG22	2.46	0.44
45:BX:48:ALA:N	45:BX:56:PRO:HG3	2.30	0.44
46:BY:114:GLY:N	46:BY:145:GLU:OE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:10:ARG:HG2	46:BY:36:LYS:CB	2.47	0.44
46:BY:7:ALA:HB2	46:BY:38:TYR:CD2	2.53	0.44
32:BK:69:LYS:HD2	32:BK:70:LYS:HG3	2.00	0.44
3:AD:63:G:C2	3:AD:64:C:N3	2.86	0.44
24:BA:2110:G:C5	24:BA:2120:G:C8	3.06	0.44
24:BA:2148:G:N2	24:BA:2149:G:C4	2.84	0.44
24:BA:2165:G:C8	24:BA:2166:G:C8	3.06	0.44
24:BA:2175:C:OP1	26:BC:5:LYS:CB	2.63	0.44
24:BA:1585:C:H4'	24:BA:1586:A:OP1	2.13	0.44
32:BK:136:VAL:CG2	32:BK:136:VAL:O	2.60	0.44
1:AA:1039:C:C2	1:AA:1040:U:C5	3.05	0.44
24:BA:273(C):C:O5'	24:BA:273(C):C:H6	1.99	0.44
24:BA:363(F):A:N3	24:BA:363(F):A:H2'	2.32	0.44
1:AA:1191:A:H5''	5:AF:4:LYS:CE	2.47	0.44
1:AA:1230:C:C2'	1:AA:1231:G:H5'	2.46	0.44
1:AA:1326:C:N3	1:AA:1327:C:C5	2.84	0.44
1:AA:945:G:C2	1:AA:1337:G:C4	3.06	0.44
1:AA:1368:G:N2	1:AA:1369:C:H1'	2.33	0.44
1:AA:1287:A:N6	1:AA:1371:G:C4'	2.77	0.44
1:AA:1371:G:O6	1:AA:1372:U:C4	2.70	0.44
1:AA:1388:C:O2'	1:AA:1389:C:H5'	2.17	0.44
1:AA:1472:U:C6	1:AA:1472:U:C3'	3.00	0.44
1:AA:1507:A:N1	1:AA:1530:G:C8	2.84	0.44
1:AA:1507:A:C2	1:AA:1530:G:C1'	3.00	0.44
1:AA:1530:G:O6	1:AA:1531:A:C2	2.71	0.44
1:AA:192:U:C2'	1:AA:193:C:O5'	2.66	0.44
1:AA:253:U:OP2	19:AT:67:LYS:HE3	2.18	0.44
1:AA:39:G:H2'	1:AA:40:C:O5'	2.17	0.44
1:AA:533:A:HO2'	1:AA:534:U:P	2.41	0.44
1:AA:543:C:C2	1:AA:544:G:N7	2.86	0.44
1:AA:713:G:H2'	1:AA:714:G:N7	2.31	0.44
1:AA:73:G:C6	1:AA:74:C:N4	2.85	0.44
1:AA:754:C:C3'	1:AA:754:C:O2	2.65	0.44
1:AA:777:A:O2'	1:AA:778:G:H5'	2.17	0.44
1:AA:779:C:O2'	1:AA:780:A:H5'	2.17	0.44
1:AA:780:A:P	13:AN:122:LYS:HA	2.57	0.44
1:AA:790:A:C6	1:AA:791:G:C4	3.06	0.44
1:AA:792:A:C2	1:AA:794:A:C6	3.06	0.44
1:AA:931:C:C2'	1:AA:931:C:O2	2.65	0.44
1:AA:962:C:N4	1:AA:963:G:C6	2.86	0.44
1:AA:1541:U:C2	2:AC:35:A:N1	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:61:C:C2'	2:AC:62:C:O5'	2.66	0.44
3:AD:32:C:H2'	3:AD:33:U:H5'	2.00	0.44
4:AE:110:GLN:O	4:AE:113:HIS:HB3	2.17	0.44
4:AE:154:LEU:O	4:AE:156:LYS:N	2.50	0.44
4:AE:69:LEU:HB2	4:AE:159:PRO:CB	2.47	0.44
4:AE:9:GLU:CG	4:AE:217:ARG:HH21	2.27	0.44
4:AE:215:LEU:HD22	4:AE:218:ALA:HB3	1.99	0.44
4:AE:57:PHE:HD1	4:AE:199:TYR:CE1	2.33	0.44
5:AF:156:ARG:HE	5:AF:193:TYR:HD1	1.65	0.44
6:AG:108:LEU:C	6:AG:110:PHE:H	2.20	0.44
7:AH:50:GLU:HB2	7:AH:53:LEU:HD23	1.98	0.44
7:AH:53:LEU:O	7:AH:57:LYS:CB	2.65	0.44
8:AI:45:LEU:HD23	8:AI:58:GLY:C	2.37	0.44
9:AJ:100:ALA:HA	9:AJ:103:TRP:HE3	1.82	0.44
9:AJ:122:HIS:O	9:AJ:126:ASP:OD1	2.36	0.44
9:AJ:14:PRO:HG3	9:AJ:21:VAL:HG12	1.99	0.44
1:AA:1240:U:C1'	9:AJ:42:ILE:HD11	2.47	0.44
10:AK:102:ARG:HH11	10:AK:102:ARG:CG	2.25	0.44
1:AA:825:G:O3'	10:AK:12:ARG:NH2	2.50	0.44
11:AL:53:VAL:O	11:AL:54:ASP:CB	2.65	0.44
14:AO:103:GLY:CA	14:AO:107:ALA:O	2.66	0.44
15:AP:27:LYS:HZ3	15:AP:31:LYS:NZ	2.15	0.44
15:AP:91:ARG:CB	15:AP:98:VAL:HG22	2.33	0.44
17:AR:27:VAL:O	17:AR:28:GLN:C	2.56	0.44
17:AR:34:LEU:O	17:AR:38:ARG:HG2	2.17	0.44
18:AS:26:ARG:HH11	18:AS:26:ARG:HG2	1.81	0.44
18:AS:68:ASP:O	18:AS:69:THR:C	2.55	0.44
20:AU:33:ASP:O	20:AU:69:THR:HG23	2.18	0.44
8:AI:91:VAL:HG21	20:AU:72:ARG:NH1	2.33	0.44
21:AV:43:GLU:O	21:AV:47:HIS:NE2	2.49	0.44
21:AV:55:LYS:O	21:AV:56:GLN:NE2	2.50	0.44
22:AW:25:ARG:HB2	22:AW:25:ARG:NH1	2.33	0.44
24:BA:2285:C:C5	52:B5:27:LYS:CE	2.98	0.44
52:B5:17:LYS:HZ3	52:B5:50:ARG:CA	2.29	0.44
54:B7:9:GLY:O	54:B7:13:ARG:O	2.35	0.44
24:BA:1084:A:C5'	24:BA:1085:A:OP2	2.64	0.44
24:BA:1202:C:N4	24:BA:1241:A:N6	2.65	0.44
24:BA:1326:U:N3	24:BA:1327:C:C6	2.85	0.44
24:BA:1336:A:O2'	24:BA:1337:G:H5'	2.17	0.44
24:BA:1420:U:N1	24:BA:1420:U:OP2	2.50	0.44
24:BA:1441:G:C2	24:BA:1442:G:C8	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1470:G:H2'	24:BA:1471:A:OP2	2.16	0.44
24:BA:149:A:N7	24:BA:150:C:N1	2.66	0.44
24:BA:1505:C:OP2	24:BA:1505:C:C6	2.70	0.44
24:BA:754:C:C4'	24:BA:1618:A:C2	2.93	0.44
24:BA:1630:G:C4'	24:BA:2698:U:OP1	2.66	0.44
24:BA:1729:A:H3'	24:BA:1730:U:O4'	2.17	0.44
24:BA:1716:U:C1'	24:BA:1746:G:N2	2.80	0.44
24:BA:1748:G:O2'	24:BA:1749:A:H5'	2.17	0.44
24:BA:1751:C:O2'	24:BA:1752:C:H5'	2.17	0.44
24:BA:1823:G:N1	24:BA:1824:G:N7	2.65	0.44
24:BA:1907:G:H2'	24:BA:1908:C:C6	2.51	0.44
24:BA:1969:A:C5'	24:BA:1970:A:OP1	2.65	0.44
24:BA:2042:A:H2'	24:BA:2043:C:C5'	2.44	0.44
24:BA:2078:C:C2	24:BA:2079:U:C5	3.05	0.44
24:BA:208:C:H2'	24:BA:209:C:C6	2.53	0.44
24:BA:2232:U:H2'	24:BA:2233:U:O5'	2.17	0.44
24:BA:2241:A:H2'	24:BA:2242:G:C8	2.51	0.44
24:BA:2424:C:H2'	24:BA:2424:C:O2	2.17	0.44
24:BA:2436:G:C4	24:BA:2437:U:C6	3.06	0.44
24:BA:2061:G:C5	24:BA:2503:A:C2	3.06	0.44
24:BA:251:A:OP2	24:BA:251:A:C8	2.70	0.44
24:BA:256:A:C2	24:BA:257:A:C5	3.06	0.44
24:BA:270(T):G:C2	24:BA:270(U):C:C2	3.05	0.44
24:BA:2715:C:C2	24:BA:2716:U:C6	3.05	0.44
24:BA:2728:U:H2'	24:BA:2729:G:C8	2.52	0.44
24:BA:2523:G:C4	24:BA:2765:A:N6	2.86	0.44
24:BA:280:C:C4	24:BA:283:A:N6	2.80	0.44
24:BA:2821:A:OP2	24:BA:2822:G:P	2.76	0.44
24:BA:366:C:H5'	24:BA:403:U:C4	2.52	0.44
24:BA:373:U:H3	24:BA:400:G:N2	2.16	0.44
24:BA:422:A:H2	24:BA:423:A:O4'	2.01	0.44
24:BA:447:A:C6	24:BA:473:G:C4	3.05	0.44
24:BA:470:A:N3	24:BA:471:A:C1'	2.80	0.44
24:BA:479:A:C1'	24:BA:480:A:H8	2.24	0.44
24:BA:543:C:N3	24:BA:551:G:C2	2.86	0.44
24:BA:585:G:C2'	24:BA:586:A:N7	2.81	0.44
24:BA:760:G:C4	24:BA:761:A:C8	3.06	0.44
24:BA:811:U:HO2'	24:BA:812:C:P	2.39	0.44
24:BA:852:G:C5	24:BA:853:G:N7	2.86	0.44
24:BA:870:A:C5'	24:BA:871:U:OP2	2.64	0.44
24:BA:955:C:O2'	24:BA:956:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:140:THR:C	27:BD:165:ILE:HD13	2.37	0.44
27:BD:173:VAL:O	27:BD:184:LYS:HA	2.18	0.44
27:BD:130:ALA:CB	27:BD:192:THR:HA	2.48	0.44
27:BD:63:ARG:NH2	27:BD:85:ASP:HA	2.32	0.44
28:BE:176:ILE:CG2	28:BE:181:LEU:O	2.65	0.44
28:BE:11:MET:C	28:BE:21:VAL:HB	2.38	0.44
28:BE:66:HIS:O	28:BE:68:ALA:N	2.51	0.44
24:BA:600:G:O4'	29:BF:105:VAL:HG21	2.18	0.44
29:BF:11:VAL:HG13	29:BF:127:GLU:CB	2.46	0.44
29:BF:6:VAL:CG2	29:BF:6:VAL:O	2.65	0.44
30:BG:105:LYS:HZ3	30:BG:106:LEU:HD23	1.82	0.44
30:BG:131:TYR:CG	30:BG:158:ALA:HA	2.52	0.44
30:BG:170:ARG:NH1	30:BG:170:ARG:CG	2.74	0.44
33:BL:106:GLU:OE1	33:BL:107:ILE:N	2.50	0.44
33:BL:55:VAL:CG2	33:BL:69:THR:HA	2.40	0.44
34:BM:122:VAL:HG22	34:BM:124:ALA:H	1.83	0.44
34:BM:68:GLU:N	34:BM:70:LYS:HZ3	2.15	0.44
34:BM:6:PRO:HA	34:BM:41:ASP:CG	2.37	0.44
34:BM:71:ILE:CD1	34:BM:90:MET:HE3	2.21	0.44
35:BN:11:ALA:HB3	35:BN:97:ARG:HD3	1.99	0.44
35:BN:3:GLN:OE1	35:BN:33:ALA:HB3	2.18	0.44
35:BN:15:GLY:O	35:BN:46:ALA:O	2.36	0.44
36:BO:15:ARG:HH21	36:BO:15:ARG:CG	2.23	0.44
24:BA:811:U:O4	36:BO:23:PRO:CD	2.65	0.44
36:BO:92:GLU:N	36:BO:92:GLU:CD	2.69	0.44
37:BP:11:LYS:HG2	37:BP:12:GLN:H	1.82	0.44
37:BP:26:TYR:N	37:BP:102:VAL:CB	2.65	0.44
37:BP:49:ALA:O	37:BP:50:ALA:C	2.55	0.44
38:BQ:118:GLU:OE2	38:BQ:118:GLU:CA	2.56	0.44
38:BQ:26:LYS:HA	38:BQ:29:LEU:HD12	1.99	0.44
38:BQ:61:HIS:O	38:BQ:63:ARG:N	2.51	0.44
39:BR:40:ILE:HD11	39:BR:47:THR:HG23	1.98	0.44
39:BR:71:ARG:HB3	39:BR:107:GLU:CG	2.47	0.44
35:BN:79:PHE:CE1	40:BS:106:SER:HB3	2.53	0.44
40:BS:54:ARG:O	40:BS:64:ARG:CB	2.46	0.44
40:BS:58:ASN:N	40:BS:61:PHE:CD2	2.85	0.44
43:BV:60:ASN:ND2	43:BV:61:ASN:ND2	2.65	0.44
24:BA:1615:C:C2	43:BV:87:PRO:HG3	2.53	0.44
46:BY:113:ALA:HB1	46:BY:145:GLU:CD	2.38	0.44
46:BY:2:GLU:HB3	46:BY:47:VAL:HG11	1.97	0.44
25:BB:12:C:C4'	47:BZ:74:ARG:NE	2.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:17:U:C5'	3:AD:18:G:O5'	2.66	0.44
3:AD:22:G:C2'	3:AD:23:A:C8	2.80	0.44
3:AD:58:A:C4	3:AD:61:C:C5	3.05	0.44
26:BC:131:LEU:HD12	26:BC:137:LEU:HA	2.00	0.44
26:BC:59:ARG:HG3	26:BC:163:PHE:O	2.18	0.44
26:BC:223:ARG:CB	26:BC:223:ARG:NH1	2.80	0.44
26:BC:223:ARG:HB2	26:BC:223:ARG:CZ	2.48	0.44
4:AE:7:VAL:CG2	4:AE:8:LYS:N	2.62	0.44
1:AA:1003:G:N2	1:AA:1004:A:HO2'	2.15	0.44
24:BA:2195:C:C2'	24:BA:2196:C:C5'	2.93	0.44
25:BB:2:C:H2'	25:BB:3:C:O5'	2.17	0.44
15:AP:40:ASN:O	15:AP:42:ALA:N	2.47	0.44
13:AN:128:ALA:O	13:AN:129:SER:CB	2.63	0.44
26:BC:37:PHE:CG	26:BC:37:PHE:O	2.70	0.44
1:AA:1017:G:H2'	1:AA:1018:C:O5'	2.17	0.44
1:AA:69:G:C2	1:AA:101:A:C2	3.05	0.44
1:AA:1103:C:HO2'	4:AE:111:ARG:CD	2.22	0.44
1:AA:1117:G:O2'	11:AL:106:ALA:HB2	2.17	0.44
1:AA:1215:G:N2	1:AA:1216:G:C8	2.85	0.44
1:AA:1256:A:H61	1:AA:1278:U:C1'	2.30	0.44
1:AA:1126:U:H5'	1:AA:1281:U:O4'	2.17	0.44
1:AA:1293:G:H2'	1:AA:1294:G:H8	1.83	0.44
1:AA:1361:G:C2'	1:AA:1362:C:H5'	2.48	0.44
1:AA:1372:U:C4	1:AA:1373:G:C5	3.06	0.44
1:AA:1438:G:N2	1:AA:1464:G:H1'	2.33	0.44
1:AA:1483:A:C2'	1:AA:1484:C:C5'	2.95	0.44
1:AA:1499:A:C5	1:AA:1500:A:N7	2.85	0.44
1:AA:173:U:H5''	1:AA:197:A:C1'	2.39	0.44
1:AA:283:C:O2	1:AA:284:G:O4'	2.35	0.44
1:AA:293:G:N3	1:AA:294:U:C6	2.85	0.44
1:AA:398:C:H6	1:AA:398:C:O5'	2.01	0.44
1:AA:427:U:C6	1:AA:427:U:O5'	2.71	0.44
1:AA:505:G:OP2	1:AA:534:U:H2'	2.18	0.44
1:AA:509:A:O2'	1:AA:510:A:H5'	2.17	0.44
1:AA:712:A:O2'	1:AA:713:G:C5'	2.66	0.44
1:AA:790:A:N6	1:AA:791:G:C6	2.85	0.44
1:AA:827:U:H4'	10:AK:19:VAL:HG21	1.99	0.44
1:AA:843:U:O2'	1:AA:848:C:P	2.75	0.44
1:AA:849:C:H2'	1:AA:850:U:H6	1.83	0.44
1:AA:913:A:O2'	1:AA:914:A:P	2.76	0.44
1:AA:928:G:N1	1:AA:1390:U:C2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:29:C:O2'	3:AD:30:G:H5'	2.16	0.44
4:AE:15:VAL:HB	4:AE:16:HIS:H	1.56	0.44
4:AE:25:ASN:O	4:AE:26:PRO:C	2.55	0.44
4:AE:54:THR:OG1	4:AE:201:ILE:HD11	2.17	0.44
5:AF:141:VAL:CG1	5:AF:202:ILE:HD13	2.47	0.44
1:AA:409:G:C5'	6:AG:24:GLU:OE1	2.60	0.44
6:AG:61:LYS:HZ1	6:AG:65:ARG:HD3	1.83	0.44
6:AG:6:GLY:O	6:AG:8:VAL:CG2	2.66	0.44
6:AG:71:SER:O	6:AG:75:PHE:HB2	2.18	0.44
7:AH:91:LEU:HA	7:AH:119:LEU:O	2.17	0.44
7:AH:79:GLU:HB3	7:AH:92:LYS:CA	2.34	0.44
7:AH:92:LYS:O	7:AH:118:ILE:CG2	2.65	0.44
8:AI:61:LEU:HB3	8:AI:63:TYR:CE2	2.52	0.44
9:AJ:71:PRO:CD	9:AJ:96:GLN:HA	2.48	0.44
11:AL:47:LEU:C	11:AL:49:PRO:HD2	2.37	0.44
14:AO:53:ARG:NH1	14:AO:53:ARG:HG2	2.32	0.44
14:AO:55:VAL:C	14:AO:70:ILE:HD11	2.38	0.44
15:AP:64:TRP:HB3	15:AP:66:LEU:CD2	2.48	0.44
15:AP:3:ARG:HG2	15:AP:7:VAL:H	1.83	0.44
16:AQ:48:ALA:HA	16:AQ:53:LEU:HD12	1.99	0.44
17:AR:76:GLU:O	17:AR:77:ARG:C	2.56	0.44
18:AS:20:VAL:CG1	18:AS:32:TYR:HB2	2.48	0.44
19:AT:97:SER:O	19:AT:103:GLY:HA2	2.17	0.44
19:AT:84:LEU:HG	19:AT:84:LEU:H	1.44	0.44
21:AV:58:VAL:HG21	21:AV:75:ALA:HB2	1.98	0.44
22:AW:84:LEU:CD1	22:AW:84:LEU:C	2.85	0.44
49:B2:27:GLY:C	49:B2:28:LEU:HG	2.36	0.44
49:B2:29:ARG:C	49:B2:31:LEU:N	2.70	0.44
49:B2:3:ARG:CB	49:B2:3:ARG:HH11	2.22	0.44
24:BA:179:G:OP1	53:B6:32:LYS:CE	2.66	0.44
54:B7:34:TRP:HA	54:B7:34:TRP:HE3	1.82	0.44
54:B7:63:PRO:O	54:B7:64:TYR:O	2.36	0.44
24:BA:1010:A:H8	24:BA:1010:A:P	2.40	0.44
24:BA:1077:A:N7	24:BA:1078:U:C2	2.86	0.44
24:BA:1085:A:O2'	24:BA:1086:A:C4'	2.63	0.44
24:BA:1128:A:O2'	24:BA:1129:A:O4'	2.30	0.44
24:BA:1266:G:O2'	24:BA:2012:G:N1	2.45	0.44
24:BA:1388:G:C4	24:BA:1400:G:N2	2.86	0.44
24:BA:150:C:O2'	24:BA:151:C:C5'	2.65	0.44
24:BA:1533:C:O2	24:BA:1533:C:C2'	2.52	0.44
24:BA:1534:G:N2	24:BA:1537:C:C5	2.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1542:G:C8	24:BA:1542:G:H3'	2.52	0.44
24:BA:1603:A:C6	24:BA:1604:C:N4	2.86	0.44
24:BA:1655:A:H3'	24:BA:1656:C:C6	2.52	0.44
24:BA:1691:C:N3	24:BA:1692:U:C6	2.85	0.44
24:BA:1949:G:C2'	24:BA:1950:G:H5'	2.46	0.44
24:BA:2056:G:C5	24:BA:2577:A:C4	3.05	0.44
24:BA:2249:U:C4	24:BA:2253:G:OP2	2.71	0.44
24:BA:2308:G:H2'	24:BA:2309:A:OP2	2.17	0.44
24:BA:233:A:C5	24:BA:234:C:C5	3.05	0.44
24:BA:2359:C:N4	24:BA:2360:A:C6	2.86	0.44
24:BA:2371:G:N2	24:BA:2372:G:C5	2.86	0.44
24:BA:2377:A:C2	39:BR:87:PHE:CZ	3.04	0.44
24:BA:2419:U:OP1	54:B7:41:ILE:CD1	2.64	0.44
3:AD:76:A:C2	24:BA:2431:U:O3'	2.62	0.44
24:BA:2519:U:C2	24:BA:2542:A:N1	2.85	0.44
24:BA:2519:U:H1'	24:BA:2542:A:N1	2.32	0.44
24:BA:2595:G:N2	24:BA:2599:G:C6	2.85	0.44
24:BA:2639:A:H2'	24:BA:2640:G:H5'	2.00	0.44
24:BA:2659:G:H2'	24:BA:2660:A:C3'	2.48	0.44
24:BA:2772:C:C6	24:BA:2772:C:OP2	2.70	0.44
24:BA:2785:C:C4	24:BA:2786:U:C4	3.05	0.44
24:BA:2795:G:C2'	24:BA:2795:G:N3	2.79	0.44
24:BA:2859:G:C4	24:BA:2860:A:N7	2.85	0.44
24:BA:361:G:C6	24:BA:362:U:O4	2.70	0.44
24:BA:374:A:C2	24:BA:375:C:C1'	2.97	0.44
24:BA:419:C:C4	24:BA:420:C:C4	3.05	0.44
24:BA:434:U:H2'	24:BA:435:C:OP2	2.18	0.44
24:BA:470:A:O2'	24:BA:471:A:OP1	2.36	0.44
24:BA:483:A:H3'	24:BA:484:C:C6	2.53	0.44
24:BA:550:G:H2'	24:BA:1220:A:H2	1.83	0.44
24:BA:563:G:N2	41:BT:34:LYS:HZ1	2.15	0.44
24:BA:777:A:N1	24:BA:791:C:N4	2.64	0.44
24:BA:785:G:C2'	24:BA:786:C:C6	2.91	0.44
24:BA:848:G:N2	24:BA:932:G:N3	2.65	0.44
24:BA:854:G:N2	24:BA:855:G:N9	2.65	0.44
24:BA:872:A:N1	24:BA:873:G:C5	2.86	0.44
24:BA:886:C:H4'	24:BA:887:A:C8	2.52	0.44
24:BA:919:G:H2'	24:BA:920:G:H8	1.82	0.44
25:BB:75:G:N3	25:BB:75:G:H2'	2.32	0.44
27:BD:208:LYS:NZ	27:BD:211:ARG:HG3	2.26	0.44
27:BD:216:GLY:O	27:BD:217:ARG:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:13:ARG:HD2	27:BD:22:SER:HB2	1.99	0.44
27:BD:229:VAL:CG1	27:BD:230:ASP:OD2	2.56	0.44
27:BD:246:PRO:CG	27:BD:252:TRP:CE3	2.97	0.44
27:BD:259:THR:CB	27:BD:261:LYS:HE3	2.47	0.44
27:BD:24:ILE:C	27:BD:25:THR:HG23	2.35	0.44
27:BD:29:PRO:HB3	27:BD:83:GLU:N	2.31	0.44
27:BD:56:GLY:H	27:BD:217:ARG:NH1	2.16	0.44
27:BD:96:HIS:CE1	27:BD:102:LYS:CE	3.00	0.44
28:BE:119:ARG:HH11	28:BE:120:TRP:CA	2.31	0.44
28:BE:133:LYS:CE	28:BE:137:HIS:HB3	2.48	0.44
28:BE:119:ARG:CZ	28:BE:155:LYS:HD2	2.48	0.44
28:BE:53:PRO:HD2	28:BE:74:PRO:C	2.38	0.44
29:BF:4:VAL:O	29:BF:6:VAL:HG13	2.17	0.44
30:BG:165:THR:HB	30:BG:168:GLU:OE1	2.17	0.44
30:BG:16:ARG:HB2	30:BG:17:PRO:CD	2.47	0.44
25:BB:57:A:N3	30:BG:29:TRP:CG	2.85	0.44
31:BH:119:GLU:C	31:BH:140:LYS:HZ1	2.19	0.44
31:BH:52:VAL:C	31:BH:53:GLU:OE1	2.56	0.44
31:BH:72:ILE:O	31:BH:73:ALA:C	2.56	0.44
33:BL:19:PRO:CG	33:BL:22:PRO:HG2	2.47	0.44
33:BL:98:ARG:HA	33:BL:137:GLU:O	2.17	0.44
34:BM:44:PRO:HG2	34:BM:45:ASN:H	1.82	0.44
34:BM:57:ALA:HB1	34:BM:60:ILE:CD1	2.45	0.44
34:BM:87:LEU:CD2	34:BM:88:GLU:OE2	2.57	0.44
35:BN:77:ILE:CG1	40:BS:75:ILE:CD1	2.87	0.44
36:BO:7:ARG:HB2	36:BO:8:PRO:HD3	1.99	0.44
37:BP:102:VAL:CG2	37:BP:104:PHE:CZ	3.00	0.44
37:BP:16:ARG:NH1	37:BP:72:LYS:CA	2.74	0.44
37:BP:65:PHE:HA	37:BP:65:PHE:HD2	1.67	0.44
38:BQ:37:THR:CA	38:BQ:111:LEU:HD22	2.46	0.44
35:BN:79:PHE:CE1	40:BS:106:SER:CB	3.01	0.44
40:BS:30:VAL:CA	40:BS:32:TYR:OH	2.66	0.44
40:BS:4:GLY:O	40:BS:8:LYS:CG	2.65	0.44
40:BS:67:SER:HA	40:BS:75:ILE:HG22	1.99	0.44
41:BT:50:ARG:HH12	41:BT:51:LYS:HG3	1.82	0.44
41:BT:76:TYR:O	41:BT:77:SER:C	2.55	0.44
41:BT:91:ASP:O	41:BT:95:LEU:CD2	2.63	0.44
42:BU:58:VAL:CG1	42:BU:59:ALA:N	2.81	0.44
43:BV:68:ARG:HG3	43:BV:110:LYS:O	2.17	0.44
43:BV:26:GLY:O	43:BV:27:LYS:HD2	2.18	0.44
45:BX:1:MET:CA	45:BX:33:LYS:HE3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:23:ARG:NH2	45:BX:39:VAL:HG13	2.27	0.44
45:BX:44:ILE:O	45:BX:45:VAL:C	2.56	0.44
45:BX:9:LYS:O	45:BX:110:GLU:OE2	2.36	0.44
46:BY:151:HIS:HB3	46:BY:168:GLU:HG2	1.99	0.44
46:BY:24:LEU:HD13	46:BY:83:PRO:CD	2.47	0.44
46:BY:99:TYR:HD2	46:BY:124:ILE:CG2	2.31	0.44
32:BK:66:GLU:HA	32:BK:69:LYS:CE	2.48	0.44
24:BA:2132:U:O2	24:BA:2134:A:C5	2.71	0.44
24:BA:2132:U:O2	24:BA:2134:A:C4	2.71	0.44
26:BC:100:ILE:O	26:BC:103:ILE:HB	2.17	0.44
26:BC:160:ARG:HH11	26:BC:160:ARG:HA	1.82	0.44
26:BC:200:LYS:HG3	26:BC:208:PHE:HE2	1.77	0.44
1:AA:1003:G:C5	1:AA:1004:A:N3	2.85	0.44
39:BR:56:LEU:HD21	39:BR:59:LYS:HZ3	1.81	0.44
24:BA:2343:C:H4'	24:BA:2373:G:O3'	2.17	0.44
21:AV:28:LYS:O	21:AV:29:ARG:CB	2.66	0.44
1:AA:1043:C:C2'	1:AA:1044:A:H5'	2.48	0.44
1:AA:1084:G:C4	1:AA:1085:U:C5	3.06	0.44
1:AA:1102:A:C2'	1:AA:1103:C:O5'	2.66	0.44
1:AA:1251:A:C2	1:AA:1252:A:C6	3.05	0.44
1:AA:1305:G:N2	1:AA:1331:G:N3	2.66	0.44
1:AA:1389:C:H2'	1:AA:1390:U:H5'	1.96	0.44
1:AA:1413:A:C2	1:AA:1414:U:N1	2.86	0.44
1:AA:1433:A:H2'	1:AA:1434:A:C5'	2.48	0.44
1:AA:1492:A:C3'	1:AA:1493:A:O4'	2.66	0.44
1:AA:187:C:H2'	1:AA:188:U:O4'	2.18	0.44
1:AA:276:G:N2	1:AA:277:C:C1'	2.80	0.44
1:AA:352:C:O2	1:AA:357:G:C6	2.71	0.44
1:AA:428:G:H5'	1:AA:430:A:C1'	2.48	0.44
1:AA:536:C:O2'	1:AA:537:G:H5'	2.17	0.44
1:AA:597:G:C8	1:AA:644:G:N2	2.85	0.44
1:AA:621:A:C6	1:AA:622:A:C6	3.05	0.44
1:AA:644:G:H2'	1:AA:645:C:C5'	2.48	0.44
1:AA:644:G:N7	1:AA:645:C:C5	2.86	0.44
1:AA:817:C:C2'	1:AA:818:G:C5'	2.96	0.44
1:AA:819:A:C5'	1:AA:820:U:OP2	2.66	0.44
1:AA:854:G:P	1:AA:871:U:O2	2.76	0.44
1:AA:893:C:C2'	1:AA:894:G:H5'	2.47	0.44
1:AA:949:A:H1'	1:AA:1364:U:C2	2.53	0.44
1:AA:950:U:C6	15:AP:102:ARG:NH2	2.86	0.44
1:AA:963:G:N2	12:AM:55:LYS:HD2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:19:G:C4	2:AC:57:A:H2	2.36	0.44
2:AC:68:C:C2	2:AC:69:C:C5	3.05	0.44
4:AE:132:LYS:N	4:AE:132:LYS:CE	2.78	0.44
4:AE:80:ILE:CD1	4:AE:208:ILE:HG23	2.46	0.44
4:AE:60:ASP:CG	4:AE:64:ARG:HH21	2.20	0.44
5:AF:190:ARG:HB3	5:AF:190:ARG:HH11	1.81	0.44
6:AG:113:SER:O	6:AG:114:ARG:C	2.51	0.44
7:AH:104:ALA:HA	7:AH:107:ARG:NH1	2.33	0.44
7:AH:72:GLN:O	7:AH:73:ASN:CB	2.63	0.44
7:AH:80:ILE:HG23	10:AK:104:ARG:NH2	2.32	0.44
8:AI:19:LEU:O	8:AI:23:LYS:CB	2.65	0.44
9:AJ:111:ARG:CZ	9:AJ:122:HIS:CB	2.95	0.44
9:AJ:2:ALA:HB3	9:AJ:5:ARG:O	2.17	0.44
9:AJ:86:GLN:HB2	9:AJ:148:ASN:CG	2.37	0.44
1:AA:878:G:P	10:AK:88:LYS:HD3	2.57	0.44
1:AA:1342:C:H4'	11:AL:125:TYR:CD1	2.53	0.44
1:AA:1371:G:P	11:AL:12:GLU:HG2	2.58	0.44
11:AL:15:ALA:HB3	11:AL:76:ALA:C	2.37	0.44
11:AL:33:PHE:CZ	11:AL:46:ALA:HB3	2.53	0.44
11:AL:36:TYR:CE2	11:AL:70:LYS:HG3	2.52	0.44
12:AM:95:GLU:O	12:AM:95:GLU:OE1	2.35	0.44
14:AO:25:PRO:HD2	14:AO:98:TYR:OH	2.18	0.44
1:AA:529:G:O6	14:AO:49:ASN:CG	2.56	0.44
14:AO:60:LEU:C	14:AO:60:LEU:HD22	2.38	0.44
15:AP:126:LYS:HB3	15:AP:126:LYS:HE3	1.82	0.44
15:AP:28:ALA:O	15:AP:32:GLU:HG3	2.18	0.44
15:AP:80:ARG:NH1	15:AP:81:LEU:H	2.15	0.44
15:AP:91:ARG:C	15:AP:98:VAL:HG22	2.38	0.44
12:AM:49:VAL:CG1	16:AQ:41:ARG:HB2	2.47	0.44
1:AA:1047:G:OP1	16:AQ:4:LYS:HD2	2.18	0.44
17:AR:62:GLN:O	17:AR:63:ARG:C	2.56	0.44
18:AS:22:THR:HG22	18:AS:32:TYR:HB3	1.99	0.44
18:AS:4:ILE:HG13	18:AS:66:PRO:HB3	1.97	0.44
19:AT:74:LEU:O	19:AT:75:ARG:HB2	2.16	0.44
8:AI:96:PRO:CD	20:AU:32:ARG:HE	2.29	0.44
20:AU:36:ASN:C	20:AU:40:LEU:HG	2.34	0.44
20:AU:53:ARG:HH22	20:AU:60:GLY:CA	2.29	0.44
21:AV:17:GLU:O	21:AV:18:LYS:C	2.54	0.44
22:AW:42:GLN:HE21	22:AW:42:GLN:C	2.21	0.44
48:B1:36:ILE:CG2	48:B1:37:GLY:N	2.66	0.44
50:B3:14:ILE:O	50:B3:14:ILE:CG2	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:5:LYS:HB3	54:B7:63:PRO:HD2	1.99	0.44
24:BA:1044:G:H2'	24:BA:1111:A:C2	2.52	0.44
24:BA:1102:C:C2	24:BA:1103:A:C8	3.06	0.44
24:BA:49:A:H1'	24:BA:118:A:N6	2.32	0.44
24:BA:1199:U:O4'	24:BA:1199:U:OP2	2.35	0.44
24:BA:1222:C:C2	24:BA:1228:G:N3	2.86	0.44
24:BA:1313:U:O5'	24:BA:1313:U:C6	2.70	0.44
24:BA:1385:G:C6	24:BA:1386:C:N4	2.86	0.44
24:BA:1402:C:C2'	24:BA:1402:C:O2	2.63	0.44
24:BA:1384:A:H1'	24:BA:1405:U:C1'	2.48	0.44
24:BA:1420:U:O4'	24:BA:1420:U:P	2.76	0.44
24:BA:1458:C:H4'	24:BA:1459:G:C8	2.52	0.44
24:BA:1631:A:N6	24:BA:1632:A:C2	2.85	0.44
24:BA:1641:A:N6	24:BA:1642:G:C2	2.86	0.44
24:BA:1703:G:C6	24:BA:1704:G:C5	3.06	0.44
24:BA:1820:U:C2'	27:BD:202:LYS:CG	2.84	0.44
24:BA:1835:G:C2'	24:BA:1836:C:H5'	2.48	0.44
24:BA:1891:G:C6	24:BA:1892:C:C4	3.06	0.44
24:BA:1926:U:O2'	24:BA:1927:A:H8	2.00	0.44
24:BA:1945:G:C4	24:BA:1946:U:C5	3.06	0.44
24:BA:1967:C:O2'	24:BA:1968:G:P	2.75	0.44
24:BA:2000:G:N3	24:BA:2001:A:C8	2.84	0.44
24:BA:2007:C:C2'	24:BA:2008:C:H5'	2.48	0.44
24:BA:2009:G:C5'	43:BV:40:ASN:HD21	2.30	0.44
24:BA:2039:C:H2'	24:BA:2040:C:C6	2.52	0.44
24:BA:2039:C:C2	24:BA:2040:C:C5	3.05	0.44
24:BA:2390:U:C6	24:BA:2390:U:OP2	2.71	0.44
24:BA:2404:C:C4	24:BA:2405:G:C6	3.05	0.44
24:BA:2447:G:C3'	24:BA:2499:C:OP1	2.65	0.44
24:BA:1672:C:N3	24:BA:2582:G:O4'	2.51	0.44
24:BA:2592:G:C5	24:BA:2593:U:C6	3.06	0.44
24:BA:2630:G:C5	24:BA:2894:G:C6	3.05	0.44
24:BA:263:C:O2	24:BA:264:C:O4'	2.35	0.44
24:BA:2639:A:N1	24:BA:2640:G:H1'	2.32	0.44
24:BA:2718:G:C4	24:BA:2719:G:C8	3.06	0.44
24:BA:2808:U:C2	24:BA:2892:A:N6	2.86	0.44
24:BA:366:C:H6	24:BA:366:C:O5'	2.01	0.44
24:BA:372:G:H5'	24:BA:372:G:N3	2.32	0.44
24:BA:379:G:N1	24:BA:396:G:C5	2.86	0.44
24:BA:41:C:H2'	24:BA:43:G:C8	2.50	0.44
24:BA:268:C:N3	24:BA:425:G:C6	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:460:A:H3'	24:BA:461:C:H6	1.83	0.44
24:BA:527:C:O2'	24:BA:528:A:C2	2.70	0.44
24:BA:535:C:H5'	41:BT:49:HIS:CB	2.47	0.44
24:BA:571:A:O2'	24:BA:573:G:N7	2.40	0.44
24:BA:646:A:O2'	24:BA:647:G:C8	2.66	0.44
24:BA:64:A:C2	44:BW:66:LEU:HD13	2.53	0.44
24:BA:699:A:C8	24:BA:699:A:C3'	3.01	0.44
24:BA:819:A:C5	24:BA:1189:A:C6	3.06	0.44
24:BA:819:A:O2'	24:BA:837:C:O2	2.36	0.44
24:BA:864:G:C2'	24:BA:865:C:O4'	2.65	0.44
24:BA:975:G:H2'	24:BA:975:G:N3	2.33	0.44
24:BA:983:A:C5	24:BA:984:A:C6	3.06	0.44
24:BA:998:C:H2'	24:BA:999:U:O4'	2.18	0.44
25:BB:54:G:N2	25:BB:55:U:C2	2.86	0.44
27:BD:168:ARG:CG	27:BD:173:VAL:HG22	2.48	0.44
24:BA:764:A:OP1	27:BD:211:ARG:HA	2.17	0.44
24:BA:2053:G:C3'	28:BE:145:LYS:HZ1	2.31	0.44
28:BE:4:ILE:O	28:BE:5:LEU:HB3	2.17	0.44
29:BF:140:LEU:O	29:BF:141:ALA:C	2.56	0.44
29:BF:38:ARG:NH1	36:BO:10:PRO:CD	2.80	0.44
29:BF:62:ARG:HG3	29:BF:63:LYS:CE	2.47	0.44
29:BF:78:ILE:C	29:BF:78:ILE:HD13	2.38	0.44
30:BG:170:ARG:C	30:BG:172:LEU:N	2.68	0.44
30:BG:26:GLN:OE1	30:BG:29:TRP:HE3	2.01	0.44
30:BG:57:ALA:HA	30:BG:67:LYS:HA	1.99	0.44
30:BG:75:LYS:HD2	30:BG:87:PRO:CD	2.48	0.44
31:BH:148:ILE:CG1	31:BH:162:ILE:HD12	2.48	0.44
33:BL:105:LEU:HD23	33:BL:124:ALA:HB2	2.00	0.44
33:BL:79:ARG:NH1	33:BL:87:GLY:CA	2.80	0.44
24:BA:1007:C:O3'	34:BM:108:PRO:CG	2.66	0.44
34:BM:53:VAL:HG13	34:BM:123:TYR:CE2	2.52	0.44
35:BN:104:ARG:N	35:BN:107:ARG:HD2	2.33	0.44
36:BO:130:PHE:CE1	36:BO:145:PRO:HB2	2.52	0.44
36:BO:135:LEU:H	36:BO:135:LEU:HD12	1.79	0.44
37:BP:111:GLU:OE1	37:BP:111:GLU:CA	2.65	0.44
37:BP:53:ALA:O	37:BP:56:ARG:HG3	2.18	0.44
38:BQ:13:HIS:HD1	38:BQ:14:SER:H	1.66	0.44
38:BQ:33:ARG:NH2	51:B4:56:LYS:HG3	2.33	0.44
40:BS:33:LYS:HG3	40:BS:87:ASP:HB3	1.98	0.44
35:BN:79:PHE:CE2	40:BS:75:ILE:CD1	3.00	0.44
41:BT:47:TYR:CE2	42:BU:75:PHE:CB	2.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1152:C:O3'	41:BT:80:ILE:CD1	2.66	0.44
42:BU:31:ALA:O	42:BU:33:VAL:N	2.51	0.44
42:BU:64:HIS:HB3	42:BU:96:ILE:CG2	2.44	0.44
41:BT:47:TYR:HE2	42:BU:75:PHE:C	2.21	0.44
42:BU:7:THR:HG23	42:BU:11:GLN:CD	2.37	0.44
43:BV:2:GLU:O	43:BV:4:LYS:HE2	2.16	0.44
45:BX:14:LEU:HD22	45:BX:19:LYS:N	2.29	0.44
45:BX:14:LEU:CD2	45:BX:17:SER:OG	2.66	0.44
45:BX:35:TYR:HE1	45:BX:65:ALA:O	1.98	0.44
46:BY:51:ALA:O	46:BY:54:HIS:N	2.50	0.44
46:BY:69:THR:OG1	46:BY:88:PHE:HB3	2.17	0.44
46:BY:73:GLN:C	46:BY:87:ASP:HB2	2.33	0.44
47:BZ:72:ARG:HH11	47:BZ:75:LEU:HD11	1.82	0.44
3:AD:26:A:N6	3:AD:44:G:H22	2.15	0.44
3:AD:19:G:H21	3:AD:57:G:C1'	2.30	0.44
3:AD:63:G:C2	3:AD:64:C:C2	3.06	0.44
24:BA:2161:C:O2'	24:BA:2162:G:C5'	2.64	0.44
26:BC:10:LEU:CG	26:BC:220:PRO:CG	2.93	0.44
26:BC:113:VAL:HG21	26:BC:136:LEU:O	2.17	0.44
26:BC:120:MET:SD	26:BC:145:VAL:CG1	3.04	0.44
24:BA:2175:C:OP2	26:BC:5:LYS:HG2	2.17	0.44
24:BA:1580:A:C2'	24:BA:1581:G:C1'	2.95	0.44
24:BA:2131:G:H8	24:BA:2131:G:OP1	2.00	0.44
1:AA:435:C:C2'	1:AA:436:C:H5'	2.47	0.44
24:BA:2373:G:C6	24:BA:2374:C:N4	2.86	0.44
24:BA:2465:C:O2	24:BA:2465:C:H2'	2.17	0.44
7:AH:5:ASP:HB3	7:AH:6:PHE:H	1.42	0.44
1:AA:1132:C:N3	1:AA:1133:G:C5	2.86	0.44
1:AA:1216:G:OP1	16:AQ:3:ARG:NH1	2.51	0.44
1:AA:1241:G:C6	1:AA:1242:C:N4	2.86	0.44
1:AA:971:G:C5	1:AA:1365:G:H5'	2.53	0.44
1:AA:1425:U:C2	1:AA:1476:G:N1	2.86	0.44
1:AA:147:G:C6	1:AA:148:G:C5	3.05	0.44
1:AA:238:G:C2	1:AA:239:U:C2	3.06	0.44
1:AA:391:G:OP1	18:AS:28:ARG:NH2	2.51	0.44
1:AA:483:C:OP2	1:AA:483:C:H6	2.01	0.44
1:AA:50:A:C6	1:AA:361:G:C4'	3.01	0.44
1:AA:527:G:O2'	1:AA:535:A:N6	2.49	0.44
1:AA:608:A:H2'	1:AA:608:A:N3	2.33	0.44
1:AA:701:C:C4'	1:AA:702:A:OP2	2.61	0.44
1:AA:755:G:H21	10:AK:1:MET:HE3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:778:G:O2'	1:AA:779:C:C5'	2.56	0.44
1:AA:833:U:HO2'	1:AA:834:C:C5'	2.31	0.44
1:AA:828:A:C6	1:AA:859:A:O4'	2.67	0.44
1:AA:889:A:C2	1:AA:891:U:N3	2.85	0.44
1:AA:944:G:C3'	1:AA:945:G:C5'	2.83	0.44
1:AA:974:A:H1'	16:AQ:31:ARG:NH2	2.12	0.44
2:AC:44:A:N1	2:AC:45:G:C2	2.86	0.44
3:AD:75:C:C3'	3:AD:76:A:O3'	2.58	0.44
4:AE:54:THR:HG23	4:AE:199:TYR:CB	2.47	0.44
4:AE:71:VAL:O	4:AE:164:VAL:CG2	2.60	0.44
4:AE:82:ARG:CB	4:AE:94:ASN:ND2	2.60	0.44
4:AE:97:TRP:O	4:AE:97:TRP:CD2	2.71	0.44
5:AF:156:ARG:O	5:AF:193:TYR:CE1	2.71	0.44
1:AA:1108:G:OP2	5:AF:174:PRO:HA	2.18	0.44
6:AG:118:ARG:NH2	6:AG:118:ARG:HG3	2.33	0.44
6:AG:38:TYR:HB2	6:AG:39:PRO:CD	2.44	0.44
6:AG:82:ALA:CB	6:AG:89:THR:HG23	2.47	0.44
6:AG:88:VAL:O	6:AG:90:GLY:N	2.51	0.44
7:AH:144:THR:O	7:AH:145:LYS:C	2.56	0.44
7:AH:53:LEU:H	7:AH:53:LEU:HD22	1.77	0.44
8:AI:30:LEU:CB	8:AI:35:ALA:CB	2.88	0.44
8:AI:7:ASN:HD22	8:AI:7:ASN:HA	1.50	0.44
8:AI:80:ARG:HA	8:AI:85:VAL:HG11	1.99	0.44
8:AI:83:ASP:C	8:AI:85:VAL:N	2.71	0.44
9:AJ:88:PRO:HD2	9:AJ:152:ALA:N	2.33	0.44
10:AK:8:ASP:O	10:AK:12:ARG:HG2	2.18	0.44
12:AM:3:LYS:NZ	12:AM:77:PRO:HD3	2.32	0.44
1:AA:1254:C:OP1	12:AM:45:ARG:NE	2.50	0.44
12:AM:26:ALA:O	12:AM:84:GLN:NE2	2.51	0.44
12:AM:9:ARG:HG3	12:AM:95:GLU:OE2	2.18	0.44
14:AO:43:VAL:HG23	14:AO:55:VAL:HG21	2.00	0.44
15:AP:92:HIS:CA	15:AP:98:VAL:HG21	2.48	0.44
1:AA:658:G:O4'	17:AR:22:THR:O	2.35	0.44
17:AR:5:LYS:HZ2	17:AR:5:LYS:HB3	1.78	0.44
17:AR:78:TYR:CD2	17:AR:82:ILE:HD11	2.53	0.44
18:AS:25:ARG:O	18:AS:26:ARG:C	2.55	0.44
18:AS:26:ARG:O	18:AS:27:LYS:C	2.56	0.44
18:AS:52:ASP:C	18:AS:52:ASP:OD2	2.56	0.44
18:AS:53:VAL:CG2	18:AS:54:GLU:N	2.81	0.44
18:AS:54:GLU:O	18:AS:57:ARG:N	2.51	0.44
19:AT:51:TYR:HB3	19:AT:55:ASP:CG	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:41:LYS:CA	20:AU:44:LEU:HD23	2.48	0.44
20:AU:45:SER:OG	20:AU:49:LYS:NZ	2.51	0.44
20:AU:53:ARG:NH2	20:AU:60:GLY:H	2.13	0.44
1:AA:262:A:C5'	22:AW:74:LYS:HG3	2.45	0.44
23:AX:9:ARG:NH2	23:AX:22:ARG:HG3	2.32	0.44
48:B1:27:LEU:N	48:B1:27:LEU:CD1	2.81	0.44
50:B3:59:PHE:CD1	50:B3:59:PHE:N	2.78	0.44
50:B3:57:GLU:CA	50:B3:61:ARG:HG3	2.48	0.44
52:B5:15:GLU:CD	52:B5:21:TYR:CB	2.83	0.44
52:B5:16:CYS:HB3	52:B5:49:HIS:CE1	2.53	0.44
24:BA:458:G:C2'	53:B6:40:TRP:CE2	3.01	0.44
54:B7:5:LYS:HA	54:B7:60:LEU:HA	2.00	0.44
55:B8:10:ILE:CD1	55:B8:32:HIS:CD2	3.01	0.44
55:B8:1:MET:N	55:B8:33:LYS:CB	2.62	0.44
55:B8:11:CYS:N	55:B8:32:HIS:HE2	2.14	0.44
24:BA:1004:C:O4'	24:BA:1010:A:C6	2.71	0.44
24:BA:1024:G:C6	24:BA:1025:G:N7	2.85	0.44
24:BA:86:C:O2'	24:BA:104:U:H4'	2.18	0.44
24:BA:1022:G:O6	24:BA:1139:G:C5	2.70	0.44
24:BA:1225:C:N3	24:BA:1226:G:N1	2.64	0.44
24:BA:1287:A:H5'	38:BQ:104:ARG:HG3	2.00	0.44
24:BA:1471:A:N1	24:BA:1473:G:C8	2.85	0.44
24:BA:1515:C:C4	24:BA:1516:U:N3	2.86	0.44
24:BA:1567:A:N1	27:BD:86:PRO:CD	2.81	0.44
24:BA:1678:G:C2'	24:BA:1679:U:H5'	2.48	0.44
24:BA:1743:G:C2'	24:BA:1746:G:O4'	2.56	0.44
24:BA:1792:G:P	27:BD:206:LEU:HD21	2.58	0.44
24:BA:1793:C:O2'	24:BA:1900:A:N6	2.50	0.44
24:BA:1853:A:H1'	24:BA:2233:U:O2'	2.17	0.44
24:BA:1901:A:O2'	24:BA:1902:C:C5'	2.65	0.44
24:BA:1907:G:C6	24:BA:1908:C:N4	2.86	0.44
24:BA:1925:C:C2'	24:BA:1926:U:O5'	2.65	0.44
24:BA:981:A:H1'	24:BA:2037:G:C1'	2.48	0.44
24:BA:204:A:C4	24:BA:206:U:C4	3.06	0.44
24:BA:2081:C:C2'	24:BA:2082:A:C5'	2.96	0.44
24:BA:2081:C:H2'	24:BA:2082:A:C5'	2.48	0.44
24:BA:2081:C:H2'	24:BA:2082:A:H5'	2.00	0.44
24:BA:2305:A:O2'	30:BG:154:GLY:CA	2.64	0.44
24:BA:2307:G:H5''	24:BA:2308:G:C8	2.47	0.44
24:BA:2582:G:H5'	24:BA:2582:G:H8	1.79	0.44
24:BA:2761:G:H2'	24:BA:2762:G:C5'	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:291:C:C4	24:BA:292:C:C4	3.06	0.44
24:BA:301:G:C2	24:BA:302:C:N3	2.86	0.44
24:BA:35:G:N9	24:BA:454:A:N3	2.66	0.44
24:BA:463:G:N2	24:BA:467:G:C5	2.86	0.44
24:BA:670:A:C8	24:BA:670:A:OP2	2.70	0.44
24:BA:728:G:O4'	24:BA:729:G:C8	2.71	0.44
24:BA:688:U:O2	24:BA:787:U:H4'	2.17	0.44
24:BA:805:G:O6	24:BA:2068:U:O5'	2.36	0.44
24:BA:807:U:O2'	24:BA:808:G:H5'	2.17	0.44
24:BA:852:G:N1	24:BA:853:G:C5	2.85	0.44
24:BA:860:U:H6	24:BA:861:A:H5'	1.83	0.44
25:BB:104:A:N6	25:BB:105:G:N2	2.66	0.44
25:BB:54:G:O2'	25:BB:55:U:H5'	2.18	0.44
27:BD:131:LEU:HA	27:BD:131:LEU:HD12	1.39	0.44
27:BD:161:THR:HA	27:BD:195:ALA:HB1	1.99	0.44
27:BD:23:GLU:CD	27:BD:204:ILE:HD12	2.37	0.44
27:BD:7:LYS:HE2	27:BD:27:THR:OG1	2.17	0.44
27:BD:28:GLU:C	27:BD:30:GLU:HG3	2.38	0.44
27:BD:29:PRO:HD3	27:BD:82:ILE:HG22	1.99	0.44
27:BD:95:LEU:C	27:BD:95:LEU:HD23	2.38	0.44
28:BE:151:TYR:OH	28:BE:152:LYS:HE2	2.18	0.44
28:BE:61:ARG:CB	28:BE:62:PRO:HD3	2.48	0.44
29:BF:194:MET:SD	29:BF:195:ASP:N	2.90	0.44
30:BG:139:LEU:O	30:BG:142:PRO:CD	2.66	0.44
30:BG:171:ALA:O	30:BG:174:GLU:HB3	2.17	0.44
30:BG:37:VAL:HG12	30:BG:157:ILE:HD11	2.00	0.44
30:BG:87:PRO:O	30:BG:88:ILE:CG1	2.66	0.44
31:BH:98:LEU:HD22	31:BH:100:GLY:O	2.18	0.44
31:BH:103:LEU:HB3	31:BH:104:GLU:H	1.52	0.44
24:BA:2746:U:C5'	31:BH:139:GLN:HA	2.47	0.44
31:BH:35:VAL:HG11	31:BH:75:ALA:CB	2.35	0.44
32:BK:37:VAL:CG1	32:BK:38:LEU:N	2.56	0.44
33:BL:72:PRO:O	33:BL:73:PRO:C	2.56	0.44
34:BM:25:ARG:HH21	34:BM:26:LEU:HB2	1.83	0.44
34:BM:25:ARG:HA	34:BM:28:THR:HG23	1.98	0.44
35:BN:28:SER:O	35:BN:29:ASN:HB2	2.18	0.44
37:BP:34:LEU:HB2	37:BP:103:MET:HB2	2.00	0.44
37:BP:6:ARG:HB2	37:BP:45:GLN:OE1	2.17	0.44
38:BQ:34:ILE:CG2	38:BQ:35:THR:N	2.80	0.44
38:BQ:5:LYS:HA	38:BQ:5:LYS:HE2	1.98	0.44
38:BQ:74:LYS:HZ3	38:BQ:74:LYS:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:17:ILE:O	41:BT:20:LEU:HG	2.17	0.44
41:BT:52:ARG:CA	41:BT:55:ARG:HD3	2.47	0.44
42:BU:14:VAL:HG13	42:BU:19:LYS:HE2	1.99	0.44
42:BU:43:GLU:H	42:BU:44:LYS:CE	2.30	0.44
42:BU:43:GLU:HA	42:BU:47:VAL:O	2.18	0.44
42:BU:93:GLU:CD	42:BU:95:LEU:CD2	2.85	0.44
43:BV:51:LEU:HD13	43:BV:51:LEU:H	1.82	0.44
43:BV:25:ARG:HA	43:BV:71:VAL:HG21	1.99	0.44
43:BV:75:TYR:O	43:BV:104:THR:HG22	2.17	0.44
24:BA:26:G:OP1	43:BV:80:PRO:HG3	2.17	0.44
46:BY:110:GLY:C	46:BY:112:ARG:H	2.21	0.44
46:BY:6:LYS:CA	46:BY:37:VAL:HG13	2.44	0.44
47:BZ:46:LYS:HE3	47:BZ:77:ARG:H	1.82	0.44
32:BK:79:ILE:O	32:BK:144:VAL:HA	2.18	0.44
3:AD:44:G:C2'	3:AD:45:U:H5'	2.48	0.44
3:AD:54:U:OP2	3:AD:55:U:C5	2.71	0.44
26:BC:212:VAL:HG11	26:BC:226:PRO:HD3	1.99	0.44
26:BC:23:ASP:O	26:BC:24:GLU:C	2.55	0.44
26:BC:59:ARG:CG	26:BC:60:GLY:N	2.80	0.44
24:BA:2193:G:N3	24:BA:2194:G:C8	2.86	0.44
1:AA:1165:C:N4	1:AA:1166:G:C5	2.85	0.44
1:AA:1120:G:C2'	1:AA:1121:U:O5'	2.66	0.44
13:AN:114:VAL:CG2	13:AN:115:PRO:HD2	2.47	0.44
1:AA:1147:C:O2	1:AA:1148:U:C6	2.71	0.44
1:AA:1308:U:P	15:AP:99:ARG:CG	2.98	0.44
1:AA:1316:G:C8	1:AA:1316:G:O5'	2.64	0.44
1:AA:1422:G:N1	1:AA:1423:G:C5	2.86	0.44
1:AA:236:G:C3'	1:AA:237:C:C6	2.95	0.44
1:AA:291:C:H1'	1:AA:310:G:N2	2.32	0.44
1:AA:355:C:N4	1:AA:356:A:H62	2.15	0.44
1:AA:569:C:O4'	1:AA:574:A:N1	2.51	0.44
1:AA:578:C:C2'	1:AA:728:A:C2	3.01	0.44
1:AA:592:G:C4	1:AA:593:G:C8	3.06	0.44
1:AA:751:U:C5	1:AA:752:G:C5	3.06	0.44
1:AA:830:G:C2	1:AA:857:C:C2	3.06	0.44
1:AA:962:C:O2'	1:AA:1200:C:C4	2.71	0.44
2:AC:47:U:C4	2:AC:49:G:O3'	2.71	0.44
2:AC:3:C:C2'	2:AC:4:G:O5'	2.66	0.44
2:AC:58:A:O2'	2:AC:59:A:OP1	2.35	0.44
3:AD:30:G:N1	3:AD:31:A:C6	2.86	0.44
4:AE:101:MET:N	4:AE:108:ILE:HG13	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:171:ALA:O	4:AE:174:VAL:CB	2.59	0.44
4:AE:33:TYR:HB2	4:AE:42:ILE:O	2.18	0.44
4:AE:60:ASP:CG	4:AE:64:ARG:NH2	2.71	0.44
5:AF:135:LYS:NZ	7:AH:52:PRO:CD	2.81	0.44
5:AF:184:TYR:OH	5:AF:186:PHE:HB3	2.18	0.44
6:AG:152:SER:C	6:AG:154:ASN:N	2.66	0.44
6:AG:43:HIS:CG	6:AG:46:LYS:HG3	2.52	0.44
6:AG:78:LEU:O	6:AG:78:LEU:HD23	2.18	0.44
6:AG:79:PHE:O	6:AG:83:SER:OG	2.35	0.44
6:AG:78:LEU:HB3	6:AG:93:PHE:CE2	2.52	0.44
7:AH:109:ILE:CD1	7:AH:135:THR:HB	2.47	0.44
7:AH:72:GLN:NE2	7:AH:144:THR:HG23	2.31	0.44
7:AH:9:LYS:CD	7:AH:108:ALA:HA	2.47	0.44
8:AI:42:GLU:HG3	8:AI:44:GLY:H	1.82	0.44
10:AK:112:LEU:CD1	10:AK:131:GLY:CA	2.95	0.44
10:AK:9:MET:CG	10:AK:26:VAL:HG21	2.45	0.44
10:AK:46:LYS:HD2	10:AK:64:LYS:HA	2.00	0.44
10:AK:95:VAL:CB	10:AK:99:GLU:OE1	2.53	0.44
11:AL:45:ALA:HB3	11:AL:74:ILE:HG22	1.97	0.44
11:AL:15:ALA:CB	11:AL:76:ALA:HB3	2.48	0.44
11:AL:93:ARG:NH2	11:AL:97:LYS:HE2	2.33	0.44
12:AM:48:THR:HG22	12:AM:49:VAL:N	2.33	0.44
13:AN:25:TYR:CE2	13:AN:87:THR:CB	2.96	0.44
1:AA:529:G:N1	14:AO:49:ASN:ND2	2.65	0.44
14:AO:37:CYS:CA	14:AO:57:LYS:O	2.64	0.44
15:AP:33:ALA:HB2	15:AP:64:TRP:HZ3	1.83	0.44
17:AR:70:LEU:HG	17:AR:78:TYR:HB2	2.00	0.44
18:AS:53:VAL:HA	18:AS:79:VAL:CG2	2.47	0.44
20:AU:64:ARG:NH1	20:AU:64:ARG:HG3	2.32	0.44
21:AV:25:LYS:H	21:AV:25:LYS:HD2	1.83	0.44
22:AW:26:ASN:ND2	22:AW:26:ASN:N	2.66	0.44
48:B1:20:VAL:HG13	48:B1:21:ARG:N	2.32	0.44
48:B1:51:GLN:HA	48:B1:54:ARG:CD	2.46	0.44
48:B1:50:ARG:CB	48:B1:54:ARG:HH22	2.28	0.44
50:B3:50:VAL:C	50:B3:51:ASP:CG	2.77	0.44
50:B3:65:ASP:O	50:B3:69:LYS:CB	2.66	0.44
51:B4:48:GLU:OE2	51:B4:48:GLU:N	2.51	0.44
53:B6:8:ASN:ND2	53:B6:10:ARG:N	2.64	0.44
24:BA:1000:A:N7	24:BA:1001:A:C5	2.85	0.44
24:BA:1029:A:C2'	24:BA:1030:G:C5'	2.92	0.44
24:BA:1065:U:C3'	24:BA:1066:U:C5'	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1055:G:N2	24:BA:1084:A:O2'	2.51	0.44
24:BA:1057:A:H61	24:BA:1086:A:H2	1.66	0.44
24:BA:1090:U:H2'	24:BA:1090:U:O2	2.18	0.44
24:BA:1111:A:O3'	24:BA:1112:G:C4'	2.66	0.44
24:BA:72:U:H5	24:BA:112:U:O2	2.00	0.44
24:BA:1158:C:H4'	49:B2:32:GLN:NE2	2.33	0.44
24:BA:1204:A:C8	36:BO:6:LEU:HD12	2.52	0.44
24:BA:1205:U:O5'	24:BA:1206:G:OP1	2.36	0.44
24:BA:120:U:C1'	24:BA:149:A:N3	2.81	0.44
24:BA:1226:G:C3'	24:BA:1226:G:C8	3.00	0.44
24:BA:1335:U:H2'	24:BA:1336:A:H8	1.83	0.44
24:BA:1364:G:C2	24:BA:1368:G:C4	3.06	0.44
24:BA:1466:G:O5'	24:BA:1466:G:H8	2.01	0.44
24:BA:1523:U:C4	24:BA:1524:G:N7	2.85	0.44
24:BA:1534:G:N2	24:BA:1537:C:H5	2.15	0.44
24:BA:1550:C:N3	24:BA:1551:C:C5	2.86	0.44
24:BA:1743:G:C6	24:BA:1746:G:C5	3.06	0.44
24:BA:1779:U:C1'	24:BA:1783:A:N6	2.80	0.44
24:BA:1802:A:OP1	24:BA:1814:G:N1	2.48	0.44
24:BA:1849:G:C6	24:BA:1850:G:N7	2.86	0.44
24:BA:1979:C:O2	24:BA:1979:C:H2'	2.17	0.44
24:BA:2016:U:C2	24:BA:2017:U:C6	3.06	0.44
24:BA:19:C:N3	24:BA:20:C:C5	2.86	0.44
24:BA:2213:U:C5'	24:BA:2215:G:C5	2.85	0.44
24:BA:2280:G:C6	24:BA:2281:C:N4	2.85	0.44
24:BA:2348:U:H2'	24:BA:2349:G:O5'	2.18	0.44
24:BA:2361:A:H3'	24:BA:2362:G:H8	1.83	0.44
24:BA:2376:A:C2	24:BA:2377:A:N3	2.86	0.44
24:BA:240:G:N2	24:BA:256:A:N7	2.66	0.44
24:BA:2436:G:H2'	24:BA:2437:U:O4'	2.17	0.44
24:BA:2483:C:C4	24:BA:2484:G:C8	3.05	0.44
24:BA:2588:G:O6	24:BA:2607:G:O6	2.36	0.44
24:BA:265:A:C5	24:BA:266:G:H1'	2.51	0.44
24:BA:2723:C:HO2'	38:BQ:2:ARG:N	2.16	0.44
24:BA:2777:G:C4'	24:BA:2778:A:O5'	2.63	0.44
24:BA:2808:U:O2'	24:BA:2810:A:O5'	2.35	0.44
24:BA:284:U:H2'	24:BA:285:C:C6	2.53	0.44
24:BA:2861:G:O2'	24:BA:2862:G:H5'	2.18	0.44
24:BA:2848:G:C2	24:BA:2867:G:N3	2.85	0.44
24:BA:303:U:C2'	24:BA:304:G:H5'	2.47	0.44
24:BA:329:G:H1'	24:BA:477:A:H1'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:333:G:C6	24:BA:334:C:N4	2.85	0.44
24:BA:447:A:C8	24:BA:473:G:C6	3.06	0.44
24:BA:43:G:C2'	24:BA:44:A:H5'	2.47	0.44
24:BA:506:G:H4'	24:BA:509:C:H1'	2.00	0.44
24:BA:594:U:H4'	54:B7:58:ILE:HG21	1.99	0.44
24:BA:603:A:N6	24:BA:625:G:C8	2.86	0.44
24:BA:606:U:C2'	24:BA:607:U:OP2	2.65	0.44
24:BA:618:G:C8	24:BA:618(A):C:H5	2.33	0.44
24:BA:704:G:HO2'	24:BA:705:A:P	2.36	0.44
24:BA:789:A:C4'	24:BA:790:C:OP1	2.49	0.44
24:BA:830:G:H2'	24:BA:830:G:N3	2.33	0.44
24:BA:930:U:C3'	24:BA:930:U:C6	3.01	0.44
25:BB:100:G:C3'	25:BB:101:A:H8	2.31	0.44
25:BB:16:G:C6	25:BB:17:C:C4	3.06	0.44
25:BB:73:A:O2'	25:BB:74:U:C5'	2.65	0.44
25:BB:76:G:C3'	25:BB:76:G:C8	3.00	0.44
25:BB:99:A:H2'	25:BB:100:G:C5'	2.48	0.44
27:BD:16:MET:O	27:BD:17:THR:O	2.35	0.44
27:BD:25:THR:O	27:BD:27:THR:N	2.49	0.44
27:BD:62:TYR:HE1	27:BD:86:PRO:O	2.00	0.44
28:BE:147:PRO:CG	28:BE:148:GLY:N	2.80	0.44
28:BE:119:ARG:CD	28:BE:156:MET:H	2.31	0.44
28:BE:173:VAL:CG2	28:BE:183:LEU:O	2.63	0.44
28:BE:6:GLY:HA2	28:BE:194:GLY:O	2.17	0.44
28:BE:198:VAL:HG12	28:BE:200:GLU:OE1	2.18	0.44
28:BE:26:ILE:HG23	28:BE:26:ILE:O	2.18	0.44
29:BF:116:ASP:HA	29:BF:119:ARG:CG	2.47	0.44
29:BF:120:GLU:HA	29:BF:120:GLU:OE1	2.16	0.44
29:BF:12:LEU:O	29:BF:12:LEU:HG	2.18	0.44
29:BF:83:PHE:C	29:BF:83:PHE:CD2	2.89	0.44
30:BG:64:THR:HB	30:BG:102:PHE:CZ	2.53	0.44
30:BG:43:LEU:CD1	30:BG:89:GLY:HA2	2.45	0.44
30:BG:37:VAL:N	30:BG:99:MET:SD	2.91	0.44
31:BH:40:GLU:HG3	31:BH:61:HIS:HE2	1.83	0.44
31:BH:63:SER:C	31:BH:67:LEU:HD23	2.38	0.44
31:BH:7:LEU:HD22	31:BH:65:HIS:NE2	2.33	0.44
33:BL:113:PRO:O	33:BL:115:LEU:N	2.51	0.44
24:BA:1062:G:N9	33:BL:133:SER:OG	2.51	0.44
35:BN:17:ARG:NH2	35:BN:98:VAL:CG2	2.62	0.44
35:BN:16:ALA:CB	35:BN:45:GLU:O	2.66	0.44
35:BN:72:PRO:O	35:BN:73:ASP:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:10:VAL:HA	35:BN:83:ALA:O	2.18	0.44
36:BO:45:LEU:CB	36:BO:46:LYS:HE3	2.47	0.44
36:BO:80:TYR:O	36:BO:81:GLN:C	2.55	0.44
37:BP:134:ARG:HD3	37:BP:137:TYR:H	1.82	0.44
38:BQ:53:HIS:CE1	38:BQ:56:LYS:NZ	2.86	0.44
38:BQ:63:ARG:O	38:BQ:64:ARG:C	2.56	0.44
25:BB:50:G:P	39:BR:63:THR:OG1	2.76	0.44
39:BR:17:ARG:HD2	39:BR:89:ARG:HD2	1.99	0.44
40:BS:20:PRO:HB3	40:BS:22:PHE:CE1	2.53	0.44
40:BS:65:LYS:HA	40:BS:76:PHE:C	2.39	0.44
41:BT:14:HIS:O	41:BT:17:ILE:HB	2.18	0.44
24:BA:1010:A:C5'	41:BT:66:ASN:OD1	2.66	0.44
44:BW:51:VAL:HG13	44:BW:81:VAL:CG2	2.36	0.44
44:BW:29:TRP:CE3	44:BW:78:LYS:HB2	2.53	0.44
44:BW:26:TYR:CE2	44:BW:89:ILE:HG21	2.53	0.44
45:BX:83:THR:HG22	45:BX:84:ARG:N	2.33	0.44
46:BY:10:ARG:CZ	46:BY:36:LYS:CB	2.96	0.44
46:BY:134:PRO:HB2	46:BY:135:GLU:H	1.60	0.44
46:BY:28:MET:O	46:BY:34:ASN:ND2	2.51	0.44
46:BY:2:GLU:OE1	46:BY:58:VAL:O	2.34	0.44
47:BZ:82:ARG:NH1	47:BZ:83:PRO:O	2.50	0.44
3:AD:56:C:H4'	26:BC:133:PRO:CG	2.48	0.44
24:BA:2123:G:H2'	24:BA:2124:G:C8	2.53	0.44
26:BC:103:ILE:HD11	26:BC:110:PHE:CE2	2.52	0.44
26:BC:74:VAL:CG2	26:BC:156:ILE:HD13	2.43	0.44
26:BC:4:GLY:O	26:BC:5:LYS:CG	2.64	0.44
24:BA:2195:C:HO2'	24:BA:2196:C:C4'	2.31	0.44
1:AA:1169:A:OP2	1:AA:1169:A:H8	2.00	0.44
4:AE:131:PRO:CB	4:AE:134:GLU:HG2	2.44	0.44
1:AA:342:C:C2	1:AA:343:U:C5	3.06	0.44
24:BA:32:C:C2	24:BA:474:G:N2	2.86	0.44
1:AA:105:G:C2'	1:AA:106:C:C6	2.94	0.44
1:AA:111:G:C5'	1:AA:112:G:OP2	2.65	0.44
1:AA:1183:A:H2'	1:AA:1184:G:OP1	2.17	0.44
1:AA:1227:A:C8	1:AA:1228:C:C6	3.06	0.44
1:AA:1234:C:H4'	1:AA:1364:U:C1'	2.47	0.44
1:AA:1238:A:N6	1:AA:1303:C:O4'	2.51	0.44
1:AA:1298:C:C6	9:AJ:114:ARG:NH1	2.86	0.44
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.79	0.44
1:AA:1339:A:C2	1:AA:1340:A:H1'	2.53	0.44
1:AA:976:G:C6	1:AA:1362:C:C4	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1419:G:O2'	1:AA:1420:C:H5'	2.18	0.44
1:AA:1428:A:C2	1:AA:1429:C:N3	2.86	0.44
1:AA:1433:A:C2'	1:AA:1434:A:C5'	2.96	0.44
1:AA:1447:G:O5'	1:AA:1447:G:H8	2.00	0.44
1:AA:146:G:H2'	1:AA:147:G:H5'	2.00	0.44
1:AA:1476:G:C4	1:AA:1477:C:C5	3.05	0.44
1:AA:1393:U:H4'	1:AA:1501:C:O2'	2.18	0.44
1:AA:1511:G:C2'	1:AA:1512:U:C5'	2.96	0.44
1:AA:1405:G:C1'	1:AA:1519:A:H5'	2.47	0.44
1:AA:275:G:H5'	19:AT:14:LYS:CE	2.48	0.44
1:AA:293:G:C8	1:AA:293:G:OP2	2.71	0.44
1:AA:302:G:C6	1:AA:303:A:C5	3.05	0.44
1:AA:583:A:C2'	1:AA:584:G:H8	2.31	0.44
1:AA:609:A:C2'	1:AA:610:G:H5'	2.48	0.44
1:AA:695:A:C6	1:AA:696:A:C5	3.06	0.44
1:AA:868:C:O5'	1:AA:868:C:C6	2.71	0.44
1:AA:568:G:N2	1:AA:883:C:H1'	2.33	0.44
1:AA:889:A:H4'	1:AA:890:G:C4'	2.48	0.44
1:AA:939:G:H5''	9:AJ:102:ARG:NH2	2.33	0.44
1:AA:948:C:C2	1:AA:949:A:C8	3.05	0.44
1:AA:966:G:H2'	1:AA:967:C:O5'	2.18	0.44
1:AA:966:G:C8	1:AA:967:C:C4	3.06	0.44
2:AC:12:G:H2'	2:AC:13:C:O5'	2.18	0.44
2:AC:18:G:C2	2:AC:58:A:N3	2.85	0.44
2:AC:7:G:HO2'	2:AC:8:U:P	2.27	0.44
4:AE:25:ASN:O	4:AE:25:ASN:ND2	2.49	0.44
4:AE:97:TRP:CD1	4:AE:101:MET:SD	3.11	0.44
5:AF:12:LEU:CD1	16:AQ:57:ARG:HA	2.47	0.44
5:AF:54:ARG:O	5:AF:68:VAL:HG13	2.18	0.44
5:AF:89:GLU:HG2	5:AF:90:GLU:N	2.33	0.44
6:AG:105:VAL:HG12	6:AG:120:LEU:HD21	1.98	0.44
6:AG:146:ILE:HD12	6:AG:183:GLY:O	2.17	0.44
7:AH:9:LYS:O	7:AH:32:VAL:HG13	2.18	0.44
9:AJ:143:ARG:HD2	9:AJ:143:ARG:N	2.33	0.44
10:AK:101:PRO:O	10:AK:102:ARG:CG	2.66	0.44
10:AK:107:LEU:H	10:AK:107:LEU:HD23	1.83	0.44
10:AK:45:ILE:O	10:AK:45:ILE:CG1	2.65	0.44
11:AL:27:THR:CB	11:AL:62:TYR:HD1	2.28	0.44
12:AM:49:VAL:CG1	12:AM:50:ILE:N	2.80	0.44
12:AM:50:ILE:HG23	12:AM:59:SER:HB2	2.00	0.44
13:AN:19:ALA:HB3	13:AN:82:VAL:CG2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:59:TYR:C	13:AN:62:GLN:NE2	2.71	0.44
14:AO:110:VAL:HB	14:AO:113:ARG:CG	2.47	0.44
14:AO:6:THR:HG1	14:AO:9:GLN:HB2	1.83	0.44
15:AP:2:ALA:C	15:AP:4:ILE:HD12	2.38	0.44
18:AS:39:TYR:CE1	18:AS:41:PRO:N	2.86	0.44
18:AS:74:LEU:HD22	18:AS:79:VAL:CB	2.47	0.44
18:AS:53:VAL:HA	18:AS:79:VAL:HG21	2.00	0.44
18:AS:53:VAL:CG1	18:AS:79:VAL:HG22	2.45	0.44
21:AV:25:LYS:CD	21:AV:25:LYS:H	2.30	0.44
21:AV:53:ASN:ND2	21:AV:58:VAL:HG13	2.33	0.44
21:AV:77:THR:CG2	21:AV:78:ARG:N	2.79	0.44
22:AW:87:LYS:HG3	22:AW:91:LEU:CD2	2.48	0.44
48:B1:11:LEU:N	48:B1:11:LEU:CD1	2.80	0.44
48:B1:28:MET:O	48:B1:31:ARG:N	2.51	0.44
50:B3:17:GLY:HA2	50:B3:33:VAL:HG11	1.99	0.44
24:BA:1365:A:O2'	50:B3:1:MET:CE	2.66	0.44
52:B5:33:LYS:NZ	52:B5:34:LEU:CD2	2.76	0.44
54:B7:5:LYS:CA	54:B7:60:LEU:HA	2.48	0.44
54:B7:4:MET:CE	54:B7:62:LEU:HD12	2.48	0.44
55:B8:19:ARG:HD2	55:B8:24:TYR:CD2	2.51	0.44
55:B8:19:ARG:O	55:B8:22:ARG:CG	2.65	0.44
24:BA:1050:A:H2'	24:BA:1051:G:C8	2.53	0.44
24:BA:1096:A:C8	24:BA:1097:U:C6	3.06	0.44
24:BA:1204:A:H2	29:BF:188:ARG:O	2.01	0.44
24:BA:1243:G:C6	24:BA:1244:G:C5	3.06	0.44
24:BA:489:G:C8	24:BA:1284:A:C4	3.05	0.44
24:BA:11:G:H2'	24:BA:12:U:C6	2.53	0.44
24:BA:1305:C:C2	24:BA:1306:C:C5	3.06	0.44
24:BA:1378:A:C6	24:BA:1380:G:N3	2.86	0.44
24:BA:141(A):C:C2'	24:BA:142:G:O5'	2.66	0.44
24:BA:1446:C:C4	24:BA:1466:G:N2	2.86	0.44
24:BA:1530:G:N2	24:BA:1542:G:N1	2.65	0.44
24:BA:1542:G:O6	24:BA:1544:C:N4	2.50	0.44
24:BA:1668:A:C2'	24:BA:1669:A:OP2	2.66	0.44
24:BA:1674:G:H21	24:BA:1676:A:N6	2.15	0.44
24:BA:15:G:HO2'	24:BA:16:G:H5'	1.80	0.44
24:BA:1769:G:C4	24:BA:1770:G:N7	2.86	0.44
24:BA:175:G:N1	24:BA:176:G:C4	2.85	0.44
24:BA:1853:A:C6	24:BA:1854:A:C5	3.06	0.44
24:BA:1863:G:C2'	24:BA:1864:U:C6	2.82	0.44
24:BA:1918:A:C8	24:BA:1919:A:C6	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1919:A:OP2	24:BA:1920:C:C5	2.70	0.44
24:BA:204:A:C2	24:BA:206:U:O4	2.70	0.44
24:BA:2213:U:H3'	24:BA:2215:G:C8	2.52	0.44
24:BA:2228:G:H5'	24:BA:2229:C:OP2	2.18	0.44
24:BA:2262:U:C2	24:BA:2263:C:C5	3.06	0.44
24:BA:2334:G:H21	39:BR:11:LYS:HZ2	1.65	0.44
24:BA:2533:A:C8	24:BA:2534:A:N7	2.86	0.44
24:BA:2595:G:C3'	24:BA:2595:G:C8	3.00	0.44
24:BA:2665:A:C4'	24:BA:2665:A:C8	2.95	0.44
24:BA:266:G:N2	24:BA:267:C:H1'	2.33	0.44
24:BA:2888:C:C2	24:BA:2889:C:C5	3.06	0.44
24:BA:325:G:O2'	24:BA:326:G:H5'	2.18	0.44
24:BA:354:G:C2'	24:BA:355:G:O4'	2.66	0.44
24:BA:376:C:N4	24:BA:377:C:H41	2.15	0.44
24:BA:387:U:C4'	24:BA:388:G:O4'	2.56	0.44
24:BA:426:C:H2'	24:BA:427:U:C5	2.53	0.44
24:BA:434:U:O2'	24:BA:435:C:P	2.76	0.44
24:BA:570:G:H1	24:BA:2498:C:C4'	2.30	0.44
24:BA:627:A:C4	24:BA:637:A:C5	3.06	0.44
24:BA:662:G:C2'	24:BA:663:G:H8	2.31	0.44
24:BA:698:C:N3	24:BA:762:U:C5	2.86	0.44
24:BA:730:C:C2'	24:BA:731:C:C5'	2.94	0.44
24:BA:886:C:H5''	24:BA:887:A:O4'	2.18	0.44
24:BA:962:G:C2	24:BA:963:U:N3	2.85	0.44
24:BA:972:G:C6	24:BA:973:A:N6	2.80	0.44
25:BB:9:G:C2	25:BB:10:C:C4	3.06	0.44
27:BD:165:ILE:N	27:BD:165:ILE:CD1	2.80	0.44
27:BD:7:LYS:CE	27:BD:27:THR:OG1	2.65	0.44
27:BD:5:LYS:HD3	27:BD:28:GLU:O	2.17	0.44
27:BD:74:GLY:O	27:BD:76:PRO:N	2.50	0.44
28:BE:143:ASN:HB2	28:BE:146:THR:OG1	2.18	0.44
24:BA:2787:C:H1'	28:BE:61:ARG:CZ	2.48	0.44
29:BF:201:VAL:CA	29:BF:204:ASN:HD21	2.15	0.44
30:BG:111:LEU:HD21	30:BG:178:PHE:CG	2.51	0.44
30:BG:17:PRO:O	30:BG:18:GLU:C	2.54	0.44
31:BH:84:SER:CA	31:BH:134:SER:HA	2.37	0.44
31:BH:139:GLN:O	31:BH:141:VAL:N	2.51	0.44
24:BA:2749:A:O2'	31:BH:62:LYS:HE3	2.18	0.44
31:BH:88:LEU:HD23	31:BH:89:ILE:N	2.33	0.44
31:BH:98:LEU:HD22	31:BH:100:GLY:C	2.38	0.44
33:BL:10:LEU:HD21	33:BL:41:PHE:HZ	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:116:ASN:C	33:BL:118:THR:H	2.21	0.44
34:BM:57:ALA:H	34:BM:124:ALA:CA	2.25	0.44
28:BE:152:LYS:NZ	34:BM:77:GLY:HA3	2.33	0.44
34:BM:86:PRO:CD	34:BM:89:LYS:HE2	2.46	0.44
34:BM:88:GLU:CA	34:BM:89:LYS:NZ	2.81	0.44
36:BO:9:ASN:O	36:BO:10:PRO:C	2.55	0.44
36:BO:124:LYS:C	36:BO:125:VAL:HG23	2.37	0.44
36:BO:60:MET:SD	36:BO:62:LEU:CD1	3.02	0.44
37:BP:102:VAL:HG21	37:BP:104:PHE:CZ	2.53	0.44
37:BP:109:VAL:O	37:BP:109:VAL:HG13	2.18	0.44
37:BP:139:GLU:OE1	37:BP:140:ALA:O	2.36	0.44
38:BQ:104:ARG:O	38:BQ:105:ARG:NH2	2.51	0.44
38:BQ:67:LEU:HD21	38:BQ:72:ASP:N	2.33	0.44
38:BQ:74:LYS:CB	38:BQ:74:LYS:NZ	2.80	0.44
39:BR:106:ARG:HD2	39:BR:107:GLU:CD	2.37	0.44
39:BR:13:ARG:NH2	39:BR:92:TYR:H	2.12	0.44
39:BR:70:GLY:O	39:BR:73:LEU:N	2.51	0.44
24:BA:2377:A:C2	39:BR:87:PHE:CE2	3.06	0.44
40:BS:23:ARG:HH21	40:BS:90:GLN:H	1.60	0.44
45:BX:6:HIS:CB	45:BX:71:LYS:HE2	2.48	0.44
46:BY:94:GLU:H	46:BY:95:PRO:HD2	1.64	0.44
32:BK:139:GLN:N	32:BK:139:GLN:CD	2.71	0.44
26:BC:59:ARG:HD2	26:BC:162:GLU:OE2	2.18	0.44
24:BA:1417:C:H3'	24:BA:1418:G:H8	1.80	0.44
24:BA:2185:C:C4	24:BA:2186:G:N7	2.85	0.44
24:BA:2671:A:H2'	24:BA:2672:G:O4'	2.18	0.44
24:BA:1413:G:C6	24:BA:1414:G:C8	3.06	0.44
1:AA:1018:C:HO2'	1:AA:1019:C:H5'	1.83	0.43
1:AA:1193:G:C3'	1:AA:1193:G:C8	3.00	0.43
1:AA:1246:C:H2'	1:AA:1247:U:O5'	2.18	0.43
1:AA:1250:A:N6	1:AA:1251:A:N1	2.66	0.43
1:AA:130:A:H4'	1:AA:190:G:N3	2.33	0.43
1:AA:1329:A:H5'	15:AP:29:ARG:CZ	2.48	0.43
1:AA:1338:G:C6	1:AA:1339:A:C6	3.06	0.43
1:AA:1353:G:C2	1:AA:1354:C:C5	3.06	0.43
1:AA:1390:U:N3	1:AA:1391:U:C4	2.86	0.43
1:AA:1409:C:C2'	1:AA:1410:G:H5'	2.48	0.43
1:AA:128:G:N2	1:AA:234:C:C1'	2.81	0.43
1:AA:235:C:C2	1:AA:236:G:C8	3.06	0.43
1:AA:301:G:C2	1:AA:302:G:C8	3.06	0.43
1:AA:46:G:C6	1:AA:396:G:O6	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:43:C:C2	1:AA:44:G:C8	3.06	0.43
1:AA:522:C:H2'	1:AA:523:A:O5'	2.17	0.43
1:AA:67:C:H4'	1:AA:172:A:C4'	2.48	0.43
1:AA:760:G:H5''	1:AA:761:G:OP2	2.18	0.43
1:AA:579:G:C2	1:AA:763:G:C2	3.06	0.43
1:AA:782:A:N1	1:AA:801:U:C2	2.86	0.43
1:AA:812:C:C1'	1:AA:813:U:C5	3.01	0.43
1:AA:816:A:O2'	1:AA:817:C:H5''	2.18	0.43
1:AA:834:C:C4	1:AA:853:G:N1	2.86	0.43
1:AA:866:C:H3'	1:AA:867:G:H8	1.83	0.43
1:AA:576:G:N7	1:AA:881:G:C4'	2.81	0.43
1:AA:916:G:H2'	1:AA:916:G:N3	2.33	0.43
2:AC:44:A:C6	2:AC:45:G:N2	2.86	0.43
2:AC:55:U:N3	2:AC:58:A:OP2	2.47	0.43
3:AD:4:G:O2'	3:AD:5:A:H5'	2.18	0.43
4:AE:115:LEU:HD23	4:AE:149:LEU:HB3	1.96	0.43
4:AE:178:ARG:NE	4:AE:196:LEU:CD1	2.74	0.43
4:AE:24:TRP:O	4:AE:191:ASP:HA	2.18	0.43
5:AF:139:GLN:O	5:AF:143:GLU:CG	2.64	0.43
5:AF:134:ILE:HG12	5:AF:153:VAL:CG2	2.47	0.43
5:AF:156:ARG:NH1	5:AF:161:GLU:O	2.50	0.43
5:AF:40:ARG:CG	5:AF:57:ILE:HD12	2.48	0.43
5:AF:95:THR:O	5:AF:97:LYS:HE2	2.17	0.43
6:AG:104:VAL:HA	6:AG:107:ARG:CG	2.48	0.43
6:AG:110:PHE:CZ	6:AG:147:ALA:CB	3.01	0.43
6:AG:118:ARG:O	6:AG:121:VAL:HB	2.18	0.43
1:AA:495:A:H61	6:AG:123:HIS:CE1	2.36	0.43
9:AJ:108:ALA:O	9:AJ:109:ASN:C	2.56	0.43
9:AJ:108:ALA:O	9:AJ:111:ARG:N	2.51	0.43
10:AK:18:ARG:NH1	10:AK:18:ARG:N	2.44	0.43
10:AK:69:ARG:NH1	10:AK:69:ARG:HG3	2.32	0.43
10:AK:83:ILE:HG23	10:AK:83:ILE:O	2.18	0.43
10:AK:88:LYS:C	10:AK:90:GLY:N	2.71	0.43
11:AL:38:GLN:O	11:AL:39:GLY:C	2.57	0.43
13:AN:40:ILE:CD1	13:AN:40:ILE:N	2.72	0.43
13:AN:44:SER:N	13:AN:47:VAL:CG2	2.81	0.43
13:AN:58:PRO:HB3	13:AN:90:GLY:CA	2.47	0.43
14:AO:84:LEU:HD23	14:AO:101:VAL:CG2	2.48	0.43
1:AA:625:G:C4'	18:AS:16:HIS:CD2	3.00	0.43
19:AT:34:LYS:HD2	19:AT:35:VAL:N	2.32	0.43
21:AV:30:LEU:HG	21:AV:50:ALA:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:11:VAL:HG13	21:AV:38:SER:HG	1.83	0.43
21:AV:41:VAL:N	21:AV:44:MET:SD	2.80	0.43
1:AA:986:A:O2'	21:AV:55:LYS:HG3	2.18	0.43
22:AW:18:GLN:H	22:AW:18:GLN:HG2	1.44	0.43
48:B1:28:MET:O	48:B1:29:GLU:C	2.55	0.43
50:B3:70:GLY:O	50:B3:71:ARG:CB	2.65	0.43
51:B4:10:LYS:HA	51:B4:15:ARG:HH21	1.83	0.43
52:B5:29:ASN:ND2	52:B5:29:ASN:H	2.16	0.43
24:BA:2286:A:H1'	52:B5:37:ARG:NH2	2.33	0.43
52:B5:41:PRO:HB2	52:B5:43:CYS:H	1.83	0.43
24:BA:126:A:OP2	53:B6:19:ARG:HB2	2.18	0.43
24:BA:1309:G:OP1	53:B6:9:ARG:HB2	2.17	0.43
24:BA:1004:C:O5'	24:BA:1004:C:H6	2.00	0.43
24:BA:1183:G:O2'	24:BA:1184:G:OP2	2.33	0.43
24:BA:1275:A:N7	24:BA:1296:G:C1'	2.80	0.43
24:BA:1343:G:H3'	24:BA:1344:G:H5''	1.99	0.43
24:BA:1364:G:C8	24:BA:1364:G:OP1	2.71	0.43
24:BA:1409:C:O2'	24:BA:1410:G:H5'	2.18	0.43
24:BA:1438:U:C4	24:BA:1553:A:N6	2.81	0.43
24:BA:1499:C:H2'	24:BA:1500:G:C8	2.53	0.43
24:BA:149:A:C5	24:BA:150:C:C4	3.06	0.43
24:BA:1700:A:H5'	24:BA:1701:A:H8	1.83	0.43
24:BA:1791:A:C2	24:BA:1829:A:H4'	2.53	0.43
24:BA:1791:A:H2'	24:BA:1792:G:O5'	2.17	0.43
24:BA:1793:C:H2'	24:BA:1794:U:C6	2.53	0.43
24:BA:1790:C:C5'	24:BA:1828:G:H22	2.31	0.43
24:BA:1905:C:H2'	24:BA:1930:G:C8	2.53	0.43
24:BA:194:G:H2'	24:BA:195:A:H8	1.83	0.43
24:BA:1773:A:H2	24:BA:1977:A:N6	2.14	0.43
24:BA:2019:A:O5'	24:BA:2019:A:H8	2.00	0.43
24:BA:2040:C:C4	24:BA:2041:U:C5	3.05	0.43
24:BA:2078:C:H5'	24:BA:2434:A:C4'	2.48	0.43
24:BA:2277:G:C5	24:BA:2278:A:N7	2.85	0.43
24:BA:2306:C:OP1	30:BG:136:ARG:HD3	2.18	0.43
24:BA:2376:A:C2	24:BA:2377:A:C4	3.05	0.43
24:BA:2378:A:N3	24:BA:2378:A:C2'	2.81	0.43
24:BA:2414:G:N1	24:BA:2415:G:N7	2.65	0.43
24:BA:2422:A:N3	24:BA:2424:C:C4	2.86	0.43
24:BA:2428:G:H4'	24:BA:2429:G:O5'	2.18	0.43
24:BA:2439:A:H4'	24:BA:2440:C:H5''	1.99	0.43
24:BA:2441:C:H2'	24:BA:2442:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2531:A:O2'	24:BA:2532:G:H5'	2.17	0.43
24:BA:2525:G:C2	24:BA:2539:C:N4	2.86	0.43
24:BA:2560:C:C2'	24:BA:2560:C:O2	2.57	0.43
24:BA:1966:A:C4	24:BA:2593:U:H5'	2.53	0.43
2:AC:75:C:OP1	24:BA:2602:A:OP1	2.36	0.43
24:BA:2674:G:H2'	24:BA:2675:A:H8	1.75	0.43
24:BA:2779:U:C6	24:BA:2779:U:C4'	3.01	0.43
24:BA:2784:C:H1'	28:BE:41:LYS:HZ3	1.80	0.43
24:BA:279:C:N4	24:BA:359:A:C2	2.86	0.43
24:BA:11:G:O2'	24:BA:2802:G:OP2	2.28	0.43
24:BA:2846:G:C2'	24:BA:2846:G:N3	2.78	0.43
24:BA:285:C:C2	24:BA:357:A:C2	3.06	0.43
24:BA:493:G:N2	24:BA:494:G:C4	2.85	0.43
24:BA:553:U:H2'	24:BA:554:U:C6	2.53	0.43
24:BA:596:G:N9	24:BA:662:G:N2	2.66	0.43
24:BA:66:C:O2	24:BA:66:C:C2'	2.66	0.43
24:BA:729:G:N3	24:BA:730:C:H1'	2.32	0.43
24:BA:702:G:C2	24:BA:731:C:N3	2.86	0.43
24:BA:73:A:H8	24:BA:73:A:O5'	2.01	0.43
24:BA:751:A:OP1	24:BA:1614:A:OP1	2.36	0.43
24:BA:797:C:H2'	24:BA:798:G:O5'	2.17	0.43
24:BA:849:A:O2'	24:BA:850:C:H5'	2.18	0.43
24:BA:852:G:C6	24:BA:926:A:C6	3.06	0.43
24:BA:853:G:N3	24:BA:854:G:C8	2.86	0.43
24:BA:864:G:H2'	24:BA:865:C:O4'	2.17	0.43
24:BA:911:A:H2	37:BP:13:GLN:HG3	1.82	0.43
24:BA:848:G:C2	24:BA:933:A:C4	3.05	0.43
24:BA:942:G:O2'	24:BA:943:U:OP1	2.36	0.43
24:BA:977:G:C5	24:BA:987:G:N1	2.86	0.43
25:BB:39:A:C2	25:BB:44:G:C4	3.06	0.43
25:BB:7:G:O2'	25:BB:8:U:OP1	2.36	0.43
27:BD:147:LEU:H	27:BD:154:LYS:HG2	1.83	0.43
27:BD:53:PHE:CD2	27:BD:221:VAL:HG22	2.53	0.43
27:BD:88:ARG:HD3	27:BD:89:SER:N	2.24	0.43
28:BE:118:LYS:CB	28:BE:118:LYS:NZ	2.81	0.43
24:BA:659:C:C5'	29:BF:102:PRO:HD3	2.48	0.43
29:BF:126:VAL:HB	29:BF:197:ASP:CG	2.38	0.43
29:BF:153:SER:HG	29:BF:190:GLU:H	1.65	0.43
29:BF:203:GLN:C	29:BF:205:ARG:N	2.70	0.43
29:BF:39:TRP:CZ3	29:BF:43:LYS:CB	2.98	0.43
30:BG:102:PHE:CD2	30:BG:106:LEU:CD1	2.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:108:ASN:OD1	30:BG:111:LEU:CD2	2.62	0.43
30:BG:110:ALA:O	30:BG:113:ARG:HD3	2.17	0.43
31:BH:45:VAL:HA	31:BH:49:VAL:O	2.18	0.43
31:BH:85:LYS:HD3	31:BH:145:ALA:HB1	1.99	0.43
32:BK:22:LYS:HB2	32:BK:25:TYR:CG	2.53	0.43
32:BK:47:LEU:O	32:BK:48:GLU:C	2.57	0.43
33:BL:39:LYS:O	33:BL:42:ASN:HB2	2.18	0.43
34:BM:27:ALA:O	34:BM:30:ILE:N	2.51	0.43
34:BM:29:LYS:O	34:BM:31:ALA:N	2.51	0.43
34:BM:4:TYR:CE2	41:BT:100:VAL:CG2	3.00	0.43
34:BM:3:THR:HG22	34:BM:4:TYR:N	2.32	0.43
24:BA:1140:C:OP2	34:BM:63:THR:CG2	2.65	0.43
34:BM:69:GLN:NE2	34:BM:69:GLN:H	2.14	0.43
24:BA:1130:U:O2'	34:BM:79:PRO:HD3	2.17	0.43
35:BN:88:ASN:C	35:BN:90:GLN:N	2.71	0.43
36:BO:77:ARG:HB2	36:BO:115:LEU:CD2	2.47	0.43
37:BP:127:ILE:HB	37:BP:128:LYS:H	1.24	0.43
37:BP:33:GLY:CA	37:BP:34:LEU:HD23	2.47	0.43
24:BA:871:U:O2'	37:BP:69:PHE:CE2	2.60	0.43
37:BP:69:PHE:O	37:BP:95:ALA:HA	2.18	0.43
39:BR:17:ARG:C	39:BR:20:ARG:HG2	2.39	0.43
39:BR:40:ILE:HD12	39:BR:40:ILE:N	2.33	0.43
39:BR:44:LYS:CB	39:BR:46:VAL:HG13	2.39	0.43
40:BS:64:ARG:NE	40:BS:77:PRO:HB3	2.33	0.43
40:BS:73:GLU:OE2	40:BS:106:SER:OG	2.34	0.43
41:BT:33:ARG:O	41:BT:34:LYS:C	2.57	0.43
42:BU:21:ARG:NH1	42:BU:21:ARG:HG2	2.29	0.43
44:BW:47:PHE:O	44:BW:88:LYS:HE2	2.18	0.43
44:BW:73:ARG:HH12	44:BW:75:ASP:N	2.15	0.43
45:BX:13:VAL:HG22	45:BX:14:LEU:N	2.30	0.43
46:BY:86:VAL:HG12	46:BY:88:PHE:HE2	1.81	0.43
46:BY:28:MET:HE1	46:BY:88:PHE:HB2	1.99	0.43
47:BZ:51:VAL:HG22	47:BZ:80:HIS:HA	1.98	0.43
3:AD:54:U:C3'	3:AD:55:U:H5'	2.48	0.43
3:AD:58:A:O2'	3:AD:60:U:C4	2.67	0.43
26:BC:113:VAL:O	26:BC:144:THR:CA	2.59	0.43
26:BC:131:LEU:HD22	26:BC:136:LEU:HB2	1.99	0.43
26:BC:192:PHE:O	26:BC:193:ILE:C	2.56	0.43
26:BC:79:LYS:O	26:BC:80:GLY:C	2.54	0.43
1:AA:1169:A:N1	1:AA:1170:A:C2	2.86	0.43
4:AE:126:GLU:O	4:AE:127:ILE:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:62:ASP:O	5:AF:62:ASP:OD1	2.36	0.43
1:AA:1181:G:N7	1:AA:1182:G:C2	2.85	0.43
1:AA:1193:G:C6	1:AA:1194:U:C5	3.06	0.43
1:AA:1202:G:H2'	1:AA:1202:G:N3	2.32	0.43
1:AA:1219:U:O2'	21:AV:34:TRP:HB3	2.18	0.43
1:AA:1255:G:H21	1:AA:1276:G:H22	1.64	0.43
1:AA:131:C:O2	1:AA:132:C:C6	2.71	0.43
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.18	0.43
1:AA:133:U:O2'	1:AA:134:A:C8	2.59	0.43
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.17	0.43
1:AA:1429:C:C4'	24:BA:1703:G:HO2'	2.31	0.43
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.18	0.43
1:AA:1486:G:C2	1:AA:1487:G:C4	3.06	0.43
1:AA:781:A:H5''	1:AA:1523:G:O4'	2.18	0.43
1:AA:186(B):C:C2'	1:AA:186(C):G:H5'	2.47	0.43
1:AA:130:A:N3	1:AA:264:U:O4'	2.51	0.43
1:AA:266:G:N2	1:AA:270:A:H62	2.15	0.43
1:AA:323:U:C5	1:AA:324:G:H1'	2.53	0.43
1:AA:372:C:C4	1:AA:389:A:N6	2.82	0.43
1:AA:595:G:C8	1:AA:641:U:O4	2.70	0.43
1:AA:640:A:C2'	1:AA:641:U:C5'	2.88	0.43
1:AA:648:A:H2'	1:AA:649:G:C5'	2.49	0.43
1:AA:715:A:C2'	1:AA:716:A:O4'	2.59	0.43
1:AA:734:G:H2'	1:AA:735:C:H6	1.69	0.43
1:AA:790:A:C5	1:AA:791:G:C5	3.05	0.43
1:AA:850:U:C2	1:AA:851:G:N7	2.86	0.43
1:AA:585:G:N3	1:AA:879:C:H4'	2.33	0.43
1:AA:88:C:C2'	1:AA:89:U:OP2	2.66	0.43
3:AD:72:C:O2	3:AD:72:C:C2'	2.66	0.43
3:AD:75:C:C5'	3:AD:76:A:O3'	2.64	0.43
4:AE:61:LEU:HB2	4:AE:64:ARG:HH11	1.82	0.43
6:AG:110:PHE:HE1	6:AG:148:VAL:HG23	1.83	0.43
6:AG:176:LEU:O	6:AG:176:LEU:HG	2.18	0.43
6:AG:144:ASP:N	6:AG:185:PHE:HB3	2.33	0.43
6:AG:60:GLU:CG	6:AG:202:LEU:HB3	2.48	0.43
7:AH:37:ARG:HH11	7:AH:37:ARG:HG2	1.82	0.43
8:AI:96:PRO:HD2	20:AU:32:ARG:NH2	2.30	0.43
10:AK:123:GLU:CG	10:AK:124:ALA:N	2.80	0.43
10:AK:26:VAL:C	10:AK:58:TYR:HE1	2.16	0.43
11:AL:111:ARG:HD2	16:AQ:61:TRP:NE1	2.31	0.43
1:AA:1148:U:H6	11:AL:16:ARG:CZ	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:19:SER:N	12:AM:91:PRO:HG3	2.33	0.43
12:AM:81:THR:O	12:AM:83:GLU:N	2.51	0.43
13:AN:22:HIS:CD2	13:AN:22:HIS:C	2.91	0.43
13:AN:24:SER:O	13:AN:89:ALA:HB2	2.17	0.43
13:AN:21:ILE:HG12	13:AN:82:VAL:HG13	2.00	0.43
13:AN:22:HIS:CB	13:AN:85:ARG:HB2	2.44	0.43
1:AA:523:A:N1	14:AO:92:ASP:HB3	2.33	0.43
15:AP:29:ARG:HH12	15:AP:66:LEU:HB3	1.82	0.43
17:AR:81:LEU:HD23	17:AR:81:LEU:C	2.37	0.43
18:AS:26:ARG:HH11	18:AS:26:ARG:CG	2.31	0.43
19:AT:40:LYS:HB3	19:AT:40:LYS:NZ	2.32	0.43
19:AT:52:LYS:O	19:AT:53:LEU:C	2.56	0.43
19:AT:57:VAL:HB	19:AT:76:LEU:HA	2.00	0.43
20:AU:29:PHE:CE2	20:AU:39:VAL:CG1	3.00	0.43
21:AV:57:HIS:O	21:AV:59:PRO:HD3	2.19	0.43
22:AW:18:GLN:O	22:AW:22:ARG:HG3	2.18	0.43
48:B1:27:LEU:HD21	48:B1:48:LEU:O	2.18	0.43
49:B2:28:LEU:HD23	49:B2:33:GLN:OE1	2.17	0.43
24:BA:389:G:H5'	50:B3:24:THR:OG1	2.18	0.43
50:B3:19:GLY:CA	50:B3:30:GLU:O	2.60	0.43
53:B6:19:ARG:CB	53:B6:23:ARG:NH2	2.68	0.43
54:B7:63:PRO:CG	54:B7:64:TYR:H	2.31	0.43
55:B8:10:ILE:CD1	55:B8:32:HIS:HD2	2.30	0.43
24:BA:1027:A:N3	24:BA:1028:A:N7	2.66	0.43
24:BA:1080:C:H1'	33:BL:126:MET:CA	2.37	0.43
24:BA:1264:G:N7	24:BA:1265:A:C8	2.86	0.43
24:BA:1324:G:C2'	24:BA:1325:G:OP1	2.65	0.43
24:BA:1347:G:N2	24:BA:1600:C:C2	2.86	0.43
24:BA:1488:G:C6	24:BA:1489:U:C1'	3.00	0.43
24:BA:1507:A:C2'	24:BA:1507:A:N3	2.73	0.43
24:BA:1534:G:H2'	24:BA:1536:A:N7	2.33	0.43
24:BA:1630:G:C5	24:BA:1630(A):C:C5	3.06	0.43
24:BA:1668:A:N7	24:BA:1674:G:C5	2.86	0.43
24:BA:1788:C:C2	24:BA:1789:A:O4'	2.72	0.43
24:BA:1791:A:N1	24:BA:1829:A:O4'	2.51	0.43
24:BA:1813:G:H4'	27:BD:46:GLN:CG	2.46	0.43
24:BA:1827:C:C2	24:BA:1828:G:H1'	2.52	0.43
24:BA:1948:G:N2	24:BA:1949:G:N3	2.67	0.43
24:BA:196:A:N1	24:BA:828:U:C5'	2.72	0.43
24:BA:1998:G:O6	24:BA:1999:C:N4	2.51	0.43
24:BA:2000:G:H2'	24:BA:2001:A:C8	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2027:G:C2'	24:BA:2028:U:O4'	2.65	0.43
24:BA:2078:C:O2'	24:BA:2433:A:O2'	2.29	0.43
24:BA:2259:G:C8	24:BA:2427:C:N4	2.85	0.43
24:BA:2305:A:H1'	30:BG:155:MET:C	2.38	0.43
24:BA:2436:G:H2'	24:BA:2437:U:O5'	2.18	0.43
24:BA:2458:G:O2'	24:BA:2459:A:O5'	2.29	0.43
24:BA:2474:C:O5'	24:BA:2474:C:H6	2.01	0.43
24:BA:2031:A:N6	24:BA:2498:C:C2'	2.81	0.43
24:BA:2449:U:H5'	24:BA:2498:C:OP1	2.18	0.43
24:BA:2447:G:N3	24:BA:2500:U:C4	2.86	0.43
24:BA:252:G:C2	24:BA:253:C:C5	3.07	0.43
24:BA:2653:U:OP2	24:BA:2654:A:H3'	2.17	0.43
24:BA:2698:U:C2'	24:BA:2699:C:C6	2.87	0.43
24:BA:2734:A:H2	28:BE:203:LYS:HB3	1.83	0.43
24:BA:2765:A:C2'	24:BA:2765:A:N3	2.80	0.43
24:BA:2766:G:C2'	24:BA:2766:G:N3	2.81	0.43
24:BA:2623:G:H5'	24:BA:2826:A:O2'	2.19	0.43
24:BA:306:U:O4	24:BA:310:A:C8	2.71	0.43
24:BA:322:A:OP1	29:BF:168:ARG:NE	2.50	0.43
24:BA:108:U:C5'	24:BA:348:G:N2	2.81	0.43
24:BA:387:U:H3	50:B3:31:ILE:HG22	1.83	0.43
24:BA:410:G:C6	24:BA:411:G:O6	2.71	0.43
24:BA:410:G:O6	24:BA:418:G:C6	2.71	0.43
24:BA:281:G:O4'	24:BA:427:U:O2	2.36	0.43
24:BA:499:U:C2'	24:BA:500:G:H5'	2.48	0.43
24:BA:559:G:C8	24:BA:559:G:C3'	3.01	0.43
24:BA:584:C:H2'	24:BA:585:G:C5'	2.48	0.43
24:BA:627:A:C1'	24:BA:637:A:C6	3.01	0.43
24:BA:653:A:O5'	24:BA:654:A:H4'	2.19	0.43
24:BA:605:C:C4'	24:BA:658:C:H4'	2.49	0.43
24:BA:688:U:H2'	24:BA:689:A:C8	2.53	0.43
24:BA:705:A:C2'	24:BA:706:A:O5'	2.67	0.43
24:BA:701:G:O6	24:BA:732:C:N4	2.51	0.43
24:BA:918:A:H5'	24:BA:919:G:P	2.56	0.43
24:BA:942:G:HO2'	24:BA:1189:A:H2	1.53	0.43
24:BA:959:A:H2'	24:BA:960:A:C8	2.53	0.43
25:BB:55:U:O2	25:BB:56:G:H1'	2.18	0.43
25:BB:60:C:C2'	25:BB:60:C:O2	2.63	0.43
25:BB:6:C:H2'	25:BB:7:G:O5'	2.18	0.43
25:BB:75:G:C5'	46:BY:11:GLU:HA	2.47	0.43
24:BA:1820:U:C1'	27:BD:202:LYS:CG	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:55:GLY:CA	27:BD:219:PRO:HD2	2.43	0.43
27:BD:226:MET:HE2	27:BD:235:GLY:CA	2.47	0.43
27:BD:51:VAL:C	27:BD:52:ARG:CD	2.60	0.43
27:BD:9:TYR:O	27:BD:11:PRO:HD3	2.18	0.43
28:BE:23:VAL:HG12	28:BE:188:VAL:HG22	2.00	0.43
28:BE:42:ASP:C	28:BE:44:TYR:N	2.70	0.43
29:BF:184:TYR:O	29:BF:186:ILE:N	2.50	0.43
29:BF:122:LYS:CE	29:BF:192:LEU:HD12	2.48	0.43
29:BF:200:GLU:O	29:BF:203:GLN:HB2	2.18	0.43
29:BF:62:ARG:NH2	29:BF:63:LYS:NZ	2.65	0.43
29:BF:9:ILE:HG23	29:BF:10:PRO:N	2.33	0.43
30:BG:96:ARG:HG3	30:BG:97:ASP:H	1.83	0.43
31:BH:28:GLY:HA3	31:BH:79:VAL:O	2.18	0.43
31:BH:61:HIS:HA	31:BH:64:LEU:HB2	2.00	0.43
33:BL:14:ALA:H	33:BL:53:VAL:CG2	2.32	0.43
33:BL:67:PHE:CD1	33:BL:68:VAL:HG22	2.52	0.43
34:BM:127:ASP:CA	34:BM:129:PRO:HD2	2.47	0.43
34:BM:23:LEU:CD1	34:BM:62:VAL:O	2.66	0.43
35:BN:70:LYS:HG2	35:BN:104:ARG:HG3	2.00	0.43
35:BN:122:LEU:HA	40:BS:70:VAL:C	2.38	0.43
35:BN:2:ILE:HB	35:BN:32:TYR:HB3	2.00	0.43
35:BN:22:ILE:CD1	35:BN:40:VAL:HG22	2.47	0.43
35:BN:96:THR:O	35:BN:97:ARG:NH2	2.50	0.43
36:BO:100:LEU:HD23	36:BO:100:LEU:N	2.34	0.43
36:BO:114:ILE:C	36:BO:116:GLY:H	2.20	0.43
36:BO:55:ARG:CG	36:BO:55:ARG:HH21	2.27	0.43
37:BP:128:LYS:HB2	37:BP:128:LYS:HE3	1.65	0.43
39:BR:10:ARG:HH12	39:BR:89:ARG:NH2	2.16	0.43
39:BR:49:VAL:HG11	39:BR:80:LEU:HB2	1.97	0.43
39:BR:64:GLU:OE2	39:BR:67:ARG:HB3	2.18	0.43
40:BS:53:ARG:HH11	40:BS:53:ARG:CG	2.30	0.43
40:BS:50:ILE:HD13	40:BS:76:PHE:HB3	2.00	0.43
40:BS:99:LEU:HA	40:BS:99:LEU:HD13	1.63	0.43
41:BT:14:HIS:CD2	41:BT:36:ARG:HH12	2.36	0.43
41:BT:50:ARG:CB	41:BT:50:ARG:CZ	2.91	0.43
41:BT:59:ARG:CB	41:BT:59:ARG:NH1	2.69	0.43
45:BX:50:ARG:O	45:BX:51:VAL:C	2.57	0.43
45:BX:65:ALA:CB	45:BX:66:PRO:CD	2.96	0.43
45:BX:8:LYS:NZ	45:BX:28:LYS:HG2	2.33	0.43
45:BX:91:GLU:O	45:BX:92:ASN:C	2.56	0.43
46:BY:10:ARG:HB2	46:BY:36:LYS:NZ	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:171:ILE:HG13	46:BY:172:ALA:N	2.33	0.43
46:BY:24:LEU:HD13	46:BY:83:PRO:CG	2.47	0.43
46:BY:36:LYS:HE3	46:BY:36:LYS:HB2	1.52	0.43
47:BZ:39:ARG:HH11	47:BZ:39:ARG:HG2	1.83	0.43
32:BK:102:SER:OG	32:BK:108:THR:HG23	2.18	0.43
32:BK:110:ASP:O	32:BK:111:PRO:O	2.37	0.43
32:BK:113:ARG:CZ	32:BK:132:PRO:HA	2.48	0.43
3:AD:9:A:N6	3:AD:22:G:C8	2.86	0.43
24:BA:2171:A:O2'	24:BA:2172:U:C4'	2.67	0.43
26:BC:97:GLU:HG2	26:BC:122:ALA:CB	2.47	0.43
24:BA:162:U:H5''	24:BA:171:G:N7	2.33	0.43
40:BS:40:THR:HB	40:BS:42:ILE:HG13	2.00	0.43
17:AR:45:VAL:HG12	17:AR:45:VAL:O	2.18	0.43
1:AA:1064:G:H5'	1:AA:1065:U:OP1	2.18	0.43
1:AA:1086:U:OP2	1:AA:1087:G:OP2	2.36	0.43
1:AA:110:C:H2'	1:AA:111:G:H5'	1.99	0.43
1:AA:1130:A:C6	1:AA:1146:A:C6	3.07	0.43
1:AA:955:U:C1'	1:AA:1227:A:H61	2.22	0.43
1:AA:1240:U:C6	9:AJ:32:ARG:NH2	2.87	0.43
1:AA:1250:A:C5	1:AA:1251:A:C6	3.07	0.43
1:AA:1348:U:H2'	1:AA:1348:U:O2	2.19	0.43
1:AA:1357:A:C5	1:AA:1358:U:C5	3.06	0.43
1:AA:1363:A:H8	1:AA:1363:A:OP1	2.01	0.43
1:AA:1450:U:C1'	1:AA:1454:G:N2	2.81	0.43
1:AA:145:G:O6	1:AA:178:C:N4	2.51	0.43
1:AA:268:C:O2'	1:AA:269:C:H5'	2.18	0.43
1:AA:28:G:C6	1:AA:29:G:N7	2.87	0.43
1:AA:322:C:C2'	1:AA:323:U:C5'	2.97	0.43
1:AA:432:A:C8	1:AA:433:C:C5	3.06	0.43
1:AA:478:A:C8	1:AA:478:A:O5'	2.69	0.43
1:AA:520:A:N6	1:AA:529:G:N2	2.62	0.43
1:AA:577:G:N2	1:AA:578:C:C1'	2.80	0.43
1:AA:582:U:H5''	17:AR:68:ARG:NH1	2.28	0.43
1:AA:593:G:C5	1:AA:594:G:C8	3.06	0.43
1:AA:595:G:N7	1:AA:641:U:C2	2.87	0.43
1:AA:657:G:C4	1:AA:658:G:C8	3.06	0.43
1:AA:64:G:H4'	1:AA:65:U:O5'	2.17	0.43
1:AA:682:G:N1	1:AA:683:G:N7	2.65	0.43
1:AA:720:C:C6	1:AA:720:C:C3'	3.01	0.43
1:AA:756:C:H4'	1:AA:823:G:O2'	2.18	0.43
2:AC:14:A:H2'	2:AC:15:G:H8	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:29:G:H2'	2:AC:30:G:O5'	2.17	0.43
4:AE:152:PHE:C	4:AE:154:LEU:N	2.70	0.43
4:AE:172:ILE:O	4:AE:175:ARG:HB3	2.19	0.43
4:AE:41:ILE:N	4:AE:41:ILE:CD1	2.80	0.43
5:AF:88:ARG:HH21	5:AF:101:LEU:HB3	1.83	0.43
5:AF:87:LEU:HB2	5:AF:101:LEU:HD12	2.01	0.43
5:AF:84:ILE:C	5:AF:101:LEU:HD13	2.38	0.43
5:AF:173:VAL:O	5:AF:175:LEU:HD12	2.18	0.43
5:AF:63:ASN:C	5:AF:64:VAL:HG23	2.39	0.43
6:AG:126:ILE:O	6:AG:126:ILE:CG2	2.59	0.43
6:AG:101:LEU:N	6:AG:138:TYR:O	2.37	0.43
6:AG:173:TRP:CG	6:AG:189:PRO:HA	2.54	0.43
6:AG:30:LYS:CA	6:AG:34:GLU:HB3	2.49	0.43
7:AH:129:ILE:O	7:AH:130:ASN:C	2.57	0.43
7:AH:53:LEU:CD2	7:AH:53:LEU:N	2.72	0.43
8:AI:53:ALA:HB2	8:AI:86:ARG:CD	2.45	0.43
8:AI:6:VAL:CG1	8:AI:8:ILE:HD11	2.48	0.43
12:AM:3:LYS:CD	12:AM:3:LYS:N	2.81	0.43
12:AM:3:LYS:CE	12:AM:3:LYS:N	2.81	0.43
15:AP:27:LYS:C	15:AP:29:ARG:N	2.71	0.43
15:AP:64:TRP:HB3	15:AP:66:LEU:HD23	1.99	0.43
19:AT:29:HIS:CE1	19:AT:31:LEU:N	2.82	0.43
19:AT:63:ARG:HG2	19:AT:64:PRO:N	2.32	0.43
20:AU:31:LEU:N	20:AU:31:LEU:CD1	2.81	0.43
13:AN:84:VAL:CG2	20:AU:88:LYS:NZ	2.81	0.43
22:AW:102:GLY:C	22:AW:104:LEU:H	2.22	0.43
22:AW:53:LEU:HB2	22:AW:100:ILE:CG1	2.43	0.43
48:B1:59:LEU:HD11	48:B1:63:ARG:CG	2.49	0.43
48:B1:59:LEU:HD11	48:B1:63:ARG:HG3	2.00	0.43
50:B3:17:GLY:HA2	50:B3:33:VAL:CG1	2.48	0.43
51:B4:40:LYS:CG	51:B4:41:PRO:N	2.81	0.43
52:B5:25:LYS:CD	54:B7:35:GLN:HG3	2.49	0.43
52:B5:33:LYS:CE	52:B5:34:LEU:HD23	2.48	0.43
53:B6:20:ALA:N	53:B6:23:ARG:CZ	2.81	0.43
53:B6:22:MET:CA	53:B6:28:ARG:HG3	2.40	0.43
53:B6:1:MET:O	53:B6:2:LYS:C	2.56	0.43
53:B6:32:LYS:N	53:B6:35:ARG:HD3	2.33	0.43
54:B7:7:HIS:O	54:B7:11:LYS:HE3	2.18	0.43
55:B8:15:LYS:O	55:B8:25:VAL:CA	2.64	0.43
55:B8:23:VAL:O	55:B8:24:TYR:HD1	2.01	0.43
24:BA:10:G:C2	24:BA:11:G:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1108:U:C6	24:BA:1109:C:N3	2.86	0.43
24:BA:1044:G:C6	24:BA:1112:G:N3	2.87	0.43
24:BA:1131:G:N2	24:BA:1132:A:C5	2.86	0.43
24:BA:1252:G:H8	24:BA:1253:A:H1'	1.82	0.43
24:BA:1276:A:OP2	24:BA:1645:G:O2'	2.32	0.43
24:BA:1300:U:H4'	24:BA:1301:A:O5'	2.19	0.43
24:BA:1326:U:O4'	24:BA:1326:U:OP2	2.36	0.43
24:BA:1343:G:C6	24:BA:1404:C:N4	2.74	0.43
24:BA:1392:A:N6	24:BA:1393:A:N6	2.65	0.43
24:BA:1434:A:H2'	24:BA:1435:G:C5'	2.49	0.43
24:BA:1441:G:C2'	24:BA:1442:G:H5'	2.48	0.43
24:BA:14:A:N7	24:BA:15:G:C1'	2.81	0.43
24:BA:1528:A:N1	24:BA:1545:A:N1	2.65	0.43
24:BA:1528:A:C8	24:BA:1529:A:C4	3.06	0.43
24:BA:1546:C:O5'	24:BA:1546:C:H6	2.02	0.43
24:BA:1609:A:N3	24:BA:1609:A:C2'	2.82	0.43
24:BA:1672:C:C5	24:BA:1673:U:C5	3.06	0.43
24:BA:1731:G:C3'	24:BA:1731:G:N3	2.81	0.43
24:BA:1732:A:H3'	24:BA:1733:G:H5'	2.00	0.43
24:BA:1774:C:C5	24:BA:1775:U:C4	3.06	0.43
24:BA:1802:A:OP1	24:BA:1814:G:N2	2.48	0.43
24:BA:1815:A:C8	24:BA:1817:G:C2	3.06	0.43
24:BA:1824:G:H2'	24:BA:1825:A:C1'	2.48	0.43
24:BA:1939:U:O2	24:BA:1939:U:O4'	2.36	0.43
24:BA:1975:G:H2'	24:BA:1976:U:O5'	2.17	0.43
24:BA:2227:A:H5''	27:BD:260:ARG:HB3	2.00	0.43
24:BA:2308:G:C3'	24:BA:2310:A:N6	2.81	0.43
24:BA:2366:A:C8	24:BA:2367:G:C8	3.07	0.43
24:BA:2484:G:C2'	24:BA:2485:G:H5'	2.48	0.43
24:BA:1028:A:H1'	24:BA:2487:G:OP1	2.18	0.43
24:BA:2590:A:C6	24:BA:2591:C:N4	2.87	0.43
24:BA:1754:C:C2	24:BA:2717:G:H5'	2.53	0.43
24:BA:272:G:C6	24:BA:273:G:C4	3.07	0.43
24:BA:2783:G:C5	24:BA:2784:C:C5	3.06	0.43
24:BA:2816:C:N3	24:BA:2817:G:N7	2.66	0.43
24:BA:2846:G:OP1	40:BS:57:PHE:CD2	2.72	0.43
24:BA:108:U:H4'	24:BA:348:G:N3	2.34	0.43
24:BA:364:C:O2'	24:BA:365:C:C5'	2.66	0.43
24:BA:379:G:O6	24:BA:380:U:C4	2.71	0.43
24:BA:455:C:H3'	24:BA:455:C:H6	1.84	0.43
24:BA:572:A:N6	24:BA:573:G:N1	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:702:G:C2	24:BA:731:C:C2	3.07	0.43
24:BA:71:A:O2'	24:BA:72:U:C5'	2.66	0.43
24:BA:825:C:H2'	24:BA:826:U:H6	1.82	0.43
24:BA:944:G:N3	24:BA:944:G:H2'	2.33	0.43
24:BA:949:C:H2'	24:BA:950:G:C8	2.42	0.43
24:BA:950:G:C5	24:BA:951:C:N4	2.86	0.43
24:BA:972:G:O6	24:BA:973:A:N6	2.38	0.43
24:BA:991:C:O2'	24:BA:992:C:H5'	2.19	0.43
27:BD:144:ALA:O	27:BD:153:ALA:HB1	2.18	0.43
27:BD:136:ILE:HD13	27:BD:173:VAL:HG21	1.93	0.43
27:BD:23:GLU:C	27:BD:23:GLU:CD	2.74	0.43
24:BA:2224:G:C4'	27:BD:262:ARG:HH22	2.30	0.43
27:BD:63:ARG:CG	27:BD:64:ILE:N	2.81	0.43
24:BA:2052:G:C8	28:BE:141:ILE:HD11	2.54	0.43
28:BE:155:LYS:H	28:BE:155:LYS:HG2	1.41	0.43
28:BE:119:ARG:HH12	28:BE:155:LYS:HD2	1.79	0.43
24:BA:2784:C:C4'	28:BE:41:LYS:HE2	2.47	0.43
28:BE:8:LYS:CD	28:BE:9:VAL:HG13	2.44	0.43
30:BG:128:ARG:NH2	30:BG:161:THR:O	2.47	0.43
30:BG:56:ALA:O	30:BG:60:LEU:CD2	2.60	0.43
30:BG:78:SER:HB2	30:BG:83:ARG:CD	2.32	0.43
31:BH:119:GLU:HB2	31:BH:140:LYS:NZ	2.33	0.43
31:BH:150:ALA:HA	31:BH:153:LYS:HD3	2.00	0.43
31:BH:87:LEU:HD11	31:BH:162:ILE:HD11	2.00	0.43
32:BK:5:LEU:C	32:BK:8:PRO:HD2	2.38	0.43
33:BL:95:LYS:HG2	33:BL:137:GLU:OE1	2.18	0.43
34:BM:117:PHE:HA	34:BM:120:LEU:HB3	2.00	0.43
34:BM:33:LEU:C	34:BM:35:ARG:HG3	2.35	0.43
34:BM:43:THR:O	34:BM:44:PRO:O	2.35	0.43
34:BM:69:GLN:HE21	34:BM:69:GLN:CA	2.31	0.43
34:BM:95:PRO:HG2	34:BM:96:GLU:H	1.83	0.43
35:BN:10:VAL:HG11	35:BN:14:THR:HB	2.00	0.43
35:BN:10:VAL:N	35:BN:17:ARG:O	2.51	0.43
37:BP:134:ARG:CD	37:BP:137:TYR:H	2.31	0.43
37:BP:80:GLU:CD	37:BP:80:GLU:N	2.71	0.43
37:BP:99:PRO:HG2	37:BP:101:ARG:HE	1.82	0.43
38:BQ:105:ARG:CG	38:BQ:106:GLY:N	2.81	0.43
38:BQ:13:HIS:NE2	38:BQ:15:SER:CB	2.81	0.43
38:BQ:76:VAL:CG1	38:BQ:77:ARG:HG2	2.48	0.43
38:BQ:83:ILE:CD1	38:BQ:86:ARG:HE	2.30	0.43
38:BQ:96:ARG:O	38:BQ:114:VAL:CG1	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:66:ALA:O	39:BR:69:VAL:N	2.51	0.43
40:BS:105:LEU:HG	40:BS:106:SER:H	1.78	0.43
40:BS:64:ARG:HH12	40:BS:78:LEU:N	2.16	0.43
41:BT:111:GLU:HG3	41:BT:112:ARG:N	2.33	0.43
41:BT:115:ALA:O	41:BT:117:GLN:N	2.52	0.43
41:BT:25:TRP:HE3	41:BT:26:GLY:O	2.01	0.43
41:BT:49:HIS:O	41:BT:52:ARG:CZ	2.66	0.43
41:BT:97:ASP:O	41:BT:101:ARG:NE	2.52	0.43
43:BV:69:LEU:CG	43:BV:109:GLU:HA	2.46	0.43
43:BV:3:ALA:HB1	43:BV:54:ALA:O	2.18	0.43
44:BW:34:ALA:O	44:BW:35:THR:C	2.56	0.43
46:BY:154:ASP:O	46:BY:155:LEU:C	2.56	0.43
46:BY:16:SER:CA	46:BY:19:ARG:HH11	2.30	0.43
46:BY:28:MET:HE3	46:BY:88:PHE:CD1	2.52	0.43
47:BZ:27:GLU:OE1	47:BZ:69:PHE:HD1	2.01	0.43
26:BC:64:LEU:HA	26:BC:65:PRO:HD2	1.69	0.43
1:AA:1170:A:C3'	1:AA:1170:A:C8	3.01	0.43
5:AF:157:ILE:HG21	5:AF:164:ARG:HH21	1.83	0.43
4:AE:131:PRO:O	4:AE:134:GLU:N	2.51	0.43
1:AA:160:A:N3	1:AA:344:A:N7	2.66	0.43
25:BB:22:U:H6	25:BB:22:U:OP2	2.01	0.43
19:AT:26:GLN:HG2	19:AT:37:LYS:CB	2.49	0.43
1:AA:1182:G:H4'	1:AA:1183:A:H5''	2.01	0.43
1:AA:1244:C:C2	1:AA:1245:A:C8	3.06	0.43
1:AA:1269:A:C2	1:AA:1312:G:N3	2.86	0.43
1:AA:1273:G:C8	1:AA:1274:G:C8	3.06	0.43
1:AA:1278:U:H5'	1:AA:1279:A:H5'	2.01	0.43
1:AA:1315:U:O2'	1:AA:1360:A:C4	2.63	0.43
1:AA:1477:C:C2	1:AA:1478:C:C6	3.06	0.43
1:AA:1528:U:C2	1:AA:1530:G:C8	3.07	0.43
1:AA:19:C:N3	1:AA:20:U:H5	2.16	0.43
1:AA:20:U:O4'	1:AA:572:A:C2	2.70	0.43
1:AA:230:G:N2	1:AA:231:G:C4	2.87	0.43
1:AA:329:A:N6	1:AA:332:G:C2	2.86	0.43
1:AA:588:G:H1'	1:AA:753:A:C2	2.53	0.43
1:AA:666:G:N2	1:AA:741:G:H1'	2.33	0.43
1:AA:686:U:O2	13:AN:42:TRP:CZ2	2.60	0.43
1:AA:686:U:O2'	1:AA:687:A:OP1	2.35	0.43
1:AA:689:C:N3	1:AA:690:G:N7	2.66	0.43
1:AA:750:G:N3	17:AR:23:GLY:O	2.51	0.43
1:AA:764:C:H5''	1:AA:765:G:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:918:A:C2	1:AA:919:A:C4	3.06	0.43
1:AA:954:G:H5''	15:AP:120:LYS:HD2	2.00	0.43
1:AA:956:U:O2'	1:AA:957:U:O5'	2.35	0.43
1:AA:978:A:H61	1:AA:1360:A:H61	1.65	0.43
2:AC:34:C:H3'	2:AC:35:A:H5''	1.94	0.43
2:AC:49:G:H2'	2:AC:50:U:O5'	2.18	0.43
3:AD:72:C:O2	3:AD:73:A:C8	2.71	0.43
4:AE:169:LYS:O	4:AE:170:GLU:C	2.56	0.43
4:AE:23:ARG:NH1	4:AE:24:TRP:N	2.58	0.43
4:AE:49:GLU:O	4:AE:52:GLU:HB3	2.17	0.43
4:AE:73:THR:O	4:AE:74:LYS:C	2.56	0.43
5:AF:52:LEU:HA	5:AF:70:VAL:CG2	2.42	0.43
5:AF:89:GLU:C	5:AF:91:LEU:N	2.67	0.43
6:AG:113:SER:CB	6:AG:116:GLN:H	2.31	0.43
6:AG:139:ARG:HG2	6:AG:139:ARG:O	2.18	0.43
6:AG:13:ARG:NH1	6:AG:36:ARG:CB	2.82	0.43
6:AG:78:LEU:HD23	6:AG:78:LEU:C	2.39	0.43
7:AH:127:ASN:OD1	7:AH:127:ASN:O	2.36	0.43
7:AH:65:ASN:CG	7:AH:65:ASN:O	2.56	0.43
8:AI:25:ILE:O	8:AI:26:ILE:C	2.56	0.43
9:AJ:136:LYS:O	9:AJ:139:GLU:OE1	2.35	0.43
9:AJ:87:VAL:HG13	9:AJ:152:ALA:CA	2.48	0.43
9:AJ:152:ALA:O	9:AJ:154:TYR:N	2.51	0.43
1:AA:932:C:H5''	9:AJ:3:ARG:CG	2.48	0.43
9:AJ:75:VAL:HG22	9:AJ:88:PRO:HA	1.97	0.43
11:AL:15:ALA:HB1	11:AL:77:ILE:CG1	2.49	0.43
11:AL:80:GLY:O	11:AL:83:ARG:HB3	2.18	0.43
11:AL:80:GLY:O	11:AL:83:ARG:N	2.51	0.43
11:AL:5:TYR:O	11:AL:87:GLN:HG3	2.18	0.43
12:AM:24:VAL:HG13	12:AM:34:VAL:HB	1.98	0.43
1:AA:1060:C:H4'	12:AM:52:GLY:N	2.33	0.43
1:AA:362:G:O5'	14:AO:34:ARG:NH2	2.51	0.43
17:AR:54:ARG:HH21	17:AR:58:MET:HE3	1.84	0.43
19:AT:7:THR:OG1	19:AT:57:VAL:O	2.36	0.43
19:AT:59:ILE:CG1	19:AT:71:PHE:HD2	2.31	0.43
48:B1:14:VAL:CG1	48:B1:15:GLU:N	2.77	0.43
49:B2:17:LYS:N	49:B2:20:LYS:HZ3	2.16	0.43
50:B3:27:THR:HG23	50:B3:28:LYS:H	1.82	0.43
50:B3:61:ARG:O	50:B3:65:ASP:OD1	2.37	0.43
24:BA:684:G:OP1	53:B6:16:HIS:CE1	2.72	0.43
53:B6:5:TRP:CE3	53:B6:5:TRP:CA	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:5:TRP:HE3	53:B6:5:TRP:HA	1.83	0.43
24:BA:1063:G:OP1	33:BL:79:ARG:NH1	2.52	0.43
24:BA:1121:C:N3	24:BA:1122:G:N7	2.67	0.43
24:BA:1140:C:O2'	24:BA:1143:A:C5	2.67	0.43
24:BA:1346:G:C2'	24:BA:1347:G:O5'	2.66	0.43
24:BA:1364:G:N9	24:BA:1366:A:OP1	2.51	0.43
24:BA:1371:G:H2'	24:BA:1372:U:OP2	2.18	0.43
24:BA:1401:G:H2'	24:BA:1402:C:C6	2.53	0.43
24:BA:1420:U:O2'	24:BA:1421:G:C8	2.64	0.43
24:BA:1476:C:C6	24:BA:1477:A:C8	3.06	0.43
24:BA:1539:G:C2'	24:BA:1540:G:O5'	2.66	0.43
24:BA:1690:A:C2	24:BA:1691:C:H1'	2.53	0.43
24:BA:1704:G:O6	24:BA:1705:G:C5	2.72	0.43
24:BA:1706:U:O2	24:BA:1706:U:C2'	2.66	0.43
24:BA:1746:G:C2'	24:BA:1747:G:O4'	2.67	0.43
24:BA:1776:G:N2	24:BA:1777:U:C4	2.86	0.43
24:BA:1779:U:H1'	24:BA:1783:A:N6	2.32	0.43
24:BA:1826:G:C2'	24:BA:1827:C:C5'	2.84	0.43
24:BA:1961:C:C3'	24:BA:1962:C:H5'	2.49	0.43
24:BA:2004:G:C8	24:BA:2005:A:N7	2.87	0.43
24:BA:201:C:C5	24:BA:202:U:C5	3.07	0.43
24:BA:2031:A:H61	24:BA:2498:C:C2'	2.31	0.43
24:BA:2083:G:N2	24:BA:2084:C:C2	2.86	0.43
24:BA:20:C:HO2'	24:BA:21:A:C5'	2.29	0.43
24:BA:2216:G:H2'	24:BA:2217:G:C5'	2.48	0.43
24:BA:2303:G:C6	24:BA:2304:G:C8	3.07	0.43
24:BA:2320:A:C1'	24:BA:2333:A:N6	2.72	0.43
24:BA:2353:G:C2	24:BA:2365:G:N2	2.86	0.43
24:BA:2407:G:N3	24:BA:2407:G:H2'	2.33	0.43
24:BA:2505:G:C2	24:BA:2576:G:C5	3.06	0.43
24:BA:2604:U:C2	24:BA:2605:U:C6	3.07	0.43
24:BA:2634:G:N3	24:BA:2635:C:C6	2.86	0.43
24:BA:2747:G:O2'	31:BH:67:LEU:HD13	2.18	0.43
24:BA:2752:C:C6	24:BA:2752:C:OP1	2.72	0.43
24:BA:2774:C:C2	24:BA:2775:A:C8	3.07	0.43
24:BA:2839:G:H4'	38:BQ:49:ASP:OD2	2.18	0.43
24:BA:2858:C:C5'	24:BA:2859:G:OP2	2.66	0.43
24:BA:2875:C:O2'	40:BS:4:GLY:HA3	2.18	0.43
24:BA:324:A:O2'	24:BA:325:G:H5'	2.18	0.43
24:BA:33:U:O2'	24:BA:34:C:C5	2.49	0.43
24:BA:373:U:H3	24:BA:400:G:H22	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:391:G:N9	24:BA:392:C:H5	2.16	0.43
24:BA:417:C:H2'	24:BA:418:G:C5'	2.49	0.43
24:BA:236:C:C4'	24:BA:431:U:H1'	2.46	0.43
24:BA:463:G:O2'	24:BA:464:U:C5	2.70	0.43
24:BA:46:C:H2'	24:BA:47:C:C6	2.54	0.43
24:BA:487:C:O2'	43:BV:52:GLU:HB3	2.18	0.43
24:BA:491:G:C2'	24:BA:492:A:C8	3.00	0.43
24:BA:562:U:C2'	24:BA:563:G:OP2	2.67	0.43
24:BA:632:A:C2'	24:BA:633:A:C8	2.64	0.43
24:BA:642:G:C5	24:BA:643:A:C2	3.06	0.43
24:BA:680:G:H2'	24:BA:681:G:H8	1.83	0.43
24:BA:823:G:C2	24:BA:824:A:C5	3.07	0.43
24:BA:853:G:O2'	24:BA:854:G:C5'	2.66	0.43
24:BA:872:A:N6	24:BA:873:G:O6	2.51	0.43
24:BA:918:A:C5'	24:BA:919:G:OP2	2.54	0.43
25:BB:51:G:O2'	25:BB:52:A:H5"	2.18	0.43
24:BA:2209:C:C1'	27:BD:150:LYS:CE	2.94	0.43
27:BD:146:GLU:HG3	27:BD:152:GLY:C	2.38	0.43
27:BD:46:GLN:OE1	27:BD:51:VAL:N	2.51	0.43
27:BD:94:LEU:HD13	27:BD:95:LEU:N	2.32	0.43
28:BE:15:PHE:C	28:BE:17:ASP:H	2.20	0.43
28:BE:98:PRO:CB	28:BE:173:VAL:O	2.66	0.43
28:BE:9:VAL:HG12	28:BE:192:ASN:ND2	2.32	0.43
29:BF:18:ARG:O	29:BF:19:GLU:CG	2.65	0.43
29:BF:38:ARG:O	29:BF:42:ALA:HB2	2.18	0.43
24:BA:674:G:C4'	29:BF:74:ARG:CZ	2.94	0.43
31:BH:9:ILE:HG23	31:BH:10:PRO:HD2	2.00	0.43
31:BH:66:GLY:HA2	31:BH:69:ARG:CD	2.48	0.43
31:BH:94:TYR:CD2	31:BH:95:ARG:N	2.86	0.43
31:BH:98:LEU:CD2	31:BH:123:PHE:HB2	2.48	0.43
32:BK:38:LEU:C	32:BK:38:LEU:CD1	2.87	0.43
33:BL:51:ALA:O	33:BL:77:LEU:HD23	2.18	0.43
34:BM:33:LEU:HD13	34:BM:34:LEU:CG	2.48	0.43
34:BM:67:LEU:N	34:BM:69:GLN:OE1	2.51	0.43
35:BN:47:ILE:CD1	35:BN:49:ARG:O	2.66	0.43
35:BN:99:PHE:CE2	35:BN:105:GLU:OE1	2.71	0.43
36:BO:77:ARG:CB	36:BO:115:LEU:HD22	2.47	0.43
36:BO:92:GLU:OE1	36:BO:126:VAL:HG22	2.17	0.43
39:BR:17:ARG:NE	39:BR:25:ARG:HH21	2.15	0.43
39:BR:78:LEU:C	39:BR:78:LEU:CD2	2.77	0.43
39:BR:93:LYS:HE2	39:BR:95:HIS:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:9:ARG:O	39:BR:10:ARG:C	2.57	0.43
40:BS:109:GLU:HB3	40:BS:114:LEU:HD23	1.99	0.43
40:BS:15:VAL:C	40:BS:16:ARG:O	2.56	0.43
40:BS:32:TYR:HD2	40:BS:88:ILE:HA	1.83	0.43
40:BS:35:LYS:HG2	40:BS:86:ILE:HG13	1.99	0.43
24:BA:1251:C:C5'	41:BT:10:ARG:HE	2.31	0.43
41:BT:12:ARG:O	41:BT:15:LYS:N	2.51	0.43
41:BT:79:PHE:CZ	41:BT:83:LEU:HD13	2.53	0.43
41:BT:89:GLU:C	41:BT:90:VAL:HG23	2.37	0.43
41:BT:98:LEU:O	41:BT:105:VAL:CG1	2.66	0.43
44:BW:21:PHE:CD2	44:BW:21:PHE:N	2.82	0.43
44:BW:27:THR:HG22	44:BW:80:ILE:HG21	1.96	0.43
45:BX:1:MET:H1	45:BX:33:LYS:NZ	2.15	0.43
45:BX:42:VAL:N	45:BX:61:ILE:HB	2.22	0.43
46:BY:121:HIS:HB3	46:BY:171:ILE:O	2.19	0.43
46:BY:171:ILE:CD1	46:BY:171:ILE:C	2.87	0.43
3:AD:24:G:C6	3:AD:25:C:C5	3.06	0.43
26:BC:103:ILE:HG21	26:BC:130:ILE:HG21	2.01	0.43
26:BC:149:ILE:HG12	26:BC:153:ILE:CD1	2.34	0.43
26:BC:10:LEU:CD1	26:BC:32:LEU:O	2.62	0.43
1:AA:1097:C:H5'	1:AA:1170:A:H4'	2.00	0.43
24:BA:2294:C:C2'	24:BA:2295:C:H5'	2.48	0.43
24:BA:2246:G:O2'	24:BA:2247:A:C5'	2.67	0.43
24:BA:2247:A:O2'	24:BA:2248:C:C5'	2.63	0.43
4:AE:127:ILE:HG22	4:AE:128:GLU:N	2.24	0.43
40:BS:41:ARG:NE	40:BS:41:ARG:H	2.16	0.43
1:AA:773:G:O6	1:AA:807:A:N6	2.51	0.43
14:AO:126:LYS:HD2	14:AO:126:LYS:H	1.83	0.43
1:AA:1062:U:C2	1:AA:1063:C:C4	3.07	0.43
1:AA:1065:U:C5	1:AA:1190:G:C1'	3.01	0.43
1:AA:1069:C:O2'	1:AA:1192:C:O2'	2.29	0.43
1:AA:1111:A:H8	1:AA:1111:A:O5'	2.01	0.43
1:AA:1207:G:C2	1:AA:1208:C:C5	3.06	0.43
1:AA:1210:C:H5''	1:AA:1214:C:H42	1.82	0.43
1:AA:1281:U:C6	1:AA:1281:U:C3'	3.02	0.43
1:AA:1253:G:H1	1:AA:1285:A:N6	2.08	0.43
1:AA:1301:U:O4	1:AA:1303:C:C2	2.70	0.43
1:AA:1389:C:C2'	1:AA:1390:U:C5'	2.95	0.43
1:AA:1486:G:C6	1:AA:1487:G:C6	3.06	0.43
1:AA:1520:G:C4	1:AA:1521:G:C8	3.07	0.43
1:AA:20:U:C5	1:AA:916:G:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:245:C:N3	1:AA:284:G:N1	2.67	0.43
1:AA:35:G:C6	1:AA:36:C:C4	3.07	0.43
1:AA:37:U:OP2	14:AO:123:LYS:CD	2.63	0.43
1:AA:420:U:H1'	1:AA:424:G:C2	2.53	0.43
1:AA:510:A:H1'	1:AA:543:C:O4'	2.18	0.43
1:AA:588:G:N7	1:AA:753:A:C2'	2.82	0.43
1:AA:74:C:N3	1:AA:75:C:C5	2.86	0.43
1:AA:869:G:O2'	1:AA:872:A:N7	2.46	0.43
1:AA:907:A:N3	1:AA:907:A:H2'	2.34	0.43
1:AA:89:U:C2	1:AA:90:C:C6	3.07	0.43
1:AA:90:C:C2	1:AA:91:C:C6	3.07	0.43
1:AA:962:C:N4	1:AA:963:G:O6	2.51	0.43
1:AA:994:A:N7	1:AA:1216:G:C4'	2.69	0.43
2:AC:41:C:H2'	2:AC:42:G:O4'	2.18	0.43
2:AC:57:A:H3'	2:AC:58:A:H5''	2.00	0.43
2:AC:74:C:H3'	2:AC:75:C:C5'	2.47	0.43
3:AD:37:A:H2'	3:AD:38:A:O4'	2.18	0.43
3:AD:5:A:C2'	3:AD:6:G:O5'	2.66	0.43
4:AE:16:HIS:O	4:AE:17:PHE:O	2.37	0.43
5:AF:114:PRO:HA	5:AF:185:GLY:HA3	2.00	0.43
7:AH:133:TYR:O	7:AH:134:ALA:C	2.57	0.43
8:AI:14:LEU:CD1	8:AI:15:ASP:O	2.67	0.43
10:AK:104:ARG:CD	10:AK:107:LEU:HD11	2.48	0.43
10:AK:112:LEU:CD1	10:AK:133:LEU:CD2	2.97	0.43
11:AL:50:LEU:O	11:AL:51:ARG:C	2.56	0.43
12:AM:45:ARG:HG2	12:AM:66:ARG:HA	1.99	0.43
12:AM:34:VAL:HG22	12:AM:74:ILE:HD11	1.99	0.43
1:AA:718:G:C4	13:AN:116:HIS:CE1	3.06	0.43
13:AN:63:LEU:HA	13:AN:66:LEU:HG	2.01	0.43
14:AO:113:ARG:O	14:AO:114:LYS:CG	2.66	0.43
14:AO:11:VAL:CG1	14:AO:11:VAL:O	2.66	0.43
15:AP:36:LYS:CG	15:AP:59:TYR:CE1	3.01	0.43
15:AP:44:ARG:HB3	15:AP:47:ASP:OD2	2.18	0.43
15:AP:58:GLU:H	15:AP:58:GLU:HG3	1.59	0.43
15:AP:9:ILE:N	15:AP:10:PRO:CD	2.81	0.43
17:AR:9:GLN:O	17:AR:10:LYS:C	2.57	0.43
18:AS:35:LYS:NZ	18:AS:37:GLY:CA	2.81	0.43
19:AT:3:LYS:C	19:AT:4:LYS:O	2.57	0.43
1:AA:189:U:O2	19:AT:63:ARG:CZ	2.66	0.43
19:AT:67:LYS:HB2	19:AT:70:ARG:HH22	1.83	0.43
20:AU:81:PHE:O	20:AU:82:THR:CG2	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:2:PRO:O	21:AV:3:ARG:O	2.36	0.43
22:AW:21:LYS:HB3	22:AW:25:ARG:HH22	1.83	0.43
22:AW:66:ALA:HB1	22:AW:72:LEU:H	1.84	0.43
22:AW:85:MET:HA	22:AW:88:VAL:HG23	2.00	0.43
49:B2:48:GLU:HG3	49:B2:49:LYS:N	2.33	0.43
49:B2:3:ARG:O	49:B2:59:VAL:HB	2.18	0.43
51:B4:11:THR:O	51:B4:14:ALA:CB	2.66	0.43
51:B4:13:LYS:O	51:B4:15:ARG:N	2.51	0.43
51:B4:34:PRO:HG3	51:B4:52:TYR:CE1	2.54	0.43
52:B5:22:ALA:HB3	52:B5:39:TYR:CD2	2.53	0.43
53:B6:46:VAL:HG12	53:B6:47:ARG:N	2.34	0.43
24:BA:1027:A:N1	24:BA:1126:A:C4	2.86	0.43
24:BA:1077:A:C2	33:BL:133:SER:HA	2.52	0.43
24:BA:1090:U:C5	24:BA:1103:A:C2	3.07	0.43
24:BA:1091:G:N1	24:BA:1101:U:N3	2.66	0.43
24:BA:1225:C:N3	24:BA:1226:G:C2	2.87	0.43
24:BA:125:G:C3'	53:B6:47:ARG:HH12	2.32	0.43
24:BA:1293:C:N3	24:BA:1294:U:C5	2.87	0.43
24:BA:1335:U:H2'	24:BA:1336:A:C8	2.54	0.43
24:BA:1449(A):G:H2'	24:BA:1450:C:O5'	2.18	0.43
24:BA:1448:G:C4'	24:BA:1543:A:H61	2.26	0.43
24:BA:1626:G:C4'	24:BA:1627:G:OP1	2.66	0.43
24:BA:1632:A:C4	24:BA:1633:G:C2	3.07	0.43
24:BA:1772:G:C2	24:BA:1980:G:N2	2.86	0.43
24:BA:1790:C:OP2	27:BD:221:VAL:O	2.35	0.43
24:BA:1815:A:H1'	24:BA:1817:G:C8	2.53	0.43
24:BA:1858:G:C2	24:BA:1883:G:C2	3.06	0.43
24:BA:190:A:C6	24:BA:191:A:N6	2.86	0.43
24:BA:1982:C:N3	24:BA:1983:C:C5	2.86	0.43
24:BA:1131:G:N7	24:BA:2025:C:H4'	2.34	0.43
24:BA:2052:G:H1'	28:BE:149:ARG:O	2.15	0.43
24:BA:2075:U:O2	24:BA:2075:U:C2'	2.66	0.43
24:BA:184:C:H4'	24:BA:217:G:C2	2.53	0.43
24:BA:2092:U:C5	24:BA:2227:A:C6	2.90	0.43
24:BA:2230:G:N1	24:BA:2231:C:C4	2.87	0.43
24:BA:2230:G:N3	24:BA:2231:C:C6	2.87	0.43
24:BA:2256:G:C2	24:BA:2275:C:N4	2.87	0.43
24:BA:2297:C:C4	24:BA:2333:A:N6	2.87	0.43
24:BA:2347:C:OP2	52:B5:24:GLU:OE2	2.36	0.43
24:BA:2396:G:O2'	24:BA:2397:G:H5'	2.18	0.43
24:BA:2405:G:O2'	24:BA:2406:U:H5''	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2416:C:C5'	36:BO:59:LEU:O	2.67	0.43
24:BA:2472:G:H1	24:BA:2477:C:P	2.42	0.43
24:BA:2481:G:H8	24:BA:2481:G:H5''	1.82	0.43
24:BA:251:A:H8	24:BA:251:A:OP2	2.02	0.43
24:BA:2519:U:N1	24:BA:2542:A:C6	2.87	0.43
24:BA:2569:G:N1	24:BA:2570:G:N7	2.66	0.43
24:BA:2569:G:C4	24:BA:2570:G:C8	3.07	0.43
24:BA:2636:U:H4'	28:BE:79:ARG:CZ	2.48	0.43
24:BA:2646:C:O2'	24:BA:2647:U:C5'	2.62	0.43
24:BA:2675:A:OP1	35:BN:32:TYR:CE2	2.65	0.43
24:BA:2695:C:H2'	24:BA:2696:U:H5	1.77	0.43
24:BA:2816:C:H1'	24:BA:2831:G:H21	1.82	0.43
24:BA:2848:G:N9	40:BS:99:LEU:HD21	2.33	0.43
24:BA:2867:G:O3'	24:BA:2868:A:H8	2.02	0.43
24:BA:285:C:C4	24:BA:286:C:N4	2.86	0.43
24:BA:339:U:C6	24:BA:340:A:C8	3.06	0.43
24:BA:37:C:H5'	24:BA:451:C:O4'	2.18	0.43
24:BA:558:G:C3'	24:BA:559:G:H5''	2.48	0.43
24:BA:573:G:C3'	24:BA:574:C:H5''	2.49	0.43
24:BA:588:U:C2'	24:BA:589:C:O5'	2.66	0.43
24:BA:613:U:O5'	24:BA:615:G:H1'	2.18	0.43
24:BA:675:A:C5	24:BA:676:A:N1	2.86	0.43
24:BA:778:G:C6	24:BA:779:U:C2	3.07	0.43
24:BA:77:C:C2	24:BA:78:A:C8	3.07	0.43
24:BA:782:A:C5'	24:BA:783:A:OP1	2.60	0.43
24:BA:880:G:N3	24:BA:881:G:H1'	2.33	0.43
25:BB:33:G:N2	25:BB:50:G:H1'	2.33	0.43
25:BB:52:A:H2'	25:BB:53:A:C4'	2.49	0.43
25:BB:88:C:O5'	25:BB:88:C:C6	2.72	0.43
27:BD:126:GLN:O	27:BD:127:VAL:C	2.56	0.43
27:BD:155:LEU:CB	27:BD:157:ARG:NH2	2.82	0.43
27:BD:90:ALA:HB2	27:BD:159:ALA:HA	2.01	0.43
27:BD:160:GLY:O	27:BD:162:SER:OG	2.36	0.43
27:BD:242:ARG:O	27:BD:243:GLY:O	2.37	0.43
27:BD:242:ARG:O	27:BD:244:ARG:HG2	2.18	0.43
27:BD:29:PRO:CG	27:BD:82:ILE:HG22	2.48	0.43
27:BD:31:LYS:HD3	27:BD:82:ILE:O	2.19	0.43
27:BD:91:ARG:NH1	27:BD:198:ASN:ND2	2.67	0.43
24:BA:2053:G:O4'	28:BE:149:ARG:HA	2.19	0.43
28:BE:43:GLY:O	28:BE:81:ILE:HG12	2.17	0.43
28:BE:66:HIS:CE1	28:BE:67:PHE:HA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:81:ILE:C	28:BE:83:ASP:OD1	2.56	0.43
29:BF:118:ALA:HA	29:BF:122:LYS:HB2	1.99	0.43
29:BF:139:PHE:O	29:BF:142:TRP:HB3	2.18	0.43
29:BF:24:LEU:N	29:BF:25:PRO:CD	2.80	0.43
30:BG:107:LEU:HD13	30:BG:107:LEU:C	2.38	0.43
30:BG:14:GLU:OE1	30:BG:15:VAL:N	2.51	0.43
30:BG:120:LEU:CD2	30:BG:181:ARG:CB	2.83	0.43
30:BG:30:GLU:O	30:BG:32:PRO:HA	2.17	0.43
30:BG:36:LYS:C	30:BG:37:VAL:CG2	2.86	0.43
30:BG:78:SER:HB3	30:BG:82:LEU:CB	2.49	0.43
30:BG:79:ASN:OD1	30:BG:82:LEU:CD1	2.62	0.43
30:BG:43:LEU:HD21	30:BG:88:ILE:HB	2.00	0.43
31:BH:23:ARG:HH21	31:BH:36:PRO:CA	2.31	0.43
31:BH:53:GLU:CA	31:BH:53:GLU:OE1	2.65	0.43
31:BH:85:LYS:NZ	31:BH:142:GLY:HA2	2.33	0.43
32:BK:24:GLY:O	32:BK:29:TYR:CD1	2.72	0.43
32:BK:45:LYS:HB2	32:BK:45:LYS:HE3	1.84	0.43
33:BL:23:VAL:C	33:BL:34:ILE:HG23	2.38	0.43
24:BA:1098:A:O2'	33:BL:30:HIS:CE1	2.72	0.43
34:BM:74:ARG:HB2	34:BM:82:LEU:HA	2.00	0.43
35:BN:2:ILE:HB	35:BN:32:TYR:HA	1.98	0.43
35:BN:92:GLU:HA	35:BN:93:PRO:HD3	1.82	0.43
36:BO:123:LEU:CB	36:BO:138:LEU:HA	2.48	0.43
29:BF:34:TRP:CH2	36:BO:6:LEU:N	2.72	0.43
38:BQ:116:LEU:HD22	38:BQ:118:GLU:OE1	2.18	0.43
38:BQ:5:LYS:HE2	38:BQ:5:LYS:CA	2.48	0.43
39:BR:29:PHE:CD1	39:BR:30:ARG:N	2.84	0.43
39:BR:89:ARG:HG2	39:BR:90:GLY:N	2.09	0.43
40:BS:21:GLU:C	40:BS:23:ARG:N	2.71	0.43
40:BS:28:VAL:HB	40:BS:30:VAL:CG1	2.47	0.43
40:BS:4:GLY:O	40:BS:5:ALA:O	2.36	0.43
24:BA:1154:G:P	41:BT:62:ILE:HD11	2.56	0.43
42:BU:9:GLY:O	42:BU:11:GLN:N	2.51	0.43
43:BV:76:VAL:CG2	43:BV:102:HIS:O	2.58	0.43
43:BV:64:MET:SD	43:BV:65:LEU:HD22	2.59	0.43
46:BY:34:ASN:OD1	46:BY:35:ARG:N	2.51	0.43
47:BZ:17:GLN:CG	47:BZ:18:ALA:N	2.80	0.43
24:BA:856:C:O2'	47:BZ:69:PHE:CZ	2.72	0.43
24:BA:2175:C:C2'	24:BA:2176:A:O5'	2.67	0.43
26:BC:177:LYS:O	26:BC:180:PHE:CB	2.67	0.43
26:BC:47:LEU:HD21	26:BC:49:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1097:C:C2	1:AA:1098:C:C5	3.06	0.43
1:AA:1452:C:H4'	1:AA:1453:G:N2	2.33	0.43
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.18	0.43
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.83	0.43
1:AA:1251:A:H4'	1:AA:1370:G:C5'	2.47	0.43
1:AA:1323:G:C5'	1:AA:1362(A):C:N3	2.81	0.43
1:AA:1251:A:H4'	1:AA:1370:G:H5'	2.01	0.43
1:AA:1396:A:O2'	1:AA:1397:C:P	2.76	0.43
1:AA:1423:G:C5	1:AA:1424:C:C5	3.06	0.43
1:AA:1504:G:O4'	1:AA:1505:G:C6	2.71	0.43
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.53	0.43
1:AA:1520:G:O2'	1:AA:1521:G:C5'	2.66	0.43
1:AA:265:G:C4	1:AA:267:C:C6	3.06	0.43
1:AA:296:U:O2'	1:AA:556:C:H1'	2.19	0.43
1:AA:320:C:H2'	1:AA:321:A:O4'	2.18	0.43
1:AA:334:C:C2'	1:AA:335:C:O5'	2.66	0.43
1:AA:369:C:N3	1:AA:393:A:C2	2.86	0.43
1:AA:517:G:O2'	1:AA:530:G:C4'	2.63	0.43
1:AA:51:A:N1	1:AA:353:A:N1	2.66	0.43
1:AA:536:C:C6	1:AA:536:C:O5'	2.71	0.43
1:AA:566:G:H8	1:AA:566:G:O5'	2.01	0.43
1:AA:631:G:O2'	1:AA:632:A:C8	2.59	0.43
1:AA:657:G:C2'	1:AA:658:G:H5'	2.49	0.43
1:AA:687:A:O2'	1:AA:688:G:O5'	2.36	0.43
1:AA:82:U:C2	1:AA:85:U:OP2	2.71	0.43
1:AA:876:G:H1'	10:AK:11:THR:HG21	2.01	0.43
1:AA:901:A:N3	1:AA:902:G:C1'	2.82	0.43
1:AA:943:U:H2'	1:AA:944:G:H8	1.84	0.43
1:AA:959:A:C3'	1:AA:960:U:H5''	2.37	0.43
1:AA:97:U:C2	1:AA:99:C:C5	3.07	0.43
2:AC:20:U:H2'	2:AC:20:U:O2	2.17	0.43
2:AC:36:U:C2'	2:AC:36:U:O2	2.66	0.43
2:AC:44:A:C2'	2:AC:45:G:H5'	2.48	0.43
4:AE:9:GLU:CB	4:AE:217:ARG:NH2	2.76	0.43
1:AA:829:G:C1'	4:AE:26:PRO:HG2	2.49	0.43
4:AE:58:ILE:O	4:AE:61:LEU:N	2.50	0.43
5:AF:153:VAL:HG23	5:AF:166:GLU:CB	2.44	0.43
5:AF:33:LEU:HD21	16:AQ:52:GLN:O	2.18	0.43
5:AF:67:THR:CG2	5:AF:104:GLN:CG	2.96	0.43
5:AF:83:ARG:HG3	5:AF:87:LEU:HD21	2.01	0.43
6:AG:149:ALA:O	6:AG:150:GLU:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:185:PHE:HD2	6:AG:186:LEU:H	1.66	0.43
6:AG:205:GLU:OE2	7:AH:100:VAL:HB	2.19	0.43
7:AH:106:PRO:HB3	7:AH:120:THR:HG21	1.99	0.43
7:AH:84:PHE:HB2	7:AH:134:ALA:HA	2.00	0.43
7:AH:148:VAL:O	7:AH:149:GLU:C	2.56	0.43
1:AA:671:G:P	8:AI:77:ARG:NH2	2.92	0.43
9:AJ:123:GLU:O	9:AJ:124:LEU:C	2.57	0.43
9:AJ:50:ILE:O	9:AJ:54:THR:HG23	2.19	0.43
9:AJ:80:VAL:O	9:AJ:82:GLY:N	2.47	0.43
10:AK:122:ARG:N	10:AK:122:ARG:HD2	2.33	0.43
10:AK:67:PRO:O	10:AK:68:ARG:C	2.54	0.43
12:AM:27:ALA:CB	12:AM:85:LEU:HD11	2.48	0.43
12:AM:47:PHE:CE1	12:AM:64:GLU:HA	2.54	0.43
13:AN:91:ARG:HG2	13:AN:95:ILE:CD1	2.49	0.43
14:AO:30:ALA:HB1	14:AO:31:PRO:CD	2.49	0.43
14:AO:33:ARG:HG3	14:AO:61:THR:OG1	2.19	0.43
15:AP:103:THR:O	15:AP:104:ARG:O	2.37	0.43
1:AA:970:C:N4	15:AP:126:LYS:HZ2	2.15	0.43
15:AP:55:ARG:HH21	15:AP:56:LEU:CD2	2.12	0.43
16:AQ:23:ARG:HD3	16:AQ:30:ALA:CB	2.46	0.43
17:AR:71:GLN:HG3	17:AR:75:PRO:CB	2.27	0.43
18:AS:48:TRP:H	18:AS:48:TRP:HD1	1.66	0.43
19:AT:62:SER:OG	19:AT:72:ARG:CG	2.59	0.43
1:AA:189:U:C2	19:AT:63:ARG:CZ	3.02	0.43
19:AT:94:ASN:HB3	19:AT:104:LYS:CB	2.49	0.43
1:AA:719:C:O2	20:AU:50:ILE:HG13	2.19	0.43
20:AU:87:ARG:HG2	20:AU:87:ARG:HH11	1.83	0.43
21:AV:58:VAL:HG23	21:AV:60:VAL:CG2	2.46	0.43
21:AV:15:LEU:HD22	21:AV:71:LEU:HD11	2.01	0.43
22:AW:48:LYS:N	22:AW:48:LYS:HD2	2.34	0.43
22:AW:55:ILE:O	22:AW:57:ARG:N	2.52	0.43
22:AW:67:ALA:O	22:AW:68:LYS:C	2.56	0.43
48:B1:51:GLN:O	48:B1:54:ARG:HG3	2.19	0.43
49:B2:4:LEU:O	49:B2:37:LEU:CA	2.66	0.43
50:B3:41:PRO:HA	50:B3:58:ARG:CZ	2.49	0.43
50:B3:10:VAL:HG11	50:B3:41:PRO:HD3	2.01	0.43
50:B3:56:VAL:CG1	50:B3:57:GLU:N	2.50	0.43
51:B4:56:LYS:C	51:B4:57:VAL:HG13	2.39	0.43
52:B5:16:CYS:CB	52:B5:49:HIS:O	2.66	0.43
53:B6:19:ARG:O	53:B6:23:ARG:HG3	2.19	0.43
54:B7:5:LYS:NZ	54:B7:64:TYR:CD2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1005:C:O4'	24:BA:1012:U:O2	2.37	0.43
24:BA:1079:C:O2'	24:BA:1080:C:H5'	2.19	0.43
24:BA:1134:G:H3'	24:BA:1136:G:OP2	2.18	0.43
24:BA:1019:U:O2	24:BA:1144:G:N2	2.52	0.43
24:BA:1148:A:C6	24:BA:1149:G:C6	3.07	0.43
24:BA:1305:C:H2'	24:BA:1306:C:C6	2.53	0.43
24:BA:135:G:O6	24:BA:136:G:C6	2.72	0.43
24:BA:1380:G:C2	24:BA:1381:G:C8	3.06	0.43
24:BA:1535:U:C2	24:BA:1536:A:H1'	2.54	0.43
24:BA:1545(A):A:OP2	24:BA:1546:C:H5	1.96	0.43
24:BA:1570:A:C6	24:BA:1571:A:N7	2.87	0.43
24:BA:1607:C:O2'	24:BA:1608:A:OP2	2.21	0.43
24:BA:1636:C:O2'	24:BA:1760:A:C2'	2.67	0.43
24:BA:1675:C:O2	24:BA:1676:A:N9	2.52	0.43
24:BA:1689:A:C2	24:BA:1700:A:C2	3.06	0.43
24:BA:1743:G:O6	24:BA:1746:G:C6	2.71	0.43
24:BA:1778:U:H2'	24:BA:1779:U:N1	2.34	0.43
24:BA:1820:U:H2'	27:BD:202:LYS:HZ2	1.77	0.43
24:BA:1862:G:C4	24:BA:1863:G:N7	2.86	0.43
24:BA:186:G:C2	24:BA:211:A:C2	3.07	0.43
24:BA:578:A:C2	24:BA:2018:G:H1'	2.54	0.43
24:BA:2091:U:H3'	24:BA:2092:U:C5'	2.48	0.43
24:BA:210:C:OP1	53:B6:29:LYS:CE	2.62	0.43
24:BA:2226:C:C4	24:BA:2227:A:C2	3.07	0.43
24:BA:2258:C:C4	24:BA:2426:A:O4'	2.72	0.43
24:BA:2270:G:C6	24:BA:2271:G:C2	3.06	0.43
24:BA:2298:A:N3	24:BA:2299:G:C1'	2.82	0.43
24:BA:2437:U:H5'	24:BA:2598:A:C2	2.54	0.43
24:BA:2474:C:C2'	24:BA:2475:C:O5'	2.66	0.43
24:BA:2479:G:C2'	24:BA:2480:C:O5'	2.67	0.43
24:BA:2492:U:HO2'	24:BA:2493:U:P	2.39	0.43
24:BA:2577:A:C3'	24:BA:2578:G:H5'	2.48	0.43
24:BA:2655:G:O2'	24:BA:2656:U:C5	2.66	0.43
24:BA:2692:C:O2	24:BA:2847:U:O2'	2.32	0.43
24:BA:2736:G:N2	24:BA:2769:C:C1'	2.80	0.43
24:BA:2856:C:C2'	24:BA:2857:G:C5'	2.93	0.43
24:BA:2862:G:C5	24:BA:2863:C:C5	3.06	0.43
24:BA:2893:G:C2'	24:BA:2894:G:OP2	2.65	0.43
24:BA:395:U:H2'	24:BA:396:G:C8	2.53	0.43
24:BA:452:G:C5'	24:BA:453:C:OP2	2.64	0.43
24:BA:494:G:N1	24:BA:495:G:N7	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:598:G:N3	24:BA:599:G:H1'	2.33	0.43
24:BA:598:G:H2'	24:BA:599:G:O5'	2.19	0.43
24:BA:637:A:C2	24:BA:651:G:C5'	3.01	0.43
24:BA:921:G:C2	24:BA:922:U:H1'	2.54	0.43
25:BB:112:G:N2	25:BB:113:C:C2	2.86	0.43
25:BB:63:G:C4	25:BB:64:C:C5	3.07	0.43
25:BB:82:G:N3	25:BB:83:G:N7	2.67	0.43
25:BB:77:U:H5	25:BB:98:G:H21	1.66	0.43
27:BD:101:GLU:CG	27:BD:102:LYS:N	2.82	0.43
27:BD:130:ALA:O	27:BD:131:LEU:CD1	2.62	0.43
27:BD:136:ILE:C	27:BD:138:VAL:H	2.20	0.43
27:BD:146:GLU:OE1	27:BD:149:PRO:CA	2.55	0.43
27:BD:177:LEU:CD1	27:BD:181:GLU:H	2.31	0.43
27:BD:186:HIS:O	27:BD:188:GLU:OE2	2.36	0.43
27:BD:263:ARG:O	27:BD:264:LYS:CD	2.66	0.43
27:BD:40:THR:HG21	27:BD:43:ARG:NE	2.34	0.43
28:BE:150:VAL:O	28:BE:151:TYR:O	2.36	0.43
28:BE:185:LYS:C	28:BE:185:LYS:CD	2.87	0.43
28:BE:190:GLY:O	28:BE:191:PRO:C	2.56	0.43
29:BF:31:HIS:CG	36:BO:14:LYS:NZ	2.71	0.43
30:BG:152:LEU:HD23	30:BG:152:LEU:N	2.34	0.43
30:BG:32:PRO:HG3	30:BG:163:ALA:CB	2.48	0.43
30:BG:37:VAL:HG13	30:BG:159:VAL:CG1	2.41	0.43
31:BH:33:LEU:HD23	31:BH:34:GLU:C	2.38	0.43
34:BM:120:LEU:C	34:BM:121:LYS:HG3	2.39	0.43
34:BM:35:ARG:CD	34:BM:48:MET:SD	3.06	0.43
34:BM:61:ARG:O	34:BM:62:VAL:O	2.36	0.43
34:BM:74:ARG:HG3	34:BM:76:SER:OG	2.17	0.43
24:BA:1665:A:H4'	35:BN:1:MET:N	2.32	0.43
35:BN:3:GLN:OE1	35:BN:33:ALA:CB	2.66	0.43
35:BN:22:ILE:HG13	35:BN:40:VAL:HG13	2.01	0.43
35:BN:64:ARG:NH2	35:BN:65:THR:C	2.72	0.43
35:BN:79:PHE:CD1	40:BS:73:GLU:CD	2.92	0.43
36:BO:128:HIS:H	36:BO:130:PHE:HE2	1.66	0.43
36:BO:21:ARG:HG2	36:BO:21:ARG:H	1.48	0.43
37:BP:133:ARG:NH1	37:BP:135:ASP:OD2	2.51	0.43
37:BP:40:ALA:HB1	37:BP:41:TRP:CE3	2.53	0.43
38:BQ:55:ALA:HB1	38:BQ:79:LEU:HG	2.00	0.43
38:BQ:72:ASP:OD2	38:BQ:74:LYS:HB2	2.19	0.43
39:BR:62:LYS:O	39:BR:63:THR:C	2.53	0.43
39:BR:76:LYS:HZ2	39:BR:77:ALA:HB2	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:11:ARG:HG2	41:BT:12:ARG:CG	2.48	0.43
41:BT:33:ARG:C	41:BT:35:ALA:H	2.22	0.43
41:BT:34:LYS:HE3	41:BT:37:GLU:OE2	2.18	0.43
41:BT:44:ASN:HA	41:BT:47:TYR:CG	2.54	0.43
41:BT:47:TYR:O	41:BT:51:LYS:CG	2.64	0.43
42:BU:82:ARG:HA	42:BU:82:ARG:HE	1.84	0.43
43:BV:23:LEU:HD21	51:B4:26:THR:CA	2.48	0.43
43:BV:20:VAL:HG22	43:BV:24:ILE:HD11	2.00	0.43
43:BV:25:ARG:NH2	43:BV:74:ALA:N	2.38	0.43
45:BX:13:VAL:HG13	45:BX:70:SER:HG	1.83	0.43
45:BX:14:LEU:HD23	45:BX:17:SER:CB	2.48	0.43
45:BX:1:MET:HG2	45:BX:33:LYS:CD	2.44	0.43
45:BX:35:TYR:OH	45:BX:67:LEU:HD12	2.19	0.43
24:BA:483:A:C1'	45:BX:45:VAL:O	2.67	0.43
45:BX:76:CYS:CB	45:BX:100:ALA:CB	2.94	0.43
46:BY:122:ARG:H	46:BY:171:ILE:HD12	1.83	0.43
46:BY:174:VAL:CG2	46:BY:174:VAL:O	2.66	0.43
46:BY:20:ARG:O	46:BY:21:ALA:C	2.57	0.43
46:BY:26:GLY:O	46:BY:36:LYS:HG2	2.19	0.43
46:BY:44:PHE:HB3	46:BY:48:PHE:CE1	2.54	0.43
32:BK:127:VAL:HG13	32:BK:140:LEU:O	2.17	0.43
32:BK:77:LEU:HG	32:BK:142:VAL:HA	2.00	0.43
32:BK:96:ASP:CA	32:BK:99:GLU:OE2	2.66	0.43
3:AD:48:C:C4	3:AD:59:U:C2	3.07	0.43
26:BC:100:ILE:CG1	26:BC:123:VAL:HG13	2.49	0.43
26:BC:19:ILE:HG23	26:BC:223:ARG:CB	2.49	0.43
28:BE:127:ASP:CG	28:BE:135:HIS:H	2.17	0.43
1:AA:1002:G:N1	1:AA:1003:G:C6	2.86	0.43
1:AA:1164:G:N1	1:AA:1165:C:C2	2.86	0.43
1:AA:1169:A:C6	1:AA:1170:A:N1	2.86	0.43
24:BA:2294:C:H2'	24:BA:2295:C:O4'	2.19	0.43
1:AA:210:U:H4'	1:AA:216:G:OP1	2.14	0.43
34:BM:140:VAL:HG12	34:BM:140:VAL:OXT	2.18	0.43
25:BB:0:A:H3'	25:BB:0:A:N3	2.34	0.43
1:AA:1067:A:C4'	1:AA:1068:G:O5'	2.67	0.43
1:AA:110:C:O2'	1:AA:111:G:H5'	2.18	0.43
1:AA:1200:C:H5''	1:AA:1202:G:OP1	2.19	0.43
1:AA:1209:C:H2'	1:AA:1210:C:C5'	2.45	0.43
1:AA:1300:G:C2'	1:AA:1301:U:OP2	2.66	0.43
1:AA:1305:G:C5'	23:AX:4:GLY:CA	2.97	0.43
1:AA:1321:C:N3	21:AV:37:ARG:NH2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1419:G:O2'	1:AA:1420:C:O4'	2.33	0.43
1:AA:1437:C:H2'	1:AA:1438:G:C8	2.48	0.43
1:AA:1494:G:C2	1:AA:1495:U:C4	3.07	0.43
1:AA:194:C:O2'	22:AW:68:LYS:NZ	2.40	0.43
1:AA:130:A:C2	1:AA:263:A:N3	2.82	0.43
1:AA:285:G:C4	1:AA:286:G:C8	3.05	0.43
1:AA:31:G:O6	1:AA:306:G:H1'	2.19	0.43
1:AA:363:A:N3	1:AA:363:A:H2'	2.33	0.43
1:AA:410:G:N2	1:AA:429:U:N3	2.65	0.43
1:AA:506:G:C6	1:AA:507:C:C4	3.06	0.43
1:AA:529:G:C3'	1:AA:529:G:C8	3.01	0.43
1:AA:55:A:C2'	1:AA:56:U:C5'	2.94	0.43
1:AA:590:C:OP1	10:AK:29:SER:HA	2.18	0.43
1:AA:640:A:H2'	1:AA:641:U:O4'	2.19	0.43
1:AA:643:C:H2'	1:AA:644:G:C5'	2.48	0.43
1:AA:716:A:C2'	1:AA:717:C:C5'	2.97	0.43
1:AA:721:G:O2'	1:AA:722:A:C2	2.70	0.43
1:AA:767:A:O2'	1:AA:768:A:H5'	2.18	0.43
1:AA:873:A:H5'	1:AA:874:G:OP2	2.18	0.43
1:AA:988:G:H2'	1:AA:989:C:O4'	2.18	0.43
2:AC:19:G:O3'	2:AC:20:U:C4	2.71	0.43
2:AC:23:C:N3	2:AC:24:U:C4	2.86	0.43
3:AD:1:G:H2'	3:AD:2:C:H6	1.84	0.43
4:AE:233:SER:HB3	4:AE:234:PRO:CD	2.43	0.43
4:AE:76:GLN:O	4:AE:77:ALA:HB3	2.19	0.43
4:AE:84:GLU:HB3	4:AE:215:LEU:HD12	1.99	0.43
4:AE:90:MET:SD	4:AE:91:PRO:HD2	2.59	0.43
1:AA:1057:G:C5'	5:AF:196:LEU:HA	2.44	0.43
5:AF:24:ALA:CB	5:AF:32:LEU:HD11	2.47	0.43
5:AF:94:LEU:HD23	5:AF:95:THR:HG1	1.83	0.43
7:AH:43:LEU:CD2	7:AH:44:GLY:N	2.68	0.43
8:AI:2:ARG:CG	8:AI:69:GLU:HG2	2.45	0.43
9:AJ:140:ASP:CA	9:AJ:143:ARG:NH1	2.74	0.43
10:AK:120:THR:N	10:AK:123:GLU:OE1	2.41	0.43
10:AK:27:PRO:O	10:AK:32:LYS:CD	2.66	0.43
10:AK:68:ARG:NE	10:AK:74:PRO:HB3	2.34	0.43
11:AL:49:PRO:CG	11:AL:81:ILE:HB	2.49	0.43
1:AA:1188:A:C5'	12:AM:61:GLU:OE2	2.55	0.43
12:AM:98:ILE:CG2	12:AM:99:LYS:N	2.81	0.43
13:AN:27:ASN:HA	13:AN:55:LYS:O	2.17	0.43
9:AJ:153:HIS:HE1	13:AN:58:PRO:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:15:ARG:O	14:AO:17:LYS:N	2.51	0.43
15:AP:16:ASP:C	15:AP:19:LEU:HG	2.39	0.43
15:AP:27:LYS:CE	15:AP:31:LYS:HZ3	2.31	0.43
15:AP:14:ARG:NE	15:AP:44:ARG:NH1	2.67	0.43
18:AS:8:ARG:CZ	18:AS:11:SER:O	2.66	0.43
18:AS:39:TYR:CB	18:AS:49:LEU:HD13	2.43	0.43
1:AA:376:G:OP1	18:AS:5:ARG:HB2	2.19	0.43
19:AT:3:LYS:O	19:AT:4:LYS:C	2.55	0.43
19:AT:62:SER:CB	19:AT:72:ARG:NE	2.67	0.43
1:AA:663:A:H4'	20:AU:61:LYS:HZ1	1.84	0.43
21:AV:18:LYS:HA	21:AV:18:LYS:CE	2.33	0.43
1:AA:1320:C:C6	21:AV:37:ARG:NH1	2.86	0.43
22:AW:40:ALA:O	22:AW:42:GLN:N	2.52	0.43
22:AW:61:SER:C	22:AW:65:LYS:HG2	2.39	0.43
23:AX:9:ARG:O	23:AX:10:ARG:C	2.57	0.43
48:B1:39:LEU:N	48:B1:39:LEU:HD23	2.34	0.43
48:B1:58:VAL:HG22	48:B1:59:LEU:N	2.14	0.43
49:B2:26:LEU:H	49:B2:26:LEU:HD22	1.82	0.43
49:B2:29:ARG:C	49:B2:31:LEU:H	2.21	0.43
50:B3:39:CYS:C	50:B3:40:HIS:CG	2.91	0.43
50:B3:65:ASP:HA	50:B3:68:ARG:CZ	2.48	0.43
51:B4:13:LYS:HD3	51:B4:13:LYS:N	2.34	0.43
52:B5:9:LEU:CD1	52:B5:27:LYS:CD	2.97	0.43
53:B6:43:THR:C	53:B6:46:VAL:HB	2.39	0.43
54:B7:34:TRP:CE3	54:B7:34:TRP:HA	2.54	0.43
24:BA:1000:A:N1	24:BA:1155:A:C4	2.86	0.43
24:BA:1001:A:N7	24:BA:1002:G:C4	2.86	0.43
24:BA:82:G:C8	24:BA:102:G:C2	3.07	0.43
24:BA:104:U:C2'	24:BA:105:C:H5'	2.48	0.43
24:BA:112:U:C3'	24:BA:113:G:C5'	2.95	0.43
24:BA:1187:G:C2'	24:BA:1188:U:OP2	2.67	0.43
24:BA:1221:C:H2'	24:BA:1222:C:O5'	2.19	0.43
24:BA:1327:C:H41	24:BA:1647:G:N2	2.17	0.43
24:BA:1435:G:N2	24:BA:1558:A:H62	2.16	0.43
24:BA:1447:G:O4'	24:BA:1545(A):A:C5'	2.67	0.43
24:BA:1449:A:H5'	24:BA:1542:G:N3	2.34	0.43
24:BA:1937:A:N7	24:BA:1939:U:C5	2.86	0.43
24:BA:1945:G:H2'	24:BA:1946:U:H6	1.84	0.43
24:BA:1953:A:C5	24:BA:2550:G:H1'	2.54	0.43
24:BA:1992:G:O3'	24:BA:1993:U:C5	2.71	0.43
24:BA:2047:U:O2	24:BA:2048:G:C8	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:208:C:H2'	24:BA:209:C:C5	2.53	0.43
24:BA:2262:U:O2'	24:BA:2263:C:H5'	2.18	0.43
24:BA:2409:G:C2	24:BA:2410:G:H1'	2.45	0.43
24:BA:248:G:N2	24:BA:2431:U:C5'	2.81	0.43
24:BA:243:U:O2	24:BA:243:U:C2'	2.64	0.43
24:BA:2491:U:C5	24:BA:2492:U:O5'	2.72	0.43
24:BA:259:G:C4	24:BA:260:G:C8	3.07	0.43
24:BA:2633:G:C4	24:BA:2634:G:C8	3.07	0.43
24:BA:2705:A:HO2'	24:BA:2706:G:P	2.41	0.43
24:BA:2834:G:N2	24:BA:2883:A:C8	2.86	0.43
24:BA:2876:G:N1	24:BA:2877:G:C5	2.87	0.43
24:BA:28:A:H2'	24:BA:29:U:C5'	2.46	0.43
24:BA:349:G:C4	24:BA:350:U:O4	2.72	0.43
24:BA:415:A:H1'	24:BA:1869:G:OP1	2.18	0.43
24:BA:477:A:C3'	24:BA:478:A:C8	3.01	0.43
24:BA:496:G:O6	24:BA:497:A:C6	2.71	0.43
24:BA:18:C:O2'	24:BA:553:U:OP1	2.24	0.43
24:BA:641:C:O2'	24:BA:642:G:H5'	2.18	0.43
24:BA:733:G:H5''	24:BA:733:G:C8	2.54	0.43
24:BA:740:U:HO2'	24:BA:741:G:P	2.40	0.43
24:BA:754:C:H6	24:BA:754:C:O5'	2.01	0.43
24:BA:771:G:C6	24:BA:772:C:C4	3.07	0.43
24:BA:783:A:H2'	24:BA:784:A:H4'	2.00	0.43
24:BA:687:C:O2	24:BA:787:U:O2'	2.37	0.43
24:BA:776:G:N9	24:BA:793:A:C2	2.87	0.43
24:BA:918:A:C8	25:BB:80:U:H4'	2.54	0.43
24:BA:999:U:O2	24:BA:1157:G:C2	2.71	0.43
25:BB:15:A:H5''	25:BB:16:G:P	2.57	0.43
25:BB:50:G:OP2	39:BR:63:THR:OG1	2.28	0.43
27:BD:159:ALA:HB3	27:BD:202:LYS:HZ2	1.82	0.43
27:BD:15:PHE:O	27:BD:17:THR:N	2.46	0.43
27:BD:82:ILE:CG1	27:BD:92:ILE:O	2.66	0.43
28:BE:101:ARG:HD3	28:BE:170:LEU:O	2.19	0.43
28:BE:203:LYS:CG	28:BE:203:LYS:O	2.66	0.43
28:BE:87:GLU:HB3	28:BE:89:ASP:H	1.84	0.43
28:BE:91:VAL:CG1	28:BE:95:ILE:HD13	2.41	0.43
29:BF:156:LEU:HG	29:BF:167:ALA:HB1	2.00	0.43
29:BF:182:ASN:ND2	29:BF:185:ASP:CG	2.71	0.43
29:BF:34:TRP:HB3	29:BF:38:ARG:NH1	2.34	0.43
30:BG:22:ARG:CD	30:BG:23:PHE:CD2	3.01	0.43
30:BG:40:ASN:HD22	30:BG:41:GLN:H	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:32:GLU:O	31:BH:33:LEU:C	2.56	0.43
33:BL:27:LEU:HD22	33:BL:32:ALA:HB3	2.00	0.43
24:BA:1131:G:N2	34:BM:72:TYR:CE1	2.87	0.43
34:BM:89:LYS:CE	34:BM:89:LYS:N	2.72	0.43
35:BN:47:ILE:HD12	35:BN:52:VAL:CG1	2.28	0.43
37:BP:126:PRO:C	37:BP:127:ILE:HG13	2.38	0.43
37:BP:27:VAL:CG1	37:BP:104:PHE:CE2	3.01	0.43
38:BQ:67:LEU:HD23	38:BQ:76:VAL:CG2	2.48	0.43
39:BR:78:LEU:CD1	39:BR:79:ALA:N	2.65	0.43
40:BS:16:ARG:O	40:BS:17:THR:C	2.55	0.43
40:BS:70:VAL:HG23	40:BS:74:ARG:HD2	2.01	0.43
40:BS:65:LYS:NZ	40:BS:75:ILE:CD1	2.80	0.43
42:BU:52:VAL:O	42:BU:55:ALA:N	2.52	0.43
45:BX:11:ASP:HB2	45:BX:73:ARG:HH22	1.84	0.43
45:BX:19:LYS:NZ	45:BX:39:VAL:CB	2.81	0.43
45:BX:1:MET:HA	45:BX:33:LYS:CE	2.45	0.43
46:BY:152:ALA:O	46:BY:155:LEU:CD2	2.55	0.43
46:BY:42:VAL:CA	46:BY:45:ASP:OD2	2.67	0.43
46:BY:44:PHE:HB3	46:BY:48:PHE:HE1	1.84	0.43
47:BZ:27:GLU:N	47:BZ:69:PHE:CE1	2.80	0.43
47:BZ:46:LYS:CB	47:BZ:78:TYR:CD2	2.94	0.43
32:BK:123:LEU:HD11	32:BK:145:VAL:C	2.39	0.43
3:AD:22:G:C2'	3:AD:23:A:H8	2.24	0.43
24:BA:2135:A:C2'	24:BA:2136:C:OP2	2.67	0.43
26:BC:103:ILE:HB	26:BC:127:LEU:HD21	2.00	0.43
26:BC:120:MET:SD	26:BC:145:VAL:CG2	3.06	0.43
24:BA:1417:C:N3	24:BA:1581:G:N2	2.66	0.43
24:BA:2340:G:N1	24:BA:2341:G:C5	2.87	0.43
1:AA:345:C:H5'	1:AA:346:G:C4	2.54	0.43
1:AA:1381:U:H2'	1:AA:1382:C:H5'	2.01	0.43
8:AI:28:ARG:HG2	8:AI:28:ARG:NH1	2.32	0.43
1:AA:1060:C:C2	1:AA:1061:G:C8	3.07	0.43
1:AA:1061:G:H2'	1:AA:1062:U:O4'	2.19	0.43
1:AA:1082:G:H2'	1:AA:1083:U:H5'	2.01	0.43
1:AA:1084:G:O3'	1:AA:1086:U:O4	2.37	0.43
1:AA:1134:G:O6	1:AA:1141:C:N4	2.51	0.43
1:AA:1246:C:O2'	1:AA:1247:U:C5'	2.64	0.43
1:AA:1247:U:N3	1:AA:1291:G:C6	2.86	0.43
1:AA:1286:A:C3'	1:AA:1286:A:C8	3.02	0.43
1:AA:1348:U:O2	1:AA:1349:A:C8	2.71	0.43
1:AA:184:G:C4'	1:AA:224:C:C4'	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:272:C:C2	1:AA:273:A:N7	2.87	0.43
1:AA:242:C:N3	1:AA:285:G:C2	2.87	0.43
1:AA:370:C:N3	1:AA:392:G:C2	2.87	0.43
1:AA:684:A:H2'	1:AA:685:G:O4'	2.17	0.43
1:AA:795:C:C4'	1:AA:1506:U:C2	3.01	0.43
2:AC:26:G:C5	2:AC:27:U:C5	3.07	0.43
2:AC:72:A:N1	2:AC:73:A:C6	2.86	0.43
4:AE:105:PHE:HZ	4:AE:152:PHE:HZ	1.65	0.43
4:AE:104:ASN:OD1	4:AE:107:THR:HB	2.19	0.43
4:AE:114:ARG:C	4:AE:114:ARG:CD	2.87	0.43
4:AE:75:LYS:HA	4:AE:75:LYS:HE3	2.01	0.43
5:AF:127:ARG:C	5:AF:128:PHE:HD1	2.22	0.43
5:AF:36:ASP:O	5:AF:39:ILE:CB	2.57	0.43
6:AG:100:ARG:NH1	6:AG:137:SER:HA	2.34	0.43
6:AG:118:ARG:HG3	6:AG:136:PRO:HG2	2.01	0.43
6:AG:181:MET:HB2	6:AG:181:MET:HE2	1.87	0.43
6:AG:173:TRP:CD1	6:AG:185:PHE:CE2	3.03	0.43
6:AG:57:ARG:HG3	6:AG:202:LEU:HD23	2.01	0.43
7:AH:141:GLN:C	7:AH:142:LEU:CG	2.87	0.43
7:AH:76:ILE:CG2	7:AH:142:LEU:HB3	2.48	0.43
7:AH:48:ALA:CB	7:AH:53:LEU:CB	2.96	0.43
7:AH:82:VAL:O	7:AH:88:LYS:HA	2.19	0.43
7:AH:92:LYS:O	7:AH:118:ILE:HG23	2.19	0.43
9:AJ:126:ASP:O	9:AJ:129:GLU:OE1	2.37	0.43
9:AJ:54:THR:C	9:AJ:56:GLN:HE21	2.22	0.43
10:AK:102:ARG:NH1	10:AK:102:ARG:CG	2.82	0.43
10:AK:89:PRO:HB3	10:AK:92:ARG:NH2	2.34	0.43
1:AA:1367:C:OP1	11:AL:113:LYS:O	2.36	0.43
11:AL:5:TYR:CD2	11:AL:17:VAL:O	2.71	0.43
11:AL:33:PHE:C	11:AL:35:GLU:N	2.71	0.43
12:AM:28:ARG:NH1	12:AM:28:ARG:HG2	2.33	0.43
13:AN:30:VAL:O	13:AN:42:TRP:CB	2.65	0.43
17:AR:57:LEU:HD11	24:BA:715:G:H22	1.83	0.43
17:AR:65:ARG:NH1	17:AR:65:ARG:HB3	2.33	0.43
18:AS:68:ASP:C	18:AS:70:ALA:N	2.71	0.43
19:AT:16:GLN:C	19:AT:18:THR:H	2.22	0.43
19:AT:57:VAL:HB	19:AT:75:ARG:O	2.19	0.43
19:AT:5:VAL:C	19:AT:6:LEU:HG	2.39	0.43
8:AI:100:ASN:OD1	20:AU:27:GLY:HA2	2.18	0.43
22:AW:60:GLU:HG3	22:AW:81:LYS:HE2	1.99	0.43
49:B2:19:GLN:HE22	49:B2:50:VAL:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:22:ILE:CG2	50:B3:27:THR:HB	2.48	0.43
52:B5:22:ALA:C	52:B5:23:THR:OG1	2.56	0.43
55:B8:6:SER:O	55:B8:7:VAL:C	2.56	0.43
24:BA:1004:C:O4'	24:BA:1010:A:N1	2.52	0.43
24:BA:1019:U:OP1	24:BA:1036:G:H1'	2.18	0.43
24:BA:1055:G:O6	24:BA:1056:G:N2	2.52	0.43
24:BA:1283:G:N2	24:BA:1286:A:O5'	2.49	0.43
24:BA:1385:G:C5	24:BA:1386:C:C5	3.07	0.43
24:BA:1449(A):G:C6	24:BA:1450:C:C4	3.07	0.43
24:BA:1455:G:O2'	24:BA:1456:G:H5'	2.19	0.43
24:BA:1482:U:H5''	24:BA:1482:U:H6	1.83	0.43
24:BA:1523:U:H2'	24:BA:1524:G:C8	2.53	0.43
24:BA:1641:A:OP2	24:BA:1641:A:H8	2.01	0.43
24:BA:1710:C:C2	24:BA:1711:C:C6	3.07	0.43
24:BA:1817:G:C5'	27:BD:88:ARG:NH2	2.81	0.43
24:BA:1824:G:H21	27:BD:253:GLN:CG	2.27	0.43
24:BA:190:A:C2	24:BA:191:A:C6	3.06	0.43
24:BA:196:A:H5'	24:BA:2068:U:O4	2.18	0.43
24:BA:2047:U:O2'	24:BA:2048:G:O5'	2.37	0.43
24:BA:858:U:H2'	24:BA:2268:A:C8	2.54	0.43
24:BA:2273:A:H8	24:BA:2274:A:O4'	2.01	0.43
24:BA:2286:A:C2	52:B5:29:ASN:OD1	2.72	0.43
24:BA:2320:A:P	24:BA:2320:A:H8	2.41	0.43
24:BA:2345:G:N2	24:BA:2381:C:C2'	2.82	0.43
24:BA:2351:G:H1'	24:BA:2367:G:N2	2.34	0.43
24:BA:2476:A:C8	24:BA:2477:C:C6	3.07	0.43
24:BA:2476:A:H2	24:BA:2481:G:H22	1.58	0.43
24:BA:2543:G:C6	24:BA:2544:G:N1	2.87	0.43
24:BA:2546:U:C4'	24:BA:2565:A:N1	2.81	0.43
24:BA:2023:G:C5'	24:BA:2617:C:O3'	2.67	0.43
24:BA:2653:U:C4	24:BA:2654:A:N6	2.87	0.43
24:BA:2695:C:O2	24:BA:2696:U:C5	2.72	0.43
24:BA:1296:G:H5''	24:BA:2709:G:O2'	2.19	0.43
24:BA:2717:G:N3	24:BA:2718:G:C8	2.87	0.43
24:BA:2895:U:C2	24:BA:2896:C:C5	3.07	0.43
24:BA:5:A:C6	24:BA:2899:G:C6	3.06	0.43
24:BA:298:G:N1	24:BA:338:G:H4'	2.34	0.43
24:BA:350:U:H6	24:BA:350:U:O5'	2.02	0.43
24:BA:35:G:H2'	24:BA:36:G:H8	1.84	0.43
24:BA:460:A:C2'	24:BA:461:C:C6	3.02	0.43
24:BA:497:A:C6	24:BA:498:G:N1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:526:A:H5''	24:BA:527:C:P	2.57	0.43
24:BA:557:U:C2	24:BA:558:G:C8	3.07	0.43
24:BA:56:A:H2'	24:BA:57:C:H6	1.83	0.43
24:BA:664:C:C2'	24:BA:664:C:O2	2.62	0.43
24:BA:789:A:OP1	24:BA:789:A:C3'	2.65	0.43
24:BA:824:A:H3'	24:BA:825:C:H5	1.82	0.43
24:BA:922:U:O2	24:BA:923:C:C4	2.71	0.43
24:BA:977:G:C6	24:BA:987:G:N1	2.87	0.43
25:BB:56:G:HO2'	25:BB:57:A:H5'	1.82	0.43
25:BB:71:C:O2	25:BB:71:C:C2'	2.65	0.43
25:BB:75:G:H5'	46:BY:11:GLU:HA	2.00	0.43
25:BB:81:G:C6	25:BB:82:G:N7	2.87	0.43
25:BB:8:U:C2	25:BB:9:G:C8	3.06	0.43
27:BD:155:LEU:HB2	27:BD:157:ARG:CZ	2.49	0.43
27:BD:18:VAL:C	27:BD:20:ASP:H	2.21	0.43
24:BA:1820:U:C6	27:BD:202:LYS:HG2	2.53	0.43
27:BD:226:MET:CE	27:BD:236:GLY:N	2.82	0.43
27:BD:84:TYR:HB2	27:BD:91:ARG:HA	2.00	0.43
28:BE:133:LYS:CD	28:BE:137:HIS:CB	2.91	0.43
28:BE:178:GLU:H	28:BE:178:GLU:CD	2.19	0.43
28:BE:51:PHE:HE1	28:BE:76:ARG:N	2.15	0.43
29:BF:11:VAL:HG22	29:BF:126:VAL:CG1	2.48	0.43
29:BF:128:ALA:HB1	29:BF:142:TRP:CE2	2.53	0.43
29:BF:162:LEU:O	29:BF:165:ARG:NH2	2.52	0.43
29:BF:74:ARG:NH1	29:BF:75:HIS:ND1	2.66	0.43
30:BG:168:GLU:C	30:BG:170:ARG:N	2.72	0.43
30:BG:82:LEU:N	30:BG:82:LEU:HD23	2.34	0.43
31:BH:46:GLU:HA	31:BH:46:GLU:OE1	2.19	0.43
32:BK:24:GLY:C	32:BK:29:TYR:CE1	2.92	0.43
33:BL:30:HIS:HD1	33:BL:30:HIS:C	2.19	0.43
34:BM:86:PRO:C	34:BM:89:LYS:HZ2	2.17	0.43
35:BN:5:GLN:O	35:BN:7:TYR:HE1	2.02	0.43
36:BO:63:PRO:HG2	36:BO:65:ARG:HD2	2.01	0.43
36:BO:88:LEU:HD11	36:BO:124:LYS:NZ	2.33	0.43
38:BQ:70:LEU:N	38:BQ:70:LEU:HD23	2.34	0.43
39:BR:62:LYS:CB	39:BR:65:VAL:H	2.21	0.43
40:BS:115:ARG:C	40:BS:117:ASP:N	2.72	0.43
41:BT:101:ARG:O	41:BT:102:GLU:OE2	2.37	0.43
43:BV:36:LEU:HD11	43:BV:48:ALA:HB2	2.01	0.43
45:BX:24:VAL:HG21	45:BX:38:ILE:HD12	2.00	0.43
45:BX:54:LYS:HE2	45:BX:54:LYS:CA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:86:ARG:CB	45:BX:91:GLU:HB3	2.48	0.43
46:BY:28:MET:SD	46:BY:29:TYR:N	2.92	0.43
46:BY:2:GLU:O	46:BY:59:LEU:O	2.36	0.43
47:BZ:48:GLY:O	47:BZ:51:VAL:CG2	2.67	0.43
32:BK:77:LEU:HD21	32:BK:140:LEU:HD22	2.00	0.43
3:AD:44:G:P	3:AD:44:G:H8	2.41	0.43
3:AD:58:A:C2'	3:AD:61:C:C5	3.02	0.43
3:AD:53:G:C2	3:AD:62:C:N3	2.87	0.43
24:BA:2136:C:C2	24:BA:2137:C:C6	3.07	0.43
26:BC:148:ASN:HB2	26:BC:151:GLU:CB	2.48	0.43
26:BC:160:ARG:HH11	26:BC:160:ARG:CG	2.32	0.43
26:BC:171:ILE:HD13	26:BC:192:PHE:CZ	2.54	0.43
26:BC:177:LYS:O	26:BC:180:PHE:HB3	2.18	0.43
26:BC:34:THR:HG23	26:BC:38:ASP:CA	2.44	0.43
32:BK:120:ILE:HA	32:BK:120:ILE:HD12	1.78	0.43
1:AA:1033:G:N1	1:AA:1034:G:C5	2.87	0.43
1:AA:1039:C:O2'	1:AA:1040:U:H5'	2.19	0.43
1:AA:999:U:C4	1:AA:1042:G:C6	3.07	0.43
24:BA:2107:C:C4	24:BA:2108:C:C5	3.06	0.43
1:AA:164:U:H2'	1:AA:165:C:H5	1.81	0.43
47:BZ:5:LYS:CG	47:BZ:6:GLY:H	2.31	0.43
32:BK:117:GLU:HB2	32:BK:118:LYS:H	1.71	0.43
1:AA:1043:C:H2'	1:AA:1044:A:C4'	2.49	0.43
1:AA:1083:U:C6	1:AA:1084:G:N7	2.87	0.43
1:AA:1124:G:OP1	12:AM:35:SER:OG	2.32	0.43
1:AA:1138:G:C6	1:AA:1140:C:N1	2.86	0.43
1:AA:1245:A:C2	1:AA:1246:C:C2	3.07	0.43
1:AA:1290:G:C6	1:AA:1291:G:C8	3.07	0.43
1:AA:1304:G:H1	1:AA:1332:A:P	2.42	0.43
1:AA:1234:C:C5'	1:AA:1364:U:O2'	2.61	0.43
1:AA:928:G:C2	1:AA:1390:U:H1'	2.54	0.43
1:AA:1442:G:H21	1:AA:1446:A:H5''	1.82	0.43
1:AA:1454:G:O2'	1:AA:1455:G:H5'	2.19	0.43
1:AA:150:C:H2'	1:AA:151:A:O5'	2.19	0.43
1:AA:168:G:C6	1:AA:169:C:N4	2.87	0.43
1:AA:16:A:H2	1:AA:17:U:O4'	2.02	0.43
1:AA:22:G:OP1	1:AA:561:U:H1'	2.19	0.43
1:AA:294:U:C2	1:AA:295:C:H5	2.35	0.43
1:AA:307:C:C6	1:AA:307:C:C5'	3.02	0.43
1:AA:44:G:C5	1:AA:399:G:N1	2.87	0.43
1:AA:451:A:C6	1:AA:480:U:H2'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:505:G:C5	1:AA:506:G:N7	2.87	0.43
1:AA:740:U:O2'	1:AA:741:G:H5'	2.18	0.43
1:AA:571:U:H4'	1:AA:819:A:H62	1.84	0.43
1:AA:957:U:O2	1:AA:960:U:C6	2.72	0.43
1:AA:983:A:H2'	1:AA:983:A:N3	2.33	0.43
2:AC:28:C:C2	2:AC:29:G:C8	3.07	0.43
3:AD:41:G:N2	3:AD:42:C:O2	2.52	0.43
3:AD:70:G:H2'	3:AD:71:G:H8	1.81	0.43
4:AE:147:LYS:HG3	4:AE:148:TYR:CD1	2.54	0.43
4:AE:173:ALA:C	4:AE:175:ARG:N	2.72	0.43
4:AE:213:LEU:O	4:AE:216:SER:HB3	2.18	0.43
4:AE:22:LYS:O	4:AE:24:TRP:HD1	1.99	0.43
4:AE:56:ARG:HA	4:AE:59:GLU:HG2	2.00	0.43
4:AE:74:LYS:O	4:AE:75:LYS:C	2.55	0.43
5:AF:84:ILE:HG13	5:AF:101:LEU:HB3	2.01	0.43
5:AF:23:TYR:CE1	12:AM:10:GLY:C	2.92	0.43
5:AF:82:GLU:O	5:AF:83:ARG:C	2.55	0.43
6:AG:103:ASN:OD1	6:AG:103:ASN:C	2.57	0.43
6:AG:147:ALA:O	6:AG:148:VAL:C	2.57	0.43
6:AG:172:PRO:HG2	6:AG:173:TRP:HE3	1.83	0.43
7:AH:48:ALA:HB1	7:AH:53:LEU:HB2	2.01	0.43
8:AI:14:LEU:HD13	8:AI:18:GLN:CB	2.41	0.43
8:AI:95:GLU:N	8:AI:96:PRO:CD	2.77	0.43
10:AK:111:ILE:HD12	10:AK:135:CYS:O	2.19	0.43
10:AK:33:GLU:HG2	10:AK:59:LEU:CD2	2.44	0.43
11:AL:120:ARG:O	11:AL:122:ALA:N	2.52	0.43
11:AL:91:ASP:O	11:AL:92:TYR:HD2	2.01	0.43
12:AM:8:LEU:HD11	12:AM:19:SER:CB	2.48	0.43
13:AN:102:GLY:C	13:AN:104:GLN:N	2.68	0.43
13:AN:99:GLN:CB	13:AN:105:VAL:HG11	2.48	0.43
13:AN:39:PRO:C	13:AN:40:ILE:HD13	2.39	0.43
13:AN:48:ILE:HG13	13:AN:64:ALA:HB2	2.01	0.43
15:AP:8:GLU:HG3	15:AP:22:ILE:HG12	2.01	0.43
15:AP:4:ILE:O	15:AP:5:ALA:CB	2.66	0.43
16:AQ:48:ALA:O	16:AQ:49:HIS:C	2.57	0.43
17:AR:33:THR:O	17:AR:36:ILE:HB	2.18	0.43
1:AA:580:U:H4'	17:AR:58:MET:HG2	2.00	0.43
17:AR:71:GLN:CA	17:AR:78:TYR:CD1	3.02	0.43
18:AS:11:SER:OG	18:AS:14:ASN:ND2	2.45	0.43
18:AS:21:VAL:CG1	18:AS:36:ILE:HD11	2.43	0.43
18:AS:3:LYS:HE2	18:AS:24:ALA:CB	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:32:TYR:O	19:AT:33:GLY:C	2.57	0.43
22:AW:18:GLN:O	22:AW:19:SER:C	2.56	0.43
49:B2:15:TYR:CD1	49:B2:15:TYR:N	2.86	0.43
49:B2:17:LYS:O	49:B2:19:GLN:N	2.52	0.43
49:B2:28:LEU:O	49:B2:29:ARG:CB	2.67	0.43
49:B2:8:LEU:HD13	49:B2:8:LEU:C	2.39	0.43
49:B2:8:LEU:HD23	49:B2:28:LEU:HD22	2.00	0.43
53:B6:30:VAL:HA	53:B6:33:ARG:NE	2.33	0.43
54:B7:23:VAL:HG13	54:B7:47:LYS:N	2.33	0.43
54:B7:60:LEU:HD21	54:B7:64:TYR:O	2.19	0.43
24:BA:1024:G:H3'	24:BA:1025:G:H5''	2.01	0.43
24:BA:1031:G:C6	24:BA:1032:A:N6	2.87	0.43
24:BA:1048:A:C2	24:BA:1049:C:C1'	2.96	0.43
24:BA:1027:A:C6	24:BA:1126:A:C4	3.07	0.43
24:BA:1182:A:H3'	24:BA:1183:G:H3'	2.01	0.43
24:BA:1205:U:C2'	24:BA:1206:G:N7	2.81	0.43
24:BA:1388:G:O2'	24:BA:1389:G:H5'	2.18	0.43
24:BA:1422:G:C2	24:BA:1423:G:C5	3.07	0.43
24:BA:1646:C:C3'	24:BA:1647:G:C5'	2.89	0.43
24:BA:1662:C:C2	24:BA:1663:C:C5	3.07	0.43
24:BA:1682:G:C6	24:BA:1757:U:O4'	2.71	0.43
24:BA:1693:U:O4	24:BA:1977:A:C5	2.72	0.43
24:BA:1790:C:O2	24:BA:1790:C:C2'	2.67	0.43
24:BA:1842:G:C4	24:BA:1843:C:C6	3.07	0.43
24:BA:1864:U:O5'	24:BA:1864:U:H6	2.01	0.43
24:BA:1264:G:N1	24:BA:2014:A:OP2	2.52	0.43
24:BA:2021:C:H5'	24:BA:2022:U:C5	2.53	0.43
24:BA:529:A:N6	24:BA:2023:G:C1'	2.81	0.43
24:BA:2034:U:H2'	24:BA:2035:G:H5'	2.00	0.43
24:BA:2053:G:N7	24:BA:2577:A:N6	2.67	0.43
24:BA:2234:G:N2	24:BA:2235:G:C4	2.87	0.43
24:BA:2278:A:P	37:BP:14:ARG:CG	3.01	0.43
24:BA:2290:G:C2	24:BA:2291:U:C2	3.07	0.43
24:BA:2311:A:H3'	24:BA:2312:U:C5	2.53	0.43
24:BA:2352:A:N7	24:BA:2366:A:N6	2.66	0.43
24:BA:2355:C:O2'	47:BZ:24:LYS:NZ	2.47	0.43
24:BA:2357:U:O5'	24:BA:2357:U:H6	2.01	0.43
24:BA:2362:G:OP1	54:B7:29:LYS:HE3	2.18	0.43
24:BA:2424:C:H5'	24:BA:2425:A:C5'	2.49	0.43
24:BA:2479:G:O5'	24:BA:2479:G:H8	2.01	0.43
24:BA:248:G:N3	24:BA:2431:U:H5''	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2524:G:H21	24:BA:2741:A:H1'	1.83	0.43
24:BA:2636:U:O3'	28:BE:79:ARG:NH2	2.51	0.43
