



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:25 PM GMT

PDB ID : 4V4Y  
Title : Crystal structure of the 70S *Thermus thermophilus* ribosome with translocated and rotated Shine-Dalgarno Duplex.  
Authors : Jenner, L.; Yusupova, G.; Rees, B.; Moras, D.; Yusupov, M.  
Deposited on : 2006-06-27  
Resolution : 5.50 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](mailto: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.

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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

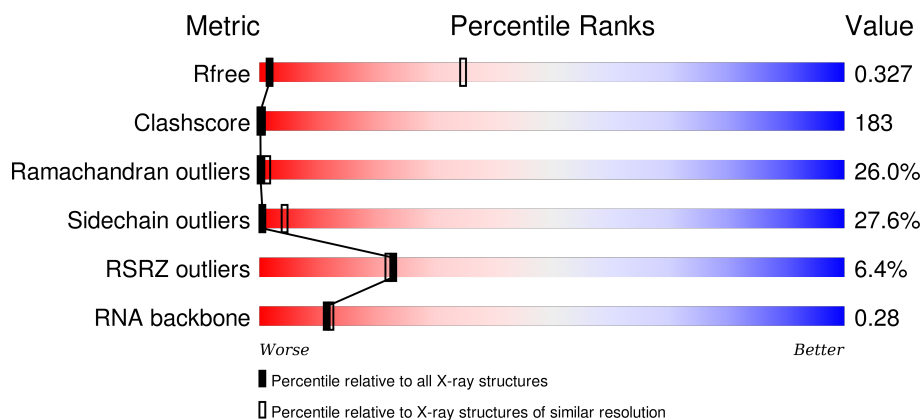
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*


The reported resolution of this entry is 5.50 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	1015 (7.38-3.62)
Clashscore	102246	1020 (7.10-3.70)
Ramachandran outliers	100387	1014 (7.36-3.64)
Sidechain outliers	100360	1013 (7.38-3.62)
RSRZ outliers	91569	1014 (7.38-3.62)
RNA backbone	2183	1101 (7.80-2.80)

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  $\geq 3$ , 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	
2	A1	50	
3	AB	76	
3	AC	76	

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Mol	Chain	Length	Quality of chain
3	AD	76	
4	AE	256	
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	

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Mol	Chain	Length	Quality of chain
28	BE	206	
29	BF	210	
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	

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Mol	Chain	Length	Quality of chain
53	B6	49	<div><div></div><div>45%</div><div></div><div>53%</div><div></div><div>37%</div><div></div><div>10%</div></div>
54	B7	65	<div><div></div><div>18%</div><div></div><div>52%</div><div></div><div>38%</div><div></div><div>8%</div><div></div></div>
55	B8	37	<div><div></div><div>8%</div><div></div><div>57%</div><div></div><div>30%</div><div></div><div>5%</div></div>

## 2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 151691 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 ribosomal RNA.

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 mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A1	50	Total	C	N	O	P	0	0	0
			1025	459	128	388	50			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
3	AD	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
3	AB	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	493	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

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Chain	Residue	Modelled	Actual	Comment	Reference
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			
			877	553	175	149	0	0	0

- 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			
			976	614	197	164	1	0	0	0

- 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			
			964	610	202	151	1	0	0	0

- 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			
			779	501	142	135	1	0	0	0

- 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			
			876	552	171	151	2	0	0	0

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

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

- 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			
			844	539	158	141	6	0	0	0

- 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 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			

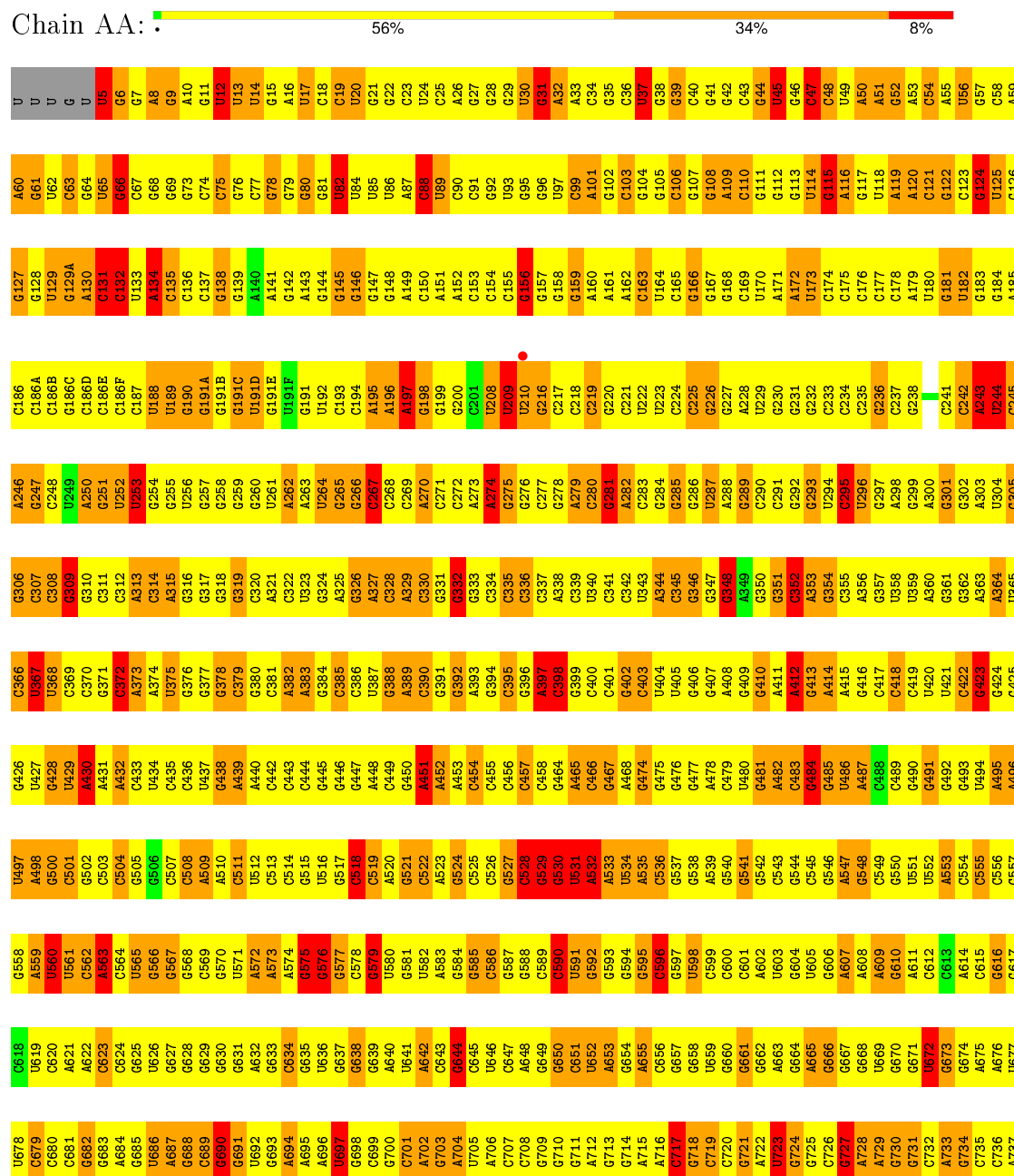
- Molecule 55 is a protein called 50S ribosomal protein L36.

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

### 3 Residue-property plots

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

- Molecule 1: 16S ribosomal RNA



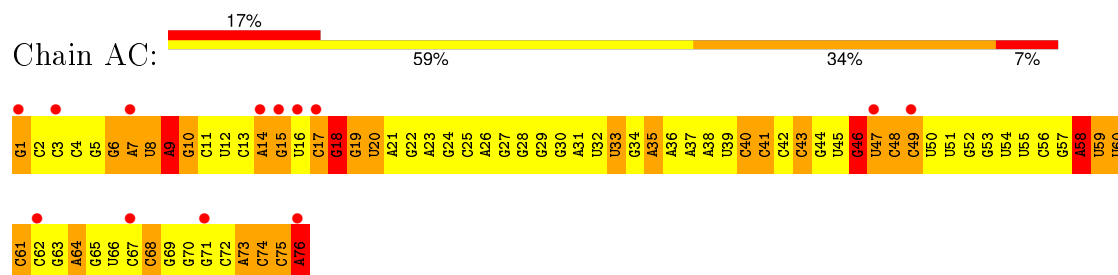
C1524	C1399	A1340	G1220	U1559	G1099	G1039	C984	C924	A864	G798	C738
G1525	C1400	U1341	G1221	G1160	C1100	U1040	C985	G925	A865	G799	C739
G1526	G1401	C1342	G1222	C1161	A1101	A1041	C986	G926	C866	G800	U740
G1527	C1402	G1343	C1223	G1162	A1102	G1042	G987	G927	G867	U801	G741
U1528	C1403	C1344	G1224	C1163	C1103	C1043	C988	G928	C868	A802	G742
G1469	C1404	U1345	A1285	G1164	G1104	A1044	C989	G929	C869	G803	U743
G1470	G1405	A1346	G1226	C1165	A1105	C1045	C990	C930	U870	U804	C744
G1471	U1406	G1347	G1227	G1166	A1106	A1046	C991	C931	U871	C806	C745
U1407	C1407	U1348	C1228	G1167	C1107	G1047	U992	C932	A872	C806	A746
C1533	C1408	A1349	A1229	G1168	G1108	U1048	G993	G933	A873	A807	C747
A1534	C1409	A1350	C1230	A1169	C1109	U1049	G994	C934	A874	C808	C748
C1535	G1410	G1351	G1231	A1170	C1110	G1050	C995	A935	C875	G809	C749
C1536	C1411	C1352	U1232	G1171	A1111	C1051	A996	C936	G876	C810	G750
U1537	C1412	G1353	G1233	G1173	C1112	U1052	U997	A937	C877	C811	U751
A1413	A1413	C1354	G1234	G1174	C1113	G1053	G998	A938	G878	C812	G752
U1414	G1415	G1355	U1235	G1175	C1114	C1054	C998A	G939	C879	U813	A753
G1416	G1416	G1356	A1236	A1176	C1115	A1055	U999	C940	C880	A814	C754
U1481	G1417	A1357	C1237	G1177	C1116	U1056	A1000	G941	G881	A815	G755
G1482	G1417	U1358	A1238	G1178	G1117	G1057	G1001	G942	C882	A816	C756
A1483	A1418	C1359	A1239	A1179	C1118	G1058	G1002	U943	C883	C817	U757
G1484	G1419	A1360	U1240	A1180	C1119	C1059	G1003	G944	U884	G818	G758
U1485	G1420	G1361	G1241	G1181	G1120	G1060	A1004	G945	C885	A819	A759
G1486	C1421	C1362	C1242	G1182	U1121	G1061	A1005	A946	G886	U820	G760
G1487	G1422	C1362A	C1243	A1183	U1122	U1062	C1006	G947	G887	G821	G761
G1488	G1423	A1363	G1244	G1184	A1123	C1063	C1007	C948	G888	C822	C762
C1489	C1424	U1364	A1245	C1365	G1124	G1064	C1008	A949	A889	G823	G763
U1490	U1425	G1365	C1246	G1186	U1125	U1065	G1009	U950	G890	C824	C764
G1491	G1426	C1366	U1247	G1187	U1126	C1066	G1010	U951	U891	G825	G765
A1492	U1427	C1367	A1248	A1188	G1127	A1067	G1011	U952	A892	C826	A766
A1493	A1428	G1368	G1309	G1189	C1128	G1068	U1012	G953	C893	U827	A767
G1494	C1429	C1369	G1310	G1190	C1129	C1069	G1013	G954	C894	A828	A768
U1495	C1430	G1370	G1311	A1191	A1130	U1070	A1014	U955	G895	G829	G769
C1496	C1431	G1371	A1251	A1192	G1131	C1071	C1015	U956	C896	G830	C770
G1497	A1432	U1372	A1252	G1193	C1132	G1072	A1016	U957	C897	U831	G771
U1498	A1433	G1373	C1254	U1194	G1133	U1073	G1017	A958	C898	C832	U772
A1499	A1434	A1374	G1255	C1195	G1134	G1074	C1018	A959	C899	U833	G773
G1495	G1435	A1375	A1256	U1196	U1135	C1075	C1019	U960	A900	C834	G774
C1501	U1436	U1376	U1257	G1197	U1136	C1076	U1020	U961	A901	U835	G775
A1502	C1437	A1377	G1258	G1198	C1137	U1077	G1021	C962	G902	G836	G776
A1503	G1438	C1378	C1259	U1199	G1138	U1078	G1022	G963	G903	G837	A777
G1504	C1439	G1379	C1260	C1200	G1139	G1079	G1023	A964	C904	G838	G778
G1505	C1440	U1380	A1261	A1201	C1140	A1080	G1024	A965	U905	U841	C779
U1506	G1441	U1381	C1262	G1202	G1141	G1081	U1025	G966	G906	C842	A780
A1507	G1442	C1382	C1263	C1203	G1142	G1082	C1026	C967	A907	U843	A781
G1508	G1443	C1383	C1264	A1204	G1143	U1083	C1027	A968	A908	C846	A782
C1509	A1446	C1384	G1265	U1205	G1144	G1084	C1028	A969	A909	C849	C783
U1510	G1447	G1385	G1266	G1206	C1145	U1085	C1028A	C970	C910	U850	C784
G1511	C1448	G1386	C1267	G1207	A1146	U1086	C1028B	G971	U911	G851	G785
U1512	C1449	G1387	A1268	C1208	C1147	G1087	G1029	C972	C912	G852	G786
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G1517	G1454	C1392	G1273	A1213	A1152	U1092	G1032B	A977	G917	C857	G791
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G1520	A1460	C1395	G1275	G1216	G1155	U1095	A1035	C980	U920	A860	A794
U1521	G1461	A1396	G1276	C1217	G1156	C1096	C1036	U981	U921	G861	C795
U1522	C1397	C1397	U1278	C1218	A1157	C1097	C1037	U982	G922	C862	C796
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• Molecule 2: mRNA