24:BA:2636:U:O5'	28:BE:79:ARG:HD3	2.18	0.43
24:BA:2752:C:H6	24:BA:2752:C:P	2.41	0.43
24:BA:2795:G:O2'	24:BA:2797:U:H5	2.01	0.43
24:BA:2820:A:H5'	24:BA:2821:A:N7	2.34	0.43
24:BA:2838:G:H4'	38:BQ:45:ARG:HH12	1.84	0.43
24:BA:2899:G:C6	24:BA:2900:A:N7	2.87	0.43
24:BA:344:G:N2	24:BA:345:A:C6	2.86	0.43
24:BA:540:G:C5	24:BA:541:C:C5	3.07	0.43
24:BA:643:A:O2'	24:BA:644:A:OP2	2.36	0.43
24:BA:641:C:C4	24:BA:646:A:N1	2.87	0.43
24:BA:650:C:C2'	24:BA:650:C:O2	2.55	0.43
24:BA:587:C:N3	24:BA:671:C:C6	2.87	0.43
24:BA:729:G:C4	24:BA:730:C:N1	2.87	0.43
24:BA:740:U:O4'	24:BA:1784:A:C8	2.72	0.43
24:BA:816:C:C2'	24:BA:817:C:C5'	2.85	0.43
24:BA:830:G:N7	24:BA:2448:A:H2'	2.34	0.43
24:BA:831:G:C6	24:BA:832:G:C5	3.07	0.43
24:BA:850:C:H1'	49:B2:22:ALA:HA	2.01	0.43
24:BA:937:U:H2'	24:BA:938:G:O4'	2.18	0.43
24:BA:940:G:N3	24:BA:1191:G:H4'	2.34	0.43
24:BA:962:G:C2	24:BA:963:U:C4	3.07	0.43
24:BA:9:U:C2'	24:BA:9:U:O2	2.66	0.43
25:BB:44:G:C5'	25:BB:45:A:OP1	2.62	0.43
27:BD:133:LEU:HB2	27:BD:136:ILE:HD11	1.99	0.43
27:BD:264:LYS:O	27:BD:265:PRO:C	2.54	0.43
28:BE:138:PRO:O	28:BE:139:GLY:O	2.37	0.43
28:BE:119:ARG:CG	28:BE:156:MET:O	2.67	0.43
28:BE:167:VAL:HG21	28:BE:189:PRO:HD3	2.00	0.43
28:BE:195:LEU:HD22	28:BE:195:LEU:HA	1.72	0.43
28:BE:5:LEU:HD23	28:BE:6:GLY:O	2.19	0.43
24:BA:321:G:P	29:BF:135:LYS:HG2	2.59	0.43
29:BF:141:ALA:O	29:BF:144:LYS:N	2.52	0.43
29:BF:154:VAL:O	29:BF:174:VAL:HG22	2.18	0.43
29:BF:168:ARG:NH2	29:BF:168:ARG:CB	2.68	0.43
29:BF:182:ASN:OD1	29:BF:185:ASP:HB2	2.19	0.43
29:BF:41:LEU:HB3	29:BF:184:TYR:HE1	1.82	0.43
29:BF:40:GLN:CA	29:BF:184:TYR:OH	2.67	0.43
30:BG:177:GLY:O	30:BG:178:PHE:HB2	2.17	0.43
30:BG:33:ARG:NH2	30:BG:34:LEU:C	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:56:ALA:HB1	30:BG:68:PRO:HG2	2.00	0.43
30:BG:43:LEU:HD21	30:BG:88:ILE:CG2	2.49	0.43
31:BH:11:VAL:N	31:BH:50:VAL:CG2	2.82	0.43
31:BH:94:TYR:OH	31:BH:128:PRO:HG2	2.19	0.43
31:BH:157:TYR:HB3	31:BH:172:LYS:HG2	2.01	0.43
31:BH:59:ARG:HA	31:BH:62:LYS:CG	2.49	0.43
31:BH:91:GLY:O	31:BH:93:GLY:N	2.51	0.43
34:BM:55:VAL:HG21	34:BM:129:PRO:CG	2.49	0.43
36:BO:135:LEU:HD12	36:BO:135:LEU:N	2.34	0.43
24:BA:811:U:OP2	36:BO:28:GLY:O	2.37	0.43
24:BA:2415:G:OP2	36:BO:61:ARG:NH2	2.52	0.43
36:BO:65:ARG:HH11	36:BO:68:GLN:CD	2.19	0.43
37:BP:34:LEU:CG	37:BP:67:ARG:NH2	2.79	0.43
37:BP:89:ASN:C	37:BP:91:GLU:OE2	2.57	0.43
38:BQ:103:ARG:CB	38:BQ:108:GLY:C	2.87	0.43
38:BQ:28:LEU:HB2	38:BQ:34:ILE:HG13	2.01	0.43
39:BR:92:TYR:CE2	39:BR:93:LYS:HB3	2.53	0.43
39:BR:97:ARG:NH2	39:BR:97:ARG:CG	2.80	0.43
40:BS:21:GLU:C	40:BS:23:ARG:H	2.21	0.43
24:BA:533:G:H5''	41:BT:24:TYR:HD2	1.83	0.43
42:BU:12:TYR:O	42:BU:13:ARG:CG	2.67	0.43
42:BU:3:ALA:C	42:BU:4:ILE:HD12	2.38	0.43
45:BX:14:LEU:CD2	45:BX:19:LYS:H	2.27	0.43
45:BX:52:SER:O	45:BX:53:PRO:C	2.56	0.43
46:BY:30:ASN:O	46:BY:32:HIS:N	2.52	0.43
47:BZ:40:GLN:NE2	47:BZ:57:PHE:CD2	2.85	0.43
47:BZ:40:GLN:OE1	47:BZ:43:THR:CA	2.64	0.43
47:BZ:29:GLN:O	47:BZ:66:VAL:HG22	2.18	0.43
24:BA:2149:G:C2'	24:BA:2150:U:O5'	2.67	0.43
24:BA:2164:C:N3	24:BA:2165:G:C2	2.87	0.43
1:AA:1004:A:C8	1:AA:1037:C:N4	2.87	0.43
24:BA:2182:G:C2	24:BA:2183:C:C2	3.07	0.43
24:BA:363(C):G:C2	24:BA:363(D):G:C8	3.07	0.43
1:AA:1007:C:C2	1:AA:1008:C:C5	3.07	0.43
1:AA:1129:C:O4'	1:AA:1130:A:N7	2.52	0.43
1:AA:1135:U:H2'	1:AA:1137:C:C5	2.53	0.43
1:AA:1178:G:H2'	1:AA:1179:A:H3'	2.01	0.43
1:AA:1065:U:C5	1:AA:1190:G:N3	2.87	0.43
1:AA:1290:G:H2'	1:AA:1291:G:H5'	2.01	0.43
1:AA:1340:A:O3'	2:AC:32:C:H5'	2.18	0.43
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1406:U:H2'	1:AA:1407:C:H6	1.84	0.43
1:AA:1500:A:OP1	1:AA:1505:G:OP1	2.37	0.43
1:AA:296:U:C2	1:AA:297:G:N7	2.86	0.43
1:AA:380:G:N2	1:AA:382:A:C3'	2.67	0.43
1:AA:421:U:H6	1:AA:421:U:P	2.41	0.43
1:AA:447:G:H2'	1:AA:448:A:OP2	2.18	0.43
1:AA:559:A:HO2'	1:AA:560:U:P	2.39	0.43
1:AA:581:G:N1	1:AA:758:G:H2'	2.33	0.43
1:AA:401:C:O2'	1:AA:621:A:N3	2.41	0.43
1:AA:655:A:C6	1:AA:656:C:C4	3.07	0.43
1:AA:713:G:H21	1:AA:777:A:C1'	2.31	0.43
1:AA:766:A:C2	1:AA:767:A:N9	2.87	0.43
1:AA:860:A:N7	1:AA:861:G:C5	2.87	0.43
1:AA:85:U:O2'	1:AA:86:U:H5'	2.19	0.43
1:AA:886:G:C4	1:AA:887:G:C8	3.07	0.43
1:AA:893:C:H5'	1:AA:1415:G:O2'	2.19	0.43
1:AA:76:G:C6	1:AA:95:G:C6	3.07	0.43
1:AA:980:C:C4	1:AA:981:U:O2	2.72	0.43
4:AE:120:ALA:O	4:AE:122:PHE:HB2	2.18	0.43
4:AE:219:VAL:C	4:AE:223:ILE:HD12	2.39	0.43
4:AE:223:ILE:HA	4:AE:226:ARG:HE	1.83	0.43
4:AE:57:PHE:CD2	4:AE:57:PHE:C	2.92	0.43
4:AE:69:LEU:CD2	4:AE:92:TYR:N	2.82	0.43
5:AF:111:LEU:N	5:AF:111:LEU:HD13	2.34	0.43
5:AF:42:LEU:CD1	5:AF:94:LEU:HD12	2.48	0.43
6:AG:106:TYR:HD2	6:AG:114:ARG:CA	2.32	0.43
6:AG:146:ILE:CD1	6:AG:146:ILE:N	2.65	0.43
1:AA:409:G:H5'	6:AG:24:GLU:HB3	2.00	0.43
1:AA:402:G:P	6:AG:74:GLN:HE21	2.41	0.43
8:AI:85:VAL:HG11	8:AI:88:VAL:CG2	2.49	0.43
9:AJ:47:CYS:O	9:AJ:51:GLN:HG2	2.19	0.43
1:AA:1376:U:H5''	9:AJ:94:ARG:HH22	1.84	0.43
10:AK:111:ILE:CG2	10:AK:118:VAL:HG13	2.48	0.43
10:AK:133:LEU:HG	10:AK:133:LEU:H	1.08	0.43
10:AK:48:TYR:HB2	10:AK:61:VAL:CG2	2.49	0.43
11:AL:23:ASN:C	11:AL:59:PHE:O	2.58	0.43
11:AL:30:GLY:C	11:AL:31:GLN:OE1	2.58	0.43
14:AO:69:TYR:HB2	14:AO:96:VAL:HG11	2.00	0.43
14:AO:82:VAL:CG1	14:AO:83:VAL:N	2.82	0.43
15:AP:27:LYS:O	15:AP:29:ARG:N	2.50	0.43
1:AA:1202:G:N9	16:AQ:42:ILE:HD13	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:54:ARG:O	17:AR:57:LEU:HB2	2.19	0.43
17:AR:71:GLN:CG	17:AR:75:PRO:HB3	2.27	0.43
18:AS:21:VAL:HG23	18:AS:34:GLU:C	2.39	0.43
21:AV:19:VAL:HG13	21:AV:20:LEU:N	2.34	0.43
21:AV:39:THR:C	21:AV:40:ILE:O	2.57	0.43
22:AW:44:ALA:HB1	22:AW:92:LEU:HD11	2.00	0.43
48:B1:12:SER:HB2	48:B1:13:PRO:HD2	2.01	0.43
48:B1:36:ILE:HG23	48:B1:41:GLN:NE2	2.33	0.43
49:B2:29:ARG:CG	49:B2:30:ARG:HH11	2.32	0.43
49:B2:4:LEU:HD23	49:B2:57:GLU:O	2.19	0.43
49:B2:4:LEU:HD23	49:B2:5:LYS:H	1.82	0.43
50:B3:52:THR:CG2	50:B3:53:GLU:H	2.28	0.43
51:B4:55:ARG:C	51:B4:57:VAL:N	2.72	0.43
52:B5:25:LYS:CE	54:B7:35:GLN:HB3	2.48	0.43
54:B7:26:LYS:N	54:B7:46:ARG:HA	2.34	0.43
24:BA:1048:A:OP2	24:BA:1109:C:N4	2.51	0.43
24:BA:1077:A:C5	24:BA:1078:U:C2	3.06	0.43
24:BA:1166:C:O2	24:BA:1184:G:C2	2.72	0.43
24:BA:1179:C:C2'	24:BA:1180:C:C6	2.98	0.43
24:BA:1210:A:C1'	24:BA:1212:G:N2	2.76	0.43
24:BA:1231:G:C5	24:BA:1232:G:N7	2.86	0.43
24:BA:1286:A:N7	24:BA:1289:C:C4	2.86	0.43
24:BA:1322:A:N1	24:BA:1333:C:O2'	2.32	0.43
24:BA:1342:A:O3'	24:BA:1344:G:OP2	2.36	0.43
24:BA:1357:U:H2'	24:BA:1358:G:O4'	2.19	0.43
24:BA:1449:A:C2	24:BA:1449(A):G:O4'	2.72	0.43
24:BA:1492:G:N2	24:BA:1499:C:C6	2.87	0.43
24:BA:1631:A:O2'	24:BA:1632:A:H5'	2.19	0.43
24:BA:1658:C:OP1	28:BE:134:ILE:CB	2.65	0.43
24:BA:1778:U:HO2'	24:BA:1779:U:P	2.42	0.43
24:BA:1799:G:N7	27:BD:268:ARG:NH2	2.66	0.43
24:BA:1819:A:O2'	24:BA:1820:U:C5'	2.67	0.43
24:BA:1846:G:H3'	24:BA:1847:A:H5''	2.01	0.43
24:BA:1947:C:N3	24:BA:1948:G:N7	2.67	0.43
24:BA:1957:C:O2'	24:BA:1984:G:N2	2.52	0.43
24:BA:2048:G:N2	24:BA:2049:G:C4	2.86	0.43
24:BA:218:A:H2'	24:BA:219:G:O4'	2.19	0.43
24:BA:2355:C:H5'	47:BZ:36:ILE:CG2	2.43	0.43
24:BA:2356:C:H2'	24:BA:2357:U:C5'	2.49	0.43
24:BA:2369:A:H2'	24:BA:2370:G:H8	1.84	0.43
24:BA:2391:G:N2	24:BA:2427:C:O2'	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2459:A:C5	24:BA:2493:U:C4	3.06	0.43
24:BA:2461:C:C1'	24:BA:2492:U:C4	2.99	0.43
24:BA:2499:C:N4	24:BA:2500:U:O2	2.52	0.43
24:BA:244:A:H1'	24:BA:255:A:N1	2.33	0.43
24:BA:2548:G:C6	24:BA:2561:A:C6	3.07	0.43
24:BA:2621:A:C2'	24:BA:2622:C:O5'	2.67	0.43
24:BA:2654:A:C1'	24:BA:2656:U:C4	2.95	0.43
24:BA:2776:A:N9	24:BA:2778:A:N7	2.66	0.43
24:BA:2826:A:H2'	24:BA:2827:C:O5'	2.18	0.43
24:BA:2839:G:O2'	24:BA:2840:C:C5'	2.61	0.43
24:BA:2876:G:C2	24:BA:2877:G:C8	3.07	0.43
24:BA:270:A:C6	24:BA:370:G:N9	2.87	0.43
24:BA:374:A:C2'	24:BA:375:C:H6	2.32	0.43
24:BA:386:G:C4'	24:BA:387:U:C5	2.81	0.43
24:BA:452:G:C2	24:BA:458:G:N2	2.87	0.43
24:BA:519:U:H6	24:BA:519:U:H5'	1.84	0.43
24:BA:554:U:C2'	24:BA:556:G:N7	2.82	0.43
24:BA:566:U:O2'	24:BA:567:A:P	2.77	0.43
24:BA:600:G:N2	24:BA:604:G:O2'	2.52	0.43
24:BA:607:U:C2'	24:BA:607:U:O2	2.59	0.43
24:BA:762:U:O2	24:BA:762:U:C2'	2.66	0.43
24:BA:89:G:C4	24:BA:90:U:C5	3.04	0.43
24:BA:910:A:C2'	24:BA:911:A:O5'	2.67	0.43
24:BA:920:G:N3	24:BA:921:G:C8	2.86	0.43
24:BA:942:G:C2'	24:BA:943:U:OP1	2.67	0.43
24:BA:975:G:C2	24:BA:976:C:O4'	2.72	0.43
24:BA:987:G:O6	24:BA:988:A:C5	2.72	0.43
25:BB:16:G:O2'	25:BB:17:C:O4'	2.31	0.43
25:BB:61:G:N1	25:BB:62:C:C4	2.87	0.43
27:BD:147:LEU:N	27:BD:154:LYS:HE3	2.34	0.43
27:BD:46:GLN:NE2	27:BD:52:ARG:HH22	2.17	0.43
27:BD:72:LYS:HZ2	27:BD:75:ILE:CD1	2.31	0.43
27:BD:88:ARG:HG3	27:BD:90:ALA:N	2.33	0.43
28:BE:113:PHE:HD1	28:BE:113:PHE:N	2.14	0.43
28:BE:125:GLY:N	28:BE:136:ARG:CB	2.82	0.43
30:BG:102:PHE:CD2	30:BG:106:LEU:CG	3.02	0.43
30:BG:15:VAL:O	30:BG:19:LEU:CD1	2.67	0.43
30:BG:181:ARG:CZ	30:BG:181:ARG:HA	2.48	0.43
31:BH:123:PHE:CD1	31:BH:123:PHE:N	2.87	0.43
31:BH:120:GLY:CA	31:BH:140:LYS:HZ3	2.32	0.43
31:BH:142:GLY:O	31:BH:145:ALA:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:29:PRO:HD2	31:BH:30:LYS:H	1.84	0.43
31:BH:55:PRO:O	31:BH:56:SER:HB2	2.18	0.43
32:BK:25:TYR:CD2	32:BK:25:TYR:N	2.81	0.43
32:BK:39:ALA:O	32:BK:40:THR:O	2.36	0.43
33:BL:41:PHE:HD2	33:BL:41:PHE:HA	1.70	0.43
24:BA:1137:G:H4'	34:BM:105:GLY:HA2	1.99	0.43
34:BM:123:TYR:C	34:BM:125:GLY:H	2.22	0.43
34:BM:130:HIS:O	34:BM:133:GLN:N	2.52	0.43
34:BM:68:GLU:N	34:BM:70:LYS:CE	2.77	0.43
36:BO:72:PRO:CA	36:BO:111:ARG:HB3	2.47	0.43
36:BO:123:LEU:HD21	36:BO:134:ALA:HA	1.99	0.43
36:BO:56:SER:HB3	54:B7:13:ARG:HH21	1.74	0.43
36:BO:56:SER:OG	54:B7:13:ARG:CD	2.67	0.43
36:BO:99:LEU:HD22	36:BO:101:VAL:CG2	2.46	0.43
36:BO:8:PRO:O	36:BO:9:ASN:O	2.37	0.43
37:BP:124:LYS:O	37:BP:125:LEU:C	2.58	0.43
37:BP:134:ARG:HH11	37:BP:135:ASP:HA	1.84	0.43
37:BP:24:GLY:H	37:BP:101:ARG:CZ	2.30	0.43
37:BP:44:ALA:C	37:BP:47:ILE:HB	2.36	0.43
37:BP:77:LYS:HG3	37:BP:87:LYS:CA	2.48	0.43
38:BQ:104:ARG:HH11	38:BQ:104:ARG:HG2	1.84	0.43
39:BR:15:ARG:HA	39:BR:15:ARG:HD3	1.62	0.43
39:BR:4:LEU:N	39:BR:4:LEU:HD23	2.34	0.43
40:BS:82:LEU:HD23	40:BS:83:ILE:HG22	2.01	0.43
41:BT:42:ALA:O	41:BT:45:TYR:CA	2.66	0.43
42:BU:74:LYS:CD	42:BU:74:LYS:H	2.21	0.43
45:BX:82:PRO:CG	45:BX:83:THR:N	2.80	0.43
45:BX:82:PRO:HG3	45:BX:97:ARG:CA	2.47	0.43
46:BY:56:VAL:CG2	46:BY:101:PRO:CD	2.97	0.43
46:BY:135:GLU:C	46:BY:136:PHE:CD1	2.92	0.43
46:BY:169:GLU:O	46:BY:170:THR:OG1	2.34	0.43
46:BY:74:VAL:HG12	46:BY:75:ASN:N	2.33	0.43
46:BY:78:LYS:HG2	46:BY:79:ARG:N	2.29	0.43
47:BZ:26:TYR:HE1	47:BZ:29:GLN:OE1	1.99	0.43
32:BK:123:LEU:HD11	32:BK:146:ALA:N	2.33	0.43
24:BA:2135:A:OP2	24:BA:2135:A:C5	2.72	0.43
24:BA:2111:C:N3	24:BA:2145:C:C2	2.87	0.43
24:BA:2179:C:C2	24:BA:2180:U:C5	3.07	0.43
26:BC:131:LEU:CG	26:BC:136:LEU:HB2	2.49	0.43
26:BC:22:ILE:CD1	26:BC:193:ILE:HD11	2.49	0.43
26:BC:210:ARG:NH1	26:BC:210:ARG:HG2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:61:THR:O	26:BC:62:VAL:CB	2.67	0.43
24:BA:2129:C:P	26:BC:6:ARG:HE	2.41	0.43
28:BE:127:ASP:CG	28:BE:135:HIS:N	2.72	0.43
24:BA:155:C:C2	24:BA:171:G:N1	2.86	0.43
24:BA:2185:C:C2	24:BA:2186:G:N7	2.87	0.43
1:AA:163:C:C2	1:AA:164:U:C6	3.07	0.43
44:BW:11:PRO:HB2	44:BW:13:LEU:HD23	1.99	0.43
1:AA:99:C:O2'	1:AA:101:A:P	2.76	0.42
1:AA:102:G:H2'	1:AA:103:C:H6	1.83	0.42
1:AA:108:G:O6	22:AW:15:ARG:CD	2.67	0.42
1:AA:109:A:H4'	1:AA:110:C:OP2	2.18	0.42
1:AA:1147:C:N3	1:AA:1148:U:C5	2.87	0.42
1:AA:1314:C:C2	1:AA:1315:U:C4	3.07	0.42
1:AA:1315:U:O2'	1:AA:1360:A:C1'	2.67	0.42
1:AA:924:C:O2'	1:AA:1399:C:C5	2.71	0.42
1:AA:1425:U:C2	1:AA:1426:C:C5	3.06	0.42
1:AA:1462:G:H2'	1:AA:1463:C:H6	1.84	0.42
1:AA:1483:A:C8	1:AA:1483:A:O5'	2.71	0.42
1:AA:1499:A:H62	1:AA:1500:A:N6	2.16	0.42
1:AA:1499:A:N6	1:AA:1500:A:C6	2.87	0.42
1:AA:15:G:C3'	1:AA:16:A:H8	2.32	0.42
1:AA:197:A:N6	1:AA:220:G:O2'	2.51	0.42
1:AA:130:A:C2	1:AA:264:U:C1'	3.01	0.42
1:AA:293:G:C4	1:AA:294:U:C5	3.06	0.42
1:AA:325:A:C2'	1:AA:326:G:O5'	2.66	0.42
1:AA:373:A:N1	1:AA:482:A:N6	2.66	0.42
1:AA:37:U:H5	1:AA:38:G:C8	2.37	0.42
1:AA:42:G:C5	1:AA:43:C:C4	3.07	0.42
1:AA:451:A:N7	1:AA:481:G:C6	2.87	0.42
1:AA:551:U:H2'	1:AA:552:U:C5	2.53	0.42
1:AA:800:G:H2'	1:AA:801:U:OP2	2.19	0.42
1:AA:80:G:C2'	1:AA:81:G:C8	3.02	0.42
1:AA:812:C:H1'	1:AA:813:U:C5	2.54	0.42
1:AA:93:U:C2	1:AA:95:G:N7	2.87	0.42
2:AC:5:G:C6	2:AC:6:G:N7	2.87	0.42
4:AE:109:SER:O	4:AE:112:VAL:N	2.52	0.42
4:AE:118:LEU:CD1	4:AE:141:GLU:OE2	2.67	0.42
5:AF:29:TYR:HE2	5:AF:33:LEU:HD12	1.83	0.42
5:AF:8:ILE:HD12	5:AF:16:ARG:HD2	2.01	0.42
6:AG:140:VAL:O	6:AG:141:ARG:C	2.58	0.42
6:AG:128:VAL:CA	6:AG:146:ILE:HG22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:71:SER:O	6:AG:75:PHE:HB3	2.19	0.42
7:AH:110:LEU:O	7:AH:115:VAL:HG22	2.19	0.42
7:AH:41:VAL:HG12	7:AH:112:LEU:HD12	2.00	0.42
9:AJ:139:GLU:CA	9:AJ:142:GLU:HB2	2.49	0.42
9:AJ:89:MET:HB3	9:AJ:156:TRP:HB2	2.01	0.42
9:AJ:54:THR:OG1	9:AJ:56:GLN:CG	2.63	0.42
9:AJ:69:VAL:HG22	9:AJ:135:VAL:CG2	2.49	0.42
9:AJ:71:PRO:HG2	9:AJ:96:GLN:HA	1.99	0.42
10:AK:122:ARG:CD	10:AK:123:GLU:N	2.73	0.42
10:AK:4:ASP:OD1	10:AK:89:PRO:HG3	2.19	0.42
13:AN:122:LYS:O	13:AN:123:LYS:C	2.57	0.42
1:AA:551:U:C5'	14:AO:119:LYS:HZ3	2.29	0.42
16:AQ:29:ARG:HB3	16:AQ:29:ARG:HH11	1.83	0.42
17:AR:53:HIS:CD2	17:AR:57:LEU:HD11	2.54	0.42
18:AS:12:LYS:NZ	18:AS:13:HIS:CE1	2.87	0.42
18:AS:26:ARG:NH1	18:AS:26:ARG:CG	2.81	0.42
20:AU:55:ARG:CZ	20:AU:55:ARG:HB3	2.41	0.42
20:AU:74:ARG:CG	20:AU:79:LEU:HD21	2.49	0.42
21:AV:53:ASN:OD1	21:AV:56:GLN:HB2	2.19	0.42
21:AV:71:LEU:O	21:AV:72:GLY:C	2.57	0.42
48:B1:52:ILE:O	48:B1:56:LEU:CD2	2.58	0.42
49:B2:45:GLY:HA2	49:B2:48:GLU:HG2	2.01	0.42
50:B3:29:PRO:CG	50:B3:31:ILE:HD12	2.49	0.42
51:B4:50:GLY:HA3	51:B4:57:VAL:HG23	2.01	0.42
52:B5:31:PRO:HB3	52:B5:34:LEU:CD1	2.42	0.42
52:B5:40:CYS:SG	52:B5:40:CYS:O	2.75	0.42
52:B5:47:THR:O	52:B5:48:VAL:C	2.57	0.42
53:B6:1:MET:HB3	53:B6:3:ARG:HD3	2.01	0.42
54:B7:17:THR:C	54:B7:19:SER:N	2.68	0.42
54:B7:8:LYS:H	54:B7:8:LYS:HE2	1.80	0.42
55:B8:1:MET:H3	55:B8:35:ARG:HD2	1.82	0.42
24:BA:1022:G:N1	24:BA:1139:G:C2	2.87	0.42
24:BA:1122:G:C2	24:BA:1123:C:C6	3.07	0.42
24:BA:1176:G:H3'	24:BA:1177:A:C8	2.50	0.42
24:BA:1245:G:O2'	24:BA:1246:A:H5'	2.18	0.42
24:BA:1323:U:P	43:BV:84:ARG:NH1	2.92	0.42
24:BA:1348:G:N1	24:BA:1599:C:C4	2.86	0.42
24:BA:772:C:H5'	24:BA:1356:G:P	2.59	0.42
24:BA:1364:G:C2	24:BA:1367:A:OP2	2.72	0.42
24:BA:1436:G:C6	24:BA:1437:C:C4	3.07	0.42
24:BA:1475:G:H21	24:BA:1476:C:C4'	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1486:A:C2'	24:BA:1487:G:H5'	2.49	0.42
24:BA:1518:C:N3	24:BA:1519:G:H1'	2.34	0.42
24:BA:1527:G:O2'	24:BA:1528:A:N3	2.45	0.42
24:BA:1569:A:N1	24:BA:1570:A:C6	2.86	0.42
24:BA:1637:A:H2'	24:BA:1638:C:H6	1.81	0.42
24:BA:1660:C:O2'	24:BA:1661:G:H5'	2.19	0.42
24:BA:1780:A:OP2	24:BA:1782:C:OP2	2.37	0.42
24:BA:1789:A:N7	24:BA:1790:C:C6	2.87	0.42
24:BA:1791:A:O2'	24:BA:1792:G:P	2.76	0.42
24:BA:1972:A:C4	24:BA:1973:G:N7	2.87	0.42
24:BA:2019:A:N1	24:BA:2020:A:N3	2.67	0.42
24:BA:2092:U:C4'	24:BA:2225:A:H2	2.30	0.42
24:BA:2305:A:H5'	24:BA:2306:C:OP2	2.19	0.42
24:BA:2358:G:C2'	24:BA:2358:G:N3	2.80	0.42
24:BA:2261:C:O4'	24:BA:2388:A:H1'	2.18	0.42
24:BA:2405:G:O2'	24:BA:2406:U:P	2.77	0.42
24:BA:2527:C:H2'	24:BA:2528:U:C6	2.54	0.42
24:BA:2559:C:C2'	24:BA:2560:C:O5'	2.66	0.42
24:BA:2588:G:H2'	24:BA:2589:A:C8	2.54	0.42
24:BA:2605:U:H2'	24:BA:2606:C:H6	1.82	0.42
24:BA:2617:C:C2'	24:BA:2618:G:H5'	2.49	0.42
24:BA:2695:C:O2'	24:BA:2696:U:H6	2.02	0.42
24:BA:2742:C:H5''	55:B8:35:ARG:HH22	1.83	0.42
24:BA:28:A:N1	24:BA:29:U:H1'	2.33	0.42
24:BA:471:A:C8	24:BA:472:A:N7	2.86	0.42
24:BA:498:G:H3'	24:BA:498:G:H8	1.82	0.42
24:BA:629:G:H5''	24:BA:649:G:HO2'	1.80	0.42
24:BA:663:G:OP1	36:BO:19:VAL:N	2.50	0.42
24:BA:816:C:H2'	24:BA:817:C:C5'	2.48	0.42
24:BA:826:U:OP1	24:BA:2428:G:OP1	2.36	0.42
24:BA:975:G:C6	24:BA:976:C:C5	3.07	0.42
24:BA:996:A:C5	24:BA:1160:G:C2	3.07	0.42
25:BB:102:G:N3	46:BY:73:GLN:NE2	2.47	0.42
25:BB:24:G:H21	25:BB:27:C:H42	1.59	0.42
25:BB:37:C:C4	25:BB:38:C:O2	2.71	0.42
27:BD:143:HIS:CE1	27:BD:193:VAL:O	2.72	0.42
27:BD:276:LYS:HE3	27:BD:276:LYS:HB3	1.90	0.42
27:BD:83:GLU:O	27:BD:92:ILE:HG23	2.19	0.42
28:BE:120:TRP:CZ2	28:BE:122:PHE:O	2.72	0.42
28:BE:13:ARG:CZ	28:BE:20:ALA:CB	2.77	0.42
28:BE:199:ARG:O	28:BE:200:GLU:CD	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:4:ILE:O	28:BE:27:LEU:HB2	2.19	0.42
28:BE:4:ILE:HD11	28:BE:76:ARG:NH1	2.32	0.42
29:BF:36:VAL:CG1	29:BF:183:VAL:HG11	2.41	0.42
29:BF:199:TRP:O	29:BF:200:GLU:C	2.56	0.42
29:BF:30:PRO:HG2	29:BF:31:HIS:N	2.31	0.42
29:BF:46:ARG:CA	29:BF:46:ARG:NE	2.82	0.42
29:BF:64:ILE:HG21	29:BF:78:ILE:HG21	2.01	0.42
29:BF:43:LYS:HG3	29:BF:99:TYR:H	1.79	0.42
15:AP:6:GLY:HA2	30:BG:114:ILE:CD1	2.49	0.42
30:BG:131:TYR:CE1	30:BG:158:ALA:HA	2.53	0.42
30:BG:40:ASN:ND2	30:BG:90:LEU:O	2.52	0.42
30:BG:71:THR:O	30:BG:88:ILE:CG1	2.63	0.42
31:BH:82:GLY:O	31:BH:83:TYR:CB	2.51	0.42
33:BL:115:LEU:HD11	33:BL:122:ALA:CB	2.48	0.42
33:BL:132:ARG:NH2	33:BL:138:VAL:CG1	2.82	0.42
34:BM:126:PRO:O	34:BM:127:ASP:CG	2.57	0.42
34:BM:55:VAL:HG22	34:BM:123:TYR:O	2.17	0.42
35:BN:28:SER:O	35:BN:29:ASN:ND2	2.52	0.42
35:BN:86:ILE:HG22	35:BN:87:ILE:C	2.39	0.42
35:BN:86:ILE:CG2	35:BN:90:GLN:HA	2.49	0.42
36:BO:114:ILE:N	36:BO:114:ILE:CD1	2.82	0.42
36:BO:67:MET:C	36:BO:68:GLN:NE2	2.73	0.42
24:BA:636:G:H22	36:BO:75:ILE:HG23	1.79	0.42
36:BO:76:LYS:NZ	36:BO:96:THR:CG2	2.74	0.42
37:BP:25:ASP:OD1	37:BP:101:ARG:NH1	2.52	0.42
37:BP:116:GLU:OE1	37:BP:119:ARG:CD	2.65	0.42
37:BP:122:GLY:CA	37:BP:125:LEU:HD12	2.47	0.42
37:BP:11:LYS:CG	37:BP:12:GLN:H	2.32	0.42
37:BP:42:ILE:HD11	37:BP:46:GLN:NE2	2.33	0.42
37:BP:51:ARG:HH22	37:BP:63:LYS:NZ	2.17	0.42
37:BP:78:PRO:C	37:BP:79:LEU:HG	2.39	0.42
24:BA:1649:G:N3	38:BQ:107:ASP:HB2	2.34	0.42
38:BQ:84:ALA:O	38:BQ:85:PRO:C	2.57	0.42
24:BA:2296:U:C5	39:BR:5:THR:HA	2.54	0.42
35:BN:79:PHE:HE1	40:BS:106:SER:CB	2.32	0.42
40:BS:6:LEU:CD2	40:BS:7:ILE:HG23	2.48	0.42
41:BT:102:GLU:CB	41:BT:105:VAL:CG1	2.97	0.42
41:BT:39:LEU:O	41:BT:40:PHE:C	2.56	0.42
42:BU:13:ARG:CA	42:BU:13:ARG:HE	2.20	0.42
42:BU:52:VAL:HG13	42:BU:56:SER:OG	2.19	0.42
42:BU:28:GLU:CD	42:BU:94:LEU:HB2	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:19:LYS:O	42:BU:96:ILE:CD1	2.67	0.42
43:BV:43:GLY:HA2	43:BV:46:PHE:HB2	2.01	0.42
43:BV:59:VAL:HA	43:BV:63:ASP:CB	2.47	0.42
44:BW:12:VAL:HG12	44:BW:21:PHE:HZ	1.84	0.42
45:BX:47:LYS:HE2	45:BX:47:LYS:HB3	1.87	0.42
46:BY:43:GLU:O	46:BY:46:LYS:N	2.52	0.42
32:BK:102:SER:HA	32:BK:107:VAL:O	2.19	0.42
32:BK:66:GLU:O	32:BK:69:LYS:HE3	2.18	0.42
3:AD:10:G:N3	3:AD:10:G:H2'	2.34	0.42
26:BC:103:ILE:C	26:BC:105:ASP:N	2.71	0.42
26:BC:26:ALA:HB1	26:BC:185:LEU:CG	2.49	0.42
26:BC:49:ILE:HD11	26:BC:169:GLY:HA2	2.01	0.42
24:BA:2183:C:C2'	24:BA:2184:G:H8	2.13	0.42
18:AS:46:PRO:CG	18:AS:47:ASP:N	2.81	0.42
24:BA:363(B):G:H2'	24:BA:363(C):G:H8	1.84	0.42
1:AA:342:C:C4	1:AA:348:G:N1	2.87	0.42
39:BR:56:LEU:HD11	39:BR:59:LYS:CD	2.46	0.42
27:BD:112:GLN:N	27:BD:115:GLN:NE2	2.67	0.42
25:BB:-1:A:N7	25:BB:0:A:H1'	2.33	0.42
37:BP:76:LYS:HG2	37:BP:76:LYS:H	1.73	0.42
1:AA:1102:A:C4	1:AA:1103:C:C5	3.07	0.42
1:AA:1109:C:C2'	1:AA:1110:A:C8	2.90	0.42
1:AA:1207:G:C2	1:AA:1208:C:C6	3.08	0.42
1:AA:1300:G:C2	1:AA:1335:C:C2	3.07	0.42
1:AA:1309:G:C2	1:AA:1310:G:C8	3.07	0.42
1:AA:1357:A:C4	1:AA:1358:U:C5	3.07	0.42
1:AA:975:A:H1'	1:AA:1357:A:H2	1.85	0.42
1:AA:1372:U:O4	1:AA:1373:G:C6	2.72	0.42
1:AA:191(F):U:H6	1:AA:191(F):U:O5'	2.02	0.42
1:AA:196:A:H3'	1:AA:196:A:H8	1.82	0.42
1:AA:284:G:H2'	1:AA:285:G:O4'	2.19	0.42
1:AA:290:C:C2'	1:AA:291:C:H5'	2.49	0.42
1:AA:372:C:O2'	1:AA:373:A:OP2	2.29	0.42
1:AA:402:G:C6	1:AA:403:C:C4	3.07	0.42
1:AA:451:A:N7	1:AA:481:G:N1	2.67	0.42
1:AA:518:C:C5	1:AA:530:G:C5	3.07	0.42
1:AA:541:G:O2'	6:AG:42:GLN:HB3	2.19	0.42
1:AA:547:A:H4'	1:AA:548:G:C5'	2.49	0.42
1:AA:557:G:N1	1:AA:558:G:C2	2.88	0.42
1:AA:717:C:O2'	1:AA:718:G:OP2	2.35	0.42
1:AA:826:C:O5'	1:AA:826:C:H6	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:836:G:C6	1:AA:837:G:C5	3.07	0.42
1:AA:885:G:C2	1:AA:886:G:C5	3.06	0.42
1:AA:909:A:C2'	1:AA:910:C:C5'	2.90	0.42
1:AA:917:G:HO2'	1:AA:918:A:H5'	1.84	0.42
1:AA:96:G:C6	1:AA:97:U:N3	2.87	0.42
1:AA:991:U:C4	1:AA:1212:U:O2	2.73	0.42
4:AE:12:GLU:OE1	4:AE:12:GLU:O	2.37	0.42
4:AE:167:PRO:C	4:AE:169:LYS:N	2.73	0.42
4:AE:208:ILE:CA	4:AE:211:ILE:HD12	2.49	0.42
4:AE:22:LYS:HD2	4:AE:40:HIS:CE1	2.54	0.42
5:AF:142:MET:O	5:AF:145:GLY:O	2.37	0.42
5:AF:15:THR:CG2	5:AF:181:ASN:OD1	2.67	0.42
5:AF:28:GLN:C	5:AF:28:GLN:CD	2.78	0.42
5:AF:91:LEU:HD22	5:AF:98:ASN:HA	1.94	0.42
6:AG:128:VAL:CG1	6:AG:129:ASN:H	2.31	0.42
7:AH:149:GLU:O	7:AH:152:ARG:N	2.52	0.42
7:AH:20:GLN:O	7:AH:21:ALA:O	2.37	0.42
8:AI:77:ARG:HA	8:AI:80:ARG:NE	2.33	0.42
10:AK:11:THR:C	10:AK:13:ILE:H	2.23	0.42
10:AK:36:LEU:CA	10:AK:39:LEU:HB2	2.49	0.42
10:AK:48:TYR:HA	10:AK:60:ARG:O	2.19	0.42
11:AL:93:ARG:CZ	11:AL:97:LYS:HG2	2.49	0.42
11:AL:97:LYS:O	11:AL:100:GLY:CA	2.67	0.42
12:AM:53:PRO:O	12:AM:54:PHE:HB3	2.18	0.42
12:AM:5:ARG:HA	12:AM:73:ASP:CG	2.39	0.42
10:AK:91:ARG:HG3	14:AO:7:ILE:HD12	2.01	0.42
14:AO:68:ALA:HB1	14:AO:98:TYR:C	2.39	0.42
15:AP:90:LEU:HA	15:AP:93:ARG:HB3	1.99	0.42
16:AQ:14:PRO:C	16:AQ:16:PHE:H	2.22	0.42
18:AS:21:VAL:CG2	18:AS:34:GLU:CB	2.97	0.42
18:AS:58:TYR:O	18:AS:59:TRP:C	2.57	0.42
18:AS:70:ALA:O	18:AS:73:LEU:HB3	2.20	0.42
19:AT:54:GLY:O	19:AT:55:ASP:C	2.57	0.42
8:AI:48:LEU:CA	20:AU:78:LEU:HD23	2.49	0.42
22:AW:22:ARG:O	22:AW:23:ARG:C	2.57	0.42
22:AW:65:LYS:O	22:AW:66:ALA:C	2.57	0.42
22:AW:81:LYS:O	22:AW:84:LEU:HB3	2.19	0.42
48:B1:56:LEU:C	48:B1:58:VAL:N	2.72	0.42
51:B4:10:LYS:HB3	51:B4:10:LYS:HE2	1.68	0.42
38:BQ:33:ARG:NH2	51:B4:56:LYS:CG	2.81	0.42
52:B5:12:GLU:CG	52:B5:52:VAL:O	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:19:ARG:O	53:B6:20:ALA:C	2.57	0.42
24:BA:687:C:OP1	53:B6:2:LYS:HD2	2.18	0.42
53:B6:5:TRP:CE3	53:B6:5:TRP:HA	2.54	0.42
24:BA:108:U:C2	24:BA:109:G:C8	3.07	0.42
24:BA:1188:U:O2	24:BA:1189:A:H1'	2.16	0.42
24:BA:1189:A:H5''	36:BO:29:LYS:CD	2.45	0.42
24:BA:119:A:O2'	24:BA:120:U:C5'	2.66	0.42
24:BA:1225:C:OP2	42:BU:88:ARG:NH2	2.46	0.42
24:BA:1287:A:H3'	24:BA:1288:U:C6	2.54	0.42
24:BA:1289:C:C2	24:BA:1290:C:C5	3.07	0.42
24:BA:1340:U:O2'	24:BA:1394:U:O2'	2.32	0.42
24:BA:140:A:N3	24:BA:1408:C:H1'	2.34	0.42
24:BA:1437:C:H5''	24:BA:1437:C:C6	2.54	0.42
24:BA:1455:G:C6	24:BA:1456:G:C8	3.07	0.42
24:BA:1528:A:C8	24:BA:1529:A:C2	3.08	0.42
24:BA:1608:A:N1	24:BA:1611:C:C6	2.88	0.42
24:BA:1632:A:O5'	24:BA:1632:A:C8	2.63	0.42
24:BA:16:G:H5''	51:B4:17:ASP:CB	2.48	0.42
24:BA:1726:G:N2	24:BA:1733:G:N7	2.67	0.42
24:BA:1774:C:H5	24:BA:1775:U:C4	2.36	0.42
24:BA:1364:G:H5''	24:BA:1808:U:O2	2.20	0.42
24:BA:1815:A:C1'	24:BA:1817:G:C1'	2.97	0.42
24:BA:1903:G:N1	24:BA:1904:G:C5	2.87	0.42
24:BA:1903:G:C6	24:BA:1904:G:N7	2.87	0.42
24:BA:1914:C:N3	24:BA:1915:U:H5	2.13	0.42
24:BA:2025:C:C2'	24:BA:2026:C:C6	2.98	0.42
24:BA:2031:A:N6	24:BA:2498:C:H1'	2.32	0.42
24:BA:203:C:C5	24:BA:204:A:C5	3.07	0.42
24:BA:2052:G:O5'	28:BE:141:ILE:CG1	2.66	0.42
24:BA:2093:G:O4'	32:BK:29:TYR:HD2	1.99	0.42
24:BA:2331:G:C4'	47:BZ:42:GLY:HA3	2.49	0.42
24:BA:2416:C:OP1	36:BO:59:LEU:C	2.57	0.42
24:BA:2423:U:H1'	24:BA:2425:A:C5	2.54	0.42
24:BA:806:C:HO2'	24:BA:2445:G:C4'	2.32	0.42
24:BA:2472:G:C8	24:BA:2475:C:N4	2.87	0.42
24:BA:2488:A:C5	24:BA:2489:G:N7	2.87	0.42
24:BA:2595:G:N2	24:BA:2597:G:O5'	2.52	0.42
24:BA:2615:U:C1'	51:B4:7:PRO:CB	2.92	0.42
24:BA:261:G:C2'	24:BA:262:A:H5'	2.47	0.42
24:BA:2544:G:C5'	24:BA:2645:G:N7	2.56	0.42
24:BA:2660:A:OP1	31:BH:175:LYS:NZ	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(S):G:C2	24:BA:270(T):G:N7	2.87	0.42
24:BA:2754:U:O5'	24:BA:2754:U:C6	2.69	0.42
24:BA:2834:G:C6	24:BA:2879:C:N3	2.87	0.42
24:BA:2839:G:C2	24:BA:2840:C:N1	2.87	0.42
24:BA:344:G:H5''	24:BA:345:A:OP2	2.19	0.42
24:BA:360:G:N7	24:BA:361:G:C8	2.88	0.42
24:BA:270:A:N6	24:BA:370:G:C4	2.87	0.42
24:BA:415:A:C2	24:BA:416:C:C1'	3.02	0.42
24:BA:370:G:C6	24:BA:424:G:N7	2.87	0.42
24:BA:483:A:C2	24:BA:484:C:O4'	2.73	0.42
24:BA:53:A:N3	24:BA:53:A:H2'	2.34	0.42
24:BA:573:G:H22	24:BA:2029:G:N2	2.16	0.42
24:BA:641:C:H6	24:BA:642:G:O4'	2.03	0.42
24:BA:715:G:H2'	24:BA:716:A:O4'	2.19	0.42
24:BA:757:U:H2'	24:BA:758:C:O4'	2.19	0.42
24:BA:776:G:C8	24:BA:793:A:C2	3.07	0.42
24:BA:799:G:C4	24:BA:800:A:N7	2.87	0.42
24:BA:842:G:C6	24:BA:843:G:C5	3.07	0.42
24:BA:849:A:C4	24:BA:850:C:C6	3.07	0.42
24:BA:911:A:O4'	24:BA:2264:C:H4'	2.18	0.42
24:BA:957:A:N6	24:BA:959:A:N3	2.67	0.42
24:BA:819:A:C4	24:BA:973:A:H2	2.36	0.42
25:BB:6:C:O2'	25:BB:7:G:OP1	2.31	0.42
25:BB:87:G:N1	25:BB:90:C:C4	2.88	0.42
27:BD:155:LEU:O	27:BD:157:ARG:HG2	2.19	0.42
24:BA:705:A:H2	27:BD:16:MET:HE2	1.84	0.42
27:BD:159:ALA:HB2	27:BD:198:ASN:HB3	2.01	0.42
27:BD:28:GLU:O	27:BD:29:PRO:C	2.55	0.42
28:BE:108:SER:O	28:BE:109:LYS:C	2.57	0.42
28:BE:180:ASN:HD22	28:BE:180:ASN:N	2.16	0.42
28:BE:187:ALA:C	28:BE:189:PRO:HD3	2.39	0.42
28:BE:53:PRO:HG3	28:BE:75:VAL:HG21	1.94	0.42
24:BA:2811:G:H5''	28:BE:60:ASN:ND2	2.34	0.42
28:BE:81:ILE:CG2	28:BE:82:ARG:HG2	2.48	0.42
29:BF:41:LEU:HD13	29:BF:44:ARG:HH12	1.83	0.42
30:BG:51:ARG:HH21	30:BG:51:ARG:HG3	1.83	0.42
24:BA:2746:U:H4'	31:BH:138:LYS:HG2	2.01	0.42
33:BL:102:GLU:O	33:BL:106:GLU:HG3	2.19	0.42
24:BA:558:G:C5'	34:BM:109:LYS:HD3	2.46	0.42
34:BM:56:ASN:CG	34:BM:126:PRO:O	2.57	0.42
28:BE:152:LYS:CE	34:BM:77:GLY:O	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:110:GLY:O	35:BN:111:PHE:CB	2.66	0.42
35:BN:117:LEU:HD23	35:BN:118:ALA:CA	2.45	0.42
35:BN:98:VAL:HG12	35:BN:122:LEU:HD21	1.99	0.42
36:BO:117:GLU:N	36:BO:117:GLU:CD	2.72	0.42
36:BO:93:GLY:CA	36:BO:96:THR:HG23	2.49	0.42
24:BA:910:A:N6	37:BP:15:GLY:O	2.51	0.42
38:BQ:97:VAL:HG22	38:BQ:114:VAL:HG21	2.02	0.42
38:BQ:58:GLY:O	38:BQ:59:ASP:OD1	2.37	0.42
38:BQ:78:LYS:HD2	38:BQ:78:LYS:HA	1.53	0.42
25:BB:115:G:C4'	39:BR:50:SER:HB3	2.45	0.42
40:BS:100:TYR:O	40:BS:101:PHE:HB2	2.18	0.42
40:BS:109:GLU:C	40:BS:110:ILE:O	2.55	0.42
40:BS:4:GLY:O	40:BS:5:ALA:C	2.57	0.42
40:BS:65:LYS:HZ3	40:BS:75:ILE:HD13	1.84	0.42
40:BS:76:PHE:CZ	40:BS:78:LEU:HD21	2.54	0.42
41:BT:35:ALA:O	41:BT:38:THR:OG1	2.37	0.42
41:BT:49:HIS:CA	41:BT:52:ARG:NH2	2.82	0.42
42:BU:3:ALA:HA	42:BU:44:LYS:CD	2.48	0.42
43:BV:101:SER:O	43:BV:102:HIS:HD2	2.02	0.42
43:BV:27:LYS:N	43:BV:71:VAL:CG1	2.77	0.42
45:BX:14:LEU:HD21	45:BX:19:LYS:HB2	2.00	0.42
45:BX:33:LYS:O	45:BX:34:LYS:O	2.37	0.42
45:BX:28:LYS:CB	45:BX:35:TYR:HB3	2.49	0.42
24:BA:484:C:OP1	45:BX:48:ALA:CB	2.66	0.42
45:BX:72:VAL:O	45:BX:73:ARG:HG3	2.18	0.42
46:BY:99:TYR:HD2	46:BY:124:ILE:HG21	1.83	0.42
47:BZ:70:GLN:O	47:BZ:72:ARG:HG2	2.19	0.42
47:BZ:76:GLY:N	47:BZ:78:TYR:HE1	2.16	0.42
32:BK:132:PRO:CD	32:BK:137:PRO:HA	2.34	0.42
24:BA:2124:G:O6	24:BA:2125:G:N2	2.52	0.42
24:BA:2168:G:N2	24:BA:2170:A:C3'	2.74	0.42
26:BC:104:LEU:HD22	26:BC:130:ILE:HG12	2.01	0.42
26:BC:181:PRO:O	26:BC:184:LYS:HB2	2.19	0.42
26:BC:204:ALA:HB2	26:BC:208:PHE:CE1	2.54	0.42
32:BK:57:ARG:NH1	32:BK:57:ARG:CG	2.82	0.42
32:BK:133:HIS:CE1	32:BK:134:PRO:HG2	2.54	0.42
8:AI:28:ARG:HD3	8:AI:28:ARG:H	1.84	0.42
31:BH:54:ARG:HB3	31:BH:54:ARG:HH21	1.85	0.42
1:AA:1066:C:C2'	1:AA:1067:A:C8	3.02	0.42
1:AA:1228:C:H4'	15:AP:115:LYS:O	2.19	0.42
1:AA:1350:A:H2'	1:AA:1351:U:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1365:G:C2	1:AA:1366:C:C2	3.08	0.42
1:AA:1411:C:N3	1:AA:1412:C:C5	2.87	0.42
1:AA:1438:G:H2'	1:AA:1439:C:H6	1.84	0.42
1:AA:1446:A:C2'	1:AA:1447:G:O5'	2.67	0.42
1:AA:1502:A:C6	1:AA:1504:G:N2	2.87	0.42
1:AA:172:A:N7	1:AA:174:C:C4	2.87	0.42
1:AA:187:C:H1'	1:AA:191(A):G:N2	2.34	0.42
1:AA:225:C:C2'	1:AA:226:G:O5'	2.67	0.42
1:AA:44:G:H2'	1:AA:45:U:H5'	2.00	0.42
1:AA:373:A:C8	1:AA:482:A:N7	2.88	0.42
1:AA:406:G:C8	1:AA:495:A:C2	3.07	0.42
1:AA:562:C:C6	1:AA:884:U:C5	3.08	0.42
1:AA:599:C:O3'	10:AK:96:GLY:HA3	2.20	0.42
1:AA:628:G:C2'	1:AA:629:G:H8	2.08	0.42
1:AA:641:U:O2	1:AA:641:U:H2'	2.18	0.42
1:AA:688:G:O2'	1:AA:689:C:H5'	2.19	0.42
1:AA:799:G:H3'	1:AA:800:G:C8	2.54	0.42
1:AA:853:G:H2'	1:AA:854:G:H8	1.85	0.42
1:AA:923:A:P	7:AH:21:ALA:HB2	2.59	0.42
1:AA:980:C:C4	1:AA:981:U:C2	3.07	0.42
1:AA:986:A:C5	1:AA:987:G:N7	2.87	0.42
2:AC:11:A:N1	2:AC:25:C:N3	2.67	0.42
2:AC:44:A:N3	2:AC:45:G:O4'	2.52	0.42
5:AF:34:LEU:C	5:AF:38:ARG:HD3	2.40	0.42
6:AG:102:ASP:HB2	6:AG:136:PRO:O	2.19	0.42
6:AG:159:ARG:HH11	6:AG:159:ARG:HG2	1.84	0.42
6:AG:201:GLN:O	6:AG:202:LEU:C	2.58	0.42
7:AH:105:VAL:HG11	7:AH:132:ALA:HA	2.01	0.42
7:AH:41:VAL:HG21	7:AH:113:ALA:CB	2.49	0.42
7:AH:41:VAL:HG21	7:AH:113:ALA:HB2	2.01	0.42
7:AH:15:ARG:HD2	7:AH:16:THR:N	2.35	0.42
7:AH:46:GLY:N	7:AH:58:ALA:HB2	2.34	0.42
7:AH:80:ILE:CD1	7:AH:80:ILE:N	2.70	0.42
8:AI:2:ARG:CD	8:AI:69:GLU:HG2	2.49	0.42
9:AJ:49:ILE:HG22	9:AJ:125:MET:HE1	2.02	0.42
9:AJ:136:LYS:HA	9:AJ:139:GLU:OE1	2.19	0.42
9:AJ:50:ILE:O	9:AJ:54:THR:O	2.37	0.42
10:AK:109:ILE:HG12	10:AK:137:VAL:N	2.31	0.42
12:AM:16:LEU:HD13	12:AM:94:VAL:CG2	2.48	0.42
10:AK:90:GLY:HA3	14:AO:7:ILE:HG13	2.01	0.42
15:AP:110:ARG:NH1	15:AP:110:ARG:HB2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:20:VAL:HG13	18:AS:21:VAL:N	2.29	0.42
18:AS:58:TYR:O	18:AS:61:SER:HB3	2.19	0.42
18:AS:66:PRO:HD2	18:AS:71:ARG:HH22	1.79	0.42
19:AT:50:LYS:CG	19:AT:51:TYR:N	2.74	0.42
19:AT:18:THR:HA	19:AT:69:LYS:HZ3	1.85	0.42
8:AI:91:VAL:CG2	20:AU:72:ARG:HH12	2.33	0.42
20:AU:79:LEU:HA	20:AU:80:PRO:HD2	1.74	0.42
21:AV:24:ALA:C	21:AV:26:GLY:N	2.70	0.42
21:AV:19:VAL:CG2	21:AV:43:GLU:CD	2.87	0.42
21:AV:63:THR:H	21:AV:66:MET:CG	2.32	0.42
22:AW:50:GLU:HB2	22:AW:99:LEU:CB	2.49	0.42
48:B1:12:SER:N	48:B1:15:GLU:OE1	2.52	0.42
48:B1:1:MET:SD	48:B1:2:ARG:NH1	2.92	0.42
50:B3:5:ILE:HG21	50:B3:7:PRO:O	2.18	0.42
24:BA:2046:G:H4'	51:B4:22:HIS:HB3	2.01	0.42
24:BA:2285:C:H3'	52:B5:27:LYS:NZ	2.34	0.42
53:B6:18:PHE:O	53:B6:19:ARG:C	2.56	0.42
24:BA:1309:G:H4'	53:B6:7:PRO:HG2	2.02	0.42
54:B7:39:LYS:HB3	54:B7:39:LYS:HZ2	1.84	0.42
55:B8:10:ILE:HD11	55:B8:34:GLN:NE2	2.33	0.42
24:BA:1190:G:OP2	36:BO:30:THR:CA	2.50	0.42
24:BA:551:G:C4'	24:BA:1220:A:C2	3.01	0.42
24:BA:1287:A:N3	24:BA:1287:A:C2'	2.82	0.42
24:BA:1341:U:OP2	24:BA:1397:U:C4	2.72	0.42
24:BA:1342:A:C8	24:BA:1601:G:O6	2.72	0.42
24:BA:1379:A:P	24:BA:1379:A:C2	3.12	0.42
24:BA:1392:A:H2'	24:BA:1393:A:N9	2.33	0.42
24:BA:1419:A:C5	24:BA:1421:G:C6	3.06	0.42
24:BA:1451:C:O2	24:BA:1451:C:C2'	2.65	0.42
24:BA:1473:G:O6	24:BA:1519:G:C4	2.72	0.42
24:BA:1472:A:N7	24:BA:1474:C:C4	2.87	0.42
24:BA:1652:A:C5	24:BA:1653:G:N3	2.88	0.42
24:BA:1673:U:O2'	24:BA:1674:G:OP1	2.37	0.42
1:AA:1429:C:H1'	24:BA:1703:G:O2'	2.19	0.42
24:BA:1710:C:N3	24:BA:1711:C:C5	2.87	0.42
24:BA:1743:G:OP1	24:BA:1743:G:C4'	2.68	0.42
24:BA:1803:A:H61	24:BA:1814:G:C2'	2.31	0.42
24:BA:1862:G:HO2'	24:BA:1863:G:H8	1.68	0.42
24:BA:1879:C:H2'	24:BA:1880:C:C6	2.54	0.42
24:BA:1920:C:C6	24:BA:1920:C:C3'	3.02	0.42
24:BA:1268:A:C5	24:BA:2013:A:C6	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2073:C:H2'	24:BA:2074:U:H6	1.83	0.42
24:BA:2206:C:C2	24:BA:2207:C:C5	3.06	0.42
24:BA:2092:U:C4	24:BA:2227:A:N6	2.87	0.42
24:BA:2348:U:C2'	24:BA:2349:G:H5'	2.48	0.42
24:BA:2350:C:HO2'	24:BA:2351:G:C4'	2.32	0.42
24:BA:2366:A:N6	24:BA:2367:G:N3	2.67	0.42
24:BA:2377:A:C4	24:BA:2378:A:N7	2.87	0.42
24:BA:2415:G:C4	24:BA:2416:C:C5	3.07	0.42
24:BA:2482:G:N2	24:BA:2483:C:H1'	2.34	0.42
24:BA:2504:U:C2'	24:BA:2505:G:H5'	2.49	0.42
24:BA:2547:U:C5	24:BA:2566:A:C5	3.07	0.42
24:BA:2592:G:O6	24:BA:2593:U:C4	2.73	0.42
24:BA:2628:C:HO2'	24:BA:2779:U:HO2'	1.67	0.42
24:BA:2638:G:H2'	24:BA:2639:A:C8	2.55	0.42
24:BA:2659:G:H3'	24:BA:2660:A:H5''	2.00	0.42
24:BA:270(B):A:O4'	24:BA:270(C):C:H5	2.02	0.42
24:BA:2752:C:C5	24:BA:2752:C:OP1	2.72	0.42
24:BA:304:G:C6	24:BA:314:A:C6	3.07	0.42
24:BA:371:A:H2'	24:BA:371:A:N3	2.32	0.42
24:BA:3:U:O2'	24:BA:4:C:H5'	2.20	0.42
24:BA:414:C:O2	24:BA:1864:U:C4'	2.68	0.42
24:BA:416:C:C5	24:BA:417:C:N4	2.88	0.42
24:BA:429:A:C2	24:BA:430:G:N1	2.88	0.42
24:BA:484:C:O2'	24:BA:485:C:C5'	2.68	0.42
24:BA:493:G:N3	24:BA:494:G:C8	2.87	0.42
24:BA:503:A:N3	24:BA:505:A:N7	2.67	0.42
24:BA:580:C:N4	24:BA:581:C:H41	2.17	0.42
24:BA:58:G:N3	24:BA:58:G:H2'	2.34	0.42
24:BA:615:G:O2'	24:BA:616:A:N7	2.49	0.42
24:BA:618(A):C:O2'	24:BA:619:G:H5'	2.19	0.42
24:BA:65:C:C2	24:BA:66:C:H5	2.38	0.42
24:BA:668:G:H3'	24:BA:669:G:C5'	2.49	0.42
24:BA:691:C:O5'	24:BA:691:C:H6	2.02	0.42
24:BA:696:G:C2	24:BA:697:C:C5	3.08	0.42
24:BA:706:A:H2'	24:BA:707:G:C8	2.35	0.42
24:BA:71:A:C2'	24:BA:72:U:OP2	2.67	0.42
24:BA:750:A:N3	24:BA:750:A:H2'	2.32	0.42
24:BA:947:G:O5'	24:BA:947:G:H8	2.01	0.42
25:BB:29:A:H1'	25:BB:56:G:N2	2.34	0.42
27:BD:124:PRO:CD	27:BD:129:ASN:ND2	2.79	0.42
27:BD:13:ARG:O	27:BD:14:ARG:CZ	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:157:ARG:HB3	27:BD:160:GLY:C	2.39	0.42
27:BD:201:HIS:HD2	27:BD:202:LYS:CE	2.32	0.42
27:BD:39:LYS:CD	27:BD:39:LYS:N	2.65	0.42
27:BD:88:ARG:HE	27:BD:88:ARG:CA	2.29	0.42
28:BE:148:GLY:O	28:BE:149:ARG:CG	2.67	0.42
28:BE:51:PHE:O	28:BE:52:LEU:CB	2.68	0.42
28:BE:55:ASN:C	28:BE:55:ASN:ND2	2.70	0.42
28:BE:54:GLN:NE2	28:BE:56:PRO:HD2	2.24	0.42
24:BA:442:G:C4'	29:BF:46:ARG:HD3	2.50	0.42
24:BA:37:C:O2'	29:BF:50:SER:CB	2.65	0.42
29:BF:62:ARG:CG	29:BF:63:LYS:HG2	2.49	0.42
29:BF:78:ILE:C	29:BF:80:ALA:N	2.64	0.42
30:BG:27:ASN:HB3	30:BG:29:TRP:CZ2	2.54	0.42
30:BG:39:ILE:CB	30:BG:157:ILE:HG13	2.49	0.42
30:BG:48:GLU:O	30:BG:49:ASP:HB2	2.19	0.42
31:BH:119:GLU:CA	31:BH:140:LYS:HZ1	2.33	0.42
31:BH:33:LEU:HD23	31:BH:34:GLU:N	2.33	0.42
33:BL:79:ARG:HA	33:BL:82:ALA:HB3	2.01	0.42
34:BM:129:PRO:O	34:BM:130:HIS:C	2.57	0.42
35:BN:23:ARG:NH1	35:BN:23:ARG:CG	2.81	0.42
36:BO:122:PRO:O	36:BO:123:LEU:CB	2.67	0.42
37:BP:109:VAL:HG12	37:BP:111:GLU:H	1.84	0.42
37:BP:74:TYR:CE1	37:BP:92:GLY:C	2.92	0.42
37:BP:41:TRP:HB3	37:BP:95:ALA:O	2.19	0.42
38:BQ:33:ARG:CA	38:BQ:115:GLU:HB3	2.48	0.42
38:BQ:67:LEU:CD2	38:BQ:72:ASP:N	2.82	0.42
38:BQ:73:VAL:HA	38:BQ:76:VAL:CB	2.48	0.42
39:BR:49:VAL:CG2	39:BR:50:SER:H	2.31	0.42
39:BR:62:LYS:HB3	39:BR:65:VAL:CA	2.49	0.42
40:BS:35:LYS:NZ	40:BS:86:ILE:HD11	2.34	0.42
40:BS:93:ARG:NE	40:BS:93:ARG:CA	2.82	0.42
41:BT:57:PHE:HD2	41:BT:61:TRP:CD1	2.37	0.42
42:BU:16:PRO:HB3	42:BU:100:ARG:CZ	2.50	0.42
42:BU:69:LYS:N	42:BU:92:THR:CB	2.79	0.42
43:BV:21:VAL:HA	43:BV:24:ILE:CG1	2.50	0.42
43:BV:55:ALA:O	43:BV:58:ALA:CB	2.62	0.42
44:BW:52:VAL:HB	44:BW:83:VAL:O	2.19	0.42
44:BW:78:LYS:HE3	44:BW:78:LYS:HB2	1.88	0.42
45:BX:83:THR:HG22	45:BX:84:ARG:HE	1.83	0.42
46:BY:56:VAL:HG21	46:BY:135:GLU:OE1	2.19	0.42
26:BC:196:LEU:O	26:BC:197:GLU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:5:LYS:O	26:BC:8:ARG:N	2.49	0.42
26:BC:62:VAL:O	26:BC:64:LEU:N	2.52	0.42
24:BA:1418:G:C4	24:BA:1581:G:N2	2.82	0.42
24:BA:2194:G:C2	24:BA:2195:C:N4	2.88	0.42
24:BA:2195:C:O2'	24:BA:2196:C:C4'	2.67	0.42
1:AA:748:C:H6	1:AA:748:C:O5'	1.95	0.42
24:BA:2100:G:C4	24:BA:2190:G:C2	3.07	0.42
1:AA:217:C:H6	1:AA:217:C:O5'	2.01	0.42
14:AO:126:LYS:HD3	14:AO:128:ALA:H	1.84	0.42
31:BH:54:ARG:CB	31:BH:54:ARG:NH2	2.82	0.42
1:AA:1057:G:H2'	1:AA:1058:G:C8	2.54	0.42
1:AA:1196:U:C6	1:AA:1196:U:C3'	3.02	0.42
1:AA:1205:U:O2'	5:AF:194:GLY:CA	2.67	0.42
1:AA:120:A:C6	1:AA:122:G:C2	3.07	0.42
1:AA:125:U:C2'	1:AA:126:G:C8	2.90	0.42
1:AA:1253:G:C6	1:AA:1285:A:N6	2.87	0.42
1:AA:1303:C:O2	1:AA:1303:C:H2'	2.19	0.42
1:AA:1365:G:C4	1:AA:1366:C:C5	3.07	0.42
1:AA:1353:G:N3	1:AA:1370:G:N2	2.67	0.42
1:AA:1431:C:N4	1:AA:1469:G:H1	2.17	0.42
1:AA:1516:G:N2	1:AA:1518:A:H3'	2.35	0.42
1:AA:262:A:H5'	22:AW:74:LYS:CG	2.44	0.42
1:AA:303:A:HO2'	1:AA:555:C:HO2'	1.67	0.42
1:AA:305:G:O2'	1:AA:306:G:OP1	2.37	0.42
1:AA:320:C:O2'	1:AA:1435:G:O2'	2.31	0.42
1:AA:397:A:H2'	1:AA:398:C:OP2	2.20	0.42
1:AA:411:A:N6	1:AA:413:G:C2	2.87	0.42
1:AA:512:U:H2'	1:AA:513:C:C6	2.55	0.42
1:AA:596:C:O2	1:AA:597:G:C8	2.72	0.42
1:AA:766:A:C2	1:AA:767:A:H1'	2.55	0.42
1:AA:697:U:C4'	1:AA:786:G:O2'	2.67	0.42
1:AA:87:A:N7	1:AA:88:C:N3	2.67	0.42
1:AA:959:A:C3'	1:AA:960:U:C5'	2.97	0.42
1:AA:983:A:C2	1:AA:984:C:C5	3.07	0.42
2:AC:35:A:H2'	2:AC:36:U:O5'	2.19	0.42
2:AC:4:G:C6	2:AC:70:G:C6	3.07	0.42
4:AE:193:ASP:OD2	4:AE:196:LEU:CD1	2.66	0.42
5:AF:185:GLY:O	5:AF:199:LYS:HA	2.19	0.42
5:AF:50:ALA:HB1	5:AF:70:VAL:HG11	2.02	0.42
6:AG:148:VAL:O	6:AG:153:ARG:CG	2.66	0.42
6:AG:43:HIS:C	6:AG:45:GLN:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:62:GLN:C	6:AG:66:ARG:HD2	2.40	0.42
7:AH:144:THR:HB	7:AH:146:ALA:CB	2.45	0.42
7:AH:78:HIS:CG	10:AK:107:LEU:CD1	2.97	0.42
7:AH:78:HIS:HB3	10:AK:107:LEU:HD11	2.01	0.42
8:AI:96:PRO:HD2	20:AU:32:ARG:NE	2.33	0.42
9:AJ:139:GLU:O	9:AJ:143:ARG:HD2	2.20	0.42
9:AJ:76:ARG:HB2	9:AJ:156:TRP:NE1	2.34	0.42
10:AK:98:LYS:HZ3	10:AK:98:LYS:C	2.23	0.42
11:AL:15:ALA:HB2	11:AL:73:GLN:O	2.19	0.42
11:AL:45:ALA:O	11:AL:78:LYS:CG	2.67	0.42
11:AL:7:THR:C	11:AL:80:GLY:HA2	2.39	0.42
12:AM:33:GLN:O	12:AM:34:VAL:HG23	2.18	0.42
13:AN:66:LEU:O	13:AN:70:LYS:HD2	2.19	0.42
14:AO:58:VAL:HG12	14:AO:59:ARG:N	2.34	0.42
15:AP:125:ARG:O	15:AP:126:LYS:HB2	2.18	0.42
16:AQ:44:LEU:CG	16:AQ:45:ARG:N	2.82	0.42
18:AS:5:ARG:NH2	18:AS:23:ASP:O	2.52	0.42
18:AS:35:LYS:CD	18:AS:36:ILE:N	2.77	0.42
20:AU:58:LEU:CD2	20:AU:62:GLU:HG2	2.49	0.42
50:B3:42:PHE:O	50:B3:61:ARG:NH1	2.51	0.42
50:B3:51:ASP:C	50:B3:52:THR:OG1	2.53	0.42
50:B3:5:ILE:CG2	50:B3:8:LYS:O	2.58	0.42
24:BA:2347:C:OP1	52:B5:24:GLU:OE2	2.37	0.42
54:B7:14:VAL:O	54:B7:15:LYS:HG3	2.18	0.42
54:B7:39:LYS:HZ2	54:B7:39:LYS:CB	2.32	0.42
24:BA:1000:A:C6	24:BA:1155:A:N7	2.87	0.42
24:BA:1010:A:H8	24:BA:1010:A:OP2	2.02	0.42
24:BA:1180:C:H6	24:BA:1180:C:OP2	2.02	0.42
24:BA:942:G:C4'	24:BA:1189:A:H2	2.32	0.42
24:BA:1229:G:C6	24:BA:1230:C:N3	2.88	0.42
24:BA:1255:U:C3'	24:BA:1256:G:H5''	2.50	0.42
24:BA:1296:G:H2'	24:BA:1297:C:C6	2.51	0.42
24:BA:1389:G:O2'	24:BA:1390:U:H5'	2.20	0.42
24:BA:1448:G:C2'	24:BA:1449:A:H8	2.32	0.42
24:BA:1472:A:H62	24:BA:1474:C:N4	2.18	0.42
24:BA:1471:A:C8	24:BA:1521:G:N2	2.86	0.42
24:BA:1525:G:C6	24:BA:1526:G:C6	3.08	0.42
24:BA:1429:G:C4	24:BA:1568:G:C2	3.07	0.42
24:BA:1749:A:C5	24:BA:1750:G:C8	3.08	0.42
24:BA:1761:C:C6	24:BA:1761:C:H3'	2.50	0.42
24:BA:1794:U:O4'	24:BA:1900:A:C5	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1818:U:OP2	27:BD:88:ARG:CZ	2.68	0.42
24:BA:1893:C:C2'	24:BA:1894:C:H5'	2.49	0.42
24:BA:1908:C:O2	24:BA:1909:C:C6	2.73	0.42
24:BA:1967:C:N3	24:BA:1968:G:N3	2.68	0.42
24:BA:2007:C:H2'	24:BA:2008:C:H5'	2.02	0.42
24:BA:2013:A:C6	24:BA:2014:A:C2	3.07	0.42
24:BA:2092:U:H2'	24:BA:2092:U:O2	2.19	0.42
24:BA:2210:G:C2'	24:BA:2211:G:OP2	2.67	0.42
24:BA:221:A:C2	24:BA:233:A:C4	3.07	0.42
24:BA:2199:A:C2	24:BA:2225:A:C2	3.08	0.42
24:BA:2226:C:HO2'	24:BA:2227:A:H5'	1.84	0.42
24:BA:2228:G:C6	24:BA:2229:C:C2	3.08	0.42
24:BA:962:G:N2	24:BA:2250:G:N2	2.55	0.42
24:BA:2312:U:OP2	30:BG:86:MET:CG	2.67	0.42
24:BA:2329:G:H2'	24:BA:2330:G:O4'	2.20	0.42
24:BA:2387:U:C1'	47:BZ:41:ARG:NH2	2.83	0.42
24:BA:2250:G:C2'	24:BA:2496:C:H5'	2.44	0.42
24:BA:250:G:C2'	24:BA:251:A:O5'	2.67	0.42
24:BA:2510:C:C4	24:BA:2511:U:C4	3.07	0.42
24:BA:2522:U:C6	24:BA:2522:U:C5'	2.98	0.42
24:BA:2537:U:O4	24:BA:2538:C:N4	2.52	0.42
24:BA:2546:U:O4'	24:BA:2565:A:C2	2.72	0.42
24:BA:2572:A:C4'	24:BA:2573:C:OP1	2.65	0.42
24:BA:2595:G:H8	24:BA:2595:G:O5'	2.03	0.42
24:BA:2612:C:O2'	51:B4:4:HIS:CB	2.56	0.42
24:BA:2716:U:H2'	24:BA:2717:G:O5'	2.19	0.42
24:BA:2778:A:C5'	24:BA:2779:U:OP2	2.67	0.42
24:BA:278:A:OP1	24:BA:278:A:O4'	2.37	0.42
24:BA:2824:C:N3	24:BA:2825:C:C1'	2.82	0.42
24:BA:2864:G:C4	24:BA:2865:U:C4	3.08	0.42
24:BA:2872:G:C2	24:BA:2873:A:N6	2.88	0.42
24:BA:302:C:C2'	24:BA:303:U:O5'	2.68	0.42
24:BA:29:U:O2	24:BA:30:G:C5	2.73	0.42
24:BA:374:A:C3'	24:BA:375:C:H6	2.32	0.42
24:BA:37:C:H2'	24:BA:38:A:H8	1.83	0.42
24:BA:416:C:C3'	24:BA:416:C:C6	3.01	0.42
24:BA:462:C:C4	24:BA:468:G:C2	3.07	0.42
24:BA:482:A:H2'	24:BA:483:A:OP2	2.18	0.42
24:BA:483:A:C4	24:BA:484:C:C6	3.08	0.42
24:BA:515:A:H8	24:BA:515:A:C5'	2.30	0.42
24:BA:50:U:C2'	24:BA:51:G:OP1	2.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:545:G:O5'	24:BA:545:G:H8	2.01	0.42
24:BA:558:G:H2'	24:BA:558:G:N3	2.35	0.42
24:BA:562:U:O2'	24:BA:563:G:C5'	2.68	0.42
24:BA:57:C:H6	24:BA:57:C:O5'	2.03	0.42
24:BA:591:C:N4	24:BA:592:G:C6	2.86	0.42
24:BA:60:G:H8	24:BA:63:U:C5	2.38	0.42
24:BA:648:G:C5	24:BA:649:G:N7	2.88	0.42
24:BA:650:C:O2'	24:BA:651:G:H5'	2.19	0.42
24:BA:465:G:N2	24:BA:684:G:O4'	2.52	0.42
24:BA:724:U:C5	24:BA:725:G:N7	2.87	0.42
24:BA:774:A:C5'	24:BA:778:G:C4'	2.94	0.42
24:BA:786:C:C3'	24:BA:787:U:H5'	2.34	0.42
24:BA:794:G:C4	24:BA:795:C:C5	3.07	0.42
24:BA:846:C:HO2'	24:BA:847:U:P	2.30	0.42
24:BA:864:G:O2'	24:BA:865:C:H1'	2.20	0.42
24:BA:902:C:C2	24:BA:903:C:C5	3.07	0.42
24:BA:958:U:O2'	24:BA:959:A:O5'	2.38	0.42
24:BA:962:G:C4	24:BA:963:U:C5	3.06	0.42
25:BB:54:G:O2'	25:BB:55:U:C5'	2.67	0.42
25:BB:8:U:C2'	25:BB:9:G:H8	2.32	0.42
27:BD:177:LEU:HG	27:BD:181:GLU:O	2.19	0.42
27:BD:20:ASP:O	27:BD:21:PHE:CB	2.67	0.42
27:BD:246:PRO:CD	27:BD:250:TRP:CB	2.69	0.42
27:BD:92:ILE:CG1	27:BD:93:ALA:N	2.82	0.42
28:BE:92:THR:HA	28:BE:95:ILE:CG2	2.49	0.42
29:BF:135:LYS:HD3	29:BF:136:THR:N	2.34	0.42
30:BG:39:ILE:CD1	30:BG:39:ILE:N	2.70	0.42
31:BH:148:ILE:O	31:BH:149:ARG:C	2.57	0.42
31:BH:7:LEU:C	31:BH:51:ARG:CZ	2.88	0.42
31:BH:6:ARG:N	31:BH:7:LEU:HD23	2.34	0.42
24:BA:556:G:N2	34:BM:45:ASN:ND2	2.67	0.42
34:BM:86:PRO:C	34:BM:89:LYS:NZ	2.73	0.42
35:BN:120:GLU:HB3	35:BN:121:VAL:H	1.42	0.42
35:BN:2:ILE:HB	35:BN:32:TYR:CA	2.49	0.42
35:BN:48:PRO:O	35:BN:49:ARG:C	2.58	0.42
35:BN:63:VAL:HB	35:BN:78:ARG:CG	2.49	0.42
35:BN:17:ARG:NH1	35:BN:98:VAL:HG21	2.34	0.42
36:BO:72:PRO:O	36:BO:111:ARG:NE	2.52	0.42
36:BO:114:ILE:C	36:BO:116:GLY:N	2.73	0.42
36:BO:16:ARG:HD3	36:BO:19:VAL:HG23	2.02	0.42
36:BO:68:GLN:N	36:BO:68:GLN:NE2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:34:LEU:CD1	37:BP:67:ARG:NH2	2.80	0.42
37:BP:72:LYS:C	37:BP:74:TYR:HH	2.21	0.42
38:BQ:97:VAL:CG2	38:BQ:114:VAL:CG1	2.98	0.42
38:BQ:17:ARG:HG2	38:BQ:18:LEU:CD2	2.50	0.42
39:BR:98:VAL:HG22	39:BR:99:LYS:N	2.35	0.42
40:BS:21:GLU:OE1	40:BS:23:ARG:CD	2.67	0.42
41:BT:17:ILE:HG23	41:BT:20:LEU:CD1	2.49	0.42
41:BT:88:ILE:HG12	42:BU:52:VAL:CG1	2.49	0.42
42:BU:40:LEU:CD1	42:BU:54:GLY:C	2.88	0.42
42:BU:68:LYS:HA	42:BU:68:LYS:HD2	1.66	0.42
43:BV:25:ARG:HH21	43:BV:74:ALA:C	2.22	0.42
24:BA:137(A):G:H1'	44:BW:41:ASN:HD21	1.84	0.42
44:BW:50:LYS:O	44:BW:52:VAL:HG23	2.19	0.42
46:BY:125:LEU:HB2	46:BY:137:ILE:HD12	2.02	0.42
46:BY:51:ALA:O	46:BY:53:ILE:N	2.52	0.42
46:BY:1:MET:HE1	46:BY:59:LEU:CD2	2.49	0.42
47:BZ:21:LEU:HG	47:BZ:22:GLY:N	2.28	0.42
32:BK:87:LYS:CD	32:BK:121:LYS:HG3	2.49	0.42
32:BK:128:LEU:O	32:BK:139:GLN:HA	2.19	0.42
3:AD:56:C:O5'	3:AD:57:G:C5	2.72	0.42
3:AD:60:U:OP2	3:AD:60:U:H5	2.03	0.42
26:BC:151:GLU:HA	26:BC:154:ARG:HD2	2.00	0.42
26:BC:162:GLU:HG2	26:BC:163:PHE:N	2.35	0.42
26:BC:30:LYS:NZ	26:BC:182:PRO:CD	2.75	0.42
26:BC:215:THR:HB	26:BC:221:SER:HB2	2.00	0.42
24:BA:1578:U:C5	24:BA:1579:A:N7	2.86	0.42
24:BA:1580:A:H2'	24:BA:1581:G:C8	2.54	0.42
1:AA:1003:G:C4	1:AA:1004:A:H1'	2.54	0.42
1:AA:747:C:C2'	1:AA:748:C:O4'	2.67	0.42
24:BA:441:U:O5'	24:BA:441:U:H6	2.02	0.42
33:BL:83:GLY:O	33:BL:84:LEU:O	2.37	0.42
1:AA:958:A:N6	1:AA:1221:G:O2'	2.52	0.42
1:AA:1242:C:N4	1:AA:1243:C:N4	2.68	0.42
1:AA:1291:G:C2	1:AA:1292:U:C2	3.08	0.42
1:AA:129(A):G:C8	1:AA:129(A):G:C3'	3.03	0.42
1:AA:1301:U:N3	1:AA:1303:C:C1'	2.82	0.42
1:AA:1434:A:N6	1:AA:1467:G:H21	2.18	0.42
1:AA:1509:C:H2'	1:AA:1510:U:H6	1.83	0.42
1:AA:14:U:O2	1:AA:17:U:H5	2.02	0.42
1:AA:186(E):C:C2'	1:AA:186(F):C:H5'	2.50	0.42
1:AA:317:G:H2'	1:AA:318:G:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:429:U:O2	1:AA:430:A:C8	2.73	0.42
1:AA:513:C:C2	1:AA:514:C:C6	3.08	0.42
1:AA:418:C:O2'	1:AA:540:G:H1'	2.20	0.42
1:AA:582:U:O4	1:AA:583:A:N6	2.53	0.42
1:AA:58:C:H5''	1:AA:58:C:C6	2.54	0.42
1:AA:707:C:N3	1:AA:708:C:C5	2.87	0.42
1:AA:860:A:N7	1:AA:861:G:C4	2.87	0.42
1:AA:97:U:H3	1:AA:99:C:N4	2.18	0.42
2:AC:18:G:N1	2:AC:57:A:N6	2.67	0.42
4:AE:92:TYR:CE2	4:AE:151:GLY:O	2.73	0.42
4:AE:73:THR:CG2	4:AE:93:VAL:HG12	2.49	0.42
5:AF:108:ASN:HD21	5:AF:110:ASN:CB	2.30	0.42
5:AF:16:ARG:HG2	5:AF:16:ARG:O	2.19	0.42
5:AF:172:ARG:C	5:AF:173:VAL:CG2	2.87	0.42
5:AF:182:ILE:CA	5:AF:204:LEU:HG	2.48	0.42
6:AG:175:SER:OG	6:AG:184:LYS:O	2.26	0.42
6:AG:31:CYS:O	6:AG:33:MET:CE	2.66	0.42
7:AH:28:PHE:O	7:AH:47:LYS:HA	2.19	0.42
8:AI:86:ARG:HD3	8:AI:86:ARG:HA	1.73	0.42
9:AJ:62:PHE:O	9:AJ:66:VAL:HG23	2.19	0.42
9:AJ:22:LEU:CD1	9:AJ:97:GLN:HE21	2.32	0.42
1:AA:876:G:C1'	10:AK:11:THR:HG21	2.49	0.42
10:AK:9:MET:C	10:AK:11:THR:N	2.70	0.42
10:AK:49:GLU:CG	10:AK:62:TYR:OH	2.67	0.42
10:AK:65:TYR:HB2	10:AK:66:GLY:H	1.64	0.42
11:AL:101:PHE:CD1	11:AL:101:PHE:N	2.87	0.42
11:AL:70:LYS:N	11:AL:73:GLN:OE1	2.53	0.42
11:AL:48:GLU:CB	11:AL:78:LYS:NZ	2.82	0.42
12:AM:31:GLY:N	12:AM:81:THR:OG1	2.52	0.42
12:AM:34:VAL:HG12	12:AM:36:GLY:N	2.35	0.42
5:AF:5:ILE:HG22	12:AM:51:ARG:HH22	1.79	0.42
12:AM:23:ILE:CA	12:AM:85:LEU:HD23	2.49	0.42
13:AN:48:ILE:O	13:AN:49:GLY:C	2.58	0.42
15:AP:23:TYR:O	15:AP:67:GLU:N	2.38	0.42
15:AP:52:GLU:O	15:AP:55:ARG:HG3	2.19	0.42
16:AQ:9:LYS:NZ	16:AQ:12:ARG:NH2	2.58	0.42
17:AR:48:LYS:CB	17:AR:50:HIS:NE2	2.83	0.42
17:AR:36:ILE:HD11	17:AR:60:VAL:HA	2.01	0.42
18:AS:59:TRP:O	18:AS:60:LEU:C	2.57	0.42
19:AT:22:LEU:CD1	19:AT:23:VAL:N	2.82	0.42
19:AT:50:LYS:O	19:AT:51:TYR:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:78:GLU:CG	19:AT:81:ARG:HB2	2.49	0.42
20:AU:37:VAL:HG12	20:AU:41:LYS:HE3	2.02	0.42
22:AW:51:GLU:CA	22:AW:54:LYS:HE3	2.50	0.42
48:B1:27:LEU:CD2	48:B1:52:ILE:HG13	2.49	0.42
50:B3:52:THR:O	50:B3:53:GLU:CB	2.68	0.42
52:B5:15:GLU:OE2	52:B5:20:ASN:O	2.37	0.42
54:B7:15:LYS:HE2	54:B7:64:TYR:CD2	2.55	0.42
55:B8:23:VAL:C	55:B8:24:TYR:HD1	2.23	0.42
55:B8:1:MET:N	55:B8:35:ARG:HD2	2.35	0.42
24:BA:1009:A:N1	24:BA:1010:A:C2	2.88	0.42
24:BA:1033:U:H5'	55:B8:16:VAL:CG1	2.50	0.42
24:BA:1090:U:H5	24:BA:1103:A:C2	2.38	0.42
24:BA:111:A:H2'	24:BA:112:U:H6	1.78	0.42
24:BA:1140:C:C2'	24:BA:1141:U:OP2	2.67	0.42
24:BA:115:C:O2'	24:BA:116:C:C5'	2.65	0.42
24:BA:1171:G:H1	24:BA:1179:C:H42	1.60	0.42
24:BA:1221:C:C2'	24:BA:1222:C:O5'	2.68	0.42
24:BA:1223:C:O2	24:BA:1223:C:H2'	2.19	0.42
24:BA:1224:G:C6	24:BA:1225:C:C4	3.07	0.42
24:BA:1227:A:C2'	24:BA:1228:G:H5''	2.49	0.42
24:BA:1308:A:C2	24:BA:1309:G:C1'	3.00	0.42
24:BA:1425:G:H2'	24:BA:1426:G:C4	2.54	0.42
24:BA:1435:G:N1	24:BA:1558:A:N6	2.67	0.42
24:BA:1517:G:N3	24:BA:1518:C:H1'	2.33	0.42
24:BA:1605:C:O4'	24:BA:1610:A:N7	2.53	0.42
24:BA:1652:A:H62	24:BA:1653:G:H21	1.66	0.42
24:BA:188:G:HO2'	24:BA:189:G:H5'	1.84	0.42
24:BA:1908:C:HO2'	24:BA:1909:C:H6	1.66	0.42
24:BA:1933:G:N2	24:BA:1934:C:C1'	2.81	0.42
24:BA:1935:G:N9	24:BA:1962:C:C4	2.88	0.42
24:BA:1966:A:H2'	24:BA:1967:C:OP2	2.19	0.42
24:BA:2020:A:N1	24:BA:2035:G:C6	2.87	0.42
24:BA:214:G:O2'	24:BA:215:G:H5'	2.19	0.42
24:BA:2075:U:N3	24:BA:2238:G:N2	2.68	0.42
24:BA:2290:G:C5	24:BA:2291:U:C4	3.08	0.42
24:BA:2309:A:C6	24:BA:2310:A:N3	2.87	0.42
24:BA:2349:G:C5	24:BA:2369:A:N1	2.88	0.42
24:BA:238:C:C2'	24:BA:239:U:O5'	2.68	0.42
24:BA:2408:U:C5'	24:BA:2408:U:H6	2.31	0.42
24:BA:2073:C:N4	24:BA:2437:U:H3	2.16	0.42
24:BA:2442:C:C2	24:BA:2443:C:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2472:G:H2'	24:BA:2473:U:OP1	2.20	0.42
24:BA:2570:G:C2	24:BA:2571:C:C2	3.07	0.42
24:BA:1457:A:C2	24:BA:2703:C:C4	3.07	0.42
24:BA:2717:G:H3'	24:BA:2717:G:OP2	2.20	0.42
24:BA:270(Z):U:C4	24:BA:271(C):U:H1'	2.54	0.42
24:BA:2733:A:N7	24:BA:2734:A:C5	2.88	0.42
24:BA:2740:A:C2	24:BA:2741:A:C5	3.07	0.42
24:BA:2742:C:H5''	55:B8:35:ARG:NH2	2.33	0.42
24:BA:2785:C:C4	24:BA:2786:U:O4	2.73	0.42
24:BA:2797:U:H6	24:BA:2797:U:H3'	1.85	0.42
24:BA:283:A:H2'	24:BA:284:U:H5'	2.01	0.42
24:BA:2854:G:C6	24:BA:2864:G:C6	3.07	0.42
24:BA:324:A:C2	24:BA:325:G:O4'	2.73	0.42
24:BA:36:G:H2'	24:BA:37:C:H6	1.84	0.42
24:BA:423:A:H2'	24:BA:424:G:OP1	2.19	0.42
24:BA:434:U:P	24:BA:434:U:H6	2.42	0.42
24:BA:449:A:H2'	24:BA:450:G:C4'	2.48	0.42
24:BA:47:C:C4	24:BA:179:G:O6	2.72	0.42
24:BA:49:A:H5'	24:BA:50:U:P	2.59	0.42
24:BA:578:A:OP1	24:BA:1255:U:C1'	2.67	0.42
24:BA:591:C:C4	24:BA:592:G:C5	3.07	0.42
24:BA:594:U:O4	24:BA:595:C:N4	2.50	0.42
24:BA:640:C:C3'	24:BA:641:C:C5'	2.97	0.42
24:BA:641:C:C2'	24:BA:642:G:C5'	2.80	0.42
24:BA:684:G:H22	24:BA:794:G:H1	1.68	0.42
24:BA:702:G:N2	24:BA:703:U:H1'	2.33	0.42
24:BA:753:C:H2'	24:BA:754:C:C6	2.55	0.42
24:BA:780:G:H2'	24:BA:782:A:C5	2.52	0.42
24:BA:672:C:C4	24:BA:809:G:N1	2.87	0.42
24:BA:901:A:C5	24:BA:902:C:C5	3.07	0.42
24:BA:979:G:N7	24:BA:981:A:P	2.93	0.42
24:BA:97:C:O2'	24:BA:98:G:O5'	2.33	0.42
25:BB:100:G:H8	25:BB:100:G:O5'	2.02	0.42
25:BB:65:C:C2	25:BB:108:C:N4	2.87	0.42
27:BD:262:ARG:O	27:BD:266:SER:HB3	2.19	0.42
27:BD:85:ASP:OD1	27:BD:85:ASP:O	2.37	0.42
28:BE:51:PHE:HD1	28:BE:76:ARG:HG2	1.81	0.42
29:BF:137:LYS:HE2	29:BF:140:LEU:HD13	2.01	0.42
30:BG:101:ILE:CD1	30:BG:101:ILE:C	2.88	0.42
30:BG:39:ILE:CG2	30:BG:157:ILE:HG13	2.45	0.42
30:BG:59:GLU:HB3	30:BG:152:LEU:CD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:130:ARG:O	31:BH:131:VAL:CG2	2.61	0.42
31:BH:13:LYS:NZ	31:BH:28:GLY:HA2	2.33	0.42
31:BH:163:TYR:O	31:BH:164:TYR:C	2.57	0.42
31:BH:35:VAL:HA	31:BH:36:PRO:HD2	1.71	0.42
32:BK:6:LEU:O	32:BK:6:LEU:HD23	2.19	0.42
33:BL:106:GLU:OE1	33:BL:107:ILE:HG13	2.19	0.42
33:BL:12:LEU:HD11	33:BL:23:VAL:HG21	1.99	0.42
34:BM:39:ARG:C	34:BM:42:TRP:CE3	2.92	0.42
34:BM:89:LYS:CA	34:BM:92:ALA:HB3	2.33	0.42
37:BP:112:GLU:HA	37:BP:115:MET:HB3	2.02	0.42
37:BP:48:GLU:O	37:BP:49:ALA:C	2.55	0.42
38:BQ:61:HIS:O	38:BQ:64:ARG:N	2.52	0.42
38:BQ:63:ARG:NH1	38:BQ:80:PHE:HB3	2.35	0.42
39:BR:66:ALA:O	39:BR:68:GLN:N	2.53	0.42
40:BS:111:ARG:HG3	40:BS:114:LEU:HD12	2.01	0.42
40:BS:24:PRO:O	40:BS:25:GLY:O	2.37	0.42
35:BN:122:LEU:HA	40:BS:70:VAL:O	2.20	0.42
40:BS:93:ARG:HA	40:BS:93:ARG:HE	1.84	0.42
41:BT:102:GLU:CB	41:BT:105:VAL:CB	2.87	0.42
41:BT:113:ALA:O	41:BT:116:ALA:CB	2.62	0.42
41:BT:36:ARG:O	41:BT:40:PHE:CD1	2.72	0.42
41:BT:92:ARG:O	41:BT:94:ASN:N	2.47	0.42
42:BU:5:VAL:CG1	42:BU:37:VAL:CG2	2.96	0.42
42:BU:5:VAL:C	42:BU:6:LYS:HG3	2.40	0.42
44:BW:60:ARG:HG3	44:BW:62:LYS:HG3	2.01	0.42
46:BY:102:LEU:HD23	46:BY:124:ILE:HA	2.01	0.42
46:BY:127:LYS:CD	46:BY:165:VAL:HG23	2.41	0.42
46:BY:93:ASP:O	46:BY:94:GLU:HB2	2.18	0.42
47:BZ:21:LEU:HG	47:BZ:39:ARG:C	2.34	0.42
47:BZ:76:GLY:C	47:BZ:78:TYR:CD1	2.93	0.42
47:BZ:79:VAL:O	47:BZ:80:HIS:CD2	2.72	0.42
24:BA:2114:A:O2'	24:BA:2115:G:H5'	2.20	0.42
26:BC:137:LEU:C	26:BC:137:LEU:HD23	2.40	0.42
24:BA:2122:U:H1'	26:BC:166:ASP:CG	2.40	0.42
26:BC:214:VAL:C	26:BC:215:THR:CG2	2.88	0.42
26:BC:7:TYR:O	26:BC:7:TYR:CD1	2.73	0.42
26:BC:7:TYR:O	26:BC:9:ALA:N	2.52	0.42
24:BA:1497:U:C5	24:BA:1498:C:C5	3.07	0.42
24:BA:1576:U:H2'	24:BA:1577:C:C6	2.54	0.42
1:AA:1166:G:N2	1:AA:1169:A:O5'	2.52	0.42
24:BA:2098:U:C2	24:BA:2099:U:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2464:C:H2'	24:BA:2465:C:O5'	2.19	0.42
8:AI:90:VAL:O	8:AI:90:VAL:HG13	2.18	0.42
1:AA:1084:G:P	1:AA:1086:U:C6	3.12	0.42
1:AA:1192:C:N4	1:AA:1193:G:C6	2.86	0.42
1:AA:1215:G:H2'	1:AA:1215:G:N3	2.34	0.42
1:AA:1244:C:OP2	23:AX:9:ARG:HD3	2.20	0.42
1:AA:1245:A:C6	1:AA:1293:G:N1	2.88	0.42
1:AA:1286:A:N3	23:AX:18:TYR:CZ	2.87	0.42
1:AA:1306:A:H3'	1:AA:1307:U:C5	2.54	0.42
1:AA:1479:C:C2	1:AA:1480:G:C8	3.07	0.42
1:AA:250:A:N3	1:AA:252:U:N3	2.68	0.42
1:AA:255:G:OP2	19:AT:66:SER:HB2	2.20	0.42
1:AA:427:U:C6	1:AA:428:G:N7	2.87	0.42
1:AA:657:G:H5'	17:AR:28:GLN:OE1	2.20	0.42
1:AA:856:C:C2	1:AA:857:C:C6	3.08	0.42
1:AA:87:A:C8	1:AA:88:C:C6	3.07	0.42
1:AA:914:A:C2'	1:AA:915:A:C8	2.87	0.42
2:AC:31:G:H3'	2:AC:32:C:H5	1.83	0.42
2:AC:30:G:C2	2:AC:41:C:C2	3.07	0.42
3:AD:6:G:C6	3:AD:68:U:C4	3.08	0.42
4:AE:155:LEU:C	4:AE:157:ARG:H	2.22	0.42
4:AE:177:ALA:O	4:AE:180:LEU:N	2.53	0.42
5:AF:25:GLY:N	5:AF:28:GLN:NE2	2.67	0.42
5:AF:19:GLU:CG	5:AF:54:ARG:HE	2.21	0.42
5:AF:38:ARG:CB	5:AF:94:LEU:HD21	2.49	0.42
6:AG:130:GLY:HA3	6:AG:131:ARG:HH12	1.84	0.42
6:AG:15:GLU:OE1	6:AG:59:ARG:NH2	2.51	0.42
6:AG:173:TRP:CD2	6:AG:189:PRO:HB3	2.49	0.42
7:AH:43:LEU:CB	7:AH:136:MET:HE2	2.29	0.42
7:AH:141:GLN:OE1	7:AH:141:GLN:CA	2.68	0.42
8:AI:36:ARG:NH1	8:AI:66:GLU:OE2	2.52	0.42
9:AJ:25:ALA:O	9:AJ:28:ASN:HB2	2.20	0.42
9:AJ:75:VAL:HA	9:AJ:88:PRO:HA	2.02	0.42
10:AK:126:LYS:HZ2	10:AK:127:LEU:CA	2.32	0.42
11:AL:15:ALA:HB3	11:AL:76:ALA:CB	2.49	0.42
1:AA:963:G:H21	12:AM:55:LYS:HD2	1.85	0.42
15:AP:108:ARG:CZ	15:AP:111:LYS:HD2	2.49	0.42
1:AA:974:A:C4	16:AQ:31:ARG:NH2	2.87	0.42
18:AS:58:TYR:O	18:AS:61:SER:OG	2.33	0.42
21:AV:45:VAL:HA	21:AV:67:VAL:HG22	2.02	0.42
21:AV:50:ALA:HB1	21:AV:57:HIS:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:45:GLY:O	49:B2:46:ASN:C	2.58	0.42
49:B2:49:LYS:O	49:B2:50:VAL:C	2.57	0.42
49:B2:50:VAL:O	49:B2:52:HIS:CE1	2.73	0.42
50:B3:11:PRO:CA	50:B3:40:HIS:NE2	2.70	0.42
50:B3:56:VAL:HB	50:B3:61:ARG:NE	2.34	0.42
50:B3:59:PHE:CA	50:B3:62:ARG:HH21	2.32	0.42
50:B3:67:TYR:O	50:B3:70:GLY:N	2.53	0.42
51:B4:39:MET:CE	51:B4:40:LYS:HA	2.48	0.42
51:B4:8:LYS:O	51:B4:9:LYS:CB	2.67	0.42
52:B5:51:GLU:CD	52:B5:51:GLU:C	2.78	0.42
53:B6:5:TRP:HZ3	53:B6:12:ARG:NH1	1.97	0.42
54:B7:36:LYS:O	54:B7:37:SER:OG	2.35	0.42
55:B8:25:VAL:HG21	55:B8:34:GLN:OE1	2.20	0.42
24:BA:1049:C:N4	24:BA:1051:G:C5	2.87	0.42
24:BA:1106:G:N3	24:BA:1106:G:H2'	2.35	0.42
24:BA:1143:A:C4	24:BA:1144:G:C5	3.07	0.42
24:BA:1196:C:C2	24:BA:1197:G:N7	2.88	0.42
24:BA:812:C:C6	24:BA:1250:G:C6	3.08	0.42
24:BA:1272:A:C2	24:BA:1618:A:N1	2.88	0.42
24:BA:1287:A:C6	24:BA:1288:U:N3	2.87	0.42
24:BA:1308:A:H2'	24:BA:1309:G:O4'	2.20	0.42
24:BA:1364:G:C4	24:BA:1366:A:OP1	2.72	0.42
24:BA:1379:A:C3'	24:BA:1379:A:N3	2.82	0.42
24:BA:1567:A:H3'	24:BA:1567:A:C4	2.52	0.42
24:BA:1631:A:C2	24:BA:1632:A:N3	2.87	0.42
24:BA:1656:C:H5'	28:BE:136:ARG:CZ	2.50	0.42
24:BA:1670:C:H2'	24:BA:1671:U:H5'	2.02	0.42
24:BA:1703:G:C2	24:BA:1704:G:C1'	3.02	0.42
24:BA:1754:C:O2	24:BA:1754:C:C2'	2.67	0.42
24:BA:1825:A:C2'	24:BA:1825:A:N3	2.82	0.42
24:BA:1835:G:C2	24:BA:1836:C:C6	3.07	0.42
24:BA:1913:A:H2'	24:BA:1913:A:N3	2.35	0.42
24:BA:1947:C:C4	24:BA:1948:G:N7	2.87	0.42
24:BA:1975:G:C2	24:BA:1976:U:H1'	2.54	0.42
24:BA:1268:A:C6	24:BA:2013:A:C5	3.07	0.42
24:BA:2041:U:H2'	24:BA:2042:A:O4'	2.20	0.42
24:BA:2286:A:H4'	24:BA:2287:A:N3	2.34	0.42
24:BA:2331:G:N2	24:BA:2385:C:N4	2.64	0.42
24:BA:2350:C:H2'	24:BA:2351:G:C8	2.54	0.42
24:BA:2453:A:H61	24:BA:2500:U:H3	1.68	0.42
24:BA:2527:C:O3'	55:B8:30:PRO:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2636:U:H6	24:BA:2636:U:H5''	1.83	0.42
24:BA:2682:U:H2'	24:BA:2682:U:O2	2.20	0.42
24:BA:2705:A:O2'	24:BA:2706:G:OP1	2.34	0.42
24:BA:2721:A:H3'	24:BA:2722:G:C8	2.54	0.42
24:BA:271:G:C2	24:BA:272:G:N7	2.88	0.42
24:BA:2767:C:H2'	24:BA:2768:C:C6	2.54	0.42
24:BA:2839:G:C4	24:BA:2840:C:C5	3.07	0.42
24:BA:2872:G:N1	24:BA:2873:A:N6	2.67	0.42
24:BA:289:A:N7	24:BA:290:G:O6	2.52	0.42
24:BA:307:G:C2	24:BA:309:G:H5'	2.55	0.42
24:BA:307:G:N3	24:BA:309:G:H5''	2.35	0.42
24:BA:309:G:C3'	24:BA:310:A:O4'	2.67	0.42
24:BA:447:A:C6	24:BA:473:G:N9	2.88	0.42
24:BA:459:U:C2'	24:BA:460:A:H8	2.30	0.42
24:BA:468:G:O6	24:BA:469:G:C2	2.72	0.42
24:BA:507:A:O2'	24:BA:508:G:N2	2.53	0.42
24:BA:559:G:C8	24:BA:559:G:C4'	3.03	0.42
24:BA:611:C:N4	24:BA:612:G:C2	2.87	0.42
24:BA:625:G:N1	24:BA:626:U:O4'	2.52	0.42
24:BA:627:A:H5''	36:BO:75:ILE:HG21	2.01	0.42
24:BA:669:G:N3	24:BA:669:G:H3'	2.34	0.42
24:BA:701:G:C6	24:BA:732:C:N4	2.87	0.42
24:BA:704:G:C2	24:BA:726:G:N3	2.88	0.42
24:BA:729:G:C6	24:BA:730:C:C5	3.07	0.42
24:BA:747:U:C2'	24:BA:748:G:OP1	2.67	0.42
24:BA:780:G:C4	24:BA:782:A:N6	2.88	0.42
24:BA:878:A:C2	24:BA:879:G:C4	3.08	0.42
24:BA:86:C:C2	24:BA:87:C:H5	2.37	0.42
24:BA:943:U:H5	24:BA:944:G:C8	2.37	0.42
24:BA:945:A:C3'	24:BA:946:G:C5'	2.98	0.42
25:BB:32:C:H5'	25:BB:33:G:OP2	2.19	0.42
25:BB:52:A:OP1	25:BB:52:A:H4'	2.20	0.42
25:BB:99:A:C2'	25:BB:100:G:C5'	2.97	0.42
24:BA:1792:G:OP1	27:BD:206:LEU:CD1	2.67	0.42
24:BA:1775:U:C4	27:BD:208:LYS:CG	3.02	0.42
28:BE:8:LYS:O	28:BE:192:ASN:HB2	2.20	0.42
29:BF:122:LYS:HD3	29:BF:122:LYS:C	2.38	0.42
29:BF:168:ARG:H	29:BF:168:ARG:CD	2.31	0.42
30:BG:43:LEU:HD11	30:BG:88:ILE:C	2.40	0.42
30:BG:71:THR:C	30:BG:73:ALA:H	2.23	0.42
31:BH:103:LEU:HB2	31:BH:115:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:82:GLY:O	31:BH:136:ILE:CA	2.56	0.42
31:BH:94:TYR:OH	31:BH:128:PRO:CB	2.68	0.42
35:BN:48:PRO:O	35:BN:50:GLY:N	2.53	0.42
36:BO:132:LYS:HD2	36:BO:135:LEU:HD22	2.02	0.42
36:BO:124:LYS:CD	36:BO:142:GLY:O	2.66	0.42
36:BO:36:LYS:HE3	36:BO:42:SER:HB2	2.01	0.42
36:BO:75:ILE:HG22	36:BO:115:LEU:HD11	2.00	0.42
37:BP:35:VAL:CG2	37:BP:37:LEU:HD21	2.50	0.42
37:BP:41:TRP:HA	37:BP:95:ALA:O	2.19	0.42
37:BP:75:THR:CB	37:BP:77:LYS:HD2	2.49	0.42
39:BR:29:PHE:HB2	39:BR:36:TYR:O	2.19	0.42
39:BR:44:LYS:CB	39:BR:46:VAL:HG22	2.50	0.42
39:BR:83:LYS:O	39:BR:84:GLN:CD	2.58	0.42
40:BS:82:LEU:HD23	40:BS:83:ILE:CG2	2.50	0.42
40:BS:82:LEU:CD2	40:BS:83:ILE:HG23	2.48	0.42
24:BA:1010:A:H5'	41:BT:66:ASN:HD21	1.84	0.42
41:BT:88:ILE:CG1	42:BU:52:VAL:HG13	2.49	0.42
42:BU:74:LYS:CB	42:BU:87:HIS:O	2.68	0.42
42:BU:93:GLU:OE2	42:BU:95:LEU:CD2	2.68	0.42
43:BV:19:LEU:O	43:BV:22:ASP:HB2	2.19	0.42
44:BW:68:ARG:HH11	44:BW:68:ARG:HB3	1.85	0.42
45:BX:19:LYS:HZ2	45:BX:39:VAL:HB	1.84	0.42
45:BX:46:LYS:HB3	45:BX:46:LYS:NZ	2.31	0.42
45:BX:89:PHE:O	45:BX:90:LEU:C	2.58	0.42
45:BX:86:ARG:CA	45:BX:91:GLU:HG2	2.49	0.42
46:BY:108:PRO:O	46:BY:109:ALA:HB2	2.18	0.42
46:BY:84:GLU:O	46:BY:85:HIS:HB2	2.20	0.42
47:BZ:36:ILE:CG1	47:BZ:37:LEU:H	2.29	0.42
32:BK:107:VAL:HG12	32:BK:109:ILE:CD1	2.50	0.42
3:AD:56:C:C4'	26:BC:133:PRO:CG	2.98	0.42
24:BA:2128:C:N4	24:BA:2129:C:C4	2.88	0.42
26:BC:214:VAL:CG2	26:BC:224:ILE:HD13	2.48	0.42
26:BC:48:GLY:H	26:BC:210:ARG:HG3	1.85	0.42
26:BC:64:LEU:HD13	26:BC:188:ASN:OD1	2.20	0.42
24:BA:1887:C:O2'	24:BA:1888:G:H5'	2.20	0.42
8:AI:46:ARG:HB3	8:AI:46:ARG:HE	1.70	0.42
1:AA:1124:G:OP1	12:AM:35:SER:O	2.38	0.42
1:AA:1188:A:C5	1:AA:1189:C:C4	3.07	0.42
1:AA:11:G:H21	1:AA:24:U:H1'	1.84	0.42
1:AA:1373:G:C4'	9:AJ:34:GLY:O	2.67	0.42
1:AA:1374:A:C6	1:AA:1375:A:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1468:A:C2'	1:AA:1469:G:H5'	2.47	0.42
1:AA:155:C:O2'	1:AA:156:G:H5'	2.19	0.42
1:AA:279:A:C1'	1:AA:281:G:N3	2.53	0.42
1:AA:287:U:H2'	1:AA:287:U:O2	2.18	0.42
1:AA:332:G:C4	1:AA:333:G:C8	3.07	0.42
1:AA:363:A:OP2	14:AO:34:ARG:NH2	2.52	0.42
1:AA:404:U:P	6:AG:118:ARG:HH11	2.43	0.42
1:AA:407:G:O2'	1:AA:408:A:H5'	2.19	0.42
1:AA:513:C:C2	1:AA:514:C:C5	3.07	0.42
1:AA:498:A:C8	1:AA:547:A:N6	2.87	0.42
1:AA:397:A:C2	1:AA:548:G:O6	2.73	0.42
1:AA:620:C:H2'	1:AA:621:A:C5'	2.50	0.42
1:AA:620:C:HO2'	1:AA:621:A:H5'	1.81	0.42
1:AA:696:A:H3'	1:AA:697:U:C5	2.55	0.42
1:AA:654:G:C1'	1:AA:753:A:C2	3.01	0.42
1:AA:872:A:H2'	1:AA:873:A:H5'	2.00	0.42
1:AA:873:A:C5'	1:AA:874:G:OP2	2.68	0.42
1:AA:949:A:HO2'	1:AA:1364:U:H3	1.61	0.42
1:AA:988:G:C4	1:AA:989:C:C6	3.08	0.42
1:AA:994:A:C2	1:AA:995:C:C2	3.07	0.42
4:AE:132:LYS:HZ2	4:AE:132:LYS:HB3	1.84	0.42
4:AE:15:VAL:HG21	4:AE:210:SER:H	1.84	0.42
4:AE:20:GLU:N	4:AE:20:GLU:OE1	2.52	0.42
4:AE:69:LEU:HD22	4:AE:92:TYR:HA	2.02	0.42
5:AF:10:PHE:O	5:AF:178:LEU:CD1	2.67	0.42
5:AF:68:VAL:HG12	5:AF:69:HIS:N	2.34	0.42
6:AG:119:GLN:O	6:AG:123:HIS:CD2	2.73	0.42
6:AG:131:ARG:HD2	6:AG:132:ARG:H	1.82	0.42
6:AG:139:ARG:O	6:AG:141:ARG:N	2.53	0.42
6:AG:148:VAL:HG11	6:AG:158:ILE:HG23	2.01	0.42
6:AG:3:ARG:NE	6:AG:71:SER:N	2.67	0.42
6:AG:61:LYS:HD2	6:AG:207:TYR:OH	2.19	0.42
8:AI:80:ARG:HG2	8:AI:88:VAL:CG1	2.46	0.42
1:AA:1346:A:C2	9:AJ:10:ARG:NE	2.88	0.42
1:AA:1298:C:C6	9:AJ:114:ARG:HD3	2.55	0.42
9:AJ:49:ILE:CD1	9:AJ:121:ALA:HB2	2.34	0.42
9:AJ:138:LYS:O	9:AJ:140:ASP:N	2.51	0.42
10:AK:45:ILE:HB	10:AK:61:VAL:HG11	2.01	0.42
10:AK:6:ILE:HD12	10:AK:7:ALA:N	2.33	0.42
11:AL:111:ARG:C	11:AL:113:LYS:HE3	2.39	0.42
12:AM:27:ALA:HB3	12:AM:85:LEU:HD21	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:38:ILE:HA	12:AM:39:PRO:HD2	1.71	0.42
13:AN:61:ALA:O	13:AN:62:GLN:C	2.58	0.42
14:AO:122:THR:CG2	14:AO:123:LYS:N	2.82	0.42
14:AO:24:VAL:HG22	14:AO:98:TYR:CE2	2.55	0.42
14:AO:56:ALA:HB2	14:AO:100:ILE:HD11	2.02	0.42
15:AP:34:LEU:HD22	15:AP:41:PRO:CA	2.47	0.42
17:AR:34:LEU:HG	17:AR:35:ARG:HG3	2.01	0.42
17:AR:65:ARG:HH11	17:AR:65:ARG:HB2	1.84	0.42
17:AR:69:TYR:CE1	17:AR:73:GLU:HG3	2.55	0.42
17:AR:6:GLU:O	17:AR:9:GLN:N	2.53	0.42
18:AS:12:LYS:C	18:AS:14:ASN:H	2.23	0.42
18:AS:20:VAL:HG11	18:AS:32:TYR:CG	2.54	0.42
18:AS:60:LEU:HA	18:AS:64:ALA:CB	2.42	0.42
19:AT:5:VAL:HG12	19:AT:6:LEU:H	1.78	0.42
21:AV:39:THR:O	21:AV:41:VAL:HG13	2.20	0.42
23:AX:17:THR:O	23:AX:22:ARG:NH1	2.52	0.42
49:B2:23:LEU:HD12	49:B2:50:VAL:HG21	2.01	0.42
49:B2:37:LEU:CD2	49:B2:37:LEU:C	2.85	0.42
49:B2:53:LEU:N	49:B2:53:LEU:HD23	2.34	0.42
52:B5:29:ASN:O	52:B5:30:THR:C	2.57	0.42
24:BA:1085:A:O2'	24:BA:1086:A:P	2.77	0.42
24:BA:1130:U:H6	24:BA:1130:U:O5'	2.03	0.42
24:BA:1143:A:O2'	24:BA:1144:G:C4'	2.68	0.42
24:BA:1203:G:C5	24:BA:1240:U:C4	3.07	0.42
24:BA:121:G:C2	24:BA:122:G:C8	3.07	0.42
24:BA:1241:A:OP2	24:BA:1241:A:O4'	2.38	0.42
24:BA:1354:A:H8	24:BA:1355:G:C8	2.36	0.42
24:BA:1363:C:C2	24:BA:1369:G:C6	3.07	0.42
24:BA:1372:U:H2'	24:BA:1373:A:O5'	2.19	0.42
24:BA:1419:A:OP2	24:BA:1419:A:C4'	2.67	0.42
24:BA:1438:U:O4'	24:BA:1517:G:OP1	2.37	0.42
24:BA:1455:G:H2'	24:BA:1456:G:H5'	2.00	0.42
24:BA:1486:A:H2'	24:BA:1487:G:O4'	2.19	0.42
24:BA:1487:G:C5	24:BA:1488:G:N7	2.88	0.42
24:BA:1526:G:H22	24:BA:1546:C:N4	2.18	0.42
24:BA:1530:G:C8	24:BA:1531:C:C5	3.08	0.42
24:BA:129:C:H5'	24:BA:1599:C:O2'	2.20	0.42
24:BA:1650:G:O6	24:BA:2008:C:N4	2.52	0.42
24:BA:1668:A:H62	24:BA:1676:A:H61	1.68	0.42
24:BA:1778:U:O3'	24:BA:1779:U:C5	2.72	0.42
24:BA:1826:G:O2'	24:BA:1827:C:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:188:G:C5	24:BA:189:G:C8	3.07	0.42
24:BA:1918:A:C8	24:BA:1919:A:N7	2.88	0.42
24:BA:2038:G:H2'	24:BA:2039:C:O4'	2.19	0.42
24:BA:2070:G:C2	24:BA:2071:A:C4	3.08	0.42
24:BA:2255:G:C1'	47:BZ:7:LEU:HD23	2.50	0.42
24:BA:858:U:HO2'	24:BA:2268:A:H2'	1.75	0.42
24:BA:2357:U:C2'	24:BA:2358:G:O5'	2.68	0.42
24:BA:2380:C:O2'	24:BA:2381:C:H5'	2.19	0.42
24:BA:2460:U:C2'	24:BA:2461:C:C6	3.03	0.42
24:BA:2466:C:N4	24:BA:2485:G:C6	2.87	0.42
24:BA:2509:G:N1	24:BA:2580:U:C2	2.88	0.42
24:BA:2516:G:C4	24:BA:2569:G:C2	3.08	0.42
24:BA:1128:A:N6	24:BA:2518:A:C6	2.86	0.42
24:BA:251:A:O2'	24:BA:252:G:OP1	2.38	0.42
24:BA:2529:G:OP2	24:BA:2530:A:C8	2.72	0.42
24:BA:2547:U:H3'	24:BA:2548:G:C5'	2.49	0.42
24:BA:1672:C:O4'	24:BA:2553:G:H4'	2.20	0.42
24:BA:2776:A:H1'	24:BA:2778:A:C8	2.55	0.42
24:BA:2792:G:C2	24:BA:2793:G:C8	3.08	0.42
24:BA:27:G:H8	24:BA:27:G:H3'	1.83	0.42
24:BA:2839:G:N1	24:BA:2880:C:N4	2.67	0.42
24:BA:2899:G:C2	24:BA:2900:A:C8	3.08	0.42
24:BA:295:G:C5	24:BA:344:G:N2	2.88	0.42
24:BA:372:G:C5'	24:BA:372:G:N3	2.83	0.42
24:BA:477:A:C3'	24:BA:478:A:H8	2.31	0.42
24:BA:475:U:O4	24:BA:481:G:O6	2.37	0.42
24:BA:485:C:N3	24:BA:496:G:C2	2.88	0.42
24:BA:513:A:N1	24:BA:514:A:C8	2.88	0.42
24:BA:530:G:O2'	24:BA:531:C:O5'	2.33	0.42
24:BA:558:G:C2'	24:BA:559:G:C5'	2.93	0.42
24:BA:655:A:OP1	24:BA:655:A:C4'	2.68	0.42
24:BA:682:G:N2	24:BA:796:C:C2	2.88	0.42
24:BA:684:G:O6	24:BA:774:A:C2'	2.68	0.42
24:BA:687:C:C5	24:BA:788:A:N7	2.87	0.42
24:BA:90:U:H1'	24:BA:91:A:C8	2.53	0.42
24:BA:954:G:H5''	37:BP:17:LEU:HD22	2.00	0.42
24:BA:963:U:C2'	24:BA:964:C:O5'	2.68	0.42
25:BB:39:A:H2	25:BB:46:A:H61	1.68	0.42
25:BB:43:C:H2'	25:BB:44:G:H5'	2.02	0.42
27:BD:101:GLU:O	27:BD:102:LYS:HG3	2.20	0.42
27:BD:54:ARG:CG	27:BD:221:VAL:HG23	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:51:VAL:CB	27:BD:52:ARG:CD	2.98	0.42
27:BD:69:ARG:O	27:BD:71:ASP:N	2.53	0.42
24:BA:2512:C:OP1	28:BE:120:TRP:HH2	2.03	0.42
24:BA:1675:C:C4	28:BE:129:HIS:CD2	3.08	0.42
28:BE:13:ARG:HH22	28:BE:20:ALA:HB3	1.82	0.42
28:BE:54:GLN:CB	28:BE:57:LYS:NZ	2.76	0.42
29:BF:164:ARG:HD3	29:BF:164:ARG:O	2.19	0.42
29:BF:122:LYS:HE3	29:BF:192:LEU:HB3	2.01	0.42
30:BG:118:ARG:NH2	30:BG:120:LEU:HD21	2.28	0.42
30:BG:18:GLU:HB3	30:BG:19:LEU:CD1	2.42	0.42
30:BG:36:LYS:O	30:BG:37:VAL:CG2	2.68	0.42
30:BG:59:GLU:OE2	30:BG:152:LEU:CB	2.64	0.42
30:BG:57:ALA:H	30:BG:68:PRO:HB2	1.80	0.42
30:BG:43:LEU:CD2	30:BG:88:ILE:HG22	2.50	0.42
31:BH:94:TYR:OH	31:BH:128:PRO:O	2.35	0.42
31:BH:124:GLU:CB	31:BH:132:ARG:CZ	2.98	0.42
31:BH:152:ARG:CG	31:BH:152:ARG:HH21	2.13	0.42
32:BK:21:VAL:HG11	32:BK:30:LEU:CD1	2.34	0.42
32:BK:24:GLY:O	32:BK:25:TYR:C	2.57	0.42
33:BL:116:ASN:O	33:BL:117:THR:OG1	2.35	0.42
34:BM:25:ARG:O	34:BM:26:LEU:C	2.58	0.42
34:BM:22:THR:CG2	34:BM:61:ARG:NH1	2.73	0.42
34:BM:66:LYS:HA	34:BM:87:LEU:HD21	2.01	0.42
34:BM:71:ILE:HD12	34:BM:101:HIS:ND1	2.34	0.42
34:BM:97:ARG:O	34:BM:100:GLU:CA	2.67	0.42
35:BN:104:ARG:N	35:BN:107:ARG:NH1	2.68	0.42
35:BN:58:VAL:HA	35:BN:59:LYS:HE2	2.01	0.42
35:BN:72:PRO:CG	40:BS:84:GLN:NE2	2.83	0.42
35:BN:81:ASP:C	35:BN:82:ASN:HD22	2.23	0.42
24:BA:623:G:H8	36:BO:105:LEU:HD22	1.83	0.42
36:BO:114:ILE:HG21	36:BO:134:ALA:HB1	2.00	0.42
38:BQ:37:THR:CB	38:BQ:111:LEU:HD22	2.50	0.42
38:BQ:52:ILE:HG23	38:BQ:53:HIS:N	2.35	0.42
39:BR:62:LYS:C	39:BR:65:VAL:H	2.22	0.42
40:BS:109:GLU:O	40:BS:110:ILE:CG1	2.68	0.42
40:BS:63:VAL:HG12	40:BS:78:LEU:CB	2.50	0.42
41:BT:88:ILE:CD1	41:BT:88:ILE:H	2.17	0.42
41:BT:68:ALA:CB	41:BT:99:ALA:CB	2.98	0.42
42:BU:11:GLN:O	42:BU:21:ARG:NH2	2.53	0.42
42:BU:1:MET:H2	42:BU:44:LYS:HA	1.84	0.42
43:BV:18:ARG:CD	43:BV:76:VAL:H	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:1:MET:O	43:BV:2:GLU:HB2	2.19	0.42
24:BA:2009:G:C4'	43:BV:40:ASN:HD21	2.29	0.42
43:BV:75:TYR:O	43:BV:104:THR:O	2.38	0.42
24:BA:24:G:H4'	43:BV:77:ASP:OD1	2.20	0.42
44:BW:48:LYS:O	44:BW:88:LYS:CD	2.68	0.42
45:BX:74:PRO:HB2	45:BX:100:ALA:HB1	2.01	0.42
46:BY:155:LEU:HD12	46:BY:155:LEU:HA	1.81	0.42
46:BY:24:LEU:HB2	46:BY:41:LEU:CD2	2.32	0.42
46:BY:4:ARG:HD2	46:BY:37:VAL:HB	2.00	0.42
46:BY:48:PHE:HA	46:BY:54:HIS:NE2	2.35	0.42
24:BA:2277:G:C5'	47:BZ:12:ASN:ND2	2.79	0.42
47:BZ:62:LEU:C	47:BZ:62:LEU:HD23	2.39	0.42
32:BK:93:THR:HG21	32:BK:95:LYS:HB3	2.01	0.42
32:BK:96:ASP:O	32:BK:97:ILE:C	2.58	0.42
26:BC:103:ILE:CG1	26:BC:108:MET:SD	3.08	0.42
26:BC:53:ARG:H	26:BC:53:ARG:HD3	1.84	0.42
1:AA:749:C:C2'	1:AA:749:C:O2	2.65	0.42
24:BA:2189:U:H2'	24:BA:2190:G:H8	1.83	0.42
40:BS:37:GLY:CA	40:BS:42:ILE:O	2.67	0.42
7:AH:140:ARG:HB2	7:AH:140:ARG:NH1	2.35	0.42
1:AA:1077:G:C4	1:AA:1081:G:N1	2.88	0.42
1:AA:1324:A:C5	1:AA:1325:C:C5	3.08	0.42
1:AA:1376:U:H2'	1:AA:1377:A:N7	2.35	0.42
1:AA:1419:G:C4	1:AA:1420:C:C5	3.07	0.42
1:AA:1446:A:N3	1:AA:1446:A:O4'	2.52	0.42
1:AA:166:G:C2	1:AA:167:G:C8	3.08	0.42
1:AA:173:U:O4'	1:AA:197:A:C4	2.71	0.42
1:AA:193:C:N3	1:AA:194:C:N4	2.67	0.42
1:AA:266:G:N2	1:AA:269:C:N4	2.59	0.42
1:AA:254:G:C6	1:AA:273:A:C6	3.08	0.42
1:AA:374:A:C6	1:AA:375:U:C5	3.07	0.42
1:AA:381:C:H2'	1:AA:382:A:C8	2.55	0.42
1:AA:438:G:N2	1:AA:495:A:H8	2.17	0.42
1:AA:712:A:O2'	1:AA:713:G:H5'	2.20	0.42
1:AA:731:G:H2'	1:AA:732:C:H6	1.84	0.42
1:AA:667:G:C2	1:AA:740:U:C2	3.07	0.42
1:AA:666:G:C2	1:AA:741:G:C4	3.08	0.42
1:AA:755:G:OP2	17:AR:65:ARG:CG	2.67	0.42
1:AA:757:U:H2'	1:AA:758:G:O4'	2.20	0.42
1:AA:774:G:C4	1:AA:775:G:C8	3.08	0.42
1:AA:22:G:C4'	1:AA:885:G:O4'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:966:G:O2'	1:AA:967:C:O5'	2.37	0.42
1:AA:986:A:H2'	1:AA:987:G:O4'	2.20	0.42
2:AC:23:C:C4	2:AC:24:U:C4	3.07	0.42
2:AC:23:C:C4	2:AC:24:U:O4	2.73	0.42
2:AC:27:U:H2'	2:AC:28:C:C5	2.55	0.42
2:AC:28:C:C2	2:AC:29:G:N7	2.88	0.42
4:AE:214:ILE:HA	4:AE:217:ARG:HG2	2.01	0.42
4:AE:73:THR:HG22	4:AE:93:VAL:HG12	2.02	0.42
5:AF:117:ALA:O	5:AF:121:ALA:CB	2.68	0.42
5:AF:205:GLY:O	5:AF:206:GLU:HB3	2.19	0.42
5:AF:20:SER:N	5:AF:40:ARG:NH2	2.68	0.42
6:AG:102:ASP:OD1	6:AG:118:ARG:HB2	2.20	0.42
1:AA:408:A:OP1	6:AG:113:SER:CB	2.67	0.42
6:AG:12:CYS:HB3	6:AG:33:MET:SD	2.60	0.42
6:AG:75:PHE:HE1	6:AG:97:LEU:HD21	1.84	0.42
7:AH:12:LEU:C	7:AH:12:LEU:HD13	2.40	0.42
7:AH:75:THR:O	7:AH:76:ILE:C	2.57	0.42
8:AI:41:GLU:O	8:AI:42:GLU:HB3	2.20	0.42
8:AI:60:PHE:C	8:AI:61:LEU:HD23	2.39	0.42
1:AA:939:G:O3'	9:AJ:102:ARG:NH1	2.53	0.42
10:AK:10:LEU:N	10:AK:13:ILE:HD12	2.33	0.42
10:AK:112:LEU:HD11	10:AK:114:THR:HG22	2.02	0.42
10:AK:14:ARG:NH1	10:AK:83:ILE:CG2	2.83	0.42
11:AL:47:LEU:O	11:AL:50:LEU:N	2.41	0.42
11:AL:69:GLY:O	11:AL:70:LYS:O	2.38	0.42
1:AA:1280:A:N3	12:AM:41:PRO:HG3	2.35	0.42
12:AM:23:ILE:CG2	12:AM:85:LEU:HD23	2.49	0.42
13:AN:48:ILE:CG2	13:AN:48:ILE:O	2.59	0.42
13:AN:62:GLN:OE1	13:AN:63:LEU:N	2.52	0.42
1:AA:538:G:H4'	14:AO:114:LYS:HD3	1.98	0.42
14:AO:78:GLN:O	14:AO:81:SER:N	2.53	0.42
14:AO:23:LYS:O	14:AO:97:ARG:HD3	2.20	0.42
15:AP:97:PRO:N	15:AP:110:ARG:HG2	2.34	0.42
15:AP:19:LEU:HB2	15:AP:25:ILE:HG21	2.01	0.42
16:AQ:22:THR:CB	16:AQ:33:VAL:CG2	2.93	0.42
5:AF:12:LEU:HD11	16:AQ:57:ARG:HA	2.02	0.42
17:AR:15:PHE:O	17:AR:16:ALA:C	2.57	0.42
17:AR:33:THR:O	17:AR:36:ILE:CG2	2.67	0.42
20:AU:31:LEU:HD23	20:AU:65:ILE:HG13	2.01	0.42
8:AI:50:TYR:CE1	20:AU:81:PHE:CZ	3.08	0.42
48:B1:19:LEU:HD22	48:B1:23:LYS:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:396:G:H1'	50:B3:39:CYS:SG	2.60	0.42
51:B4:33:CYS:C	51:B4:35:GLU:N	2.73	0.42
38:BQ:99:LYS:HE2	51:B4:43:HIS:CE1	2.54	0.42
52:B5:17:LYS:O	52:B5:19:ARG:N	2.53	0.42
52:B5:35:GLU:HB2	52:B5:52:VAL:HA	2.00	0.42
53:B6:28:ARG:O	53:B6:31:LEU:CB	2.64	0.42
24:BA:1024:G:C6	24:BA:1025:G:C8	3.07	0.42
24:BA:1137:G:C4	24:BA:1138:G:H1'	2.54	0.42
24:BA:1164:G:C4	24:BA:1165:U:C6	3.07	0.42
24:BA:1202:C:C6	24:BA:1203:G:H1'	2.52	0.42
24:BA:1210:A:C8	24:BA:1237:A:N6	2.88	0.42
24:BA:1372:U:C2	24:BA:1373:A:C8	3.08	0.42
24:BA:1492:G:OP1	24:BA:1493:C:OP2	2.38	0.42
24:BA:1537:C:O5'	24:BA:1537:C:C6	2.62	0.42
24:BA:1595:G:C2'	24:BA:1596:A:O5'	2.68	0.42
24:BA:1642:G:C6	24:BA:1643:G:N7	2.87	0.42
24:BA:1672:C:C6	24:BA:1673:U:H6	2.36	0.42
24:BA:1718:G:C3'	24:BA:1718:G:C8	3.02	0.42
24:BA:1778:U:C2'	24:BA:1779:U:C6	2.96	0.42
24:BA:48:G:C1'	24:BA:178:G:N2	2.82	0.42
24:BA:1826:G:OP1	27:BD:233:HIS:CD2	2.72	0.42
24:BA:1829:A:C2	24:BA:1830:C:C1'	3.03	0.42
24:BA:1853:A:N3	24:BA:1854:A:C8	2.88	0.42
24:BA:1913:A:C2	24:BA:1918:A:C4	3.08	0.42
24:BA:1934:C:C5'	24:BA:1974:C:H4'	2.50	0.42
24:BA:2055:C:H4'	24:BA:2056:G:O5'	2.20	0.42
24:BA:2307:G:C8	24:BA:2308:G:C4	3.08	0.42
24:BA:2334:G:C2	39:BR:11:LYS:NZ	2.86	0.42
24:BA:2388:A:C8	24:BA:2389:G:N7	2.88	0.42
24:BA:2459:A:C2'	24:BA:2460:U:C4'	2.90	0.42
24:BA:2520:C:N4	24:BA:2567:G:C5	2.88	0.42
24:BA:2553:G:H8	24:BA:2583:G:H4'	1.77	0.42
24:BA:2701:C:C3'	24:BA:2702:U:C5'	2.82	0.42
24:BA:2702:U:OP1	24:BA:2702:U:C4'	2.67	0.42
24:BA:271:G:H2'	24:BA:271:G:N3	2.34	0.42
24:BA:2543:G:N2	24:BA:2765:A:N3	2.68	0.42
24:BA:2772:C:C2	24:BA:2773:C:H5	2.35	0.42
24:BA:2818:G:H4'	24:BA:2837:G:C4'	2.47	0.42
24:BA:350:U:HO2'	24:BA:351:G:P	2.42	0.42
24:BA:374:A:N3	24:BA:375:C:C1'	2.83	0.42
24:BA:446:G:OP2	24:BA:446:G:C8	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:447:A:N3	24:BA:447:A:H2'	2.35	0.42
24:BA:507:A:H1'	24:BA:509:C:C4	2.55	0.42
24:BA:528:A:O2'	24:BA:529:A:OP1	2.34	0.42
24:BA:581:C:C5'	41:BT:32:PHE:CZ	3.03	0.42
24:BA:619:G:C3'	24:BA:619:G:C8	3.00	0.42
24:BA:635:C:C2'	24:BA:636:G:C5'	2.98	0.42
24:BA:655:A:OP1	24:BA:655:A:H4'	2.19	0.42
24:BA:705:A:C6	24:BA:727:A:N9	2.88	0.42
24:BA:802:A:N7	24:BA:803:U:C5	2.88	0.42
24:BA:87:C:O2	48:B1:46:ARG:NH2	2.52	0.42
24:BA:945:A:O2'	24:BA:946:G:OP1	2.33	0.42
25:BB:75:G:O6	25:BB:102:G:C2	2.72	0.42
25:BB:55:U:C2'	25:BB:56:G:O4'	2.56	0.42
25:BB:65:C:C3'	25:BB:66:A:H5'	2.49	0.42
25:BB:13:A:C6	25:BB:70:C:O4'	2.73	0.42
27:BD:83:GLU:OE1	27:BD:104:TYR:CE1	2.73	0.42
27:BD:21:PHE:O	27:BD:205:VAL:CG2	2.68	0.42
27:BD:276:LYS:CD	27:BD:276:LYS:OXT	2.65	0.42
28:BE:173:VAL:CG1	28:BE:184:VAL:O	2.68	0.42
28:BE:87:GLU:HB3	28:BE:89:ASP:O	2.20	0.42
29:BF:118:ALA:HA	29:BF:122:LYS:CE	2.50	0.42
29:BF:198:ALA:O	29:BF:202:PHE:HB2	2.20	0.42
29:BF:203:GLN:NE2	29:BF:203:GLN:HA	2.35	0.42
29:BF:74:ARG:CZ	29:BF:75:HIS:N	2.83	0.42
31:BH:137:ASP:O	31:BH:141:VAL:HG23	2.19	0.42
31:BH:15:VAL:CG2	31:BH:76:VAL:HG12	2.48	0.42
32:BK:7:GLU:HA	32:BK:14:ASP:OD1	2.18	0.42
32:BK:7:GLU:O	32:BK:12:LEU:HA	2.19	0.42
33:BL:104:VAL:O	33:BL:108:ALA:CB	2.65	0.42
33:BL:130:SER:HA	33:BL:133:SER:CB	2.50	0.42
33:BL:68:VAL:HB	33:BL:70:LYS:HG3	2.02	0.42
34:BM:107:LEU:CD1	34:BM:116:LEU:HD23	2.47	0.42
34:BM:10:GLU:HA	34:BM:11:PRO:HD2	1.89	0.42
34:BM:7:LYS:HD2	34:BM:8:GLN:H	1.84	0.42
36:BO:72:PRO:CG	36:BO:110:TYR:CD2	2.97	0.42
36:BO:128:HIS:HA	36:BO:147:LEU:HD23	2.02	0.42
36:BO:11:GLY:C	36:BO:14:LYS:HE3	2.39	0.42
36:BO:15:ARG:NE	36:BO:15:ARG:HA	2.33	0.42
24:BA:671:C:H5''	36:BO:38:GLN:HG3	2.00	0.42
25:BB:7:G:O3'	39:BR:29:PHE:CE2	2.73	0.42
39:BR:29:PHE:HE1	39:BR:34:HIS:NE2	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2876:G:C4'	40:BS:1:MET:N	2.82	0.42
40:BS:39:ARG:O	40:BS:39:ARG:HG3	2.20	0.42
41:BT:3:ARG:O	41:BT:4:ALA:CB	2.67	0.42
41:BT:39:LEU:O	41:BT:42:ALA:HB3	2.20	0.42
41:BT:59:ARG:HA	41:BT:62:ILE:HD12	2.02	0.42
42:BU:17:GLY:HA3	42:BU:19:LYS:HZ1	1.82	0.42
42:BU:18:LEU:O	42:BU:20:LEU:N	2.53	0.42
42:BU:27:ALA:HB1	42:BU:33:VAL:CB	2.49	0.42
43:BV:7:ALA:N	43:BV:103:ILE:HD13	2.35	0.42
43:BV:58:ALA:HB2	43:BV:107:LEU:HD23	2.01	0.42
43:BV:16:LYS:NZ	43:BV:16:LYS:H	2.11	0.42
44:BW:59:VAL:HG13	44:BW:76:ARG:HB3	2.02	0.42
44:BW:83:VAL:HG21	44:BW:86:GLY:HA2	2.01	0.42
45:BX:75:ILE:C	45:BX:100:ALA:CB	2.88	0.42
45:BX:21:LYS:CB	45:BX:23:ARG:NH1	2.76	0.42
45:BX:7:VAL:HG22	45:BX:71:LYS:CG	2.38	0.42
46:BY:110:GLY:C	46:BY:112:ARG:N	2.72	0.42
46:BY:25:PRO:O	46:BY:85:HIS:HD2	2.03	0.42
3:AD:9:A:C2	3:AD:46:G:C1'	3.00	0.42
24:BA:2127:G:N2	24:BA:2128:C:O2	2.53	0.42
26:BC:89:ALA:CB	26:BC:154:ARG:HH11	2.32	0.42
26:BC:63:SER:O	26:BC:64:LEU:C	2.58	0.42
26:BC:68:LEU:C	26:BC:157:LYS:O	2.58	0.42
26:BC:8:ARG:NH1	26:BC:11:LEU:HG	2.34	0.42
24:BA:171:G:N3	24:BA:172:C:N3	2.68	0.42
1:AA:1020:U:H2'	1:AA:1021:G:C8	2.55	0.42
33:BL:84:LEU:HB3	33:BL:85:GLU:H	1.76	0.42
1:AA:1187:G:C5	1:AA:1188:A:N7	2.87	0.42
1:AA:1194:U:C4	1:AA:1195:C:C4	3.08	0.42
1:AA:962:C:C2'	1:AA:1200:C:H41	2.32	0.42
1:AA:1256:A:O2'	1:AA:1257:U:C1'	2.57	0.42
1:AA:1315:U:C5	1:AA:1316:G:C6	3.07	0.42
1:AA:1329:A:C5'	15:AP:29:ARG:CZ	2.97	0.42
1:AA:1353:G:C4	1:AA:1370:G:N2	2.88	0.42
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.85	0.42
1:AA:1528:U:O2'	1:AA:1529:G:O5'	2.34	0.42
1:AA:1530:G:C2'	1:AA:1531:A:O5'	2.67	0.42
1:AA:229:U:H2'	1:AA:230:G:O4'	2.20	0.42
1:AA:243:A:H62	1:AA:281:G:H2'	1.85	0.42
1:AA:321:A:N1	1:AA:332:G:N2	2.62	0.42
1:AA:389:A:C2	1:AA:390:C:H4'	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:42:G:C6	1:AA:43:C:C4	3.07	0.42
1:AA:573:A:C2	1:AA:574:A:N1	2.88	0.42
1:AA:643:C:H2'	1:AA:644:G:H5'	2.01	0.42
1:AA:664:G:C5'	20:AU:64:ARG:HE	2.31	0.42
1:AA:679:C:C2	1:AA:680:C:C5	3.08	0.42
1:AA:67:C:O2	1:AA:171:A:H2	2.03	0.42
1:AA:687:A:C4	1:AA:704:A:N6	2.87	0.42
1:AA:709:G:H2'	1:AA:710:G:O5'	2.20	0.42
1:AA:717:C:H4'	13:AN:117:ASN:HB2	2.01	0.42
1:AA:761:G:C2	1:AA:762:C:C6	3.08	0.42
1:AA:907:A:C3'	1:AA:908:A:H8	2.33	0.42
2:AC:10:G:C2	2:AC:11:A:C5	3.08	0.42
4:AE:119:GLU:HA	4:AE:142:LEU:HD13	2.01	0.42
4:AE:182:ILE:HG22	4:AE:183:PRO:HD2	2.00	0.42
4:AE:61:LEU:HA	4:AE:64:ARG:NE	2.33	0.42
4:AE:85:ALA:O	4:AE:86:GLU:C	2.57	0.42
5:AF:189:ALA:O	5:AF:195:VAL:HA	2.20	0.42
5:AF:46:GLU:CB	5:AF:47:LEU:HD22	2.45	0.42
7:AH:111:GLU:CG	7:AH:112:LEU:H	2.32	0.42
7:AH:79:GLU:HG2	7:AH:92:LYS:HG3	2.02	0.42
9:AJ:17:VAL:HG12	9:AJ:18:TYR:HD1	1.85	0.42
9:AJ:42:ILE:O	9:AJ:43:PHE:C	2.59	0.42
9:AJ:59:LEU:O	9:AJ:63:LYS:HG2	2.20	0.42
10:AK:111:ILE:CG2	10:AK:134:ILE:HD12	2.49	0.42
10:AK:22:GLU:O	10:AK:62:TYR:CA	2.61	0.42
10:AK:39:LEU:HD13	10:AK:39:LEU:HA	1.62	0.42
12:AM:49:VAL:O	12:AM:60:ARG:CB	2.68	0.42
12:AM:48:THR:HA	12:AM:61:GLU:O	2.19	0.42
13:AN:73:MET:CG	13:AN:103:LEU:HD13	2.49	0.42
13:AN:18:ARG:HG2	13:AN:18:ARG:NH1	2.34	0.42
15:AP:108:ARG:HH12	15:AP:112:GLY:C	2.24	0.42
15:AP:10:PRO:O	15:AP:45:VAL:CG2	2.64	0.42
1:AA:1308:U:OP2	15:AP:99:ARG:HG3	2.19	0.42
16:AQ:22:THR:HG22	16:AQ:33:VAL:HB	2.00	0.42
18:AS:74:LEU:HD22	18:AS:79:VAL:CG2	2.49	0.42
21:AV:15:LEU:O	21:AV:16:LEU:C	2.57	0.42
21:AV:31:ILE:H	21:AV:49:ILE:HA	1.83	0.42
21:AV:3:ARG:O	21:AV:4:SER:HB3	2.20	0.42
22:AW:44:ALA:N	22:AW:52:ALA:HB2	2.35	0.42
23:AX:10:ARG:H	23:AX:10:ARG:HG2	1.50	0.42
49:B2:12:PRO:O	49:B2:15:TYR:CE1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:18:PHE:HZ	53:B6:45:ALA:CB	2.32	0.42
54:B7:60:LEU:O	54:B7:63:PRO:CD	2.62	0.42
24:BA:1010:A:H5'	41:BT:66:ASN:ND2	2.35	0.42
24:BA:1044:G:C4	24:BA:1048:A:C8	3.08	0.42
24:BA:1069:A:C5	24:BA:1073:A:H5''	2.55	0.42
24:BA:1142(A):A:OP1	24:BA:1143:A:H3'	2.20	0.42
24:BA:1206:G:C3'	24:BA:1207:C:O4'	2.67	0.42
24:BA:330:A:O4'	24:BA:1210:A:C2	2.73	0.42
24:BA:1334:G:C4	24:BA:1335:U:C5	3.07	0.42
24:BA:1334:G:C6	24:BA:1335:U:C4	3.08	0.42
24:BA:1386:C:C2	24:BA:1387:C:C5	3.08	0.42
24:BA:140:A:C5	24:BA:141:A:N7	2.87	0.42
24:BA:1526:G:H2'	24:BA:1527:G:C2	2.54	0.42
24:BA:1603:A:H3'	24:BA:1603:A:P	2.59	0.42
24:BA:1605:C:O2'	24:BA:1610:A:C8	2.68	0.42
24:BA:1650:G:O2'	24:BA:1651:G:O5'	2.37	0.42
24:BA:1667:G:O3'	35:BN:7:TYR:OH	2.36	0.42
24:BA:1907:G:N1	24:BA:1908:C:C4	2.88	0.42
24:BA:1909:C:C2'	24:BA:1910:G:H5'	2.48	0.42
24:BA:1930:G:C2	24:BA:1968:G:C8	3.07	0.42
24:BA:2014:A:C2	24:BA:2015:A:N1	2.88	0.42
24:BA:2047:U:C2	24:BA:2048:G:N7	2.88	0.42
24:BA:2063:C:H2'	24:BA:2064:C:O4'	2.19	0.42
24:BA:2077:A:C6	24:BA:2078:C:C4	3.07	0.42
24:BA:2077:A:H5'	24:BA:2078:C:OP2	2.20	0.42
24:BA:2090:G:C2	24:BA:2091:U:N3	2.88	0.42
24:BA:2206:C:H2'	24:BA:2207:C:O5'	2.20	0.42
24:BA:219:G:H2'	24:BA:220:G:O4'	2.20	0.42
24:BA:2210:G:C8	27:BD:150:LYS:O	2.73	0.42
24:BA:2226:C:C2	24:BA:2227:A:C1'	3.03	0.42
24:BA:2296:U:O5'	24:BA:2296:U:C6	2.73	0.42
24:BA:2413:G:H2'	24:BA:2414:G:C4'	2.50	0.42
24:BA:2556:C:H2'	24:BA:2557:G:C5'	2.50	0.42
24:BA:2574:G:C5	24:BA:2575:C:C4	3.08	0.42
24:BA:1966:A:C1'	24:BA:2593:U:H5'	2.35	0.42
24:BA:2603:G:C5	24:BA:2604:U:C5	3.08	0.42
24:BA:2682:U:O2'	24:BA:2683:C:OP1	2.37	0.42
24:BA:2695:C:H2'	24:BA:2696:U:H6	1.79	0.42
24:BA:278:A:O2'	24:BA:279:C:C1'	2.68	0.42
24:BA:2817:G:N2	24:BA:2830:G:H1'	2.34	0.42
24:BA:308:G:C6	24:BA:309:G:C4	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:322:A:O2'	24:BA:340:A:C4	2.72	0.42
24:BA:246:C:H4'	24:BA:385:C:O4'	2.20	0.42
24:BA:416:C:C2	24:BA:2407:G:O6	2.73	0.42
24:BA:281:G:O4'	24:BA:428:A:C8	2.73	0.42
24:BA:18:C:H1'	24:BA:554:U:OP1	2.20	0.42
24:BA:620:G:OP2	24:BA:620:G:O4'	2.38	0.42
24:BA:648:G:O2'	24:BA:649:G:H5'	2.20	0.42
24:BA:766:C:C4	24:BA:767:U:C5	3.08	0.42
24:BA:843:G:N3	24:BA:843:G:C2'	2.83	0.42
24:BA:859:G:H3'	24:BA:859:G:C8	2.54	0.42
24:BA:878:A:N9	24:BA:879:G:N7	2.67	0.42
24:BA:976:C:H4'	24:BA:1156:A:N7	2.34	0.42
24:BA:977:G:C2	24:BA:978:G:N9	2.87	0.42
25:BB:38:C:C4	25:BB:39:A:N7	2.88	0.42
25:BB:83:G:C2	25:BB:84:C:C6	3.08	0.42
27:BD:147:LEU:O	27:BD:154:LYS:HE3	2.18	0.42
27:BD:209:ALA:O	27:BD:210:GLY:C	2.57	0.42
24:BA:1790:C:O3'	27:BD:213:ARG:HD3	2.19	0.42
27:BD:183:ARG:NE	27:BD:268:ARG:HD2	2.35	0.42
24:BA:1816:G:P	27:BD:43:ARG:NE	2.92	0.42
27:BD:64:ILE:C	27:BD:65:ILE:HG12	2.39	0.42
27:BD:7:LYS:HZ3	27:BD:91:ARG:HH11	1.53	0.42
28:BE:133:LYS:HZ2	28:BE:138:PRO:HD2	1.84	0.42
28:BE:199:ARG:CD	28:BE:199:ARG:N	2.82	0.42
28:BE:201:THR:CG2	28:BE:202:LYS:N	2.80	0.42
24:BA:2833:G:C2	28:BE:56:PRO:HB3	2.55	0.42
28:BE:91:VAL:O	28:BE:92:THR:CB	2.67	0.42
29:BF:194:MET:CE	29:BF:200:GLU:CB	2.98	0.42
29:BF:201:VAL:O	29:BF:202:PHE:C	2.58	0.42
29:BF:43:LYS:O	29:BF:44:ARG:C	2.58	0.42
29:BF:46:ARG:NE	29:BF:46:ARG:HA	2.35	0.42
30:BG:137:GLU:CG	30:BG:138:GLN:H	2.33	0.42
30:BG:33:ARG:NH2	30:BG:33:ARG:C	2.58	0.42
30:BG:50:ALA:HA	30:BG:70:VAL:CG2	2.49	0.42
30:BG:75:LYS:HD2	30:BG:85:GLY:N	2.35	0.42
30:BG:39:ILE:CD1	30:BG:92:VAL:O	2.66	0.42
33:BL:7:VAL:CG1	33:BL:58:THR:CG2	2.93	0.42
34:BM:42:TRP:O	34:BM:43:THR:HG23	2.19	0.42
34:BM:91:LEU:O	34:BM:93:THR:N	2.53	0.42
35:BN:11:ALA:HB1	35:BN:97:ARG:HE	1.81	0.42
35:BN:18:LYS:HZ1	35:BN:44:LYS:HZ2	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:93:PRO:O	35:BN:93:PRO:HG2	2.20	0.42
36:BO:123:LEU:CD2	36:BO:134:ALA:HB1	2.50	0.42
24:BA:1245:G:OP1	36:BO:15:ARG:HG2	2.20	0.42
36:BO:77:ARG:NE	36:BO:79:ARG:HB3	2.35	0.42
37:BP:29:PHE:HB2	37:BP:104:PHE:CD2	2.53	0.42
38:BQ:113:LEU:HD13	38:BQ:113:LEU:O	2.19	0.42
38:BQ:63:ARG:HG2	38:BQ:80:PHE:CE2	2.55	0.42
25:BB:51:G:H5''	39:BR:60:GLY:HA2	1.99	0.42
39:BR:49:VAL:CG1	39:BR:76:LYS:HZ2	2.33	0.42
40:BS:54:ARG:N	40:BS:100:TYR:CD2	2.66	0.42
40:BS:106:SER:O	40:BS:107:ASP:C	2.58	0.42
40:BS:92:GLY:C	40:BS:93:ARG:CZ	2.87	0.42
41:BT:65:ILE:HG12	41:BT:95:LEU:CB	2.50	0.42
42:BU:43:GLU:H	42:BU:44:LYS:HZ1	1.66	0.42
41:BT:88:ILE:CA	42:BU:52:VAL:HA	2.46	0.42
41:BT:47:TYR:CE1	42:BU:77:ALA:HA	2.55	0.42
24:BA:2013:A:OP1	43:BV:96:ILE:HA	2.20	0.42
24:BA:1598:C:O2'	44:BW:35:THR:HG23	2.20	0.42
45:BX:14:LEU:HB2	45:BX:20:TYR:H	1.85	0.42
46:BY:10:ARG:NH1	46:BY:36:LYS:HB2	2.35	0.42
47:BZ:40:GLN:NE2	47:BZ:53:MET:CE	2.83	0.42
3:AD:50:G:N2	3:AD:65:U:C2	2.87	0.42
24:BA:2111:C:N4	24:BA:2145:C:C5	2.88	0.42
24:BA:2159:G:H2'	24:BA:2160:G:C8	2.54	0.42
26:BC:75:LEU:CD2	26:BC:110:PHE:CZ	2.97	0.42
26:BC:182:PRO:HG2	26:BC:183:GLU:OE1	2.19	0.42
32:BK:58:LEU:O	32:BK:59:ALA:C	2.57	0.42
32:BK:63:ALA:HA	32:BK:67:ARG:HH21	1.85	0.42
24:BA:2094:G:H2'	24:BA:2095:C:H6	1.85	0.42
25:BB:118:G:C6	25:BB:119:A:N7	2.88	0.42
24:BA:363(D):G:N1	24:BA:363(E):U:C2	2.88	0.42
1:AA:1015:A:O5'	1:AA:1015:A:H8	2.03	0.42
1:AA:1134:G:C3'	1:AA:1135:U:H5'	2.50	0.42
1:AA:1197:G:C8	1:AA:1197:G:O5'	2.73	0.42
1:AA:1336:C:C2'	1:AA:1337:G:OP2	2.67	0.42
1:AA:1339:A:H2'	1:AA:1340:A:C5'	2.33	0.42
1:AA:1363:A:C2	1:AA:1365:G:O6	2.72	0.42
1:AA:1347:G:N2	1:AA:1373:G:N9	2.66	0.42
1:AA:1465:C:H2'	1:AA:1466:C:C5'	2.50	0.42
1:AA:15:G:C5	1:AA:1396:A:C2	3.08	0.42
1:AA:141:A:H1'	1:AA:182:U:O2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:186(D):C:C2	1:AA:186(E):C:C6	3.08	0.42
1:AA:324:G:OP1	22:AW:22:ARG:HD3	2.20	0.42
1:AA:438:G:H5''	1:AA:439:A:OP1	2.20	0.42
1:AA:451:A:O2'	1:AA:452:A:C8	2.73	0.42
1:AA:476:G:N2	1:AA:477:G:C1'	2.78	0.42
1:AA:696:A:N3	1:AA:697:U:O4'	2.52	0.42
1:AA:870:U:O2	1:AA:870:U:H2'	2.20	0.42
1:AA:88:C:O2'	1:AA:89:U:P	2.78	0.42
1:AA:979:C:H2'	1:AA:979:C:O2	2.18	0.42
2:AC:11:A:C2	2:AC:25:C:C2	3.08	0.42
2:AC:38:A:O2'	2:AC:39:C:C5'	2.61	0.42
2:AC:46:G:N3	2:AC:46:G:H2'	2.35	0.42
2:AC:72:A:C6	2:AC:73:A:N6	2.88	0.42
3:AD:35:A:C8	3:AD:36:A:C8	3.08	0.42
4:AE:70:PHE:HE2	4:AE:163:PHE:CB	2.33	0.42
4:AE:163:PHE:CG	4:AE:185:ILE:O	2.73	0.42
4:AE:178:ARG:CZ	4:AE:196:LEU:O	2.67	0.42
4:AE:97:TRP:HH2	4:AE:176:GLU:CG	2.14	0.42
5:AF:128:PHE:CD1	5:AF:128:PHE:N	2.87	0.42
1:AA:1056:U:O2	5:AF:195:VAL:HG23	2.19	0.42
5:AF:206:GLU:CD	5:AF:206:GLU:C	2.78	0.42
5:AF:30:ARG:HG2	5:AF:31:HIS:N	2.35	0.42
5:AF:8:ILE:O	5:AF:11:ARG:N	2.52	0.42
1:AA:407:G:C1'	6:AG:119:GLN:OE1	2.68	0.42
1:AA:404:U:C5'	6:AG:122:ARG:HH11	2.32	0.42
6:AG:148:VAL:CB	6:AG:153:ARG:HG2	2.49	0.42
6:AG:85:LYS:NZ	6:AG:85:LYS:HB2	2.35	0.42
1:AA:8:A:O4'	7:AH:102:ALA:HA	2.20	0.42
8:AI:53:ALA:O	8:AI:55:ASP:OD1	2.38	0.42
9:AJ:11:GLN:NE2	9:AJ:12:LEU:H	2.18	0.42
9:AJ:85:TYR:HB3	9:AJ:151:TYR:CE2	2.54	0.42
9:AJ:6:ARG:HH11	9:AJ:6:ARG:HA	1.85	0.42
10:AK:22:GLU:CA	10:AK:63:LEU:CD1	2.83	0.42
11:AL:7:THR:CG2	11:AL:9:ARG:NH1	2.82	0.42
12:AM:15:THR:HG23	12:AM:16:LEU:N	2.35	0.42
16:AQ:44:LEU:HD23	16:AQ:45:ARG:HB3	2.02	0.42
17:AR:56:LEU:HB3	17:AR:57:LEU:HD13	2.02	0.42
1:AA:136:C:C1'	18:AS:1:MET:CE	2.98	0.42
18:AS:21:VAL:CG2	18:AS:36:ILE:HD11	2.47	0.42
1:AA:468:A:C1'	18:AS:82:GLN:HG2	2.50	0.42
20:AU:53:ARG:HA	20:AU:63:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:36:ARG:C	21:AV:38:SER:H	2.22	0.42
21:AV:63:THR:O	21:AV:64:GLU:O	2.38	0.42
48:B1:12:SER:CB	48:B1:13:PRO:HD2	2.49	0.42
51:B4:35:GLU:OE1	51:B4:51:TYR:CD2	2.73	0.42
51:B4:47:PRO:HG2	51:B4:48:GLU:OE1	2.20	0.42
52:B5:31:PRO:CB	52:B5:34:LEU:HD12	2.42	0.42
24:BA:2347:C:H4'	52:B5:39:TYR:HE1	1.84	0.42
53:B6:48:LYS:HG3	53:B6:49:ARG:H	1.85	0.42
54:B7:14:VAL:CG1	54:B7:22:VAL:HG11	2.40	0.42
24:BA:1049:C:C4	24:BA:1050:A:N7	2.86	0.42
24:BA:1094:U:H3	24:BA:1096:A:C5'	2.33	0.42
24:BA:72:U:C5	24:BA:112:U:H1'	2.55	0.42
24:BA:1162:G:OP2	24:BA:1162:G:H8	2.03	0.42
24:BA:1179:C:OP2	24:BA:1179:C:H6	2.02	0.42
24:BA:1256:G:C6	24:BA:1257:C:C5	3.07	0.42
24:BA:1288:U:H4'	24:BA:1289:C:OP2	2.19	0.42
24:BA:1299:G:H4'	24:BA:1301:A:C4	2.55	0.42
24:BA:1433:U:H6	24:BA:1433:U:C3'	2.33	0.42
24:BA:1471:A:C8	24:BA:1521:G:N1	2.88	0.42
24:BA:1524:G:C6	24:BA:1525:G:C5	3.08	0.42
24:BA:1543:A:H8	24:BA:1544:C:H1'	1.74	0.42
24:BA:1616:A:C5'	24:BA:1617:C:OP1	2.63	0.42
24:BA:1623:G:C8	24:BA:1623:G:C4'	3.03	0.42
24:BA:1672:C:C2'	24:BA:1673:U:OP1	2.67	0.42
24:BA:1743:G:C5	24:BA:1746:G:C5	3.08	0.42
24:BA:1769:G:C2'	24:BA:1770:G:C8	3.03	0.42
24:BA:47:C:N4	24:BA:179:G:O6	2.53	0.42
24:BA:1802:A:P	24:BA:1814:G:H22	2.43	0.42
24:BA:1819:A:C2'	24:BA:1820:U:OP2	2.68	0.42
24:BA:193:U:O2'	24:BA:194:G:H5'	2.19	0.42
24:BA:1991:U:C2'	24:BA:1992:G:OP2	2.65	0.42
24:BA:1668:A:N1	24:BA:1993:U:C2	2.88	0.42
24:BA:2002:G:C6	24:BA:2003:G:N7	2.87	0.42
24:BA:215:G:H4'	24:BA:216:A:C5'	2.45	0.42
24:BA:2210:G:C5	27:BD:70:TRP:CE2	3.08	0.42
24:BA:2209:C:OP2	24:BA:2210:G:OP1	2.37	0.42
24:BA:2230:G:C2	24:BA:2231:C:C2	3.08	0.42
24:BA:2236:C:C6	24:BA:2236:C:C5'	3.03	0.42
24:BA:2269:A:C2'	24:BA:2270:G:C5'	2.98	0.42
24:BA:2286:A:C5'	24:BA:2287:A:OP1	2.67	0.42
24:BA:2313:C:C2	24:BA:2314:C:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:76:A:C5	24:BA:2432:A:C5	3.08	0.42
24:BA:248:G:P	50:B3:28:LYS:HE2	2.60	0.42
24:BA:2497:A:C2'	24:BA:2498:C:OP2	2.66	0.42
24:BA:2531:A:N3	24:BA:2658:C:O2'	2.53	0.42
24:BA:1669:A:O3'	24:BA:2550:G:OP1	2.38	0.42
24:BA:2636:U:C6	24:BA:2636:U:C5'	3.03	0.42
24:BA:2661:G:C2'	24:BA:2662:A:C8	2.83	0.42
24:BA:2729:G:H8	24:BA:2729:G:O5'	2.02	0.42
24:BA:2777:G:H4'	24:BA:2778:A:H5''	2.00	0.42
24:BA:2826:A:C2'	24:BA:2827:C:H5'	2.50	0.42
24:BA:280:C:N4	24:BA:283:A:H62	2.18	0.42
24:BA:2858:C:H5''	24:BA:2859:G:N7	2.34	0.42
24:BA:289:A:C2	24:BA:351:G:C6	3.08	0.42
24:BA:312:G:H5''	24:BA:313:C:OP2	2.20	0.42
24:BA:319:C:C2'	24:BA:320:A:O4'	2.68	0.42
24:BA:355:G:C6	24:BA:356:G:C6	3.08	0.42
24:BA:460:A:C3'	24:BA:461:C:H6	2.33	0.42
24:BA:463:G:O2'	24:BA:464:U:H5	2.03	0.42
24:BA:572:A:C8	24:BA:573:G:C4	3.08	0.42
24:BA:740:U:C2'	24:BA:741:G:O5'	2.68	0.42
24:BA:763:G:C2	24:BA:765:G:C4	3.08	0.42
24:BA:783:A:H4'	24:BA:2588:G:C3'	2.43	0.42
24:BA:851:U:H5''	49:B2:49:LYS:HD2	2.02	0.42
24:BA:870:A:N6	24:BA:871:U:N3	2.68	0.42
24:BA:923:C:C6	24:BA:923:C:C3'	3.03	0.42
24:BA:955:C:OP2	37:BP:18:LYS:HE2	2.19	0.42
24:BA:980:A:C6	24:BA:1135:C:C4'	3.03	0.42
24:BA:988:A:H5''	49:B2:10:LYS:CD	2.45	0.42
24:BA:996:A:H5'	41:BT:93:LYS:CG	2.50	0.42
25:BB:99:A:HO2'	25:BB:100:G:H5'	1.84	0.42
25:BB:77:U:OP1	46:BY:19:ARG:NH2	2.51	0.42
25:BB:90:C:H2'	25:BB:91:C:C6	2.55	0.42
27:BD:145:VAL:N	27:BD:155:LEU:CD2	2.83	0.42
27:BD:132:PRO:CD	27:BD:190:TYR:CE1	3.02	0.42
27:BD:72:LYS:NZ	27:BD:99:ASP:CG	2.73	0.42
27:BD:9:TYR:O	27:BD:10:THR:OG1	2.38	0.42
28:BE:119:ARG:HB3	28:BE:120:TRP:H	1.60	0.42
28:BE:5:LEU:CD2	28:BE:6:GLY:O	2.68	0.42
28:BE:71:GLY:O	28:BE:72:VAL:CG1	2.61	0.42
28:BE:49:LEU:CG	28:BE:74:PRO:HG2	2.43	0.42
29:BF:122:LYS:HE3	29:BF:192:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2303:G:O2'	30:BG:132:ASN:ND2	2.53	0.42
30:BG:17:PRO:CA	30:BG:20:ILE:HB	2.49	0.42
30:BG:61:ALA:N	30:BG:66:GLN:O	2.53	0.42
30:BG:77:ILE:O	30:BG:78:SER:C	2.58	0.42
31:BH:127:GLU:HG2	31:BH:130:ARG:HB2	2.02	0.42
31:BH:33:LEU:HD22	31:BH:35:VAL:HG13	1.98	0.42
31:BH:43:VAL:HG22	31:BH:51:ARG:O	2.20	0.42
32:BK:9:LEU:HB2	32:BK:13:GLY:CA	2.49	0.42
32:BK:27:ARG:HG2	32:BK:28:ASN:H	1.83	0.42
33:BL:71:THR:OG1	33:BL:114:ASP:OD2	2.38	0.42
33:BL:55:VAL:HG22	33:BL:69:THR:CA	2.40	0.42
34:BM:99:LEU:HD12	34:BM:103:VAL:HG11	2.01	0.42
34:BM:55:VAL:HG21	34:BM:129:PRO:HG2	2.02	0.42
35:BN:7:TYR:CB	35:BN:18:LYS:HE3	2.48	0.42
35:BN:57:VAL:O	35:BN:59:LYS:CE	2.67	0.42
29:BF:38:ARG:HH11	36:BO:10:PRO:N	2.15	0.42
36:BO:64:LYS:HD2	36:BO:65:ARG:HG3	2.02	0.42
36:BO:84:ASN:O	36:BO:85:LEU:HG	2.19	0.42
37:BP:25:ASP:C	37:BP:26:TYR:CG	2.87	0.42
37:BP:32:TYR:N	37:BP:32:TYR:CD1	2.87	0.42
37:BP:37:LEU:O	37:BP:38:GLU:OE1	2.38	0.42
37:BP:59:ARG:O	37:BP:60:ARG:HD2	2.20	0.42
24:BA:1650:G:C5'	38:BQ:104:ARG:NH2	2.78	0.42
38:BQ:54:LEU:HA	38:BQ:57:ARG:CB	2.42	0.42
39:BR:17:ARG:NH2	39:BR:89:ARG:CD	2.82	0.42
41:BT:28:ARG:CB	41:BT:38:THR:HG21	2.37	0.42
24:BA:1009:A:C8	41:BT:59:ARG:NE	2.88	0.42
34:BM:37:LYS:CD	41:BT:63:VAL:HG11	2.46	0.42
41:BT:79:PHE:O	41:BT:82:GLY:N	2.52	0.42
41:BT:92:ARG:O	41:BT:95:LEU:HG	2.19	0.42
41:BT:98:LEU:C	41:BT:100:VAL:N	2.73	0.42
42:BU:15:GLU:C	42:BU:100:ARG:HH12	2.24	0.42
42:BU:6:LYS:CE	42:BU:10:LYS:HB3	2.50	0.42
42:BU:21:ARG:C	42:BU:93:GLU:CD	2.77	0.42
43:BV:10:VAL:CB	43:BV:12:ILE:HD11	2.49	0.42
43:BV:24:ILE:HG21	43:BV:36:LEU:HD23	2.01	0.42
44:BW:57:LEU:C	44:BW:58:HIS:HD1	2.23	0.42
46:BY:10:ARG:NH2	46:BY:36:LYS:O	2.53	0.42
46:BY:168:GLU:O	46:BY:169:GLU:CB	2.65	0.42
46:BY:53:ILE:O	46:BY:54:HIS:CD2	2.73	0.42
46:BY:57:ILE:HG23	46:BY:69:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:76:LEU:HD23	46:BY:82:ARG:C	2.41	0.42
46:BY:91:LEU:HD22	46:BY:91:LEU:N	2.35	0.42
47:BZ:25:ARG:HD3	47:BZ:25:ARG:HA	1.62	0.42
47:BZ:27:GLU:HA	47:BZ:67:VAL:HG11	2.02	0.42
47:BZ:38:VAL:CG2	47:BZ:59:LEU:HD12	2.49	0.42
32:BK:128:LEU:O	32:BK:130:TYR:CE1	2.73	0.42
32:BK:140:LEU:HA	32:BK:140:LEU:HD23	1.74	0.42
24:BA:2111:C:C2	24:BA:2145:C:C2	3.08	0.42
26:BC:117:PRO:HA	26:BC:120:MET:CB	2.45	0.42
26:BC:77:ILE:CB	26:BC:123:VAL:HG21	2.44	0.42
26:BC:163:PHE:HA	26:BC:171:ILE:HD11	2.01	0.42
26:BC:8:ARG:O	26:BC:11:LEU:HB3	2.20	0.42
1:AA:1040:U:C2	1:AA:1041:A:C8	3.08	0.42
1:AA:748:C:H1'	1:AA:749:C:H5	1.85	0.42
1:AA:1169:A:OP2	1:AA:1169:A:C8	2.73	0.42
1:AA:160:A:H1'	1:AA:344:A:C5	2.54	0.42
44:BW:11:PRO:O	44:BW:13:LEU:HD21	2.20	0.42
31:BH:99:VAL:O	31:BH:99:VAL:HG12	2.20	0.42
1:AA:1084:G:OP1	1:AA:1086:U:C6	2.73	0.41
1:AA:1228:C:C3'	15:AP:116:THR:HA	2.49	0.41
1:AA:1264:C:N3	1:AA:1272:G:C2	2.88	0.41
1:AA:128:G:H5'	19:AT:2:PRO:CA	2.50	0.41
1:AA:1307:U:H2'	1:AA:1308:U:H6	1.85	0.41
1:AA:130:A:N7	19:AT:63:ARG:HG3	2.35	0.41
1:AA:131:C:O2'	1:AA:262:A:C1'	2.64	0.41
1:AA:1480:G:C6	1:AA:1481:U:C2	3.08	0.41
1:AA:1500:A:H2'	1:AA:1501:C:H6	1.79	0.41
1:AA:1504:G:H3'	1:AA:1504:G:H8	1.83	0.41
1:AA:232:G:C5	1:AA:233:C:C4	3.07	0.41
1:AA:263:A:H8	1:AA:263:A:O5'	2.03	0.41
1:AA:303:A:C5	1:AA:304:U:C6	3.08	0.41
1:AA:52:G:H2'	1:AA:53:A:C5'	2.50	0.41
1:AA:608:A:C2	1:AA:609:A:C1'	3.02	0.41
1:AA:637:G:C6	1:AA:638:G:C5	3.08	0.41
1:AA:716:A:H2'	1:AA:717:C:C5'	2.50	0.41
1:AA:826:C:C4	1:AA:827:U:C5	3.08	0.41
1:AA:853:G:H2'	1:AA:854:G:C8	2.55	0.41
1:AA:964:A:H5''	1:AA:965:A:OP2	2.20	0.41
4:AE:177:ALA:O	4:AE:178:ARG:C	2.58	0.41
4:AE:47:THR:CG2	4:AE:48:MET:HE3	2.51	0.41
5:AF:147:LYS:CB	5:AF:203:PHE:CD2	2.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:78:GLY:C	5:AF:80:GLY:N	2.73	0.41
5:AF:77:ILE:CD1	5:AF:84:ILE:HB	2.48	0.41
6:AG:36:ARG:HG2	6:AG:38:TYR:OH	2.20	0.41
6:AG:62:GLN:O	6:AG:66:ARG:HG3	2.19	0.41
7:AH:7:GLU:HB3	7:AH:112:LEU:HD21	2.01	0.41
7:AH:82:VAL:HG11	7:AH:134:ALA:O	2.20	0.41
7:AH:80:ILE:HA	7:AH:81:GLU:OE2	2.20	0.41
8:AI:76:ALA:HA	8:AI:79:LEU:CG	2.50	0.41
9:AJ:5:ARG:NH1	9:AJ:5:ARG:O	2.41	0.41
9:AJ:91:VAL:O	9:AJ:91:VAL:CG1	2.54	0.41
10:AK:114:THR:OG1	10:AK:119:LEU:HD21	2.19	0.41
10:AK:114:THR:HG22	10:AK:130:GLY:C	2.40	0.41
10:AK:114:THR:CB	10:AK:130:GLY:O	2.68	0.41
10:AK:86:ILE:O	10:AK:88:LYS:N	2.53	0.41
10:AK:87:SER:CB	10:AK:92:ARG:HA	2.50	0.41
10:AK:9:MET:C	10:AK:13:ILE:CD1	2.88	0.41
11:AL:126:SER:HB3	11:AL:127:LYS:H	1.44	0.41
12:AM:90:LEU:H	12:AM:91:PRO:CD	2.29	0.41
13:AN:28:THR:CG2	13:AN:29:ILE:H	2.34	0.41
15:AP:20:THR:O	15:AP:25:ILE:O	2.38	0.41
15:AP:27:LYS:HZ2	15:AP:31:LYS:HZ3	1.65	0.41
15:AP:4:ILE:HD12	15:AP:8:GLU:O	2.20	0.41
15:AP:8:GLU:OE1	15:AP:10:PRO:CD	2.67	0.41
16:AQ:24:CYS:HA	16:AQ:39:LEU:CA	2.49	0.41
17:AR:33:THR:O	17:AR:34:LEU:C	2.57	0.41
17:AR:48:LYS:HA	17:AR:50:HIS:NE2	2.35	0.41
17:AR:61:GLY:C	17:AR:65:ARG:HH12	2.24	0.41
17:AR:82:ILE:HG22	17:AR:83:GLU:N	2.35	0.41
18:AS:4:ILE:N	18:AS:4:ILE:CD1	2.68	0.41
1:AA:761:G:O4'	19:AT:103:GLY:O	2.38	0.41
22:AW:23:ARG:O	22:AW:24:LEU:C	2.58	0.41
48:B1:35:SER:O	48:B1:38:GLN:OE1	2.37	0.41
51:B4:15:ARG:HG2	51:B4:16:ARG:N	2.34	0.41
51:B4:57:VAL:O	51:B4:58:LEU:CB	2.66	0.41
52:B5:8:LYS:HG2	52:B5:29:ASN:HB3	2.01	0.41
24:BA:242:G:C3'	54:B7:4:MET:HE3	2.41	0.41
24:BA:1033:U:H5'	55:B8:16:VAL:HG21	2.02	0.41
24:BA:1005:C:C6	34:BM:28:THR:CG2	3.02	0.41
24:BA:1012:U:O4	34:BM:28:THR:CG2	2.67	0.41
24:BA:1077:A:N7	24:BA:1078:U:C4	2.88	0.41
24:BA:1090:U:C4	24:BA:1103:A:C6	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1094:U:O2	24:BA:1095:A:C8	2.72	0.41
24:BA:1128:A:O2'	24:BA:1129:A:C5'	2.68	0.41
24:BA:1165:U:H2'	24:BA:1166:C:H6	1.78	0.41
24:BA:1227:A:H3'	24:BA:1227:A:C8	2.55	0.41
24:BA:1274:A:H2'	24:BA:1275:A:H5'	2.01	0.41
24:BA:1275:A:O2'	24:BA:1276:A:O5'	2.19	0.41
24:BA:1365:A:N7	24:BA:1366:A:N7	2.68	0.41
24:BA:1363:C:C2	24:BA:1369:G:N1	2.88	0.41
24:BA:137(A):G:C4	24:BA:138:G:N1	2.87	0.41
24:BA:1434:A:C2'	24:BA:1435:G:H5'	2.50	0.41
24:BA:1435:G:C6	24:BA:1436:G:N7	2.88	0.41
24:BA:1444:G:H3'	24:BA:1445:C:H5	1.80	0.41
24:BA:1471:A:H3'	24:BA:1472:A:O4'	2.20	0.41
24:BA:1478:G:O2'	24:BA:1479:G:C5'	2.63	0.41
24:BA:1614:A:H5''	24:BA:1617:C:N4	2.32	0.41
24:BA:1653:G:H1	38:BQ:11:ASN:HD22	1.68	0.41
24:BA:1751:C:H6	24:BA:1751:C:O5'	2.03	0.41
24:BA:1850:G:C2	24:BA:1851:U:H1'	2.55	0.41
24:BA:1906:G:C5	24:BA:1907:G:N7	2.87	0.41
24:BA:1934:C:HO2'	24:BA:1935:G:H5'	1.83	0.41
24:BA:1943:U:O2'	24:BA:1944:U:P	2.78	0.41
24:BA:1668:A:C2	24:BA:1993:U:O2	2.73	0.41
24:BA:2080:G:H2'	24:BA:2081:C:O5'	2.19	0.41
24:BA:2213:U:H5''	24:BA:2215:G:N7	2.31	0.41
24:BA:222:A:C6	24:BA:224:G:C2	3.08	0.41
24:BA:2307:G:H4'	24:BA:2311:A:N1	2.34	0.41
24:BA:2348:U:H3'	54:B7:42:ARG:NH2	2.32	0.41
24:BA:389:G:H1'	24:BA:2413:G:O4'	2.20	0.41
24:BA:2442:C:H2'	24:BA:2443:C:C6	2.56	0.41
24:BA:244:A:N1	24:BA:384:U:O2	2.53	0.41
24:BA:2457:U:C2'	24:BA:2458:G:C5'	2.97	0.41
24:BA:2501:C:C5'	24:BA:2503:A:H1'	2.50	0.41
24:BA:2587:A:C3'	24:BA:2588:G:H5'	2.42	0.41
24:BA:2592:G:N2	24:BA:2603:G:C4	2.88	0.41
24:BA:2603:G:H3'	24:BA:2603:G:C8	2.55	0.41
24:BA:2620:C:H1'	28:BE:156:MET:CG	2.50	0.41
24:BA:2044:C:C6	24:BA:2625:G:N2	2.87	0.41
24:BA:2645:G:O3'	24:BA:2732:G:O2'	2.35	0.41
24:BA:264:C:H2'	24:BA:265:A:H5'	2.02	0.41
24:BA:26:G:C8	24:BA:26:G:O5'	2.73	0.41
24:BA:2743:C:C2	24:BA:2762:G:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2774:C:C3'	24:BA:2775:A:H8	2.31	0.41
24:BA:2776:A:N3	24:BA:2778:A:C8	2.88	0.41
24:BA:2784:C:C2	24:BA:2785:C:C5	3.08	0.41
24:BA:2893:G:H4'	24:BA:2894:G:C1'	2.50	0.41
24:BA:306:U:C5	24:BA:307:G:N9	2.88	0.41
24:BA:309:G:C5	24:BA:330:A:C6	3.08	0.41
24:BA:2:G:H2'	24:BA:3:U:C6	2.55	0.41
24:BA:422:A:N3	24:BA:423:A:O5'	2.53	0.41
24:BA:449:A:N3	24:BA:450:G:C8	2.88	0.41
24:BA:452:G:C2	24:BA:458:G:C2	3.08	0.41
24:BA:546:C:C4	24:BA:547:A:N6	2.88	0.41
24:BA:548:A:H2'	24:BA:549:G:H4'	2.02	0.41
24:BA:691:C:O2	24:BA:692:C:C6	2.73	0.41
24:BA:72:U:C5	24:BA:112:U:O2	2.72	0.41
24:BA:736:C:N4	24:BA:737:C:N4	2.68	0.41
24:BA:776:G:O6	24:BA:793:A:H3'	2.20	0.41
24:BA:687:C:C1'	24:BA:788:A:O4'	2.68	0.41
24:BA:805:G:O2'	24:BA:806:C:P	2.76	0.41
24:BA:805:G:H5'	24:BA:806:C:C5	2.54	0.41
24:BA:996:A:O3'	41:BT:93:LYS:CG	2.66	0.41
25:BB:14:U:C5	25:BB:15:A:N1	2.88	0.41
25:BB:82:G:C4	25:BB:83:G:C8	3.08	0.41
27:BD:218:ARG:HD2	27:BD:218:ARG:HA	1.98	0.41
27:BD:38:LYS:O	27:BD:39:LYS:HG3	2.19	0.41
24:BA:1805:U:O2'	27:BD:51:VAL:CG1	2.68	0.41
27:BD:63:ARG:HH11	27:BD:63:ARG:CA	2.28	0.41
27:BD:82:ILE:CD1	27:BD:92:ILE:C	2.88	0.41
27:BD:7:LYS:CE	27:BD:91:ARG:NH1	2.83	0.41
28:BE:199:ARG:CA	28:BE:200:GLU:OE2	2.67	0.41
29:BF:113:ALA:HB3	29:BF:186:ILE:HD12	2.01	0.41
24:BA:323:G:H8	29:BF:170:LEU:HB2	1.85	0.41
29:BF:182:ASN:ND2	29:BF:185:ASP:OD1	2.51	0.41
29:BF:66:PRO:C	29:BF:68:LYS:H	2.20	0.41
30:BG:102:PHE:O	30:BG:103:LEU:C	2.58	0.41
30:BG:130:ASN:O	30:BG:131:TYR:CB	2.68	0.41
30:BG:117:PHE:CE1	30:BG:137:GLU:HB3	2.55	0.41
30:BG:181:ARG:CB	30:BG:181:ARG:NH2	2.78	0.41
30:BG:51:ARG:O	30:BG:53:LEU:N	2.53	0.41
34:BM:100:GLU:C	34:BM:103:VAL:HG22	2.35	0.41
34:BM:4:TYR:HE1	41:BT:101:ARG:CZ	2.33	0.41
34:BM:19:GLU:CB	34:BM:56:ASN:HB3	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:7:LYS:CD	34:BM:8:GLN:N	2.82	0.41
35:BN:104:ARG:HG3	35:BN:107:ARG:NH1	2.35	0.41
24:BA:244:A:H2'	36:BO:65:ARG:HH22	1.84	0.41
37:BP:43:THR:O	37:BP:47:ILE:CG1	2.68	0.41
37:BP:56:ARG:CG	37:BP:57:HIS:N	2.83	0.41
24:BA:1294:U:H1'	38:BQ:23:ASN:HD22	1.85	0.41
38:BQ:3:HIS:C	38:BQ:3:HIS:ND1	2.70	0.41
39:BR:102:ALA:O	39:BR:104:GLY:N	2.53	0.41
40:BS:5:ALA:O	40:BS:8:LYS:HB2	2.21	0.41
41:BT:52:ARG:HB2	41:BT:55:ARG:CD	2.50	0.41
41:BT:61:TRP:C	41:BT:63:VAL:N	2.72	0.41
41:BT:6:THR:O	41:BT:7:GLY:C	2.58	0.41
41:BT:65:ILE:HG22	41:BT:76:TYR:HE1	1.81	0.41
41:BT:61:TRP:CE3	41:BT:96:ALA:HB3	2.55	0.41
41:BT:98:LEU:CD2	41:BT:98:LEU:N	2.80	0.41
42:BU:60:GLU:OE1	42:BU:100:ARG:C	2.59	0.41
42:BU:90:PRO:O	42:BU:91:TYR:CG	2.73	0.41
45:BX:47:LYS:HZ3	45:BX:51:VAL:CG2	2.23	0.41
45:BX:45:VAL:CA	45:BX:57:GLN:NE2	2.83	0.41
47:BZ:36:ILE:O	47:BZ:36:ILE:HG23	2.20	0.41
47:BZ:41:ARG:CB	47:BZ:41:ARG:HH11	2.26	0.41
47:BZ:46:LYS:HE3	47:BZ:76:GLY:CA	2.50	0.41
47:BZ:27:GLU:CA	47:BZ:67:VAL:HG11	2.50	0.41
32:BK:77:LEU:HD21	32:BK:140:LEU:HB3	2.02	0.41
24:BA:2133:G:H5''	24:BA:2134:A:OP2	2.20	0.41
24:BA:2171:A:C2'	24:BA:2172:U:O5'	2.67	0.41
26:BC:99:ILE:O	26:BC:103:ILE:HG13	2.19	0.41
26:BC:100:ILE:CD1	26:BC:123:VAL:HA	2.50	0.41
26:BC:13:LYS:HB3	26:BC:32:LEU:CD2	2.49	0.41
26:BC:64:LEU:HB3	26:BC:188:ASN:CG	2.40	0.41
28:BE:126:PRO:C	28:BE:135:HIS:O	2.57	0.41
1:AA:1171:G:C4	1:AA:1172:C:C5	3.08	0.41
1:AA:191(C):G:C5	1:AA:191(D):U:C4	3.08	0.41
1:AA:191(D):U:H2'	1:AA:191(E):G:H8	1.85	0.41
24:BA:2340:G:N1	24:BA:2341:G:N7	2.67	0.41
4:AE:130:ARG:CD	4:AE:131:PRO:HD2	2.45	0.41
26:BC:18:LYS:HB3	26:BC:20:TYR:CD2	2.55	0.41
1:AA:343:U:C2'	1:AA:344:A:O5'	2.68	0.41
26:BC:71:GLN:CD	26:BC:72:VAL:HG23	2.40	0.41
24:BA:1415:U:H5''	24:BA:1415:U:H6	1.85	0.41
1:AA:1384:C:O2'	1:AA:1385:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.55	0.41
24:BA:1680:U:H6	24:BA:1680:U:O5'	2.02	0.41
1:AA:1194:U:C5'	7:AH:22:GLY:O	2.69	0.41
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.55	0.41
1:AA:1329:A:H4'	15:AP:29:ARG:CZ	2.51	0.41
1:AA:1386:G:N1	1:AA:1387:G:C5	2.89	0.41
1:AA:1425:U:C2	1:AA:1476:G:C2	3.08	0.41
1:AA:1475:G:O2'	1:AA:1476:G:H5'	2.20	0.41
1:AA:767:A:H1'	1:AA:1525:G:H1'	2.00	0.41
1:AA:1507:A:C2	1:AA:1530:G:H1'	2.55	0.41
1:AA:263:A:C2'	1:AA:264:U:C5'	2.71	0.41
1:AA:332:G:HO2'	1:AA:333:G:H5'	1.73	0.41
1:AA:350:G:N3	1:AA:350:G:H2'	2.35	0.41
1:AA:419:C:OP1	1:AA:513:C:H1'	2.20	0.41
1:AA:439:A:C2	1:AA:496:A:C4	3.08	0.41
1:AA:452:A:C4	1:AA:453:A:N7	2.87	0.41
1:AA:476:G:C2	1:AA:477:G:C8	3.08	0.41
1:AA:517:G:O2'	1:AA:530:G:H5''	2.20	0.41
1:AA:542:G:C2	1:AA:543:C:C6	3.08	0.41
1:AA:600:C:C2	1:AA:601:C:C5	3.08	0.41
1:AA:668:G:C2'	1:AA:669:U:O5'	2.68	0.41
1:AA:692:U:O2	1:AA:694:A:O5'	2.38	0.41
1:AA:706:A:O2'	1:AA:707:C:H5'	2.20	0.41
1:AA:718:G:C5	1:AA:719:C:C4	3.08	0.41
1:AA:723:U:OP2	1:AA:724:G:C8	2.72	0.41
1:AA:790:A:N7	1:AA:791:G:C5	2.87	0.41
1:AA:86:U:C3'	1:AA:87:A:H5'	2.50	0.41
1:AA:934:C:N4	1:AA:939:G:C2	2.87	0.41
1:AA:947:G:H4'	15:AP:109:THR:OG1	2.20	0.41
1:AA:950:U:O2'	1:AA:951:G:H5'	2.20	0.41
1:AA:967:C:C6	1:AA:967:C:O5'	2.59	0.41
1:AA:970:C:H4'	1:AA:972:C:C5	2.55	0.41
2:AC:29:G:C6	2:AC:42:G:N1	2.88	0.41
4:AE:35:GLU:C	4:AE:35:GLU:CD	2.78	0.41
5:AF:172:ARG:HB3	5:AF:172:ARG:NH1	2.34	0.41
5:AF:36:ASP:HA	5:AF:39:ILE:CD1	2.41	0.41
1:AA:404:U:P	6:AG:118:ARG:NH1	2.93	0.41
6:AG:43:HIS:O	6:AG:46:LYS:N	2.42	0.41
7:AH:84:PHE:CB	7:AH:134:ALA:HB2	2.50	0.41
7:AH:15:ARG:HD2	7:AH:27:ARG:O	2.20	0.41
7:AH:60:TYR:O	7:AH:63:ARG:HB2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:64:GLN:HE21	9:AJ:68:ASN:HD21	1.66	0.41
10:AK:13:ILE:O	10:AK:14:ARG:C	2.58	0.41
10:AK:18:ARG:O	10:AK:20:TYR:CZ	2.73	0.41
10:AK:24:THR:C	10:AK:25:ASP:OD1	2.58	0.41
10:AK:67:PRO:O	10:AK:68:ARG:O	2.38	0.41
10:AK:97:VAL:HG13	10:AK:99:GLU:HG3	2.02	0.41
12:AM:48:THR:CG2	12:AM:60:ARG:HB3	2.50	0.41
12:AM:83:GLU:OE1	12:AM:87:THR:N	2.53	0.41
13:AN:105:VAL:O	13:AN:105:VAL:HG12	2.20	0.41
13:AN:18:ARG:NH2	13:AN:36:ASP:O	2.53	0.41
1:AA:683:G:O2'	13:AN:38:ASN:ND2	2.53	0.41
14:AO:100:ILE:HB	14:AO:101:VAL:H	1.54	0.41
15:AP:77:ASN:C	15:AP:80:ARG:HG3	2.40	0.41
17:AR:13:GLN:O	17:AR:14:GLU:C	2.59	0.41
1:AA:750:G:N3	17:AR:23:GLY:HA3	2.35	0.41
17:AR:32:LEU:CB	17:AR:63:ARG:HB3	2.50	0.41
19:AT:29:HIS:CD2	19:AT:32:TYR:HB2	2.55	0.41
19:AT:41:LYS:C	19:AT:42:TYR:HD1	2.24	0.41
20:AU:63:GLN:OE1	20:AU:63:GLN:CA	2.68	0.41
20:AU:73:ALA:O	20:AU:79:LEU:CD1	2.62	0.41
21:AV:8:GLY:O	21:AV:9:VAL:C	2.58	0.41
48:B1:27:LEU:HD11	48:B1:48:LEU:HG	2.02	0.41
48:B1:32:PHE:CD1	48:B1:32:PHE:N	2.87	0.41
49:B2:56:VAL:CG1	49:B2:56:VAL:O	2.68	0.41
55:B8:9:ARG:CG	55:B8:14:CYS:O	2.67	0.41
24:BA:105:C:C2	24:BA:106:C:C5	3.08	0.41
24:BA:10:G:O2'	24:BA:11:G:O5'	2.38	0.41
24:BA:112:U:OP1	48:B1:64:ARG:NH1	2.53	0.41
24:BA:1139:G:C2'	24:BA:1142(A):A:H2	2.32	0.41
24:BA:1227:A:N7	24:BA:1228:G:C8	2.88	0.41
24:BA:1258:C:H5'	29:BF:84:VAL:HG21	2.02	0.41
24:BA:1288:U:C2	24:BA:1327:C:N3	2.88	0.41
24:BA:1296:G:H2'	24:BA:1297:C:O5'	2.20	0.41
24:BA:1464:C:H4'	24:BA:1528:A:C2'	2.43	0.41
24:BA:1557:C:H3'	24:BA:1558:A:C5'	2.50	0.41
24:BA:1791:A:H4'	27:BD:206:LEU:HD23	1.97	0.41
24:BA:1808:U:N3	24:BA:1810:A:N1	2.67	0.41
24:BA:1809:A:O2'	24:BA:1810:A:OP1	2.36	0.41
24:BA:1872:A:C2'	24:BA:1878:G:C5'	2.88	0.41
24:BA:1889:A:C6	24:BA:1890:A:N6	2.89	0.41
24:BA:1894:C:O2'	24:BA:1895:C:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1911:U:C5	24:BA:1913:A:N6	2.71	0.41
24:BA:197:A:O4'	24:BA:2068:U:N3	2.53	0.41
24:BA:1996:C:O2	24:BA:1997:G:C4'	2.67	0.41
24:BA:200:U:C3'	24:BA:201:C:H5'	2.50	0.41
24:BA:2020:A:C2	24:BA:2035:G:C5	3.07	0.41
24:BA:2061:G:N2	24:BA:2063:C:C1'	2.84	0.41
24:BA:2278:A:C6	47:BZ:14:ARG:HB2	2.55	0.41
24:BA:2290:G:C6	24:BA:2291:U:N3	2.89	0.41
24:BA:2306:C:OP2	30:BG:136:ARG:CZ	2.68	0.41
24:BA:2377:A:C2	24:BA:2378:A:C8	3.06	0.41
24:BA:2392:A:O2'	24:BA:2393:A:OP1	2.38	0.41
24:BA:2428:G:C4'	24:BA:2429:G:O5'	2.68	0.41
24:BA:2454:G:O2'	24:BA:2455:G:H5'	2.20	0.41
24:BA:1672:C:C2	24:BA:2582:G:O4'	2.72	0.41
24:BA:270(D):C:O2	24:BA:270(D):C:C2'	2.62	0.41
24:BA:270(I):G:N2	24:BA:270(J):G:H1'	2.33	0.41
24:BA:2734:A:N3	28:BE:203:LYS:HD3	2.35	0.41
24:BA:2896:C:C2'	24:BA:2897:U:O5'	2.68	0.41
24:BA:296:C:C4	24:BA:297:C:C4	3.09	0.41
24:BA:513:A:C6	24:BA:514:A:C8	3.09	0.41
24:BA:55:G:C2	24:BA:56:A:N7	2.88	0.41
24:BA:587:C:N4	24:BA:671:C:C6	2.88	0.41
24:BA:670:A:H4'	24:BA:671:C:O5'	2.18	0.41
24:BA:67:U:H6	24:BA:67:U:C4'	2.33	0.41
24:BA:780:G:C5	24:BA:782:A:N6	2.88	0.41
24:BA:776:G:N3	24:BA:793:A:N6	2.68	0.41
24:BA:811:U:OP2	36:BO:28:GLY:CA	2.68	0.41
24:BA:88:G:H2'	24:BA:89:G:C5'	2.50	0.41
24:BA:870:A:C2	24:BA:908:C:C2	3.08	0.41
24:BA:957:A:C4'	24:BA:958:U:OP1	2.56	0.41
25:BB:54:G:H2'	25:BB:55:U:H6	1.84	0.41
25:BB:57:A:N3	30:BG:29:TRP:CD1	2.88	0.41
25:BB:82:G:O2'	25:BB:83:G:O5'	2.38	0.41
27:BD:259:THR:HG22	27:BD:260:ARG:N	2.35	0.41
28:BE:101:ARG:NH2	28:BE:171:GLU:CG	2.63	0.41
28:BE:136:ARG:NE	28:BE:136:ARG:C	2.74	0.41
28:BE:178:GLU:HB2	28:BE:179:GLU:H	1.66	0.41
29:BF:133:ASN:HD22	29:BF:162:LEU:CD2	2.32	0.41
29:BF:37:VAL:O	29:BF:41:LEU:HD23	2.20	0.41
30:BG:120:LEU:CA	30:BG:180:PHE:HB3	2.50	0.41
30:BG:122:PRO:O	30:BG:123:ASN:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:47:LYS:NZ	30:BG:49:ASP:CG	2.74	0.41
30:BG:2:PRO:C	30:BG:5:VAL:HB	2.39	0.41
31:BH:98:LEU:HD22	31:BH:100:GLY:CA	2.50	0.41
31:BH:51:ARG:HD3	31:BH:52:VAL:H	1.85	0.41
31:BH:95:ARG:O	31:BH:105:LEU:CA	2.66	0.41
33:BL:103:GLN:O	33:BL:106:GLU:CG	2.67	0.41
24:BA:1080:C:C1'	33:BL:126:MET:HA	2.38	0.41
33:BL:60:TYR:O	33:BL:61:ALA:O	2.38	0.41
33:BL:89:HIS:O	33:BL:90:LYS:CG	2.67	0.41
24:BA:1140:C:H5''	34:BM:65:LYS:NZ	2.35	0.41
34:BM:96:GLU:CG	34:BM:97:ARG:HD3	2.41	0.41
35:BN:29:ASN:O	35:BN:30:ALA:O	2.38	0.41
35:BN:19:ILE:CB	35:BN:43:VAL:HA	2.50	0.41
36:BO:136:GLU:HB3	36:BO:137:LYS:NZ	2.35	0.41
36:BO:13:ASN:HB2	36:BO:17:LYS:HD3	2.02	0.41
36:BO:78:PRO:O	36:BO:81:GLN:CB	2.55	0.41
37:BP:16:ARG:N	37:BP:16:ARG:CD	2.80	0.41
38:BQ:39:PRO:HA	38:BQ:42:LYS:CG	2.50	0.41
41:BT:110:VAL:HG12	41:BT:114:LYS:HZ2	1.83	0.41
41:BT:113:ALA:O	41:BT:114:LYS:C	2.58	0.41
41:BT:10:ARG:C	41:BT:12:ARG:N	2.70	0.41
42:BU:93:GLU:OE2	42:BU:95:LEU:HD22	2.20	0.41
43:BV:25:ARG:HA	43:BV:71:VAL:CG1	2.47	0.41
43:BV:60:ASN:HD22	43:BV:61:ASN:ND2	2.18	0.41
43:BV:84:ARG:O	43:BV:96:ILE:CD1	2.68	0.41
24:BA:65:C:H1'	44:BW:66:LEU:HD13	2.01	0.41
44:BW:50:LYS:HZ3	44:BW:85:PRO:CD	2.32	0.41
45:BX:8:LYS:HE3	45:BX:28:LYS:HE3	2.02	0.41
46:BY:122:ARG:CD	46:BY:122:ARG:N	2.75	0.41
46:BY:79:ARG:O	46:BY:80:ARG:CG	2.67	0.41
46:BY:80:ARG:HD3	46:BY:82:ARG:NH2	2.35	0.41
25:BB:77:U:H4'	46:BY:84:GLU:CD	2.40	0.41
47:BZ:40:GLN:HB3	47:BZ:45:PHE:CD1	2.55	0.41
47:BZ:49:LYS:N	47:BZ:80:HIS:CE1	2.79	0.41
47:BZ:65:GLY:CA	47:BZ:81:VAL:HG12	2.44	0.41
32:BK:130:TYR:O	32:BK:138:ILE:CG2	2.67	0.41
3:AD:54:U:H2'	3:AD:55:U:O4'	2.20	0.41
24:BA:2166:G:N2	24:BA:2172:U:N3	2.68	0.41
24:BA:2178:C:H5''	26:BC:46:LYS:HZ3	1.85	0.41
26:BC:113:VAL:HG11	26:BC:138:PRO:HD3	2.02	0.41
26:BC:91:ALA:HA	26:BC:153:ILE:CG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:209:LEU:C	26:BC:209:LEU:HD23	2.41	0.41
26:BC:43:VAL:CG1	26:BC:213:TYR:O	2.66	0.41
32:BK:61:ARG:O	32:BK:62:LYS:C	2.58	0.41
1:AA:1167:A:OP1	1:AA:1167:A:H8	2.02	0.41
24:BA:1845:G:C4	24:BA:1896:G:N2	2.88	0.41
1:AA:1013:G:C3'	1:AA:1013:G:C8	3.03	0.41
1:AA:1087:G:C2	1:AA:1099:G:N3	2.88	0.41
1:AA:1131:G:C8	1:AA:1131:G:C3'	3.03	0.41
1:AA:1228:C:O2	1:AA:1228:C:H2'	2.19	0.41
1:AA:1270:C:H2'	1:AA:1271:G:O5'	2.19	0.41
1:AA:1255:G:N2	1:AA:1276:G:N2	2.68	0.41
1:AA:1296:C:C4	1:AA:1297:C:N4	2.88	0.41
1:AA:1353:G:C2	1:AA:1354:C:C4	3.07	0.41
1:AA:129(A):G:C2'	1:AA:189:U:C5	2.90	0.41
1:AA:132:C:N3	1:AA:231:G:C2	2.88	0.41
1:AA:278:G:N2	1:AA:279:A:N6	2.65	0.41
1:AA:322:C:H2'	1:AA:323:U:C5'	2.50	0.41
1:AA:350:G:C2	1:AA:351:G:N1	2.88	0.41
1:AA:59:A:C1'	1:AA:388:G:H5''	2.50	0.41
1:AA:498:A:O2'	1:AA:500:G:H8	1.99	0.41
1:AA:564:C:C5	1:AA:565:U:C4	3.08	0.41
1:AA:581:G:H2'	1:AA:582:U:OP2	2.20	0.41
1:AA:583:A:C4	1:AA:759:A:N6	2.88	0.41
1:AA:626:U:H2'	1:AA:627:G:C8	2.55	0.41
1:AA:626:U:H5''	18:AS:38:TYR:CE2	2.55	0.41
1:AA:66:G:C4'	1:AA:173:U:O4	2.65	0.41
1:AA:690:G:N2	1:AA:691:G:O4'	2.54	0.41
1:AA:712:A:O2'	1:AA:713:G:O4'	2.36	0.41
1:AA:743:U:C2	1:AA:744:C:C5	3.07	0.41
1:AA:654:G:C4	1:AA:753:A:C4	3.08	0.41
1:AA:760:G:N1	19:AT:104:LYS:O	2.53	0.41
1:AA:825:G:N2	1:AA:826:C:C2	2.89	0.41
1:AA:938:A:O2'	1:AA:939:G:H5'	2.20	0.41
1:AA:959:A:H1'	1:AA:985:C:C1'	2.48	0.41
3:AD:42:C:C2	3:AD:43:A:C8	3.08	0.41
4:AE:105:PHE:HD1	4:AE:108:ILE:HB	1.85	0.41
4:AE:142:LEU:HA	4:AE:145:LEU:HB2	2.02	0.41
4:AE:167:PRO:O	4:AE:170:GLU:N	2.53	0.41
4:AE:222:ILE:H	4:AE:222:ILE:HG13	1.70	0.41
5:AF:16:ARG:HH12	5:AF:184:TYR:H	1.67	0.41
6:AG:130:GLY:C	6:AG:131:ARG:HH11	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:133:VAL:HG11	6:AG:138:TYR:HD1	1.86	0.41
6:AG:148:VAL:O	6:AG:181:MET:HE1	2.19	0.41
6:AG:56:VAL:O	6:AG:59:ARG:CB	2.57	0.41
6:AG:4:TYR:CZ	6:AG:5:ILE:O	2.73	0.41
6:AG:88:VAL:C	6:AG:90:GLY:N	2.69	0.41
7:AH:102:ALA:HB3	7:AH:106:PRO:HB2	2.01	0.41
7:AH:74:GLY:O	7:AH:117:ASP:OD2	2.38	0.41
7:AH:11:ILE:O	7:AH:13:ILE:CD1	2.68	0.41
7:AH:39:GLY:O	7:AH:68:GLU:OE2	2.38	0.41
7:AH:79:GLU:C	7:AH:80:ILE:CG1	2.88	0.41
8:AI:50:TYR:CE1	20:AU:81:PHE:CE2	3.07	0.41
9:AJ:101:LEU:C	9:AJ:101:LEU:CD2	2.87	0.41
9:AJ:113:GLU:OE1	9:AJ:118:VAL:CG1	2.62	0.41
9:AJ:23:VAL:O	9:AJ:24:THR:C	2.59	0.41
9:AJ:23:VAL:O	9:AJ:26:PHE:N	2.53	0.41
10:AK:98:LYS:HA	10:AK:100:ILE:CD1	2.50	0.41
10:AK:39:LEU:C	10:AK:45:ILE:HG23	2.38	0.41
1:AA:1291:G:H4'	11:AL:38:GLN:O	2.20	0.41
12:AM:8:LEU:CD2	12:AM:95:GLU:C	2.89	0.41
14:AO:33:ARG:HE	14:AO:33:ARG:HA	1.85	0.41
1:AA:1228:C:H4'	15:AP:115:LYS:C	2.40	0.41
15:AP:91:ARG:HB3	15:AP:98:VAL:CB	2.51	0.41
16:AQ:25:VAL:HG12	16:AQ:39:LEU:HD23	2.01	0.41
16:AQ:45:ARG:HG3	16:AQ:46:GLU:N	2.36	0.41
18:AS:7:ALA:HB3	18:AS:18:ARG:CB	2.47	0.41
19:AT:27:PHE:CD2	19:AT:36:ILE:HD11	2.55	0.41
22:AW:54:LYS:H	22:AW:54:LYS:HG3	1.64	0.41
48:B1:4:GLN:O	48:B1:8:ALA:HB2	2.21	0.41
49:B2:41:PRO:O	49:B2:44:ARG:HB3	2.20	0.41
50:B3:67:TYR:C	50:B3:69:LYS:N	2.71	0.41
52:B5:24:GLU:HG2	54:B7:37:SER:CB	2.51	0.41
52:B5:52:VAL:HG12	52:B5:53:LYS:N	2.34	0.41
54:B7:1:MET:CB	54:B7:2:PRO:CD	2.98	0.41
54:B7:26:LYS:O	54:B7:27:THR:HG23	2.20	0.41
55:B8:7:VAL:HG13	55:B8:34:GLN:HB3	2.01	0.41
24:BA:1071:G:C8	24:BA:1089:G:C6	3.08	0.41
24:BA:1088:A:H2'	24:BA:1089:G:OP1	2.20	0.41
24:BA:108:U:O2'	24:BA:109:G:O5'	2.35	0.41
24:BA:1168:G:C6	24:BA:1169:G:C6	3.09	0.41
24:BA:1206:G:C2'	24:BA:1207:C:C4'	2.94	0.41
24:BA:122:G:OP1	24:BA:149:A:O2'	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1241:A:P	24:BA:1241:A:C2	3.12	0.41
24:BA:1202:C:C2	24:BA:1244:G:N2	2.88	0.41
24:BA:1303:G:C5	24:BA:1304:C:C4	3.07	0.41
24:BA:124:G:OP1	24:BA:1376:C:C1'	2.68	0.41
24:BA:1395:A:C6	24:BA:1398:C:C2	3.08	0.41
24:BA:1407:C:O2'	24:BA:1408:C:C5'	2.65	0.41
24:BA:1412:A:C6	24:BA:1591:G:C6	3.07	0.41
24:BA:1420:U:O2'	24:BA:1421:G:H5''	2.19	0.41
24:BA:1426:G:H2'	24:BA:1427:A:OP1	2.20	0.41
24:BA:1444(A):A:C4	24:BA:1444(A):A:OP2	2.73	0.41
24:BA:1525:G:H2'	24:BA:1526:G:O5'	2.18	0.41
24:BA:1593:G:H2'	24:BA:1594:G:O4'	2.20	0.41
24:BA:1682:G:C3'	24:BA:1683:C:C6	3.02	0.41
24:BA:1782:C:H5'	24:BA:2609:U:N3	2.36	0.41
24:BA:1792:G:C2'	24:BA:1793:C:H5'	2.50	0.41
24:BA:1911:U:C2'	24:BA:1912:A:C5'	2.92	0.41
24:BA:1916:A:N3	24:BA:1917:U:OP2	2.53	0.41
24:BA:1968:G:O2'	24:BA:1969:A:C8	2.52	0.41
24:BA:197:A:C2	24:BA:198:C:C1'	3.02	0.41
24:BA:2018:G:H2'	24:BA:2019:A:C1'	2.51	0.41
24:BA:2056:G:H2'	24:BA:2057:A:O4'	2.20	0.41
24:BA:2087:G:C6	24:BA:2088:G:C5	3.08	0.41
24:BA:2090:G:H2'	24:BA:2091:U:C6	2.54	0.41
24:BA:2213:U:C3'	24:BA:2213:U:C2	3.03	0.41
24:BA:2255:G:H21	47:BZ:9:SER:CB	2.33	0.41
24:BA:965:C:O5'	24:BA:2273:A:H1'	2.19	0.41
24:BA:2312:U:OP2	30:BG:86:MET:HE2	2.20	0.41
24:BA:2481:G:O2'	24:BA:2482:G:C5'	2.68	0.41
24:BA:2447:G:C8	24:BA:2501:C:C5	3.08	0.41
24:BA:2526:G:C2'	24:BA:2527:C:H5'	2.48	0.41
24:BA:2544:G:H5'	24:BA:2645:G:C8	2.45	0.41
24:BA:2553:G:C5'	24:BA:2554:U:OP2	2.67	0.41
24:BA:2697:G:O2'	24:BA:2698:U:C5'	2.68	0.41
24:BA:2773:C:P	28:BE:164:ARG:NH2	2.93	0.41
24:BA:2882:A:OP1	38:BQ:96:ARG:CG	2.67	0.41
24:BA:421:U:OP2	24:BA:421:U:H6	2.03	0.41
24:BA:457:A:C1'	24:BA:459:U:C2	3.03	0.41
24:BA:528:A:C8	24:BA:528:A:C3'	3.03	0.41
24:BA:57:C:C6	24:BA:57:C:O5'	2.73	0.41
24:BA:592:G:N2	24:BA:666:G:C4	2.88	0.41
24:BA:603:A:C6	24:BA:625:G:C5	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:607:U:O2	24:BA:608:A:C8	2.73	0.41
24:BA:624:C:C4'	24:BA:624:C:C6	3.03	0.41
24:BA:630:G:O2'	24:BA:631:A:P	2.72	0.41
24:BA:659:C:O2'	24:BA:660:G:C5'	2.62	0.41
24:BA:662:G:O2'	24:BA:663:G:H8	2.03	0.41
24:BA:686:G:C5'	24:BA:687:C:OP2	2.68	0.41
24:BA:69:C:H2'	24:BA:69:C:O2	2.20	0.41
24:BA:71:A:O3'	24:BA:71:A:OP2	2.38	0.41
24:BA:814:C:C4'	24:BA:1224:G:H22	2.33	0.41
24:BA:933:A:O2'	24:BA:934:G:H5'	2.20	0.41
24:BA:831:G:H3'	24:BA:944:G:N2	2.36	0.41
24:BA:965:C:C2'	24:BA:966:G:H5'	2.50	0.41
24:BA:973:A:C2'	24:BA:974:G:C5'	2.98	0.41
24:BA:976:C:N4	24:BA:988:A:N3	2.64	0.41
25:BB:112:G:H5''	25:BB:113:C:OP2	2.20	0.41
25:BB:73:A:N6	46:BY:29:TYR:OH	2.54	0.41
25:BB:88:C:O2	25:BB:88:C:C2'	2.67	0.41
27:BD:96:HIS:CE1	27:BD:102:LYS:HE2	2.54	0.41
27:BD:117:VAL:HG13	27:BD:129:ASN:CG	2.40	0.41
27:BD:208:LYS:HE3	27:BD:211:ARG:CZ	2.50	0.41
24:BA:1816:G:OP2	27:BD:43:ARG:HD2	2.21	0.41
28:BE:133:LYS:CE	28:BE:137:HIS:CB	2.98	0.41
28:BE:59:VAL:C	28:BE:62:PRO:HD2	2.40	0.41
28:BE:53:PRO:HD3	28:BE:74:PRO:HA	1.99	0.41
29:BF:154:VAL:HG12	29:BF:191:ARG:CB	2.29	0.41
29:BF:167:ALA:O	29:BF:173:VAL:HG22	2.21	0.41
24:BA:2304:G:C5'	30:BG:132:ASN:HD21	2.31	0.41
30:BG:37:VAL:HG12	30:BG:157:ILE:CD1	2.50	0.41
31:BH:116:GLU:HA	31:BH:117:PRO:HD2	1.78	0.41
31:BH:37:VAL:HA	31:BH:41:MET:CE	2.49	0.41
32:BK:3:VAL:HG21	32:BK:21:VAL:HG23	2.01	0.41
32:BK:4:ILE:HG12	32:BK:38:LEU:CA	2.49	0.41
33:BL:104:VAL:CG1	33:BL:124:ALA:HA	2.51	0.41
33:BL:115:LEU:CD2	33:BL:126:MET:SD	3.08	0.41
33:BL:20:ALA:CB	33:BL:21:PRO:CD	2.94	0.41
33:BL:7:VAL:HA	33:BL:58:THR:CB	2.50	0.41
33:BL:95:LYS:HG2	33:BL:137:GLU:CD	2.40	0.41
34:BM:15:LEU:CD2	34:BM:137:LYS:C	2.87	0.41
35:BN:94:ARG:HG3	35:BN:95:GLY:C	2.40	0.41
36:BO:64:LYS:N	36:BO:64:LYS:HD2	2.36	0.41
36:BO:77:ARG:HG2	36:BO:79:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:102:VAL:HG22	37:BP:104:PHE:CE2	2.55	0.41
37:BP:124:LYS:HE2	37:BP:125:LEU:HG	2.01	0.41
37:BP:42:ILE:O	37:BP:42:ILE:CG2	2.68	0.41
37:BP:6:ARG:NE	37:BP:8:LYS:HG2	2.34	0.41
38:BQ:20:LEU:CD1	38:BQ:21:TYR:N	2.83	0.41
39:BR:39:ILE:HG13	39:BR:48:LEU:HB3	2.02	0.41
40:BS:28:VAL:HG12	40:BS:29:ARG:N	2.34	0.41
40:BS:65:LYS:HD3	40:BS:75:ILE:CB	2.51	0.41
41:BT:49:HIS:C	41:BT:51:LYS:N	2.73	0.41
41:BT:97:ASP:HB2	41:BT:98:LEU:HD22	2.01	0.41
24:BA:992:C:C2'	42:BU:91:TYR:OH	2.69	0.41
43:BV:12:ILE:N	43:BV:12:ILE:HD13	2.35	0.41
44:BW:33:LYS:O	44:BW:34:ALA:C	2.59	0.41
45:BX:61:ILE:O	45:BX:62:GLU:HG2	2.20	0.41
45:BX:95:LYS:CG	45:BX:96:ILE:N	2.83	0.41
46:BY:111:VAL:HG22	46:BY:116:VAL:O	2.20	0.41
46:BY:168:GLU:CD	46:BY:169:GLU:H	2.22	0.41
46:BY:180:VAL:HG12	46:BY:180:VAL:O	2.20	0.41
46:BY:41:LEU:O	46:BY:45:ASP:OD1	2.38	0.41
47:BZ:44:ARG:HA	47:BZ:46:LYS:HZ2	1.83	0.41
24:BA:2116:G:O6	24:BA:2162:G:OP1	2.38	0.41
24:BA:2123:G:C6	24:BA:2124:G:C6	3.09	0.41
26:BC:101:GLN:O	26:BC:102:LYS:C	2.59	0.41
26:BC:208:PHE:O	26:BC:210:ARG:HG3	2.20	0.41
26:BC:53:ARG:N	26:BC:53:ARG:HD3	2.35	0.41
24:BA:1416:G:HO2'	24:BA:1583:A:N6	2.19	0.41
24:BA:1585:C:O5'	24:BA:1585:C:H6	2.02	0.41
1:AA:1002:G:C2	1:AA:1003:G:N7	2.88	0.41
1:AA:1037:C:C4	1:AA:1038:C:C4	3.08	0.41
14:AO:102:ARG:CZ	14:AO:109:GLY:CA	2.96	0.41
1:AA:1044:A:C5	1:AA:1045:C:H1'	2.54	0.41
1:AA:1114:C:H4'	16:AQ:57:ARG:HH22	1.86	0.41
1:AA:1196:U:H4'	1:AA:1197:G:C5'	2.51	0.41
1:AA:122:G:O5'	1:AA:122:G:C8	2.74	0.41
1:AA:1282:C:O2	1:AA:1282:C:H2'	2.20	0.41
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.37	0.41
1:AA:1415:G:C6	1:AA:1416:G:N7	2.89	0.41
1:AA:1418:A:C2'	1:AA:1419:G:H5'	2.46	0.41
1:AA:1443:G:O5'	1:AA:1446:A:P	2.78	0.41
1:AA:168:G:N1	1:AA:169:C:N4	2.68	0.41
1:AA:242:C:C2	1:AA:285:G:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:352:C:O2	1:AA:352:C:C2'	2.67	0.41
1:AA:513:C:O5'	1:AA:513:C:H6	2.03	0.41
1:AA:563:A:C4	1:AA:567:G:C8	3.09	0.41
1:AA:563:A:H1'	1:AA:566:G:HO2'	1.82	0.41
1:AA:604:G:H2'	1:AA:605:U:O4'	2.20	0.41
1:AA:632:A:H2'	1:AA:633:G:C8	2.53	0.41
1:AA:757:U:H5'	1:AA:878:G:H21	1.86	0.41
1:AA:768:A:C5	1:AA:769:G:N7	2.88	0.41
1:AA:791:G:C6	1:AA:792:A:N6	2.83	0.41
1:AA:803:G:H2'	1:AA:804:U:O5'	2.19	0.41
1:AA:888:G:C2	1:AA:909:A:N6	2.88	0.41
1:AA:955:U:N3	1:AA:956:U:C5	2.88	0.41
2:AC:68:C:N3	2:AC:69:C:C4	2.88	0.41
3:AD:31:A:C5	3:AD:32:C:C4	3.08	0.41
4:AE:101:MET:HA	4:AE:108:ILE:CB	2.47	0.41
4:AE:148:TYR:CD1	4:AE:148:TYR:N	2.89	0.41
4:AE:169:LYS:NZ	4:AE:170:GLU:OE1	2.53	0.41
4:AE:222:ILE:O	4:AE:226:ARG:HB2	2.14	0.41
5:AF:91:LEU:HD11	5:AF:99:VAL:HG13	2.03	0.41
6:AG:10:ARG:HD3	6:AG:10:ARG:C	2.40	0.41
6:AG:43:HIS:HB3	6:AG:46:LYS:CB	2.49	0.41
6:AG:65:ARG:CD	6:AG:72:GLU:HA	2.49	0.41
7:AH:150:ARG:HD3	7:AH:150:ARG:HA	1.73	0.41
7:AH:27:ARG:C	7:AH:28:PHE:CD2	2.93	0.41
8:AI:47:ARG:NH1	8:AI:47:ARG:HG3	2.35	0.41
8:AI:86:ARG:O	8:AI:87:ARG:NH1	2.52	0.41
9:AJ:73:MET:CE	9:AJ:146:GLU:HB2	2.50	0.41
9:AJ:74:GLU:HB3	9:AJ:91:VAL:HG22	1.96	0.41
10:AK:10:LEU:HB3	10:AK:83:ILE:CD1	2.51	0.41
10:AK:126:LYS:HE3	10:AK:127:LEU:HB2	2.03	0.41
10:AK:6:ILE:CD1	10:AK:85:ARG:NE	2.83	0.41
11:AL:23:ASN:ND2	11:AL:23:ASN:C	2.71	0.41
12:AM:25:GLU:HA	12:AM:28:ARG:HB2	2.02	0.41
12:AM:35:SER:N	12:AM:73:ASP:O	2.53	0.41
14:AO:117:ARG:HA	14:AO:119:LYS:O	2.20	0.41
14:AO:11:VAL:HG13	19:AT:29:HIS:HD2	1.85	0.41
14:AO:18:VAL:HB	14:AO:19:ARG:H	1.33	0.41
14:AO:69:TYR:CD2	14:AO:71:PRO:N	2.89	0.41
16:AQ:22:THR:CG2	16:AQ:33:VAL:O	2.55	0.41
1:AA:1187:G:C1'	16:AQ:61:TRP:OXT	2.67	0.41
18:AS:73:LEU:HD22	18:AS:73:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:277:C:C5'	19:AT:68:ARG:NH1	2.83	0.41
19:AT:7:THR:CG2	19:AT:56:VAL:HG12	2.50	0.41
19:AT:87:LYS:HA	19:AT:87:LYS:HD3	1.44	0.41
20:AU:36:ASN:HB3	20:AU:40:LEU:HD21	2.02	0.41
20:AU:23:LYS:HD2	20:AU:58:LEU:CD2	2.50	0.41
21:AV:12:ASP:O	21:AV:16:LEU:HD13	2.20	0.41
21:AV:18:LYS:HG2	21:AV:31:ILE:HG21	2.03	0.41
21:AV:42:PRO:O	21:AV:44:MET:N	2.54	0.41
21:AV:69:HIS:HB2	21:AV:74:PHE:CZ	2.55	0.41
22:AW:104:LEU:HA	22:AW:104:LEU:HD23	1.84	0.41
22:AW:89:ARG:O	22:AW:92:LEU:C	2.58	0.41
24:BA:96:G:O4'	48:B1:43:HIS:CE1	2.74	0.41
49:B2:5:LYS:HZ2	49:B2:59:VAL:CG2	2.33	0.41
50:B3:5:ILE:HD11	50:B3:10:VAL:HG21	1.94	0.41
50:B3:68:ARG:CB	50:B3:68:ARG:NH1	2.75	0.41
51:B4:40:LYS:CD	51:B4:41:PRO:O	2.68	0.41
53:B6:21:ARG:O	53:B6:24:THR:HG23	2.21	0.41
54:B7:7:HIS:O	54:B7:10:ALA:HB3	2.21	0.41
24:BA:1063:G:C8	24:BA:1064:C:H5	2.39	0.41
24:BA:105:C:H2'	24:BA:106:C:H6	1.85	0.41
24:BA:1000:A:C6	24:BA:1155:A:C5	3.09	0.41
24:BA:1170:G:C2	24:BA:1180:C:N3	2.88	0.41
24:BA:1210:A:C5	24:BA:1237:A:C6	3.08	0.41
24:BA:578:A:OP1	24:BA:1255:U:C4'	2.67	0.41
24:BA:1272:A:H2'	24:BA:1273:U:C5'	2.50	0.41
24:BA:1312:U:O2	24:BA:1313:U:H1'	2.19	0.41
24:BA:141(A):C:O2'	44:BW:37:THR:HG21	2.21	0.41
24:BA:1424:G:O2'	24:BA:1425:G:H5'	2.20	0.41
24:BA:1469:A:H61	24:BA:1522:G:H1	1.68	0.41
24:BA:1558:A:O2'	24:BA:1559:G:N7	2.29	0.41
24:BA:1571:A:C2'	24:BA:1571:A:N3	2.84	0.41
24:BA:1608:A:C5	24:BA:1611:C:C5	3.08	0.41
24:BA:1619:G:C2'	24:BA:1620:G:H5'	2.50	0.41
24:BA:1685:C:C2	24:BA:1686:C:C5	3.08	0.41
24:BA:1694:C:O2	24:BA:1694:C:C2'	2.69	0.41
24:BA:1748:G:N2	24:BA:1749:A:N3	2.68	0.41
24:BA:1773:A:C6	24:BA:1829:A:C1'	2.97	0.41
24:BA:1820:U:C2'	24:BA:1821:A:OP1	2.68	0.41
24:BA:1831:G:C5	24:BA:1832:C:C4	3.09	0.41
24:BA:1830:C:C2	24:BA:1831:G:C8	3.09	0.41
24:BA:1931:U:C5	24:BA:1932:A:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1932:A:C8	24:BA:1933:G:N7	2.88	0.41
24:BA:1987:G:N3	24:BA:1988:C:C5	2.88	0.41
24:BA:2051:A:O2'	28:BE:141:ILE:CD1	2.56	0.41
24:BA:2215:G:O5'	24:BA:2215:G:H8	1.99	0.41
24:BA:2227:A:C4	24:BA:2228:G:C8	3.09	0.41
24:BA:229:A:O2'	24:BA:230:U:O5'	2.37	0.41
24:BA:2436:G:O6	24:BA:2437:U:C4	2.74	0.41
24:BA:2438:U:O3'	24:BA:2439:A:H3'	2.21	0.41
24:BA:2060:A:O2'	24:BA:2502:G:O4'	2.37	0.41
24:BA:2615:U:H2'	24:BA:2616:C:C6	2.54	0.41
24:BA:2616:C:H3'	24:BA:2617:C:C6	2.55	0.41
24:BA:2638:G:N7	24:BA:2775:A:N1	2.69	0.41
24:BA:266:G:HO2'	24:BA:267:C:P	2.43	0.41
24:BA:2705:A:N7	24:BA:2706:G:C5	2.89	0.41
24:BA:269:U:C6	24:BA:270(Z):U:OP2	2.73	0.41
24:BA:2781:A:H2'	24:BA:2782:G:C4'	2.50	0.41
24:BA:2810:A:H1'	28:BE:61:ARG:HH22	1.85	0.41
24:BA:2840:C:C2	24:BA:2841:C:C5	3.09	0.41
24:BA:284:U:P	24:BA:284:U:H3'	2.60	0.41
24:BA:2852:G:C2'	24:BA:2853:C:O5'	2.68	0.41
24:BA:2856:C:C4	24:BA:2862:G:N1	2.89	0.41
24:BA:1710:C:C2'	24:BA:2858:C:H42	2.33	0.41
24:BA:2863:C:C2	24:BA:2864:G:N7	2.89	0.41
24:BA:295:G:C3'	24:BA:338:G:H22	2.34	0.41
24:BA:398:G:H5''	24:BA:2090:G:O4'	2.20	0.41
24:BA:410:G:N2	24:BA:2407:G:C8	2.88	0.41
24:BA:459:U:O2'	24:BA:460:A:H5'	2.19	0.41
24:BA:508:G:H4'	24:BA:509:C:C5'	2.51	0.41
24:BA:547:A:C5	24:BA:548:A:C5	3.08	0.41
24:BA:596:G:H2'	24:BA:597:U:O4'	2.21	0.41
24:BA:659:C:C2'	24:BA:660:G:O5'	2.68	0.41
24:BA:687:C:C3'	24:BA:688:U:C6	3.03	0.41
24:BA:731:C:N3	24:BA:732:C:C5	2.88	0.41
24:BA:748:G:N7	24:BA:750:A:C5	2.89	0.41
24:BA:815:C:H2'	24:BA:816:C:C6	2.55	0.41
24:BA:849:A:C2'	24:BA:850:C:H5'	2.51	0.41
24:BA:874:G:C2	24:BA:904:C:N3	2.88	0.41
24:BA:948:G:H1'	24:BA:984:A:C4	2.56	0.41
24:BA:963:U:N3	24:BA:964:C:C5	2.89	0.41
25:BB:62:C:O2'	25:BB:63:G:C5'	2.68	0.41
27:BD:131:LEU:HD12	27:BD:132:PRO:CD	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:149:PRO:O	27:BD:150:LYS:HB2	2.20	0.41
27:BD:176:ARG:NH1	27:BD:176:ARG:HG3	2.34	0.41
24:BA:2596:U:C3'	27:BD:242:ARG:CZ	2.97	0.41
27:BD:243:GLY:O	27:BD:244:ARG:HG2	2.21	0.41
27:BD:244:ARG:C	27:BD:252:TRP:NE1	2.73	0.41
24:BA:1799:G:N7	27:BD:268:ARG:NH1	2.67	0.41
24:BA:1818:U:P	27:BD:88:ARG:NH1	2.93	0.41
28:BE:5:LEU:HD22	28:BE:6:GLY:N	2.35	0.41
29:BF:194:MET:HE3	29:BF:194:MET:HB2	1.77	0.41
29:BF:194:MET:HE3	29:BF:200:GLU:HB3	1.99	0.41
30:BG:21:ARG:HH11	30:BG:26:GLN:C	2.23	0.41
31:BH:137:ASP:HB3	31:BH:140:LYS:HD3	2.01	0.41
31:BH:154:PRO:O	31:BH:155:SER:HB3	2.19	0.41
31:BH:15:VAL:HG22	31:BH:17:VAL:HB	2.01	0.41
32:BK:24:GLY:O	32:BK:27:ARG:CB	2.66	0.41
33:BL:11:GLN:HE21	33:BL:73:PRO:CG	2.26	0.41
34:BM:11:PRO:C	34:BM:12:ARG:HD2	2.41	0.41
34:BM:32:THR:O	34:BM:35:ARG:CG	2.68	0.41
34:BM:87:LEU:CD2	34:BM:88:GLU:CD	2.89	0.41
34:BM:94:HIS:O	34:BM:98:VAL:HG23	2.20	0.41
35:BN:120:GLU:C	35:BN:122:LEU:N	2.74	0.41
35:BN:31:LYS:O	35:BN:32:TYR:CG	2.73	0.41
35:BN:34:THR:O	35:BN:61:VAL:HG21	2.20	0.41
35:BN:23:ARG:HD3	35:BN:40:VAL:HG11	2.01	0.41
35:BN:42:SER:HA	35:BN:55:GLY:O	2.21	0.41
35:BN:53:LYS:HG3	35:BN:55:GLY:N	2.35	0.41
35:BN:63:VAL:HB	35:BN:78:ARG:HG3	2.03	0.41
36:BO:112:LEU:CB	36:BO:128:HIS:CE1	3.00	0.41
36:BO:35:HIS:ND1	36:BO:36:LYS:HG2	2.35	0.41
36:BO:79:ARG:CD	36:BO:83:VAL:HG11	2.50	0.41
37:BP:36:ALA:HB3	37:BP:101:ARG:H	1.85	0.41
37:BP:25:ASP:CG	37:BP:102:VAL:HG12	2.40	0.41
37:BP:102:VAL:CG1	37:BP:104:PHE:CZ	3.03	0.41
37:BP:124:LYS:CE	37:BP:125:LEU:HD23	2.50	0.41
37:BP:75:THR:CG2	37:BP:89:ASN:O	2.67	0.41
39:BR:40:ILE:HG22	39:BR:41:ASP:H	1.79	0.41
39:BR:48:LEU:HD21	39:BR:81:GLY:CA	2.51	0.41
41:BT:17:ILE:O	41:BT:20:LEU:HB2	2.20	0.41
41:BT:55:ARG:CB	41:BT:58:ARG:HE	2.33	0.41
41:BT:84:LYS:O	41:BT:86:ALA:N	2.54	0.41
42:BU:25:LEU:HD23	42:BU:94:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:56:SER:O	42:BU:57:VAL:CG2	2.68	0.41
42:BU:83:ARG:CD	42:BU:83:ARG:C	2.88	0.41
43:BV:14:PRO:HD3	43:BV:78:GLU:CD	2.37	0.41
44:BW:55:ASN:O	44:BW:79:ALA:HB1	2.20	0.41
45:BX:76:CYS:HA	45:BX:77:PRO:HD2	1.96	0.41
45:BX:83:THR:CB	45:BX:84:ARG:HH11	2.32	0.41
46:BY:48:PHE:CB	46:BY:54:HIS:HE2	2.33	0.41
32:BK:145:VAL:HG13	32:BK:146:ALA:N	2.35	0.41
24:BA:2169:A:C2	24:BA:2170:A:C5	3.09	0.41
26:BC:127:LEU:O	26:BC:130:ILE:HB	2.19	0.41
26:BC:185:LEU:CD2	26:BC:185:LEU:N	2.78	0.41
26:BC:45:ALA:HB2	26:BC:213:TYR:H	1.85	0.41
26:BC:44:HIS:O	26:BC:45:ALA:HB2	2.21	0.41
32:BK:134:PRO:HB2	32:BK:135:GLU:CD	2.32	0.41
1:AA:1451:A:H2'	1:AA:1452:C:OP1	2.19	0.41
3:AD:20:U:O2	3:AD:20:U:C2'	2.68	0.41
1:AA:1064:G:C4	1:AA:1066:C:N4	2.88	0.41
1:AA:1108:G:C5	1:AA:1109:C:N4	2.88	0.41
1:AA:1151:A:C5	1:AA:1152:A:N7	2.88	0.41
1:AA:1187:G:N3	1:AA:1188:A:C8	2.89	0.41
1:AA:1195:C:O2	1:AA:1195:C:H2'	2.20	0.41
1:AA:1050:G:OP1	1:AA:1215:G:OP1	2.38	0.41
1:AA:1282:C:O2	1:AA:1283:G:C8	2.73	0.41
1:AA:128:G:H5''	19:AT:2:PRO:HA	2.03	0.41
1:AA:934:C:C5	1:AA:1344:C:C4	3.08	0.41
1:AA:1433:A:N6	1:AA:1434:A:N1	2.68	0.41
1:AA:1518:A:N1	1:AA:1519:A:N1	2.68	0.41
1:AA:194:C:O2'	1:AA:195:A:C5'	2.69	0.41
1:AA:20:U:C2'	1:AA:21:G:H5'	2.50	0.41
1:AA:256:U:H6	1:AA:256:U:O5'	2.04	0.41
1:AA:269:C:O2'	1:AA:270:A:H5'	2.21	0.41
1:AA:271:C:N3	1:AA:272:C:C5	2.89	0.41
1:AA:285:G:C2	1:AA:286:G:C8	3.07	0.41
1:AA:292:G:H3'	1:AA:293:G:C8	2.55	0.41
1:AA:383:A:O2'	1:AA:384:G:H5'	2.20	0.41
1:AA:414:A:H2'	1:AA:415:A:O4'	2.21	0.41
1:AA:558:G:C5'	1:AA:559:A:H5''	2.41	0.41
1:AA:864:A:C6	1:AA:865:A:C6	3.08	0.41
1:AA:87:A:H2'	1:AA:88:C:C5'	2.50	0.41
1:AA:924:C:C2'	1:AA:925:G:O5'	2.68	0.41
2:AC:6:G:C4	2:AC:7:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:28:G:C2	3:AD:29:C:C4	3.08	0.41
3:AD:34:G:H3'	3:AD:35:A:C5'	2.50	0.41
4:AE:223:ILE:O	4:AE:226:ARG:HB3	2.19	0.41
4:AE:33:TYR:CD2	4:AE:43:ASP:CA	3.02	0.41
4:AE:87:ARG:C	4:AE:89:GLY:H	2.23	0.41
5:AF:123:GLN:HA	5:AF:128:PHE:CZ	2.55	0.41
5:AF:59:ARG:NE	5:AF:64:VAL:HG22	2.35	0.41
1:AA:8:A:C1'	7:AH:102:ALA:O	2.55	0.41
7:AH:121:LYS:HZ1	7:AH:122:GLU:C	2.22	0.41
7:AH:65:ASN:ND2	7:AH:136:MET:CE	2.79	0.41
7:AH:26:PHE:C	7:AH:27:ARG:CG	2.88	0.41
8:AI:33:TYR:HE2	8:AI:74:ASP:CB	2.24	0.41
8:AI:95:GLU:OE1	8:AI:95:GLU:C	2.58	0.41
9:AJ:115:ARG:HB2	9:AJ:118:VAL:HG21	1.91	0.41
9:AJ:138:LYS:O	9:AJ:139:GLU:C	2.56	0.41
10:AK:26:VAL:CB	10:AK:27:PRO:HD2	2.50	0.41
11:AL:2:GLU:O	11:AL:20:ARG:HB3	2.20	0.41
11:AL:51:ARG:O	11:AL:52:ALA:C	2.58	0.41
11:AL:23:ASN:N	11:AL:59:PHE:C	2.69	0.41
11:AL:27:THR:HG21	11:AL:62:TYR:HE1	1.85	0.41
11:AL:17:VAL:HG21	11:AL:77:ILE:O	2.21	0.41
1:AA:1178:G:OP2	11:AL:93:ARG:NH1	2.54	0.41
11:AL:93:ARG:HH22	11:AL:97:LYS:HE2	1.85	0.41
12:AM:39:PRO:O	12:AM:70:ARG:NH1	2.53	0.41
13:AN:21:ILE:HD13	13:AN:98:LEU:HD11	2.03	0.41
1:AA:35:G:N3	14:AO:118:SER:OG	2.53	0.41
14:AO:27:LEU:O	14:AO:29:GLY:N	2.52	0.41
15:AP:14:ARG:HA	15:AP:44:ARG:CA	2.43	0.41
15:AP:44:ARG:HD2	15:AP:44:ARG:HA	1.83	0.41
18:AS:4:ILE:HG22	18:AS:21:VAL:CG1	2.49	0.41
18:AS:8:ARG:HD3	18:AS:9:PHE:O	2.21	0.41
20:AU:21:LYS:HZ3	20:AU:24:ALA:H	1.66	0.41
20:AU:70:ILE:CG2	20:AU:74:ARG:HE	2.33	0.41
21:AV:64:GLU:CG	21:AV:65:ASN:H	2.28	0.41
22:AW:53:LEU:C	22:AW:56:MET:HB2	2.41	0.41
49:B2:28:LEU:C	49:B2:33:GLN:HE22	2.23	0.41
50:B3:10:VAL:O	50:B3:12:ALA:N	2.53	0.41
50:B3:14:ILE:HG22	50:B3:37:SER:CA	2.51	0.41
54:B7:13:ARG:NH1	54:B7:13:ARG:HG3	2.35	0.41
54:B7:26:LYS:O	54:B7:27:THR:HG22	2.21	0.41
24:BA:1024:G:H5''	24:BA:1025:G:H3'	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1063:G:N7	24:BA:1064:C:C5	2.88	0.41
24:BA:1133:U:O2'	24:BA:1136:G:OP1	2.23	0.41
24:BA:1179:C:H2'	24:BA:1180:C:C5	2.55	0.41
24:BA:1189:A:H2'	24:BA:1190:G:C5'	2.49	0.41
24:BA:331:A:C6	24:BA:1209:G:C4	3.09	0.41
24:BA:1218:C:H2'	24:BA:1219:G:O5'	2.21	0.41
24:BA:1274:A:C2'	24:BA:1275:A:C5'	2.98	0.41
24:BA:1286:A:H2'	24:BA:1288:U:OP2	2.21	0.41
24:BA:1366:A:N1	24:BA:1367:A:C4	2.89	0.41
24:BA:1384:A:H1'	24:BA:1405:U:H1'	2.02	0.41
24:BA:1477:A:N1	24:BA:1516:U:N3	2.69	0.41
24:BA:1554:A:O2'	24:BA:1555:G:P	2.76	0.41
24:BA:1567:A:H2'	24:BA:1567:A:N3	2.36	0.41
24:BA:1603:A:C6	24:BA:1604:C:C4	3.08	0.41
24:BA:1665:A:C2	24:BA:1666:G:C5	3.09	0.41
24:BA:1669:A:H4'	24:BA:2550:G:P	2.60	0.41
24:BA:1703:G:C2'	24:BA:1704:G:C5'	2.94	0.41
24:BA:1718:G:H3'	24:BA:1718:G:H8	1.86	0.41
24:BA:1749:A:C6	24:BA:1750:G:N7	2.88	0.41
24:BA:1754:C:C4	24:BA:1755:A:C5	3.09	0.41
24:BA:1773:A:N7	24:BA:1774:C:N3	2.69	0.41
24:BA:1928:A:H3'	24:BA:1929:G:C5'	2.51	0.41
24:BA:1995:U:C5	24:BA:1996:C:C4	3.09	0.41
24:BA:2000:G:OP2	38:BQ:2:ARG:CA	2.62	0.41
24:BA:2000:G:N1	24:BA:2001:A:N7	2.67	0.41
24:BA:2043:C:O2	24:BA:2044:C:C6	2.74	0.41
24:BA:2207:C:C3'	24:BA:2208:U:C5'	2.97	0.41
24:BA:2239:G:C6	24:BA:2240:C:C5	3.08	0.41
24:BA:2291:U:O5'	24:BA:2291:U:H6	2.03	0.41
24:BA:2300:G:C5	24:BA:2301:C:C5	3.09	0.41
24:BA:2317:C:N4	24:BA:2318:G:C6	2.88	0.41
24:BA:2393:A:OP2	54:B7:32:LEU:CD1	2.68	0.41
24:BA:2425:A:OP2	24:BA:2427:C:H5''	2.21	0.41
24:BA:2451:A:H3'	24:BA:2451:A:C8	2.55	0.41
24:BA:2454:G:C2'	24:BA:2455:G:H5'	2.51	0.41
24:BA:2454:G:H2'	24:BA:2455:G:H5'	2.01	0.41
24:BA:2491:U:H3'	24:BA:2492:U:H5'	2.03	0.41
24:BA:2061:G:N7	24:BA:2501:C:H1'	2.36	0.41
24:BA:2479:G:H5''	24:BA:2537:U:O4'	2.21	0.41
24:BA:2553:G:C6	24:BA:2583:G:O2'	2.73	0.41
24:BA:244:A:N3	24:BA:255:A:C2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(F):U:C4	24:BA:270(G):C:C5	3.08	0.41
24:BA:27:G:C8	24:BA:27:G:C3'	3.03	0.41
24:BA:2805:G:H2'	24:BA:2807:G:H5''	2.02	0.41
24:BA:2838:G:O2'	24:BA:2839:G:H5'	2.21	0.41
24:BA:2721:A:C2	24:BA:2873:A:C2	3.08	0.41
24:BA:2893:G:H2'	24:BA:2894:G:OP2	2.21	0.41
24:BA:344:G:N2	24:BA:345:A:N1	2.68	0.41
24:BA:350:U:H2'	24:BA:351:G:OP1	2.21	0.41
24:BA:412:A:C6	24:BA:413:C:C2	3.08	0.41
24:BA:528:A:C8	24:BA:2042:A:N6	2.87	0.41
24:BA:587:C:C4'	24:BA:588:U:OP2	2.59	0.41
24:BA:64:A:H1'	44:BW:66:LEU:CD2	2.49	0.41
24:BA:64:A:H2	44:BW:66:LEU:HD13	1.86	0.41
24:BA:669:G:N3	24:BA:669:G:C3'	2.83	0.41
24:BA:702:G:H2'	24:BA:703:U:C5'	2.51	0.41
24:BA:703:U:H3'	24:BA:704:G:O4'	2.20	0.41
24:BA:71:A:C2	24:BA:73:A:N1	2.89	0.41
24:BA:729:G:C6	24:BA:730:C:C4	3.07	0.41
24:BA:777:A:H2'	24:BA:778:G:O5'	2.19	0.41
24:BA:788:A:H5''	24:BA:789:A:C5'	2.51	0.41
24:BA:6:A:C2	24:BA:7:G:N7	2.88	0.41
24:BA:819:A:C2	24:BA:820:A:C4	3.08	0.41
24:BA:965:C:H4'	24:BA:2273:A:H1'	2.01	0.41
25:BB:14:U:C6	25:BB:15:A:N1	2.88	0.41
25:BB:62:C:N3	25:BB:63:G:N7	2.68	0.41
26:BC:205:LYS:HA	26:BC:205:LYS:HD2	1.65	0.41
27:BD:183:ARG:CZ	27:BD:268:ARG:HD2	2.50	0.41
27:BD:214:TRP:CD1	27:BD:219:PRO:CB	3.04	0.41
24:BA:1567:A:H5'	27:BD:59:LYS:HE2	1.96	0.41
28:BE:171:GLU:H	28:BE:185:LYS:HD2	1.84	0.41
28:BE:188:VAL:N	28:BE:189:PRO:CD	2.82	0.41
28:BE:8:LYS:HD3	28:BE:9:VAL:H	1.80	0.41
29:BF:194:MET:SD	29:BF:194:MET:C	2.99	0.41
29:BF:34:TRP:HA	29:BF:34:TRP:CE3	2.55	0.41
30:BG:105:LYS:CE	30:BG:142:PRO:HB2	2.50	0.41
30:BG:105:LYS:C	30:BG:109:VAL:HG22	2.38	0.41
30:BG:125:PHE:HB3	30:BG:126:ASP:H	1.66	0.41
30:BG:45:GLU:CD	30:BG:77:ILE:HD13	2.41	0.41
30:BG:53:LEU:HG	30:BG:72:ARG:HH21	1.85	0.41
30:BG:55:LYS:HD3	30:BG:58:GLN:CD	2.41	0.41
30:BG:71:THR:O	30:BG:88:ILE:CD1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:80:PHE:C	30:BG:83:ARG:NH2	2.74	0.41
31:BH:102:ALA:C	31:BH:123:PHE:CE2	2.93	0.41
31:BH:137:ASP:CB	31:BH:140:LYS:HB3	2.41	0.41
31:BH:66:GLY:HA2	31:BH:69:ARG:HD3	2.02	0.41
33:BL:128:ALA:HB1	33:BL:132:ARG:CZ	2.50	0.41
33:BL:75:SER:HA	33:BL:78:ILE:HG22	2.02	0.41
34:BM:55:VAL:CB	34:BM:130:HIS:CE1	2.95	0.41
34:BM:13:TRP:O	34:BM:138:LEU:CB	2.68	0.41
34:BM:26:LEU:O	34:BM:26:LEU:HD12	2.21	0.41
34:BM:33:LEU:HD11	34:BM:34:LEU:HG	2.02	0.41
35:BN:11:ALA:O	35:BN:97:ARG:NH1	2.54	0.41
35:BN:78:ARG:HH21	40:BS:74:ARG:HB3	1.85	0.41
35:BN:78:ARG:HD3	35:BN:99:PHE:HE1	1.85	0.41
36:BO:127:ALA:O	36:BO:128:HIS:CB	2.69	0.41
36:BO:23:PRO:C	36:BO:28:GLY:HA2	2.40	0.41
36:BO:75:ILE:O	36:BO:101:VAL:HG12	2.19	0.41
37:BP:16:ARG:NH2	37:BP:71:ASP:O	2.43	0.41
37:BP:11:LYS:HE2	37:BP:73:PRO:HG3	2.01	0.41
37:BP:75:THR:HB	37:BP:77:LYS:HD2	2.01	0.41
38:BQ:28:LEU:HD13	38:BQ:29:LEU:CA	2.49	0.41
38:BQ:97:VAL:HG13	38:BQ:114:VAL:HG21	2.02	0.41
39:BR:10:ARG:NH2	39:BR:91:PRO:CB	2.83	0.41
41:BT:110:VAL:O	41:BT:113:ALA:N	2.53	0.41
43:BV:18:ARG:O	43:BV:19:LEU:C	2.59	0.41
43:BV:95:ILE:N	43:BV:95:ILE:CD1	2.60	0.41
44:BW:14:SER:O	44:BW:18:TYR:CD1	2.73	0.41
44:BW:5:TYR:O	44:BW:5:TYR:HD1	2.03	0.41
24:BA:338:G:OP1	45:BX:2:ARG:NH2	2.54	0.41
45:BX:61:ILE:N	45:BX:61:ILE:HD12	2.35	0.41
45:BX:65:ALA:CB	45:BX:66:PRO:HD3	2.42	0.41
45:BX:97:ARG:NH2	45:BX:101:LYS:CD	2.82	0.41
46:BY:99:TYR:CD1	46:BY:126:VAL:HG22	2.55	0.41
46:BY:139:VAL:HG11	46:BY:155:LEU:O	2.21	0.41
47:BZ:71:ASP:C	47:BZ:73:GLY:N	2.73	0.41
26:BC:210:ARG:O	26:BC:211:SER:C	2.58	0.41
26:BC:64:LEU:HB3	26:BC:188:ASN:ND2	2.36	0.41
26:BC:97:GLU:HB3	26:BC:126:LYS:NZ	2.35	0.41
24:BA:2106:G:C4	24:BA:2107:C:C6	3.08	0.41
24:BA:164:U:O2	24:BA:171:G:O4'	2.39	0.41
1:AA:1164:G:C2'	1:AA:1165:C:H5'	2.50	0.41
1:AA:1173:G:C6	1:AA:1174:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:273:ARG:CZ	27:BD:273:ARG:O	2.68	0.41
24:BA:132:G:C2	24:BA:133:C:C5	3.08	0.41
1:AA:161:A:N6	1:AA:162:A:C6	2.88	0.41
24:BA:986:C:C6	24:BA:986:C:O5'	2.69	0.41
1:AA:102:G:C5	1:AA:103:C:C5	3.09	0.41
1:AA:1085:U:H5'	1:AA:1094:G:H21	1.84	0.41
1:AA:1132:C:C4	1:AA:1133:G:C5	3.09	0.41
1:AA:1243:C:OP2	23:AX:10:ARG:CD	2.69	0.41
1:AA:1364:U:O2'	1:AA:1365:G:P	2.79	0.41
1:AA:1431:C:H5''	40:BS:110:ILE:CG2	2.34	0.41
1:AA:1433:A:C2	1:AA:1468:A:C2	3.08	0.41
1:AA:186:C:H2'	1:AA:186(A):C:C6	2.55	0.41
1:AA:199:G:O2'	1:AA:200:G:H5'	2.21	0.41
1:AA:275:G:H2'	1:AA:276:G:O5'	2.21	0.41
1:AA:306:G:C3'	1:AA:307:C:C5	3.00	0.41
1:AA:322:C:N3	1:AA:323:U:C2	2.88	0.41
1:AA:380:G:C6	1:AA:384:G:O6	2.74	0.41
1:AA:411:A:H3'	1:AA:411:A:H8	1.85	0.41
1:AA:47:C:C5	1:AA:365:U:C2	3.09	0.41
1:AA:666:G:N1	1:AA:741:G:C4	2.89	0.41
1:AA:769:G:C2	1:AA:770:C:C6	3.09	0.41
1:AA:813:U:H2'	1:AA:814:A:C8	2.56	0.41
1:AA:828:A:OP1	1:AA:828:A:H4'	2.19	0.41
1:AA:857:C:H2'	1:AA:858:G:C5'	2.50	0.41
1:AA:988:G:N1	1:AA:989:C:C2	2.89	0.41
2:AC:72:A:C2	2:AC:73:A:C2	3.09	0.41
4:AE:47:THR:CG2	4:AE:202:PRO:HG2	2.50	0.41
4:AE:83:MET:HG3	4:AE:238:LEU:HD21	2.03	0.41
4:AE:35:GLU:C	4:AE:36:ARG:HD2	2.40	0.41
5:AF:189:ALA:HB1	5:AF:196:LEU:CD2	2.50	0.41
5:AF:187:ALA:CB	5:AF:198:VAL:HG22	2.50	0.41
5:AF:73:PRO:HG2	5:AF:74:GLY:N	2.35	0.41
6:AG:101:LEU:CG	6:AG:102:ASP:N	2.82	0.41
6:AG:110:PHE:CZ	6:AG:147:ALA:HA	2.55	0.41
6:AG:206:PHE:CD2	6:AG:207:TYR:CD1	3.03	0.41
6:AG:33:MET:HE3	6:AG:33:MET:H	1.85	0.41
7:AH:103:GLY:C	7:AH:106:PRO:HD2	2.40	0.41
8:AI:8:ILE:CG2	8:AI:88:VAL:CG2	2.99	0.41
9:AJ:74:GLU:HA	9:AJ:145:ALA:HB3	2.02	0.41
10:AK:100:ILE:HD13	10:AK:125:ARG:CZ	2.49	0.41
10:AK:104:ARG:CB	10:AK:107:LEU:HG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:112:LEU:HD12	10:AK:133:LEU:HD23	2.02	0.41
1:AA:1349:A:P	11:AL:118:LYS:HD2	2.57	0.41
15:AP:22:ILE:O	15:AP:23:TYR:C	2.57	0.41
1:AA:1329:A:P	15:AP:28:ALA:HB3	2.61	0.41
1:AA:974:A:N9	16:AQ:31:ARG:NH2	2.69	0.41
16:AQ:42:ILE:HG13	16:AQ:43:CYS:H	1.85	0.41
17:AR:65:ARG:NH1	17:AR:65:ARG:CB	2.84	0.41
18:AS:42:ARG:O	18:AS:43:LYS:HB2	2.21	0.41
19:AT:13:ASP:HA	19:AT:19:VAL:HG12	2.02	0.41
50:B3:18:CYS:SG	50:B3:33:VAL:HG21	2.60	0.41
51:B4:47:PRO:O	51:B4:58:LEU:CD2	2.68	0.41
51:B4:50:GLY:O	51:B4:55:ARG:CA	2.62	0.41
51:B4:55:ARG:HB2	51:B4:55:ARG:CZ	2.49	0.41
24:BA:125:G:H2'	53:B6:47:ARG:CZ	2.49	0.41
24:BA:1000:A:H2'	24:BA:1001:A:O4'	2.21	0.41
24:BA:1019:U:O2'	24:BA:1020:A:H5'	2.20	0.41
24:BA:1128:A:C2	24:BA:1129:A:C6	3.09	0.41
24:BA:1236:G:C2'	24:BA:1237:A:H8	2.33	0.41
24:BA:1240:U:C2'	24:BA:1240:U:O2	2.61	0.41
24:BA:1411:C:H2'	24:BA:1412:A:H8	1.86	0.41
24:BA:1422:G:C4	24:BA:1423:G:C8	3.09	0.41
24:BA:1535:U:C2'	24:BA:1536:A:H5'	2.51	0.41
24:BA:1434:A:C6	24:BA:1560:G:C2	3.09	0.41
24:BA:1571:A:OP2	24:BA:1571:A:O4'	2.39	0.41
24:BA:1771:C:H2'	24:BA:1772:G:O4'	2.20	0.41
24:BA:1795:C:C2'	24:BA:1796:U:H5'	2.49	0.41
24:BA:1889:A:O4'	24:BA:2087:G:C4'	2.69	0.41
24:BA:1949:G:N7	24:BA:1950:G:N7	2.69	0.41
24:BA:1972:A:C2	24:BA:1973:G:N7	2.88	0.41
24:BA:2021:C:OP2	51:B4:11:THR:CB	2.55	0.41
24:BA:2057:A:H1'	51:B4:4:HIS:O	2.21	0.41
24:BA:2211:G:C2'	24:BA:2211:G:N3	2.84	0.41
24:BA:2260:C:H2'	24:BA:2261:C:C6	2.55	0.41
24:BA:2307:G:H2'	24:BA:2308:G:C1'	2.50	0.41
24:BA:241:A:O4'	24:BA:241:A:P	2.78	0.41
24:BA:250:G:H5'	54:B7:8:LYS:CD	2.51	0.41
24:BA:2558:C:H2'	24:BA:2558:C:O2	2.19	0.41
24:BA:2567:G:C4	24:BA:2568:C:C5	3.07	0.41
24:BA:2605:U:C2'	24:BA:2606:C:H5'	2.49	0.41
24:BA:10:G:N3	24:BA:2629:A:C2	2.89	0.41
24:BA:2695:C:C2'	24:BA:2696:U:C6	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:271(C):U:O2'	24:BA:271:G:C1'	2.69	0.41
24:BA:2739:U:O2'	24:BA:2740:A:H5'	2.20	0.41
24:BA:2748:A:N3	31:BH:67:LEU:CG	2.83	0.41
24:BA:2749:A:O3'	31:BH:62:LYS:HE3	2.19	0.41
24:BA:2880:C:O2	24:BA:2881:C:C6	2.74	0.41
24:BA:2893:G:H4'	24:BA:2894:G:C4'	2.50	0.41
24:BA:307:G:H2'	24:BA:309:G:OP2	2.20	0.41
24:BA:354:G:H2'	24:BA:355:G:O4'	2.21	0.41
24:BA:38:A:O2'	24:BA:39:C:C5'	2.68	0.41
24:BA:419:C:C4	24:BA:420:C:C5	3.09	0.41
24:BA:433:C:H3'	24:BA:434:U:H6	1.86	0.41
24:BA:545:G:O3'	24:BA:546:C:C5	2.74	0.41
24:BA:548:A:C6	24:BA:549:G:N3	2.88	0.41
24:BA:623:G:H2'	24:BA:624:C:C4'	2.50	0.41
24:BA:750:A:C2'	24:BA:751:A:H5''	2.49	0.41
24:BA:776:G:H1'	24:BA:793:A:C2	2.51	0.41
24:BA:819:A:H4'	24:BA:838:C:H5'	2.03	0.41
24:BA:864:G:H2'	24:BA:865:C:H6	1.78	0.41
24:BA:895:U:O2'	24:BA:896:A:C4	2.64	0.41
24:BA:942:G:H4'	24:BA:1189:A:H2	1.86	0.41
24:BA:943:U:H6	24:BA:944:G:C8	2.38	0.41
25:BB:102:G:H2'	25:BB:103:U:C6	2.55	0.41
25:BB:103:U:H5''	25:BB:103:U:C6	2.56	0.41
25:BB:112:G:C5'	25:BB:113:C:OP2	2.68	0.41
25:BB:59:A:C5	25:BB:60:C:C6	3.09	0.41
25:BB:83:G:H21	25:BB:84:C:H1'	1.84	0.41
25:BB:89:G:H2'	25:BB:89(A):A:N9	2.32	0.41
25:BB:9:G:N2	25:BB:10:C:C2	2.88	0.41
27:BD:198:ASN:HD21	27:BD:201:HIS:HB3	1.85	0.41
24:BA:691:C:H1'	27:BD:45:ASN:HD21	1.85	0.41
28:BE:118:LYS:HA	28:BE:118:LYS:NZ	2.34	0.41
28:BE:12:THR:HG22	28:BE:21:VAL:CG1	2.47	0.41
29:BF:153:SER:OG	29:BF:190:GLU:CB	2.65	0.41
29:BF:157:VAL:C	29:BF:195:ASP:OD2	2.59	0.41
29:BF:43:LYS:HE3	29:BF:99:TYR:H	1.84	0.41
30:BG:121:ASN:HB2	30:BG:133:LEU:CD2	2.50	0.41
30:BG:47:LYS:CE	30:BG:49:ASP:OD2	2.69	0.41
30:BG:75:LYS:HD3	30:BG:84:LYS:CB	2.50	0.41
31:BH:149:ARG:CA	31:BH:162:ILE:HG21	2.42	0.41
31:BH:58:GLU:HG2	31:BH:59:ARG:N	2.36	0.41
31:BH:6:ARG:O	31:BH:6:ARG:CG	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:29:PRO:CD	31:BH:79:VAL:HA	2.34	0.41
33:BL:14:ALA:CB	33:BL:45:THR:O	2.61	0.41
34:BM:103:VAL:HG22	34:BM:104:LYS:HE2	2.01	0.41
35:BN:6:THR:CG2	35:BN:8:LEU:HG	2.49	0.41
36:BO:109:GLY:O	36:BO:110:TYR:HB2	2.20	0.41
24:BA:942:G:H5''	36:BO:32:THR:HG22	2.02	0.41
37:BP:121:ALA:O	37:BP:124:LYS:HB3	2.20	0.41
37:BP:75:THR:CG2	37:BP:77:LYS:HD2	2.50	0.41
24:BA:2882:A:OP1	38:BQ:96:ARG:CD	2.69	0.41
39:BR:23:ARG:HD2	39:BR:23:ARG:HA	1.33	0.41
39:BR:39:ILE:HG12	39:BR:49:VAL:O	2.21	0.41
39:BR:64:GLU:OE2	39:BR:67:ARG:HG3	2.20	0.41
39:BR:25:ARG:CA	39:BR:87:PHE:O	2.48	0.41
41:BT:102:GLU:HA	41:BT:103:PRO:HD2	1.74	0.41
41:BT:15:LYS:O	41:BT:16:LYS:C	2.59	0.41
24:BA:534:U:O3'	41:BT:49:HIS:CD2	2.74	0.41
41:BT:4:ALA:O	41:BT:6:THR:N	2.49	0.41
41:BT:67:ALA:CA	41:BT:71:GLN:NE2	2.84	0.41
34:BM:42:TRP:HZ3	41:BT:71:GLN:NE2	2.18	0.41
42:BU:4:ILE:HG23	42:BU:13:ARG:HG2	2.02	0.41
43:BV:10:VAL:HB	43:BV:12:ILE:HD13	1.98	0.41
43:BV:33:ARG:NH1	43:BV:37:ARG:N	2.68	0.41
43:BV:25:ARG:CD	43:BV:74:ALA:N	2.77	0.41
44:BW:89:ILE:O	44:BW:90:GLU:C	2.58	0.41
45:BX:19:LYS:O	45:BX:21:LYS:N	2.44	0.41
45:BX:81:LYS:HE2	45:BX:96:ILE:HG21	2.03	0.41
46:BY:107:THR:OG1	46:BY:142:SER:CA	2.69	0.41
46:BY:98:MET:O	46:BY:125:LEU:O	2.39	0.41
46:BY:102:LEU:HD13	46:BY:137:ILE:O	2.20	0.41
46:BY:15:PRO:HG3	46:BY:38:TYR:HH	1.84	0.41
46:BY:18:LEU:HD22	46:BY:23:LYS:CB	2.37	0.41
46:BY:4:ARG:HH11	46:BY:37:VAL:C	2.24	0.41
47:BZ:33:ALA:HA	47:BZ:61:ALA:C	2.33	0.41
3:AD:56:C:C5	3:AD:57:G:C2	3.08	0.41
24:BA:2111:C:OP2	24:BA:2111:C:C6	2.55	0.41
24:BA:2148:G:C2	24:BA:2149:G:N7	2.89	0.41
24:BA:2127:G:C8	24:BA:2162:G:N2	2.89	0.41
26:BC:78:ALA:HA	26:BC:119:VAL:CG1	2.50	0.41
26:BC:23:ASP:C	26:BC:25:ALA:N	2.69	0.41
26:BC:54:SER:C	26:BC:56:GLN:N	2.74	0.41
24:BA:2194:G:C6	24:BA:2195:C:N4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2671:A:H2'	24:BA:2672:G:C8	2.55	0.41
1:AA:1452:C:C4'	1:AA:1453:G:C2	3.03	0.41
24:BA:439:G:H2'	24:BA:440:G:C8	2.56	0.41
1:AA:1069:C:N4	1:AA:1094:G:O6	2.54	0.41
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.51	0.41
1:AA:1128:C:H4'	1:AA:1148:U:C5	2.56	0.41
1:AA:1178:G:C4	1:AA:1180:A:OP2	2.74	0.41
1:AA:1159:U:H5	1:AA:1182:G:N3	2.16	0.41
1:AA:1224:G:O6	1:AA:1322:C:C1'	2.69	0.41
1:AA:1261:A:N3	1:AA:1261:A:H2'	2.35	0.41
1:AA:127:G:N2	1:AA:235:C:C2	2.88	0.41
1:AA:1357:A:O5'	1:AA:1357:A:C8	2.73	0.41
1:AA:1419:G:C6	1:AA:1482:G:C4	3.09	0.41
1:AA:1431:C:H2'	1:AA:1432:G:C4'	2.51	0.41
1:AA:1488:G:N3	1:AA:1489:G:C8	2.89	0.41
1:AA:1497:G:C5	1:AA:1498:U:H5	2.38	0.41
1:AA:16:A:C2'	1:AA:16:A:N3	2.82	0.41
1:AA:262:A:N3	1:AA:262:A:H2'	2.36	0.41
1:AA:305:G:HO2'	1:AA:306:G:P	2.36	0.41
1:AA:404:U:H6	1:AA:404:U:O5'	2.04	0.41
1:AA:425:G:O2'	1:AA:426:G:H5'	2.20	0.41
1:AA:449:C:H2'	1:AA:450:G:C4'	2.51	0.41
1:AA:465:A:C6	1:AA:467:G:C4	3.09	0.41
1:AA:476:G:C2	1:AA:477:G:N9	2.89	0.41
1:AA:605:U:C2	1:AA:606:G:C8	3.09	0.41
1:AA:61:G:C8	1:AA:62:U:C5	3.08	0.41
1:AA:643:C:N3	1:AA:644:G:C8	2.89	0.41
1:AA:658:G:C2	1:AA:659:U:N1	2.89	0.41
1:AA:711:G:H2'	1:AA:712:A:O5'	2.21	0.41
1:AA:790:A:N7	1:AA:791:G:N7	2.69	0.41
1:AA:875:C:C2'	1:AA:876:G:O5'	2.69	0.41
1:AA:904:C:O2'	1:AA:905:U:H5'	2.21	0.41
2:AC:10:G:N2	2:AC:11:A:N9	2.69	0.41
2:AC:28:C:O3'	15:AP:118:ALA:O	2.38	0.41
2:AC:19:G:H1	2:AC:56:C:H42	1.64	0.41
2:AC:76:A:C3'	2:AC:76:A:OP1	2.63	0.41
4:AE:140:HIS:HA	4:AE:143:GLU:OE1	2.20	0.41
4:AE:70:PHE:HE2	4:AE:163:PHE:HB2	1.86	0.41
4:AE:47:THR:HG23	4:AE:202:PRO:CD	2.49	0.41
4:AE:69:LEU:HD23	4:AE:91:PRO:HB3	1.98	0.41
4:AE:80:ILE:HG22	4:AE:81:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:12:LEU:O	5:AF:14:ILE:N	2.50	0.41
5:AF:10:PHE:O	5:AF:178:LEU:HD11	2.20	0.41
5:AF:34:LEU:O	5:AF:38:ARG:CD	2.67	0.41
5:AF:87:LEU:N	5:AF:87:LEU:HD23	2.35	0.41
1:AA:405:U:O4	6:AG:2:GLY:N	2.54	0.41
7:AH:9:LYS:HD2	7:AH:108:ALA:HA	2.02	0.41
7:AH:78:HIS:HE2	7:AH:142:LEU:HB3	1.84	0.41
7:AH:143:ARG:O	7:AH:144:THR:O	2.38	0.41
8:AI:80:ARG:H	8:AI:80:ARG:HG3	1.53	0.41
1:AA:1240:U:H2'	9:AJ:32:ARG:HE	1.85	0.41
9:AJ:5:ARG:C	9:AJ:5:ARG:HH11	2.21	0.41
10:AK:100:ILE:HG23	10:AK:121:ASP:HA	2.02	0.41
10:AK:38:ILE:C	10:AK:41:ARG:HB2	2.41	0.41
10:AK:47:GLY:O	10:AK:61:VAL:CA	2.67	0.41
1:AA:706:A:O4'	13:AN:29:ILE:HD13	2.20	0.41
13:AN:62:GLN:CD	13:AN:63:LEU:H	2.23	0.41
14:AO:84:LEU:CA	14:AO:104:VAL:HG11	2.51	0.41
1:AA:538:G:O3'	14:AO:114:LYS:CD	2.68	0.41
12:AM:65:LEU:HD22	16:AQ:36:PHE:CE2	2.56	0.41
17:AR:36:ILE:O	17:AR:39:LEU:HD22	2.20	0.41
17:AR:87:ILE:CG2	17:AR:88:ARG:N	2.83	0.41
18:AS:12:LYS:HA	18:AS:12:LYS:HD2	1.87	0.41
18:AS:3:LYS:HD2	18:AS:5:ARG:HH11	1.85	0.41
19:AT:66:SER:OG	19:AT:67:LYS:N	2.52	0.41
20:AU:73:ALA:C	20:AU:79:LEU:HD11	2.40	0.41
13:AN:84:VAL:CG1	20:AU:88:LYS:HD3	2.42	0.41
48:B1:1:MET:HE3	48:B1:4:GLN:OE1	2.20	0.41
48:B1:23:LYS:O	48:B1:26:GLU:N	2.54	0.41
48:B1:50:ARG:CB	48:B1:54:ARG:NH2	2.84	0.41
49:B2:44:ARG:O	49:B2:45:GLY:C	2.57	0.41
49:B2:43:ILE:O	49:B2:46:ASN:HB3	2.20	0.41
51:B4:51:TYR:CE1	51:B4:55:ARG:HD3	2.49	0.41
52:B5:22:ALA:HB3	52:B5:39:TYR:CE2	2.53	0.41
24:BA:1023:U:OP2	24:BA:1025:G:C2	2.73	0.41
24:BA:1099:G:C2'	24:BA:1100:C:H5'	2.51	0.41
24:BA:1102:C:H1'	24:BA:1103:A:C8	2.56	0.41
24:BA:1140:C:O2	24:BA:1143:A:C2	2.74	0.41
24:BA:1166:C:C2	24:BA:1184:G:C2	3.08	0.41
24:BA:1213:A:O2'	24:BA:1238:G:N3	2.52	0.41
24:BA:1263:U:N3	24:BA:1264:G:C2	2.89	0.41
24:BA:1313:U:H2'	24:BA:1314:C:H6	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1341:U:OP2	24:BA:1397:U:O4	2.37	0.41
24:BA:1357:U:C4	24:BA:1358:G:C2	3.09	0.41
24:BA:1359:A:C5'	24:BA:1359:A:C8	3.03	0.41
24:BA:1359:A:H2'	24:BA:1360:A:H5'	2.02	0.41
24:BA:1446:C:H2'	24:BA:1447:G:H8	1.85	0.41
24:BA:144:C:O2'	24:BA:145:G:H5'	2.21	0.41
24:BA:1476:C:C6	24:BA:1477:A:C5	3.08	0.41
24:BA:1551:C:H2'	24:BA:1551:C:O2	2.21	0.41
24:BA:1594:G:C2	24:BA:1595:G:C8	3.09	0.41
24:BA:1342:A:C5	24:BA:1601:G:O6	2.73	0.41
24:BA:749:C:C4	24:BA:1618:A:C6	3.09	0.41
24:BA:1628:G:C4	24:BA:1629:U:C5	3.09	0.41
24:BA:1675:C:H2'	24:BA:1676:A:C4'	2.50	0.41
24:BA:1707:G:H2'	24:BA:1708:C:H6	1.84	0.41
24:BA:1774:C:O2'	24:BA:1979:C:O2'	2.13	0.41
24:BA:48:G:N3	24:BA:178:G:C2	2.89	0.41
24:BA:1792:G:OP1	27:BD:206:LEU:HD22	2.18	0.41
24:BA:1809:A:H61	50:B3:3:GLU:HG2	1.83	0.41
24:BA:1884:A:OP2	24:BA:1884:A:N9	2.53	0.41
24:BA:1954:G:O2'	24:BA:1956:U:O4	2.38	0.41
24:BA:1982:C:O5'	24:BA:1982:C:H6	2.04	0.41
24:BA:2225:A:H5''	24:BA:2226:C:O4'	2.17	0.41
24:BA:220:G:C4'	24:BA:234:C:H4'	2.29	0.41
24:BA:2408:U:C6	24:BA:2408:U:C4'	3.03	0.41
24:BA:2431:U:O2'	24:BA:2432:A:H5''	2.17	0.41
24:BA:2460:U:H3'	24:BA:2461:C:C5	2.55	0.41
24:BA:2478:A:C2'	24:BA:2479:G:O5'	2.69	0.41
24:BA:2507:C:C2	24:BA:2583:G:N3	2.89	0.41
24:BA:2513:G:C6	24:BA:2514:U:N3	2.89	0.41
24:BA:2528:U:O2'	24:BA:2529:G:H8	2.04	0.41
24:BA:2547:U:C5	24:BA:2566:A:C4	3.09	0.41
24:BA:253:C:O2'	24:BA:254:G:H5'	2.19	0.41
24:BA:2595:G:N2	24:BA:2599:G:O6	2.54	0.41
24:BA:2615:U:O4'	51:B4:7:PRO:CB	2.69	0.41
24:BA:2625:G:H2'	24:BA:2626:C:C6	2.56	0.41
24:BA:2661:G:H8	24:BA:2661:G:O5'	2.04	0.41
24:BA:2820:A:H3'	24:BA:2820:A:C8	2.56	0.41
24:BA:2848:G:O2'	24:BA:2849:U:OP2	2.38	0.41
24:BA:296:C:C4	24:BA:297:C:C5	3.08	0.41
24:BA:292:C:N4	24:BA:346:A:N6	2.68	0.41
24:BA:511:U:C5	24:BA:512:G:C2	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:527:C:OP1	24:BA:527:C:O3'	2.37	0.41
24:BA:557:U:C2'	24:BA:558:G:O4'	2.65	0.41
24:BA:588:U:H2'	24:BA:589:C:O5'	2.20	0.41
24:BA:728:G:H4'	24:BA:729:G:C8	2.56	0.41
24:BA:744:G:C6	24:BA:745:G:C6	3.08	0.41
24:BA:826:U:H5''	24:BA:2428:G:O3'	2.21	0.41
24:BA:836:G:OP2	24:BA:836:G:H8	2.04	0.41
24:BA:862:G:C6	24:BA:863:A:C4	3.08	0.41
24:BA:895:U:C6	24:BA:895:U:O5'	2.64	0.41
24:BA:928:G:N7	24:BA:929:G:C4	2.86	0.41
24:BA:954:G:H1'	24:BA:2274:A:N1	2.36	0.41
24:BA:974:G:C4'	24:BA:1187:G:C1'	2.97	0.41
24:BA:972:G:P	24:BA:974:G:OP2	2.79	0.41
27:BD:105:ILE:O	27:BD:106:ILE:O	2.39	0.41
27:BD:224:ALA:O	27:BD:225:ALA:C	2.58	0.41
27:BD:270:ILE:O	27:BD:271:ILE:C	2.57	0.41
27:BD:5:LYS:CE	27:BD:31:LYS:HZ1	2.34	0.41
27:BD:82:ILE:HD13	27:BD:92:ILE:C	2.40	0.41
28:BE:156:MET:O	28:BE:160:TYR:CE1	2.74	0.41
28:BE:176:ILE:HA	28:BE:177:PRO:HD2	1.86	0.41
28:BE:93:VAL:HG11	28:BE:177:PRO:O	2.20	0.41
28:BE:25:VAL:O	28:BE:181:LEU:HA	2.21	0.41
28:BE:3:GLY:O	28:BE:197:ILE:HG23	2.21	0.41
28:BE:47:VAL:CA	28:BE:79:ARG:HB2	2.42	0.41
29:BF:103:LYS:HB3	29:BF:107:LYS:NZ	2.35	0.41
30:BG:35:GLU:HA	30:BG:100:TRP:HH2	1.84	0.41
15:AP:3:ARG:NE	30:BG:140:ILE:HB	2.35	0.41
30:BG:140:ILE:O	30:BG:142:PRO:CD	2.65	0.41
30:BG:50:ALA:HB1	30:BG:51:ARG:CZ	2.51	0.41
31:BH:11:VAL:HG21	31:BH:17:VAL:HG21	2.03	0.41
31:BH:127:GLU:HG3	31:BH:130:ARG:CG	2.49	0.41
32:BK:51:ILE:O	32:BK:52:ARG:C	2.59	0.41
33:BL:106:GLU:H	33:BL:106:GLU:HG3	1.72	0.41
33:BL:52:ILE:HB	33:BL:72:PRO:HB3	2.03	0.41
34:BM:56:ASN:CA	34:BM:124:ALA:O	2.68	0.41
34:BM:37:LYS:CE	34:BM:43:THR:HG23	2.50	0.41
34:BM:23:LEU:CG	34:BM:62:VAL:O	2.64	0.41
34:BM:70:LYS:CD	34:BM:86:PRO:HG3	2.50	0.41
35:BN:97:ARG:HE	35:BN:98:VAL:N	1.93	0.41
36:BO:108:LYS:NZ	36:BO:109:GLY:HA3	2.35	0.41
36:BO:23:PRO:HG2	36:BO:29:LYS:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:44:ALA:O	37:BP:48:GLU:OE2	2.39	0.41
37:BP:63:LYS:HD3	37:BP:64:ILE:N	2.34	0.41
37:BP:78:PRO:HB2	37:BP:79:LEU:H	1.61	0.41
24:BA:2009:G:O2'	38:BQ:106:GLY:O	2.22	0.41
38:BQ:99:LYS:HB2	51:B4:44:THR:CG2	2.49	0.41
39:BR:17:ARG:O	39:BR:20:ARG:HB2	2.20	0.41
39:BR:73:LEU:C	39:BR:76:LYS:HB3	2.41	0.41
40:BS:53:ARG:NH2	40:BS:101:PHE:N	2.68	0.41
40:BS:54:ARG:O	40:BS:55:ASN:OD1	2.37	0.41
24:BA:532:A:OP1	41:BT:28:ARG:NH2	2.53	0.41
41:BT:34:LYS:HE2	41:BT:37:GLU:OE2	2.21	0.41
41:BT:68:ALA:HB1	41:BT:72:HIS:CE1	2.56	0.41
42:BU:24:LYS:C	42:BU:28:GLU:OE2	2.58	0.41
42:BU:36:PRO:CB	42:BU:61:VAL:CG2	2.99	0.41
44:BW:29:TRP:O	44:BW:30:VAL:HG13	2.21	0.41
44:BW:88:LYS:HD2	44:BW:88:LYS:H	1.85	0.41
45:BX:35:TYR:N	45:BX:35:TYR:CD1	2.86	0.41
46:BY:128:VAL:HB	46:BY:162:GLU:CG	2.50	0.41
46:BY:18:LEU:HD13	46:BY:23:LYS:CG	2.47	0.41
46:BY:99:TYR:HA	46:BY:125:LEU:O	2.20	0.41
47:BZ:46:LYS:HA	47:BZ:47:PRO:HD3	1.83	0.41
47:BZ:50:ASN:HB2	47:BZ:81:VAL:CB	2.49	0.41
3:AD:50:G:N1	3:AD:65:U:C4	2.89	0.41
3:AD:60:U:OP2	3:AD:60:U:C5	2.72	0.41
24:BA:2113:U:C5	24:BA:2114:A:N6	2.89	0.41
24:BA:2124:G:N3	26:BC:217:THR:HG23	2.36	0.41
26:BC:193:ILE:O	26:BC:197:GLU:HG3	2.20	0.41
26:BC:217:THR:HB	26:BC:218:MET:H	1.53	0.41
26:BC:212:VAL:HB	26:BC:223:ARG:HG3	2.02	0.41
26:BC:63:SER:CA	26:BC:160:ARG:HH12	2.33	0.41
1:AA:748:C:O2'	1:AA:749:C:H6	2.02	0.41
27:BD:273:ARG:NH2	27:BD:273:ARG:O	2.54	0.41
36:BO:149:GLU:OE1	36:BO:150:ALA:N	2.54	0.41
1:AA:1072:G:N3	1:AA:1104:G:N2	2.69	0.41
1:AA:1091:U:H3'	1:AA:1091:U:C6	2.56	0.41
1:AA:1157:A:H8	1:AA:1158:C:H42	1.68	0.41
1:AA:1184:G:C2	1:AA:1185:G:C6	3.09	0.41
1:AA:1210:C:O3'	1:AA:1214:C:N4	2.53	0.41
1:AA:1268:A:C2	1:AA:1327:C:H1'	2.56	0.41
1:AA:1286:A:H4'	23:AX:25:LYS:HG2	2.02	0.41
1:AA:1321:C:O4'	15:AP:87:TYR:CE1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1342:C:O2'	11:AL:124:GLN:CA	2.68	0.41
1:AA:1388:C:N3	1:AA:1389:C:C5	2.88	0.41
1:AA:1415:G:C2	1:AA:1416:G:N9	2.89	0.41
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.21	0.41
1:AA:171:A:C2'	1:AA:172:A:H5'	2.51	0.41
1:AA:236:G:C2'	1:AA:236:G:N3	2.83	0.41
1:AA:438:G:H5'	6:AG:123:HIS:ND1	2.32	0.41
1:AA:51:A:C6	1:AA:353:A:N1	2.88	0.41
1:AA:609:A:C2	1:AA:610:G:C1'	3.04	0.41
1:AA:60:A:C4'	1:AA:61:G:O5'	2.68	0.41
1:AA:631:G:O5'	1:AA:631:G:C8	2.74	0.41
1:AA:654:G:C5	1:AA:655:A:C5	3.09	0.41
1:AA:665:A:C2	1:AA:732:C:C4	3.09	0.41
1:AA:671:G:H2'	1:AA:672:U:H1'	2.03	0.41
1:AA:690:G:O6	1:AA:691:G:C2	2.74	0.41
1:AA:695:A:C2	1:AA:696:A:H1'	2.56	0.41
1:AA:657:G:C2	1:AA:750:G:C4	3.09	0.41
1:AA:827:U:N3	1:AA:870:U:C5	2.88	0.41
1:AA:857:C:O2'	1:AA:858:G:H5'	2.19	0.41
1:AA:890:G:O2'	1:AA:891:U:O5'	2.39	0.41
1:AA:946:A:C2	1:AA:947:G:C5	3.09	0.41
1:AA:947:G:H21	1:AA:948:C:H1'	1.85	0.41
1:AA:976:G:C3'	1:AA:976:G:C8	3.04	0.41
2:AC:31:G:C2	2:AC:40:C:C4	3.08	0.41
2:AC:44:A:H2'	2:AC:45:G:O4'	2.21	0.41
2:AC:75:C:C2'	2:AC:76:A:O3'	2.68	0.41
4:AE:115:LEU:CD1	4:AE:142:LEU:HG	2.50	0.41
4:AE:133:LYS:HE2	4:AE:133:LYS:CA	2.51	0.41
4:AE:167:PRO:CG	4:AE:168:THR:N	2.82	0.41
4:AE:162:ILE:CD1	4:AE:183:PRO:O	2.57	0.41
4:AE:207:ALA:O	4:AE:210:SER:N	2.54	0.41
4:AE:219:VAL:O	4:AE:223:ILE:CB	2.69	0.41
4:AE:54:THR:O	4:AE:58:ILE:CG1	2.53	0.41
4:AE:80:ILE:HD13	4:AE:212:GLN:CB	2.51	0.41
5:AF:110:ASN:HD21	5:AF:140:ARG:C	2.21	0.41
5:AF:19:GLU:HA	5:AF:54:ARG:HH21	1.85	0.41
5:AF:59:ARG:HH11	5:AF:59:ARG:CG	2.34	0.41
5:AF:8:ILE:O	5:AF:9:GLY:C	2.57	0.41
6:AG:200:GLU:O	6:AG:204:ILE:CD1	2.68	0.41
7:AH:82:VAL:HB	7:AH:138:ALA:HB2	2.03	0.41
5:AF:135:LYS:NZ	7:AH:52:PRO:HG2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:1:MET:SD	8:AI:68:PRO:CD	3.09	0.41
9:AJ:65:ALA:HA	9:AJ:128:ALA:CA	2.50	0.41
9:AJ:96:GLN:O	9:AJ:100:ALA:CB	2.68	0.41
10:AK:63:LEU:CG	10:AK:65:TYR:OH	2.68	0.41
1:AA:1342:C:H4'	11:AL:125:TYR:HD1	1.85	0.41
12:AM:49:VAL:HG13	16:AQ:41:ARG:CG	2.51	0.41
1:AA:1202:G:N7	12:AM:53:PRO:HB2	2.35	0.41
13:AN:41:THR:CB	13:AN:71:LYS:HE3	2.22	0.41
15:AP:102:ARG:HG2	15:AP:105:THR:O	2.21	0.41
16:AQ:24:CYS:CA	16:AQ:39:LEU:HA	2.50	0.41
1:AA:994:A:C4	16:AQ:5:ALA:HA	2.56	0.41
1:AA:582:U:H1'	19:AT:105:ALA:CB	2.50	0.41
19:AT:75:ARG:NH1	19:AT:76:LEU:O	2.54	0.41
19:AT:7:THR:HG22	19:AT:8:GLY:N	2.32	0.41
21:AV:36:ARG:HB2	21:AV:71:LEU:HB3	2.03	0.41
21:AV:64:GLU:O	21:AV:66:MET:N	2.54	0.41
22:AW:71:THR:HB	22:AW:72:LEU:H	1.44	0.41
44:BW:7:VAL:C	48:B1:31:ARG:HH12	2.24	0.41
49:B2:39:ASP:HB3	49:B2:44:ARG:HH11	1.86	0.41
50:B3:39:CYS:O	50:B3:40:HIS:ND1	2.54	0.41
50:B3:5:ILE:O	50:B3:6:HIS:ND1	2.50	0.41
52:B5:16:CYS:HB3	52:B5:49:HIS:CD2	2.52	0.41
54:B7:16:ILE:HA	54:B7:22:VAL:HG22	2.03	0.41
55:B8:10:ILE:H	55:B8:14:CYS:CB	2.34	0.41
24:BA:1006:C:O2	24:BA:1006:C:H2'	2.20	0.41
24:BA:1009:A:C2	24:BA:1010:A:N3	2.88	0.41
24:BA:1012:U:O2	24:BA:1142(A):A:C4'	2.59	0.41
24:BA:1027:A:H2'	24:BA:1028:A:H8	1.85	0.41
24:BA:1068:G:O2'	24:BA:1069:A:C4	2.72	0.41
24:BA:1069:A:C1'	24:BA:1071:G:OP2	2.69	0.41
24:BA:1122:G:N2	24:BA:1123:C:N1	2.68	0.41
24:BA:113:G:OP1	44:BW:3:THR:OG1	2.33	0.41
24:BA:1166:C:H1'	24:BA:1184:G:H22	1.85	0.41
24:BA:10:G:O2'	24:BA:11:G:O4'	2.36	0.41
24:BA:331:A:N3	24:BA:1209:G:C6	2.89	0.41
24:BA:1210:A:O4'	24:BA:1212:G:N3	2.54	0.41
24:BA:1245:G:C2'	24:BA:1246:A:H5'	2.50	0.41
24:BA:1263:U:O3'	51:B4:10:LYS:NZ	2.49	0.41
24:BA:1317:A:C4	24:BA:1318:C:C5	3.08	0.41
24:BA:1322:A:N6	24:BA:1323:U:N3	2.69	0.41
24:BA:1425:G:C4	24:BA:1426:G:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1521:G:C3'	24:BA:1522:G:C5'	2.91	0.41
24:BA:1594:G:C2'	24:BA:1595:G:H5'	2.51	0.41
24:BA:1743:G:H5''	24:BA:1743:G:C8	2.55	0.41
24:BA:1854:A:O2'	24:BA:1855:G:H5'	2.20	0.41
24:BA:1944:U:H1'	24:BA:1955:U:H6	1.82	0.41
1:AA:1483:A:C2	24:BA:1960:A:H1'	2.50	0.41
24:BA:1965:C:H5''	24:BA:1966:A:C8	2.56	0.41
24:BA:2018:G:O6	24:BA:2019:A:N1	2.54	0.41
24:BA:2019:A:C3'	24:BA:2020:A:C5'	2.84	0.41
24:BA:2023:G:O2'	24:BA:2024:G:H5'	2.20	0.41
24:BA:2208:U:H2'	24:BA:2208:U:O2	2.18	0.41
24:BA:2231:C:C2	24:BA:2232:U:C6	3.09	0.41
24:BA:2234:G:H2'	24:BA:2235:G:O4'	2.20	0.41
24:BA:2331:G:C6	24:BA:2332:U:C2	3.09	0.41
24:BA:2359:C:N4	24:BA:2360:A:N1	2.67	0.41
24:BA:827:U:C2	24:BA:2430:A:N1	2.88	0.41
24:BA:243:U:C2	24:BA:244:A:C8	3.09	0.41
24:BA:2455:G:C4	24:BA:2456:C:C5	3.08	0.41
24:BA:2538:C:C2	24:BA:2539:C:H5	2.38	0.41
24:BA:2537:U:N3	24:BA:2538:C:N4	2.68	0.41
24:BA:255:A:H2'	24:BA:256:A:H8	1.84	0.41
24:BA:2570:G:N2	24:BA:2571:C:N1	2.68	0.41
24:BA:2628:C:O2	24:BA:2782:G:P	2.78	0.41
24:BA:2649:U:O2'	24:BA:2650:U:H5'	2.20	0.41
24:BA:2656:U:O2'	24:BA:2657:A:H5'	2.21	0.41
24:BA:270(V):G:O6	24:BA:270(W):G:O6	2.38	0.41
24:BA:2731:G:H22	24:BA:2732:G:N2	2.19	0.41
24:BA:2785:C:N3	24:BA:2786:U:C4	2.89	0.41
24:BA:279:C:C2'	24:BA:280:C:C6	3.00	0.41
24:BA:297:C:C4	24:BA:298:G:C2	3.09	0.41
24:BA:493:G:C4	24:BA:494:G:C8	3.09	0.41
24:BA:51:G:H1'	24:BA:118:A:H61	1.84	0.41
24:BA:549:G:H2'	24:BA:550:G:O4'	2.20	0.41
24:BA:543:C:C4	24:BA:551:G:C2	3.09	0.41
24:BA:586:A:H2'	24:BA:586:A:N3	2.35	0.41
24:BA:587:C:C2	24:BA:671:C:O4'	2.74	0.41
24:BA:596:G:N1	24:BA:597:U:C2	2.89	0.41
24:BA:613:U:C6	24:BA:614:U:C2	3.08	0.41
24:BA:669:G:C8	24:BA:801:G:C4	3.09	0.41
24:BA:674:G:H4'	29:BF:74:ARG:CD	2.49	0.41
24:BA:728:G:C5	24:BA:762:U:H2'	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:852:G:C2	24:BA:853:G:C8	3.09	0.41
24:BA:853:G:O2'	24:BA:854:G:H5'	2.21	0.41
24:BA:85:G:C2	24:BA:98:G:C2	3.08	0.41
24:BA:919:G:H21	24:BA:920:G:C1'	2.20	0.41
24:BA:930:U:H3'	24:BA:930:U:C6	2.53	0.41
24:BA:848:G:C4	24:BA:931:G:O6	2.74	0.41
24:BA:980:A:O2'	24:BA:981:A:H5'	2.21	0.41
25:BB:29:A:H1'	25:BB:56:G:H21	1.85	0.41
25:BB:68:C:O5'	25:BB:68:C:H6	2.04	0.41
27:BD:134:ARG:HG3	27:BD:134:ARG:H	1.74	0.41
27:BD:90:ALA:HB2	27:BD:198:ASN:HB3	2.03	0.41
27:BD:198:ASN:OD1	27:BD:199:ALA:N	2.54	0.41
24:BA:1791:A:C4'	27:BD:209:ALA:HA	2.50	0.41
24:BA:781:A:C1'	27:BD:222:ARG:NH2	2.81	0.41
27:BD:63:ARG:HG2	27:BD:64:ILE:N	2.35	0.41
24:BA:1567:A:N6	27:BD:85:ASP:O	2.50	0.41
24:BA:2512:C:C5'	28:BE:120:TRP:HH2	2.13	0.41
28:BE:15:PHE:CE2	28:BE:16:ARG:HG3	2.56	0.41
28:BE:45:THR:HG1	28:BE:46:ALA:H	1.68	0.41
28:BE:50:GLY:C	28:BE:76:ARG:CZ	2.89	0.41
28:BE:57:LYS:O	28:BE:58:ARG:CZ	2.69	0.41
29:BF:130:ALA:CB	29:BF:142:TRP:HE3	2.18	0.41
30:BG:101:ILE:CG2	30:BG:102:PHE:N	2.83	0.41
30:BG:59:GLU:C	30:BG:61:ALA:N	2.71	0.41
30:BG:60:LEU:HB2	30:BG:66:GLN:O	2.21	0.41
31:BH:127:GLU:CG	31:BH:130:ARG:HB2	2.50	0.41
31:BH:7:LEU:O	31:BH:51:ARG:NE	2.53	0.41
31:BH:94:TYR:N	31:BH:95:ARG:NH2	2.50	0.41
33:BL:105:LEU:O	33:BL:109:LYS:HG2	2.21	0.41
34:BM:108:PRO:O	34:BM:113:GLY:CA	2.65	0.41
34:BM:73:THR:O	34:BM:83:LYS:HB2	2.21	0.41
35:BN:58:VAL:HG23	35:BN:86:ILE:HG22	2.01	0.41
35:BN:11:ALA:C	35:BN:97:ARG:CZ	2.89	0.41
36:BO:47:ASP:OD1	36:BO:48:PRO:HD3	2.21	0.41
37:BP:85:LYS:CE	47:BZ:10:THR:OG1	2.68	0.41
37:BP:8:LYS:NZ	37:BP:73:PRO:HB3	2.35	0.41
39:BR:14:VAL:O	39:BR:17:ARG:CB	2.61	0.41
39:BR:29:PHE:CD1	39:BR:34:HIS:CD2	3.09	0.41
39:BR:43:GLU:C	39:BR:45:GLY:N	2.74	0.41
35:BN:122:LEU:CG	40:BS:71:GLY:HA2	2.51	0.41
40:BS:82:LEU:C	40:BS:84:GLN:H	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:98:LEU:O	41:BT:99:ALA:C	2.58	0.41
42:BU:12:TYR:O	42:BU:13:ARG:CB	2.69	0.41
42:BU:1:MET:H2	42:BU:44:LYS:CB	2.32	0.41
42:BU:58:VAL:HG12	42:BU:59:ALA:H	1.84	0.41
41:BT:94:ASN:HD21	42:BU:6:LYS:HD2	1.84	0.41
43:BV:47:VAL:HG23	43:BV:48:ALA:H	1.86	0.41
44:BW:95:LEU:O	44:BW:96:ILE:HB	2.20	0.41
44:BW:9:LEU:H	44:BW:9:LEU:HD12	1.78	0.41
45:BX:12:THR:HG22	45:BX:13:VAL:CG1	2.51	0.41
24:BA:481:G:OP2	45:BX:44:ILE:HA	2.20	0.41
45:BX:95:LYS:CG	45:BX:96:ILE:H	2.34	0.41
46:BY:31:ARG:O	46:BY:33:LEU:HG	2.21	0.41
47:BZ:44:ARG:CG	47:BZ:44:ARG:O	2.65	0.41
47:BZ:46:LYS:HE3	47:BZ:76:GLY:HA3	2.01	0.41
24:BA:2146:C:N3	24:BA:2147:G:O4'	2.54	0.41
24:BA:2150:U:O2	24:BA:2151:G:N7	2.52	0.41
24:BA:2157:G:H4'	24:BA:2158:A:OP1	2.21	0.41
26:BC:103:ILE:CD1	26:BC:108:MET:SD	3.08	0.41
26:BC:176:GLY:O	26:BC:177:LYS:O	2.38	0.41
26:BC:10:LEU:CD1	26:BC:32:LEU:HD22	2.51	0.41
24:BA:1418:G:C1'	24:BA:1581:G:N2	2.76	0.41
1:AA:1004:A:C4'	1:AA:1005:A:OP1	2.68	0.41
31:BH:170:ARG:C	31:BH:171:LEU:HG	2.41	0.41
4:AE:124:SER:C	4:AE:126:GLU:N	2.73	0.41
1:AA:102:G:H1'	1:AA:152:A:C1'	2.51	0.41
1:AA:1159:U:C4'	1:AA:1160:G:OP1	2.69	0.41
1:AA:1273:G:H2'	1:AA:1274:G:H8	1.86	0.41
1:AA:1307:U:O2'	1:AA:1308:U:H5'	2.20	0.41
1:AA:1341:U:C6	1:AA:1341:U:C3'	3.04	0.41
1:AA:1347:G:H3'	11:AL:107:ARG:O	2.20	0.41
1:AA:1387:G:O2'	1:AA:1388:C:H5'	2.21	0.41
1:AA:1401:G:C8	1:AA:1402:C:C6	3.09	0.41
1:AA:1401:G:N7	1:AA:1402:C:C6	2.88	0.41
1:AA:1465:C:O2'	1:AA:1466:C:H5'	2.21	0.41
1:AA:222:U:H2'	1:AA:223:U:O5'	2.21	0.41
1:AA:232:G:C6	1:AA:233:C:C4	3.09	0.41
1:AA:282:A:C5	1:AA:283:C:C5	3.09	0.41
1:AA:391:G:N1	1:AA:392:G:C4	2.89	0.41
1:AA:410:G:N3	1:AA:432:A:C6	2.88	0.41
1:AA:448:A:O2'	1:AA:449:C:C5'	2.64	0.41
1:AA:465:A:H62	1:AA:467:G:N2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:479:C:H2'	1:AA:480:U:C2	2.56	0.41
1:AA:503:C:C2	1:AA:504:C:C6	3.09	0.41
1:AA:544:G:C5	1:AA:545:C:C5	3.09	0.41
1:AA:550:G:H2'	1:AA:551:U:H6	1.86	0.41
1:AA:657:G:C5	1:AA:658:G:N7	2.89	0.41
1:AA:674:G:OP1	8:AI:87:ARG:NH2	2.54	0.41
1:AA:735:C:C6	1:AA:735:C:O5'	2.73	0.41
1:AA:737:A:H2'	1:AA:738:C:H6	1.86	0.41
1:AA:579:G:N1	1:AA:763:G:N1	2.68	0.41
1:AA:789:U:C5	1:AA:790:A:H5''	2.53	0.41
1:AA:933:G:C6	1:AA:935:A:C4	3.09	0.41
1:AA:947:G:O2'	1:AA:948:C:H5'	2.20	0.41
1:AA:969:A:N6	1:AA:970:C:C4	2.89	0.41
3:AD:38:A:C5	3:AD:39:U:C5	3.08	0.41
3:AD:37:A:C4	3:AD:38:A:C8	3.09	0.41
3:AD:38:A:H2'	3:AD:39:U:C5'	2.50	0.41
4:AE:118:LEU:O	4:AE:119:GLU:C	2.59	0.41
4:AE:118:LEU:HD11	4:AE:142:LEU:HA	2.03	0.41
4:AE:216:SER:O	4:AE:217:ARG:C	2.60	0.41
4:AE:44:LEU:O	4:AE:45:GLN:C	2.60	0.41
5:AF:132:ARG:CB	5:AF:136:GLN:NE2	2.82	0.41
5:AF:26:LYS:O	5:AF:28:GLN:NE2	2.54	0.41
5:AF:39:ILE:CD1	5:AF:57:ILE:HG21	2.51	0.41
5:AF:86:VAL:O	5:AF:90:GLU:HG2	2.21	0.41
5:AF:64:VAL:O	5:AF:99:VAL:HG11	2.21	0.41
6:AG:20:TYR:C	6:AG:22:LYS:N	2.70	0.41
6:AG:15:GLU:OE2	6:AG:63:LYS:HA	2.20	0.41
7:AH:109:ILE:HG21	7:AH:135:THR:HG21	2.03	0.41
8:AI:8:ILE:HG23	8:AI:88:VAL:HG22	2.03	0.41
8:AI:8:ILE:CG2	8:AI:88:VAL:HG22	2.51	0.41
9:AJ:139:GLU:HA	9:AJ:142:GLU:CB	2.50	0.41
10:AK:31:PHE:CZ	10:AK:113:SER:HB2	2.54	0.41
10:AK:63:LEU:HB3	10:AK:65:TYR:OH	2.20	0.41
11:AL:49:PRO:HB3	11:AL:82:ALA:HB2	2.03	0.41
11:AL:7:THR:HG23	11:AL:9:ARG:HH11	1.86	0.41
13:AN:20:TYR:O	13:AN:30:VAL:HA	2.20	0.41
13:AN:84:VAL:HG21	20:AU:88:LYS:HZ2	1.85	0.41
15:AP:45:VAL:O	15:AP:47:ASP:N	2.53	0.41
15:AP:91:ARG:O	15:AP:96:LEU:HD23	2.21	0.41
15:AP:91:ARG:CD	15:AP:96:LEU:HG	2.49	0.41
17:AR:15:PHE:N	17:AR:15:PHE:HD1	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:26:GLU:OE1	17:AR:26:GLU:N	2.53	0.41
17:AR:50:HIS:O	17:AR:53:HIS:HB3	2.21	0.41
19:AT:68:ARG:H	19:AT:70:ARG:NH2	2.17	0.41
19:AT:46:ASP:HB2	19:AT:73:VAL:HG21	2.03	0.41
19:AT:54:GLY:HA2	19:AT:85:VAL:HG21	2.03	0.41
19:AT:91:ARG:HB3	19:AT:91:ARG:HE	1.54	0.41
21:AV:13:ASP:CB	21:AV:16:LEU:HD22	2.50	0.41
21:AV:40:ILE:CG1	21:AV:69:HIS:O	2.69	0.41
23:AX:6:ARG:C	23:AX:11:GLY:HA3	2.41	0.41
23:AX:6:ARG:NH1	23:AX:15:ARG:NH1	2.69	0.41
1:AA:1326:C:OP2	23:AX:6:ARG:NH2	2.53	0.41
48:B1:34:ALA:O	48:B1:35:SER:CB	2.69	0.41
49:B2:5:LYS:O	49:B2:6:VAL:HG23	2.20	0.41
50:B3:5:ILE:HG22	50:B3:7:PRO:N	2.35	0.41
52:B5:19:ARG:NH2	52:B5:41:PRO:CG	2.65	0.41
53:B6:45:ALA:O	53:B6:46:VAL:C	2.59	0.41
52:B5:25:LYS:HE2	54:B7:35:GLN:O	2.21	0.41
24:BA:1044:G:H4'	24:BA:1047:G:H1'	2.02	0.41
24:BA:1043:C:O2'	24:BA:1048:A:H1'	2.21	0.41
24:BA:1056:G:O4'	24:BA:1056:G:OP2	2.39	0.41
24:BA:976:C:H5'	24:BA:1156:A:N6	2.35	0.41
24:BA:1198:U:C2'	24:BA:1199:U:C5	3.00	0.41
24:BA:331:A:H61	24:BA:1209:G:H2'	1.85	0.41
24:BA:1237:A:O2'	24:BA:1238:G:O5'	2.37	0.41
24:BA:1241:A:O2'	24:BA:1242:A:P	2.78	0.41
24:BA:1243:G:N2	24:BA:1244:G:C4	2.88	0.41
24:BA:1270:C:C5'	24:BA:1271:G:OP1	2.69	0.41
24:BA:1374:G:C5	24:BA:1375:C:C5	3.09	0.41
24:BA:1344:G:C6	24:BA:1385:G:C5	3.09	0.41
24:BA:1406:U:O2	24:BA:1407:C:C6	2.74	0.41
24:BA:140:A:C2	24:BA:1408:C:O2	2.71	0.41
24:BA:1411:C:H2'	24:BA:1412:A:C8	2.55	0.41
24:BA:1513:C:C2'	24:BA:1514:U:H5	2.07	0.41
24:BA:1540:G:C6	24:BA:1541:U:H1'	2.56	0.41
24:BA:1559:G:C8	24:BA:1559:G:H3'	2.49	0.41
24:BA:1638:C:O2'	24:BA:2709:G:N2	2.54	0.41
24:BA:1668:A:N7	24:BA:1674:G:C6	2.88	0.41
24:BA:1685:C:HO2'	24:BA:1686:C:H5'	1.83	0.41
24:BA:1851:U:N3	24:BA:1852:C:N4	2.69	0.41
24:BA:1861:G:O2'	24:BA:1862:G:H5'	2.20	0.41
24:BA:1878:G:C4	24:BA:1879:C:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1937:A:N6	24:BA:1939:U:O4	2.54	0.41
24:BA:2018:G:P	24:BA:2018:G:H8	2.44	0.41
24:BA:2209:C:P	27:BD:151:LYS:HG2	2.61	0.41
24:BA:2218:G:C6	24:BA:2219:G:C5	3.08	0.41
24:BA:2219:G:H2'	24:BA:2224:G:O4'	2.21	0.41
24:BA:2292:C:O2'	24:BA:2293:C:O5'	2.36	0.41
24:BA:2307:G:H5'	24:BA:2308:G:OP2	2.21	0.41
24:BA:2333:A:C1'	24:BA:2335:A:C4	2.82	0.41
24:BA:2347:C:C2	24:BA:2348:U:C5	3.08	0.41
24:BA:2601:C:O2	24:BA:2603:G:N7	2.54	0.41
24:BA:2642:G:C2	24:BA:2643:G:C4	3.09	0.41
24:BA:2657:A:C6	24:BA:2665:A:C5	3.08	0.41
24:BA:2776:A:H5''	24:BA:2777:G:OP1	2.21	0.41
24:BA:2850:A:C4	24:BA:2869:G:C4'	3.04	0.41
24:BA:429:A:C2	24:BA:430:G:C6	3.09	0.41
24:BA:493:G:C2	24:BA:494:G:N9	2.88	0.41
24:BA:526:A:H4'	24:BA:527:C:OP1	2.20	0.41
24:BA:533:G:C4	24:BA:561:G:N2	2.89	0.41
24:BA:565:C:C4	24:BA:566:U:C4	3.09	0.41
24:BA:627:A:H1'	24:BA:637:A:C6	2.55	0.41
24:BA:665:C:O2	24:BA:666:G:N7	2.54	0.41
24:BA:722:A:C4	24:BA:723:G:C8	3.09	0.41
24:BA:728:G:H21	24:BA:730:C:H5'	1.82	0.41
24:BA:734:A:H2	24:BA:735:A:C1'	2.33	0.41
24:BA:752:A:H61	24:BA:2609:U:H3	1.68	0.41
24:BA:80:G:O2'	24:BA:347:A:N6	2.53	0.41
24:BA:832:G:H5''	24:BA:944:G:N2	2.35	0.41
24:BA:879:G:C6	24:BA:899:A:C4	3.09	0.41
25:BB:96:G:C8	25:BB:96:G:OP2	2.71	0.41
27:BD:119:ALA:HA	27:BD:123:ALA:CB	2.50	0.41
27:BD:94:LEU:HD22	27:BD:94:LEU:HA	1.37	0.41
27:BD:95:LEU:CD2	27:BD:95:LEU:C	2.89	0.41
28:BE:22:PRO:C	28:BE:23:VAL:HG13	2.41	0.41
28:BE:4:ILE:O	28:BE:27:LEU:HD22	2.20	0.41
28:BE:45:THR:HG1	28:BE:46:ALA:N	2.17	0.41
29:BF:195:ASP:O	29:BF:197:ASP:N	2.54	0.41
29:BF:35:GLU:HG3	29:BF:38:ARG:NH2	2.36	0.41
30:BG:53:LEU:HD22	30:BG:70:VAL:HA	1.96	0.41
30:BG:8:LYS:HD2	30:BG:12:TYR:CD2	2.53	0.41
31:BH:155:SER:O	31:BH:158:HIS:O	2.38	0.41
32:BK:24:GLY:CA	32:BK:27:ARG:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:7:VAL:CG1	33:BL:58:THR:HG21	2.51	0.41
33:BL:95:LYS:HB3	33:BL:98:ARG:HE	1.84	0.41
34:BM:53:VAL:CG1	34:BM:123:TYR:CE2	3.04	0.41
34:BM:74:ARG:NH1	34:BM:75:TYR:O	2.48	0.41
35:BN:78:ARG:CZ	35:BN:78:ARG:CA	2.99	0.41
36:BO:107:LYS:HZ1	36:BO:111:ARG:H	1.69	0.41
36:BO:114:ILE:CB	36:BO:123:LEU:HD11	2.50	0.41
36:BO:145:PRO:C	36:BO:146:VAL:CG2	2.89	0.41
36:BO:76:LYS:HZ1	36:BO:96:THR:CB	2.34	0.41
37:BP:58:PHE:C	37:BP:60:ARG:N	2.66	0.41
37:BP:59:ARG:C	37:BP:60:ARG:HD2	2.41	0.41
37:BP:65:PHE:O	37:BP:66:ILE:HD12	2.21	0.41
39:BR:77:ALA:O	39:BR:80:LEU:N	2.54	0.41
40:BS:23:ARG:NH1	40:BS:88:ILE:CG2	2.83	0.41
40:BS:64:ARG:O	40:BS:66:VAL:N	2.54	0.41
40:BS:5:ALA:O	40:BS:9:LEU:HG	2.21	0.41
41:BT:50:ARG:HH11	41:BT:50:ARG:HB2	1.81	0.41
41:BT:55:ARG:HG3	41:BT:58:ARG:HE	1.86	0.41
42:BU:20:LEU:HB3	42:BU:95:LEU:CD2	2.48	0.41
43:BV:28:SER:O	43:BV:30:GLU:N	2.54	0.41
43:BV:86:LEU:HD23	43:BV:87:PRO:CD	2.51	0.41
43:BV:8:ARG:O	43:BV:10:VAL:HG22	2.21	0.41
44:BW:25:LYS:HG2	44:BW:82:GLN:CB	2.49	0.41
24:BA:1335:U:P	44:BW:65:ARG:HG3	2.60	0.41
44:BW:89:ILE:O	44:BW:92:LEU:HB2	2.20	0.41
45:BX:38:ILE:C	45:BX:39:VAL:CG2	2.89	0.41
45:BX:85:VAL:HG12	45:BX:85:VAL:O	2.21	0.41
46:BY:109:ALA:C	46:BY:113:ALA:HB3	2.41	0.41
25:BB:102:G:C2'	46:BY:73:GLN:NE2	2.83	0.41
1:AA:101:A:O2'	1:AA:102:G:C5'	2.62	0.41
1:AA:1134:G:C6	1:AA:1141:C:N4	2.88	0.41
1:AA:1212:U:HO2'	1:AA:1213:A:P	2.44	0.41
1:AA:1224:G:O6	1:AA:1322:C:H1'	2.21	0.41
1:AA:121:C:H1'	1:AA:123:C:H41	1.85	0.41
1:AA:978:A:N6	1:AA:1360:A:H61	2.19	0.41
1:AA:1363:A:H5'	1:AA:1364:U:C6	2.56	0.41
1:AA:1432:G:P	40:BS:110:ILE:HG22	2.61	0.41
1:AA:1470:G:C2'	1:AA:1471:G:O5'	2.68	0.41
1:AA:184:G:N1	1:AA:194:C:N4	2.69	0.41
1:AA:199:G:O2'	1:AA:200:G:C5'	2.69	0.41
1:AA:262:A:N1	1:AA:263:A:N1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:308:C:HO2'	1:AA:309:G:P	2.44	0.41
1:AA:354:G:O2'	1:AA:355:C:O5'	2.39	0.41
1:AA:370:C:H2'	1:AA:371:G:O4'	2.21	0.41
1:AA:392:G:O2'	1:AA:483:C:O4'	2.39	0.41
1:AA:488:C:O2'	1:AA:489:C:H5'	2.21	0.41
1:AA:538:G:O3'	14:AO:114:LYS:HE2	2.20	0.41
1:AA:575:G:O2'	1:AA:576:G:H5'	2.20	0.41
1:AA:579:G:C6	1:AA:763:G:N1	2.89	0.41
1:AA:626:U:O3'	18:AS:38:TYR:CE2	2.73	0.41
1:AA:61:G:C5	1:AA:62:U:C2	3.09	0.41
1:AA:697:U:H3'	1:AA:698:G:H8	1.86	0.41
1:AA:73:G:C2	1:AA:74:C:C2	3.09	0.41
1:AA:741:G:C4	1:AA:742:G:C8	3.09	0.41
1:AA:753:A:H4'	1:AA:754:C:H5''	2.03	0.41
1:AA:756:C:O4'	10:AK:1:MET:HE2	2.20	0.41
1:AA:864:A:H2'	1:AA:865:A:O4'	2.20	0.41
1:AA:873:A:H4'	1:AA:874:G:OP2	2.20	0.41
1:AA:895:G:N3	1:AA:896:C:C5	2.89	0.41
1:AA:909:A:H2'	1:AA:910:C:O4'	2.21	0.41
1:AA:966:G:N3	2:AC:34:C:C4'	2.84	0.41
1:AA:979:C:H2'	1:AA:980:C:O5'	2.19	0.41
1:AA:993:G:O2'	1:AA:994:A:P	2.78	0.41
1:AA:1104:G:H4'	4:AE:111:ARG:NE	2.36	0.41
4:AE:31:TYR:CZ	4:AE:200:ILE:HG21	2.54	0.41
4:AE:54:THR:CB	4:AE:201:ILE:HD11	2.51	0.41
4:AE:42:ILE:CD1	4:AE:202:PRO:C	2.89	0.41
4:AE:14:GLY:CA	4:AE:209:ARG:NH2	2.66	0.41
4:AE:208:ILE:CA	4:AE:211:ILE:HB	2.39	0.41
4:AE:26:PRO:O	4:AE:28:PHE:N	2.54	0.41
5:AF:124:ILE:CD1	5:AF:130:VAL:HG13	2.50	0.41
5:AF:174:PRO:HB2	5:AF:177:THR:HG22	2.02	0.41
5:AF:189:ALA:HB2	5:AF:196:LEU:O	2.21	0.41
5:AF:88:ARG:CZ	5:AF:100:ALA:HA	2.50	0.41
6:AG:126:ILE:H	6:AG:149:ALA:HB2	1.86	0.41
6:AG:64:LEU:HD12	6:AG:75:PHE:HZ	1.83	0.41
1:AA:9:G:OP2	7:AH:122:GLU:OE1	2.39	0.41
7:AH:139:LEU:O	7:AH:141:GLN:O	2.38	0.41
8:AI:30:LEU:CA	8:AI:35:ALA:HB2	2.51	0.41
8:AI:49:ALA:HB3	20:AU:80:PRO:CD	2.49	0.41
9:AJ:12:LEU:CD1	9:AJ:21:VAL:HB	2.51	0.41
9:AJ:78:ARG:HB2	9:AJ:156:TRP:CH2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:120:THR:O	10:AK:121:ASP:O	2.39	0.41
10:AK:14:ARG:NH1	10:AK:14:ARG:CB	2.58	0.41
10:AK:63:LEU:HB2	10:AK:64:LYS:H	1.44	0.41
10:AK:6:ILE:HD13	10:AK:10:LEU:HG	2.03	0.41
11:AL:100:GLY:C	11:AL:101:PHE:CD1	2.94	0.41
13:AN:123:LYS:CA	13:AN:126:ARG:HB2	2.51	0.41
13:AN:23:ALA:CB	13:AN:88:GLY:CA	2.74	0.41
13:AN:31:THR:HA	13:AN:42:TRP:HB3	2.02	0.41
14:AO:54:LYS:O	14:AO:70:ILE:CG1	2.68	0.41
15:AP:82:MET:SD	15:AP:82:MET:O	2.78	0.41
16:AQ:22:THR:O	16:AQ:23:ARG:CG	2.66	0.41
17:AR:6:GLU:CG	17:AR:7:GLU:N	2.78	0.41
17:AR:79:ARG:O	17:AR:80:ALA:C	2.58	0.41
18:AS:51:VAL:O	18:AS:53:VAL:N	2.54	0.41
19:AT:11:VAL:C	19:AT:20:THR:HG1	2.24	0.41
19:AT:52:LYS:HB2	19:AT:52:LYS:HE3	1.75	0.41
19:AT:9:VAL:HG22	19:AT:10:VAL:O	2.21	0.41
20:AU:70:ILE:O	20:AU:73:ALA:HB3	2.20	0.41
23:AX:9:ARG:HB3	23:AX:10:ARG:H	1.74	0.41
48:B1:24:LYS:HE2	48:B1:56:LEU:HD21	2.03	0.41
24:BA:95:G:O2'	48:B1:39:LEU:O	2.37	0.41
48:B1:55:LEU:C	48:B1:58:VAL:HG13	2.41	0.41
50:B3:17:GLY:CA	50:B3:33:VAL:CG1	2.99	0.41
43:BV:35:ILE:CD1	51:B4:27:PRO:HB3	2.48	0.41
53:B6:19:ARG:HB3	53:B6:23:ARG:NE	2.36	0.41
54:B7:15:LYS:CA	54:B7:22:VAL:HG13	2.51	0.41
54:B7:44:LYS:CA	54:B7:44:LYS:CE	2.99	0.41
24:BA:1009:A:H8	41:BT:59:ARG:CZ	2.34	0.41
24:BA:1026:U:H2'	24:BA:1027:A:O5'	2.21	0.41
24:BA:1096:A:C8	24:BA:1097:U:N1	2.89	0.41
24:BA:1186:G:C3'	24:BA:1186:G:C8	3.04	0.41
24:BA:1286:A:N6	24:BA:1289:C:C2	2.89	0.41
24:BA:1321:A:N1	24:BA:1322:A:C1'	2.78	0.41
24:BA:1344:G:H4'	24:BA:1384:A:N1	2.35	0.41
24:BA:1345:C:C2	24:BA:1346:G:C8	3.09	0.41
24:BA:1372:U:C4	24:BA:1373:A:N7	2.88	0.41
24:BA:1477:A:C4'	24:BA:1478:G:OP2	2.66	0.41
24:BA:150:C:H2'	24:BA:151:C:C5	2.53	0.41
24:BA:1395:A:OP1	24:BA:1603:A:OP1	2.38	0.41
24:BA:1749:A:C6	24:BA:1750:G:C5	3.09	0.41
24:BA:1782:C:C2'	24:BA:1783:A:H5'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1787:A:H2'	24:BA:1788:C:O5'	2.21	0.41
24:BA:1791:A:C2	24:BA:1829:A:C4'	3.03	0.41
24:BA:1912:A:H8	24:BA:1913:A:O4'	2.04	0.41
24:BA:1915:U:OP1	24:BA:1915:U:H3'	2.20	0.41
24:BA:1916:A:C2	24:BA:1917:U:OP2	2.73	0.41
24:BA:1930:G:HO2'	24:BA:1931:U:P	2.39	0.41
24:BA:2020:A:C8	24:BA:2022:U:O4	2.74	0.41
24:BA:2213:U:H3'	24:BA:2215:G:N7	2.35	0.41
24:BA:2228:G:O6	24:BA:2229:C:C2	2.74	0.41
24:BA:2228:G:C8	24:BA:2229:C:C5	3.08	0.41
24:BA:2258:C:C2'	24:BA:2259:G:OP1	2.69	0.41
24:BA:225:A:C4	24:BA:226:G:C8	3.09	0.41
24:BA:2259:G:N1	24:BA:2282:G:O6	2.54	0.41
24:BA:2309:A:C5	24:BA:2310:A:C4	3.08	0.41
24:BA:2321:G:C2'	24:BA:2321:G:N3	2.84	0.41
24:BA:2362:G:H2'	24:BA:2363:C:H6	1.85	0.41
24:BA:2371:G:HO2'	24:BA:2372:G:C1'	2.33	0.41
24:BA:411:G:H5'	24:BA:2406:U:H3'	2.03	0.41
24:BA:2417:C:N4	24:BA:2418:A:H62	2.19	0.41
24:BA:2501:C:C5'	24:BA:2503:A:C1'	2.98	0.41
24:BA:2523:G:H1'	24:BA:2765:A:C6	2.56	0.41
24:BA:2551:C:H2'	24:BA:2552:U:O4'	2.21	0.41
24:BA:2596:U:C2'	27:BD:242:ARG:CD	2.98	0.41
24:BA:2436:G:O2'	24:BA:2598:A:C2	2.72	0.41
24:BA:2625:G:C2'	24:BA:2626:C:O5'	2.69	0.41
24:BA:2649:U:C2	24:BA:2650:U:C5	3.09	0.41
24:BA:270(P):C:OP2	32:BK:45:LYS:CD	2.66	0.41
24:BA:270(X):G:C6	24:BA:270(Y):G:H1'	2.56	0.41
24:BA:2742:C:O2	24:BA:2742:C:H2'	2.20	0.41
24:BA:388:G:C2'	24:BA:390:A:C5	3.02	0.41
24:BA:37:C:C2'	24:BA:38:A:O5'	2.69	0.41
24:BA:465:G:H3'	24:BA:465:G:C8	2.56	0.41
24:BA:47:C:N3	24:BA:179:G:C6	2.89	0.41
24:BA:488:G:H3'	24:BA:488:G:H8	1.83	0.41
24:BA:603:A:H5''	36:BO:98:GLU:CD	2.41	0.41
24:BA:671:C:C2	24:BA:672:C:C5	3.09	0.41
24:BA:67:U:O2'	24:BA:68:G:C5'	2.69	0.41
24:BA:693:C:H2'	24:BA:694:U:O4'	2.21	0.41
24:BA:713:G:C2'	24:BA:713:G:N3	2.80	0.41
24:BA:692:C:N3	24:BA:771:G:C2	2.89	0.41
24:BA:787:U:C6	24:BA:791:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:951:C:H2'	24:BA:952:G:O5'	2.21	0.41
24:BA:966:G:C1'	24:BA:2267:A:H61	2.33	0.41
25:BB:40:U:N3	25:BB:43:C:P	2.94	0.41
25:BB:69:G:N3	25:BB:70:C:C6	2.89	0.41
25:BB:70:C:O2	25:BB:71:C:C6	2.74	0.41
25:BB:77:U:C6	25:BB:77:U:C3'	3.03	0.41
27:BD:134:ARG:HB2	27:BD:135:PHE:HD1	1.86	0.41
27:BD:14:ARG:HD3	27:BD:14:ARG:HH11	1.76	0.41
24:BA:764:A:N3	27:BD:214:TRP:NE1	2.69	0.41
27:BD:224:ALA:HA	27:BD:233:HIS:ND1	2.36	0.41
27:BD:252:TRP:HB3	27:BD:253:GLN:OE1	2.21	0.41
27:BD:89:SER:O	27:BD:198:ASN:ND2	2.53	0.41
28:BE:102:VAL:HG22	28:BE:103:ASP:N	2.34	0.41
24:BA:2052:G:H21	28:BE:149:ARG:HB2	1.86	0.41
28:BE:49:LEU:HD12	28:BE:51:PHE:N	2.31	0.41
28:BE:91:VAL:HG22	28:BE:93:VAL:N	2.28	0.41
29:BF:10:PRO:C	29:BF:11:VAL:HG23	2.41	0.41
29:BF:50:SER:OG	29:BF:51:THR:N	2.54	0.41
29:BF:68:LYS:HB3	29:BF:69:HIS:H	1.49	0.41
30:BG:138:GLN:CG	30:BG:139:LEU:H	2.29	0.41
30:BG:153:ARG:O	30:BG:155:MET:CE	2.69	0.41
31:BH:116:GLU:HG2	31:BH:116:GLU:O	2.20	0.41
31:BH:125:VAL:HG12	31:BH:125:VAL:O	2.21	0.41
31:BH:152:ARG:CZ	31:BH:152:ARG:HA	2.51	0.41
31:BH:163:TYR:CE2	31:BH:169:VAL:HG11	2.52	0.41
31:BH:11:VAL:CB	31:BH:50:VAL:HG13	2.49	0.41
33:BL:19:PRO:HG2	33:BL:23:VAL:HB	2.02	0.41
33:BL:35:MET:O	33:BL:35:MET:SD	2.78	0.41
33:BL:41:PHE:O	33:BL:42:ASN:C	2.59	0.41
24:BA:1137:G:C1'	34:BM:105:GLY:HA3	2.51	0.41
34:BM:39:ARG:HG2	34:BM:40:PRO:CD	2.35	0.41
34:BM:54:VAL:HG13	34:BM:122:VAL:HB	2.03	0.41
34:BM:91:LEU:HA	34:BM:95:PRO:CA	2.51	0.41
34:BM:96:GLU:HG2	34:BM:97:ARG:H	1.80	0.41
36:BO:54:GLY:O	54:B7:12:LYS:NZ	2.42	0.41
36:BO:65:ARG:HB2	36:BO:66:GLY:H	1.39	0.41
37:BP:113:GLN:O	37:BP:116:GLU:HB2	2.21	0.41
37:BP:57:HIS:HB3	37:BP:117:ALA:HB2	2.03	0.41
37:BP:69:PHE:HA	37:BP:70:PRO:HD3	1.93	0.41
38:BQ:17:ARG:HH11	38:BQ:17:ARG:CB	2.16	0.41
38:BQ:28:LEU:O	38:BQ:31:HIS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:94:TYR:O	38:BQ:117:VAL:HG12	2.20	0.41
39:BR:98:VAL:C	39:BR:100:ALA:N	2.72	0.41
39:BR:11:LYS:HA	39:BR:14:VAL:HB	2.03	0.41
39:BR:78:LEU:O	39:BR:82:ILE:O	2.38	0.41
40:BS:76:PHE:HA	40:BS:77:PRO:HD2	1.74	0.41
41:BT:26:GLY:O	41:BT:27:LEU:CB	2.69	0.41
43:BV:49:LYS:O	43:BV:52:GLU:HB2	2.21	0.41
45:BX:8:LYS:HE3	45:BX:28:LYS:CE	2.50	0.41
45:BX:98:VAL:O	45:BX:99:CYS:C	2.59	0.41
46:BY:177:PRO:CG	46:BY:178:GLU:N	2.84	0.41
47:BZ:57:PHE:N	47:BZ:57:PHE:CD1	2.88	0.41
32:BK:68:LEU:HA	32:BK:68:LEU:HD23	1.64	0.41
32:BK:93:THR:O	32:BK:94:ALA:C	2.58	0.41
32:BK:88:ILE:CG2	32:BK:90:GLY:H	2.27	0.41
3:AD:64:C:C2	3:AD:65:U:C6	3.09	0.41
26:BC:100:ILE:CG2	26:BC:127:LEU:HG	2.32	0.41
26:BC:58:VAL:CG1	26:BC:199:HIS:HB3	2.43	0.41
26:BC:10:LEU:CD2	26:BC:220:PRO:HD3	2.26	0.41
26:BC:5:LYS:O	26:BC:6:ARG:C	2.59	0.41
3:AD:62:C:N3	3:AD:63:G:N7	2.68	0.41
26:BC:10:LEU:CD1	26:BC:220:PRO:CG	2.98	0.41
24:BA:2122:U:C1'	26:BC:166:ASP:OD2	2.69	0.41
26:BC:185:LEU:H	26:BC:185:LEU:HD23	1.84	0.41
26:BC:194:ARG:O	26:BC:196:LEU:N	2.53	0.41
26:BC:41:VAL:CG1	26:BC:215:THR:O	2.69	0.41
26:BC:22:ILE:HD13	26:BC:190:ARG:CD	2.48	0.41
26:BC:25:ALA:O	26:BC:27:HIS:N	2.54	0.41
24:BA:2108:C:H2'	24:BA:2109:U:H6	1.86	0.41
24:BA:2101:G:N1	24:BA:2102:U:C2	2.88	0.41
24:BA:171:G:C2	24:BA:172:C:C4	3.09	0.41
24:BA:2677:G:HO2'	24:BA:2678:C:H5'	1.81	0.41
1:AA:164:U:H2'	1:AA:165:C:C6	2.55	0.41
1:AA:1451:A:H8	1:AA:1451:A:OP1	2.03	0.41
24:BA:738:G:C2	24:BA:759:G:C5	3.09	0.41
24:BA:2462:U:O4	24:BA:2463:C:N4	2.54	0.41
24:BA:32:C:N1	24:BA:474:G:N2	2.69	0.41
24:BA:32:C:H1'	24:BA:474:G:H21	1.84	0.41
1:AA:158:G:H3'	1:AA:158:G:C8	2.55	0.41
1:AA:1091:U:C6	1:AA:1093:A:OP2	2.73	0.41
1:AA:1095:U:C2	1:AA:1096:C:C6	3.09	0.41
1:AA:1155:G:H2'	1:AA:1156:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:117:G:O6	1:AA:289:G:C1'	2.69	0.41
1:AA:1157:A:C2	1:AA:1180:A:C4	3.09	0.41
1:AA:1193:G:C5	1:AA:1194:U:C5	3.09	0.41
1:AA:1196:U:C4'	1:AA:1197:G:C5'	2.99	0.41
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.56	0.41
1:AA:124:G:N2	1:AA:238:G:H1'	2.36	0.41
1:AA:1253:G:H21	1:AA:1254:C:H1'	1.86	0.41
1:AA:1254:C:OP1	12:AM:45:ARG:CD	2.69	0.41
1:AA:1349:A:C2'	1:AA:1350:A:C8	2.93	0.41
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.86	0.41
1:AA:1504:G:H3'	1:AA:1504:G:C8	2.56	0.41
1:AA:15:G:H1	1:AA:920:U:H3	1.68	0.41
1:AA:237:C:H2'	1:AA:238:G:C8	2.53	0.41
1:AA:236:G:C2'	1:AA:237:C:H6	2.34	0.41
1:AA:298:A:H3'	1:AA:299:G:H8	1.86	0.41
1:AA:413:G:H2'	1:AA:414:A:OP2	2.21	0.41
1:AA:52:G:H2'	1:AA:53:A:C8	2.54	0.41
1:AA:605:U:C4	1:AA:606:G:N7	2.89	0.41
1:AA:595:G:H8	1:AA:641:U:O4	2.04	0.41
1:AA:721:G:H4'	1:AA:722:A:O4'	2.21	0.41
1:AA:664:G:O2'	1:AA:725:G:O2'	2.18	0.41
1:AA:764:C:O3'	1:AA:765:G:H8	2.03	0.41
1:AA:817:C:C1'	1:AA:818:G:C5'	2.98	0.41
1:AA:87:A:N7	1:AA:88:C:C2	2.89	0.41
1:AA:920:U:H5'	1:AA:1080:A:N6	2.37	0.41
1:AA:925:G:O2'	1:AA:927:G:OP1	2.34	0.41
1:AA:953:G:H5'	1:AA:965:A:H61	1.86	0.41
1:AA:981:U:C3'	1:AA:981:U:H6	2.34	0.41
3:AD:5:A:O2'	3:AD:6:G:O5'	2.39	0.41
4:AE:173:ALA:O	4:AE:175:ARG:N	2.54	0.41
4:AE:20:GLU:HB2	4:AE:190:THR:OG1	2.21	0.41
4:AE:80:ILE:HG13	4:AE:208:ILE:HD13	2.03	0.41
4:AE:20:GLU:HA	4:AE:21:ARG:NH1	2.36	0.41
4:AE:40:HIS:HB3	4:AE:190:THR:HG21	2.02	0.41
4:AE:56:ARG:O	4:AE:57:PHE:C	2.55	0.41
4:AE:67:THR:OG1	4:AE:155:LEU:CG	2.66	0.41
5:AF:142:MET:HG2	5:AF:170:GLN:HG3	2.03	0.41
5:AF:35:GLU:HA	5:AF:38:ARG:HD3	2.01	0.41
5:AF:42:LEU:HA	5:AF:45:LYS:CD	2.48	0.41
6:AG:149:ALA:O	6:AG:153:ARG:HG3	2.21	0.41
6:AG:145:GLU:CB	6:AG:184:LYS:HG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:16:THR:O	7:AH:26:PHE:CB	2.64	0.41
8:AI:10:LEU:N	8:AI:10:LEU:CD2	2.82	0.41
8:AI:12:PRO:CD	8:AI:13:ASN:H	2.34	0.41
8:AI:19:LEU:HD23	8:AI:23:LYS:CE	2.48	0.41
9:AJ:136:LYS:HB3	9:AJ:136:LYS:HE3	1.92	0.41
9:AJ:149:ARG:HB3	9:AJ:150:ALA:H	1.62	0.41
9:AJ:42:ILE:HG21	9:AJ:116:ALA:HB1	2.03	0.41
9:AJ:46:ALA:HB2	9:AJ:120:ILE:HD12	2.02	0.41
9:AJ:87:VAL:HG21	9:AJ:154:TYR:CB	2.46	0.41
10:AK:10:LEU:HD11	10:AK:85:ARG:CD	2.51	0.41
10:AK:18:ARG:HH12	10:AK:78:GLN:CD	2.22	0.41
10:AK:33:GLU:CG	10:AK:59:LEU:HD21	2.48	0.41
11:AL:23:ASN:ND2	11:AL:57:GLY:HA2	2.36	0.41
11:AL:9:ARG:HG2	11:AL:15:ALA:H	1.86	0.41
14:AO:27:LEU:HG	14:AO:28:LYS:HG3	2.03	0.41
14:AO:76:ASN:N	14:AO:76:ASN:OD1	2.54	0.41
15:AP:59:TYR:CD2	15:AP:60:VAL:HG23	2.49	0.41
15:AP:90:LEU:HD23	15:AP:93:ARG:CD	2.49	0.41
16:AQ:46:GLU:O	16:AQ:47:LEU:C	2.58	0.41
17:AR:34:LEU:C	17:AR:34:LEU:HD12	2.41	0.41
18:AS:1:MET:CB	18:AS:3:LYS:HZ1	2.30	0.41
19:AT:40:LYS:HZ3	19:AT:40:LYS:HB2	1.86	0.41
21:AV:18:LYS:O	21:AV:18:LYS:HE3	2.21	0.41
22:AW:73:HIS:O	22:AW:76:ALA:CB	2.69	0.41
22:AW:73:HIS:C	22:AW:74:LYS:O	2.58	0.41
22:AW:84:LEU:HD22	22:AW:84:LEU:HA	1.90	0.41
48:B1:36:ILE:CG2	48:B1:37:GLY:H	2.00	0.41
48:B1:55:LEU:CD1	48:B1:55:LEU:H	2.34	0.41
50:B3:59:PHE:HA	50:B3:62:ARG:NH2	2.35	0.41
24:BA:126:A:N7	53:B6:18:PHE:CZ	2.89	0.41
54:B7:26:LYS:C	54:B7:27:THR:CG2	2.90	0.41
54:B7:6:THR:O	54:B7:6:THR:CG2	2.60	0.41
24:BA:85:G:H1'	24:BA:103:A:N1	2.35	0.41
24:BA:1062:G:C2	33:BL:133:SER:O	2.74	0.41
24:BA:1029:A:H61	24:BA:1125:G:H2'	1.86	0.41
24:BA:1182:A:N3	24:BA:1182:A:C2'	2.81	0.41
24:BA:1194:A:C6	24:BA:1195:G:C5	3.08	0.41
24:BA:1210:A:H5''	24:BA:1211:U:C5'	2.50	0.41
24:BA:1265:A:C1'	24:BA:1267:U:N3	2.84	0.41
24:BA:1265:A:O5'	24:BA:1267:U:O2	2.39	0.41
24:BA:1287:A:H3'	24:BA:1288:U:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1443:G:H2'	24:BA:1444:G:O5'	2.21	0.41
24:BA:1470:G:N2	24:BA:1520:U:N3	2.69	0.41
24:BA:1394:U:C5'	24:BA:1604:C:OP1	2.69	0.41
24:BA:1659:U:H2'	24:BA:1660:C:O4'	2.20	0.41
24:BA:1682:G:C4	24:BA:1757:U:C1'	3.03	0.41
24:BA:1696:G:O2'	24:BA:1697:G:O4'	2.28	0.41
1:AA:702:A:C6	24:BA:1848:A:C2	3.09	0.41
24:BA:1872:A:H2'	24:BA:1878:G:C4'	2.48	0.41
24:BA:1881:C:C5'	24:BA:1881:C:C6	3.00	0.41
24:BA:1917:U:H5	24:BA:1918:A:C2	2.38	0.41
24:BA:1918:A:H8	24:BA:1919:A:N6	1.85	0.41
24:BA:1920:C:C6	24:BA:1920:C:H3'	2.56	0.41
24:BA:2021:C:H5'	24:BA:2022:U:C6	2.55	0.41
24:BA:2025:C:H2'	24:BA:2026:C:H6	1.77	0.41
24:BA:203:C:O5'	24:BA:203:C:C6	2.74	0.41
24:BA:2052:G:O2'	28:BE:143:ASN:C	2.60	0.41
24:BA:2076:U:H5'	24:BA:2077:A:P	2.61	0.41
24:BA:2269:A:H2'	24:BA:2270:G:O5'	2.20	0.41
24:BA:2298:A:N6	24:BA:2318:G:H21	2.18	0.41
24:BA:2298:A:C2'	24:BA:2299:G:H5'	2.51	0.41
24:BA:2303:G:H2'	24:BA:2304:G:O5'	2.19	0.41
24:BA:2383:G:N1	24:BA:2384:G:C6	2.89	0.41
24:BA:411:G:H4'	24:BA:2406:U:H5'	2.03	0.41
24:BA:2499:C:O5'	24:BA:2500:U:OP2	2.39	0.41
24:BA:2633:G:C6	24:BA:2634:G:C5	3.09	0.41
24:BA:2674:G:C2'	24:BA:2675:A:H8	2.33	0.41
24:BA:270(A):A:C2'	24:BA:366:C:O2'	2.69	0.41
24:BA:2750:A:C2	55:B8:18:ARG:NH1	2.88	0.41
24:BA:2772:C:OP2	24:BA:2772:C:H6	2.03	0.41
24:BA:2816:C:C2	24:BA:2817:G:C8	3.10	0.41
24:BA:326:G:H22	24:BA:337:C:C1'	2.33	0.41
24:BA:337:C:H2'	24:BA:338:G:H5''	2.03	0.41
24:BA:349:G:N3	24:BA:350:U:C4	2.89	0.41
24:BA:364:C:H2'	24:BA:365:C:O5'	2.21	0.41
24:BA:397:G:H5'	50:B3:59:PHE:CE2	2.56	0.41
24:BA:461:C:N4	24:BA:469:G:H21	2.18	0.41
24:BA:476:G:N2	24:BA:478:A:C8	2.84	0.41
24:BA:574:C:H2'	24:BA:574:C:O2	2.21	0.41
24:BA:656:G:O2'	24:BA:657:U:O5'	2.39	0.41
24:BA:685:A:O3'	24:BA:686:G:N2	2.46	0.41
24:BA:736:C:N3	24:BA:737:C:C5	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:763:G:H2'	24:BA:764:A:C5'	2.40	0.41
24:BA:802:A:N7	24:BA:803:U:C4	2.89	0.41
24:BA:803:U:C3'	24:BA:804:A:H5'	2.51	0.41
24:BA:810:U:OP1	24:BA:1253:A:C5	2.74	0.41
24:BA:840:C:H6	24:BA:840:C:O5'	2.04	0.41
24:BA:861:A:O2'	24:BA:862:G:H5'	2.19	0.41
24:BA:876:C:O5'	24:BA:876:C:H6	2.04	0.41
24:BA:991:C:H5'	24:BA:1185:C:C2'	2.46	0.41
25:BB:14:U:H1'	25:BB:107:U:O4'	2.21	0.41
25:BB:6:C:H5'	25:BB:27:C:O2'	2.21	0.41
27:BD:143:HIS:C	27:BD:145:VAL:N	2.73	0.41
27:BD:58:HIS:NE2	27:BD:214:TRP:O	2.53	0.41
24:BA:1825:A:H4'	27:BD:252:TRP:CZ3	2.56	0.41
27:BD:264:LYS:O	27:BD:267:SER:O	2.39	0.41
27:BD:70:TRP:HA	27:BD:73:VAL:HG12	2.01	0.41
27:BD:82:ILE:HG12	27:BD:93:ALA:HA	2.03	0.41
27:BD:63:ARG:NE	27:BD:85:ASP:HB3	2.36	0.41
28:BE:167:VAL:HG12	28:BE:170:LEU:HD22	2.02	0.41
29:BF:11:VAL:HG12	29:BF:12:LEU:N	2.35	0.41
29:BF:34:TRP:O	29:BF:37:VAL:N	2.54	0.41
29:BF:51:THR:O	29:BF:92:PRO:HD2	2.20	0.41
30:BG:125:PHE:N	30:BG:131:TYR:O	2.54	0.41
30:BG:117:PHE:HZ	30:BG:137:GLU:HB3	1.85	0.41
30:BG:47:LYS:NZ	30:BG:49:ASP:OD2	2.54	0.41
30:BG:43:LEU:CD2	30:BG:88:ILE:O	2.66	0.41
30:BG:8:LYS:CD	30:BG:100:TRP:HD1	2.33	0.41
31:BH:97:ARG:NH2	31:BH:104:GLU:OE1	2.54	0.41
32:BK:7:GLU:C	32:BK:14:ASP:CA	2.83	0.41
33:BL:103:GLN:CD	33:BL:103:GLN:C	2.79	0.41
33:BL:113:PRO:O	33:BL:118:THR:CG2	2.69	0.41
33:BL:22:PRO:O	33:BL:26:ALA:HB3	2.21	0.41
33:BL:24:GLY:HA2	33:BL:34:ILE:HG21	2.03	0.41
34:BM:104:LYS:O	34:BM:106:MET:N	2.53	0.41
24:BA:6:A:O2'	34:BM:135:PRO:CD	2.69	0.41
34:BM:3:THR:O	41:BT:64:ARG:NH1	2.54	0.41
35:BN:98:VAL:CG1	35:BN:122:LEU:HD21	2.51	0.41
35:BN:14:THR:OG1	35:BN:16:ALA:O	2.39	0.41
35:BN:67:LYS:N	35:BN:67:LYS:HD3	2.36	0.41
36:BO:78:PRO:HD2	36:BO:115:LEU:HB2	2.03	0.41
36:BO:130:PHE:C	36:BO:131:SER:O	2.58	0.41
36:BO:131:SER:O	36:BO:134:ALA:CB	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:72:PRO:HA	36:BO:110:TYR:CD2	2.56	0.41
37:BP:57:HIS:ND1	37:BP:117:ALA:HB2	2.35	0.41
37:BP:132:VAL:HB	37:BP:133:ARG:H	1.32	0.41
37:BP:83:MET:CG	37:BP:83:MET:O	2.69	0.41
37:BP:42:ILE:C	37:BP:94:VAL:HB	2.37	0.41
38:BQ:117:VAL:CG1	38:BQ:117:VAL:O	2.68	0.41
38:BQ:45:ARG:HB2	38:BQ:97:VAL:HG21	2.03	0.41
38:BQ:94:TYR:C	38:BQ:95:THR:CG2	2.89	0.41
39:BR:28:VAL:HG21	39:BR:101:LEU:HG	1.99	0.41
39:BR:101:LEU:HD22	39:BR:101:LEU:O	2.21	0.41
39:BR:79:ALA:O	39:BR:82:ILE:CA	2.69	0.41
40:BS:54:ARG:CD	40:BS:100:TYR:HB2	2.47	0.41
35:BN:106:LEU:CD2	40:BS:38:ASN:ND2	2.80	0.41
40:BS:61:PHE:O	40:BS:62:THR:CG2	2.63	0.41
41:BT:105:VAL:CA	41:BT:108:GLU:CD	2.88	0.41
41:BT:52:ARG:CB	41:BT:55:ARG:HD3	2.49	0.41
42:BU:80:GLN:CG	42:BU:81:TYR:CD1	3.03	0.41
43:BV:42:ARG:C	43:BV:44:ALA:N	2.72	0.41
43:BV:72:LYS:O	43:BV:73:ALA:HB3	2.21	0.41
43:BV:7:ALA:H	43:BV:103:ILE:HD13	1.85	0.41
24:BA:751:A:O4'	43:BV:90:ARG:HA	2.21	0.41
44:BW:59:VAL:O	44:BW:59:VAL:HG13	2.21	0.41
45:BX:92:ASN:HB2	45:BX:93:GLY:H	1.73	0.41
46:BY:138:GLU:O	46:BY:139:VAL:CG2	2.69	0.41
46:BY:98:MET:CE	46:BY:99:TYR:H	2.32	0.41
47:BZ:23:VAL:HA	47:BZ:38:VAL:HG11	2.01	0.41
32:BK:69:LYS:CE	32:BK:70:LYS:HG2	2.50	0.41
32:BK:78:THR:CA	32:BK:79:ILE:HD12	2.51	0.41
26:BC:160:ARG:HD3	26:BC:161:ILE:O	2.20	0.41
26:BC:64:LEU:CD1	26:BC:188:ASN:OD1	2.68	0.41
24:BA:1416:G:C2'	24:BA:1583:A:H61	2.34	0.41
32:BK:54:GLN:HG3	32:BK:58:LEU:HD23	2.03	0.41
1:AA:1451:A:H8	1:AA:1451:A:P	2.44	0.41
24:BA:2373:G:O2'	24:BA:2374:C:C5'	2.69	0.41
24:BA:1116:C:C2'	24:BA:1116:C:O2	2.59	0.41
29:BF:17:ARG:HE	29:BF:17:ARG:N	2.18	0.41
1:AA:101:A:O5'	1:AA:101:A:H8	2.03	0.40
1:AA:101:A:C2'	1:AA:102:G:H8	2.16	0.40
1:AA:1057:G:H2'	1:AA:1058:G:H8	1.85	0.40
1:AA:1145:C:C1'	1:AA:1146:A:C8	3.01	0.40
1:AA:1260:C:O4'	1:AA:1283:G:O2'	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1321:C:H6	1:AA:1321:C:C3'	2.31	0.40
1:AA:1376:U:O5'	1:AA:1376:U:H6	2.03	0.40
1:AA:17:U:C2	1:AA:18:C:C5	3.09	0.40
1:AA:306:G:N2	1:AA:307:C:C1'	2.83	0.40
1:AA:411:A:H3'	1:AA:411:A:C8	2.56	0.40
1:AA:424:G:O5'	1:AA:424:G:H8	2.04	0.40
1:AA:52:G:O2'	1:AA:53:A:C5'	2.53	0.40
1:AA:562:C:O2	14:AO:15:ARG:CA	2.69	0.40
1:AA:577:G:N2	1:AA:578:C:O2	2.54	0.40
1:AA:621:A:C6	1:AA:622:A:N6	2.88	0.40
1:AA:742:G:C2	1:AA:743:U:H1'	2.56	0.40
1:AA:764:C:H3'	1:AA:765:G:N7	2.36	0.40
1:AA:815:A:H8	1:AA:819:A:H2	1.69	0.40
1:AA:835:U:C2	1:AA:836:G:N7	2.89	0.40
1:AA:951:G:C5	1:AA:1231:G:C6	3.08	0.40
2:AC:75:C:H2'	2:AC:76:A:O3'	2.21	0.40
4:AE:236:TYR:O	4:AE:239:VAL:O	2.39	0.40
4:AE:22:LYS:HD2	4:AE:40:HIS:HE1	1.86	0.40
5:AF:114:PRO:O	5:AF:115:LEU:C	2.59	0.40
5:AF:82:GLU:O	5:AF:85:ARG:HB3	2.22	0.40
6:AG:123:HIS:HB3	6:AG:125:HIS:CE1	2.55	0.40
6:AG:78:LEU:CD2	6:AG:78:LEU:C	2.89	0.40
7:AH:104:ALA:HA	7:AH:107:ARG:HH11	1.86	0.40
7:AH:84:PHE:CD2	7:AH:130:ASN:OD1	2.74	0.40
7:AH:89:ILE:HD13	7:AH:90:VAL:H	1.84	0.40
9:AJ:113:GLU:OE2	9:AJ:119:ARG:CG	2.68	0.40
9:AJ:72:ARG:HG3	9:AJ:73:MET:H	1.86	0.40
9:AJ:72:ARG:CA	9:AJ:96:GLN:NE2	2.81	0.40
10:AK:15:ASN:O	10:AK:18:ARG:HB2	2.21	0.40
12:AM:95:GLU:O	12:AM:97:GLU:HG2	2.21	0.40
13:AN:82:VAL:HB	13:AN:108:ILE:CG1	2.46	0.40
13:AN:95:ILE:HA	13:AN:98:LEU:HD12	2.02	0.40
14:AO:60:LEU:CD2	14:AO:61:THR:O	2.70	0.40
15:AP:18:ALA:HB2	15:AP:45:VAL:HG21	2.03	0.40
15:AP:48:LEU:HD11	15:AP:56:LEU:CD1	2.51	0.40
16:AQ:40:CYS:O	16:AQ:44:LEU:HB3	2.21	0.40
17:AR:36:ILE:CA	17:AR:39:LEU:HD22	2.52	0.40
17:AR:7:GLU:O	17:AR:8:LYS:C	2.60	0.40
19:AT:11:VAL:O	19:AT:12:SER:CB	2.68	0.40
19:AT:16:GLN:O	19:AT:17:LYS:CB	2.69	0.40
19:AT:20:THR:HG23	19:AT:20:THR:H	1.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:49:LYS:HZ3	20:AU:49:LYS:HB2	1.86	0.40
20:AU:49:LYS:NZ	20:AU:49:LYS:HB2	2.35	0.40
20:AU:61:LYS:HA	20:AU:61:LYS:HD2	1.90	0.40
1:AA:1311:G:OP2	21:AV:2:PRO:N	2.54	0.40
22:AW:34:LYS:O	22:AW:35:THR:C	2.60	0.40
22:AW:86:ARG:HG3	22:AW:87:LYS:N	2.36	0.40
22:AW:88:VAL:O	22:AW:92:LEU:HD12	2.21	0.40
48:B1:63:ARG:CB	48:B1:63:ARG:CZ	2.99	0.40
49:B2:8:LEU:HD21	49:B2:28:LEU:HB3	2.03	0.40
50:B3:44:THR:CG2	50:B3:45:GLY:H	2.34	0.40
50:B3:55:ARG:HB3	50:B3:56:VAL:H	1.47	0.40
24:BA:2754:U:H5'	55:B8:15:LYS:NZ	2.36	0.40
24:BA:1000:A:C8	24:BA:1001:A:C5	3.09	0.40
24:BA:1064:C:O2'	24:BA:1065:U:OP1	2.30	0.40
24:BA:1176:G:C2'	24:BA:1177:A:H5'	2.39	0.40
24:BA:1224:G:O6	24:BA:1225:C:C4	2.74	0.40
24:BA:565:C:C4'	24:BA:1252:G:O6	2.69	0.40
24:BA:1256:G:C5	24:BA:1257:C:C5	3.09	0.40
24:BA:1270:C:C4'	24:BA:1271:G:C5'	2.97	0.40
24:BA:1309:G:O2'	24:BA:1310:G:H5'	2.21	0.40
24:BA:1331:A:HO2'	24:BA:1332:G:H8	1.60	0.40
24:BA:1379:A:O2'	24:BA:1380:G:OP2	2.35	0.40
24:BA:1432:C:C2	24:BA:1433:U:C2	3.09	0.40
24:BA:1449:A:H1'	24:BA:1529:A:C5	2.56	0.40
24:BA:145:G:N1	24:BA:146:G:C6	2.89	0.40
24:BA:1537:C:H3'	24:BA:1538:G:H5'	2.02	0.40
24:BA:1539:G:C8	24:BA:1540:G:C8	3.08	0.40
24:BA:1601:G:C2'	24:BA:1601:G:N3	2.84	0.40
24:BA:1603:A:N3	24:BA:1603:A:H2'	2.35	0.40
24:BA:1631:A:C8	24:BA:1631:A:OP1	2.74	0.40
24:BA:1669:A:O2'	24:BA:1670:C:P	2.76	0.40
24:BA:1708:C:C3'	24:BA:1709:U:H5''	2.49	0.40
24:BA:1776:G:C2	24:BA:1777:U:C5	3.09	0.40
24:BA:1778:U:O2'	24:BA:1779:U:P	2.79	0.40
24:BA:1915:U:O2	24:BA:1916:A:N7	2.54	0.40
24:BA:1954:G:C3'	24:BA:1954:G:P	3.09	0.40
24:BA:2014:A:H5''	43:BV:95:ILE:HD13	2.02	0.40
24:BA:2027:G:C4	24:BA:2028:U:C6	3.09	0.40
24:BA:570:G:C5	24:BA:2030:A:C2	3.09	0.40
24:BA:2093:G:P	32:BK:25:TYR:CE2	3.14	0.40
24:BA:2287:A:N7	24:BA:2289:G:C4	2.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2287:A:H2'	24:BA:2288:A:O5'	2.20	0.40
24:BA:227:A:O4'	24:BA:228:A:C2	2.74	0.40
24:BA:2325:G:C4	24:BA:2326:C:C5	3.09	0.40
24:BA:2335:A:C5	24:BA:2337:G:C2	3.09	0.40
24:BA:2349:G:C3'	24:BA:2350:C:C5'	2.95	0.40
24:BA:2349:G:H3'	24:BA:2350:C:C5'	2.45	0.40
3:AD:76:A:C4	24:BA:2432:A:N9	2.89	0.40
24:BA:1129:A:H4'	24:BA:2515:C:O2'	2.21	0.40
24:BA:2531:A:C2	24:BA:2532:G:N9	2.89	0.40
24:BA:270(C):C:N4	24:BA:270(D):C:H41	2.19	0.40
24:BA:2712(A):A:C8	24:BA:2712(A):A:C3'	3.04	0.40
24:BA:2730:C:H2'	24:BA:2731:G:H8	1.86	0.40
24:BA:2745:C:H1'	31:BH:143:GLN:HG2	2.02	0.40
24:BA:2839:G:N2	24:BA:2840:C:H1'	2.36	0.40
24:BA:326:G:H2'	24:BA:327:G:H8	1.85	0.40
24:BA:350:U:C2'	24:BA:350:U:O2	2.63	0.40
24:BA:357:A:H2'	24:BA:358:U:H6	1.87	0.40
24:BA:270:A:N1	24:BA:370:G:N9	2.68	0.40
24:BA:385:C:O2	24:BA:390:A:H2	2.04	0.40
24:BA:398:G:C2	24:BA:399:G:C1'	3.02	0.40
24:BA:485:C:H2'	24:BA:486:C:H6	1.87	0.40
24:BA:496:G:C5	24:BA:497:A:C5	3.09	0.40
24:BA:72:U:P	44:BW:3:THR:N	2.95	0.40
24:BA:735:A:H3'	24:BA:735:A:C8	2.57	0.40
24:BA:731:C:OP2	24:BA:761:A:P	2.80	0.40
24:BA:836:G:C5	24:BA:837:C:C4	3.10	0.40
24:BA:880:G:C5	24:BA:881:G:C1'	3.04	0.40
24:BA:882:G:C2	24:BA:883:G:C8	3.09	0.40
24:BA:909:A:O5'	24:BA:909:A:H8	2.05	0.40
25:BB:52:A:H2'	25:BB:53:A:O4'	2.21	0.40
27:BD:246:PRO:HD2	27:BD:250:TRP:C	2.40	0.40
27:BD:5:LYS:CB	27:BD:82:ILE:HB	2.49	0.40
28:BE:101:ARG:HD3	28:BE:101:ARG:HA	1.81	0.40
28:BE:12:THR:HB	28:BE:19:ARG:HE	1.86	0.40
28:BE:152:LYS:CD	28:BE:152:LYS:O	2.69	0.40
28:BE:154:LYS:HZ2	28:BE:156:MET:HB2	1.80	0.40
30:BG:173:LEU:HD12	30:BG:176:LEU:CD1	2.20	0.40
30:BG:49:ASP:N	30:BG:53:LEU:CD1	2.78	0.40
30:BG:60:LEU:HD23	30:BG:68:PRO:HG2	2.03	0.40
31:BH:85:LYS:CE	31:BH:142:GLY:HA2	2.51	0.40
31:BH:13:LYS:HG3	31:BH:15:VAL:HB	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:165:ALA:HB3	31:BH:167:GLU:OE1	2.20	0.40
31:BH:52:VAL:O	31:BH:65:HIS:HE1	2.03	0.40
31:BH:35:VAL:HG12	31:BH:71:LEU:CD2	2.50	0.40
33:BL:116:ASN:C	33:BL:117:THR:OG1	2.59	0.40
33:BL:112:MET:HE3	33:BL:118:THR:HB	2.02	0.40
33:BL:130:SER:O	33:BL:133:SER:CB	2.59	0.40
33:BL:11:GLN:O	33:BL:22:PRO:HG3	2.20	0.40
24:BA:1006:C:O2'	34:BM:106:MET:HB3	2.21	0.40
34:BM:10:GLU:O	34:BM:10:GLU:CG	2.68	0.40
34:BM:117:PHE:O	34:BM:120:LEU:O	2.39	0.40
35:BN:64:ARG:NH2	35:BN:65:THR:N	2.68	0.40
35:BN:87:ILE:O	35:BN:89:ASN:ND2	2.54	0.40
35:BN:13:ASN:H	35:BN:94:ARG:HB2	1.86	0.40
36:BO:56:SER:O	54:B7:13:ARG:CZ	2.69	0.40
37:BP:114:ALA:O	37:BP:115:MET:O	2.39	0.40
37:BP:125:LEU:HB3	37:BP:126:PRO:HD2	1.91	0.40
37:BP:41:TRP:HB3	37:BP:94:VAL:HG23	1.97	0.40
38:BQ:105:ARG:C	38:BQ:107:ASP:N	2.74	0.40
38:BQ:13:HIS:HD2	38:BQ:16:HIS:CE1	2.39	0.40
39:BR:16:ASN:O	39:BR:19:LYS:HB3	2.21	0.40
39:BR:94:TYR:O	39:BR:99:LYS:HD2	2.21	0.40
40:BS:104:ASN:CA	40:BS:107:ASP:OD2	2.69	0.40
40:BS:105:LEU:CG	40:BS:106:SER:N	2.72	0.40
40:BS:22:PHE:O	40:BS:24:PRO:CD	2.47	0.40
40:BS:26:ASP:HB3	40:BS:94:ALA:CA	2.47	0.40
40:BS:26:ASP:CB	40:BS:94:ALA:HA	2.48	0.40
41:BT:98:LEU:CD1	41:BT:105:VAL:HG11	2.50	0.40
41:BT:68:ALA:HB1	41:BT:72:HIS:HE1	1.85	0.40
41:BT:79:PHE:HE1	41:BT:83:LEU:HD13	1.85	0.40
41:BT:92:ARG:CG	41:BT:93:LYS:HZ3	2.18	0.40
42:BU:11:GLN:HB3	42:BU:21:ARG:CD	2.51	0.40
42:BU:35:LEU:O	42:BU:61:VAL:CA	2.69	0.40
42:BU:39:LEU:HA	42:BU:39:LEU:HD23	1.78	0.40
42:BU:60:GLU:C	42:BU:61:VAL:HG23	2.42	0.40
43:BV:52:GLU:N	43:BV:52:GLU:OE2	2.54	0.40
43:BV:81:ALA:HB3	43:BV:97:LYS:HB3	2.03	0.40
44:BW:47:PHE:HZ	44:BW:92:LEU:HD11	1.77	0.40
45:BX:100:ALA:O	45:BX:101:LYS:HD2	2.22	0.40
46:BY:10:ARG:HG3	46:BY:38:TYR:HH	1.85	0.40
46:BY:9:TYR:CB	46:BY:14:LYS:HG2	2.49	0.40
46:BY:150:LEU:O	46:BY:170:THR:CG2	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:104:PHE:CE1	46:BY:171:ILE:HD11	2.56	0.40
46:BY:30:ASN:OD1	46:BY:33:LEU:CG	2.69	0.40
46:BY:26:GLY:O	46:BY:37:VAL:O	2.40	0.40
46:BY:40:ASP:N	46:BY:44:PHE:CD1	2.89	0.40
3:AD:14:A:N3	3:AD:14:A:C2'	2.84	0.40
3:AD:50:G:N2	3:AD:65:U:C1'	2.84	0.40
3:AD:54:U:H2'	3:AD:55:U:C5'	2.48	0.40
24:BA:2123:G:H2'	24:BA:2124:G:O4'	2.21	0.40
26:BC:122:ALA:O	26:BC:126:LYS:HB2	2.21	0.40
26:BC:59:ARG:CZ	26:BC:164:ARG:NE	2.83	0.40
26:BC:181:PRO:HG2	26:BC:184:LYS:CE	2.51	0.40
26:BC:30:LYS:CG	26:BC:185:LEU:HD11	2.51	0.40
26:BC:225:ASN:HA	26:BC:226:PRO:HD2	1.83	0.40
26:BC:38:ASP:OD2	26:BC:178:ALA:CB	2.68	0.40
24:BA:1418:G:OP2	24:BA:1418:G:C8	2.74	0.40
32:BK:58:LEU:HA	32:BK:61:ARG:HE	1.86	0.40
1:AA:1041:A:C2	1:AA:1042:G:C8	3.09	0.40
24:BA:274:G:N2	24:BA:274:G:OP2	2.54	0.40
1:AA:161:A:C6	1:AA:162:A:C5	3.09	0.40
32:BK:117:GLU:N	32:BK:117:GLU:CD	2.73	0.40
7:AH:140:ARG:HB2	7:AH:140:ARG:CZ	2.50	0.40
1:AA:1087:G:N2	1:AA:1099:G:N3	2.69	0.40
1:AA:1185:G:C2'	1:AA:1186:G:H5'	2.51	0.40
1:AA:1202:G:O4'	16:AQ:29:ARG:NE	2.54	0.40
1:AA:1206:G:H2'	1:AA:1207:G:H8	1.86	0.40
1:AA:960:U:N3	1:AA:1225:A:N7	2.69	0.40
1:AA:1226:C:H2'	1:AA:1226:C:O2	2.22	0.40
1:AA:122:G:C4	1:AA:123:C:C6	3.10	0.40
1:AA:1324:A:C2	1:AA:1325:C:C6	3.08	0.40
1:AA:1324:A:N1	1:AA:1325:C:C4	2.88	0.40
1:AA:1394:A:O2'	1:AA:1395:C:P	2.78	0.40
1:AA:1423:G:O2'	1:AA:1424:C:H5'	2.22	0.40
1:AA:1498:U:C2'	1:AA:1499:A:C8	3.04	0.40
1:AA:1394:A:N6	1:AA:1501:C:O4'	2.39	0.40
1:AA:1522:U:O5'	1:AA:1522:U:H6	2.04	0.40
1:AA:265:G:C2'	1:AA:266:G:C5'	2.99	0.40
1:AA:376:G:O2'	1:AA:377:G:H5'	2.21	0.40
1:AA:465:A:C5	1:AA:467:G:C4	3.09	0.40
1:AA:50:A:H5''	1:AA:51:A:C3'	2.51	0.40
1:AA:511:C:C2'	1:AA:512:U:OP2	2.69	0.40
1:AA:544:G:C4	1:AA:545:C:C5	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:552:U:N3	1:AA:553:A:N7	2.68	0.40
1:AA:686:U:C2'	1:AA:687:A:O5'	2.70	0.40
1:AA:588:G:C5	1:AA:753:A:H2'	2.56	0.40
1:AA:777:A:C2'	1:AA:778:G:O5'	2.69	0.40
1:AA:817:C:C2'	1:AA:818:G:H5'	2.45	0.40
1:AA:915:A:C5	1:AA:916:G:C8	3.09	0.40
1:AA:864:A:C2	1:AA:917:G:C2	3.09	0.40
1:AA:948:C:C2'	1:AA:949:A:O5'	2.69	0.40
1:AA:969:A:OP1	1:AA:969:A:O4'	2.39	0.40
1:AA:9:G:N7	7:AH:126:ARG:NH1	2.69	0.40
2:AC:41:C:H3'	2:AC:41:C:OP2	2.20	0.40
3:AD:4:G:C4	3:AD:5:A:C8	3.09	0.40
4:AE:23:ARG:HB2	4:AE:23:ARG:NH1	2.36	0.40
4:AE:46:LYS:O	4:AE:47:THR:C	2.59	0.40
4:AE:55:PHE:O	4:AE:58:ILE:CB	2.70	0.40
5:AF:10:PHE:O	5:AF:178:LEU:CD2	2.69	0.40
5:AF:184:TYR:HD1	5:AF:201:TYR:CE2	2.40	0.40
5:AF:50:ALA:CB	5:AF:70:VAL:HG11	2.52	0.40
6:AG:150:GLU:C	6:AG:152:SER:N	2.74	0.40
6:AG:158:ILE:HG23	6:AG:162:LEU:HD21	2.02	0.40
7:AH:121:LYS:HE3	7:AH:121:LYS:HB3	1.69	0.40
7:AH:52:PRO:O	7:AH:56:GLN:NE2	2.55	0.40
8:AI:12:PRO:CB	8:AI:57:GLN:HE22	2.35	0.40
8:AI:85:VAL:CG1	8:AI:88:VAL:CG2	2.98	0.40
9:AJ:68:ASN:ND2	9:AJ:128:ALA:O	2.54	0.40
10:AK:54:ASP:HB2	10:AK:56:LYS:HD3	2.03	0.40
7:AH:151:LEU:HB3	10:AK:79:VAL:HG22	2.03	0.40
11:AL:96:LEU:C	11:AL:100:GLY:HA2	2.35	0.40
13:AN:62:GLN:CG	13:AN:63:LEU:N	2.83	0.40
14:AO:113:ARG:C	14:AO:114:LYS:CG	2.81	0.40
14:AO:34:ARG:HE	14:AO:34:ARG:HB3	1.68	0.40
14:AO:83:VAL:HG13	14:AO:84:LEU:N	2.36	0.40
18:AS:35:LYS:HD2	18:AS:35:LYS:C	2.40	0.40
18:AS:4:ILE:CD1	18:AS:65:GLN:O	2.68	0.40
19:AT:86:GLU:O	19:AT:87:LYS:C	2.59	0.40
22:AW:87:LYS:CG	22:AW:91:LEU:HD21	2.51	0.40
48:B1:38:GLN:O	48:B1:39:LEU:C	2.60	0.40
49:B2:40:THR:HG21	49:B2:42:ALA:HB3	2.04	0.40
53:B6:42:LEU:O	53:B6:45:ALA:N	2.48	0.40
24:BA:1056:G:H4'	24:BA:1084:A:N1	2.36	0.40
24:BA:1143:A:H2'	24:BA:1144:G:H8	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1198:U:C2'	24:BA:1199:U:C6	2.93	0.40
24:BA:1221:C:O2	24:BA:1221:C:C2'	2.69	0.40
24:BA:1256:G:C6	24:BA:1257:C:C4	3.09	0.40
24:BA:1274:A:C2	24:BA:1302:A:N6	2.89	0.40
24:BA:1313:U:H2'	24:BA:1314:C:O5'	2.21	0.40
24:BA:1334:G:C2'	24:BA:1335:U:O5'	2.69	0.40
24:BA:1420:U:OP2	24:BA:1420:U:C6	2.74	0.40
24:BA:136:G:H1	24:BA:144:C:N4	2.19	0.40
24:BA:1528:A:N7	24:BA:1529:A:C5	2.89	0.40
24:BA:1535:U:O2'	24:BA:1536:A:H5'	2.20	0.40
24:BA:15:G:C2'	24:BA:16:G:O5'	2.69	0.40
1:AA:1429:C:C1'	24:BA:1703:G:HO2'	2.34	0.40
24:BA:1707:G:C4	24:BA:1756:G:N3	2.89	0.40
24:BA:1707:G:C1'	24:BA:1756:G:H1'	2.51	0.40
24:BA:1798:U:OP1	27:BD:257:LEU:N	2.53	0.40
24:BA:1801:G:H2'	27:BD:263:ARG:HH22	1.85	0.40
24:BA:1808:U:O4	24:BA:1810:A:C6	2.75	0.40
24:BA:1880:C:H2'	24:BA:1880:C:O2	2.22	0.40
24:BA:1974:C:H2'	24:BA:1975:G:C5'	2.51	0.40
24:BA:198:C:C6	24:BA:198:C:O5'	2.75	0.40
24:BA:1990:C:C2	24:BA:1991:U:N3	2.89	0.40
24:BA:1997:G:H2'	24:BA:1998:G:C8	2.56	0.40
24:BA:2224:G:H4'	27:BD:262:ARG:NH2	2.33	0.40
24:BA:2233:U:H2'	24:BA:2234:G:C8	2.46	0.40
24:BA:2265:U:C4	24:BA:2266:A:C8	3.09	0.40
24:BA:2428:G:H5''	24:BA:2429:G:O5'	2.21	0.40
24:BA:2466:C:H5'	55:B8:5:ALA:HB1	2.03	0.40
24:BA:1783:A:N3	24:BA:2587:A:C2	2.89	0.40
24:BA:265:A:C6	24:BA:266:G:N3	2.89	0.40
24:BA:270(Z):U:OP1	24:BA:270(Z):U:H4'	2.21	0.40
24:BA:270(Z):U:C2'	24:BA:271(A):C:OP1	2.69	0.40
24:BA:280:C:C2	24:BA:283:A:C8	3.09	0.40
24:BA:2850:A:C4	24:BA:2851:A:N7	2.89	0.40
24:BA:364:C:C2'	24:BA:365:C:O5'	2.69	0.40
24:BA:3:U:H6	24:BA:3:U:O5'	2.04	0.40
24:BA:431:U:C2'	24:BA:431:U:O2	2.52	0.40
24:BA:457:A:C4'	24:BA:459:U:O2	2.70	0.40
24:BA:518:G:H4'	43:BV:18:ARG:HH11	1.87	0.40
24:BA:534:U:H2'	24:BA:535:C:H5	1.84	0.40
24:BA:558:G:C3'	24:BA:559:G:C5'	2.98	0.40
24:BA:585:G:C6	24:BA:1251:C:C6	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:617:G:N7	24:BA:618:G:N7	2.69	0.40
24:BA:637:A:H2	24:BA:651:G:H5''	1.83	0.40
24:BA:769:G:C2	24:BA:770:G:C8	3.09	0.40
24:BA:907:U:P	37:BP:26:TYR:OH	2.79	0.40
24:BA:920:G:O2'	24:BA:921:G:C5'	2.65	0.40
25:BB:74:U:H2'	25:BB:75:G:O4'	2.21	0.40
27:BD:106:ILE:HG13	27:BD:108:PRO:HD3	2.02	0.40
27:BD:126:GLN:HB3	27:BD:126:GLN:HE21	1.65	0.40
24:BA:1775:U:C6	27:BD:208:LYS:CE	3.04	0.40
27:BD:208:LYS:O	27:BD:209:ALA:C	2.59	0.40
27:BD:243:GLY:O	27:BD:244:ARG:HB2	2.20	0.40
27:BD:31:LYS:CD	27:BD:82:ILE:O	2.70	0.40
27:BD:38:LYS:C	27:BD:39:LYS:HG3	2.42	0.40
27:BD:70:TRP:N	27:BD:70:TRP:CD1	2.84	0.40
28:BE:109:LYS:CA	28:BE:191:PRO:HD3	2.51	0.40
24:BA:2787:C:O4'	28:BE:61:ARG:HD2	2.22	0.40
28:BE:92:THR:CA	28:BE:95:ILE:CB	2.95	0.40
29:BF:132:VAL:N	29:BF:138:GLU:HG3	2.35	0.40
29:BF:146:ALA:CB	29:BF:148:LEU:HD23	2.50	0.40
29:BF:33:LEU:HD23	29:BF:112:MET:SD	2.62	0.40
30:BG:157:ILE:HG12	30:BG:158:ALA:N	2.35	0.40
30:BG:176:LEU:C	30:BG:176:LEU:HD13	2.42	0.40
24:BA:2311:A:N3	30:BG:45:GLU:OE1	2.55	0.40
31:BH:124:GLU:HB2	31:BH:132:ARG:NE	2.36	0.40
31:BH:58:GLU:OE1	31:BH:61:HIS:N	2.54	0.40
31:BH:60:ARG:HD3	31:BH:64:LEU:CD1	2.51	0.40
32:BK:2:LYS:O	32:BK:4:ILE:CD1	2.69	0.40
33:BL:49:GLY:HA2	33:BL:53:VAL:HG21	1.99	0.40
34:BM:46:VAL:O	34:BM:47:ALA:HB3	2.21	0.40
34:BM:89:LYS:H	34:BM:89:LYS:CD	2.34	0.40
34:BM:97:ARG:O	34:BM:98:VAL:C	2.59	0.40
35:BN:47:ILE:HD11	35:BN:49:ARG:O	2.21	0.40
35:BN:64:ARG:NH1	35:BN:67:LYS:CA	2.84	0.40
35:BN:98:VAL:O	35:BN:99:PHE:HB2	2.21	0.40
36:BO:117:GLU:OE2	36:BO:117:GLU:N	2.39	0.40
24:BA:603:A:O5'	36:BO:80:TYR:OH	2.39	0.40
36:BO:97:PRO:HD3	36:BO:102:ARG:HH22	1.86	0.40
37:BP:34:LEU:HA	37:BP:131:ILE:CG1	2.24	0.40
37:BP:37:LEU:HD23	37:BP:37:LEU:HA	1.78	0.40
37:BP:83:MET:HG2	37:BP:83:MET:O	2.20	0.40
38:BQ:52:ILE:HG21	38:BQ:94:TYR:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:26:LYS:CE	38:BQ:70:LEU:HB3	2.51	0.40
39:BR:20:ARG:HH21	39:BR:20:ARG:CA	2.14	0.40
39:BR:65:VAL:HG13	39:BR:66:ALA:N	2.36	0.40
40:BS:4:GLY:CA	40:BS:8:LYS:HE3	2.50	0.40
41:BT:28:ARG:HB2	41:BT:38:THR:CG2	2.37	0.40
41:BT:70:ARG:CB	41:BT:70:ARG:NH1	2.85	0.40
41:BT:94:ASN:HD21	42:BU:6:LYS:CD	2.34	0.40
43:BV:33:ARG:HH22	43:BV:37:ARG:HG2	1.86	0.40
44:BW:29:TRP:O	44:BW:30:VAL:CG1	2.68	0.40
44:BW:35:THR:HG22	44:BW:37:THR:N	2.30	0.40
44:BW:63:LYS:NZ	44:BW:65:ARG:HH12	2.18	0.40
45:BX:38:ILE:HG23	45:BX:60:PHE:HZ	1.82	0.40
45:BX:75:ILE:O	45:BX:75:ILE:HG13	2.21	0.40
47:BZ:48:GLY:O	47:BZ:51:VAL:CB	2.68	0.40
32:BK:103:ARG:NE	32:BK:103:ARG:O	2.55	0.40
32:BK:121:LYS:C	32:BK:123:LEU:H	2.24	0.40
3:AD:19:G:O6	3:AD:56:C:N3	2.55	0.40
3:AD:56:C:N4	24:BA:2169:A:H1'	2.37	0.40
24:BA:2138:C:H2'	24:BA:2139:C:C5	2.53	0.40
26:BC:213:TYR:CZ	26:BC:223:ARG:NH2	2.90	0.40
26:BC:10:LEU:CD2	26:BC:33:ALA:HB2	2.51	0.40
26:BC:39:GLU:CG	26:BC:41:VAL:CG2	3.00	0.40
26:BC:62:VAL:HG11	26:BC:64:LEU:HD21	1.99	0.40
24:BA:154:G:H1	24:BA:173:G:H1	1.60	0.40
45:BX:108:THR:O	45:BX:109:GLU:OE2	2.38	0.40
1:AA:1452:C:O4'	1:AA:1453:G:N2	2.55	0.40
25:BB:-1:A:C8	25:BB:0:A:C1'	3.04	0.40
24:BA:1484:G:O2'	24:BA:1485:G:O5'	2.33	0.40
55:B8:31:LYS:HB3	55:B8:31:LYS:HE3	1.93	0.40
1:AA:1068:G:O6	1:AA:1108:G:N3	2.55	0.40
1:AA:1074:G:C2'	1:AA:1075:C:H5'	2.51	0.40
1:AA:1198:G:H2'	1:AA:1199:U:C5'	2.51	0.40
1:AA:1252:A:N3	1:AA:1253:G:C8	2.90	0.40
1:AA:1378:C:O2	1:AA:1379:G:O4'	2.39	0.40
1:AA:1394:A:H62	1:AA:1501:C:C4'	2.32	0.40
1:AA:1416:G:C4	1:AA:1417:G:C8	3.09	0.40
1:AA:1443:G:H4'	1:AA:1446:A:C4'	2.48	0.40
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.56	0.40
1:AA:20:U:H2'	1:AA:21:G:C5'	2.51	0.40
1:AA:376:G:C2	1:AA:377:G:C8	3.10	0.40
1:AA:497:U:O2	1:AA:498:A:H8	2.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:550:G:C4	1:AA:551:U:C5	3.09	0.40
1:AA:568:G:N2	1:AA:574:A:H2	2.19	0.40
1:AA:56:U:O2'	1:AA:57:G:H5'	2.21	0.40
1:AA:608:A:H2'	1:AA:609:A:H5'	2.02	0.40
1:AA:620:C:C2'	1:AA:621:A:C5'	2.99	0.40
1:AA:645:C:C2'	1:AA:646:U:H5'	2.52	0.40
1:AA:688:G:H2'	1:AA:689:C:C5'	2.50	0.40
1:AA:714:G:H2'	1:AA:715:A:C8	2.57	0.40
1:AA:737:A:OP1	8:AI:91:VAL:HG13	2.21	0.40
1:AA:244:U:O4	1:AA:893:C:N3	2.54	0.40
1:AA:934:C:N4	1:AA:939:G:H1	2.19	0.40
1:AA:951:G:N2	1:AA:952:U:C2	2.90	0.40
1:AA:996:A:C2	1:AA:997:U:C2	3.10	0.40
2:AC:37:A:C2'	2:AC:38:A:C8	2.89	0.40
2:AC:21:A:N6	2:AC:46:G:N1	2.69	0.40
4:AE:204:ASN:ND2	4:AE:204:ASN:C	2.75	0.40
4:AE:56:ARG:HA	4:AE:59:GLU:CG	2.52	0.40
4:AE:61:LEU:CB	4:AE:64:ARG:NH1	2.84	0.40
4:AE:97:TRP:CZ2	4:AE:99:GLY:HA3	2.56	0.40
5:AF:40:ARG:HG3	5:AF:57:ILE:CD1	2.49	0.40
5:AF:85:ARG:NH2	5:AF:89:GLU:HB2	2.21	0.40
6:AG:128:VAL:HG23	6:AG:132:ARG:HA	2.04	0.40
6:AG:24:GLU:CD	6:AG:24:GLU:C	2.79	0.40
6:AG:60:GLU:HG2	6:AG:202:LEU:CB	2.50	0.40
6:AG:66:ARG:O	6:AG:68:TYR:N	2.54	0.40
7:AH:141:GLN:HG3	7:AH:143:ARG:NH2	2.25	0.40
9:AJ:129:GLU:CD	9:AJ:131:LYS:HG2	2.42	0.40
9:AJ:36:LYS:CB	9:AJ:36:LYS:NZ	2.78	0.40
9:AJ:94:ARG:CZ	9:AJ:98:SER:OG	2.69	0.40
10:AK:103:VAL:HG11	10:AK:109:ILE:C	2.42	0.40
10:AK:112:LEU:HD12	10:AK:131:GLY:C	2.41	0.40
10:AK:19:VAL:C	10:AK:20:TYR:CG	2.92	0.40
10:AK:22:GLU:O	10:AK:63:LEU:HD13	2.20	0.40
1:AA:1347:G:OP1	11:AL:107:ARG:HG2	2.20	0.40
13:AN:85:ARG:CG	13:AN:85:ARG:NH1	2.84	0.40
15:AP:28:ALA:O	15:AP:32:GLU:HB2	2.21	0.40
15:AP:15:VAL:CB	15:AP:34:LEU:HD21	2.50	0.40
15:AP:70:LEU:CD2	15:AP:70:LEU:C	2.90	0.40
15:AP:7:VAL:O	15:AP:9:ILE:CD1	2.69	0.40
16:AQ:53:LEU:O	16:AQ:56:VAL:HG23	2.21	0.40
18:AS:4:ILE:HA	18:AS:20:VAL:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:17:LYS:HE3	19:AT:48:GLU:HA	2.03	0.40
19:AT:61:GLU:HA	19:AT:71:PHE:CZ	2.55	0.40
19:AT:75:ARG:NH1	19:AT:77:VAL:CA	2.82	0.40
20:AU:33:ASP:O	20:AU:34:TYR:CD2	2.74	0.40
20:AU:54:ARG:CG	20:AU:54:ARG:O	2.69	0.40
21:AV:58:VAL:HA	21:AV:59:PRO:HD2	1.98	0.40
22:AW:104:LEU:C	22:AW:105:SER:O	2.58	0.40
22:AW:59:ALA:O	22:AW:62:LEU:N	2.54	0.40
22:AW:75:ASN:O	22:AW:79:ARG:CD	2.69	0.40
48:B1:15:GLU:HB2	48:B1:16:LEU:H	1.76	0.40
48:B1:30:LEU:HD23	48:B1:30:LEU:H	1.85	0.40
50:B3:25:TYR:O	50:B3:26:SER:OG	2.31	0.40
51:B4:40:LYS:NZ	51:B4:44:THR:N	2.63	0.40
51:B4:41:PRO:HG2	51:B4:44:THR:OG1	2.21	0.40
52:B5:20:ASN:OD1	52:B5:42:TRP:NE1	2.53	0.40
53:B6:43:THR:HG23	53:B6:46:VAL:CG2	2.52	0.40
54:B7:26:LYS:HE3	54:B7:45:GLY:N	2.34	0.40
54:B7:33:ASN:HB2	54:B7:34:TRP:H	1.55	0.40
24:BA:1023:U:O4	24:BA:1024:G:H1'	2.20	0.40
24:BA:1035:U:H2'	24:BA:1036:G:O4'	2.21	0.40
24:BA:1076:C:C4	24:BA:1077:A:C8	3.09	0.40
24:BA:1130:U:O2'	24:BA:1131:G:P	2.79	0.40
24:BA:1025:G:C8	24:BA:1134:G:C1'	3.05	0.40
24:BA:1264:G:H5''	24:BA:1265:A:H3'	2.02	0.40
24:BA:1277:G:O2'	24:BA:1278:A:C5'	2.67	0.40
24:BA:1347:G:O6	24:BA:1348:G:O6	2.39	0.40
24:BA:1400:G:C4	24:BA:1401:G:N7	2.89	0.40
24:BA:1434:A:N1	24:BA:1435:G:C4	2.89	0.40
24:BA:1436:G:C2	24:BA:1437:C:C2	3.10	0.40
24:BA:1438:U:O2'	24:BA:1439:A:H5'	2.21	0.40
24:BA:1527:G:H2'	24:BA:1528:A:N3	2.37	0.40
24:BA:1553:A:H2'	24:BA:1555:G:N7	2.35	0.40
24:BA:1598:C:O5'	24:BA:1598:C:C6	2.74	0.40
24:BA:1682:G:O6	24:BA:1706:U:O4	2.39	0.40
24:BA:1712:C:C2'	24:BA:1716:U:C6	2.96	0.40
24:BA:1784:A:H2'	24:BA:1981:A:C8	2.54	0.40
24:BA:1871:A:C2'	24:BA:1872:A:O5'	2.70	0.40
24:BA:1939:U:O2	24:BA:2591:C:O2'	2.39	0.40
24:BA:190:A:C8	24:BA:207:A:C6	3.08	0.40
24:BA:2215:G:N2	24:BA:2216:G:C4	2.90	0.40
24:BA:2250:G:H3'	24:BA:2250:G:H8	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2285:C:H1'	24:BA:2288:A:C5	2.54	0.40
24:BA:2335:A:C6	24:BA:2337:G:N2	2.89	0.40
24:BA:247:G:H22	54:B7:8:LYS:NZ	2.19	0.40
24:BA:2489:G:O2'	24:BA:2490:G:O4'	2.27	0.40
24:BA:2531:A:H2'	24:BA:2532:G:C5'	2.51	0.40
24:BA:2634:G:C2	24:BA:2635:C:C6	3.10	0.40
24:BA:2751:G:N3	24:BA:2751:G:C2'	2.83	0.40
24:BA:2748:A:C6	24:BA:2756:U:N3	2.87	0.40
24:BA:2764:A:C8	24:BA:2766:G:N7	2.89	0.40
24:BA:2881:C:N3	24:BA:2882:A:N7	2.69	0.40
24:BA:296:C:C2	24:BA:297:C:C5	3.10	0.40
24:BA:300:A:C2	24:BA:333:G:N2	2.81	0.40
24:BA:659:C:H2'	24:BA:660:G:O5'	2.21	0.40
24:BA:751:A:C8	24:BA:751:A:O5'	2.67	0.40
24:BA:830:G:C2	24:BA:2448:A:N7	2.90	0.40
24:BA:89:G:N1	24:BA:90:U:O4	2.55	0.40
24:BA:843:G:N2	24:BA:936:C:C2	2.89	0.40
25:BB:5:C:O2	25:BB:6:C:C5	2.74	0.40
27:BD:137:PRO:O	27:BD:138:VAL:C	2.60	0.40
27:BD:20:ASP:C	27:BD:21:PHE:CD2	2.94	0.40
27:BD:263:ARG:O	27:BD:264:LYS:HD3	2.22	0.40
24:BA:2680:C:H4'	28:BE:188:VAL:HB	2.02	0.40
28:BE:34:VAL:CG1	28:BE:36:ARG:HH22	2.23	0.40
29:BF:142:TRP:HA	29:BF:145:GLU:OE2	2.21	0.40
29:BF:148:LEU:CG	29:BF:152:GLU:HG2	2.50	0.40
29:BF:194:MET:CE	29:BF:200:GLU:CG	2.94	0.40
29:BF:198:ALA:HB3	29:BF:199:TRP:CD1	2.56	0.40
29:BF:4:VAL:C	29:BF:6:VAL:N	2.74	0.40
31:BH:46:GLU:O	31:BH:48:GLY:N	2.55	0.40
33:BL:14:ALA:C	33:BL:16:LYS:H	2.24	0.40
34:BM:127:ASP:HA	34:BM:130:HIS:ND1	2.36	0.40
34:BM:14:VAL:HG22	34:BM:138:LEU:CB	2.52	0.40
34:BM:29:LYS:C	34:BM:31:ALA:N	2.74	0.40
24:BA:556:G:N2	34:BM:45:ASN:HD21	2.19	0.40
35:BN:111:PHE:C	35:BN:113:LYS:N	2.73	0.40
35:BN:111:PHE:O	35:BN:114:ILE:HB	2.21	0.40
35:BN:21:CYS:CA	35:BN:41:ALA:CB	2.80	0.40
24:BA:811:U:C4	36:BO:22:GLY:HA3	2.56	0.40
36:BO:57:THR:HG22	36:BO:58:THR:N	2.36	0.40
36:BO:91:PHE:CZ	36:BO:96:THR:HG22	2.54	0.40
37:BP:109:VAL:CG1	37:BP:114:ALA:CB	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:46:GLN:O	37:BP:47:ILE:C	2.60	0.40
37:BP:86:GLY:C	37:BP:88:GLY:N	2.75	0.40
37:BP:8:LYS:O	37:BP:9:TYR:C	2.59	0.40
38:BQ:57:ARG:O	38:BQ:88:ARG:NH2	2.55	0.40
25:BB:114:G:H5'	39:BR:47:THR:HB	2.04	0.40
39:BR:52:SER:OG	39:BR:69:VAL:CG1	2.62	0.40
40:BS:10:VAL:O	40:BS:13:ARG:HB2	2.21	0.40
40:BS:17:THR:CG2	40:BS:22:PHE:HZ	2.32	0.40
40:BS:2:ASN:HB3	40:BS:3:ARG:HD2	2.03	0.40
40:BS:2:ASN:O	40:BS:6:LEU:HD22	2.22	0.40
40:BS:3:ARG:HB2	40:BS:4:GLY:H	1.56	0.40
40:BS:59:THR:N	40:BS:61:PHE:CZ	2.87	0.40
41:BT:32:PHE:C	41:BT:35:ALA:HB3	2.41	0.40
42:BU:4:ILE:CA	42:BU:12:TYR:HD2	2.34	0.40
42:BU:43:GLU:H	42:BU:44:LYS:HE2	1.87	0.40
41:BT:40:PHE:HD2	42:BU:78:LYS:HG2	1.86	0.40
43:BV:29:LEU:O	43:BV:30:GLU:O	2.39	0.40
43:BV:20:VAL:HG21	43:BV:47:VAL:HG21	2.03	0.40
46:BY:107:THR:O	46:BY:108:PRO:O	2.39	0.40
46:BY:28:MET:HA	46:BY:28:MET:HE2	1.99	0.40
46:BY:6:LYS:HA	46:BY:37:VAL:HG12	1.99	0.40
47:BZ:70:GLN:HG2	47:BZ:72:ARG:HG2	2.03	0.40
47:BZ:78:TYR:CD1	47:BZ:78:TYR:N	2.90	0.40
32:BK:145:VAL:CG1	32:BK:146:ALA:N	2.84	0.40
3:AD:63:G:N1	3:AD:64:C:C4	2.90	0.40
26:BC:108:MET:SD	26:BC:131:LEU:CD2	3.10	0.40
26:BC:160:ARG:C	26:BC:161:ILE:CG1	2.90	0.40
24:BA:2094:G:O2'	24:BA:2095:C:H5'	2.21	0.40
24:BA:2340:G:C6	24:BA:2341:G:N7	2.88	0.40
24:BA:2096:U:C2'	24:BA:2097:C:C6	3.02	0.40
27:BD:79:VAL:CG1	27:BD:113:VAL:HA	2.51	0.40
48:B1:65:GLN:CA	48:B1:65:GLN:HE21	2.30	0.40
1:AA:1452:C:C5'	1:AA:1453:G:C2	3.04	0.40
33:BL:47:ASN:OD1	33:BL:47:ASN:O	2.40	0.40
1:AA:102:G:H2'	1:AA:103:C:C6	2.56	0.40
1:AA:998(A):C:C2	1:AA:1043:C:N3	2.89	0.40
1:AA:1113:C:C5	1:AA:1113:C:OP2	2.74	0.40
1:AA:1124:G:C2'	1:AA:1126:U:O4	2.60	0.40
1:AA:1246:C:C2'	1:AA:1247:U:O5'	2.70	0.40
1:AA:1257:U:O2'	1:AA:1258:G:C8	2.74	0.40
1:AA:133:U:H3	1:AA:229:U:H3	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:141:A:C1'	1:AA:182:U:H1'	2.51	0.40
1:AA:1443:G:O3'	1:AA:1446:A:C4'	2.65	0.40
1:AA:1465:C:C2	1:AA:1466:C:C6	3.09	0.40
1:AA:1477:C:C4	1:AA:1478:C:C5	3.09	0.40
1:AA:1509:C:H2'	1:AA:1510:U:C6	2.56	0.40
1:AA:194:C:O2'	1:AA:195:A:C4'	2.69	0.40
1:AA:196:A:C8	1:AA:196:A:H3'	2.56	0.40
1:AA:126:G:N1	1:AA:236:G:O6	2.54	0.40
1:AA:292:G:C8	1:AA:293:G:H1'	2.57	0.40
1:AA:307:C:C6	1:AA:307:C:C4'	3.04	0.40
1:AA:408:A:H5'	6:AG:116:GLN:CG	2.50	0.40
1:AA:501:C:P	14:AO:124:LYS:HD2	2.61	0.40
1:AA:551:U:C2	1:AA:552:U:C5	3.09	0.40
1:AA:592:G:H2'	1:AA:593:G:C5'	2.52	0.40
1:AA:596:C:C2'	1:AA:597:G:O5'	2.70	0.40
1:AA:644:G:O6	1:AA:645:C:N3	2.55	0.40
1:AA:655:A:O5'	1:AA:655:A:H8	2.05	0.40
1:AA:69:G:H2'	1:AA:73:G:C8	2.56	0.40
1:AA:730:G:N7	1:AA:731:G:C1'	2.81	0.40
1:AA:754:C:O5'	17:AR:72:ARG:CZ	2.69	0.40
1:AA:779:C:N3	1:AA:780:A:N3	2.69	0.40
1:AA:819:A:OP1	1:AA:820:U:H5	2.03	0.40
1:AA:835:U:O3'	20:AU:61:LYS:NZ	2.54	0.40
1:AA:85:U:H2'	1:AA:86:U:O4'	2.22	0.40
1:AA:931:C:O2	1:AA:931:C:H2'	2.20	0.40
1:AA:938:A:C2'	1:AA:939:G:C5'	2.95	0.40
1:AA:953:G:C6	1:AA:954:G:C5	3.10	0.40
2:AC:67:C:H2'	2:AC:68:C:H6	1.86	0.40
4:AE:136:VAL:C	4:AE:139:LYS:HG2	2.42	0.40
4:AE:163:PHE:CZ	4:AE:186:ALA:CA	3.04	0.40
4:AE:15:VAL:C	4:AE:16:HIS:HD1	2.25	0.40
4:AE:208:ILE:HA	4:AE:211:ILE:CB	2.39	0.40
6:AG:29:PRO:HA	6:AG:34:GLU:HG3	2.02	0.40
6:AG:59:ARG:CA	6:AG:59:ARG:NE	2.69	0.40
8:AI:11:ASN:HA	8:AI:86:ARG:NH1	2.36	0.40
8:AI:16:GLN:O	8:AI:18:GLN:N	2.55	0.40
8:AI:70:ASP:OD1	8:AI:71:ARG:HG2	2.21	0.40
8:AI:76:ALA:O	8:AI:79:LEU:CG	2.61	0.40
9:AJ:97:GLN:O	9:AJ:100:ALA:N	2.54	0.40
9:AJ:65:ALA:CA	9:AJ:128:ALA:HA	2.51	0.40
9:AJ:138:LYS:C	9:AJ:140:ASP:N	2.73	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:38:LEU:HD12	9:AJ:38:LEU:HA	1.91	0.40
9:AJ:99:LEU:HD23	9:AJ:99:LEU:HA	1.67	0.40
10:AK:111:ILE:CD1	10:AK:111:ILE:N	2.70	0.40
10:AK:27:PRO:N	10:AK:58:TYR:HE1	2.19	0.40
11:AL:33:PHE:HB3	11:AL:34:ASN:H	1.77	0.40
12:AM:14:LYS:O	12:AM:17:ASP:HB2	2.21	0.40
1:AA:684:A:C3'	13:AN:12:ARG:HH12	2.34	0.40
1:AA:689:C:OP1	13:AN:46:GLY:HA3	2.22	0.40
13:AN:63:LEU:O	13:AN:66:LEU:N	2.54	0.40
14:AO:28:LYS:HD2	14:AO:33:ARG:HH12	1.86	0.40
14:AO:7:ILE:HB	14:AO:8:ASN:H	1.64	0.40
15:AP:75:ALA:O	15:AP:76:ALA:C	2.59	0.40
16:AQ:24:CYS:C	16:AQ:26:ARG:N	2.72	0.40
5:AF:40:ARG:CZ	16:AQ:52:GLN:HG2	2.51	0.40
17:AR:25:THR:HA	17:AR:28:GLN:HG2	2.03	0.40
17:AR:36:ILE:HA	17:AR:39:LEU:CD2	2.51	0.40
19:AT:104:LYS:CD	19:AT:105:ALA:H	2.34	0.40
1:AA:235:C:H4'	19:AT:71:PHE:HE1	1.87	0.40
21:AV:47:HIS:O	21:AV:61:TYR:CD2	2.74	0.40
48:B1:13:PRO:O	48:B1:14:VAL:C	2.60	0.40
48:B1:2:ARG:H	48:B1:2:ARG:NE	2.18	0.40
51:B4:44:THR:C	51:B4:52:TYR:OH	2.59	0.40
52:B5:48:VAL:CG1	52:B5:49:HIS:N	2.82	0.40
53:B6:17:GLY:O	53:B6:20:ALA:HB3	2.21	0.40
54:B7:36:LYS:HA	54:B7:36:LYS:HD2	1.75	0.40
55:B8:10:ILE:H	55:B8:14:CYS:HB2	1.86	0.40
24:BA:1049:C:N4	24:BA:1051:G:C6	2.85	0.40
24:BA:1067:A:C6	24:BA:1068:G:O6	2.75	0.40
24:BA:1072:C:OP2	24:BA:1073:A:OP1	2.39	0.40
24:BA:1106:G:C2	24:BA:1107:G:C5	3.10	0.40
24:BA:1179:C:O2'	24:BA:1180:C:H6	2.03	0.40
24:BA:1244:G:H4'	36:BO:9:ASN:HB3	2.04	0.40
24:BA:124:G:OP1	24:BA:1376:C:H1'	2.20	0.40
24:BA:1262:A:C2'	24:BA:1263:U:H5'	2.51	0.40
24:BA:1451:C:C3'	24:BA:1453:A:H4'	2.42	0.40
24:BA:1520:U:C2'	24:BA:1521:G:C5'	2.76	0.40
24:BA:1525:G:O2'	24:BA:1526:G:O5'	2.39	0.40
24:BA:1529:A:H2'	24:BA:1530:G:H5'	2.03	0.40
24:BA:749:C:O2'	24:BA:1617:C:O3'	2.34	0.40
24:BA:1640:C:H2'	24:BA:1641:A:C8	2.56	0.40
24:BA:1711:C:C2'	24:BA:1712:C:H6	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1795:C:C2'	24:BA:1796:U:C5'	3.00	0.40
24:BA:1904:G:N2	24:BA:1905:C:C1'	2.85	0.40
24:BA:1915:U:H2'	24:BA:1915:U:O2	2.20	0.40
24:BA:1928:A:C3'	24:BA:1929:G:C5'	2.93	0.40
24:BA:1933:G:O6	24:BA:1968:G:N2	2.54	0.40
24:BA:2053:G:N1	24:BA:2054:A:C5	2.89	0.40
24:BA:2075:U:C3'	24:BA:2076:U:C5'	2.99	0.40
24:BA:2088:G:C6	24:BA:2089:U:C2	3.10	0.40
24:BA:2209:C:N4	24:BA:2213:U:OP1	2.55	0.40
24:BA:2252:G:C6	24:BA:2253:G:C6	3.09	0.40
24:BA:835:A:C1'	24:BA:2358:G:H1'	2.50	0.40
24:BA:2391:G:H22	24:BA:2427:C:C4'	2.34	0.40
24:BA:2438:U:HO2'	24:BA:2439:A:H5''	1.84	0.40
24:BA:2472:G:C2'	24:BA:2473:U:OP1	2.70	0.40
24:BA:2493:U:C4	24:BA:2494:G:C8	3.09	0.40
24:BA:2505:G:O6	24:BA:2576:G:H1'	2.21	0.40
24:BA:2528:U:C2'	24:BA:2529:G:O5'	2.69	0.40
24:BA:2532:G:C2'	24:BA:2533:A:H5'	2.52	0.40
24:BA:2647:U:O2'	24:BA:2648:C:C5'	2.68	0.40
24:BA:2646:C:H2'	24:BA:2647:U:O4'	2.22	0.40
24:BA:2776:A:N7	24:BA:2781:A:C6	2.89	0.40
24:BA:287:C:C2'	24:BA:288:C:H5	2.01	0.40
24:BA:312:G:H3'	24:BA:313:C:C6	2.56	0.40
24:BA:435:C:C2'	24:BA:436:C:O5'	2.69	0.40
24:BA:445:C:H5''	41:BT:3:ARG:HG3	2.03	0.40
24:BA:499:U:H2'	24:BA:500:G:H5'	2.03	0.40
24:BA:500:G:H2'	24:BA:501:A:H3'	2.02	0.40
24:BA:542:C:C2	24:BA:552:G:N2	2.89	0.40
24:BA:61:G:H2'	24:BA:62:C:H6	1.82	0.40
24:BA:603:A:C6	24:BA:625:G:C8	3.10	0.40
24:BA:625:G:C6	24:BA:626:U:O4'	2.74	0.40
24:BA:641:C:N4	24:BA:646:A:N6	2.69	0.40
24:BA:657:U:H2'	24:BA:658:C:H6	1.87	0.40
24:BA:754:C:C2'	24:BA:755:C:H5'	2.50	0.40
24:BA:680:G:C4	24:BA:798:G:N2	2.90	0.40
24:BA:857:C:O2'	47:BZ:23:VAL:CB	2.70	0.40
24:BA:907:U:P	37:BP:26:TYR:HH	2.44	0.40
24:BA:921:G:C2'	24:BA:922:U:H5'	2.51	0.40
24:BA:922:U:C2'	24:BA:922:U:O2	2.67	0.40
24:BA:92:G:C2	24:BA:93:C:C4	3.10	0.40
27:BD:141:VAL:HG13	27:BD:163:ALA:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:162:SER:O	27:BD:164:GLN:N	2.54	0.40
27:BD:208:LYS:HG2	27:BD:208:LYS:HZ2	1.76	0.40
27:BD:6:PHE:C	27:BD:28:GLU:OE1	2.60	0.40
27:BD:54:ARG:HG3	27:BD:221:VAL:CG2	2.51	0.40
24:BA:2823:A:P	28:BE:113:PHE:CZ	3.15	0.40
29:BF:164:ARG:HB2	29:BF:177:ALA:HB3	1.87	0.40
29:BF:64:ILE:O	29:BF:65:TRP:C	2.58	0.40
30:BG:14:GLU:O	30:BG:15:VAL:C	2.57	0.40
30:BG:148:MET:HG2	30:BG:151:ALA:HB2	2.02	0.40
30:BG:32:PRO:HB2	30:BG:163:ALA:CA	2.52	0.40
31:BH:103:LEU:HB2	31:BH:115:VAL:N	2.36	0.40
31:BH:118:PRO:HG2	31:BH:121:ILE:CG2	2.45	0.40
31:BH:160:LYS:O	31:BH:160:LYS:CG	2.70	0.40
31:BH:7:LEU:N	31:BH:7:LEU:CD2	2.83	0.40
32:BK:3:VAL:O	32:BK:18:VAL:CA	2.63	0.40
33:BL:7:VAL:HG13	33:BL:60:TYR:CZ	2.57	0.40
24:BA:1137:G:C2'	34:BM:105:GLY:HA3	2.51	0.40
34:BM:35:ARG:CD	34:BM:38:HIS:CB	2.85	0.40
35:BN:56:ASP:OD2	35:BN:56:ASP:N	2.53	0.40
35:BN:6:THR:HG23	35:BN:7:TYR:H	1.85	0.40
36:BO:130:PHE:HB3	36:BO:134:ALA:HB1	2.03	0.40
24:BA:662:G:C4'	36:BO:18:ARG:H	2.33	0.40
36:BO:24:GLY:HA2	36:BO:28:GLY:CA	2.50	0.40
38:BQ:107:ASP:OD1	38:BQ:109:ALA:CB	2.56	0.40
25:BB:51:G:OP1	39:BR:60:GLY:O	2.40	0.40
39:BR:70:GLY:HA2	39:BR:73:LEU:CD2	2.44	0.40
42:BU:13:ARG:O	42:BU:14:VAL:CG2	2.70	0.40
42:BU:1:MET:CE	42:BU:15:GLU:OE2	2.69	0.40
43:BV:2:GLU:HG2	43:BV:72:LYS:HZ2	1.87	0.40
43:BV:40:ASN:O	43:BV:41:LYS:CG	2.70	0.40
44:BW:26:TYR:CG	44:BW:89:ILE:CD1	3.05	0.40
44:BW:69:TYR:C	44:BW:70:LEU:HD12	2.42	0.40
44:BW:32:PRO:CA	44:BW:77:LYS:HD2	2.40	0.40
46:BY:102:LEU:HD11	46:BY:137:ILE:CG2	2.51	0.40
46:BY:105:VAL:O	46:BY:140:ASP:CB	2.69	0.40
47:BZ:71:ASP:O	47:BZ:73:GLY:N	2.52	0.40
3:AD:18:G:H3'	3:AD:18:G:C8	2.56	0.40
24:BA:2110:G:C6	24:BA:2120:G:N7	2.89	0.40
24:BA:2133:G:OP1	24:BA:2156:G:O2'	2.39	0.40
24:BA:2157:G:C2	24:BA:2157:G:OP2	2.74	0.40
26:BC:10:LEU:HD11	26:BC:32:LEU:CB	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:225:ASN:CG	26:BC:227:HIS:HB2	2.42	0.40
24:BA:2094:G:C6	24:BA:2196:C:C4	3.10	0.40
24:BA:2094:G:N2	24:BA:2196:C:C1'	2.79	0.40
24:BA:2338:G:C6	24:BA:2339:G:N7	2.90	0.40
25:BB:118:G:C2	25:BB:119:A:C8	3.09	0.40
1:AA:161:A:C2'	1:AA:162:A:H5'	2.51	0.40
24:BA:2191:G:C2	24:BA:2192:G:H1'	2.56	0.40
24:BA:2343:C:H5'	24:BA:2374:C:OP1	2.20	0.40
25:BB:20:C:C2'	25:BB:21:G:H5'	2.52	0.40
24:BA:1413:G:C5	24:BA:1414:G:C8	3.09	0.40
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.87	0.40
1:AA:1213:A:C6	1:AA:1215:G:N3	2.90	0.40
1:AA:1242:C:N3	1:AA:1243:C:C5	2.89	0.40
1:AA:128:G:H5'	19:AT:2:PRO:N	2.37	0.40
1:AA:1303:C:C4	1:AA:1304:G:C5	3.10	0.40
1:AA:135:C:O2	18:AS:1:MET:HG2	2.21	0.40
1:AA:1378:C:N3	1:AA:1379:G:H1'	2.37	0.40
1:AA:1399:C:O2'	1:AA:1400:C:OP2	2.35	0.40
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.86	0.40
1:AA:1428:A:C6	1:AA:1429:C:N4	2.89	0.40
1:AA:336:C:H1'	1:AA:1468:A:C2	2.56	0.40
1:AA:21:G:N2	1:AA:916:G:C4	2.90	0.40
1:AA:293:G:C2	1:AA:294:U:C5	3.09	0.40
1:AA:298:A:N6	1:AA:299:G:C2	2.90	0.40
1:AA:418:C:C4	1:AA:419:C:C5	3.10	0.40
1:AA:69:G:C2	1:AA:73:G:C8	3.09	0.40
1:AA:710:G:O2'	1:AA:711:G:H5'	2.22	0.40
1:AA:726:C:O2'	1:AA:727:G:H5'	2.21	0.40
1:AA:731:G:H2'	1:AA:732:C:O4'	2.22	0.40
1:AA:768:A:N7	1:AA:769:G:N7	2.69	0.40
1:AA:90:C:C4	1:AA:91:C:C5	3.10	0.40
1:AA:75:C:C2	1:AA:96:G:C2	3.10	0.40
1:AA:1338:G:H21	2:AC:30:G:H21	1.69	0.40
2:AC:35:A:H5'	2:AC:35:A:H8	1.84	0.40
3:AD:72:C:H3'	3:AD:73:A:C8	2.55	0.40
3:AD:76:A:H5'	24:BA:2432:A:H4'	2.03	0.40
4:AE:21:ARG:HA	4:AE:39:ILE:HG13	2.03	0.40
4:AE:69:LEU:O	4:AE:162:ILE:HA	2.21	0.40
4:AE:70:PHE:O	4:AE:92:TYR:CA	2.69	0.40
4:AE:70:PHE:O	4:AE:92:TYR:HA	2.22	0.40
5:AF:142:MET:HB3	5:AF:149:ALA:CB	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:142:MET:HB2	5:AF:149:ALA:N	2.37	0.40
5:AF:33:LEU:HD11	16:AQ:54:PRO:CD	2.51	0.40
5:AF:6:HIS:HA	5:AF:7:PRO:HD2	1.72	0.40
1:AA:620:C:N1	6:AG:135:LEU:HD13	2.36	0.40
6:AG:32:ALA:HB3	6:AG:33:MET:HE3	2.04	0.40
7:AH:151:LEU:HD11	10:AK:67:PRO:HG2	2.02	0.40
7:AH:26:PHE:HB2	7:AH:27:ARG:H	1.43	0.40
7:AH:39:GLY:C	7:AH:68:GLU:OE2	2.60	0.40
7:AH:78:HIS:NE2	7:AH:142:LEU:HB3	2.36	0.40
8:AI:52:ILE:CG2	8:AI:87:ARG:NH1	2.75	0.40
9:AJ:26:PHE:CD1	9:AJ:26:PHE:O	2.74	0.40
9:AJ:50:ILE:O	9:AJ:54:THR:C	2.59	0.40
9:AJ:65:ALA:N	9:AJ:128:ALA:CB	2.85	0.40
9:AJ:76:ARG:C	9:AJ:156:TRP:CZ2	2.95	0.40
10:AK:103:VAL:HG21	10:AK:109:ILE:CA	2.51	0.40
10:AK:49:GLU:OE2	10:AK:51:VAL:HG22	2.22	0.40
1:AA:1347:G:N7	11:AL:107:ARG:CZ	2.84	0.40
11:AL:45:ALA:CB	11:AL:74:ILE:HG22	2.51	0.40
13:AN:27:ASN:H	13:AN:56:GLY:HA2	1.85	0.40
13:AN:44:SER:N	13:AN:47:VAL:HG23	2.37	0.40
13:AN:57:THR:O	13:AN:58:PRO:C	2.57	0.40
13:AN:79:SER:HA	13:AN:104:GLN:CD	2.42	0.40
14:AO:45:PRO:O	14:AO:46:LYS:O	2.39	0.40
1:AA:523:A:H62	14:AO:53:ARG:HH22	1.67	0.40
14:AO:68:ALA:HB1	14:AO:99:HIS:N	2.36	0.40
14:AO:32:PHE:HB2	14:AO:84:LEU:HD21	2.02	0.40
15:AP:23:TYR:HE2	15:AP:70:LEU:CD2	2.34	0.40
16:AQ:47:LEU:HB2	16:AQ:53:LEU:HD11	2.03	0.40
17:AR:64:ARG:HA	17:AR:67:LEU:HG	2.03	0.40
19:AT:7:THR:CB	19:AT:57:VAL:O	2.70	0.40
19:AT:70:ARG:O	19:AT:71:PHE:CD1	2.74	0.40
22:AW:50:GLU:O	22:AW:54:LYS:HG3	2.22	0.40
54:B7:34:TRP:HB3	54:B7:36:LYS:HB2	2.02	0.40
54:B7:55:ALA:C	54:B7:57:ARG:N	2.73	0.40
54:B7:4:MET:O	54:B7:5:LYS:C	2.59	0.40
24:BA:1028:A:N3	24:BA:2486:G:O2'	2.52	0.40
24:BA:1069:A:C8	24:BA:1074:G:C5	3.10	0.40
24:BA:1076:C:O2	33:BL:91:PRO:CD	2.66	0.40
24:BA:1113:U:C5	24:BA:1113:U:OP2	2.75	0.40
24:BA:1170:G:N1	24:BA:1180:C:C4	2.90	0.40
24:BA:1237:A:O2'	24:BA:1238:G:C4'	2.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1242:A:C5'	24:BA:1243:G:OP2	2.69	0.40
24:BA:1314:C:O5'	24:BA:1314:C:C6	2.74	0.40
24:BA:1343:G:O6	24:BA:1344:G:N7	2.55	0.40
24:BA:1370:C:C5	24:BA:1371:G:N7	2.89	0.40
24:BA:1395:A:C4	24:BA:1398:C:C5	3.10	0.40
24:BA:1477:A:H2	24:BA:1516:U:O2	2.05	0.40
24:BA:1552:G:H2'	24:BA:1552:G:N3	2.35	0.40
24:BA:1559:G:C4	24:BA:1559:G:C3'	2.98	0.40
24:BA:1562:A:H2'	24:BA:1563:G:C8	2.55	0.40
24:BA:1655:A:C8	24:BA:1656:C:C5	3.10	0.40
24:BA:1689:A:C5	24:BA:1700:A:C4	3.10	0.40
24:BA:1779:U:N3	24:BA:1784:A:H2	2.20	0.40
24:BA:1787:A:H2'	24:BA:1788:C:C5'	2.52	0.40
24:BA:178:G:C5	24:BA:179:G:C8	3.09	0.40
24:BA:1791:A:N1	24:BA:1829:A:H4'	2.37	0.40
24:BA:1819:A:H2'	24:BA:1820:U:OP2	2.22	0.40
24:BA:1853:A:H2	24:BA:2087:G:N3	2.19	0.40
24:BA:188:G:H2'	24:BA:189:G:C5'	2.52	0.40
24:BA:1926:U:C2'	24:BA:1927:A:O5'	2.69	0.40
24:BA:2026:C:C2'	24:BA:2027:G:H5'	2.51	0.40
24:BA:2072:G:C6	24:BA:2438:U:N3	2.90	0.40
24:BA:2092:U:OP1	24:BA:2199:A:O2'	2.33	0.40
24:BA:2239:G:N3	24:BA:2239:G:H2'	2.37	0.40
24:BA:2277:G:OP1	37:BP:86:GLY:HA3	2.21	0.40
24:BA:2281:C:C2'	24:BA:2282:G:O5'	2.70	0.40
24:BA:2325:G:H22	24:BA:2389:G:N2	2.19	0.40
24:BA:2325:G:N3	24:BA:2326:C:C5	2.89	0.40
24:BA:2392:A:H1'	36:BO:55:ARG:CZ	2.51	0.40
24:BA:2415:G:N2	24:BA:2416:C:C2	2.89	0.40
24:BA:2436:G:C5	24:BA:2437:U:C6	3.10	0.40
24:BA:2545:G:N1	24:BA:2546:U:O2	2.54	0.40
24:BA:2579:C:H3'	24:BA:2580:U:C6	2.54	0.40
24:BA:2588:G:N7	24:BA:2589:A:N7	2.69	0.40
24:BA:260:G:C2	24:BA:261:G:C8	3.09	0.40
24:BA:2620:C:C4	24:BA:2621:A:N7	2.90	0.40
24:BA:2660:A:N7	31:BH:175:LYS:NZ	2.69	0.40
24:BA:2711:A:H5'	24:BA:2714:G:O5'	2.22	0.40
24:BA:2711:A:OP1	24:BA:2712(A):A:P	2.80	0.40
24:BA:2742:C:OP1	55:B8:2:LYS:CE	2.69	0.40
24:BA:2811:G:H22	24:BA:2891:G:H1'	1.84	0.40
24:BA:2834:G:C3'	24:BA:2834:G:C8	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2856:C:HO2'	24:BA:2857:G:H5'	1.85	0.40
24:BA:2877:G:C6	24:BA:2878:U:C4	3.10	0.40
24:BA:396:G:C2	24:BA:397:G:C4	3.10	0.40
24:BA:404:C:C2'	24:BA:404:C:O2	2.67	0.40
24:BA:452:G:O6	24:BA:458:G:C6	2.75	0.40
24:BA:522:G:O2'	24:BA:523:C:C5'	2.62	0.40
24:BA:570:G:N1	24:BA:2030:A:H2	2.20	0.40
24:BA:593:G:N3	24:BA:593:G:H2'	2.37	0.40
24:BA:638:G:C8	24:BA:638:G:H3'	2.57	0.40
24:BA:592:G:N2	24:BA:666:G:C5	2.90	0.40
24:BA:666:G:H2'	24:BA:667:U:C6	2.56	0.40
24:BA:674:G:H5''	29:BF:74:ARG:CZ	2.48	0.40
24:BA:680:G:H2'	24:BA:681:G:O5'	2.22	0.40
24:BA:729:G:C5	24:BA:730:C:C5	3.07	0.40
24:BA:772:C:O3'	27:BD:48:ARG:HD3	2.20	0.40
24:BA:799:G:C8	24:BA:800:A:C8	3.10	0.40
24:BA:805:G:C1'	24:BA:831:G:O2'	2.69	0.40
24:BA:954:G:H2'	24:BA:955:C:C5'	2.52	0.40
24:BA:959:A:C6	24:BA:960:A:C6	3.10	0.40
25:BB:18:G:H1'	25:BB:67:G:N2	2.35	0.40
25:BB:51:G:OP2	25:BB:51:G:H8	2.04	0.40
25:BB:52:A:C2	25:BB:53:A:O4'	2.73	0.40
25:BB:96:G:C2	25:BB:97:G:C5	3.10	0.40
27:BD:176:ARG:NH1	27:BD:182:LEU:CD1	2.77	0.40
27:BD:214:TRP:C	27:BD:216:GLY:N	2.75	0.40
27:BD:217:ARG:HG3	27:BD:218:ARG:CG	2.52	0.40
27:BD:61:LEU:HB3	27:BD:62:TYR:H	1.61	0.40
27:BD:64:ILE:HD13	27:BD:65:ILE:CA	2.51	0.40
27:BD:66:ASP:OD1	27:BD:67:PHE:N	2.54	0.40
28:BE:154:LYS:O	28:BE:154:LYS:CD	2.70	0.40
28:BE:154:LYS:NZ	28:BE:156:MET:CB	2.74	0.40
28:BE:12:THR:N	28:BE:21:VAL:HB	2.36	0.40
29:BF:138:GLU:N	29:BF:138:GLU:OE2	2.48	0.40
29:BF:145:GLU:C	29:BF:147:GLY:N	2.74	0.40
29:BF:155:LEU:HD23	29:BF:174:VAL:HG21	2.04	0.40
29:BF:41:LEU:CD1	29:BF:42:ALA:N	2.82	0.40
29:BF:7:TYR:O	29:BF:18:ARG:CG	2.68	0.40
30:BG:137:GLU:HG2	30:BG:138:GLN:N	2.37	0.40
30:BG:168:GLU:O	30:BG:169:ALA:C	2.59	0.40
30:BG:55:LYS:C	30:BG:57:ALA:N	2.74	0.40
30:BG:53:LEU:CD2	30:BG:72:ARG:HD3	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:57:A:H5'	30:BG:81:LYS:O	2.20	0.40
31:BH:152:ARG:O	31:BH:162:ILE:HG22	2.20	0.40
31:BH:172:LYS:HB2	31:BH:172:LYS:HZ2	1.77	0.40
31:BH:7:LEU:O	31:BH:52:VAL:HG12	2.21	0.40
33:BL:101:TRP:HB3	33:BL:102:GLU:H	1.69	0.40
33:BL:79:ARG:O	33:BL:82:ALA:HB3	2.21	0.40
24:BA:1012:U:O4	34:BM:25:ARG:O	2.38	0.40
34:BM:33:LEU:CD1	34:BM:34:LEU:N	2.68	0.40
35:BN:31:LYS:C	35:BN:32:TYR:CD2	2.95	0.40
35:BN:43:VAL:CG2	35:BN:45:GLU:O	2.69	0.40
35:BN:57:VAL:CG2	35:BN:85:VAL:HG22	2.52	0.40
35:BN:97:ARG:O	35:BN:118:ALA:HB1	2.21	0.40
35:BN:97:ARG:NE	35:BN:98:VAL:HG22	2.28	0.40
36:BO:80:TYR:CG	36:BO:85:LEU:HD11	2.57	0.40
37:BP:40:ALA:HB1	37:BP:41:TRP:CZ3	2.57	0.40
37:BP:46:GLN:OE1	37:BP:126:PRO:CB	2.67	0.40
38:BQ:105:ARG:NE	38:BQ:106:GLY:H	2.20	0.40
38:BQ:37:THR:O	38:BQ:38:VAL:C	2.60	0.40
40:BS:2:ASN:O	40:BS:5:ALA:CB	2.65	0.40
40:BS:34:VAL:C	40:BS:36:GLU:N	2.73	0.40
40:BS:66:VAL:H	40:BS:66:VAL:HG23	1.38	0.40
40:BS:18:ASP:CB	40:BS:81:PRO:HA	2.51	0.40
40:BS:82:LEU:O	40:BS:85:LYS:CD	2.70	0.40
41:BT:88:ILE:HG22	42:BU:55:ALA:CB	2.51	0.40
42:BU:4:ILE:O	42:BU:39:LEU:O	2.39	0.40
41:BT:112:ARG:NH1	42:BU:50:PRO:CG	2.85	0.40
43:BV:27:LYS:H	43:BV:71:VAL:HG12	1.83	0.40
43:BV:59:VAL:HG21	43:BV:66:GLU:CA	2.51	0.40
44:BW:8:ILE:H	44:BW:9:LEU:CD1	2.33	0.40
45:BX:2:ARG:NE	45:BX:3:VAL:N	2.69	0.40
45:BX:52:SER:HB3	45:BX:56:PRO:HA	2.03	0.40
45:BX:6:HIS:HB3	45:BX:7:VAL:H	1.58	0.40
24:BA:85:G:P	45:BX:8:LYS:HE2	2.61	0.40
46:BY:6:LYS:NZ	46:BY:10:ARG:NH2	2.69	0.40
46:BY:14:LYS:O	46:BY:17:ALA:N	2.55	0.40
46:BY:2:GLU:OE2	46:BY:58:VAL:C	2.60	0.40
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CE2	2.56	0.40
24:BA:2132:U:O2	24:BA:2134:A:OP2	2.40	0.40
26:BC:10:LEU:CD1	26:BC:220:PRO:HG3	2.51	0.40
32:BK:54:GLN:CA	32:BK:57:ARG:NH2	2.84	0.40
24:BA:2094:G:N7	24:BA:2095:C:C5	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2094:G:H22	24:BA:2196:C:H1'	1.83	0.40
24:BA:2341:G:C3'	24:BA:2342:C:C6	3.05	0.40
24:BA:274:G:C2	24:BA:274:G:OP2	2.74	0.40
1:AA:345:C:C4'	1:AA:346:G:O5'	2.61	0.40
1:AA:1007:C:O2'	1:AA:1008:C:C5'	2.70	0.40
40:BS:37:GLY:HA3	40:BS:42:ILE:O	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:-1:A:O2'	25:BB:-1:A:O2'[15_545]	2.14	0.06