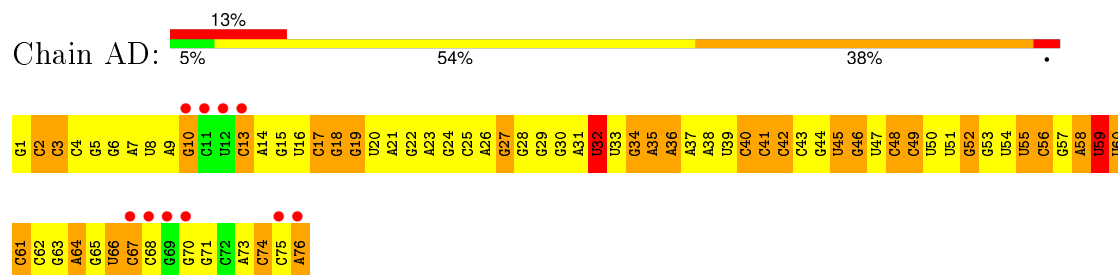


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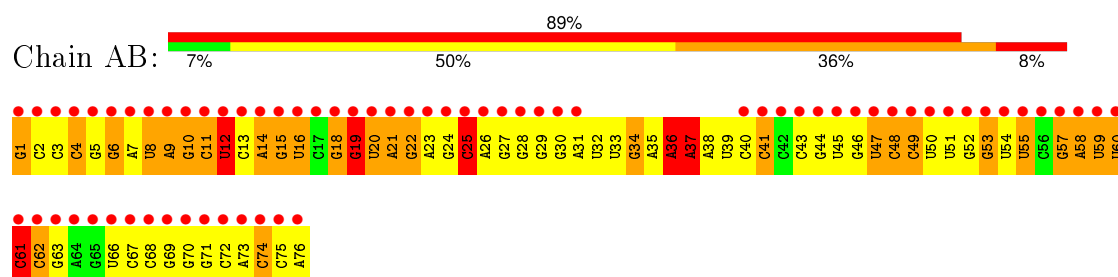
- Molecule 3: tRNA PHE (unmodified bases)



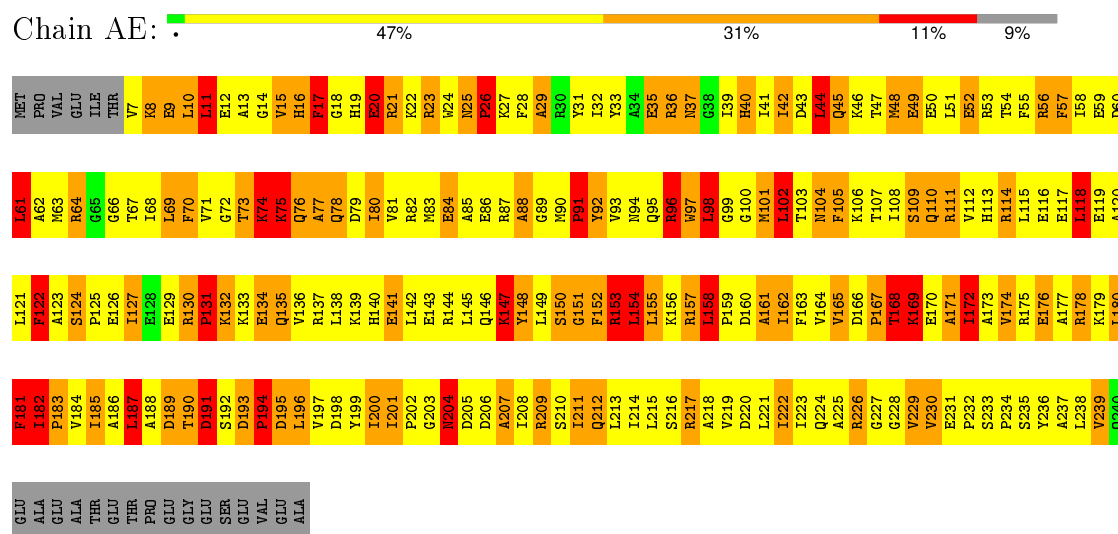
- Molecule 3: tRNA PHE (unmodified bases)



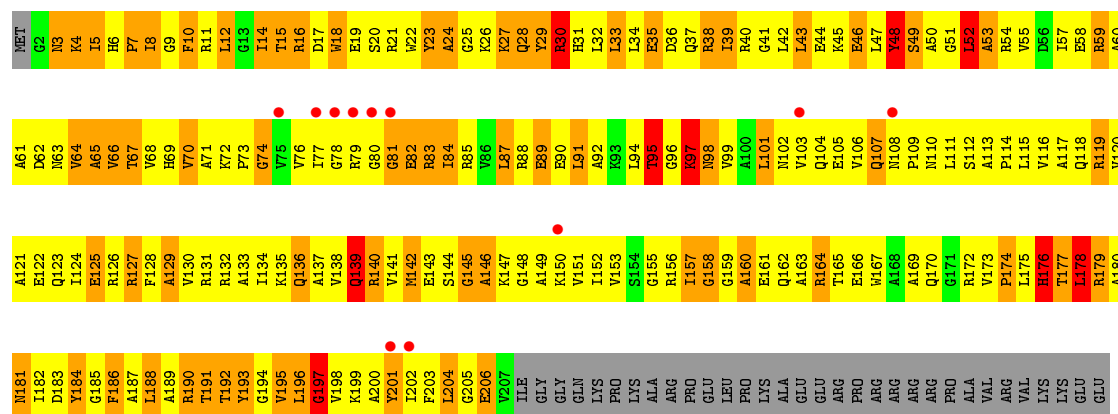
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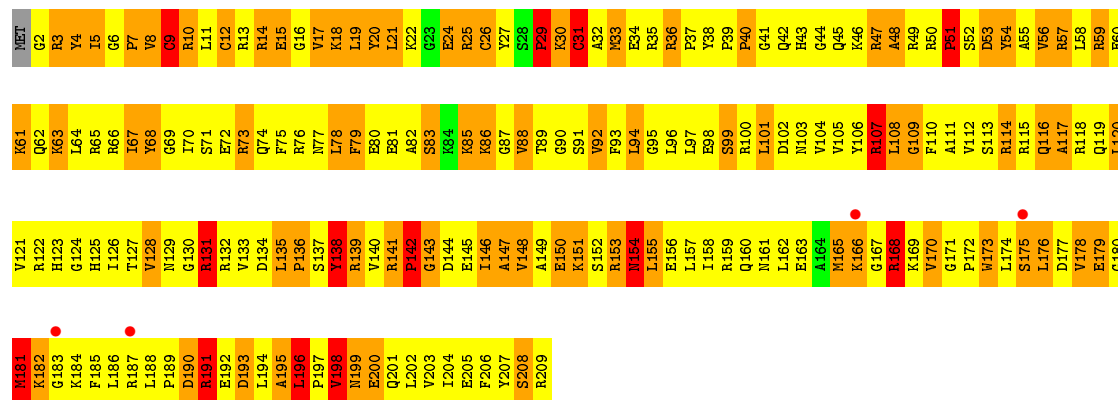
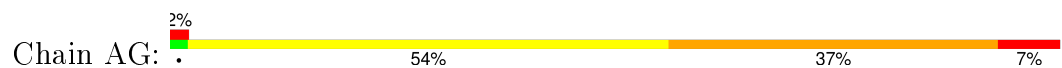
- Molecule 4: 30S ribosomal protein S2



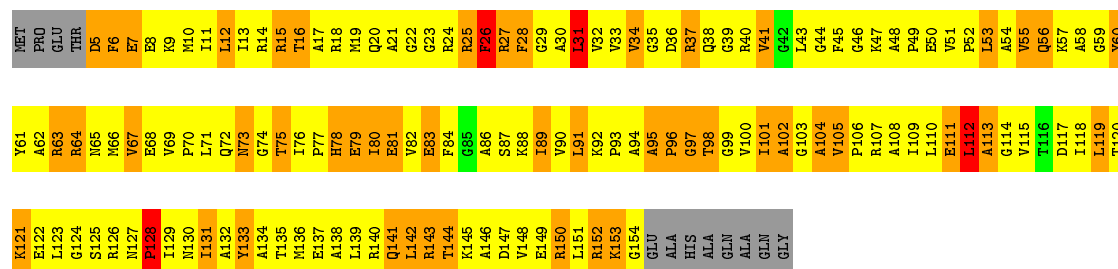
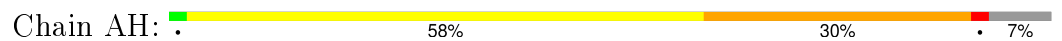
- Molecule 5: 30S ribosomal protein S3



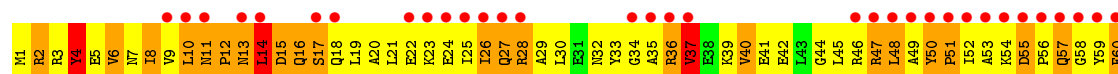
• Molecule 6: 30S ribosomal protein S4

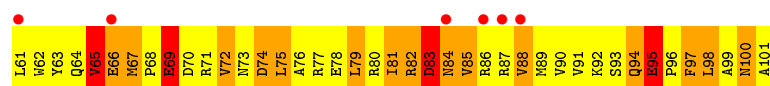


• Molecule 7: 30S ribosomal protein S5

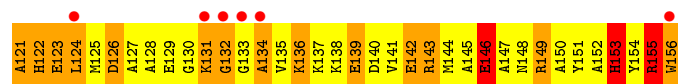


• Molecule 8: 30S ribosomal protein S6

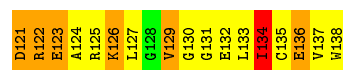
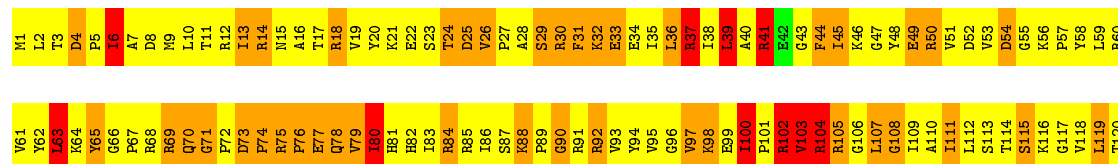




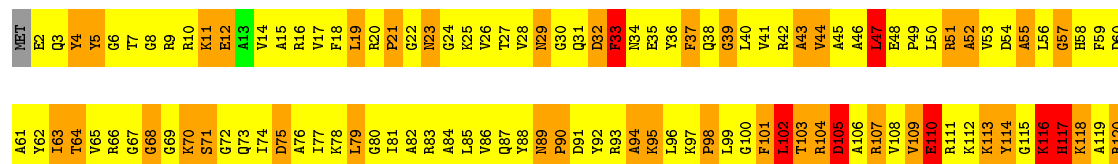
• Molecule 9: 30S ribosomal protein S7



• Molecule 10: 30S ribosomal protein S8



• Molecule 11: 30S ribosomal protein S9

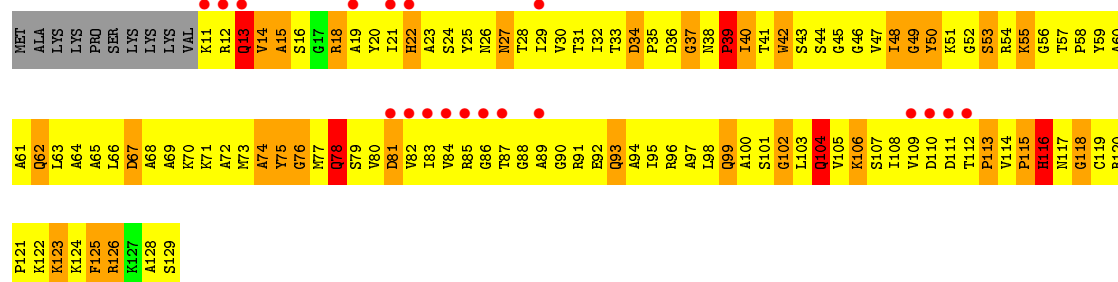


• Molecule 12: 30S ribosomal protein S10

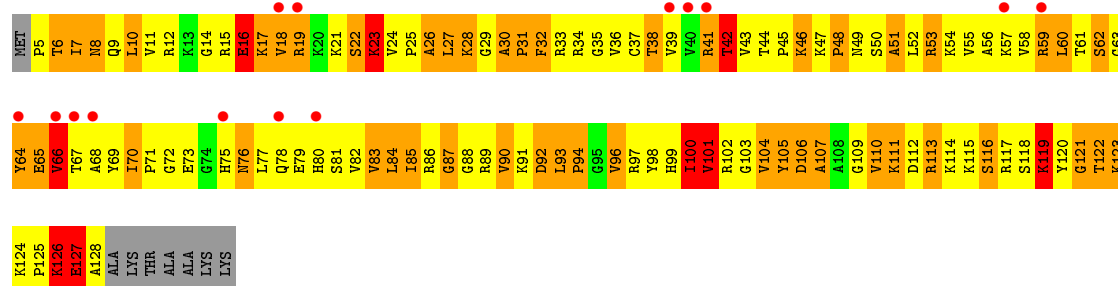




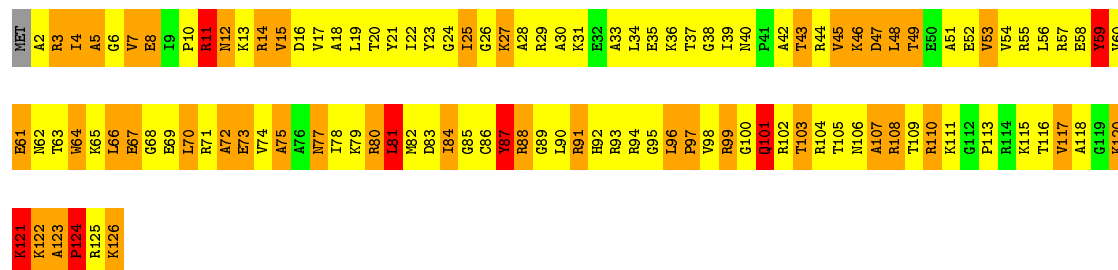
• Molecule 13: 30S ribosomal protein S11



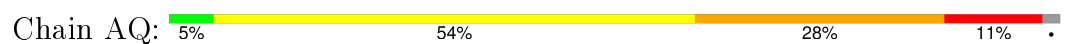
• Molecule 14: 30S ribosomal protein S12



• Molecule 15: 30S ribosomal protein S13




• Molecule 16: 30S ribosomal protein S14





W61


- Molecule 17: 30S ribosomal protein S15

Chain AR:  66% 28% 6%

MET P2 I3 T4 R5 E6 E7 Q8 Q9 K10 V11 S11 I12 I13 E14 F15 A16 R17 R18 F19 P19 G20 D21 D22 T22 G23 G24 S24 T25 E26 V27 V28 Q28 V29 A30 L31 L32 T33 L34 R35 R36 I37 I38 R39 L39 S40 S41 E41 E42 H42 L43 L44 V45 H46 K47 K48 D49 H50 H51 S52 S53 R54 G55 L56 L57 P58 P59 V60

G61 Q62 R63 R64 R65 L66 L67 Y68 Y69 L70 Q71 Q72 R73 E74 D75 E76 E77 Y78 Y79 A80 L81 L82 E83 E84 K85 L86 G86 L87 R88 G89

- Molecule 18: 30S ribosomal protein S16

Chain AS:  56% 33% 6% 6%

M1 V2 K3 K4 I4 R5 L6 A7 R8 F9 G10 A11 K12 K13 H14 P15 H16 Y17 Y18 R19 I19 V20 V21 T22 D23 A24 R25 R26 R27 R28 D29 G30 K31 Y32 I33 E34 K35 I36 G37 Y38 Y39 D40 P41 R42 K43 T44 T45 P46 D47 W48 L49 K50 V51 D52 V53 E54 R55 A56 R57 Y58 P59 L60