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AE	232/256 (91%)	119 (51%)	48 (21%)	65 (28%)	0	0
5	AF	204/239 (85%)	117 (57%)	41 (20%)	46 (22%)	0	2
6	AG	206/209 (99%)	99 (48%)	52 (25%)	55 (27%)	0	0
7	AH	148/162 (91%)	89 (60%)	26 (18%)	33 (22%)	0	2
8	AI	99/101 (98%)	62 (63%)	14 (14%)	23 (23%)	0	1
9	AJ	153/156 (98%)	65 (42%)	45 (29%)	43 (28%)	0	0
10	AK	136/138 (99%)	71 (52%)	28 (21%)	37 (27%)	0	0
11	AL	125/128 (98%)	57 (46%)	38 (30%)	30 (24%)	0	1
12	AM	96/105 (91%)	53 (55%)	21 (22%)	22 (23%)	0	1
13	AN	117/129 (91%)	63 (54%)	28 (24%)	26 (22%)	0	2
14	AO	122/132 (92%)	60 (49%)	29 (24%)	33 (27%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
15	AP	123/126 (98%)	64 (52%)	33 (27%)	26 (21%)	0	2
16	AQ	58/61 (95%)	24 (41%)	16 (28%)	18 (31%)	0	0
17	AR	86/89 (97%)	43 (50%)	26 (30%)	17 (20%)	0	3
18	AS	81/88 (92%)	46 (57%)	22 (27%)	13 (16%)	0	5
19	AT	102/105 (97%)	63 (62%)	20 (20%)	19 (19%)	0	3
20	AU	71/88 (81%)	29 (41%)	23 (32%)	19 (27%)	0	0
21	AV	78/93 (84%)	32 (41%)	24 (31%)	22 (28%)	0	0
22	AW	97/106 (92%)	31 (32%)	43 (44%)	23 (24%)	0	1
23	AX	22/27 (82%)	11 (50%)	5 (23%)	6 (27%)	0	0
26	BC	226/229 (99%)	110 (49%)	62 (27%)	54 (24%)	0	1
27	BD	270/276 (98%)	110 (41%)	66 (24%)	94 (35%)	0	0
28	BE	204/206 (99%)	108 (53%)	40 (20%)	56 (28%)	0	0
29	BF	206/210 (98%)	106 (52%)	45 (22%)	55 (27%)	0	0
30	BG	180/182 (99%)	71 (39%)	52 (29%)	57 (32%)	0	0
31	BH	172/180 (96%)	75 (44%)	50 (29%)	47 (27%)	0	0
32	BK	146/148 (99%)	85 (58%)	36 (25%)	25 (17%)	0	4
33	BL	136/147 (92%)	68 (50%)	38 (28%)	30 (22%)	0	2
34	BM	137/140 (98%)	63 (46%)	28 (20%)	46 (34%)	0	0
35	BN	120/122 (98%)	60 (50%)	24 (20%)	36 (30%)	0	0
36	BO	143/150 (95%)	52 (36%)	40 (28%)	51 (36%)	0	0
37	BP	134/141 (95%)	53 (40%)	36 (27%)	45 (34%)	0	0
38	BQ	115/118 (98%)	60 (52%)	37 (32%)	18 (16%)	0	5
39	BR	108/112 (96%)	43 (40%)	35 (32%)	30 (28%)	0	0
40	BS	115/146 (79%)	55 (48%)	27 (24%)	33 (29%)	0	0
41	BT	115/118 (98%)	46 (40%)	40 (35%)	29 (25%)	0	1
42	BU	99/101 (98%)	53 (54%)	19 (19%)	27 (27%)	0	0
43	BV	108/113 (96%)	64 (59%)	20 (18%)	24 (22%)	0	2
44	BW	92/96 (96%)	53 (58%)	18 (20%)	21 (23%)	0	1
45	BX	108/110 (98%)	39 (36%)	34 (32%)	35 (32%)	0	0
46	BY	178/206 (86%)	85 (48%)	50 (28%)	43 (24%)	0	1
47	BZ	83/85 (98%)	48 (58%)	20 (24%)	15 (18%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
48	B1	65/67 (97%)	30 (46%)	20 (31%)	15 (23%)	0	1
49	B2	57/60 (95%)	33 (58%)	12 (21%)	12 (21%)	0	2
50	B3	69/71 (97%)	20 (29%)	23 (33%)	26 (38%)	0	0
51	B4	55/60 (92%)	14 (26%)	22 (40%)	19 (34%)	0	0
52	B5	47/54 (87%)	15 (32%)	8 (17%)	24 (51%)	0	0
53	B6	47/49 (96%)	18 (38%)	14 (30%)	15 (32%)	0	0
54	B7	62/65 (95%)	23 (37%)	18 (29%)	21 (34%)	0	0
55	B8	35/37 (95%)	21 (60%)	6 (17%)	8 (23%)	0	1
All	All	5988/6337 (94%)	2879 (48%)	1522 (25%)	1587 (26%)	0	1

All (1587) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	AE	13	ALA
4	AE	15	VAL
4	AE	17	PHE
4	AE	20	GLU
4	AE	42	ILE
4	AE	44	LEU
4	AE	76	GLN
4	AE	77	ALA
4	AE	87	ARG
4	AE	88	ALA
4	AE	96	ARG
4	AE	97	TRP
4	AE	99	GLY
4	AE	104	ASN
4	AE	124	SER
4	AE	127	ILE
4	AE	128	GLU
4	AE	130	ARG
4	AE	131	PRO
4	AE	153	ARG
4	AE	154	LEU
4	AE	161	ALA
4	AE	165	VAL
4	AE	172	ILE
4	AE	178	ARG
4	AE	181	PHE

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Mol	Chain	Res	Type
4	AE	191	ASP
4	AE	194	PRO
4	AE	195	ASP
4	AE	211	ILE
4	AE	232	PRO
5	AF	4	LYS
5	AF	12	LEU
5	AF	14	ILE
5	AF	24	ALA
5	AF	27	LYS
5	AF	28	GLN
5	AF	49	SER
5	AF	52	LEU
5	AF	53	ALA
5	AF	60	ALA
5	AF	64	VAL
5	AF	65	ALA
5	AF	83	ARG
5	AF	84	ILE
5	AF	95	THR
5	AF	97	LYS
5	AF	119	ARG
5	AF	127	ARG
5	AF	129	ALA
5	AF	146	ALA
5	AF	157	ILE
5	AF	161	GLU
5	AF	179	ARG
6	AG	17	VAL
6	AG	18	LYS
6	AG	21	LEU
6	AG	29	PRO
6	AG	31	CYS
6	AG	39	PRO
6	AG	40	PRO
6	AG	41	GLY
6	AG	42	GLN
6	AG	47	ARG
6	AG	73	ARG
6	AG	86	LYS
6	AG	99	SER
6	AG	109	GLY