S61 V62 G63 A64 Q65 P66 T67 D68 T69 A70 R71 R72 R73 L74 R75 Q76 A77 G78 V79 F80 R81 R82 Q83 E84 ALA A85 ARG GLY ALA


- Molecule 19: 30S ribosomal protein S17

Chain AT:  2% 54% 35% 6%

MET P2 K3 K4 V5 L6 L7 G8 V9 V10 V11 S12 D13 K14 R15 Q16 K17 V18 T19 T20 T21 V22 V23 E24 E25 Q26 Q27 F28 F29 R30 P31 L31 Y32 G33 K34 Y35 V36 I37 R38 S39 S40 K41 K42 Y43 L44 H45 D46 P47 E48 E49 K50 Y51 K52 L53 G54 D55 V56 N57 E58 I59 L60

E61 S62 R63 P64 I65 S66 K67 R68 R69 F70 F71 R72 V73 L74 R75 L76 V77 V78 S79 G80 R81 N82 D83 L84 V85 E86 K87 Y88 L89 R90 R91 R92 Q93 N94 Y95 Q96 S97 R98 S99 K100 K101 G102 G103 K104 A105

- Molecule 20: 30S ribosomal protein S18

Chain AU:  7% 50% 22% 9% 17%

MET SER THR LYS ASN ALA LYS PRQ LYS LYS LYS GLU ALA GLN ARG ARG P16 S17 R18 K19 A20 K21 V22 K23 K24 T25 L26 G27 E28 F29 D30 L31 R32 D33 Y34 R35 R36 V37 E38 V39 L40 L41 K42 F43 L44 S45 E46 T47 G48 K49 K50 L51 P52 R53 R54 R55 T56 G57 S58 S59 G60

K61 E62 Q63 R64 I65 L66 A67 K68 T69 I70 K71 R72 A73 R74 I75 L76 G77 L78 L79 P80 F81 T82 E83 K84 L85 V86 R87 K88

- Molecule 21: 30S ribosomal protein S19

Chain AV:  6% 48% 29% 5% 14%

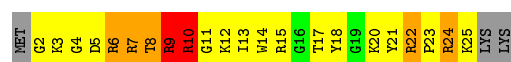
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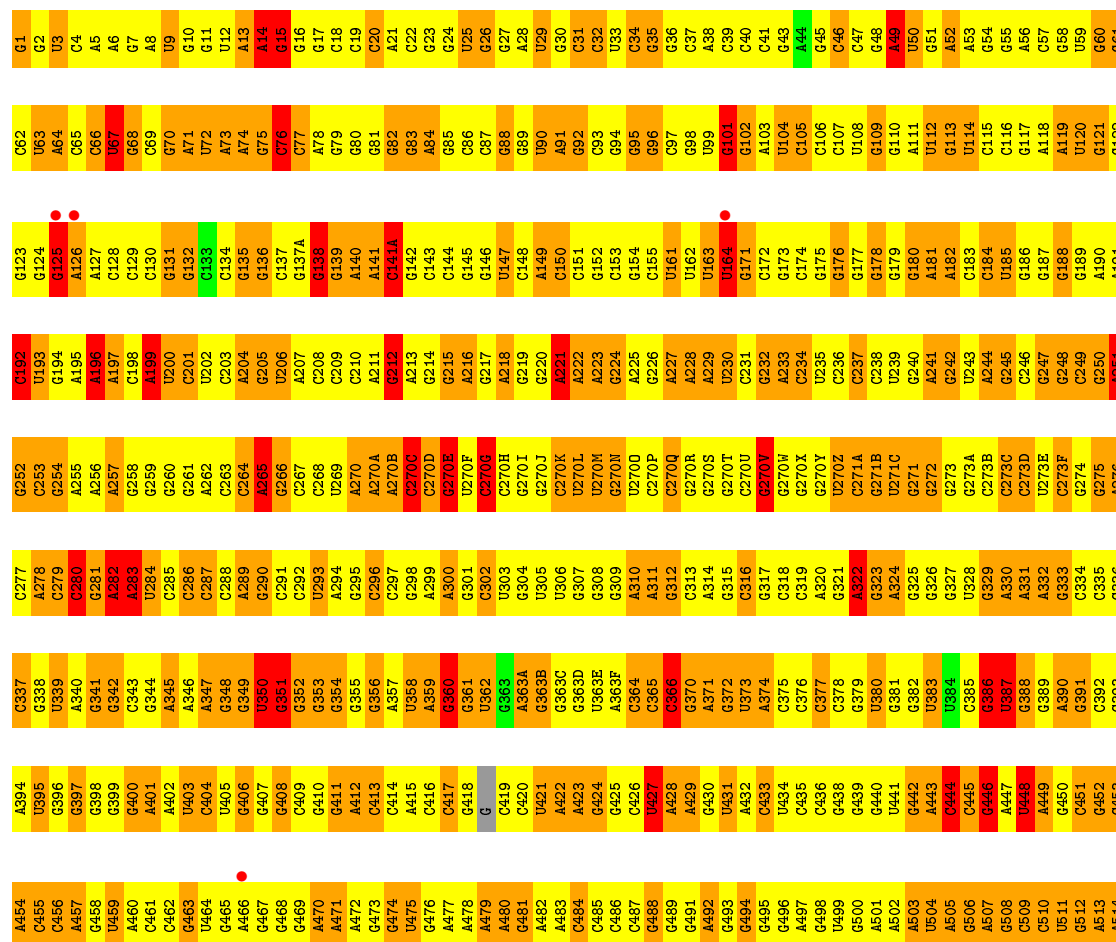
• Molecule 22: 30S ribosomal protein S20



• Molecule 23: 30S ribosomal protein Thx



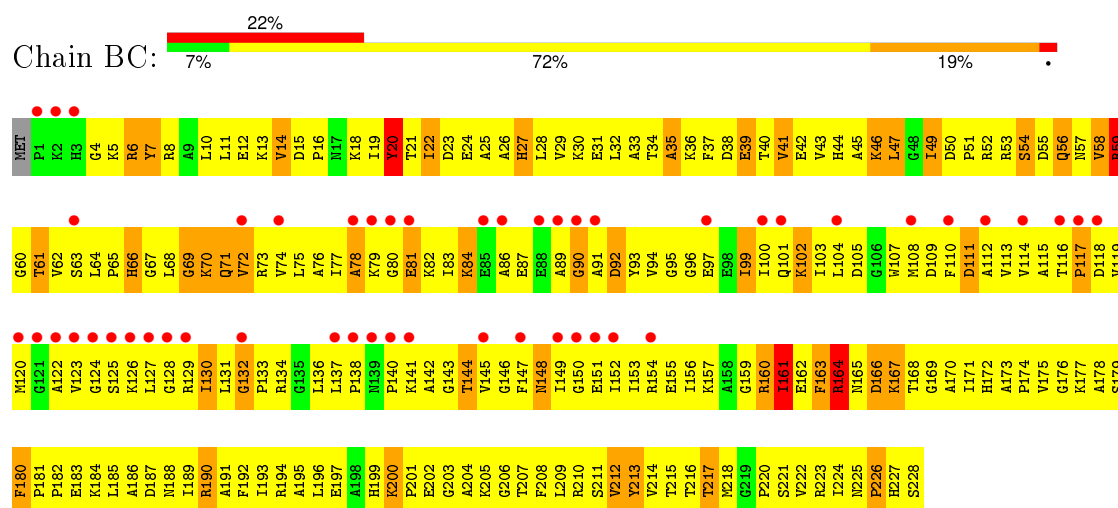
• Molecule 24: 23S ribosomal RNA



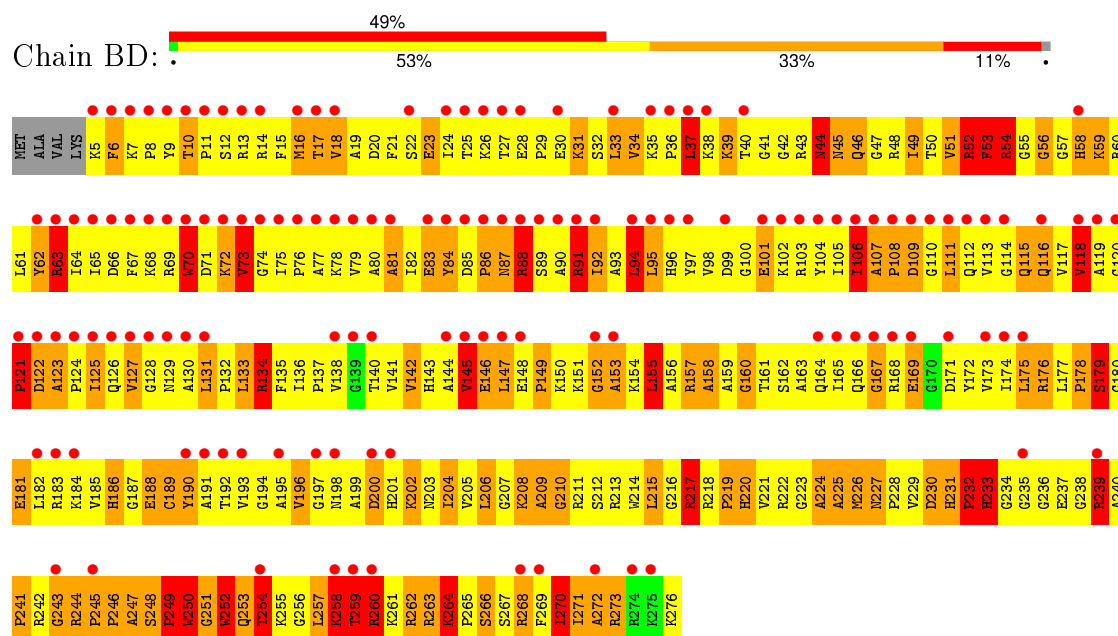
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G1337	G1277	G1216	A1155	A1096	G1036	G976	G916	G855	G795	A735	A675	A637	A579	C517
G1338	G1278	C1217	A1156	U1097	G1037	G977	A917	C856	G796	C736	A676	G638	C580	A518
G1339	G1279		G1157	A1098	G1038	G978	A918	C857	G797	C737	A677	G639	C581	U519
U1340	G1280	A1220	G1158	G1099	G1039	G979	A919	C858	G798	C738	C678	C640	G582	G520
U1341	G1281	C1221	U1159	C1100	C1040	A980	G920	G859	G799	G739	C679	G641	G583	C521
A1342	U1282	C1222	U1160	U1101	C1041	A981	G921	C860	A800	G740	G680	G642	C584	G522
G1343	G1283	C1223	C1161	C1102	G1042	C982	U922	A861	G801	G741	G681	A643	G585	C523
A1344	G1284	G1224	A1162	A1103	C1043	A983	C923	G862	A802	G742	A682	A644	A586	U524
C1345	G1285	G1225	G1163	C1104	G1044	A984	C924	A863	U803	G743	C683	C645	C587	U525
G1346	A1286	G1226	U1164	U1105	A1045	G985	C925	C864	A804	G744	G684	A646	U588	A526
G1347	A1287	A1227	G1165	G1106	A1046	C986	A926	C865	G805	G745	A685	G647	C589	C527
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A1349	C1289	G1229	U1167	U1108	A1048	A988	G929	U868	U807	G747	C687	G649	G591	A529
C1350	C1290	C1230	G1168	C1109	C1049	A989	U930	U868	G808	G748	U688	C	G592	A530
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G2210	C2145	C2084	G2024	U1984	G1904	C1835	U1775	G1699	U1639	A1579	U1520	G1489	G1400
G2211	C2146	C2085	C2025	C1985	C1905	C1836	G1776	A1700	C1640	A1580	G1521	A1480	G1401
A2212	G2147	U2086	C2026	A1986	G1906	C1837	U1777	A1701	A1641	G1581	G1522	G1481	C1402
U2213	G2148	G2087	G2027	C1987	G1907	C1838	U1778	G1702	G1642	C1582	U1523	G1482	C1403
G2215	G2149	G2088	U2028	G1988	C1908	G1839	U1779	G1703	G1643	A1583	G1524	C1483	A1404
G2216	U2150	U2089	G2029	A1989	C1909	G1840	A1780	G1704	C1644	C1585	G1525	C1484	U1405
G2217	G2151	G2090	A2030	U1990	G1910	U1841	C1781	G1705	G1645	A1586	G1526	G1485	U1406
G2218	G2152	U2091	A2031	A1991	U1911	U1842	G1782	U1706	C1646	A1587	G1527	G1486	U1407
G2219	G2153	U2092	G2032	A1972	A1912	C1843	A1783	G1707	G1647	C1588	A1528	C1487	C1408
G2224	G2154	G2093	A2033	G1973	A1913	C1844	A1784	C1708	C1648	C1589	A1529	C1488	C1409
A2225	G2155	U2094	U2034	C1974	C1914	G1845	A1785	U1709	G1649	A1590	G1530	A1489	G1410
C2226	G2156	C2095	G2035	G1975	U1915	G1846	A1786	U1710	G1650	G1591	C1531	G1470	C1411
A2227	U2157	U2096	C2036	U1976	A1916	A1847	A1787	C1711	G1651	C1592	C1532	A1471	A1412
G2228	A2158	C2097	G2037	A1977	U1917	A1848	G1788	C1712	A1652	G1593	G1533	A1472	G1413
C2229	G2159	U2098	G2038	A1978	A1918	G1849	A1789	U1716	G1653	G1594	G1534	G1473	G1414
G2230	G2160	U2099	C2039	C1979	A1919	G1850	C1790	U1717	G1654	G1595	U1535	G1474	U1415
C2231	C2161	G2100	C2040	G1980	C1920	U1851	A1791	G1718	A1655	A1596	A1536	G1475	G1416
U2232	C2162	G2101	U2041	A1981	G1921	C1852	G1792	G1725	C1656	A1597	C1537	C1476	C1417
U2233	C2163	U2102	A2042	C1982	G1922	A1853	C1793	G1726	C1657	C1598	G1538	A1477	G1418
G2234	C2164	C2103	C2043	C1983	U1923	A1854	U1794	U1727	C1658	C1599	G1539	A1419	A1419
G2235	G2165	G2104	C2044	G1984	C1924	G1855	C1795	G1728	U1659	G1600	G1540	U1420	U1420
C2236	C2166	C2105	C2045	G1985	C1925	G1856	U1796	A1729	G1660	G1601	U1541	G1480	G1421
G2237	U2167	G2106	G2046	A1986	U1926	G1857	C1797	U1730	G1661	U1602	U1542	G1481	G1422
G2238	C2168	C2107	U2047	G1987	A1927	G1858	U1798	G1731	C1662	A1603	G1543	G1482	G1423
G2239	A2169	G2108	G2048	C1988	A1928	G1859	G1799	A1732	C1663	C1604	A1544	G1483	G1424
C2240	A2170	U2109	C2049	G1989	G1929	G1860	G1800	G1733	A1664	C1605	A1545	G1484	G1425
A2241	A2171	C2110	C2050	C1990	G1930	G1861	G1801	C1734	A1665	G1606	A1545A	A1486	G1426
G2242	U2172	G2112	A2051	U1991	U1931	G1862	A1802	C1741	G1666	C1607	C1546	G1487	A1427
U2243	C2173	U2113	G2052	C1992	A1932	G1863	A1803	G1742	A1668	A1608	C1547	G1488	C1428
U2244	C2174	A2114	G2053	U1993	G1933	G1864	C1804	C1743	G1669	A1609	C1548	U1489	G1429
U2245	C2175	G2115	A2054	C1994	C1934	G1865	U1805	G1746	A1669	A1610	C1549	A1490	C1430
G2246	A2176	G2116	G2055	U1995	G1935	C1870	C1806	G1746	G1670	G1611	C1550	G1491	U1431
A2247	C2177	A2117	G2056	C1996	A1936	A1871	G1807	G1747	U1671	C1612	C1551	G1492	C1432
C2248	C2178	U2118	A2057	G1997	A1937	A1872	U1808	G1748	C1672	G1613	G1552	C1493	U1433
U2249	C2179	A2119	A2058	C1998	A1938	G1878	A1809	A1749	U1673	A1614	A1553	A1494	A1434
G2250	U2180	G2120	C2059	C1999	U1939	C1879	A1810	G1750	G1674	C1615	A1554	A1495	G1435
G2251	G2181	G2121	A2060	G2000	U1940	C1880	G1811	C1751	G1675	A1616	G1555	A1496	G1436
G2252	C2182	U2122	G2061	A2001	C1941	C1881	A1812	C1752	A1676	C1617	C1556	U1497	U1437
G2253	C2183	G2123	A2062	C2002	C1942	C1882	G1813	G1753	A1677	A1618	C1557	C1498	U1438
C2254	A2184	G2124	C2063	G2003	U1943	G1883	G1814	C1754	G1678	G1619	A1558	C1499	A1439
G2255	C2185	G2125	C2064	G2004	U1944	A1884	A1815	A1755	U1679	G1620	G1559	G1500	G1440
G2256	A2186	A2126	C2065	A2005	G1945	G1885	G1756	G1756	U1680	U1621	G1560	C1501	G1441
U2257	G2187	G2127	C2066	C2006	U1946	C1886	G1817	U1757	G1681	G1622	G1561	C1502	G1442
C2258	C2188	C2128	G2067	C2007	C1947	C1887	U1818	G1758	G1682	G1623	A1562	U1503	G1443
G2259	U2189	C2129	U2068	C2008	G1948	G1888	A1819	A1759	C1683	G1624	C1563	C1504	G1444
C2260	G2190	U2130	G2069	G2009	G1949	A1889	U1820	A1760	C1684	C1625	C1564	C1505	A1444A
C2261	G2191	G2131	G2070	G2010	G1950	A1890	A1821	C1761	C1685	G1626	C1565	C1506	G1445
U2262	G2192	U2132	A2071	U2011	U1951	G1891	A1762	A1762	C1686	G1627	A1566	A1507	G1446
C2263	G2193	G2133	G2072	G2012	A1952	C1892	G1823	G1763	G1687	G1628	A1567	A1508	G1447
G2264	G2194	A2134	C2073	A2013	A1953	C1893	G1824	G1764	U1688	G1629	G1568	G1448	G1448
U2265	C2195	A2135	C2074	G1954	C1934	C1894	A1825	G1765	A1689	G1630	A1569	A1510	A1449
A2266	C2196	A2015	U2075	A2015	U1955	C1895	G1826	U1766	A1690	C1630A	A1570	G1450	G1449A
A2267	U2197	U2016	U2076	U2016	U1956	G1896	G1827	C1767	C1691	A1631	A1571	G1512	C1450
A2268	C2198	C2137	A2077	U2017	C1957	G1897	G1828	U1768	U1692	A1632	A1572	C1513	C1451
A2269	A2199	C2139	C2078	G2018	C1958	U1898	A1829	G1769	U1693	G1633	G1573	U1514	A1453