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Mol	Chain	Res	Type
6	AG	117	ALA
6	AG	125	HIS
6	AG	127	THR
6	AG	131	ARG
6	AG	142	PRO
6	AG	150	GLU
6	AG	151	LYS
6	AG	163	GLU
6	AG	170	VAL
6	AG	179	GLU
6	AG	181	MET
6	AG	192	GLU
6	AG	195	ALA
6	AG	198	VAL
6	AG	199	ASN
7	AH	21	ALA
7	AH	55	VAL
7	AH	77	PRO
7	AH	116	THR
7	AH	125	SER
7	AH	128	PRO
7	AH	144	THR
7	AH	153	LYS
8	AI	11	ASN
8	AI	16	GLN
8	AI	35	ALA
8	AI	36	ARG
8	AI	53	ALA
8	AI	81	ILE
8	AI	82	ARG
8	AI	83	ASP
8	AI	84	ASN
8	AI	95	GLU
8	AI	97	PHE
9	AJ	6	ARG
9	AJ	14	PRO
9	AJ	17	VAL
9	AJ	31	MET
9	AJ	33	ASP
9	AJ	37	ASN
9	AJ	52	GLU
9	AJ	56	GLN

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Mol	Chain	Res	Type
9	AJ	90	GLU
9	AJ	91	VAL
9	AJ	92	SER
9	AJ	94	ARG
9	AJ	111	ARG
9	AJ	113	GLU
9	AJ	121	ALA
9	AJ	134	ALA
9	AJ	142	GLU
9	AJ	149	ARG
9	AJ	150	ALA
10	AK	6	ILE
10	AK	13	ILE
10	AK	23	SER
10	AK	30	ARG
10	AK	31	PHE
10	AK	63	LEU
10	AK	70	GLN
10	AK	75	ARG
10	AK	76	PRO
10	AK	77	GLU
10	AK	78	GLN
10	AK	87	SER
10	AK	103	VAL
10	AK	105	ARG
10	AK	121	ASP
10	AK	129	VAL
11	AL	33	PHE
11	AL	43	ALA
11	AL	44	VAL
11	AL	55	ALA
11	AL	70	LYS
11	AL	71	SER
11	AL	94	ALA
11	AL	103	THR
11	AL	109	VAL
11	AL	110	GLU
11	AL	114	TYR
11	AL	116	LYS
11	AL	118	LYS
12	AM	33	GLN
12	AM	34	VAL

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Mol	Chain	Res	Type
12	AM	41	PRO
12	AM	56	HIS
12	AM	60	ARG
12	AM	61	GLU
12	AM	72	VAL
12	AM	79	ARG
12	AM	90	LEU
12	AM	96	ILE
13	AN	15	ALA
13	AN	27	ASN
13	AN	34	ASP
13	AN	48	ILE
13	AN	54	ARG
13	AN	78	GLN
13	AN	102	GLY
13	AN	106	LYS
13	AN	115	PRO
13	AN	116	HIS
14	AO	18	VAL
14	AO	19	ARG
14	AO	22	SER
14	AO	28	LYS
14	AO	30	ALA
14	AO	41	ARG
14	AO	46	LYS
14	AO	48	PRO
14	AO	51	ALA
14	AO	62	SER
14	AO	73	GLU
14	AO	83	VAL
14	AO	87	GLY
14	AO	91	LYS
14	AO	100	ILE
14	AO	116	SER
14	AO	127	GLU
15	AP	11	ARG
15	AP	12	ASN
15	AP	14	ARG
15	AP	84	ILE
15	AP	101	GLN
15	AP	104	ARG
15	AP	107	ALA

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Mol	Chain	Res	Type
15	AP	114	ARG
15	AP	118	ALA
15	AP	121	LYS
15	AP	124	PRO
16	AQ	12	ARG
16	AQ	16	PHE
16	AQ	18	VAL
16	AQ	44	LEU
16	AQ	54	PRO
17	AR	3	ILE
17	AR	6	GLU
17	AR	19	PRO
17	AR	47	LYS
17	AR	49	ASP
18	AS	11	SER
18	AS	15	PRO
18	AS	44	THR
18	AS	61	SER
18	AS	63	GLY
19	AT	4	LYS
19	AT	14	LYS
19	AT	34	LYS
19	AT	48	GLU
19	AT	50	LYS
19	AT	97	SER
19	AT	104	LYS
20	AU	21	LYS
20	AU	34	TYR
20	AU	54	ARG
20	AU	59	SER
20	AU	75	ILE
20	AU	87	ARG
21	AV	3	ARG
21	AV	9	VAL
21	AV	12	ASP
21	AV	16	LEU
21	AV	28	LYS
21	AV	29	ARG
21	AV	32	LYS
21	AV	42	PRO
21	AV	64	GLU
21	AV	65	ASN

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Mol	Chain	Res	Type
21	AV	70	LYS
21	AV	71	LEU
22	AW	68	LYS
22	AW	69	GLY
22	AW	74	LYS
22	AW	97	ALA
22	AW	99	LEU
22	AW	103	GLY
22	AW	105	SER
23	AX	6	ARG
23	AX	7	ARG
23	AX	8	THR
23	AX	9	ARG
23	AX	22	ARG
26	BC	22	ILE
26	BC	35	ALA
26	BC	41	VAL
26	BC	52	ARG
26	BC	62	VAL
26	BC	63	SER
26	BC	65	PRO
26	BC	71	GLN
26	BC	72	VAL
26	BC	141	LYS
26	BC	164	ARG
26	BC	167	LYS
26	BC	177	LYS
26	BC	178	ALA
26	BC	217	THR
27	BD	8	PRO
27	BD	10	THR
27	BD	15	PHE
27	BD	17	THR
27	BD	18	VAL
27	BD	25	THR
27	BD	33	LEU
27	BD	35	LYS
27	BD	53	PHE
27	BD	73	VAL
27	BD	91	ARG
27	BD	106	ILE
27	BD	107	ALA

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Mol	Chain	Res	Type
27	BD	108	PRO
27	BD	121	PRO
27	BD	122	ASP
27	BD	123	ALA
27	BD	133	LEU
27	BD	134	ARG
27	BD	138	VAL
27	BD	152	GLY
27	BD	155	LEU
27	BD	158	ALA
27	BD	162	SER
27	BD	178	PRO
27	BD	179	SER
27	BD	204	ILE
27	BD	205	VAL
27	BD	206	LEU
27	BD	209	ALA
27	BD	217	ARG
27	BD	232	PRO
27	BD	233	HIS
27	BD	241	PRO
27	BD	244	ARG
27	BD	247	ALA
27	BD	249	PRO
27	BD	252	TRP
27	BD	264	LYS
27	BD	268	ARG
27	BD	270	ILE
27	BD	272	ALA
28	BE	18	ASP
28	BE	22	PRO
28	BE	28	ALA
28	BE	38	THR
28	BE	54	GLN
28	BE	70	ALA
28	BE	72	VAL
28	BE	123	ALA
28	BE	128	SER
28	BE	133	LYS
28	BE	134	ILE
28	BE	139	GLY
28	BE	145	LYS

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Mol	Chain	Res	Type
28	BE	149	ARG
28	BE	151	TYR
28	BE	157	ALA
28	BE	168	MET
28	BE	180	ASN
28	BE	188	VAL
28	BE	189	PRO
29	BF	5	ALA
29	BF	13	SER
29	BF	14	PRO
29	BF	15	SER
29	BF	23	ASP
29	BF	30	PRO
29	BF	45	ARG
29	BF	57	VAL
29	BF	65	TRP
29	BF	66	PRO
29	BF	68	LYS
29	BF	72	ARG
29	BF	75	HIS
29	BF	81	PRO
29	BF	84	VAL
29	BF	85	GLY
29	BF	89	VAL
29	BF	90	PHE
29	BF	91	GLY
29	BF	129	PHE
29	BF	153	SER
29	BF	158	THR
29	BF	172	TRP
29	BF	177	ALA
30	BG	20	ILE
30	BG	27	ASN
30	BG	30	GLU
30	BG	32	PRO
30	BG	33	ARG
30	BG	36	LYS
30	BG	42	GLY
30	BG	43	LEU
30	BG	45	GLU
30	BG	51	ARG
30	BG	61	ALA

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Mol	Chain	Res	Type
30	BG	66	GLN
30	BG	68	PRO
30	BG	75	LYS
30	BG	76	SER
30	BG	78	SER
30	BG	86	MET
30	BG	111	LEU
30	BG	116	ASP
30	BG	117	PHE
30	BG	119	GLY
30	BG	125	PHE
30	BG	128	ARG
30	BG	131	TYR
30	BG	133	LEU
30	BG	135	LEU
30	BG	140	ILE
30	BG	144	ILE
30	BG	170	ARG
30	BG	172	LEU
30	BG	180	PHE
30	BG	181	ARG
31	BH	6	ARG
31	BH	20	ALA
31	BH	83	TYR
31	BH	103	LEU
31	BH	104	GLU
31	BH	109	PHE
31	BH	136	ILE
31	BH	153	LYS
31	BH	155	SER
31	BH	156	ALA
31	BH	164	TYR
31	BH	168	PRO
31	BH	169	VAL
31	BH	170	ARG
31	BH	175	LYS
32	BK	10	GLU
32	BK	14	ASP
32	BK	22	LYS
32	BK	23	PRO
32	BK	25	TYR
32	BK	27	ARG

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Mol	Chain	Res	Type
32	BK	39	ALA
32	BK	83	ALA
32	BK	102	SER
32	BK	111	PRO
32	BK	112	LYS
32	BK	114	LEU
32	BK	123	LEU
32	BK	132	PRO
32	BK	134	PRO
33	BL	3	LYS
33	BL	17	ALA
33	BL	18	THR
33	BL	34	ILE
33	BL	50	ASP
33	BL	52	ILE
33	BL	61	ALA
33	BL	66	THR
33	BL	67	PHE
33	BL	71	THR
33	BL	74	ALA
33	BL	84	LEU
33	BL	101	TRP
33	BL	113	PRO
34	BM	3	THR
34	BM	4	TYR
34	BM	7	LYS
34	BM	23	LEU
34	BM	35	ARG
34	BM	40	PRO
34	BM	43	THR
34	BM	44	PRO
34	BM	45	ASN
34	BM	46	VAL
34	BM	48	MET
34	BM	50	ASP
34	BM	62	VAL
34	BM	66	LYS
34	BM	76	SER
34	BM	79	PRO
34	BM	83	LYS
34	BM	124	ALA
34	BM	126	PRO

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Mol	Chain	Res	Type
34	BM	127	ASP
34	BM	135	PRO
34	BM	136	GLU
35	BN	3	GLN
35	BN	4	PRO
35	BN	12	ASP
35	BN	17	ARG
35	BN	26	LYS
35	BN	29	ASN
35	BN	30	ALA
35	BN	63	VAL
35	BN	88	ASN
35	BN	90	GLN
35	BN	93	PRO
35	BN	94	ARG
35	BN	101	PRO
35	BN	109	LYS
35	BN	111	PHE
35	BN	119	PRO
36	BO	11	GLY
36	BO	12	ALA
36	BO	15	ARG
36	BO	21	ARG
36	BO	23	PRO
36	BO	29	LYS
36	BO	30	THR
36	BO	42	SER
36	BO	46	LYS
36	BO	56	SER
36	BO	57	THR
36	BO	58	THR
36	BO	63	PRO
36	BO	72	PRO
36	BO	88	LEU
36	BO	96	THR
36	BO	97	PRO
36	BO	102	ARG
36	BO	106	LEU
36	BO	107	LYS
36	BO	110	TYR
36	BO	122	PRO
36	BO	123	LEU

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Mol	Chain	Res	Type
36	BO	126	VAL
36	BO	127	ALA
36	BO	128	HIS
37	BP	11	LYS
37	BP	20	ALA
37	BP	27	VAL
37	BP	29	PHE
37	BP	39	PRO
37	BP	40	ALA
37	BP	66	ILE
37	BP	67	ARG
37	BP	73	PRO
37	BP	77	LYS
37	BP	78	PRO
37	BP	80	GLU
37	BP	81	VAL
37	BP	100	GLY
37	BP	125	LEU
37	BP	127	ILE
37	BP	132	VAL
37	BP	138	ASP
38	BQ	38	VAL
38	BQ	57	ARG
38	BQ	59	ASP
38	BQ	76	VAL
38	BQ	88	ARG
38	BQ	89	ASP
38	BQ	90	ARG
39	BR	5	THR
39	BR	9	ARG
39	BR	14	VAL
39	BR	23	ARG
39	BR	31	SER
39	BR	32	LEU
39	BR	35	ILE
39	BR	48	LEU
39	BR	54	LEU
39	BR	56	LEU
39	BR	61	ASN
39	BR	82	ILE
39	BR	97	ARG
39	BR	102	ALA

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Mol	Chain	Res	Type
40	BS	2	ASN
40	BS	3	ARG
40	BS	5	ALA
40	BS	20	PRO
40	BS	26	ASP
40	BS	39	ARG
40	BS	80	SER
40	BS	100	TYR
40	BS	103	ARG
40	BS	105	LEU
40	BS	112	ARG
40	BS	116	ALA
41	BT	3	ARG
41	BT	4	ALA
41	BT	5	LYS
41	BT	24	TYR
41	BT	31	SER
41	BT	33	ARG
41	BT	53	ARG
41	BT	75	ASN
41	BT	87	GLY
42	BU	10	LYS
42	BU	13	ARG
42	BU	15	GLU
42	BU	19	LYS
42	BU	22	VAL
42	BU	31	ALA
42	BU	50	PRO
42	BU	57	VAL
42	BU	68	LYS
42	BU	69	LYS
42	BU	73	SER
42	BU	82	ARG
42	BU	100	ARG
43	BV	9	TYR
43	BV	11	ARG
43	BV	14	PRO
43	BV	30	GLU
43	BV	42	ARG
43	BV	65	LEU
43	BV	66	GLU
43	BV	74	ALA

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Mol	Chain	Res	Type
43	BV	75	TYR
43	BV	92	ARG
44	BW	6	ASP
44	BW	33	LYS
44	BW	51	VAL
44	BW	63	LYS
44	BW	73	ARG
44	BW	83	VAL
44	BW	85	PRO
44	BW	88	LYS
44	BW	90	GLU
45	BX	15	VAL
45	BX	17	SER
45	BX	24	VAL
45	BX	31	LEU
45	BX	34	LYS
45	BX	40	GLU
45	BX	46	LYS
45	BX	47	LYS
45	BX	53	PRO
45	BX	71	LYS
45	BX	72	VAL
45	BX	77	PRO
45	BX	82	PRO
45	BX	83	THR
45	BX	98	VAL
45	BX	105	ALA
45	BX	106	LEU
46	BY	41	LEU
46	BY	42	VAL
46	BY	54	HIS
46	BY	57	ILE
46	BY	62	PRO
46	BY	94	GLU
46	BY	108	PRO
46	BY	109	ALA
46	BY	129	SER
46	BY	134	PRO
46	BY	146	ILE
46	BY	156	LYS
46	BY	159	PRO
46	BY	161	VAL

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Mol	Chain	Res	Type
46	BY	162	GLU
46	BY	168	GLU
47	BZ	2	ALA
47	BZ	10	THR
47	BZ	18	ALA
47	BZ	29	GLN
47	BZ	55	ARG
47	BZ	71	ASP
47	BZ	84	LEU
48	B1	12	SER
48	B1	13	PRO
48	B1	34	ALA
48	B1	35	SER
48	B1	42	ASN
49	B2	11	SER
49	B2	13	ILE
49	B2	17	LYS
49	B2	29	ARG
49	B2	30	ARG
49	B2	52	HIS
50	B3	6	HIS
50	B3	10	VAL
50	B3	13	ARG
50	B3	14	ILE
50	B3	21	VAL
50	B3	23	GLU
50	B3	26	SER
50	B3	28	LYS
50	B3	29	PRO
50	B3	30	GLU
50	B3	32	TYR
50	B3	39	CYS
50	B3	53	GLU
51	B4	7	PRO
51	B4	10	LYS
51	B4	23	HIS
51	B4	37	LYS
51	B4	38	ALA
51	B4	42	PRO
51	B4	43	HIS
51	B4	58	LEU
52	B5	17	LYS

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Mol	Chain	Res	Type
52	B5	18	ARG
52	B5	20	ASN
52	B5	23	THR
52	B5	24	GLU
52	B5	25	LYS
52	B5	26	ASN
52	B5	27	LYS
52	B5	29	ASN
52	B5	30	THR
52	B5	36	LEU
52	B5	37	ARG
52	B5	38	LYS
52	B5	47	THR
52	B5	49	HIS
52	B5	50	ARG
52	B5	51	GLU
52	B5	52	VAL
52	B5	53	LYS
53	B6	2	LYS
53	B6	10	ARG
54	B7	4	MET
54	B7	8	LYS
54	B7	18	ALA
54	B7	30	ARG
54	B7	34	TRP
54	B7	36	LYS
54	B7	37	SER
54	B7	39	LYS
54	B7	52	LYS
54	B7	53	PRO
54	B7	57	ARG
54	B7	61	LEU
54	B7	63	PRO
55	B8	6	SER
55	B8	7	VAL
55	B8	9	ARG
4	AE	22	LYS
4	AE	27	LYS
4	AE	37	ASN
4	AE	109	SER
4	AE	120	ALA
4	AE	126	GLU

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Mol	Chain	Res	Type
4	AE	147	LYS
4	AE	151	GLY
4	AE	155	LEU
4	AE	160	ASP
4	AE	169	LYS
4	AE	180	LEU
4	AE	183	PRO
4	AE	200	ILE
4	AE	226	ARG
4	AE	236	TYR
5	AF	16	ARG
5	AF	18	TRP
5	AF	26	LYS
5	AF	63	ASN
5	AF	74	GLY
5	AF	196	LEU
5	AF	206	GLU
6	AG	30	LYS
6	AG	85	LYS
6	AG	88	VAL
6	AG	126	ILE
6	AG	138	TYR
6	AG	140	VAL
6	AG	153	ARG
6	AG	159	ARG
6	AG	160	GLN
6	AG	166	LYS
6	AG	168	ARG
6	AG	189	PRO
6	AG	191	ARG
6	AG	200	GLU
7	AH	12	LEU
7	AH	64	ARG
7	AH	75	THR
7	AH	78	HIS
7	AH	85	GLY
7	AH	99	GLY
7	AH	102	ALA
7	AH	115	VAL
7	AH	129	ILE
8	AI	12	PRO
8	AI	26	ILE

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Mol	Chain	Res	Type
8	AI	27	GLN
8	AI	69	GLU
8	AI	72	VAL
9	AJ	4	ARG
9	AJ	55	GLY
9	AJ	80	VAL
9	AJ	93	PRO
9	AJ	112	PRO
9	AJ	130	GLY
9	AJ	138	LYS
9	AJ	153	HIS
10	AK	22	GLU
10	AK	24	THR
10	AK	41	ARG
10	AK	64	LYS
10	AK	65	TYR
10	AK	69	ARG
10	AK	73	ASP
10	AK	74	PRO
10	AK	97	VAL
10	AK	102	ARG
11	AL	23	ASN
11	AL	29	ASN
11	AL	39	GLY
11	AL	52	ALA
11	AL	98	PRO
11	AL	105	ASP
11	AL	117	HIS
11	AL	120	ARG
12	AM	30	SER
12	AM	36	GLY
12	AM	55	LYS
12	AM	78	ASN
12	AM	80	LYS
12	AM	82	ILE
13	AN	14	VAL
13	AN	55	LYS
13	AN	76	GLY
13	AN	93	GLN
14	AO	6	THR
14	AO	7	ILE
14	AO	16	GLU

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Mol	Chain	Res	Type
14	AO	26	ALA
14	AO	108	ALA
14	AO	121	GLY
15	AP	41	PRO
15	AP	59	TYR
16	AQ	5	ALA
16	AQ	17	LYS
16	AQ	25	VAL
16	AQ	27	CYS
16	AQ	29	ARG
16	AQ	31	ARG
16	AQ	34	TYR
16	AQ	55	GLY
17	AR	5	LYS
17	AR	16	ALA
17	AR	29	VAL
17	AR	46	HIS
17	AR	76	GLU
17	AR	88	ARG
18	AS	24	ALA
18	AS	26	ARG
19	AT	3	LYS
19	AT	33	GLY
19	AT	75	ARG
19	AT	98	LEU
20	AU	41	LYS
20	AU	48	GLY
20	AU	52	PRO
20	AU	82	THR
21	AV	6	LYS
21	AV	43	GLU
22	AW	49	ALA
22	AW	59	ALA
22	AW	101	GLY
26	BC	7	TYR
26	BC	20	TYR
26	BC	25	ALA
26	BC	38	ASP
26	BC	39	GLU
26	BC	54	SER
26	BC	61	THR
26	BC	67	GLY

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Mol	Chain	Res	Type
26	BC	73	ARG
26	BC	78	ALA
26	BC	119	VAL
26	BC	176	GLY
27	BD	43	ARG
27	BD	54	ARG
27	BD	58	HIS
27	BD	75	ILE
27	BD	81	ALA
27	BD	109	ASP
27	BD	110	GLY
27	BD	111	LEU
27	BD	125	ILE
27	BD	145	VAL
27	BD	149	PRO
27	BD	160	GLY
27	BD	167	GLY
27	BD	208	LYS
27	BD	219	PRO
27	BD	221	VAL
27	BD	225	ALA
27	BD	237	GLU
27	BD	239	ARG
27	BD	243	GLY
27	BD	248	SER
27	BD	254	THR
27	BD	261	LYS
28	BE	89	ASP
28	BE	92	THR
28	BE	109	LYS
28	BE	111	ARG
28	BE	115	GLY
28	BE	119	ARG
28	BE	122	PHE
28	BE	124	GLY
28	BE	126	PRO
28	BE	137	HIS
28	BE	155	LYS
28	BE	173	VAL
28	BE	179	GLU
28	BE	202	LYS
29	BF	6	VAL

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Mol	Chain	Res	Type
29	BF	53	THR
29	BF	69	HIS
29	BF	83	PHE
29	BF	86	GLY
29	BF	97	TYR
29	BF	100	THR
29	BF	104	LYS
29	BF	126	VAL
29	BF	159	GLY
29	BF	168	ARG
29	BF	169	ASN
29	BF	182	ASN
29	BF	186	ILE
30	BG	7	LEU
30	BG	28	VAL
30	BG	29	TRP
30	BG	44	GLY
30	BG	124	SER
30	BG	126	ASP
30	BG	129	GLY
30	BG	149	VAL
30	BG	151	ALA
31	BH	7	LEU
31	BH	29	PRO
31	BH	42	ARG
31	BH	56	SER
31	BH	67	LEU
31	BH	99	VAL
31	BH	105	LEU
31	BH	111	HIS
31	BH	118	PRO
31	BH	120	GLY
31	BH	127	GLU
31	BH	151	ILE
32	BK	12	LEU
32	BK	15	VAL
32	BK	36	ALA
33	BL	16	LYS
33	BL	86	LYS
34	BM	12	ARG
34	BM	18	ALA
34	BM	19	GLU

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Mol	Chain	Res	Type
34	BM	31	ALA
34	BM	38	HIS
34	BM	42	TRP
34	BM	47	ALA
34	BM	65	LYS
34	BM	81	GLY
34	BM	92	ALA
34	BM	98	VAL
34	BM	109	LYS
35	BN	14	THR
35	BN	28	SER
35	BN	33	ALA
35	BN	49	ARG
35	BN	51	ALA
35	BN	53	LYS
35	BN	64	ARG
35	BN	103	ALA
35	BN	110	GLY
36	BO	7	ARG
36	BO	16	ARG
36	BO	34	GLY
36	BO	44	GLY
36	BO	64	LYS
36	BO	65	ARG
36	BO	81	GLN
36	BO	99	LEU
36	BO	100	LEU
36	BO	101	VAL
36	BO	134	ALA
37	BP	8	LYS
37	BP	9	TYR
37	BP	12	GLN
37	BP	14	ARG
37	BP	26	TYR
37	BP	28	ALA
37	BP	59	ARG
37	BP	88	GLY
37	BP	99	PRO
37	BP	106	VAL
37	BP	107	ALA
37	BP	119	ARG
38	BQ	12	ARG

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Mol	Chain	Res	Type
38	BQ	74	LYS
38	BQ	94	TYR
39	BR	18	ILE
39	BR	30	ARG
39	BR	84	GLN
39	BR	89	ARG
40	BS	16	ARG
40	BS	22	PHE
40	BS	28	VAL
40	BS	45	PHE
40	BS	65	LYS
40	BS	83	ILE
40	BS	104	ASN
40	BS	109	GLU
41	BT	6	THR
41	BT	27	LEU
41	BT	32	PHE
41	BT	47	TYR
41	BT	49	HIS
41	BT	62	ILE
41	BT	110	VAL
42	BU	2	PHE
42	BU	6	LYS
42	BU	32	THR
42	BU	46	VAL
42	BU	53	GLU
42	BU	72	VAL
42	BU	81	TYR
43	BV	12	ILE
43	BV	15	ARG
43	BV	44	ALA
43	BV	58	ALA
43	BV	64	MET
43	BV	67	ASP
44	BW	67	GLY
44	BW	84	ALA
44	BW	89	ILE
45	BX	33	LYS
45	BX	39	VAL
45	BX	42	VAL
45	BX	44	ILE
45	BX	54	LYS

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Mol	Chain	Res	Type
45	BX	66	PRO
45	BX	86	ARG
46	BY	79	ARG
46	BY	82	ARG
46	BY	83	PRO
46	BY	92	SER
47	BZ	5	LYS
47	BZ	25	ARG
47	BZ	56	ASP
47	BZ	67	VAL
47	BZ	73	GLY
47	BZ	74	ARG
48	B1	8	ALA
48	B1	15	GLU
48	B1	39	LEU
49	B2	9	VAL
49	B2	53	LEU
50	B3	3	GLU
50	B3	9	LEU
50	B3	41	PRO
50	B3	50	VAL
50	B3	52	THR
50	B3	55	ARG
50	B3	58	ARG
51	B4	5	PRO
51	B4	9	LYS
51	B4	11	THR
51	B4	14	ALA
51	B4	18	ALA
51	B4	35	GLU
51	B4	45	VAL
51	B4	49	CYS
52	B5	28	ARG
52	B5	46	HIS
53	B6	34	ARG
53	B6	35	ARG
53	B6	39	ARG
53	B6	41	ARG
54	B7	5	LYS
54	B7	32	LEU
55	B8	33	LYS
4	AE	8	LYS

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Mol	Chain	Res	Type
4	AE	25	ASN
4	AE	45	GLN
4	AE	53	ARG
4	AE	91	PRO
4	AE	110	GLN
4	AE	118	LEU
4	AE	121	LEU
4	AE	204	ASN
5	AF	50	ALA
5	AF	73	PRO
5	AF	87	LEU
5	AF	191	THR
6	AG	36	ARG
6	AG	56	VAL
6	AG	107	ARG
7	AH	74	GLY
7	AH	95	ALA
7	AH	104	ALA
7	AH	150	ARG
8	AI	17	SER
8	AI	37	VAL
8	AI	51	PRO
9	AJ	8	GLU
9	AJ	71	PRO
9	AJ	72	ARG
9	AJ	109	ASN
9	AJ	131	LYS
9	AJ	135	VAL
10	AK	21	LYS
10	AK	133	LEU
10	AK	134	ILE
11	AL	47	LEU
11	AL	54	ASP
11	AL	121	ARG
12	AM	37	PRO
12	AM	57	LYS
12	AM	58	ASP
13	AN	37	GLY
13	AN	39	PRO
13	AN	128	ALA
14	AO	42	THR
14	AO	105	TYR

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Mol	Chain	Res	Type
14	AO	110	VAL
15	AP	10	PRO
15	AP	46	LYS
15	AP	65	LYS
15	AP	67	GLU
16	AQ	9	LYS
18	AS	13	HIS
18	AS	54	GLU
18	AS	66	PRO
19	AT	53	LEU
19	AT	89	LEU
20	AU	28	GLU
20	AU	70	ILE
21	AV	73	GLU
21	AV	79	THR
22	AW	16	HIS
22	AW	20	LEU
22	AW	34	LYS
22	AW	71	THR
22	AW	78	ALA
22	AW	84	LEU
26	BC	6	ARG
26	BC	8	ARG
26	BC	66	HIS
26	BC	108	MET
26	BC	140	PRO
26	BC	180	PHE
27	BD	37	LEU
27	BD	48	ARG
27	BD	61	LEU
27	BD	62	TYR
27	BD	118	VAL
27	BD	157	ARG
27	BD	189	CYS
27	BD	199	ALA
27	BD	211	ARG
27	BD	262	ARG
28	BE	44	TYR
28	BE	51	PHE
28	BE	67	PHE
28	BE	68	ALA
28	BE	94	GLU

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Mol	Chain	Res	Type
28	BE	125	GLY
28	BE	147	PRO
28	BE	187	ALA
28	BE	191	PRO
29	BF	21	ALA
29	BF	102	PRO
29	BF	132	VAL
29	BF	133	ASN
29	BF	178	PRO
29	BF	198	ALA
30	BG	16	ARG
30	BG	18	GLU
30	BG	72	ARG
30	BG	96	ARG
30	BG	163	ALA
30	BG	164	GLU
30	BG	167	GLU
31	BH	12	PRO
31	BH	47	GLU
31	BH	74	ASN
31	BH	75	ALA
31	BH	79	VAL
31	BH	149	ARG
32	BK	40	THR
32	BK	117	GLU
33	BL	26	ALA
33	BL	88	ALA
33	BL	112	MET
33	BL	114	ASP
33	BL	118	THR
34	BM	27	ALA
34	BM	28	THR
34	BM	29	LYS
34	BM	58	ASP
34	BM	63	THR
34	BM	114	ARG
35	BN	104	ARG
36	BO	9	ASN
36	BO	39	LYS
36	BO	89	ALA
36	BO	92	GLU
37	BP	22	LYS

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Mol	Chain	Res	Type
37	BP	46	GLN
37	BP	61	GLY
37	BP	84	GLY
37	BP	123	HIS
37	BP	126	PRO
38	BQ	5	LYS
38	BQ	102	GLU
39	BR	4	LEU
39	BR	20	ARG
39	BR	34	HIS
39	BR	43	GLU
39	BR	111	GLU
40	BS	24	PRO
41	BT	77	SER
41	BT	93	LYS
41	BT	107	ALA
42	BU	29	PRO
42	BU	40	LEU
43	BV	2	GLU
43	BV	41	LYS
43	BV	89	ALA
44	BW	15	GLU
44	BW	74	PRO
45	BX	65	ALA
45	BX	74	PRO
45	BX	100	ALA
46	BY	13	GLU
46	BY	46	LYS
46	BY	50	GLN
46	BY	78	LYS
46	BY	80	ARG
46	BY	95	PRO
46	BY	123	ASP
46	BY	153	SER
46	BY	154	ASP
46	BY	155	LEU
46	BY	170	THR
47	BZ	83	PRO
48	B1	17	GLU
48	B1	38	GLN
49	B2	31	LEU
49	B2	39	ASP

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Mol	Chain	Res	Type
50	B3	56	VAL
51	B4	15	ARG
51	B4	17	ASP
52	B5	32	ASN
53	B6	3	ARG
53	B6	14	LYS
53	B6	31	LEU
53	B6	48	LYS
54	B7	7	HIS
54	B7	45	GLY
55	B8	10	ILE
55	B8	11	CYS
4	AE	24	TRP
4	AE	78	GLN
4	AE	158	LEU
4	AE	176	GLU
4	AE	189	ASP
4	AE	193	ASP
4	AE	230	VAL
5	AF	81	GLY
5	AF	91	LEU
5	AF	205	GLY
6	AG	51	PRO
6	AG	55	ALA
6	AG	71	SER
7	AH	11	ILE
7	AH	26	PHE
7	AH	96	PRO
7	AH	117	ASP
8	AI	20	ALA
8	AI	34	GLY
8	AI	73	ASN
8	AI	85	VAL
9	AJ	97	GLN
10	AK	37	ARG
10	AK	44	PHE
10	AK	89	PRO
11	AL	95	LYS
11	AL	100	GLY
11	AL	123	PRO
12	AM	53	PRO
13	AN	26	ASN

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Mol	Chain	Res	Type
13	AN	53	SER
13	AN	92	GLU
13	AN	113	PRO
13	AN	117	ASN
14	AO	29	GLY
14	AO	31	PRO
14	AO	76	ASN
14	AO	106	ASP
15	AP	5	ALA
15	AP	106	ASN
15	AP	123	ALA
16	AQ	15	LYS
17	AR	51	HIS
17	AR	53	HIS
17	AR	62	GLN
17	AR	82	ILE
18	AS	79	VAL
19	AT	12	SER
20	AU	79	LEU
20	AU	80	PRO
20	AU	81	PHE
21	AV	27	GLU
22	AW	76	ALA
22	AW	98	PRO
26	BC	27	HIS
26	BC	36	LYS
26	BC	69	GLY
26	BC	154	ARG
26	BC	226	PRO
27	BD	24	ILE
27	BD	56	GLY
27	BD	245	PRO
27	BD	246	PRO
28	BE	20	ALA
28	BE	52	LEU
28	BE	75	VAL
28	BE	117	MET
28	BE	121	ASN
28	BE	161	GLY
29	BF	67	GLN
29	BF	82	ILE
29	BF	99	TYR

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Mol	Chain	Res	Type
29	BF	136	THR
29	BF	150	GLY
30	BG	134	GLY
30	BG	141	PHE
30	BG	178	PHE
31	BH	36	PRO
31	BH	55	PRO
31	BH	112	PRO
31	BH	138	LYS
31	BH	140	LYS
31	BH	154	PRO
32	BK	33	ARG
32	BK	100	ALA
33	BL	14	ALA
33	BL	89	HIS
34	BM	9	VAL
34	BM	105	GLY
34	BM	125	GLY
35	BN	22	ILE
35	BN	65	THR
35	BN	121	VAL
36	BO	8	PRO
36	BO	66	GLY
36	BO	115	LEU
36	BO	116	GLY
36	BO	131	SER
37	BP	21	THR
38	BQ	4	LEU
38	BQ	22	ARG
38	BQ	91	GLN
39	BR	51	ALA
39	BR	72	ALA
39	BR	74	ALA
39	BR	91	PRO
40	BS	58	ASN
40	BS	99	LEU
40	BS	107	ASP
41	BT	13	LYS
41	BT	23	GLY
41	BT	56	ASP
41	BT	116	ALA
43	BV	63	ASP

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Mol	Chain	Res	Type
44	BW	32	PRO
44	BW	34	ALA
45	BX	92	ASN
46	BY	31	ARG
46	BY	66	SER
46	BY	81	ARG
46	BY	130	PRO
46	BY	141	VAL
46	BY	157	LEU
46	BY	165	VAL
48	B1	21	ARG
48	B1	66	ASN
50	B3	8	LYS
50	B3	54	GLY
52	B5	7	ILE
52	B5	40	CYS
53	B6	11	LYS
53	B6	46	VAL
5	AF	22	TRP
5	AF	66	VAL
5	AF	180	ALA
6	AG	4	TYR
6	AG	67	ILE
6	AG	119	GLN
6	AG	173	TRP
7	AH	27	ARG
7	AH	109	ILE
7	AH	135	THR
7	AH	141	GLN
7	AH	142	LEU
9	AJ	7	ALA
9	AJ	23	VAL
9	AJ	106	GLN
9	AJ	122	HIS
9	AJ	129	GLU
10	AK	11	THR
10	AK	12	ARG
10	AK	27	PRO
12	AM	40	LEU
12	AM	73	ASP
13	AN	42	TRP
13	AN	74	ALA

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Mol	Chain	Res	Type
14	AO	101	VAL
15	AP	9	ILE
15	AP	54	VAL
15	AP	98	VAL
15	AP	120	LYS
19	AT	6	LEU
19	AT	47	PRO
19	AT	68	ARG
19	AT	99	SER
20	AU	51	LEU
21	AV	25	LYS
21	AV	45	VAL
21	AV	68	GLY
22	AW	24	LEU
22	AW	32	ALA
26	BC	16	PRO
26	BC	49	ILE
26	BC	106	GLY
26	BC	159	GLY
26	BC	189	ILE
26	BC	197	GLU
27	BD	70	TRP
27	BD	119	ALA
27	BD	215	LEU
27	BD	231	HIS
27	BD	257	LEU
27	BD	271	ILE
28	BE	32	PRO
28	BE	73	GLU
28	BE	135	HIS
29	BF	50	SER
30	BG	50	ALA
30	BG	88	ILE
30	BG	115	ARG
31	BH	21	PRO
31	BH	41	MET
31	BH	117	PRO
32	BK	7	GLU
32	BK	65	ALA
33	BL	24	GLY
33	BL	51	ALA
34	BM	138	LEU

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Mol	Chain	Res	Type
35	BN	2	ILE
35	BN	66	LYS
35	BN	91	LEU
35	BN	99	PHE
36	BO	47	ASP
36	BO	70	GLN
36	BO	125	VAL
37	BP	115	MET
37	BP	136	ALA
38	BQ	8	ARG
38	BQ	79	LEU
40	BS	4	GLY
40	BS	36	GLU
40	BS	106	SER
40	BS	110	ILE
41	BT	26	GLY
41	BT	34	LYS
41	BT	37	GLU
41	BT	54	LYS
41	BT	90	VAL
42	BU	5	VAL
43	BV	52	GLU
43	BV	80	PRO
44	BW	53	LYS
44	BW	92	LEU
45	BX	21	LYS
45	BX	49	VAL
45	BX	69	ALA
45	BX	85	VAL
46	BY	107	THR
48	B1	36	ILE
50	B3	61	ARG
51	B4	47	PRO
53	B6	6	GLN
53	B6	29	LYS
53	B6	33	ARG
54	B7	14	VAL
54	B7	56	GLU
4	AE	182	ILE
5	AF	43	LEU
5	AF	96	GLY
7	AH	51	VAL

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Mol	Chain	Res	Type
9	AJ	96	GLN
9	AJ	105	VAL
14	AO	47	LYS
15	AP	97	PRO
17	AR	78	TYR
17	AR	87	ILE
20	AU	37	VAL
20	AU	62	GLU
22	AW	88	VAL
23	AX	24	ARG
26	BC	26	ALA
26	BC	37	PHE
26	BC	59	ARG
26	BC	64	LEU
26	BC	133	PRO
26	BC	193	ILE
27	BD	28	GLU
27	BD	29	PRO
27	BD	42	GLY
27	BD	127	VAL
28	BE	53	PRO
29	BF	167	ALA
30	BG	121	ASN
30	BG	132	ASN
31	BH	28	GLY
32	BK	37	VAL
33	BL	21	PRO
34	BM	17	ASP
35	BN	102	VAL
35	BN	117	LEU
36	BO	69	GLY
36	BO	85	LEU
37	BP	98	LYS
37	BP	124	LYS
39	BR	41	ASP
39	BR	69	VAL
40	BS	9	LEU
40	BS	25	GLY
42	BU	90	PRO
43	BV	87	PRO
44	BW	8	ILE
45	BX	45	VAL

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Mol	Chain	Res	Type
45	BX	51	VAL
46	BY	12	GLY
47	BZ	21	LEU
48	B1	14	VAL
49	B2	18	ASP
49	B2	54	VAL
55	B8	29	ASN
7	AH	97	GLY
10	AK	79	VAL
11	AL	22	GLY
18	AS	36	ILE
18	AS	46	PRO
19	AT	5	VAL
20	AU	57	GLY
27	BD	196	VAL
28	BE	165	VAL
29	BF	4	VAL
29	BF	64	ILE
29	BF	183	VAL
31	BH	82	GLY
31	BH	173	PRO
33	BL	20	ALA
33	BL	31	GLY
33	BL	135	GLY
37	BP	24	GLY
37	BP	30	GLY
40	BS	72	VAL
40	BS	102	ILE
44	BW	24	GLY
48	B1	45	ILE
54	B7	2	PRO
7	AH	70	PRO
11	AL	28	VAL
11	AL	57	GLY
15	AP	15	VAL
16	AQ	13	THR
21	AV	11	VAL
21	AV	72	GLY
26	BC	181	PRO
29	BF	134	GLY
40	BS	70	VAL
42	BU	16	PRO

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Mol	Chain	Res	Type
42	BU	52	VAL
46	BY	158	PRO
55	B8	21	GLY
4	AE	26	PRO
5	AF	39	ILE
6	AG	148	VAL
9	AJ	50	ILE
10	AK	80	ILE
13	AN	40	ILE
22	AW	100	ILE
26	BC	51	PRO
26	BC	90	GLY
26	BC	130	ILE
27	BD	79	VAL
27	BD	98	VAL
28	BE	56	PRO
31	BH	125	VAL
33	BL	83	GLY
34	BM	55	VAL
37	BP	42	ILE
38	BQ	106	GLY
44	BW	7	VAL
45	BX	27	VAL
5	AF	108	ASN
5	AF	114	PRO
9	AJ	81	GLY
13	AN	121	PRO
22	AW	41	ILE
27	BD	76	PRO
28	BE	153	GLY
31	BH	78	GLY
37	BP	62	GLY
41	BT	105	VAL
42	BU	89	GLN
46	BY	58	VAL
46	BY	139	VAL
50	B3	4	GLY
54	B7	41	ILE
5	AF	109	PRO
6	AG	128	VAL
14	AO	103	GLY
16	AQ	14	PRO

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Mol	Chain	Res	Type
16	AQ	56	VAL
27	BD	148	GLU
30	BG	37	VAL
35	BN	57	VAL
39	BR	70	GLY
43	BV	86	LEU
50	B3	5	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	AE	202/220 (92%)	142 (70%)	60 (30%)	0	3
5	AF	160/188 (85%)	122 (76%)	38 (24%)	1	7
6	AG	180/181 (99%)	130 (72%)	50 (28%)	0	4
7	AH	115/123 (94%)	70 (61%)	45 (39%)	0	0
8	AI	90/90 (100%)	59 (66%)	31 (34%)	0	2
9	AJ	126/127 (99%)	97 (77%)	29 (23%)	1	8
10	AK	119/119 (100%)	76 (64%)	43 (36%)	0	1
11	AL	98/99 (99%)	74 (76%)	24 (24%)	1	7
12	AM	88/92 (96%)	61 (69%)	27 (31%)	0	3
13	AN	90/99 (91%)	70 (78%)	20 (22%)	1	10
14	AO	104/109 (95%)	79 (76%)	25 (24%)	1	7
15	AP	100/101 (99%)	73 (73%)	27 (27%)	0	5
16	AQ	49/50 (98%)	36 (74%)	13 (26%)	0	5
17	AR	79/80 (99%)	56 (71%)	23 (29%)	0	3
18	AS	72/74 (97%)	45 (62%)	27 (38%)	0	0
19	AT	96/97 (99%)	69 (72%)	27 (28%)	0	4
20	AU	64/77 (83%)	50 (78%)	14 (22%)	1	10
21	AV	71/80 (89%)	57 (80%)	14 (20%)	1	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
22	AW	76/82 (93%)	57 (75%)	19 (25%)	1	6
23	AX	19/22 (86%)	16 (84%)	3 (16%)	3	22
26	BC	180/181 (99%)	145 (81%)	35 (19%)	2	13
27	BD	215/218 (99%)	146 (68%)	69 (32%)	0	3
28	BE	166/166 (100%)	95 (57%)	71 (43%)	0	0
29	BF	164/166 (99%)	106 (65%)	58 (35%)	0	1
30	BG	156/156 (100%)	113 (72%)	43 (28%)	0	4
31	BH	143/148 (97%)	91 (64%)	52 (36%)	0	1
32	BK	124/124 (100%)	88 (71%)	36 (29%)	0	3
33	BL	105/111 (95%)	86 (82%)	19 (18%)	2	16
34	BM	118/119 (99%)	82 (70%)	36 (30%)	0	3
35	BN	100/100 (100%)	60 (60%)	40 (40%)	0	0
36	BO	111/116 (96%)	66 (60%)	45 (40%)	0	0
37	BP	106/111 (96%)	68 (64%)	38 (36%)	0	1
38	BQ	100/101 (99%)	73 (73%)	27 (27%)	0	5
39	BR	87/88 (99%)	61 (70%)	26 (30%)	0	3
40	BS	105/127 (83%)	65 (62%)	40 (38%)	0	0
41	BT	93/94 (99%)	61 (66%)	32 (34%)	0	2
42	BU	82/82 (100%)	55 (67%)	27 (33%)	0	2
43	BV	90/92 (98%)	56 (62%)	34 (38%)	0	0
44	BW	76/78 (97%)	59 (78%)	17 (22%)	1	10
45	BX	91/91 (100%)	71 (78%)	20 (22%)	1	10
46	BY	159/179 (89%)	107 (67%)	52 (33%)	0	2
47	BZ	67/67 (100%)	49 (73%)	18 (27%)	0	5
48	B1	62/62 (100%)	49 (79%)	13 (21%)	1	11
49	B2	51/52 (98%)	37 (72%)	14 (28%)	0	4
50	B3	63/63 (100%)	42 (67%)	21 (33%)	0	2
51	B4	50/52 (96%)	33 (66%)	17 (34%)	0	2
52	B5	48/52 (92%)	32 (67%)	16 (33%)	0	2
53	B6	42/42 (100%)	29 (69%)	13 (31%)	0	3
54	B7	54/55 (98%)	39 (72%)	15 (28%)	0	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	B8	34/34 (100%)	25 (74%)	9 (26%)	0	5
All	All	5040/5237 (96%)	3528 (70%)	1512 (30%)	0	3

All (1512) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	AE	11	LEU
4	AE	12	GLU
4	AE	15	VAL
4	AE	17	PHE
4	AE	19	HIS
4	AE	20	GLU
4	AE	21	ARG
4	AE	23	ARG
4	AE	24	TRP
4	AE	25	ASN
4	AE	28	PHE
4	AE	30	ARG
4	AE	33	TYR
4	AE	36	ARG
4	AE	44	LEU
4	AE	48	MET
4	AE	52	GLU
4	AE	56	ARG
4	AE	57	PHE
4	AE	59	GLU
4	AE	61	LEU
4	AE	64	ARG
4	AE	68	ILE
4	AE	75	LYS
4	AE	80	ILE
4	AE	84	GLU
4	AE	92	TYR
4	AE	96	ARG
4	AE	101	MET
4	AE	102	LEU
4	AE	104	ASN
4	AE	105	PHE
4	AE	111	ARG
4	AE	114	ARG
4	AE	118	LEU
4	AE	122	PHE

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Mol	Chain	Res	Type
4	AE	132	LYS
4	AE	145	LEU
4	AE	148	TYR
4	AE	152	PHE
4	AE	153	ARG
4	AE	154	LEU
4	AE	158	LEU
4	AE	162	ILE
4	AE	169	LYS
4	AE	172	ILE
4	AE	181	PHE
4	AE	187	LEU
4	AE	190	THR
4	AE	193	ASP
4	AE	194	PRO
4	AE	195	ASP
4	AE	196	LEU
4	AE	198	ASP
4	AE	202	PRO
4	AE	204	ASN
4	AE	208	ILE
4	AE	209	ARG
4	AE	212	GLN
4	AE	217	ARG
5	AF	5	ILE
5	AF	10	PHE
5	AF	11	ARG
5	AF	16	ARG
5	AF	29	TYR
5	AF	30	ARG
5	AF	34	LEU
5	AF	35	GLU
5	AF	38	ARG
5	AF	52	LEU
5	AF	59	ARG
5	AF	62	ASP
5	AF	82	GLU
5	AF	85	ARG
5	AF	87	LEU
5	AF	95	THR
5	AF	97	LYS
5	AF	106	VAL

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Mol	Chain	Res	Type
5	AF	107	GLN
5	AF	110	ASN
5	AF	111	LEU
5	AF	128	PHE
5	AF	136	GLN
5	AF	139	GLN
5	AF	142	MET
5	AF	153	VAL
5	AF	162	GLN
5	AF	165	THR
5	AF	176	HIS
5	AF	178	LEU
5	AF	186	PHE
5	AF	188	LEU
5	AF	190	ARG
5	AF	193	TYR
5	AF	196	LEU
5	AF	198	VAL
5	AF	201	TYR
5	AF	204	LEU
6	AG	3	ARG
6	AG	9	CYS
6	AG	13	ARG
6	AG	15	GLU
6	AG	20	TYR
6	AG	25	ARG
6	AG	26	CYS
6	AG	27	TYR
6	AG	29	PRO
6	AG	31	CYS
6	AG	33	MET
6	AG	34	GLU
6	AG	35	ARG
6	AG	47	ARG
6	AG	51	PRO
6	AG	53	ASP
6	AG	58	LEU
6	AG	59	ARG
6	AG	61	LYS
6	AG	62	GLN
6	AG	63	LYS
6	AG	64	LEU

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Mol	Chain	Res	Type
6	AG	68	TYR
6	AG	83	SER
6	AG	101	LEU
6	AG	104	VAL
6	AG	106	TYR
6	AG	114	ARG
6	AG	126	ILE
6	AG	131	ARG
6	AG	138	TYR
6	AG	141	ARG
6	AG	142	PRO
6	AG	146	ILE
6	AG	154	ASN
6	AG	162	LEU
6	AG	165	MET
6	AG	168	ARG
6	AG	175	SER
6	AG	176	LEU
6	AG	177	ASP
6	AG	181	MET
6	AG	182	LYS
6	AG	190	ASP
6	AG	191	ARG
6	AG	193	ASP
6	AG	196	LEU
6	AG	198	VAL
6	AG	202	LEU
6	AG	209	ARG
7	AH	8	GLU
7	AH	10	MET
7	AH	12	LEU
7	AH	13	ILE
7	AH	15	ARG
7	AH	16	THR
7	AH	19	MET
7	AH	20	GLN
7	AH	25	ARG
7	AH	26	PHE
7	AH	27	ARG
7	AH	28	PHE
7	AH	31	LEU
7	AH	41	VAL

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Mol	Chain	Res	Type
7	AH	43	LEU
7	AH	45	PHE
7	AH	53	LEU
7	AH	56	GLN
7	AH	60	TYR
7	AH	63	ARG
7	AH	73	ASN
7	AH	75	THR
7	AH	78	HIS
7	AH	79	GLU
7	AH	80	ILE
7	AH	81	GLU
7	AH	89	ILE
7	AH	90	VAL
7	AH	101	ILE
7	AH	106	PRO
7	AH	109	ILE
7	AH	112	LEU
7	AH	117	ASP
7	AH	119	LEU
7	AH	120	THR
7	AH	121	LYS
7	AH	128	PRO
7	AH	131	ILE
7	AH	133	TYR
7	AH	135	THR
7	AH	141	GLN
7	AH	142	LEU
7	AH	143	ARG
7	AH	150	ARG
7	AH	152	ARG
8	AI	4	TYR
8	AI	5	GLU
8	AI	7	ASN
8	AI	8	ILE
8	AI	10	LEU
8	AI	13	ASN
8	AI	14	LEU
8	AI	27	GLN
8	AI	28	ARG
8	AI	36	ARG
8	AI	38	GLU

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Mol	Chain	Res	Type
8	AI	40	VAL
8	AI	42	GLU
8	AI	48	LEU
8	AI	50	TYR
8	AI	54	LYS
8	AI	55	ASP
8	AI	57	GLN
8	AI	64	GLN
8	AI	67	MET
8	AI	69	GLU
8	AI	73	ASN
8	AI	74	ASP
8	AI	79	LEU
8	AI	80	ARG
8	AI	83	ASP
8	AI	86	ARG
8	AI	88	VAL
8	AI	94	GLN
8	AI	95	GLU
8	AI	98	LEU
9	AJ	5	ARG
9	AJ	6	ARG
9	AJ	10	ARG
9	AJ	12	LEU
9	AJ	14	PRO
9	AJ	16	LEU
9	AJ	18	TYR
9	AJ	28	ASN
9	AJ	33	ASP
9	AJ	36	LYS
9	AJ	52	GLU
9	AJ	56	GLN
9	AJ	72	ARG
9	AJ	76	ARG
9	AJ	77	SER
9	AJ	85	TYR
9	AJ	89	MET
9	AJ	90	GLU
9	AJ	103	TRP
9	AJ	106	GLN
9	AJ	113	GLU
9	AJ	125	MET