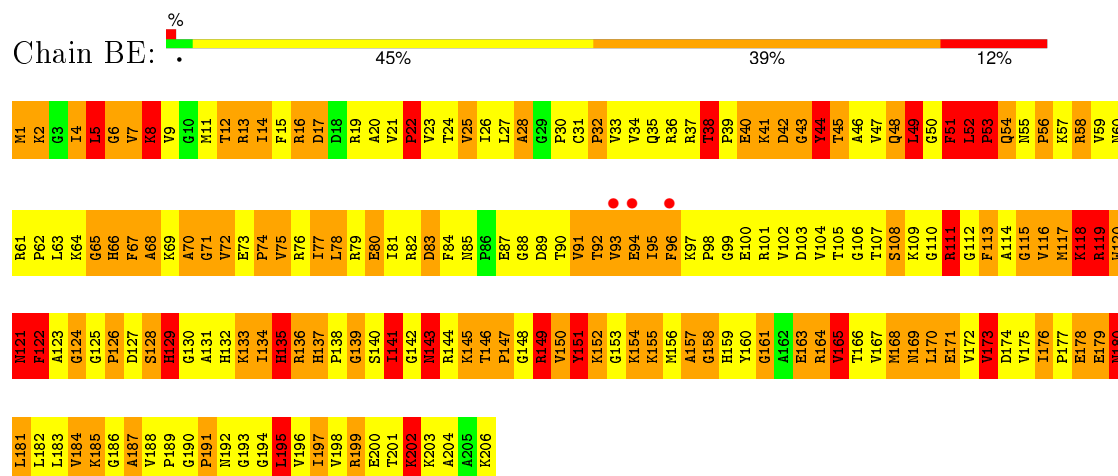




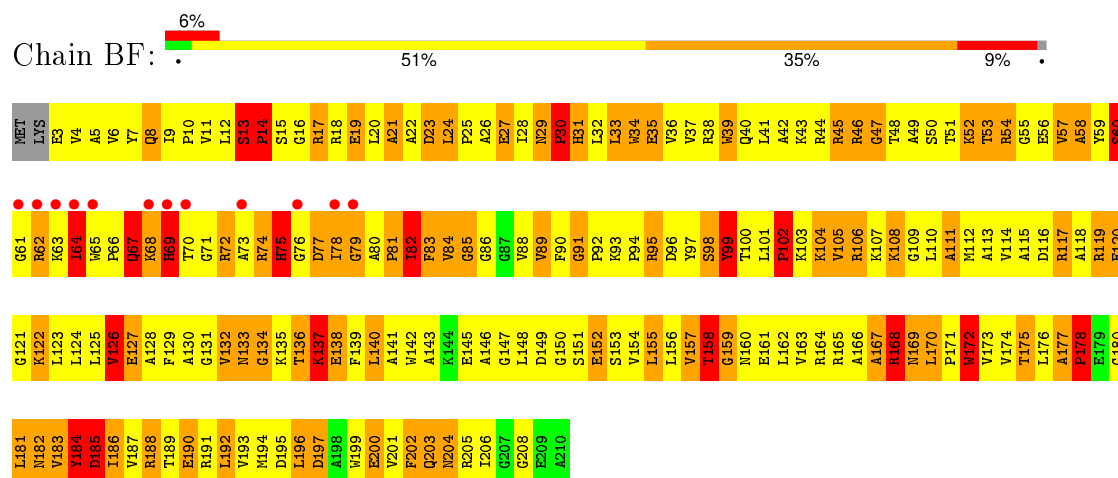
• Molecule 27: 50S ribosomal protein L2



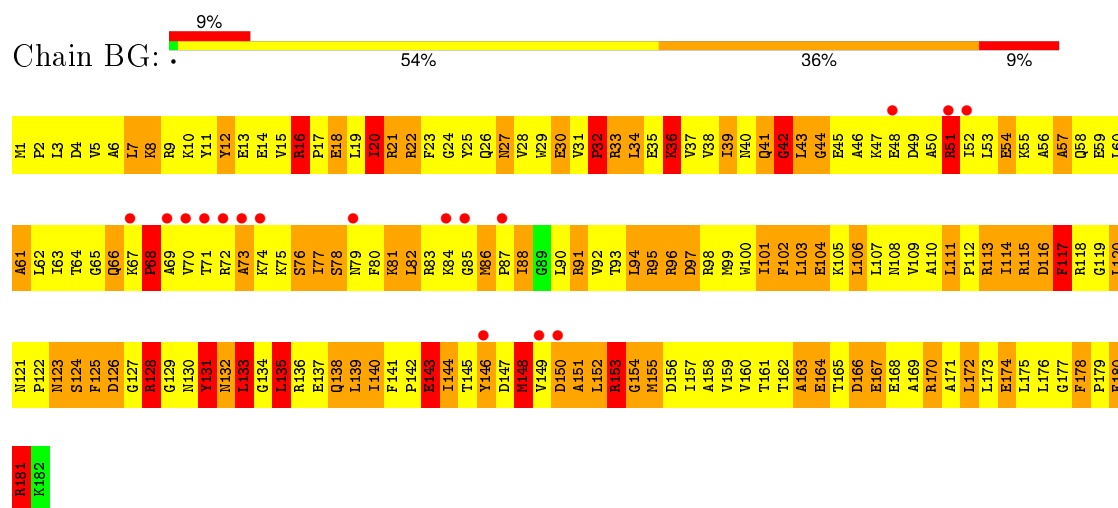
• Molecule 28: 50S ribosomal protein L3



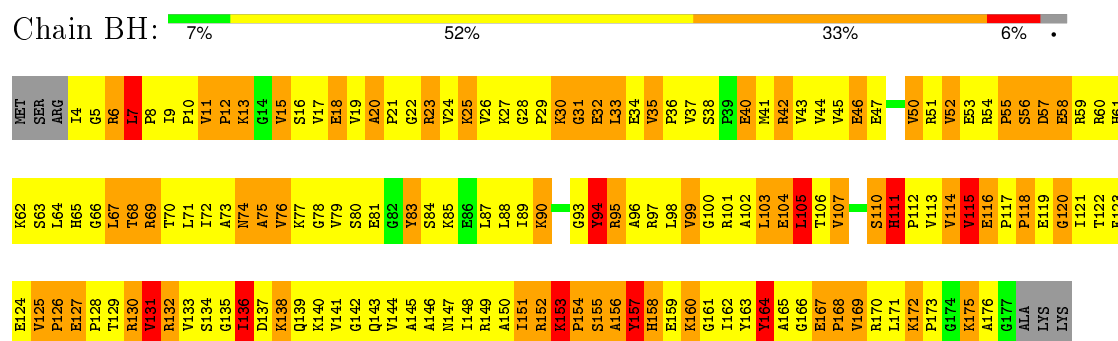
- Molecule 29: 50S ribosomal protein L4



- Molecule 30: 50S ribosomal protein L5

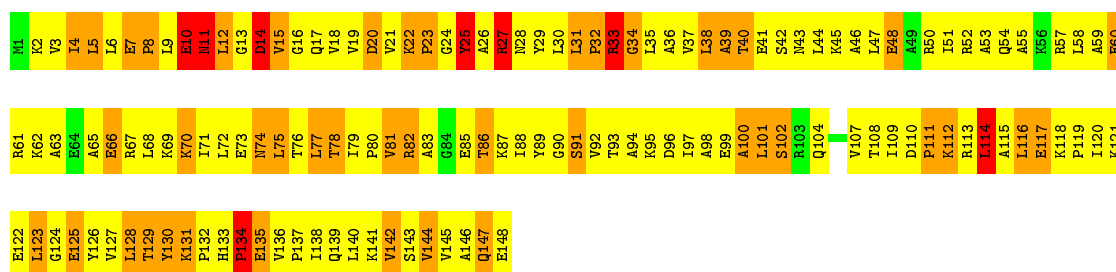


- Molecule 31: 50S ribosomal protein L6

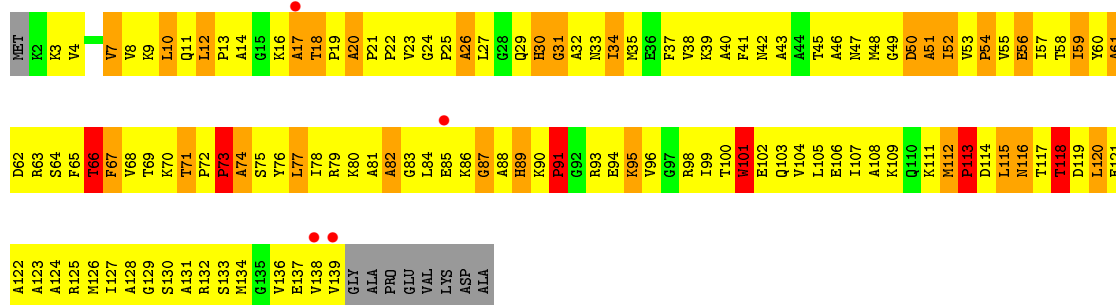
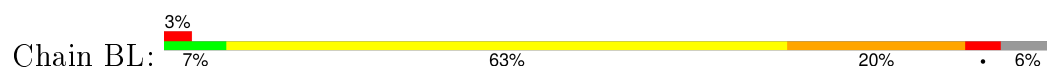


- Molecule 32: 50S ribosomal protein L9

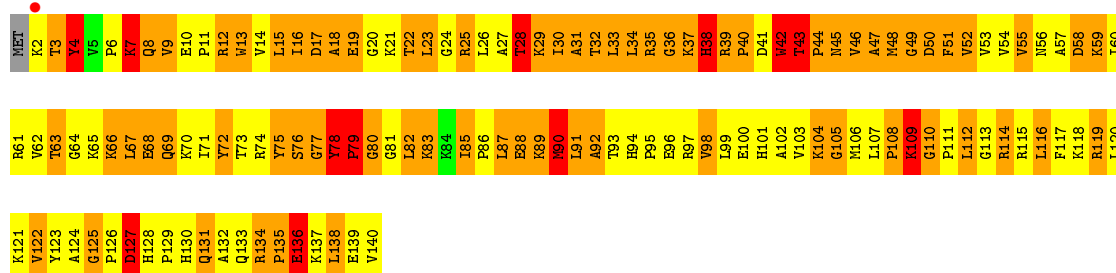




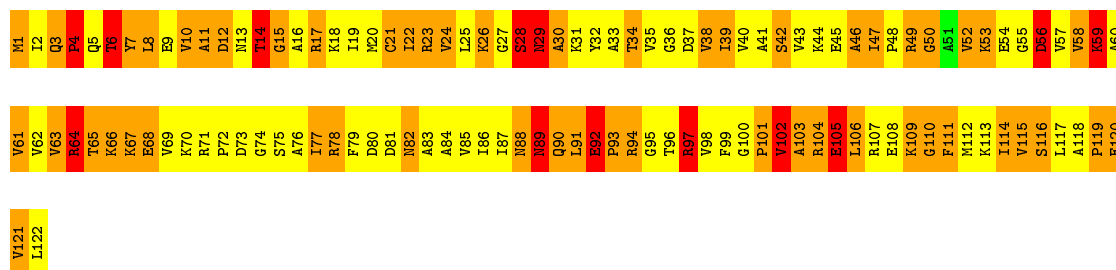
• Molecule 33: 50S ribosomal protein L11



• Molecule 34: 50S ribosomal protein L13

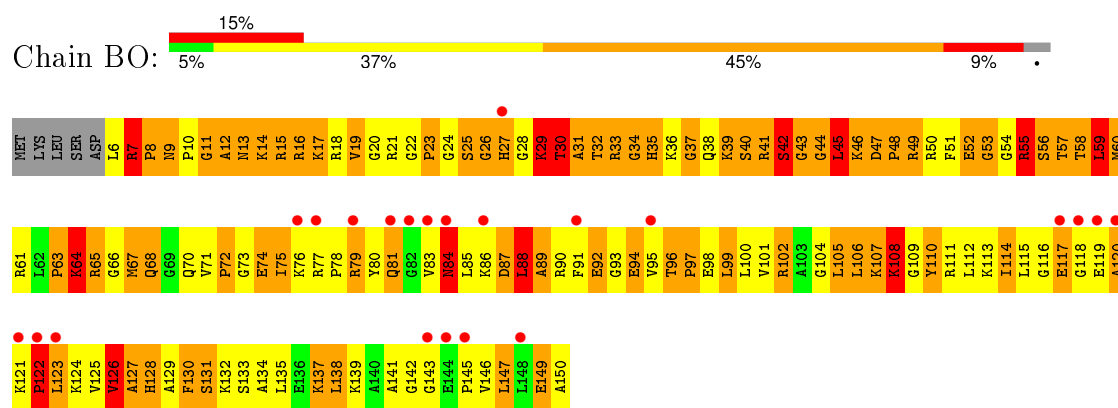


• Molecule 35: 50S ribosomal protein L14

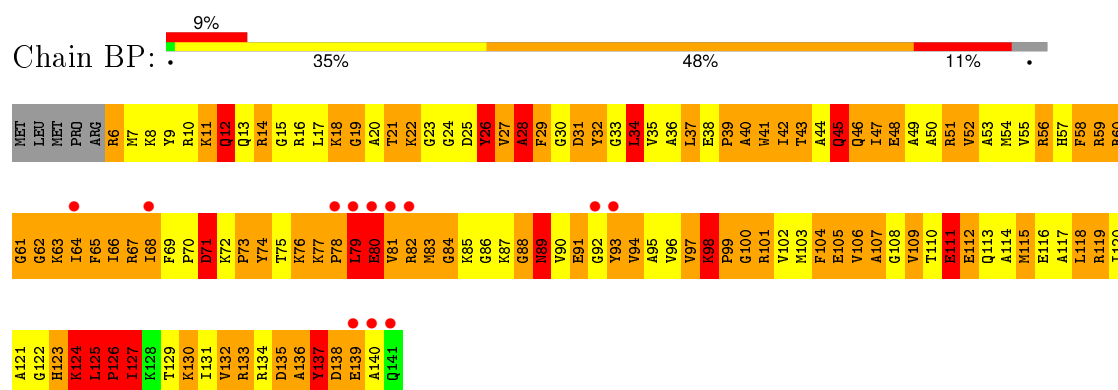


• Molecule 36: 50S ribosomal protein L15

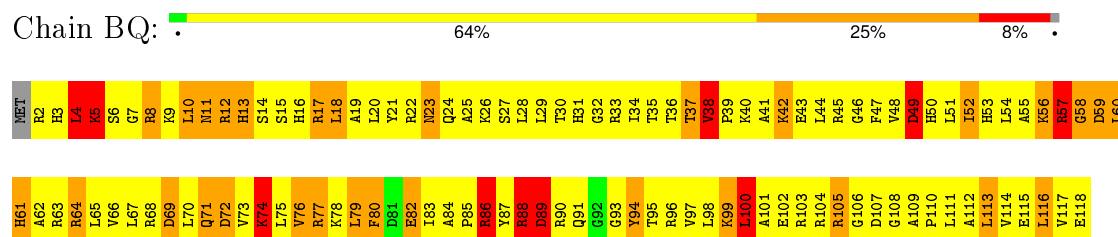




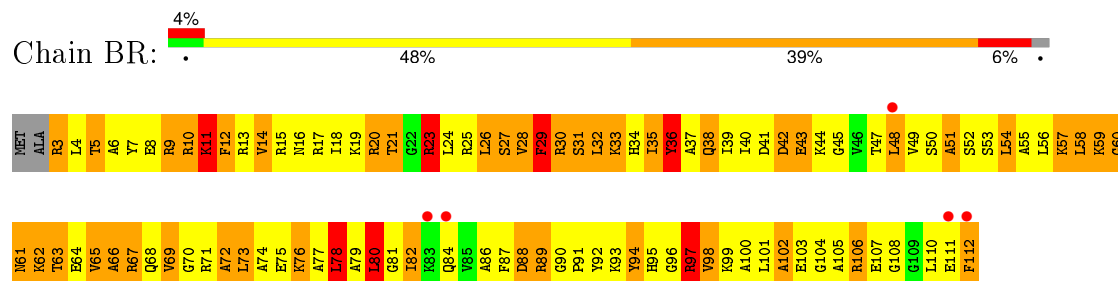
• Molecule 37: 50S ribosomal protein L16



• Molecule 38: 50S ribosomal protein L17

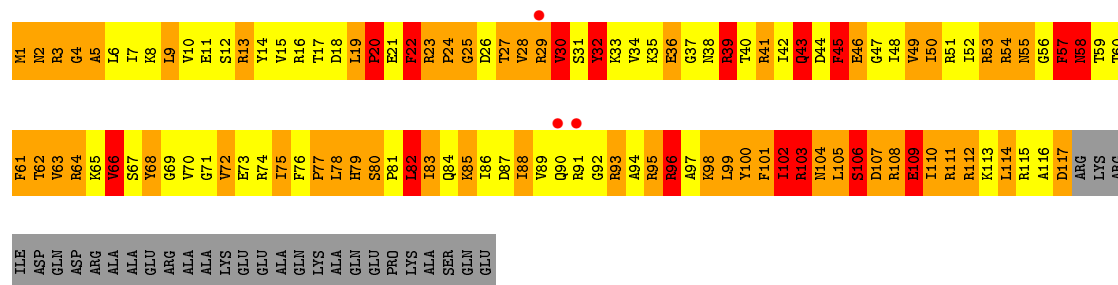


• Molecule 39: 50S ribosomal protein L18

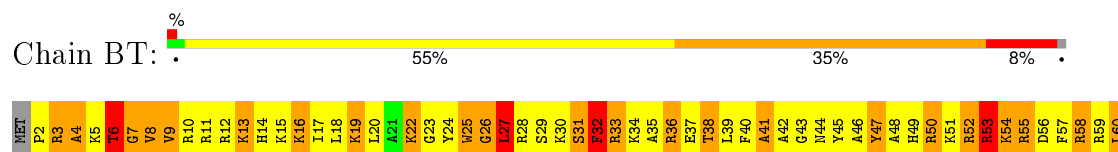


• Molecule 40: 50S ribosomal protein L19

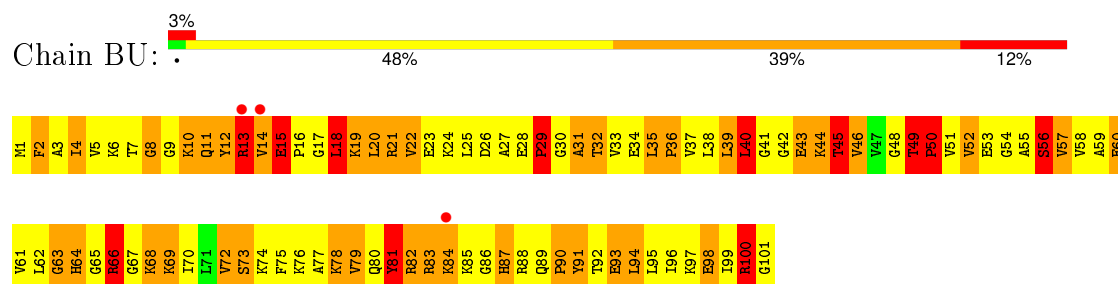




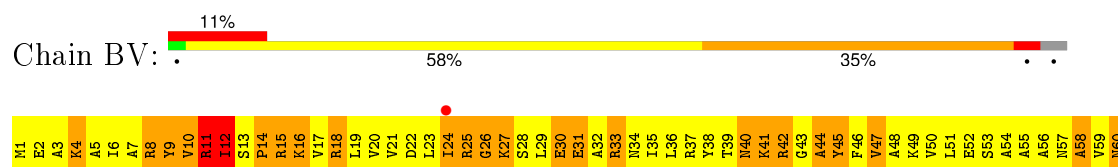
- Molecule 41: 50S ribosomal protein L20



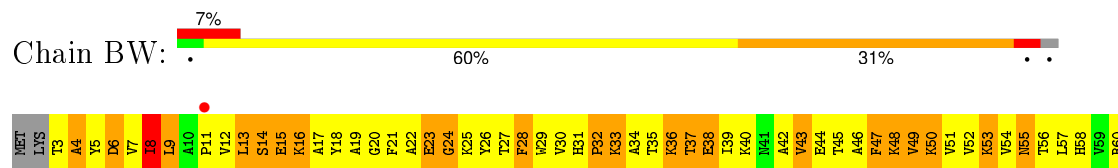
- Molecule 42: 50S ribosomal protein L21



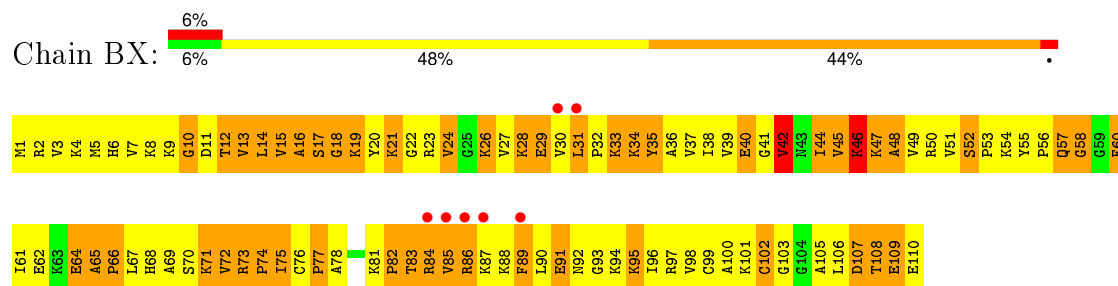
- Molecule 43: 50S ribosomal protein L22



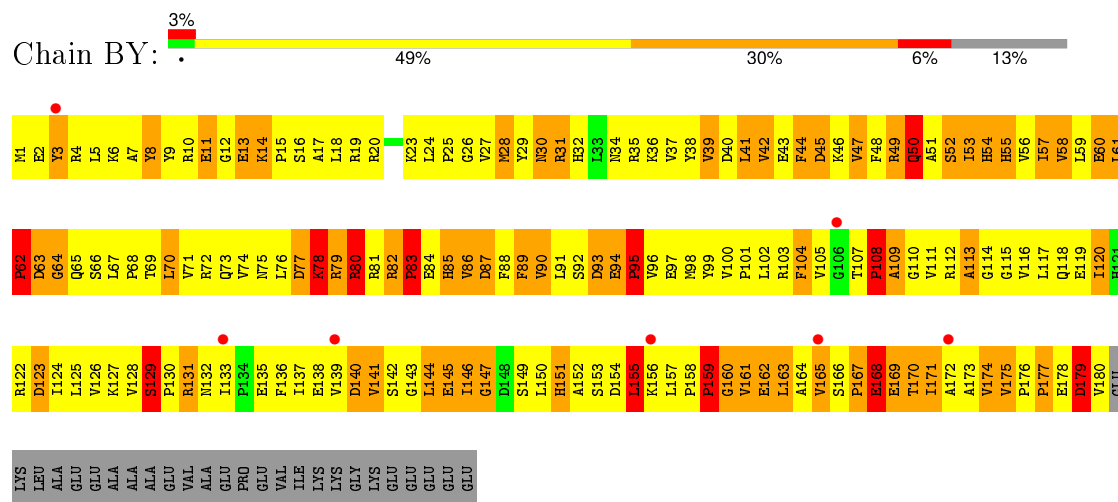
- Molecule 44: 50S ribosomal protein L23



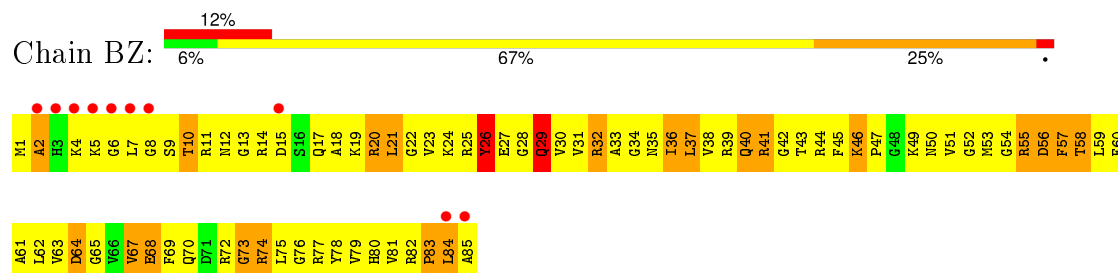
- Molecule 45: 50S ribosomal protein L24



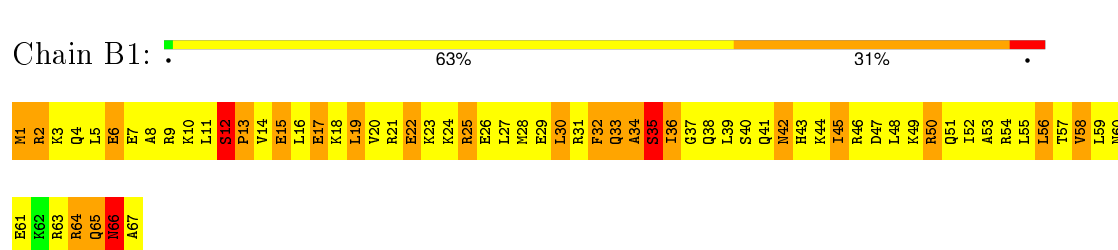
- Molecule 46: 50S ribosomal protein L25