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Mol	Chain	Res	Type
9	AJ	129	GLU
9	AJ	136	LYS
9	AJ	139	GLU
9	AJ	143	ARG
9	AJ	146	GLU
9	AJ	149	ARG
9	AJ	155	ARG
10	AK	3	THR
10	AK	4	ASP
10	AK	6	ILE
10	AK	14	ARG
10	AK	18	ARG
10	AK	19	VAL
10	AK	23	SER
10	AK	24	THR
10	AK	25	ASP
10	AK	26	VAL
10	AK	32	LYS
10	AK	33	GLU
10	AK	35	ILE
10	AK	36	LEU
10	AK	37	ARG
10	AK	38	ILE
10	AK	39	LEU
10	AK	41	ARG
10	AK	45	ILE
10	AK	48	TYR
10	AK	49	GLU
10	AK	52	ASP
10	AK	57	PRO
10	AK	58	TYR
10	AK	62	TYR
10	AK	63	LEU
10	AK	65	TYR
10	AK	76	PRO
10	AK	84	ARG
10	AK	92	ARG
10	AK	98	LYS
10	AK	103	VAL
10	AK	104	ARG
10	AK	107	LEU
10	AK	109	ILE

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Mol	Chain	Res	Type
10	AK	111	ILE
10	AK	112	LEU
10	AK	119	LEU
10	AK	122	ARG
10	AK	123	GLU
10	AK	126	LYS
10	AK	135	CYS
10	AK	136	GLU
11	AL	12	GLU
11	AL	17	VAL
11	AL	19	LEU
11	AL	21	PRO
11	AL	23	ASN
11	AL	31	GLN
11	AL	32	ASP
11	AL	33	PHE
11	AL	37	PHE
11	AL	44	VAL
11	AL	48	GLU
11	AL	60	ASP
11	AL	63	ILE
11	AL	75	ASP
11	AL	78	LYS
11	AL	79	LEU
11	AL	91	ASP
11	AL	102	LEU
11	AL	105	ASP
11	AL	110	GLU
11	AL	113	LYS
11	AL	116	LYS
11	AL	117	HIS
11	AL	126	SER
12	AM	3	LYS
12	AM	4	ILE
12	AM	5	ARG
12	AM	8	LEU
12	AM	9	ARG
12	AM	11	PHE
12	AM	14	LYS
12	AM	21	GLN
12	AM	23	ILE
12	AM	33	GLN

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Mol	Chain	Res	Type
12	AM	45	ARG
12	AM	47	PHE
12	AM	58	ASP
12	AM	60	ARG
12	AM	62	HIS
12	AM	63	PHE
12	AM	64	GLU
12	AM	65	LEU
12	AM	70	ARG
12	AM	73	ASP
12	AM	78	ASN
12	AM	79	ARG
12	AM	81	THR
12	AM	85	LEU
12	AM	95	GLU
12	AM	99	LYS
12	AM	100	THR
13	AN	12	ARG
13	AN	13	GLN
13	AN	22	HIS
13	AN	24	SER
13	AN	40	ILE
13	AN	47	VAL
13	AN	50	TYR
13	AN	51	LYS
13	AN	62	GLN
13	AN	67	ASP
13	AN	75	TYR
13	AN	78	GLN
13	AN	80	VAL
13	AN	81	ASP
13	AN	87	THR
13	AN	104	GLN
13	AN	107	SER
13	AN	116	HIS
13	AN	125	PHE
13	AN	126	ARG
14	AO	12	ARG
14	AO	18	VAL
14	AO	32	PHE
14	AO	33	ARG
14	AO	38	THR

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Mol	Chain	Res	Type
14	AO	41	ARG
14	AO	47	LYS
14	AO	48	PRO
14	AO	52	LEU
14	AO	53	ARG
14	AO	60	LEU
14	AO	61	THR
14	AO	64	TYR
14	AO	65	GLU
14	AO	66	VAL
14	AO	75	HIS
14	AO	76	ASN
14	AO	92	ASP
14	AO	93	LEU
14	AO	100	ILE
14	AO	101	VAL
14	AO	102	ARG
14	AO	110	VAL
14	AO	113	ARG
14	AO	126	LYS
15	AP	9	ILE
15	AP	11	ARG
15	AP	16	ASP
15	AP	25	ILE
15	AP	40	ASN
15	AP	47	ASP
15	AP	48	LEU
15	AP	55	ARG
15	AP	61	GLU
15	AP	63	THR
15	AP	64	TRP
15	AP	66	LEU
15	AP	70	LEU
15	AP	73	GLU
15	AP	77	ASN
15	AP	80	ARG
15	AP	81	LEU
15	AP	86	CYS
15	AP	87	TYR
15	AP	88	ARG
15	AP	96	LEU
15	AP	101	GLN

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Mol	Chain	Res	Type
15	AP	108	ARG
15	AP	110	ARG
15	AP	117	VAL
15	AP	121	LYS
15	AP	124	PRO
16	AQ	22	THR
16	AQ	24	CYS
16	AQ	25	VAL
16	AQ	26	ARG
16	AQ	29	ARG
16	AQ	34	TYR
16	AQ	36	PHE
16	AQ	40	CYS
16	AQ	43	CYS
16	AQ	44	LEU
16	AQ	45	ARG
16	AQ	56	VAL
16	AQ	61	TRP
17	AR	3	ILE
17	AR	4	THR
17	AR	5	LYS
17	AR	10	LYS
17	AR	14	GLU
17	AR	19	PRO
17	AR	26	GLU
17	AR	32	LEU
17	AR	33	THR
17	AR	34	LEU
17	AR	36	ILE
17	AR	39	LEU
17	AR	41	GLU
17	AR	42	HIS
17	AR	54	ARG
17	AR	57	LEU
17	AR	59	MET
17	AR	63	ARG
17	AR	64	ARG
17	AR	70	LEU
17	AR	73	GLU
17	AR	77	ARG
17	AR	78	TYR
18	AS	3	LYS

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Mol	Chain	Res	Type
18	AS	4	ILE
18	AS	6	LEU
18	AS	14	ASN
18	AS	15	PRO
18	AS	17	TYR
18	AS	21	VAL
18	AS	22	THR
18	AS	26	ARG
18	AS	27	LYS
18	AS	32	TYR
18	AS	34	GLU
18	AS	36	ILE
18	AS	38	TYR
18	AS	39	TYR
18	AS	40	ASP
18	AS	47	ASP
18	AS	48	TRP
18	AS	54	GLU
18	AS	55	ARG
18	AS	58	TYR
18	AS	62	VAL
18	AS	66	PRO
18	AS	69	THR
18	AS	72	ARG
18	AS	74	LEU
18	AS	80	PHE
19	AT	6	LEU
19	AT	11	VAL
19	AT	20	THR
19	AT	21	VAL
19	AT	27	PHE
19	AT	31	LEU
19	AT	35	VAL
19	AT	36	ILE
19	AT	38	ARG
19	AT	40	LYS
19	AT	45	HIS
19	AT	48	GLU
19	AT	51	TYR
19	AT	55	ASP
19	AT	58	GLU
19	AT	59	ILE

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Mol	Chain	Res	Type
19	AT	60	ILE
19	AT	62	SER
19	AT	65	ILE
19	AT	77	VAL
19	AT	84	LEU
19	AT	86	GLU
19	AT	91	ARG
19	AT	92	ARG
19	AT	93	GLN
19	AT	95	TYR
19	AT	101	ARG
20	AU	22	VAL
20	AU	28	GLU
20	AU	43	PHE
20	AU	49	LYS
20	AU	53	ARG
20	AU	55	ARG
20	AU	62	GLU
20	AU	63	GLN
20	AU	72	ARG
20	AU	74	ARG
20	AU	76	LEU
20	AU	79	LEU
20	AU	81	PHE
20	AU	83	GLU
21	AV	7	LYS
21	AV	12	ASP
21	AV	15	LEU
21	AV	16	LEU
21	AV	17	GLU
21	AV	18	LYS
21	AV	25	LYS
21	AV	29	ARG
21	AV	31	ILE
21	AV	36	ARG
21	AV	41	VAL
21	AV	42	PRO
21	AV	43	GLU
21	AV	61	TYR
22	AW	13	LEU
22	AW	18	GLN
22	AW	19	SER

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Mol	Chain	Res	Type
22	AW	23	ARG
22	AW	25	ARG
22	AW	26	ASN
22	AW	42	GLN
22	AW	45	GLN
22	AW	53	LEU
22	AW	56	MET
22	AW	71	THR
22	AW	73	HIS
22	AW	75	ASN
22	AW	79	ARG
22	AW	83	ARG
22	AW	84	LEU
22	AW	85	MET
22	AW	87	LYS
22	AW	91	LEU
23	AX	8	THR
23	AX	9	ARG
23	AX	10	ARG
26	BC	6	ARG
26	BC	7	TYR
26	BC	15	ASP
26	BC	20	TYR
26	BC	27	HIS
26	BC	37	PHE
26	BC	46	LYS
26	BC	53	ARG
26	BC	54	SER
26	BC	58	VAL
26	BC	59	ARG
26	BC	77	ILE
26	BC	81	GLU
26	BC	85	GLU
26	BC	111	ASP
26	BC	113	VAL
26	BC	123	VAL
26	BC	129	ARG
26	BC	136	LEU
26	BC	147	PHE
26	BC	148	ASN
26	BC	153	ILE
26	BC	160	ARG

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Mol	Chain	Res	Type
26	BC	161	ILE
26	BC	164	ARG
26	BC	166	ASP
26	BC	177	LYS
26	BC	180	PHE
26	BC	181	PRO
26	BC	185	LEU
26	BC	190	ARG
26	BC	192	PHE
26	BC	202	GLU
26	BC	208	PHE
26	BC	215	THR
27	BD	9	TYR
27	BD	12	SER
27	BD	14	ARG
27	BD	20	ASP
27	BD	21	PHE
27	BD	23	GLU
27	BD	31	LYS
27	BD	33	LEU
27	BD	38	LYS
27	BD	39	LYS
27	BD	46	GLN
27	BD	49	ILE
27	BD	52	ARG
27	BD	53	PHE
27	BD	59	LYS
27	BD	63	ARG
27	BD	64	ILE
27	BD	65	ILE
27	BD	66	ASP
27	BD	70	TRP
27	BD	82	ILE
27	BD	84	TYR
27	BD	87	ASN
27	BD	91	ARG
27	BD	92	ILE
27	BD	94	LEU
27	BD	95	LEU
27	BD	96	HIS
27	BD	97	TYR
27	BD	106	ILE

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Mol	Chain	Res	Type
27	BD	112	GLN
27	BD	113	VAL
27	BD	116	GLN
27	BD	121	PRO
27	BD	126	GLN
27	BD	133	LEU
27	BD	135	PHE
27	BD	140	THR
27	BD	146	GLU
27	BD	147	LEU
27	BD	148	GLU
27	BD	155	LEU
27	BD	171	ASP
27	BD	179	SER
27	BD	181	GLU
27	BD	186	HIS
27	BD	188	GLU
27	BD	202	LYS
27	BD	203	ASN
27	BD	206	LEU
27	BD	208	LYS
27	BD	212	SER
27	BD	218	ARG
27	BD	222	ARG
27	BD	227	ASN
27	BD	228	PRO
27	BD	229	VAL
27	BD	230	ASP
27	BD	232	PRO
27	BD	233	HIS
27	BD	239	ARG
27	BD	249	PRO
27	BD	252	TRP
27	BD	253	GLN
27	BD	254	THR
27	BD	258	LYS
27	BD	263	ARG
27	BD	270	ILE
27	BD	273	ARG
28	BE	2	LYS
28	BE	4	ILE
28	BE	5	LEU

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Mol	Chain	Res	Type
28	BE	8	LYS
28	BE	14	ILE
28	BE	17	ASP
28	BE	19	ARG
28	BE	22	PRO
28	BE	25	VAL
28	BE	27	LEU
28	BE	31	CYS
28	BE	40	GLU
28	BE	41	LYS
28	BE	45	THR
28	BE	49	LEU
28	BE	51	PHE
28	BE	52	LEU
28	BE	53	PRO
28	BE	55	ASN
28	BE	56	PRO
28	BE	57	LYS
28	BE	58	ARG
28	BE	66	HIS
28	BE	67	PHE
28	BE	72	VAL
28	BE	78	LEU
28	BE	79	ARG
28	BE	80	GLU
28	BE	83	ASP
28	BE	90	THR
28	BE	91	VAL
28	BE	92	THR
28	BE	97	LYS
28	BE	101	ARG
28	BE	102	VAL
28	BE	108	SER
28	BE	111	ARG
28	BE	113	PHE
28	BE	116	VAL
28	BE	117	MET
28	BE	118	LYS
28	BE	119	ARG
28	BE	120	TRP
28	BE	121	ASN
28	BE	122	PHE

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Mol	Chain	Res	Type
28	BE	126	PRO
28	BE	127	ASP
28	BE	129	HIS
28	BE	134	ILE
28	BE	135	HIS
28	BE	136	ARG
28	BE	137	HIS
28	BE	143	ASN
28	BE	144	ARG
28	BE	147	PRO
28	BE	149	ARG
28	BE	150	VAL
28	BE	152	LYS
28	BE	154	LYS
28	BE	155	LYS
28	BE	163	GLU
28	BE	170	LEU
28	BE	171	GLU
28	BE	173	VAL
28	BE	176	ILE
28	BE	182	LEU
28	BE	185	LYS
28	BE	197	ILE
28	BE	199	ARG
28	BE	200	GLU
28	BE	202	LYS
29	BF	8	GLN
29	BF	14	PRO
29	BF	17	ARG
29	BF	20	LEU
29	BF	27	GLU
29	BF	29	ASN
29	BF	30	PRO
29	BF	31	HIS
29	BF	33	LEU
29	BF	34	TRP
29	BF	39	TRP
29	BF	40	GLN
29	BF	46	ARG
29	BF	53	THR
29	BF	63	LYS
29	BF	64	ILE

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Mol	Chain	Res	Type
29	BF	67	GLN
29	BF	68	LYS
29	BF	69	HIS
29	BF	74	ARG
29	BF	77	ASP
29	BF	78	ILE
29	BF	82	ILE
29	BF	83	PHE
29	BF	84	VAL
29	BF	90	PHE
29	BF	95	ARG
29	BF	102	PRO
29	BF	105	VAL
29	BF	106	ARG
29	BF	108	LYS
29	BF	112	MET
29	BF	117	ARG
29	BF	119	ARG
29	BF	120	GLU
29	BF	122	LYS
29	BF	127	GLU
29	BF	140	LEU
29	BF	145	GLU
29	BF	156	LEU
29	BF	160	ASN
29	BF	162	LEU
29	BF	168	ARG
29	BF	170	LEU
29	BF	174	VAL
29	BF	175	THR
29	BF	178	PRO
29	BF	181	LEU
29	BF	184	TYR
29	BF	187	VAL
29	BF	192	LEU
29	BF	194	MET
29	BF	196	LEU
29	BF	197	ASP
29	BF	200	GLU
29	BF	202	PHE
29	BF	203	GLN
29	BF	204	ASN

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Mol	Chain	Res	Type
30	BG	8	LYS
30	BG	9	ARG
30	BG	12	TYR
30	BG	14	GLU
30	BG	18	GLU
30	BG	19	LEU
30	BG	20	ILE
30	BG	21	ARG
30	BG	22	ARG
30	BG	25	TYR
30	BG	29	TRP
30	BG	32	PRO
30	BG	33	ARG
30	BG	34	LEU
30	BG	36	LYS
30	BG	39	ILE
30	BG	51	ARG
30	BG	54	GLU
30	BG	55	LYS
30	BG	68	PRO
30	BG	77	ILE
30	BG	79	ASN
30	BG	82	LEU
30	BG	91	ARG
30	BG	94	LEU
30	BG	95	ARG
30	BG	101	ILE
30	BG	102	PHE
30	BG	107	LEU
30	BG	116	ASP
30	BG	118	ARG
30	BG	128	ARG
30	BG	130	ASN
30	BG	133	LEU
30	BG	135	LEU
30	BG	136	ARG
30	BG	147	ASP
30	BG	152	LEU
30	BG	155	MET
30	BG	170	ARG
30	BG	174	GLU
30	BG	178	PHE

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Mol	Chain	Res	Type
30	BG	181	ARG
31	BH	6	ARG
31	BH	7	LEU
31	BH	13	LYS
31	BH	18	GLU
31	BH	24	VAL
31	BH	29	PRO
31	BH	32	GLU
31	BH	35	VAL
31	BH	40	GLU
31	BH	50	VAL
31	BH	51	ARG
31	BH	52	VAL
31	BH	53	GLU
31	BH	54	ARG
31	BH	57	ASP
31	BH	60	ARG
31	BH	62	LYS
31	BH	65	HIS
31	BH	68	THR
31	BH	69	ARG
31	BH	71	LEU
31	BH	72	ILE
31	BH	74	ASN
31	BH	76	VAL
31	BH	77	LYS
31	BH	81	GLU
31	BH	83	TYR
31	BH	85	LYS
31	BH	87	LEU
31	BH	89	ILE
31	BH	90	LYS
31	BH	94	TYR
31	BH	95	ARG
31	BH	98	LEU
31	BH	104	GLU
31	BH	111	HIS
31	BH	115	VAL
31	BH	116	GLU
31	BH	127	GLU
31	BH	132	ARG
31	BH	136	ILE

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Mol	Chain	Res	Type
31	BH	139	GLN
31	BH	151	ILE
31	BH	152	ARG
31	BH	153	LYS
31	BH	157	TYR
31	BH	162	ILE
31	BH	164	TYR
31	BH	167	GLU
31	BH	168	PRO
31	BH	170	ARG
31	BH	172	LYS
32	BK	4	ILE
32	BK	5	LEU
32	BK	11	ASN
32	BK	12	LEU
32	BK	17	GLN
32	BK	20	ASP
32	BK	25	TYR
32	BK	29	TYR
32	BK	33	ARG
32	BK	48	GLU
32	BK	60	GLU
32	BK	61	ARG
32	BK	66	GLU
32	BK	67	ARG
32	BK	69	LYS
32	BK	75	LEU
32	BK	77	LEU
32	BK	79	ILE
32	BK	81	VAL
32	BK	82	ARG
32	BK	91	SER
32	BK	99	GLU
32	BK	101	LEU
32	BK	103	ARG
32	BK	121	LYS
32	BK	125	GLU
32	BK	128	LEU
32	BK	130	TYR
32	BK	131	LYS
32	BK	135	GLU
32	BK	138	ILE

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Mol	Chain	Res	Type
32	BK	139	GLN
32	BK	142	VAL
32	BK	144	VAL
32	BK	145	VAL
32	BK	147	GLN
33	BL	12	LEU
33	BL	29	GLN
33	BL	30	HIS
33	BL	34	ILE
33	BL	35	MET
33	BL	37	PHE
33	BL	41	PHE
33	BL	56	GLU
33	BL	60	TYR
33	BL	62	ASP
33	BL	76	TYR
33	BL	101	TRP
33	BL	106	GLU
33	BL	113	PRO
33	BL	115	LEU
33	BL	116	ASN
33	BL	117	THR
33	BL	120	LEU
33	BL	134	MET
34	BM	6	PRO
34	BM	7	LYS
34	BM	10	GLU
34	BM	12	ARG
34	BM	15	LEU
34	BM	16	ILE
34	BM	17	ASP
34	BM	22	THR
34	BM	25	ARG
34	BM	28	THR
34	BM	32	THR
34	BM	33	LEU
34	BM	35	ARG
34	BM	42	TRP
34	BM	43	THR
34	BM	45	ASN
34	BM	54	VAL
34	BM	55	VAL

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Mol	Chain	Res	Type
34	BM	62	VAL
34	BM	69	GLN
34	BM	72	TYR
34	BM	74	ARG
34	BM	75	TYR
34	BM	78	TYR
34	BM	82	LEU
34	BM	89	LYS
34	BM	91	LEU
34	BM	93	THR
34	BM	101	HIS
34	BM	112	LEU
34	BM	116	LEU
34	BM	123	TYR
34	BM	127	ASP
34	BM	134	ARG
34	BM	136	GLU
34	BM	139	GLU
35	BN	3	GLN
35	BN	6	THR
35	BN	7	TYR
35	BN	8	LEU
35	BN	9	GLU
35	BN	12	ASP
35	BN	13	ASN
35	BN	23	ARG
35	BN	24	VAL
35	BN	25	LEU
35	BN	28	SER
35	BN	32	TYR
35	BN	34	THR
35	BN	35	VAL
35	BN	37	ASP
35	BN	38	VAL
35	BN	39	ILE
35	BN	42	SER
35	BN	43	VAL
35	BN	44	LYS
35	BN	47	ILE
35	BN	52	VAL
35	BN	59	LYS
35	BN	62	VAL

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Mol	Chain	Res	Type
35	BN	67	LYS
35	BN	68	GLU
35	BN	77	ILE
35	BN	82	ASN
35	BN	85	VAL
35	BN	87	ILE
35	BN	88	ASN
35	BN	89	ASN
35	BN	90	GLN
35	BN	92	GLU
35	BN	93	PRO
35	BN	94	ARG
35	BN	97	ARG
35	BN	106	LEU
35	BN	108	GLU
35	BN	111	PHE
36	BO	7	ARG
36	BO	13	ASN
36	BO	14	LYS
36	BO	15	ARG
36	BO	16	ARG
36	BO	17	LYS
36	BO	21	ARG
36	BO	29	LYS
36	BO	32	THR
36	BO	33	ARG
36	BO	40	SER
36	BO	45	LEU
36	BO	46	LYS
36	BO	49	ARG
36	BO	52	GLU
36	BO	55	ARG
36	BO	59	LEU
36	BO	64	LYS
36	BO	65	ARG
36	BO	68	GLN
36	BO	75	ILE
36	BO	79	ARG
36	BO	81	GLN
36	BO	85	LEU
36	BO	88	LEU
36	BO	94	GLU

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Mol	Chain	Res	Type
36	BO	96	THR
36	BO	99	LEU
36	BO	100	LEU
36	BO	105	LEU
36	BO	108	LYS
36	BO	110	TYR
36	BO	111	ARG
36	BO	117	GLU
36	BO	124	LYS
36	BO	128	HIS
36	BO	130	PHE
36	BO	131	SER
36	BO	135	LEU
36	BO	137	LYS
36	BO	138	LEU
36	BO	146	VAL
36	BO	147	LEU
36	BO	148	LEU
36	BO	149	GLU
37	BP	6	ARG
37	BP	9	TYR
37	BP	14	ARG
37	BP	18	LYS
37	BP	25	ASP
37	BP	26	TYR
37	BP	32	TYR
37	BP	34	LEU
37	BP	35	VAL
37	BP	38	GLU
37	BP	41	TRP
37	BP	42	ILE
37	BP	43	THR
37	BP	51	ARG
37	BP	56	ARG
37	BP	60	ARG
37	BP	64	ILE
37	BP	65	PHE
37	BP	74	TYR
37	BP	80	GLU
37	BP	83	MET
37	BP	91	GLU
37	BP	97	VAL

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Mol	Chain	Res	Type
37	BP	98	LYS
37	BP	99	PRO
37	BP	101	ARG
37	BP	105	GLU
37	BP	109	VAL
37	BP	111	GLU
37	BP	112	GLU
37	BP	116	GLU
37	BP	123	HIS
37	BP	126	PRO
37	BP	127	ILE
37	BP	132	VAL
37	BP	133	ARG
37	BP	134	ARG
37	BP	139	GLU
38	BQ	5	LYS
38	BQ	10	LEU
38	BQ	13	HIS
38	BQ	17	ARG
38	BQ	23	ASN
38	BQ	28	LEU
38	BQ	44	LEU
38	BQ	51	LEU
38	BQ	52	ILE
38	BQ	54	LEU
38	BQ	56	LYS
38	BQ	59	ASP
38	BQ	60	LEU
38	BQ	61	HIS
38	BQ	64	ARG
38	BQ	69	ASP
38	BQ	74	LYS
38	BQ	77	ARG
38	BQ	79	LEU
38	BQ	82	GLU
38	BQ	89	ASP
38	BQ	98	LEU
38	BQ	99	LYS
38	BQ	103	ARG
38	BQ	105	ARG
38	BQ	113	LEU
38	BQ	116	LEU

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Mol	Chain	Res	Type
39	BR	3	ARG
39	BR	7	TYR
39	BR	9	ARG
39	BR	10	ARG
39	BR	11	LYS
39	BR	12	PHE
39	BR	15	ARG
39	BR	18	ILE
39	BR	21	THR
39	BR	26	LEU
39	BR	29	PHE
39	BR	67	ARG
39	BR	68	GLN
39	BR	71	ARG
39	BR	73	LEU
39	BR	78	LEU
39	BR	84	GLN
39	BR	85	VAL
39	BR	88	ASP
39	BR	89	ARG
39	BR	91	PRO
39	BR	94	TYR
39	BR	97	ARG
39	BR	98	VAL
39	BR	103	GLU
39	BR	106	ARG
40	BS	1	MET
40	BS	3	ARG
40	BS	6	LEU
40	BS	10	VAL
40	BS	11	GLU
40	BS	13	ARG
40	BS	14	TYR
40	BS	20	PRO
40	BS	29	ARG
40	BS	30	VAL
40	BS	32	TYR
40	BS	34	VAL
40	BS	43	GLN
40	BS	44	ASP
40	BS	45	PHE
40	BS	46	GLU

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Mol	Chain	Res	Type
40	BS	50	ILE
40	BS	53	ARG
40	BS	55	ASN
40	BS	58	ASN
40	BS	62	THR
40	BS	64	ARG
40	BS	66	VAL
40	BS	70	VAL
40	BS	75	ILE
40	BS	79	HIS
40	BS	82	LEU
40	BS	83	ILE
40	BS	85	LYS
40	BS	90	GLN
40	BS	93	ARG
40	BS	95	ARG
40	BS	101	PHE
40	BS	103	ARG
40	BS	108	ARG
40	BS	109	GLU
40	BS	111	ARG
40	BS	112	ARG
40	BS	113	LYS
40	BS	114	LEU
41	BT	6	THR
41	BT	8	VAL
41	BT	11	ARG
41	BT	15	LYS
41	BT	16	LYS
41	BT	18	LEU
41	BT	19	LYS
41	BT	24	TYR
41	BT	25	TRP
41	BT	32	PHE
41	BT	38	THR
41	BT	39	LEU
41	BT	40	PHE
41	BT	45	TYR
41	BT	47	TYR
41	BT	50	ARG
41	BT	52	ARG
41	BT	53	ARG

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Mol	Chain	Res	Type
41	BT	54	LYS
41	BT	55	ARG
41	BT	58	ARG
41	BT	59	ARG
41	BT	62	ILE
41	BT	63	VAL
41	BT	74	LEU
41	BT	76	TYR
41	BT	77	SER
41	BT	81	HIS
41	BT	88	ILE
41	BT	93	LYS
41	BT	102	GLU
41	BT	106	PHE
42	BU	4	ILE
42	BU	7	THR
42	BU	13	ARG
42	BU	15	GLU
42	BU	18	LEU
42	BU	20	LEU
42	BU	34	GLU
42	BU	35	LEU
42	BU	38	LEU
42	BU	43	GLU
42	BU	45	THR
42	BU	47	VAL
42	BU	52	VAL
42	BU	62	LEU
42	BU	64	HIS
42	BU	71	LEU
42	BU	73	SER
42	BU	74	LYS
42	BU	78	LYS
42	BU	82	ARG
42	BU	83	ARG
42	BU	84	LYS
42	BU	88	ARG
42	BU	93	GLU
42	BU	95	LEU
42	BU	97	LYS
42	BU	100	ARG
43	BV	1	MET

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Mol	Chain	Res	Type
43	BV	4	LYS
43	BV	8	ARG
43	BV	10	VAL
43	BV	11	ARG
43	BV	12	ILE
43	BV	13	SER
43	BV	16	LYS
43	BV	18	ARG
43	BV	25	ARG
43	BV	28	SER
43	BV	31	GLU
43	BV	33	ARG
43	BV	36	LEU
43	BV	42	ARG
43	BV	45	TYR
43	BV	51	LEU
43	BV	52	GLU
43	BV	53	SER
43	BV	63	ASP
43	BV	67	ASP
43	BV	76	VAL
43	BV	77	ASP
43	BV	78	GLU
43	BV	82	LEU
43	BV	86	LEU
43	BV	88	ARG
43	BV	90	ARG
43	BV	94	ASP
43	BV	95	ILE
43	BV	96	ILE
43	BV	97	LYS
43	BV	98	LYS
43	BV	103	ILE
44	BW	7	VAL
44	BW	9	LEU
44	BW	13	LEU
44	BW	16	LYS
44	BW	23	GLU
44	BW	26	TYR
44	BW	33	LYS
44	BW	36	LYS
44	BW	38	GLU

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Mol	Chain	Res	Type
44	BW	41	ASN
44	BW	50	LYS
44	BW	65	ARG
44	BW	75	ASP
44	BW	78	LYS
44	BW	87	GLN
44	BW	90	GLU
44	BW	92	LEU
45	BX	2	ARG
45	BX	13	VAL
45	BX	14	LEU
45	BX	19	LYS
45	BX	20	TYR
45	BX	23	ARG
45	BX	27	VAL
45	BX	28	LYS
45	BX	35	TYR
45	BX	54	LYS
45	BX	60	PHE
45	BX	64	GLU
45	BX	72	VAL
45	BX	73	ARG
45	BX	75	ILE
45	BX	82	PRO
45	BX	84	ARG
45	BX	89	PHE
45	BX	102	CYS
45	BX	107	ASP
46	BY	1	MET
46	BY	3	TYR
46	BY	9	TYR
46	BY	10	ARG
46	BY	14	LYS
46	BY	18	LEU
46	BY	24	LEU
46	BY	28	MET
46	BY	30	ASN
46	BY	32	HIS
46	BY	35	ARG
46	BY	36	LYS
46	BY	43	GLU
46	BY	44	PHE

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Mol	Chain	Res	Type
46	BY	45	ASP
46	BY	49	ARG
46	BY	55	HIS
46	BY	58	VAL
46	BY	60	GLU
46	BY	63	ASP
46	BY	70	LEU
46	BY	71	VAL
46	BY	76	LEU
46	BY	78	LYS
46	BY	80	ARG
46	BY	83	PRO
46	BY	86	VAL
46	BY	89	PHE
46	BY	95	PRO
46	BY	100	VAL
46	BY	103	ARG
46	BY	104	PHE
46	BY	107	THR
46	BY	108	PRO
46	BY	112	ARG
46	BY	116	VAL
46	BY	117	LEU
46	BY	118	GLN
46	BY	119	GLU
46	BY	120	ILE
46	BY	126	VAL
46	BY	129	SER
46	BY	130	PRO
46	BY	140	ASP
46	BY	151	HIS
46	BY	156	LYS
46	BY	159	PRO
46	BY	162	GLU
46	BY	163	LEU
46	BY	168	GLU
46	BY	170	THR
46	BY	171	ILE
47	BZ	10	THR
47	BZ	11	ARG
47	BZ	14	ARG
47	BZ	17	GLN

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Mol	Chain	Res	Type
47	BZ	21	LEU
47	BZ	26	TYR
47	BZ	31	VAL
47	BZ	37	LEU
47	BZ	46	LYS
47	BZ	55	ARG
47	BZ	64	ASP
47	BZ	66	VAL
47	BZ	68	GLU
47	BZ	71	ASP
47	BZ	72	ARG
47	BZ	74	ARG
47	BZ	75	LEU
47	BZ	79	VAL
48	B1	2	ARG
48	B1	3	LYS
48	B1	4	GLN
48	B1	7	GLU
48	B1	19	LEU
48	B1	30	LEU
48	B1	36	ILE
48	B1	45	ILE
48	B1	47	ASP
48	B1	58	VAL
48	B1	59	LEU
48	B1	65	GLN
48	B1	66	ASN
49	B2	3	ARG
49	B2	5	LYS
49	B2	7	LYS
49	B2	15	TYR
49	B2	26	LEU
49	B2	28	LEU
49	B2	30	ARG
49	B2	31	LEU
49	B2	32	GLN
49	B2	39	ASP
49	B2	41	PRO
49	B2	54	VAL
49	B2	55	ARG
49	B2	56	VAL
50	B3	1	MET

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Mol	Chain	Res	Type
50	B3	3	GLU
50	B3	5	ILE
50	B3	9	LEU
50	B3	14	ILE
50	B3	16	CYS
50	B3	18	CYS
50	B3	24	THR
50	B3	25	TYR
50	B3	28	LYS
50	B3	31	ILE
50	B3	39	CYS
50	B3	43	TYR
50	B3	47	GLN
50	B3	48	ARG
50	B3	49	PHE
50	B3	51	ASP
50	B3	53	GLU
50	B3	59	PHE
50	B3	60	GLN
50	B3	68	ARG
51	B4	4	HIS
51	B4	5	PRO
51	B4	9	LYS
51	B4	10	LYS
51	B4	16	ARG
51	B4	17	ASP
51	B4	21	SER
51	B4	25	LEU
51	B4	27	PRO
51	B4	33	CYS
51	B4	39	MET
51	B4	43	HIS
51	B4	46	CYS
51	B4	49	CYS
51	B4	51	TYR
51	B4	55	ARG
51	B4	58	LEU
52	B5	7	ILE
52	B5	9	LEU
52	B5	13	CYS
52	B5	14	THR
52	B5	18	ARG

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Mol	Chain	Res	Type
52	B5	19	ARG
52	B5	21	TYR
52	B5	23	THR
52	B5	27	LYS
52	B5	29	ASN
52	B5	32	ASN
52	B5	33	LYS
52	B5	38	LYS
52	B5	42	TRP
52	B5	51	GLU
52	B5	54	ILE
53	B6	1	MET
53	B6	3	ARG
53	B6	5	TRP
53	B6	6	GLN
53	B6	8	ASN
53	B6	19	ARG
53	B6	21	ARG
53	B6	22	MET
53	B6	24	THR
53	B6	34	ARG
53	B6	41	ARG
53	B6	42	LEU
53	B6	46	VAL
54	B7	4	MET
54	B7	11	LYS
54	B7	14	VAL
54	B7	16	ILE
54	B7	33	ASN
54	B7	40	GLU
54	B7	42	ARG
54	B7	43	GLN
54	B7	44	LYS
54	B7	46	ARG
54	B7	48	PHE
54	B7	50	LEU
54	B7	52	LYS
54	B7	61	LEU
54	B7	64	TYR
55	B8	3	VAL
55	B8	10	ILE
55	B8	13	LYS

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Mol	Chain	Res	Type
55	B8	18	ARG
55	B8	19	ARG
55	B8	20	HIS
55	B8	23	VAL
55	B8	27	CYS
55	B8	35	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (190) such sidechains are listed below:

Mol	Chain	Res	Type
4	AE	25	ASN
4	AE	37	ASN
4	AE	40	HIS
4	AE	78	GLN
4	AE	94	ASN
4	AE	146	GLN
4	AE	204	ASN
4	AE	212	GLN
4	AE	224	GLN
4	AE	240	GLN
5	AF	28	GLN
5	AF	108	ASN
5	AF	136	GLN
5	AF	139	GLN
5	AF	170	GLN
6	AG	62	GLN
6	AG	77	ASN
6	AG	119	GLN
6	AG	154	ASN
6	AG	161	ASN
6	AG	201	GLN
7	AH	20	GLN
7	AH	56	GLN
7	AH	65	ASN
7	AH	72	GLN
7	AH	73	ASN
8	AI	7	ASN
8	AI	13	ASN
8	AI	18	GLN
8	AI	32	ASN
8	AI	57	GLN
8	AI	64	GLN

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Mol	Chain	Res	Type
8	AI	94	GLN
9	AJ	11	GLN
9	AJ	56	GLN
9	AJ	68	ASN
9	AJ	86	GLN
9	AJ	96	GLN
9	AJ	97	GLN
9	AJ	106	GLN
9	AJ	109	ASN
9	AJ	110	GLN
9	AJ	153	HIS
10	AK	15	ASN
10	AK	81	HIS
11	AL	3	GLN
11	AL	23	ASN
11	AL	58	HIS
11	AL	73	GLN
11	AL	87	GLN
11	AL	89	ASN
11	AL	117	HIS
11	AL	124	GLN
12	AM	56	HIS
12	AM	68	HIS
12	AM	76	ASN
12	AM	78	ASN
13	AN	26	ASN
13	AN	38	ASN
13	AN	78	GLN
13	AN	104	GLN
13	AN	117	ASN
14	AO	9	GLN
14	AO	49	ASN
14	AO	99	HIS
15	AP	12	ASN
15	AP	92	HIS
17	AR	9	GLN
17	AR	13	GLN
17	AR	37	ASN
17	AR	42	HIS
17	AR	46	HIS
17	AR	62	GLN
18	AS	16	HIS

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Mol	Chain	Res	Type
18	AS	82	GLN
19	AT	16	GLN
19	AT	93	GLN
21	AV	14	HIS
21	AV	23	ASN
21	AV	56	GLN
22	AW	26	ASN
22	AW	42	GLN
22	AW	75	ASN
26	BC	27	HIS
26	BC	44	HIS
26	BC	56	GLN
26	BC	57	ASN
26	BC	172	HIS
26	BC	225	ASN
27	BD	45	ASN
27	BD	87	ASN
27	BD	115	GLN
27	BD	126	GLN
27	BD	129	ASN
27	BD	201	HIS
28	BE	48	GLN
28	BE	54	GLN
28	BE	55	ASN
28	BE	85	ASN
28	BE	121	ASN
28	BE	169	ASN
28	BE	180	ASN
28	BE	192	ASN
29	BF	29	ASN
29	BF	67	GLN
29	BF	133	ASN
29	BF	169	ASN
30	BG	26	GLN
30	BG	121	ASN
30	BG	130	ASN
30	BG	132	ASN
31	BH	111	HIS
32	BK	28	ASN
32	BK	43	ASN
32	BK	104	GLN
32	BK	105	HIS

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Mol	Chain	Res	Type
32	BK	133	HIS
33	BL	11	GLN
33	BL	30	HIS
33	BL	42	ASN
33	BL	47	ASN
33	BL	89	HIS
33	BL	103	GLN
33	BL	116	ASN
34	BM	94	HIS
35	BN	5	GLN
35	BN	82	ASN
35	BN	88	ASN
35	BN	89	ASN
35	BN	90	GLN
36	BO	13	ASN
36	BO	68	GLN
36	BO	128	HIS
37	BP	12	GLN
37	BP	13	GLN
37	BP	89	ASN
37	BP	113	GLN
38	BQ	13	HIS
38	BQ	31	HIS
38	BQ	71	GLN
38	BQ	91	GLN
39	BR	38	GLN
40	BS	38	ASN
40	BS	55	ASN
40	BS	84	GLN
40	BS	104	ASN
41	BT	44	ASN
41	BT	49	HIS
41	BT	71	GLN
41	BT	94	ASN
41	BT	117	GLN
42	BU	11	GLN
42	BU	80	GLN
42	BU	89	GLN
43	BV	34	ASN
43	BV	40	ASN
43	BV	57	ASN
43	BV	60	ASN

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Mol	Chain	Res	Type
43	BV	61	ASN
43	BV	102	HIS
44	BW	31	HIS
44	BW	41	ASN
44	BW	82	GLN
44	BW	87	GLN
46	BY	34	ASN
46	BY	75	ASN
46	BY	118	GLN
46	BY	151	HIS
47	BZ	12	ASN
47	BZ	17	GLN
47	BZ	35	ASN
48	B1	41	GLN
48	B1	42	ASN
48	B1	51	GLN
48	B1	65	GLN
50	B3	20	ASN
50	B3	46	GLN
50	B3	47	GLN
51	B4	4	HIS
51	B4	22	HIS
51	B4	43	HIS
52	B5	20	ASN
52	B5	29	ASN
52	B5	32	ASN
53	B6	6	GLN
54	B7	7	HIS
54	B7	31	HIS
54	B7	33	ASN
54	B7	35	GLN
54	B7	43	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1515/1522 (99%)	430 (28%)	157 (10%)
2	AC	75/77 (97%)	29 (38%)	6 (8%)
24	BA	2888/2916 (99%)	1218 (42%)	265 (9%)
25	BB	122/123 (99%)	49 (40%)	4 (3%)
3	AD	75/76 (98%)	27 (36%)	4 (5%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
All	All	4675/4714 (99%)	1753 (37%)	436 (9%)

All (1753) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	13	U
1	AA	14	U
1	AA	19	C
1	AA	30	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	52	G
1	AA	54	C
1	AA	61	G
1	AA	62	U
1	AA	64	G
1	AA	65	U
1	AA	66	G
1	AA	78	G
1	AA	81	G
1	AA	82	U
1	AA	87	A
1	AA	89	U
1	AA	101	A
1	AA	109	A
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	124	G
1	AA	130	A
1	AA	131	C
1	AA	133	U
1	AA	182	U

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Mol	Chain	Res	Type
1	AA	188	U
1	AA	189	U
1	AA	191(A)	G
1	AA	193	C
1	AA	195	A
1	AA	196	A
1	AA	197	A
1	AA	198	G
1	AA	209	U
1	AA	210	U
1	AA	216	G
1	AA	236	G
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	253	U
1	AA	259	G
1	AA	260	G
1	AA	264	U
1	AA	265	G
1	AA	266	G
1	AA	267	C
1	AA	275	G
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	282	A
1	AA	289	G
1	AA	293	G
1	AA	306	G
1	AA	308	C
1	AA	309	G
1	AA	315	A
1	AA	316	G
1	AA	324	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	345	C

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Mol	Chain	Res	Type
1	AA	346	G
1	AA	348	G
1	AA	349	A
1	AA	352	C
1	AA	353	A
1	AA	355	C
1	AA	356	A
1	AA	367	U
1	AA	368	U
1	AA	372	C
1	AA	373	A
1	AA	382	A
1	AA	383	A
1	AA	384	G
1	AA	388	G
1	AA	389	A
1	AA	390	C
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	427	U
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	439	A
1	AA	451	A
1	AA	452	A
1	AA	454	C
1	AA	455	C
1	AA	465	A
1	AA	466	C
1	AA	467	G
1	AA	474	G
1	AA	481	G
1	AA	482	A
1	AA	483	C
1	AA	484	G
1	AA	485	G
1	AA	486	U

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Mol	Chain	Res	Type
1	AA	487	A
1	AA	494	U
1	AA	495	A
1	AA	496	A
1	AA	497	U
1	AA	500	G
1	AA	505	G
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	517	G
1	AA	518	C
1	AA	519	C
1	AA	520	A
1	AA	521	G
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	535	A
1	AA	536	C
1	AA	540	G
1	AA	545	C
1	AA	548	G
1	AA	553	A
1	AA	554	C
1	AA	555	C
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	563	A
1	AA	566	G
1	AA	567	G
1	AA	571	U
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	589	C
1	AA	590	C

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Mol	Chain	Res	Type
1	AA	591	U
1	AA	595	G
1	AA	596	C
1	AA	598	U
1	AA	607	A
1	AA	609	A
1	AA	623	C
1	AA	642	A
1	AA	653	A
1	AA	665	A
1	AA	666	G
1	AA	672	U
1	AA	673	G
1	AA	679	C
1	AA	687	A
1	AA	688	G
1	AA	691	G
1	AA	693	G
1	AA	702	A
1	AA	703	G
1	AA	704	A
1	AA	718	G
1	AA	719	C
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	724	G
1	AA	731	G
1	AA	752	G
1	AA	753	A
1	AA	754	C
1	AA	755	G
1	AA	760	G
1	AA	763	G
1	AA	764	C
1	AA	766	A
1	AA	776	G
1	AA	777	A
1	AA	781	A
1	AA	782	A
1	AA	785	G
1	AA	788	U

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Mol	Chain	Res	Type
1	AA	790	A
1	AA	791	G
1	AA	793	U
1	AA	794	A
1	AA	801	U
1	AA	813	U
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	823	G
1	AA	828	A
1	AA	838	G
1	AA	841	U
1	AA	842	C
1	AA	843	U
1	AA	848	C
1	AA	865	A
1	AA	870	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	874	G
1	AA	877	C
1	AA	884	U
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	891	U
1	AA	902	G
1	AA	906	G
1	AA	913	A
1	AA	914	A
1	AA	919	A
1	AA	927	G
1	AA	932	C
1	AA	934	C
1	AA	935	A
1	AA	945	G

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Mol	Chain	Res	Type
1	AA	946	A
1	AA	950	U
1	AA	956	U
1	AA	958	A
1	AA	960	U
1	AA	961	U
1	AA	965	A
1	AA	966	G
1	AA	967	C
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	980	C
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	997	U
1	AA	1002	G
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1006	C
1	AA	1023	G
1	AA	1024	G
1	AA	1026	G
1	AA	1027	C
1	AA	1029	G
1	AA	1048	G
1	AA	1050	G
1	AA	1054	C
1	AA	1056	U
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G

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Mol	Chain	Res	Type
1	AA	1080	A
1	AA	1081	G
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1096	C
1	AA	1099	G
1	AA	1100	C
1	AA	1101	A
1	AA	1102	A
1	AA	1103	C
1	AA	1107	C
1	AA	1123	A
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1135	U
1	AA	1136	U
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1146	A
1	AA	1148	U
1	AA	1151	A
1	AA	1152	A
1	AA	1158	C
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1177	G
1	AA	1182	G
1	AA	1183	A
1	AA	1184	G
1	AA	1185	G
1	AA	1188	A
1	AA	1189	C
1	AA	1190	G
1	AA	1191	A
1	AA	1196	U

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Mol	Chain	Res	Type
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1211	U
1	AA	1212	U
1	AA	1213	A
1	AA	1215	G
1	AA	1220	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1258	G
1	AA	1269	A
1	AA	1270	C
1	AA	1271	G
1	AA	1278	U
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1289	A
1	AA	1292	U
1	AA	1296	C
1	AA	1297	C
1	AA	1298	C
1	AA	1299	A
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1317	C
1	AA	1319	A
1	AA	1320	C

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Mol	Chain	Res	Type
1	AA	1321	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1333	A
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1348	U
1	AA	1354	C
1	AA	1362(A)	C
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1378	C
1	AA	1379	G
1	AA	1381	U
1	AA	1395	C
1	AA	1397	C
1	AA	1398	A
1	AA	1400	C
1	AA	1401	G
1	AA	1404	C
1	AA	1419	G
1	AA	1431	C
1	AA	1435	G
1	AA	1437	C
1	AA	1440	C
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1449	C
1	AA	1450	U
1	AA	1454	G
1	AA	1467	G
1	AA	1468	A
1	AA	1469	G
1	AA	1484	C
1	AA	1490	C
1	AA	1493	A
1	AA	1495	U

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Mol	Chain	Res	Type
1	AA	1498	U
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1518	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
1	AA	1532	U
1	AA	1533	C
1	AA	1534	A
1	AA	1535	C
2	AC	8	U
2	AC	9	G
2	AC	10	G
2	AC	15	G
2	AC	17	C
2	AC	18	G
2	AC	20	U
2	AC	21	A
2	AC	22	G
2	AC	28	C
2	AC	32	C
2	AC	35	A
2	AC	36	U
2	AC	39	C
2	AC	41	C
2	AC	43	A
2	AC	46	G
2	AC	47	U
2	AC	48	C
2	AC	49	G
2	AC	50	U
2	AC	58	A
2	AC	59	A
2	AC	60	U
2	AC	61	C
2	AC	63	G
2	AC	74	C

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Mol	Chain	Res	Type
2	AC	75	C
2	AC	76	A
3	AD	10	G
3	AD	13	C
3	AD	15	G
3	AD	16	U
3	AD	17	U
3	AD	18	G
3	AD	27	U
3	AD	34	G
3	AD	35	A
3	AD	36	A
3	AD	37	A
3	AD	40	C
3	AD	41	G
3	AD	42	C
3	AD	43	A
3	AD	46	G
3	AD	48	C
3	AD	49	G
3	AD	52	G
3	AD	53	G
3	AD	58	A
3	AD	59	U
3	AD	60	U
3	AD	61	C
3	AD	66	C
3	AD	74	C
3	AD	76	A
24	BA	3	U
24	BA	13	A
24	BA	14	A
24	BA	15	G
24	BA	23	G
24	BA	26	G
24	BA	27	G
24	BA	29	U
24	BA	33	U
24	BA	34	C
24	BA	38	A
24	BA	46	C
24	BA	49	A

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Mol	Chain	Res	Type
24	BA	50	U
24	BA	51	G
24	BA	52	A
24	BA	60	G
24	BA	61	G
24	BA	63	U
24	BA	64	A
24	BA	66	C
24	BA	68	G
24	BA	71	A
24	BA	72	U
24	BA	73	A
24	BA	74	A
24	BA	75	G
24	BA	77	C
24	BA	82	G
24	BA	83	G
24	BA	84	A
24	BA	88	G
24	BA	90	U
24	BA	91	A
24	BA	92	G
24	BA	101	G
24	BA	102	G
24	BA	104	U
24	BA	110	G
24	BA	112	U
24	BA	113	G
24	BA	119	A
24	BA	120	U
24	BA	121	G
24	BA	125	G
24	BA	126	A
24	BA	131	G
24	BA	132	G
24	BA	138	G
24	BA	139	G
24	BA	140	A
24	BA	141	A
24	BA	147	U
24	BA	149	A
24	BA	161	U

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Mol	Chain	Res	Type
24	BA	162	U
24	BA	163	U
24	BA	164	U
24	BA	171	G
24	BA	172	C
24	BA	173	G
24	BA	178	G
24	BA	180	G
24	BA	181	A
24	BA	182	A
24	BA	183	C
24	BA	196	A
24	BA	197	A
24	BA	200	U
24	BA	201	C
24	BA	204	A
24	BA	205	G
24	BA	206	U
24	BA	215	G
24	BA	216	A
24	BA	217	G
24	BA	221	A
24	BA	222	A
24	BA	223	A
24	BA	228	A
24	BA	229	A
24	BA	232	G
24	BA	233	A
24	BA	239	U
24	BA	241	A
24	BA	242	G
24	BA	243	U
24	BA	244	A
24	BA	245	G
24	BA	247	G
24	BA	248	G
24	BA	249	C
24	BA	250	G
24	BA	251	A
24	BA	252	G
24	BA	263	C
24	BA	264	C

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Mol	Chain	Res	Type
24	BA	265	A
24	BA	266	G
24	BA	267	C
24	BA	270(A)	A
24	BA	270(B)	A
24	BA	270(C)	C
24	BA	270(D)	C
24	BA	270(E)	G
24	BA	270(F)	U
24	BA	270(K)	C
24	BA	270(M)	U
24	BA	270(N)	G
24	BA	270(Y)	G
24	BA	270(Z)	U
24	BA	271(A)	C
24	BA	271(C)	U
24	BA	271	G
24	BA	273	G
24	BA	273(F)	C
24	BA	275	G
24	BA	276	A
24	BA	277	C
24	BA	278	A
24	BA	279	C
24	BA	280	C
24	BA	281	G
24	BA	282	A
24	BA	283	A
24	BA	284	U
24	BA	286	C
24	BA	287	C
24	BA	288	C
24	BA	289	A
24	BA	290	G
24	BA	293	U
24	BA	295	G
24	BA	296	C
24	BA	300	A
24	BA	302	C
24	BA	309	G
24	BA	310	A
24	BA	311	A

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Mol	Chain	Res	Type
24	BA	312	G
24	BA	313	C
24	BA	316	C
24	BA	322	A
24	BA	323	G
24	BA	324	A
24	BA	325	G
24	BA	329	G
24	BA	330	A
24	BA	332	A
24	BA	333	G
24	BA	339	U
24	BA	341	G
24	BA	342	G
24	BA	345	A
24	BA	347	A
24	BA	348	G
24	BA	349	G
24	BA	350	U
24	BA	351	G
24	BA	352	G
24	BA	354	G
24	BA	356	G
24	BA	359	A
24	BA	360	G
24	BA	361	G
24	BA	362	U
24	BA	363(A)	A
24	BA	363(B)	G
24	BA	363(C)	G
24	BA	363(F)	A
24	BA	364	C
24	BA	366	C
24	BA	370	G
24	BA	372	G
24	BA	373	U
24	BA	374	A
24	BA	386	G
24	BA	388	G
24	BA	390	A
24	BA	391	G
24	BA	395	U

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Mol	Chain	Res	Type
24	BA	396	G
24	BA	397	G
24	BA	401	A
24	BA	404	C
24	BA	405	U
24	BA	406	G
24	BA	411	G
24	BA	412	A
24	BA	422	A
24	BA	423	A
24	BA	424	G
24	BA	427	U
24	BA	428	A
24	BA	429	A
24	BA	435	C
24	BA	436	C
24	BA	443	A
24	BA	444	C
24	BA	445	C
24	BA	446	G
24	BA	448	U
24	BA	449	A
24	BA	451	C
24	BA	452	G
24	BA	453	C
24	BA	454	A
24	BA	455	C
24	BA	456	C
24	BA	457	A
24	BA	471	A
24	BA	479	A
24	BA	480	A
24	BA	481	G
24	BA	482	A
24	BA	483	A
24	BA	484	C
24	BA	492	A
24	BA	497	A
24	BA	503	A
24	BA	504	U
24	BA	505	A
24	BA	506	G

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Mol	Chain	Res	Type
24	BA	508	G
24	BA	509	C
24	BA	513	A
24	BA	519	U
24	BA	527	C
24	BA	528	A
24	BA	529	A
24	BA	530	G
24	BA	531	C
24	BA	532	A
24	BA	533	G
24	BA	541	C
24	BA	549	G
24	BA	556	G
24	BA	559	G
24	BA	560	C
24	BA	562	U
24	BA	563	G
24	BA	564	C
24	BA	565	C
24	BA	566	U
24	BA	567	A
24	BA	568	U
24	BA	569	U
24	BA	571	A
24	BA	572	A
24	BA	573	G
24	BA	574	C
24	BA	575	A
24	BA	579	G
24	BA	586	A
24	BA	588	U
24	BA	593	G
24	BA	599	G
24	BA	603	A
24	BA	605	C
24	BA	607	U
24	BA	613	U
24	BA	614	U
24	BA	615	G
24	BA	616	A
24	BA	617	G

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Mol	Chain	Res	Type
24	BA	618	G
24	BA	620	G
24	BA	621	A
24	BA	622	G
24	BA	624	C
24	BA	625	G
24	BA	627	A
24	BA	629	G
24	BA	630	G
24	BA	631	A
24	BA	634	C
24	BA	637	A
24	BA	638	G
24	BA	640	C
24	BA	641	C
24	BA	643	A
24	BA	644	A
24	BA	645	C
24	BA	646	A
24	BA	650	C
24	BA	653	A
24	BA	654	A
24	BA	655	A
24	BA	656	G
24	BA	657	U
24	BA	661	C
24	BA	665	C
24	BA	666	G
24	BA	668	G
24	BA	669	G
24	BA	670	A
24	BA	671	C
24	BA	686	G
24	BA	687	C
24	BA	688	U
24	BA	690	G
24	BA	697	C
24	BA	704	G
24	BA	705	A
24	BA	706	A
24	BA	713	G
24	BA	714	U

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Mol	Chain	Res	Type
24	BA	715	G
24	BA	716	A
24	BA	718	A
24	BA	728	G
24	BA	729	G
24	BA	730	C
24	BA	731	C
24	BA	734	A
24	BA	735	A
24	BA	739	G
24	BA	740	U
24	BA	741	G
24	BA	746	A
24	BA	747	U
24	BA	748	G
24	BA	749	C
24	BA	750	A
24	BA	751	A
24	BA	752	A
24	BA	759	G
24	BA	760	G
24	BA	762	U
24	BA	763	G
24	BA	764	A
24	BA	772	C
24	BA	774	A
24	BA	775	G
24	BA	776	G
24	BA	777	A
24	BA	779	U
24	BA	781	A
24	BA	782	A
24	BA	783	A
24	BA	784	A
24	BA	785	G
24	BA	786	C
24	BA	787	U
24	BA	789	A
24	BA	790	C
24	BA	791	C
24	BA	792	G
24	BA	793	A

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Mol	Chain	Res	Type
24	BA	794	G
24	BA	799	G
24	BA	800	A
24	BA	801	G
24	BA	802	A
24	BA	805	G
24	BA	806	C
24	BA	811	U
24	BA	812	C
24	BA	816	C
24	BA	819	A
24	BA	821	A
24	BA	822	U
24	BA	823	G
24	BA	824	A
24	BA	827	U
24	BA	830	G
24	BA	831	G
24	BA	833	U
24	BA	842	G
24	BA	844	C
24	BA	846	C
24	BA	847	U
24	BA	858	U
24	BA	859	G
24	BA	860	U
24	BA	861	A
24	BA	863	A
24	BA	865	C
24	BA	866	A
24	BA	867	C
24	BA	881	G
24	BA	886	C
24	BA	888	C
24	BA	889	C
24	BA	890	A
24	BA	892	G
24	BA	896	A
24	BA	897	C
24	BA	899	A
24	BA	902	C
24	BA	906	G

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Mol	Chain	Res	Type
24	BA	907	U
24	BA	909	A
24	BA	910	A
24	BA	914	C
24	BA	918	A
24	BA	919	G
24	BA	920	G
24	BA	929	G
24	BA	930	U
24	BA	931	G
24	BA	932	G
24	BA	933	A
24	BA	936	C
24	BA	937	U
24	BA	941	A
24	BA	943	U
24	BA	944	G
24	BA	945	A
24	BA	946	G
24	BA	957	A
24	BA	958	U
24	BA	959	A
24	BA	961	C
24	BA	962	G
24	BA	967	C
24	BA	969	U
24	BA	973	A
24	BA	975	G
24	BA	976	C
24	BA	980	A
24	BA	982	C
24	BA	983	A
24	BA	988	A
24	BA	989	G
24	BA	990	A
24	BA	991	C
24	BA	995	C
24	BA	996	A
24	BA	997	G
24	BA	1008	C
24	BA	1009	A
24	BA	1011	G

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Mol	Chain	Res	Type
24	BA	1012	U
24	BA	1013	C
24	BA	1021	A
24	BA	1022	G
24	BA	1023	U
24	BA	1024	G
24	BA	1025	G
24	BA	1026	U
24	BA	1027	A
24	BA	1033	U
24	BA	1034	G
24	BA	1038	C
24	BA	1044	G
24	BA	1045	A
24	BA	1046	A
24	BA	1047	G
24	BA	1050	A
24	BA	1056	G
24	BA	1059	G
24	BA	1060	U
24	BA	1061	U
24	BA	1064	C
24	BA	1065	U
24	BA	1066	U
24	BA	1067	A
24	BA	1068	G
24	BA	1070	A
24	BA	1071	G
24	BA	1072	C
24	BA	1073	A
24	BA	1075	C
24	BA	1077	A
24	BA	1079	C
24	BA	1083	U
24	BA	1084	A
24	BA	1085	A
24	BA	1086	A
24	BA	1087	G
24	BA	1088	A
24	BA	1090	U
24	BA	1093	G
24	BA	1097	U

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Mol	Chain	Res	Type
24	BA	1099	G
24	BA	1101	U
24	BA	1104	C
24	BA	1106	G
24	BA	1109	C
24	BA	1110	G
24	BA	1111	A
24	BA	1112	G
24	BA	1113	U
24	BA	1116	C
24	BA	1119	C
24	BA	1126	A
24	BA	1128	A
24	BA	1130	U
24	BA	1131	G
24	BA	1132	A
24	BA	1134	G
24	BA	1135	C
24	BA	1140	C
24	BA	1141	U
24	BA	1142	U
24	BA	1142(A)	A
24	BA	1143	A
24	BA	1154	G
24	BA	1155	A
24	BA	1156	A
24	BA	1157	G
24	BA	1160	G
24	BA	1162	G
24	BA	1171	G
24	BA	1173	G
24	BA	1174	A
24	BA	1175	U
24	BA	1176	G
24	BA	1177	A
24	BA	1179	C
24	BA	1180	C
24	BA	1182	A
24	BA	1183	G
24	BA	1184	G
24	BA	1190	G
24	BA	1197	G

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Mol	Chain	Res	Type
24	BA	1199	U
24	BA	1201	C
24	BA	1203	G
24	BA	1204	A
24	BA	1205	U
24	BA	1206	G
24	BA	1207	C
24	BA	1211	U
24	BA	1212	G
24	BA	1216	G
24	BA	1220	A
24	BA	1221	C
24	BA	1222	C
24	BA	1228	G
24	BA	1236	G
24	BA	1238	G
24	BA	1240	U
24	BA	1241	A
24	BA	1242	A
24	BA	1244	G
24	BA	1247	A
24	BA	1248	G
24	BA	1249	U
24	BA	1251	C
24	BA	1252	G
24	BA	1253	A
24	BA	1254	A
24	BA	1256	G
24	BA	1260	G
24	BA	1261	C
24	BA	1264	G
24	BA	1265	A
24	BA	1266	G
24	BA	1267	U
24	BA	1268	A
24	BA	1270	C
24	BA	1271	G
24	BA	1272	A
24	BA	1273	U
24	BA	1275	A
24	BA	1276	A
24	BA	1286	A

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Mol	Chain	Res	Type
24	BA	1289	C
24	BA	1297	C
24	BA	1300	U
24	BA	1301	A
24	BA	1302	A
24	BA	1303	G
24	BA	1311	G
24	BA	1312	U
24	BA	1316	U
24	BA	1318	C
24	BA	1321	A
24	BA	1322	A
24	BA	1324	G
24	BA	1325	G
24	BA	1326	U
24	BA	1327	C
24	BA	1328	G
24	BA	1329	U
24	BA	1340	U
24	BA	1341	U
24	BA	1342	A
24	BA	1343	G
24	BA	1344	G
24	BA	1345	C
24	BA	1347	G
24	BA	1350	C
24	BA	1352	U
24	BA	1363	C
24	BA	1364	G
24	BA	1365	A
24	BA	1366	A
24	BA	1368	G
24	BA	1379	A
24	BA	1385	G
24	BA	1394	U
24	BA	1395	A
24	BA	1397	U
24	BA	1398	C
24	BA	1402	C
24	BA	1404	C
24	BA	1407	C
24	BA	1416	G

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Mol	Chain	Res	Type
24	BA	1417	C
24	BA	1418	G
24	BA	1419	A
24	BA	1420	U
24	BA	1421	G
24	BA	1424	G
24	BA	1425	G
24	BA	1427	A
24	BA	1428	C
24	BA	1429	G
24	BA	1431	U
24	BA	1444	G
24	BA	1444(A)	A
24	BA	1445	C
24	BA	1448	G
24	BA	1451	C
24	BA	1453	A
24	BA	1455	G
24	BA	1459	G
24	BA	1460	A
24	BA	1461	G
24	BA	1467	C
24	BA	1468	C
24	BA	1471	A
24	BA	1472	A
24	BA	1477	A
24	BA	1478	G
24	BA	1480	G
24	BA	1482	U
24	BA	1483	G
24	BA	1490	A
24	BA	1491	G
24	BA	1492	G
24	BA	1493	C
24	BA	1494	A
24	BA	1495	A
24	BA	1496	A
24	BA	1497	U
24	BA	1498	C
24	BA	1499	C
24	BA	1507	A
24	BA	1508	A

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Mol	Chain	Res	Type
24	BA	1509	C
24	BA	1510	A
24	BA	1512	G
24	BA	1513	C
24	BA	1514	U
24	BA	1515	C
24	BA	1516	U
24	BA	1519	G
24	BA	1520	U
24	BA	1521	G
24	BA	1522	G
24	BA	1526	G
24	BA	1527	G
24	BA	1529	A
24	BA	1530	G
24	BA	1532	C
24	BA	1538	G
24	BA	1540	G
24	BA	1541	U
24	BA	1542	G
24	BA	1544	C
24	BA	1545(A)	A
24	BA	1553	A
24	BA	1554	A
24	BA	1555	G
24	BA	1558	A
24	BA	1559	G
24	BA	1560	G
24	BA	1561	G
24	BA	1566	A
24	BA	1567	A
24	BA	1568	G
24	BA	1569	A
24	BA	1570	A
24	BA	1571	A
24	BA	1572	A
24	BA	1573	G
24	BA	1577	C
24	BA	1580	A
24	BA	1581	G
24	BA	1583	A
24	BA	1585	C

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Mol	Chain	Res	Type
24	BA	1586	A
24	BA	1587	A
24	BA	1591	G
24	BA	1596	A
24	BA	1601	G
24	BA	1602	U
24	BA	1603	A
24	BA	1604	C
24	BA	1607	C
24	BA	1608	A
24	BA	1609	A
24	BA	1610	A
24	BA	1612	C
24	BA	1613	G
24	BA	1614	A
24	BA	1615	C
24	BA	1616	A
24	BA	1617	C
24	BA	1618	A
24	BA	1619	G
24	BA	1622	G
24	BA	1625	C
24	BA	1626	G
24	BA	1627	G
24	BA	1631	A
24	BA	1634	A
24	BA	1635	G
24	BA	1639	U
24	BA	1640	C
24	BA	1641	A
24	BA	1645	G
24	BA	1646	C
24	BA	1647	G
24	BA	1648	C
24	BA	1651	G
24	BA	1652	A
24	BA	1653	G
24	BA	1654	A
24	BA	1655	A
24	BA	1656	C
24	BA	1657	C
24	BA	1663	C

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Mol	Chain	Res	Type
24	BA	1664	A
24	BA	1665	A
24	BA	1667	G
24	BA	1668	A
24	BA	1669	A
24	BA	1670	C
24	BA	1673	U
24	BA	1674	G
24	BA	1675	C
24	BA	1678	G
24	BA	1681	G
24	BA	1682	G
24	BA	1684	C
24	BA	1693	U
24	BA	1694	C
24	BA	1698	A
24	BA	1699	G
24	BA	1700	A
24	BA	1701	A
24	BA	1703	G
24	BA	1706	U
24	BA	1707	G
24	BA	1709	U
24	BA	1710	C
24	BA	1728	G
24	BA	1730	U
24	BA	1732	A
24	BA	1733	G
24	BA	1741	C
24	BA	1743	G
24	BA	1746	G
24	BA	1747	G
24	BA	1755	A
24	BA	1757	U
24	BA	1758	G
24	BA	1759	A
24	BA	1762	A
24	BA	1763	G
24	BA	1764	G
24	BA	1772	G
24	BA	1773	A
24	BA	1775	U

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Mol	Chain	Res	Type
24	BA	1779	U
24	BA	1780	A
24	BA	1781	C
24	BA	1782	C
24	BA	1783	A
24	BA	1784	A
24	BA	1785	A
24	BA	1789	A
24	BA	1790	C
24	BA	1791	A
24	BA	1792	G
24	BA	1798	U
24	BA	1800	C
24	BA	1801	G
24	BA	1802	A
24	BA	1803	A
24	BA	1809	A
24	BA	1810	A
24	BA	1813	G
24	BA	1814	G
24	BA	1815	A
24	BA	1816	G
24	BA	1818	U
24	BA	1819	A
24	BA	1820	U
24	BA	1825	A
24	BA	1826	G
24	BA	1828	G
24	BA	1829	A
24	BA	1834	U
24	BA	1838	C
24	BA	1839	G
24	BA	1846	G
24	BA	1847	A
24	BA	1848	A
24	BA	1857	G
24	BA	1858	G
24	BA	1859	A
24	BA	1878	G
24	BA	1880	C
24	BA	1881	C
24	BA	1883	G

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Mol	Chain	Res	Type
24	BA	1884	A
24	BA	1899	G
24	BA	1901	A
24	BA	1903	G
24	BA	1906	G
24	BA	1911	U
24	BA	1913	A
24	BA	1914	C
24	BA	1915	U
24	BA	1916	A
24	BA	1917	U
24	BA	1918	A
24	BA	1919	A
24	BA	1920	C
24	BA	1923	U
24	BA	1927	A
24	BA	1928	A
24	BA	1929	G
24	BA	1930	G
24	BA	1931	U
24	BA	1934	C
24	BA	1936	A
24	BA	1937	A
24	BA	1938	A
24	BA	1939	U
24	BA	1940	U
24	BA	1941	C
24	BA	1942	C
24	BA	1943	U
24	BA	1944	U
24	BA	1945	G
24	BA	1953	A
24	BA	1954	G
24	BA	1955	U
24	BA	1956	U
24	BA	1962	C
24	BA	1963	U
24	BA	1964	G
24	BA	1965	C
24	BA	1966	A
24	BA	1967	C
24	BA	1968	G

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Mol	Chain	Res	Type
24	BA	1970	A
24	BA	1971	A
24	BA	1972	A
24	BA	1977	A
24	BA	1978	A
24	BA	1980	G
24	BA	1982	C
24	BA	1983	C
24	BA	1992	G
24	BA	1993	U
24	BA	1995	U
24	BA	1996	C
24	BA	1997	G
24	BA	2000	G
24	BA	2015	A
24	BA	2016	U
24	BA	2018	G
24	BA	2020	A
24	BA	2021	C
24	BA	2022	U
24	BA	2023	G
24	BA	2030	A
24	BA	2031	A
24	BA	2032	G
24	BA	2033	A
24	BA	2034	U
24	BA	2035	G
24	BA	2036	C
24	BA	2043	C
24	BA	2044	C
24	BA	2048	G
24	BA	2049	G
24	BA	2050	C
24	BA	2051	A
24	BA	2052	G
24	BA	2055	C
24	BA	2056	G
24	BA	2060	A
24	BA	2061	G
24	BA	2062	A
24	BA	2063	C
24	BA	2064	C

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Mol	Chain	Res	Type
24	BA	2065	C
24	BA	2068	U
24	BA	2069	G
24	BA	2073	C
24	BA	2075	U
24	BA	2076	U
24	BA	2077	A
24	BA	2080	G
24	BA	2087	G
24	BA	2092	U
24	BA	2093	G
24	BA	2103	C
24	BA	2110	G
24	BA	2111	C
24	BA	2112	G
24	BA	2113	U
24	BA	2114	A
24	BA	2116	G
24	BA	2117	A
24	BA	2119	A
24	BA	2121	G
24	BA	2123	G
24	BA	2126	A
24	BA	2127	G
24	BA	2131	G
24	BA	2132	U
24	BA	2133	G
24	BA	2134	A
24	BA	2135	A
24	BA	2136	C
24	BA	2144	U
24	BA	2146	C
24	BA	2148	G
24	BA	2156	G
24	BA	2157	G
24	BA	2158	A
24	BA	2159	G
24	BA	2165	G
24	BA	2172	U
24	BA	2173	A
24	BA	2175	C
24	BA	2179	C

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Mol	Chain	Res	Type
24	BA	2184	G
24	BA	2185	C
24	BA	2195	C
24	BA	2198	A
24	BA	2206	C
24	BA	2208	U
24	BA	2209	C
24	BA	2210	G
24	BA	2211	G
24	BA	2212	A
24	BA	2213	U
24	BA	2215	G
24	BA	2226	C
24	BA	2228	G
24	BA	2238	G
24	BA	2239	G
24	BA	2240	C
24	BA	2245	U
24	BA	2249	U
24	BA	2250	G
24	BA	2251	G
24	BA	2254	C
24	BA	2257	U
24	BA	2259	G
24	BA	2266	A
24	BA	2267	A
24	BA	2268	A
24	BA	2269	A
24	BA	2270	G
24	BA	2271	G
24	BA	2274	A
24	BA	2276	G
24	BA	2277	G
24	BA	2278	A
24	BA	2281	C
24	BA	2283	C
24	BA	2284	C
24	BA	2286	A
24	BA	2287	A
24	BA	2288	A
24	BA	2289	G
24	BA	2290	G

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Mol	Chain	Res	Type
24	BA	2293	C
24	BA	2304	G
24	BA	2306	C
24	BA	2307	G
24	BA	2309	A
24	BA	2310	A
24	BA	2311	A
24	BA	2312	U
24	BA	2316	C
24	BA	2318	G
24	BA	2319	G
24	BA	2320	A
24	BA	2321	G
24	BA	2322	A
24	BA	2333	A
24	BA	2335	A
24	BA	2336	A
24	BA	2337	G
24	BA	2345	G
24	BA	2346	A
24	BA	2347	C
24	BA	2350	C
24	BA	2351	G
24	BA	2353	G
24	BA	2360	A
24	BA	2361	A
24	BA	2362	G
24	BA	2372	G
24	BA	2373	G
24	BA	2378	A
24	BA	2382	G
24	BA	2383	G
24	BA	2384	G
24	BA	2385	C
24	BA	2387	U
24	BA	2389	G
24	BA	2390	U
24	BA	2393	A
24	BA	2402	C
24	BA	2403	C
24	BA	2405	G
24	BA	2406	U

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Mol	Chain	Res	Type
24	BA	2407	G
24	BA	2408	U
24	BA	2414	G
24	BA	2423	U
24	BA	2424	C
24	BA	2425	A
24	BA	2426	A
24	BA	2427	C
24	BA	2428	G
24	BA	2429	G
24	BA	2430	A
24	BA	2431	U
24	BA	2432	A
24	BA	2433	A
24	BA	2434	A
24	BA	2435	A
24	BA	2437	U
24	BA	2439	A
24	BA	2440	C
24	BA	2441	C
24	BA	2442	C
24	BA	2445	G
24	BA	2447	G
24	BA	2448	A
24	BA	2449	U
24	BA	2451	A
24	BA	2460	U
24	BA	2469	A
24	BA	2475	C
24	BA	2476	A
24	BA	2480	C
24	BA	2482	G
24	BA	2490	G
24	BA	2491	U
24	BA	2492	U
24	BA	2493	U
24	BA	2496	C
24	BA	2497	A
24	BA	2498	C
24	BA	2499	C
24	BA	2501	C
24	BA	2503	A

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Mol	Chain	Res	Type
24	BA	2504	U
24	BA	2505	G
24	BA	2506	U
24	BA	2513	G
24	BA	2515	C
24	BA	2518	A
24	BA	2519	U
24	BA	2520	C
24	BA	2522	U
24	BA	2529	G
24	BA	2531	A
24	BA	2532	G
24	BA	2539	C
24	BA	2542	A
24	BA	2543	G
24	BA	2547	U
24	BA	2548	G
24	BA	2549	G
24	BA	2554	U
24	BA	2555	U
24	BA	2556	C
24	BA	2566	A
24	BA	2567	G
24	BA	2572	A
24	BA	2573	C
24	BA	2574	G
24	BA	2575	C
24	BA	2576	G
24	BA	2577	A
24	BA	2578	G
24	BA	2582	G
24	BA	2585	U
24	BA	2586	C
24	BA	2597	G
24	BA	2602	A
24	BA	2603	G
24	BA	2606	C
24	BA	2609	U
24	BA	2610	C
24	BA	2611	U
24	BA	2612	C
24	BA	2613	U

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Mol	Chain	Res	Type
24	BA	2614	A
24	BA	2615	U
24	BA	2625	G
24	BA	2626	C
24	BA	2628	C
24	BA	2629	A
24	BA	2630	G
24	BA	2632	A
24	BA	2633	G
24	BA	2637	U
24	BA	2645	G
24	BA	2646	C
24	BA	2654	A
24	BA	2655	G
24	BA	2656	U
24	BA	2660	A
24	BA	2661	G
24	BA	2663	G
24	BA	2664	G
24	BA	2666	C
24	BA	2672	G
24	BA	2682	U
24	BA	2683	C
24	BA	2688	U
24	BA	2689	U
24	BA	2690	C
24	BA	2691	C
24	BA	2701	C
24	BA	2702	U
24	BA	2703	C
24	BA	2706	G
24	BA	2708	G
24	BA	2711	A
24	BA	2712	U
24	BA	2712(A)	A
24	BA	2713	A
24	BA	2714	G
24	BA	2717	G
24	BA	2719	G
24	BA	2720	U
24	BA	2725	A
24	BA	2727	G

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Mol	Chain	Res	Type
24	BA	2733	A
24	BA	2734	A
24	BA	2746	U
24	BA	2748	A
24	BA	2749	A
24	BA	2750	A
24	BA	2751	G
24	BA	2752	C
24	BA	2755	C
24	BA	2756	U
24	BA	2757	A
24	BA	2758	A
24	BA	2764	A
24	BA	2765	A
24	BA	2766	G
24	BA	2772	C
24	BA	2776	A
24	BA	2777	G
24	BA	2778	A
24	BA	2779	U
24	BA	2780	G
24	BA	2781	A
24	BA	2782	G
24	BA	2783	G
24	BA	2787	C
24	BA	2789	C
24	BA	2794	C
24	BA	2795	G
24	BA	2797	U
24	BA	2798	C
24	BA	2801	A
24	BA	2803	C
24	BA	2804	C
24	BA	2805	G
24	BA	2807	G
24	BA	2809	A
24	BA	2810	A
24	BA	2814	C
24	BA	2815	C
24	BA	2820	A
24	BA	2821	A
24	BA	2822	G

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Mol	Chain	Res	Type
24	BA	2823	A
24	BA	2832	U
24	BA	2833	G
24	BA	2834	G
24	BA	2835	A
24	BA	2836	U
24	BA	2845	G
24	BA	2847	U
24	BA	2849	U
24	BA	2850	A
24	BA	2851	A
24	BA	2853	C
24	BA	2858	C
24	BA	2860	A
24	BA	2866	U
24	BA	2867	G
24	BA	2868	A
24	BA	2870	C
24	BA	2871	C
24	BA	2872	G
24	BA	2874	C
24	BA	2878	U
24	BA	2879	C
24	BA	2880	C
24	BA	2883	A
24	BA	2892	A
24	BA	2893	G
24	BA	2894	G
24	BA	2900	A
25	BB	0	A
25	BB	1	U
25	BB	2	C
25	BB	3	C
25	BB	5	C
25	BB	6	C
25	BB	7	G
25	BB	8	U
25	BB	10	C
25	BB	12	C
25	BB	13	A
25	BB	15	A
25	BB	16	G

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Mol	Chain	Res	Type
25	BB	17	C
25	BB	25	A
25	BB	32	C
25	BB	34	U
25	BB	41	U
25	BB	42	C
25	BB	44	G
25	BB	45	A
25	BB	46	A
25	BB	51	G
25	BB	52	A
25	BB	54	G
25	BB	57	A
25	BB	62	C
25	BB	66	A
25	BB	67	G
25	BB	69	G
25	BB	73	A
25	BB	74	U
25	BB	75	G
25	BB	76	G
25	BB	87	G
25	BB	88	C
25	BB	89	G
25	BB	90	C
25	BB	96	G
25	BB	99	A
25	BB	103	U
25	BB	104	A
25	BB	109	G
25	BB	111	U
25	BB	112	G
25	BB	115	G
25	BB	116	G
25	BB	119	A
25	BB	120	U

All (436) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	7	G

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Mol	Chain	Res	Type
1	AA	8	A
1	AA	13	U
1	AA	30	U
1	AA	31	G
1	AA	47	C
1	AA	50	A
1	AA	51	A
1	AA	60	A
1	AA	64	G
1	AA	88	C
1	AA	99	C
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	121	C
1	AA	129(A)	G
1	AA	156	G
1	AA	190	G
1	AA	197	A
1	AA	208	U
1	AA	210	U
1	AA	243	A
1	AA	244	U
1	AA	246	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	274	A
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	305	G
1	AA	308	C
1	AA	315	A
1	AA	327	A
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	345	C
1	AA	351	G
1	AA	366	C
1	AA	367	U

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Mol	Chain	Res	Type
1	AA	372	C
1	AA	388	G
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	451	A
1	AA	484	G
1	AA	495	A
1	AA	496	A
1	AA	498	A
1	AA	508	C
1	AA	517	G
1	AA	518	C
1	AA	531	U
1	AA	533	A
1	AA	535	A
1	AA	547	A
1	AA	559	A
1	AA	560	U
1	AA	563	A
1	AA	566	G
1	AA	571	U
1	AA	575	G
1	AA	576	G
1	AA	622	A
1	AA	652	U
1	AA	653	A
1	AA	686	U
1	AA	687	A
1	AA	701	C
1	AA	702	A
1	AA	703	G
1	AA	717	C
1	AA	721	G
1	AA	723	U
1	AA	752	G
1	AA	753	A
1	AA	754	C
1	AA	792	A
1	AA	793	U
1	AA	812	C
1	AA	815	A

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Mol	Chain	Res	Type
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	843	U
1	AA	870	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	889	A
1	AA	890	G
1	AA	913	A
1	AA	945	G
1	AA	960	U
1	AA	965	A
1	AA	968	A
1	AA	974	A
1	AA	975	A
1	AA	982	U
1	AA	983	A
1	AA	992	U
1	AA	993	G
1	AA	1004	A
1	AA	1049	U
1	AA	1055	A
1	AA	1065	U
1	AA	1067	A
1	AA	1085	U
1	AA	1100	C
1	AA	1101	A
1	AA	1129	C
1	AA	1145	C
1	AA	1151	A
1	AA	1159	U
1	AA	1182	G
1	AA	1183	A
1	AA	1196	U
1	AA	1201	A
1	AA	1212	U
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C

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Mol	Chain	Res	Type
1	AA	1240	U
1	AA	1257	U
1	AA	1279	A
1	AA	1280	A
1	AA	1285	A
1	AA	1297	C
1	AA	1298	C
1	AA	1300	G
1	AA	1302	U
1	AA	1322	C
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1363	A
1	AA	1377	A
1	AA	1380	U
1	AA	1394	A
1	AA	1396	A
1	AA	1399	C
1	AA	1400	C
1	AA	1446	A
1	AA	1502	A
1	AA	1504	G
1	AA	1505	G
1	AA	1528	U
1	AA	1529	G
1	AA	1532	U
1	AA	1533	C
1	AA	1534	A
2	AC	7	G
2	AC	9	G
2	AC	19	G
2	AC	58	A
2	AC	60	U
2	AC	73	A
3	AD	16	U
3	AD	35	A
3	AD	58	A
3	AD	73	A
24	BA	13	A
24	BA	60	G
24	BA	67	U

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Mol	Chain	Res	Type
24	BA	70	G
24	BA	71	A
24	BA	83	G
24	BA	90	U
24	BA	119	A
24	BA	120	U
24	BA	196	A
24	BA	199	A
24	BA	204	A
24	BA	205	G
24	BA	215	G
24	BA	221	A
24	BA	227	A
24	BA	251	A
24	BA	262	A
24	BA	266	G
24	BA	270(L)	U
24	BA	270(M)	U
24	BA	271(B)	G
24	BA	280	C
24	BA	289	A
24	BA	309	G
24	BA	311	A
24	BA	323	G
24	BA	329	G
24	BA	331	A
24	BA	332	A
24	BA	350	U
24	BA	351	G
24	BA	371	A
24	BA	403	U
24	BA	434	U
24	BA	435	C
24	BA	442	G
24	BA	446	G
24	BA	455	C
24	BA	470	A
24	BA	479	A
24	BA	503	A
24	BA	504	U
24	BA	508	G
24	BA	526	A

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Mol	Chain	Res	Type
24	BA	530	G
24	BA	559	G
24	BA	566	U
24	BA	573	G
24	BA	574	C
24	BA	578	A
24	BA	587	C
24	BA	602	G
24	BA	616	A
24	BA	620	G
24	BA	630	G
24	BA	631	A
24	BA	637	A
24	BA	642	G
24	BA	643	A
24	BA	645	C
24	BA	669	G
24	BA	670	A
24	BA	685	A
24	BA	686	G
24	BA	687	C
24	BA	713	G
24	BA	727	A
24	BA	730	C
24	BA	733	G
24	BA	740	U
24	BA	745	G
24	BA	746	A
24	BA	747	U
24	BA	750	A
24	BA	764	A
24	BA	774	A
24	BA	776	G
24	BA	781	A
24	BA	782	A
24	BA	785	G
24	BA	788	A
24	BA	789	A
24	BA	800	A
24	BA	801	G
24	BA	805	G
24	BA	811	U

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Mol	Chain	Res	Type
24	BA	828	U
24	BA	829	A
24	BA	830	G
24	BA	846	C
24	BA	917	A
24	BA	930	U
24	BA	945	A
24	BA	957	A
24	BA	958	U
24	BA	960	A
24	BA	989	G
24	BA	1008	C
24	BA	1011	G
24	BA	1022	G
24	BA	1064	C
24	BA	1069	A
24	BA	1078	U
24	BA	1085	A
24	BA	1100	C
24	BA	1126	A
24	BA	1130	U
24	BA	1131	G
24	BA	1134	G
24	BA	1143	A
24	BA	1178	C
24	BA	1179	C
24	BA	1183	G
24	BA	1204	A
24	BA	1210	A
24	BA	1221	C
24	BA	1237	A
24	BA	1241	A
24	BA	1248	G
24	BA	1250	G
24	BA	1253	A
24	BA	1275	A
24	BA	1288	U
24	BA	1300	U
24	BA	1310	G
24	BA	1323	U
24	BA	1340	U
24	BA	1342	A

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Mol	Chain	Res	Type
24	BA	1344	G
24	BA	1349	A
24	BA	1378	A
24	BA	1393	A
24	BA	1406	U
24	BA	1420	U
24	BA	1427	A
24	BA	1428	C
24	BA	1477	A
24	BA	1514	U
24	BA	1515	C
24	BA	1552	G
24	BA	1554	A
24	BA	1558	A
24	BA	1566	A
24	BA	1585	C
24	BA	1608	A
24	BA	1610	A
24	BA	1617	C
24	BA	1626	G
24	BA	1634	A
24	BA	1647	G
24	BA	1650	G
24	BA	1664	A
24	BA	1674	G
24	BA	1693	U
24	BA	1694	C
24	BA	1698	A
24	BA	1699	G
24	BA	1772	G
24	BA	1778	U
24	BA	1780	A
24	BA	1784	A
24	BA	1791	A
24	BA	1800	C
24	BA	1819	A
24	BA	1828	G
24	BA	1833	U
24	BA	1838	C
24	BA	1858	G
24	BA	1908	C
24	BA	1929	G

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Mol	Chain	Res	Type
24	BA	1930	G
24	BA	1936	A
24	BA	1937	A
24	BA	1938	A
24	BA	1943	U
24	BA	1964	G
24	BA	1965	C
24	BA	1966	A
24	BA	1967	C
24	BA	1980	G
24	BA	1992	G
24	BA	2021	C
24	BA	2022	U
24	BA	2030	A
24	BA	2032	G
24	BA	2033	A
24	BA	2035	G
24	BA	2047	U
24	BA	2051	A
24	BA	2060	A
24	BA	2061	G
24	BA	2075	U
24	BA	2076	U
24	BA	2110	G
24	BA	2111	C
24	BA	2118	U
24	BA	2126	A
24	BA	2135	A
24	BA	2157	G
24	BA	2158	A
24	BA	2171	A
24	BA	2172	U
24	BA	2198	A
24	BA	2210	G
24	BA	2213	U
24	BA	2225	A
24	BA	2240	C
24	BA	2244	U
24	BA	2275	C
24	BA	2282	G
24	BA	2319	G
24	BA	2324	C

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Mol	Chain	Res	Type
24	BA	2336	A
24	BA	2344	U
24	BA	2345	G
24	BA	2373	G
24	BA	2384	G
24	BA	2389	G
24	BA	2392	A
24	BA	2402	C
24	BA	2405	G
24	BA	2422	A
24	BA	2423	U
24	BA	2425	A
24	BA	2427	C
24	BA	2439	A
24	BA	2447	G
24	BA	2448	A
24	BA	2450	A
24	BA	2451	A
24	BA	2468	G
24	BA	2481	G
24	BA	2489	G
24	BA	2490	G
24	BA	2491	U
24	BA	2492	U
24	BA	2500	U
24	BA	2503	A
24	BA	2519	U
24	BA	2542	A
24	BA	2572	A
24	BA	2581	G
24	BA	2597	G
24	BA	2602	A
24	BA	2609	U
24	BA	2610	C
24	BA	2614	A
24	BA	2655	G
24	BA	2682	U
24	BA	2689	U
24	BA	2690	C
24	BA	2705	A
24	BA	2707	G
24	BA	2726	U

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Mol	Chain	Res	Type
24	BA	2756	U
24	BA	2776	A
24	BA	2778	A
24	BA	2799	A
24	BA	2835	A
24	BA	2848	G
24	BA	2849	U
24	BA	2866	U
24	BA	2873	A
24	BA	2893	G
25	BB	7	G
25	BB	14	U
25	BB	15	A
25	BB	56	G

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
24	BA	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BA	2501:C	O3'	2502:G	P	1.90
1	BA	1203:G	O3'	1204:A	P	1.19

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1515/1522 (99%)	-0.51	3 (0%) 95 94	88, 158, 260, 350	0
2	AC	76/77 (98%)	-0.53	0 100 100	133, 166, 216, 249	0
3	AD	76/76 (100%)	-0.33	0 100 100	219, 265, 316, 334	0
4	AE	234/256 (91%)	-0.04	10 (4%) 39 32	122, 163, 221, 265	0
5	AF	206/239 (86%)	-0.03	4 (1%) 70 62	143, 182, 210, 228	0
6	AG	208/209 (99%)	-0.75	0 100 100	106, 148, 170, 187	0
7	AH	150/162 (92%)	-0.36	0 100 100	114, 139, 171, 200	0
8	AI	101/101 (100%)	0.22	2 (1%) 68 60	121, 150, 168, 203	0
9	AJ	155/156 (99%)	-0.03	0 100 100	155, 180, 208, 214	0
10	AK	138/138 (100%)	-0.65	0 100 100	113, 133, 153, 160	0
11	AL	127/128 (99%)	-0.22	1 (0%) 87 82	161, 225, 247, 255	0
12	AM	98/105 (93%)	0.58	15 (15%) 3 4	146, 208, 237, 240	0
13	AN	119/129 (92%)	-0.26	0 100 100	114, 142, 176, 206	0
14	AO	124/132 (93%)	-0.13	0 100 100	96, 129, 162, 184	0
15	AP	125/126 (99%)	-0.50	0 100 100	167, 194, 223, 230	0
16	AQ	60/61 (98%)	-0.44	0 100 100	163, 188, 203, 206	0
17	AR	88/89 (98%)	-0.71	0 100 100	113, 131, 168, 183	0
18	AS	83/88 (94%)	-0.92	0 100 100	104, 128, 155, 185	0
19	AT	104/105 (99%)	-0.74	0 100 100	98, 126, 169, 215	0
20	AU	73/88 (82%)	-0.36	4 (5%) 29 24	109, 136, 190, 224	0
21	AV	80/93 (86%)	0.22	1 (1%) 79 72	175, 198, 217, 222	0
22	AW	99/106 (93%)	-0.61	0 100 100	105, 134, 163, 166	0
23	AX	24/27 (88%)	-0.84	0 100 100	168, 210, 224, 229	0
24	BA	2889/2916 (99%)	-0.50	0 100 100	63, 155, 266, 322	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
25	BB	123/123 (100%)	-0.43	0 100 100	146, 209, 257, 291	0
26	BC	228/229 (99%)	0.25	17 (7%) 17 15	220, 256, 308, 312	0
27	BD	272/276 (98%)	0.01	4 (1%) 76 68	80, 125, 153, 198	0
28	BE	206/206 (100%)	-0.37	1 (0%) 91 88	69, 117, 172, 224	0
29	BF	208/210 (99%)	-0.42	0 100 100	111, 179, 215, 231	0
30	BG	182/182 (100%)	-0.31	3 (1%) 74 66	160, 198, 226, 240	0
31	BH	174/180 (96%)	-0.29	1 (0%) 90 86	146, 186, 216, 238	0
32	BK	148/148 (100%)	-0.44	0 100 100	135, 161, 188, 190	0
33	BL	138/147 (93%)	0.99	33 (23%) 1 2	277, 307, 330, 334	0
34	BM	139/140 (99%)	-0.43	1 (0%) 89 84	107, 133, 167, 183	0
35	BN	122/122 (100%)	-0.30	0 100 100	78, 106, 140, 154	0
36	BO	145/150 (96%)	0.03	10 (6%) 20 16	106, 190, 227, 239	0
37	BP	136/141 (96%)	-0.13	4 (2%) 55 45	109, 141, 173, 186	0
38	BQ	117/118 (99%)	-0.47	0 100 100	91, 124, 157, 173	0
39	BR	110/112 (98%)	-0.69	0 100 100	152, 183, 210, 248	0
40	BS	117/146 (80%)	-0.13	2 (1%) 73 65	83, 127, 165, 184	0
41	BT	117/118 (99%)	-0.39	1 (0%) 85 80	100, 138, 152, 158	0
42	BU	101/101 (100%)	0.32	7 (6%) 20 16	104, 160, 186, 197	0
43	BV	110/113 (97%)	-0.39	0 100 100	110, 143, 179, 195	0
44	BW	94/96 (97%)	-0.31	0 100 100	153, 170, 232, 237	0
45	BX	110/110 (100%)	-0.22	4 (3%) 46 39	157, 199, 247, 273	0
46	BY	180/206 (87%)	0.37	6 (3%) 50 41	142, 190, 211, 226	0
47	BZ	85/85 (100%)	-0.65	0 100 100	139, 166, 181, 197	0
48	B1	67/67 (100%)	-0.18	0 100 100	172, 186, 199, 209	0
49	B2	59/60 (98%)	-0.36	0 100 100	127, 163, 188, 202	0
50	B3	71/71 (100%)	-0.70	0 100 100	127, 160, 176, 185	0
51	B4	57/60 (95%)	-0.46	0 100 100	96, 147, 217, 241	0
52	B5	49/54 (90%)	-0.19	1 (2%) 68 60	141, 163, 183, 198	0
53	B6	49/49 (100%)	-0.40	0 100 100	87, 145, 164, 188	0
54	B7	64/65 (98%)	-0.44	0 100 100	113, 131, 153, 165	0
55	B8	37/37 (100%)	-0.80	0 100 100	146, 157, 169, 172	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
All	All	10767/11051 (97%)	-0.35	135 (1%)	79	72	63, 160, 260, 350	0

All (135) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
31	BH	177	GLY	6.7
33	BL	17	ALA	6.0
4	AE	231	GLU	5.1
12	AM	81	THR	4.6
26	BC	126	LYS	4.3
33	BL	138	VAL	4.3
26	BC	89	ALA	4.2
42	BU	13	ARG	4.2
33	BL	42	ASN	4.2
33	BL	139	VAL	4.2
33	BL	94	GLU	4.2
20	AU	17	SER	4.1
4	AE	237	ALA	4.0
20	AU	19	LYS	4.0
20	AU	16	PRO	4.0
26	BC	123	VAL	4.0
33	BL	18	THR	3.9
33	BL	35	MET	3.9
33	BL	84	LEU	3.8
33	BL	85	GLU	3.8
4	AE	235	SER	3.7
33	BL	16	LYS	3.5
26	BC	125	SER	3.5
12	AM	85	LEU	3.5
36	BO	120	ALA	3.5
12	AM	82	ILE	3.5
36	BO	119	GLU	3.5
33	BL	45	THR	3.4
26	BC	124	GLY	3.4
33	BL	39	LYS	3.3
4	AE	236	TYR	3.3
36	BO	145	PRO	3.2
33	BL	44	ALA	3.1
12	AM	89	ASP	3.1
33	BL	48	MET	3.1
5	AF	150	LYS	3.0
45	BX	87	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
5	AF	80	GLY	3.0
33	BL	43	ALA	3.0
26	BC	88	GLU	3.0
4	AE	232	PRO	3.0
33	BL	47	ASN	3.0
26	BC	122	ALA	2.9
36	BO	121	LYS	2.9
4	AE	238	LEU	2.9
33	BL	36	GLU	2.9
45	BX	85	VAL	2.9
33	BL	15	GLY	2.9
5	AF	201	TYR	2.8
46	BY	133	ILE	2.8
42	BU	6	LYS	2.8
12	AM	23	ILE	2.7
8	AI	10	LEU	2.7
37	BP	141	GLN	2.7
33	BL	13	PRO	2.7
26	BC	90	GLY	2.7
33	BL	46	ALA	2.7
46	BY	106	GLY	2.7
33	BL	33	ASN	2.7
34	BM	2	LYS	2.7
20	AU	18	ARG	2.7
1	AA	87	A	2.7
26	BC	100	ILE	2.7
36	BO	83	VAL	2.7
42	BU	14	VAL	2.6
30	BG	149	VAL	2.6
26	BC	91	ALA	2.6
33	BL	96	VAL	2.6
4	AE	234	PRO	2.6
26	BC	127	LEU	2.6
1	AA	84	U	2.6
37	BP	140	ALA	2.6
36	BO	123	LEU	2.6
26	BC	176	GLY	2.6
36	BO	144	GLU	2.6
12	AM	27	ALA	2.6
46	BY	139	VAL	2.5
4	AE	230	VAL	2.5
28	BE	94	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
36	BO	91	PHE	2.5
12	AM	34	VAL	2.5
5	AF	79	ARG	2.5
33	BL	34	ILE	2.4
1	AA	86	U	2.4
12	AM	78	ASN	2.4
11	AL	56	LEU	2.4
12	AM	86	MET	2.4
33	BL	38	VAL	2.4
42	BU	5	VAL	2.4
12	AM	84	GLN	2.4
26	BC	74	VAL	2.4
27	BD	120	GLY	2.4
33	BL	99	ILE	2.4
12	AM	90	LEU	2.4
26	BC	118	ASP	2.3
40	BS	29	ARG	2.3
45	BX	86	ARG	2.3
27	BD	119	ALA	2.3
26	BC	140	PRO	2.3
4	AE	233	SER	2.3
12	AM	88	LEU	2.3
46	BY	137	ILE	2.3
26	BC	121	GLY	2.3
8	AI	59	TYR	2.3
33	BL	19	PRO	2.3
12	AM	74	ILE	2.3
41	BT	91	ASP	2.2
36	BO	143	GLY	2.2
42	BU	15	GLU	2.2
33	BL	65	PHE	2.2
21	AV	48	THR	2.2
4	AE	239	VAL	2.2
33	BL	49	GLY	2.2
33	BL	63	ARG	2.1
30	BG	71	THR	2.1
46	BY	3	TYR	2.1
12	AM	83	GLU	2.1
42	BU	98	GLU	2.1
27	BD	103	ARG	2.1
46	BY	86	VAL	2.1
52	B5	37	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
37	BP	31	ASP	2.1
40	BS	49	VAL	2.1
30	BG	74	LYS	2.1
42	BU	4	ILE	2.1
33	BL	93	ARG	2.1
33	BL	98	ARG	2.1
12	AM	79	ARG	2.0
33	BL	37	PHE	2.0
33	BL	40	ALA	2.0
45	BX	89	PHE	2.0
37	BP	139	GLU	2.0
26	BC	1	PRO	2.0
27	BD	102	LYS	2.0
36	BO	84	ASN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.