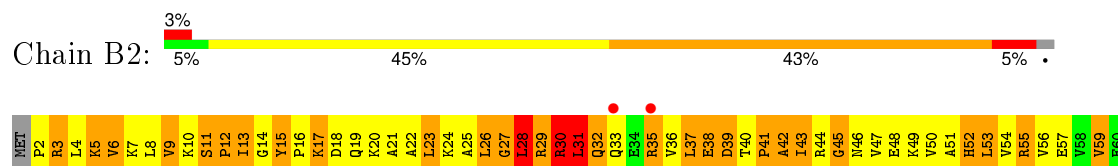
- Molecule 47: Ribosomal protein L27



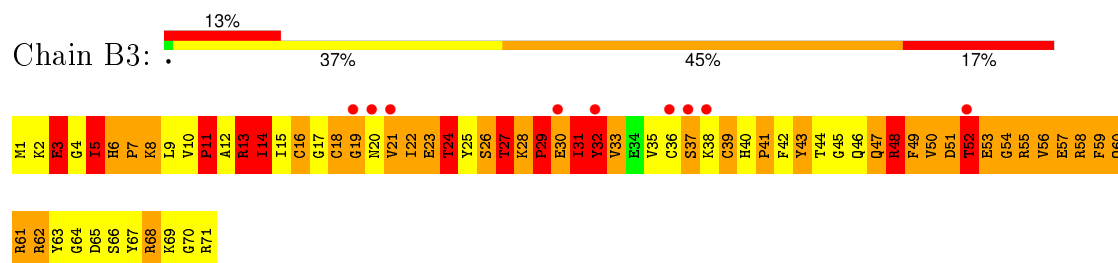
- Molecule 48: 50S ribosomal protein L29



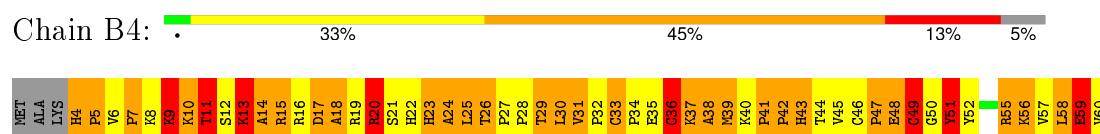
- Molecule 49: 50S ribosomal protein L30



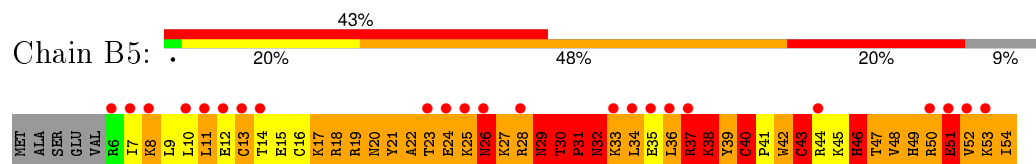
- Molecule 50: 50S ribosomal protein L31



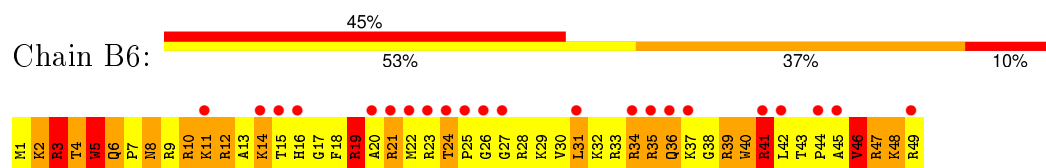
- Molecule 51: 50S ribosomal protein L32



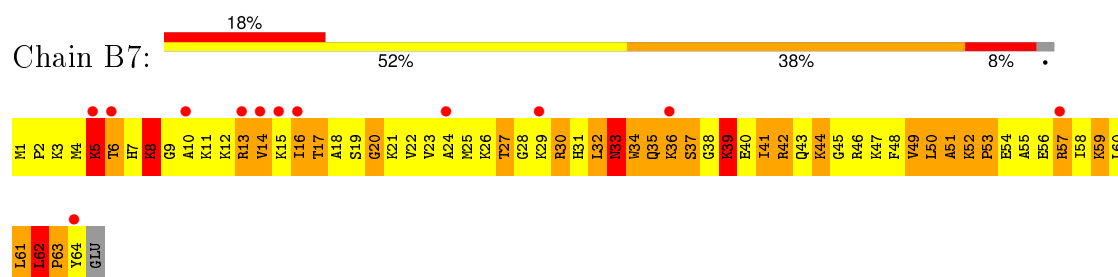
- Molecule 52: 50S ribosomal protein L33



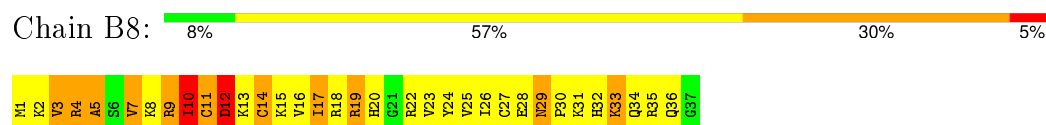
- Molecule 53: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L35



- Molecule 55: 50S ribosomal protein L36



## 4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	508.54Å 508.54Å 806.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 5.50 430.13 – 4.98	Depositor EDS
% Data completeness (in resolution range)	96.7 (300.00-5.50) 99.1 (430.13-4.98)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.00 (at 4.88Å)	Xtriage
Refinement program	CNS	Depositor
R, $R_{free}$	0.243 , 0.326 0.280 , 0.327	Depositor DCC
$R_{free}$ test set	8057 reflections (5.04%)	DCC
Wilson B-factor (Å <sup>2</sup> )	108.9	Xtriage
Anisotropy	0.045	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.07 , 78.4	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.53$ , $\langle L^2 \rangle = 0.37$	Xtriage
Outliers	1 of 226745 reflections (0.000%)	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	151691	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	226.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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	0.87	32/36438 (0.1%)	1.08	147/56869 (0.3%)
2	A1	0.67	1/1133 (0.1%)	0.93	2/1753 (0.1%)
3	AB	0.70	1/1813 (0.1%)	1.02	9/2823 (0.3%)
3	AC	0.98	2/1813 (0.1%)	0.93	2/2823 (0.1%)
3	AD	0.69	1/1813 (0.1%)	0.92	2/2823 (0.1%)
4	AE	0.64	0/1935	1.00	4/2609 (0.2%)
5	AF	0.55	0/1636	0.92	4/2205 (0.2%)
6	AG	0.64	1/1733 (0.1%)	0.98	3/2318 (0.1%)
7	AH	0.63	0/1162	1.01	3/1564 (0.2%)
8	AI	0.60	0/856	0.95	0/1154
9	AJ	0.57	0/1276	0.90	3/1709 (0.2%)
10	AK	0.62	0/1136	1.01	3/1527 (0.2%)
11	AL	0.54	0/1029	0.83	0/1379
12	AM	0.48	0/807	0.89	1/1085 (0.1%)
13	AN	0.62	0/900	0.98	0/1213
14	AO	0.60	0/986	1.00	3/1320 (0.2%)
15	AP	0.50	0/1008	0.91	2/1347 (0.1%)
16	AQ	0.55	0/501	0.96	1/664 (0.2%)
17	AR	0.62	0/745	0.95	0/992
18	AS	0.62	0/716	0.95	1/963 (0.1%)
19	AT	0.68	1/870 (0.1%)	0.99	2/1159 (0.2%)
20	AU	0.59	0/603	1.01	1/799 (0.1%)
21	AV	0.51	0/661	0.92	0/890
22	AW	0.65	0/765	1.00	2/1007 (0.2%)
23	AX	0.45	0/212	0.80	0/277
24	BA	0.98	108/69685 (0.2%)	1.10	361/108786 (0.3%)
25	BB	0.83	4/2954 (0.1%)	0.99	7/4606 (0.2%)
26	BC	0.54	0/1775	0.86	0/2393
27	BD	0.72	2/2174 (0.1%)	1.19	12/2927 (0.4%)
28	BE	0.75	0/1611	1.16	13/2171 (0.6%)
29	BF	0.64	0/1660	1.03	4/2247 (0.2%)
30	BG	0.62	0/1507	1.06	4/2027 (0.2%)
31	BH	0.59	0/1354	0.99	4/1831 (0.2%)
32	BK	0.60	0/1170	1.02	4/1581 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
33	BL	0.61	0/1044	0.94	1/1415 (0.1%)
34	BM	0.77	1/1140 (0.1%)	1.16	8/1537 (0.5%)
35	BN	0.92	1/942 (0.1%)	1.31	10/1268 (0.8%)
36	BO	0.71	0/1123	1.12	5/1493 (0.3%)
37	BP	0.72	0/1100	1.19	8/1470 (0.5%)
38	BQ	0.70	0/974	1.06	2/1302 (0.2%)
39	BR	0.72	0/887	1.06	4/1180 (0.3%)
40	BS	0.85	0/990	1.31	9/1325 (0.7%)
41	BT	0.76	0/982	1.08	0/1306
42	BU	0.87	1/790 (0.1%)	1.28	9/1057 (0.9%)
43	BV	0.66	0/886	1.04	1/1189 (0.1%)
44	BW	0.57	0/756	0.93	0/1015
45	BX	0.54	0/857	1.04	2/1142 (0.2%)
46	BY	0.66	0/1467	1.11	7/1992 (0.4%)
47	BZ	0.65	0/679	1.04	1/902 (0.1%)
48	B1	0.59	0/569	0.88	0/751
49	B2	0.59	0/474	1.09	2/635 (0.3%)
50	B3	0.84	1/594 (0.2%)	1.31	8/795 (1.0%)
51	B4	0.71	0/459	1.16	3/621 (0.5%)
52	B5	0.85	1/433 (0.2%)	1.36	5/576 (0.9%)
53	B6	0.73	0/438	1.01	0/575
54	B7	0.60	0/523	1.14	5/690 (0.7%)
55	B8	0.59	0/310	1.08	1/407 (0.2%)
All	All	0.86	158/164854 (0.1%)	1.07	695/246484 (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	175
2	A1	0	3
3	AB	0	6
3	AC	0	8
3	AD	0	8
6	AG	0	1
8	AI	0	1
13	AN	0	1
15	AP	0	1
16	AQ	0	1
24	BA	0	463

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Mol	Chain	#Chirality outliers	#Planarity outliers
25	BB	0	18
26	BC	0	1
28	BE	0	1
34	BM	0	1
37	BP	0	1
40	BS	0	1
42	BU	0	1
50	B3	0	1
51	B4	0	1
All	All	0	694

All (158) 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	2500	U	C4-O4	18.52	1.38	1.23
24	BA	2500	U	O3'-P	-15.17	1.43	1.61
24	BA	607	U	N3-C4	-14.53	1.25	1.38
24	BA	2448	A	O3'-P	-14.42	1.43	1.61
24	BA	621	A	C6-N6	14.11	1.45	1.33
24	BA	1240	U	O3'-P	-13.46	1.45	1.61
24	BA	2756	U	O3'-P	13.33	1.77	1.61
24	BA	607	U	C2-N3	-13.15	1.28	1.37
24	BA	1993	U	N1-C2	11.42	1.48	1.38
24	BA	607	U	C5-C6	-10.63	1.24	1.34
24	BA	2491	U	N1-C2	10.59	1.48	1.38
24	BA	1202	C	O3'-P	-9.82	1.49	1.61
1	AA	1064	G	C5-C6	-9.61	1.32	1.42
1	AA	530	G	N9-C4	-9.56	1.30	1.38
24	BA	2499	C	O3'-P	9.37	1.72	1.61
24	BA	2755	C	O3'-P	8.84	1.71	1.61
24	BA	607	U	C4-O4	-8.62	1.16	1.23
24	BA	2460	U	N1-C2	8.58	1.46	1.38
1	AA	1493	A	C5-C6	8.51	1.48	1.41
24	BA	1956	U	N1-C2	8.36	1.46	1.38
1	AA	1494	G	C5-C6	8.33	1.50	1.42
1	AA	1492	A	N9-C4	8.30	1.42	1.37
24	BA	2447	G	O3'-P	-7.81	1.51	1.61
24	BA	2035	G	N9-C4	7.79	1.44	1.38
1	AA	1064	G	C2-N3	7.76	1.39	1.32
34	BM	42	TRP	CB-CG	7.76	1.64	1.50
24	BA	1	G	OP3-P	-7.75	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	687	C	N1-C2	7.67	1.47	1.40
42	BU	81	TYR	CB-CG	7.56	1.62	1.51
24	BA	1204	A	O3'-P	7.50	1.70	1.61
24	BA	607	U	N1-C6	7.50	1.44	1.38
24	BA	775	G	N9-C4	7.47	1.44	1.38
25	BB	-1	A	OP3-P	-7.37	1.52	1.61
3	AB	1	G	OP3-P	-7.32	1.52	1.61
1	AA	974	A	C2-N3	7.28	1.40	1.33
1	AA	974	A	C6-N1	7.22	1.40	1.35
3	AD	1	G	OP3-P	-7.18	1.52	1.61
3	AC	1	G	OP3-P	-7.07	1.52	1.61
24	BA	607	U	C2-O2	-7.03	1.16	1.22
24	BA	2448	A	C5'-C4'	7.02	1.59	1.51
24	BA	1763	G	C6-O6	6.93	1.30	1.24
24	BA	1313	U	N1-C2	6.91	1.44	1.38
24	BA	621	A	N7-C5	-6.73	1.35	1.39
24	BA	2491	U	C2-N3	6.71	1.42	1.37
2	A1	3	U	OP3-P	-6.71	1.53	1.61
24	BA	1956	U	N3-C4	6.66	1.44	1.38
1	AA	1492	A	C5-C6	6.62	1.47	1.41
24	BA	688	U	N1-C2	6.62	1.44	1.38
24	BA	726	G	N9-C4	6.61	1.43	1.38
1	AA	37	U	C4-O4	-6.56	1.18	1.23
24	BA	2522	U	N1-C2	6.46	1.44	1.38
24	BA	640	C	N1-C2	-6.46	1.33	1.40
1	AA	1493	A	C5-C4	6.45	1.43	1.38
24	BA	1240	U	N3-C4	-6.36	1.32	1.38
1	AA	132	C	N1-C2	-6.31	1.33	1.40
24	BA	1917	U	N1-C2	-6.30	1.32	1.38
24	BA	1785	A	C6-N1	-6.30	1.31	1.35
24	BA	2460	U	C4-O4	6.29	1.28	1.23
1	AA	1064	G	C5-C4	-6.24	1.33	1.38
1	AA	1064	G	N1-C2	6.24	1.42	1.37
24	BA	2588	G	C6-N1	-6.22	1.35	1.39
1	AA	397	A	C5-C6	-6.18	1.35	1.41
24	BA	1775	U	C5-C6	-6.16	1.28	1.34
24	BA	930	U	N1-C2	-6.10	1.33	1.38
24	BA	1994	C	C2-N3	-6.08	1.30	1.35
1	AA	1494	G	C3'-O3'	6.03	1.50	1.42
1	AA	974	A	N9-C4	6.02	1.41	1.37
24	BA	1786	A	N9-C4	6.02	1.41	1.37
24	BA	1674	G	N9-C4	-6.00	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1303	G	C5-C6	5.98	1.48	1.42
24	BA	1993	U	C2-N3	5.96	1.42	1.37
24	BA	621	A	C5-C4	5.91	1.42	1.38
1	AA	1492	A	C5-C4	5.90	1.42	1.38
24	BA	1626	G	C5'-C4'	5.86	1.58	1.51
1	AA	579	G	C3'-O3'	5.86	1.50	1.42
25	BB	16	G	N9-C4	-5.83	1.33	1.38
1	AA	196	A	O3'-P	-5.80	1.54	1.61
24	BA	1917	U	C4-C5	-5.80	1.38	1.43
25	BB	72	G	N9-C4	5.74	1.42	1.38
19	AT	21	VAL	CA-CB	-5.74	1.42	1.54
24	BA	2073	C	C2-O2	-5.73	1.19	1.24
24	BA	2195	C	C3'-O3'	5.72	1.50	1.42
24	BA	2548	G	C2-N2	-5.71	1.28	1.34
1	AA	1492	A	C6-N6	5.68	1.38	1.33
1	AA	579	G	O3'-P	5.67	1.68	1.61
24	BA	775	G	C2-N3	5.67	1.37	1.32
1	AA	173	U	O3'-P	5.64	1.68	1.61
24	BA	1786	A	C2-N3	5.62	1.38	1.33
1	AA	37	U	C5-C6	-5.61	1.29	1.34
24	BA	2063	C	N1-C2	5.60	1.45	1.40
24	BA	2460	U	C2-N3	5.59	1.41	1.37
24	BA	2460	U	N3-C4	5.59	1.43	1.38
1	AA	309	G	N9-C4	-5.59	1.33	1.38
24	BA	2445	G	C6-O6	-5.56	1.19	1.24
24	BA	860	U	C5-C6	-5.54	1.29	1.34
24	BA	1775	U	N1-C6	-5.54	1.32	1.38
1	AA	697	U	C2-N3	5.53	1.41	1.37
24	BA	2491	U	N3-C4	5.53	1.43	1.38
24	BA	2255	G	N1-C2	5.50	1.42	1.37
24	BA	717	G	N9-C4	-5.49	1.33	1.38
24	BA	270(V)	G	N9-C4	-5.48	1.33	1.38
1	AA	1493	A	N9-C8	5.46	1.42	1.37
24	BA	1359	A	C5-C6	-5.44	1.36	1.41
24	BA	2489	G	C6-O6	-5.43	1.19	1.24
24	BA	2852	G	N1-C2	-5.43	1.33	1.37
24	BA	860	U	N1-C6	-5.42	1.33	1.38
24	BA	916	G	N9-C4	5.41	1.42	1.38
1	AA	651	C	N1-C2	5.40	1.45	1.40
24	BA	1778	U	N1-C2	5.40	1.43	1.38
1	AA	697	U	N3-C4	5.37	1.43	1.38
27	BD	54	ARG	CG-CD	5.36	1.65	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1994	C	C5-C6	-5.36	1.30	1.34
24	BA	950	G	N9-C4	-5.35	1.33	1.38
24	BA	2358	G	N9-C4	-5.35	1.33	1.38
35	BN	105	GLU	CB-CG	5.34	1.62	1.52
24	BA	1468	C	N1-C2	-5.33	1.34	1.40
24	BA	2604	U	N3-C4	-5.33	1.33	1.38
24	BA	1938	A	O3'-P	5.32	1.67	1.61
24	BA	1956	U	C2-N3	5.32	1.41	1.37
24	BA	2620	C	C2-O2	-5.32	1.19	1.24
24	BA	1372	U	C5-C6	-5.31	1.29	1.34
25	BB	8	U	N1-C2	-5.30	1.33	1.38
24	BA	2334	G	N9-C4	5.29	1.42	1.38
24	BA	1785	A	C6-N6	-5.27	1.29	1.33
24	BA	2459	A	N9-C4	5.27	1.41	1.37
24	BA	1524	G	C2-N3	-5.27	1.28	1.32
24	BA	1917	U	C5-C6	-5.24	1.29	1.34
24	BA	1950	G	N1-C2	-5.24	1.33	1.37
24	BA	985	C	C2-O2	-5.23	1.19	1.24
24	BA	1426	G	N9-C4	-5.23	1.33	1.38
24	BA	2548	G	C6-N1	-5.22	1.35	1.39
24	BA	1951	U	N1-C2	5.22	1.43	1.38
24	BA	1524	G	N9-C4	-5.21	1.33	1.38
24	BA	2604	U	N1-C2	-5.20	1.33	1.38
52	B5	43	CYS	CB-SG	-5.19	1.73	1.81
24	BA	2560	C	C2-O2	-5.17	1.19	1.24
1	AA	592	G	N9-C4	5.15	1.42	1.38
1	AA	697	U	N1-C2	5.15	1.43	1.38
24	BA	2462	U	C4-O4	-5.14	1.19	1.23
24	BA	2593	U	N1-C2	-5.13	1.33	1.38
3	AC	1	G	P-O5'	5.12	1.64	1.59
24	BA	1516	U	N1-C2	-5.11	1.33	1.38
24	BA	1742	C	N1-C2	-5.10	1.35	1.40
24	BA	1778	U	C4-O4	-5.09	1.19	1.23
1	AA	114	U	N3-C4	-5.09	1.33	1.38
6	AG	12	CYS	CA-CB	5.08	1.65	1.53
24	BA	2461	C	C2-N3	-5.08	1.31	1.35
24	BA	1778	U	C2-N3	5.07	1.41	1.37
24	BA	2571	C	C2-O2	-5.07	1.19	1.24
24	BA	978	G	C2-N3	-5.06	1.28	1.32
27	BD	250	TRP	CB-CG	-5.06	1.41	1.50
24	BA	2553	G	C2-N2	-5.05	1.29	1.34
24	BA	1524	G	C6-N1	-5.04	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	2491	U	O4'-C1'	5.04	1.48	1.41
24	BA	2073	C	N1-C2	-5.03	1.35	1.40
50	B3	48	ARG	CG-CD	5.02	1.64	1.51
24	BA	1776	G	C6-O6	-5.02	1.19	1.24

All (695) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1064	G	N1-C2-N2	-71.65	51.71	116.20
1	AA	1064	G	N3-C2-N2	57.72	160.30	119.90
24	BA	1203	G	P-O3'-C3'	27.70	152.94	119.70
24	BA	2448	A	C5'-C4'-O4'	-27.31	76.33	109.10
1	AA	1064	G	N1-C2-N3	-25.51	108.59	123.90
3	AB	18	G	OP2-P-O3'	14.85	137.87	105.20
1	AA	1064	G	C2-N3-C4	14.60	119.20	111.90
24	BA	1204	A	N9-C1'-C2'	14.59	132.97	114.00
24	BA	607	U	C5-C6-N1	-12.65	116.38	122.70
1	AA	172	A	OP1-P-O3'	12.61	132.95	105.20
24	BA	2384	G	N9-C1'-C2'	12.21	129.87	114.00
3	AB	19	G	O3'-P-O5'	-11.58	82.00	104.00
1	AA	973	G	O3'-P-O5'	11.50	125.85	104.00
1	AA	1064	G	C6-N1-C2	11.38	131.93	125.10
24	BA	2459	A	N9-C1'-C2'	11.34	128.74	114.00
24	BA	2500	U	N3-C4-O4	11.19	127.23	119.40
1	AA	173	U	P-O3'-C3'	11.06	132.97	119.70
24	BA	2500	U	C5-C4-O4	-10.84	119.39	125.90
24	BA	2446	G	P-O3'-C3'	10.71	132.56	119.70
24	BA	1800	C	N1-C1'-C2'	-10.70	100.09	114.00
24	BA	2490	G	N9-C1'-C2'	10.65	127.85	114.00
40	BS	66	VAL	N-CA-C	-10.56	82.48	111.00
24	BA	1938	A	N9-C1'-C2'	10.42	127.54	114.00
24	BA	1203	G	O3'-P-O5'	10.04	123.07	104.00
24	BA	607	U	N3-C4-O4	-9.91	112.46	119.40
24	BA	1992	G	N9-C1'-C2'	9.89	126.85	114.00
24	BA	1240	U	P-O3'-C3'	9.87	131.54	119.70
1	AA	88	C	O4'-C1'-N1	9.87	116.09	108.20
24	BA	2501	C	P-O3'-C3'	-9.86	107.86	119.70
1	AA	974	A	N9-C1'-C2'	9.78	126.72	114.00
24	BA	1809	A	O4'-C1'-N9	9.74	116.00	108.20
24	BA	2779	U	N1-C1'-C2'	-9.66	101.38	112.00
24	BA	1205	U	O4'-C1'-N1	9.64	115.91	108.20
24	BA	2460	U	N1-C1'-C2'	9.64	126.53	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2581	G	N9-C1'-C2'	9.63	126.51	114.00
24	BA	2522	U	N1-C1'-C2'	9.61	126.49	114.00
1	AA	727	G	N9-C1'-C2'	-9.48	101.57	112.00
24	BA	2032	G	N9-C1'-C2'	9.46	126.29	114.00
1	AA	37	U	C5-C4-O4	-9.44	120.24	125.90
24	BA	801	G	N9-C1'-C2'	9.43	126.26	114.00
3	AB	18	G	OP1-P-O3'	-9.42	84.47	105.20
24	BA	1625	C	N1-C1'-C2'	9.41	126.23	114.00
24	BA	2755	C	OP1-P-O3'	-9.38	84.55	105.20
1	AA	793	U	N1-C1'-C2'	9.36	126.17	114.00
40	BS	29	ARG	N-CA-C	-9.35	85.77	111.00
52	B5	24	GLU	N-CA-C	9.33	136.19	111.00
24	BA	138	G	N9-C1'-C2'	-9.29	101.78	112.00
1	AA	1494	G	N9-C1'-C2'	9.29	126.08	114.00
24	BA	776	G	N9-C1'-C2'	9.28	126.06	114.00
24	BA	974(A)	C	N1-C1'-C2'	9.28	126.06	114.00
1	AA	1528	U	N1-C1'-C2'	9.21	125.97	114.00
5	AF	48	TYR	N-CA-C	-9.19	86.17	111.00
24	BA	1363	C	N1-C1'-C2'	-9.13	101.95	112.00
25	BB	119	A	N9-C1'-C2'	-9.10	101.99	112.00
24	BA	2756	U	P-O3'-C3'	9.09	130.60	119.70
24	BA	978	G	O4'-C1'-N9	9.01	115.41	108.20
24	BA	2459	A	C4-N9-C1'	8.96	142.42	126.30
24	BA	199	A	N9-C1'-C2'	8.94	125.62	114.00
24	BA	607	U	N3-C2-O2	-8.93	115.95	122.20
3	AB	18	G	P-O3'-C3'	-8.89	109.03	119.70
1	AA	397	A	C4-N9-C1'	8.87	142.26	126.30
24	BA	280	C	N1-C1'-C2'	8.86	125.52	114.00
24	BA	1951	U	N1-C1'-C2'	8.86	125.51	114.00
24	BA	2756	U	N1-C1'-C2'	8.76	125.39	114.00
1	AA	1133	G	N9-C1'-C2'	-8.74	102.38	112.00
24	BA	1939	U	O5'-P-OP1	-8.73	97.85	105.70
24	BA	1313	U	N1-C1'-C2'	8.64	125.23	114.00
1	AA	397	A	C8-N9-C1'	-8.64	112.16	127.70
24	BA	1786	A	C5-C6-N6	-8.58	116.84	123.70
24	BA	2459	A	C8-N9-C1'	-8.53	112.34	127.70
24	BA	1240	U	O3'-P-O5'	8.48	120.11	104.00
52	B5	39	TYR	N-CA-C	8.47	133.86	111.00
24	BA	621	A	N9-C1'-C2'	-8.46	102.70	112.00
24	BA	2501	C	O3'-P-O5'	8.45	120.05	104.00
24	BA	2755	C	OP2-P-O3'	8.45	123.78	105.20
35	BN	74	GLY	N-CA-C	-8.38	92.15	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	974	A	O3'-P-O5'	8.36	119.87	104.00
1	AA	451	A	N9-C1'-C2'	8.35	124.86	114.00
24	BA	1970	A	O4'-C1'-N9	8.28	114.82	108.20
24	BA	1489	U	O4'-C1'-N1	8.24	114.79	108.20
15	AP	81	LEU	CA-CB-CG	8.21	134.19	115.30
27	BD	63	ARG	N-CA-C	8.18	133.07	111.00
24	BA	1455	G	N9-C1'-C2'	-8.12	103.07	112.00
24	BA	1498	C	N1-C1'-C2'	8.08	124.51	114.00
1	AA	530	G	C4-N9-C1'	-8.07	116.01	126.50
24	BA	775	G	N9-C1'-C2'	8.02	124.42	114.00
24	BA	2051	A	N9-C1'-C2'	7.99	124.38	114.00
24	BA	730	C	N1-C1'-C2'	7.96	124.34	114.00
24	BA	2491	U	C2'-C3'-O3'	7.92	126.93	109.50
24	BA	2491	U	C5-C4-O4	-7.92	121.15	125.90
3	AB	25	C	N1-C1'-C2'	-7.91	103.30	112.00
24	BA	1778	U	C5-C4-O4	-7.84	121.20	125.90
24	BA	2491	U	O4'-C4'-C3'	-7.83	96.17	104.00
1	AA	792	A	N9-C1'-C2'	7.82	124.17	114.00
24	BA	1052	C	O4'-C1'-N1	7.79	114.44	108.20
1	AA	974	A	C5-C6-N6	-7.75	117.50	123.70
36	BO	45	LEU	CA-CB-CG	-7.74	97.49	115.30
24	BA	2076	U	N1-C1'-C2'	7.70	124.01	114.00
35	BN	15	GLY	N-CA-C	-7.64	94.00	113.10
29	BF	79	GLY	N-CA-C	-7.62	94.04	113.10
24	BA	1667	G	O4'-C1'-N9	7.62	114.30	108.20
24	BA	2491	U	O4'-C1'-C2'	-7.62	98.18	105.80
27	BD	251	GLY	N-CA-C	-7.60	94.10	113.10
1	AA	1166	G	N9-C1'-C2'	-7.60	103.64	112.00
24	BA	196	A	N9-C1'-C2'	7.59	123.87	114.00
24	BA	2035	G	N9-C1'-C2'	7.59	123.86	114.00
24	BA	1189	A	N9-C1'-C2'	-7.54	103.70	112.00
30	BG	95	ARG	N-CA-C	7.53	131.32	111.00
24	BA	607	U	C5-C4-O4	-7.52	121.39	125.90
1	AA	1054	C	N1-C1'-C2'	-7.51	103.74	112.00
24	BA	1786	A	C6-N1-C2	-7.50	114.10	118.60
51	B4	36	CYS	CA-CB-SG	7.49	127.47	114.00
1	AA	457	C	N1-C1'-C2'	-7.43	103.83	112.00
24	BA	2587	A	N9-C1'-C2'	7.43	123.66	114.00
24	BA	1203	G	OP2-P-O3'	-7.36	89.00	105.20
46	BY	77	ASP	N-CA-C	7.36	130.87	111.00
27	BD	49	ILE	N-CA-C	-7.35	91.14	111.00
1	AA	974	A	C6-N1-C2	-7.35	114.19	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BU	50	PRO	N-CA-C	7.35	131.20	112.10
24	BA	2510	C	N1-C1'-C2'	-7.33	103.94	112.00
24	BA	184	C	N1-C1'-C2'	7.29	123.47	114.00
24	BA	2422	A	N9-C1'-C2'	7.29	123.47	114.00
1	AA	563	A	N9-C1'-C2'	7.28	123.46	114.00
24	BA	1786	A	C4-N9-C1'	7.28	139.40	126.30
24	BA	1537	C	N1-C1'-C2'	-7.27	104.00	112.00
1	AA	790	A	N9-C1'-C2'	-7.26	104.01	112.00
27	BD	45	ASN	N-CA-C	-7.25	91.44	111.00
1	AA	397	A	C5-C6-N6	-7.22	117.92	123.70
24	BA	1778	U	C2-N3-C4	-7.20	122.68	127.00
3	AB	36	A	N9-C1'-C2'	-7.20	104.08	112.00
24	BA	265	A	N1-C6-N6	7.19	122.92	118.60
24	BA	2259	G	N9-C1'-C2'	-7.19	104.09	112.00
22	AW	36	LEU	CA-CB-CG	-7.18	98.78	115.30
52	B5	26	ASN	N-CA-C	7.16	130.33	111.00
32	BK	144	VAL	N-CA-C	-7.13	91.74	111.00
24	BA	2582	G	O4'-C1'-N9	-7.12	102.50	108.20
24	BA	1372	U	C5-C4-O4	-7.08	121.65	125.90
24	BA	1604	C	N1-C1'-C2'	7.06	123.18	114.00
24	BA	2491	U	C3'-C2'-C1'	-7.06	95.86	101.50
24	BA	2448	A	O5'-C5'-C4'	-7.05	98.31	111.70
1	AA	367	U	N1-C1'-C2'	7.04	123.16	114.00
24	BA	654	A	N9-C1'-C2'	-7.03	104.27	112.00
24	BA	1205	U	C5'-C4'-O4'	7.02	117.53	109.10
3	AB	36	A	O4'-C1'-N9	7.00	113.80	108.20
24	BA	1786	A	C8-N9-C1'	-6.99	115.12	127.70
1	AA	530	G	C5'-C4'-O4'	-6.99	100.72	109.10
24	BA	1792	G	N9-C1'-C2'	-6.98	104.32	112.00
24	BA	2459	A	C6-N1-C2	-6.98	114.41	118.60
24	BA	2602	A	N9-C1'-C2'	6.96	123.06	114.00
24	BA	1205	U	C1'-O4'-C4'	-6.95	104.34	109.90
24	BA	620	G	N9-C1'-C2'	6.95	123.03	114.00
27	BD	16	MET	N-CA-C	-6.94	92.25	111.00
34	BM	36	GLY	N-CA-C	-6.94	95.75	113.10
24	BA	1971	A	N9-C1'-C2'	-6.93	104.38	112.00
22	AW	24	LEU	CA-CB-CG	6.92	131.21	115.30
24	BA	282	A	N9-C1'-C2'	-6.92	104.39	112.00
24	BA	911	A	N9-C1'-C2'	6.92	123.00	114.00
24	BA	554	U	N1-C1'-C2'	6.91	122.99	114.00
24	BA	1699	G	N9-C1'-C2'	6.91	122.98	114.00
24	BA	1240	U	OP2-P-O3'	-6.91	90.00	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	527	C	N1-C1'-C2'	6.90	122.97	114.00
24	BA	1694	C	N1-C1'-C2'	6.90	122.97	114.00
42	BU	63	GLY	N-CA-C	-6.89	95.88	113.10
42	BU	94	LEU	N-CA-C	-6.88	92.41	111.00
1	AA	1402	C	N1-C1'-C2'	-6.88	104.43	112.00
1	AA	1393	U	N1-C1'-C2'	-6.87	104.44	112.00
24	BA	1359	A	N9-C1'-C2'	-6.87	104.44	112.00
24	BA	2346	A	O4'-C1'-N9	6.87	113.70	108.20
28	BE	6	GLY	N-CA-C	-6.87	95.93	113.10
24	BA	607	U	N3-C4-C5	6.87	118.72	114.60
24	BA	2596	U	N1-C1'-C2'	-6.86	104.45	112.00
1	AA	1498	U	N1-C1'-C2'	6.85	122.91	114.00
51	B4	13	LYS	N-CA-C	-6.84	92.54	111.00
24	BA	607	U	N1-C2-O2	6.82	127.57	122.80
24	BA	2501	C	OP2-P-O3'	-6.80	90.23	105.20
1	AA	1494	G	O5'-P-OP2	6.78	118.84	110.70
1	AA	197	A	P-O3'-C3'	-6.78	111.56	119.70
24	BA	534	U	O4'-C1'-N1	6.78	113.62	108.20
24	BA	387	U	N1-C1'-C2'	6.77	122.80	114.00
24	BA	865	C	N1-C1'-C2'	6.75	122.77	114.00
1	AA	530	G	C8-N9-C1'	6.74	135.76	127.00
1	AA	885	G	N9-C1'-C2'	-6.74	104.59	112.00
1	AA	1123	A	N9-C1'-C2'	6.73	122.75	114.00
24	BA	762	U	N1-C1'-C2'	6.71	122.73	114.00
24	BA	1775	U	C5-C4-O4	-6.70	121.88	125.90
24	BA	2447	G	N9-C1'-C2'	6.69	122.70	114.00
24	BA	2498	C	C5'-C4'-C3'	-6.68	105.31	116.00
24	BA	650	C	O4'-C1'-N1	6.67	113.54	108.20
1	AA	813	U	N1-C1'-C2'	6.66	122.66	114.00
1	AA	1279	A	N9-C1'-C2'	6.65	122.65	114.00
50	B3	32	TYR	N-CA-C	6.65	128.95	111.00
1	AA	531	U	N1-C1'-C2'	6.65	122.64	114.00
39	BR	63	THR	N-CA-C	-6.64	93.07	111.00
24	BA	1059	G	N9-C1'-C2'	-6.64	104.69	112.00
24	BA	615	G	N9-C1'-C2'	6.64	122.63	114.00
24	BA	1635	G	C5'-C4'-C3'	-6.63	105.39	116.00
1	AA	12	U	O4'-C1'-N1	6.63	113.50	108.20
1	AA	397	A	O4'-C1'-N9	-6.62	102.90	108.20
24	BA	1938	A	C4-N9-C1'	6.62	138.21	126.30
24	BA	1626	G	C5'-C4'-O4'	6.62	117.04	109.10
1	AA	1492	A	N9-C1'-C2'	6.61	122.59	114.00
1	AA	47	C	N1-C1'-C2'	6.61	122.59	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2073	C	O4'-C1'-N1	-6.61	102.91	108.20
3	AB	19	G	OP2-P-O3'	6.61	119.73	105.20
24	BA	1444(A)	A	N9-C1'-C2'	6.61	122.59	114.00
46	BY	52	SER	N-CA-C	-6.60	93.18	111.00
54	B7	6	THR	N-CA-C	-6.60	93.19	111.00
1	AA	1502	A	N9-C1'-C2'	6.59	122.57	114.00
24	BA	1247	A	N9-C1'-C2'	6.59	122.57	114.00
1	AA	974	A	N1-C6-N6	6.59	122.55	118.60
36	BO	30	THR	N-CA-C	6.58	128.77	111.00
24	BA	1143	A	N9-C1'-C2'	6.58	122.55	114.00
1	AA	397	A	N9-C1'-C2'	6.57	122.54	114.00
24	BA	431	U	N1-C1'-C2'	-6.56	104.78	112.00
24	BA	1822	G	N9-C1'-C2'	-6.56	104.78	112.00
24	BA	703	U	O4'-C1'-N1	6.56	113.45	108.20
27	BD	250	TRP	N-CA-C	6.55	128.70	111.00
25	BB	118	G	N9-C1'-C2'	-6.54	104.80	112.00
1	AA	1494	G	O4'-C1'-N9	6.54	113.43	108.20
24	BA	1955	U	N1-C1'-C2'	6.54	122.50	114.00
24	BA	2336	A	N9-C1'-C2'	6.54	122.50	114.00
1	AA	644	G	N9-C1'-C2'	-6.54	104.81	112.00
24	BA	1786	A	N1-C6-N6	6.52	122.51	118.60
24	BA	1667	G	C5'-C4'-C3'	6.51	126.42	116.00
24	BA	2447	G	OP2-P-O3'	6.51	119.52	105.20
27	BD	215	LEU	CA-CB-CG	-6.50	100.35	115.30
1	AA	172	A	O3'-P-O5'	-6.50	91.66	104.00
2	A1	35	U	N1-C1'-C2'	-6.50	104.86	112.00
24	BA	2320	A	N9-C1'-C2'	6.48	122.43	114.00
24	BA	1604	C	O4'-C1'-N1	6.47	113.37	108.20
24	BA	725	G	N9-C1'-C2'	6.46	122.40	114.00
37	BP	82	ARG	N-CA-C	-6.45	93.59	111.00
1	AA	1489	G	N9-C1'-C2'	-6.44	104.92	112.00
24	BA	1815	A	N9-C1'-C2'	6.44	122.37	114.00
24	BA	270(G)	C	O4'-C1'-N1	6.43	113.35	108.20
1	AA	82	U	N3-C4-O4	-6.42	114.91	119.40
1	AA	1193	G	N9-C1'-C2'	-6.40	104.96	112.00
40	BS	60	THR	N-CA-C	-6.40	93.72	111.00
1	AA	1341	U	N1-C1'-C2'	-6.39	104.98	112.00
1	AA	172	A	OP2-P-O3'	-6.38	91.17	105.20
24	BA	2196	C	N1-C1'-C2'	6.38	122.29	114.00
24	BA	2726	U	N1-C1'-C2'	6.37	122.28	114.00
1	AA	37	U	N3-C4-O4	-6.37	114.94	119.40
24	BA	265	A	C5-C6-N6	-6.36	118.61	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1367	A	N9-C1'-C2'	-6.36	105.00	112.00
1	AA	818	G	N9-C1'-C2'	6.36	122.27	114.00
1	AA	1100	C	N1-C1'-C2'	6.36	122.26	114.00
1	AA	1492	A	C5'-C4'-O4'	6.35	116.72	109.10
24	BA	1204	A	C4-N9-C1'	6.35	137.72	126.30
30	BG	42	GLY	N-CA-C	6.34	128.96	113.10
3	AC	1	G	OP1-P-OP2	-6.34	110.09	119.60
24	BA	2522	U	C2-N1-C1'	6.34	125.31	117.70
1	AA	397	A	N1-C6-N6	6.34	122.40	118.60
24	BA	2448	A	P-O3'-C3'	-6.32	112.12	119.70
52	B5	37	ARG	N-CA-C	6.32	128.05	111.00
1	AA	974	A	C4-N9-C1'	6.31	137.66	126.30
1	AA	1049	U	C2'-C3'-O3'	6.31	123.79	113.70
34	BM	51	PHE	N-CA-C	-6.30	93.98	111.00
42	BU	98	GLU	N-CA-C	6.29	127.98	111.00
24	BA	488	G	N9-C1'-C2'	-6.29	105.09	112.00
24	BA	607	U	C2-N1-C1'	-6.29	110.16	117.70
1	AA	760	G	N9-C1'-C2'	-6.28	105.09	112.00
24	BA	101	G	N9-C1'-C2'	6.28	122.16	114.00
24	BA	828	U	N1-C1'-C2'	6.28	122.16	114.00
24	BA	2665	A	C5-C6-N6	-6.28	118.68	123.70
6	AG	19	LEU	N-CA-C	-6.27	94.07	111.00
40	BS	43	GLN	N-CA-C	-6.27	94.08	111.00
24	BA	1941	C	O4'-C4'-C3'	-6.26	97.74	104.00
31	BH	111	HIS	N-CA-C	6.26	127.89	111.00
24	BA	1956	U	C2-N1-C1'	6.25	125.20	117.70
27	BD	94	LEU	N-CA-C	-6.25	94.13	111.00
37	BP	125	LEU	CA-CB-CG	-6.24	100.95	115.30
24	BA	265	A	C4-N9-C1'	6.23	137.52	126.30
34	BM	125	GLY	N-CA-C	-6.23	97.52	113.10
24	BA	1950	G	O4'-C1'-N9	6.23	113.18	108.20
24	BA	2460	U	C2-N1-C1'	6.22	125.17	117.70
36	BO	59	LEU	CA-CB-CG	6.21	129.59	115.30
1	AA	1298	C	N1-C1'-C2'	6.21	122.07	114.00
24	BA	1169	G	N9-C1'-C2'	-6.20	105.18	112.00
1	AA	372	C	N1-C1'-C2'	6.20	122.06	114.00
24	BA	67	U	N1-C2-O2	6.20	127.14	122.80
1	AA	528	C	N1-C1'-C2'	-6.18	105.20	112.00
24	BA	745	G	N9-C1'-C2'	6.18	122.04	114.00
3	AB	18	G	O3'-P-O5'	-6.18	92.26	104.00
24	BA	1559	G	O4'-C1'-N9	-6.18	103.26	108.20
24	BA	676	A	N9-C1'-C2'	6.17	122.02	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BP	28	ALA	N-CA-C	-6.16	94.36	111.00
27	BD	272	ALA	N-CA-C	6.16	127.62	111.00
1	AA	530	G	N3-C4-N9	-6.15	122.31	126.00
1	AA	1054	C	O4'-C4'-C3'	-6.15	97.85	104.00
54	B7	35	GLN	N-CA-C	-6.15	94.40	111.00
24	BA	2198	A	N9-C1'-C2'	6.14	121.98	114.00
24	BA	2835	A	N9-C1'-C2'	6.13	121.97	114.00
1	AA	173	U	O3'-P-O5'	-6.12	92.36	104.00
24	BA	494	G	N9-C1'-C2'	-6.12	105.27	112.00
28	BE	141	ILE	N-CA-C	6.11	127.50	111.00
24	BA	1626	G	O4'-C1'-N9	6.10	113.08	108.20
1	AA	191(B)	G	N9-C1'-C2'	-6.09	105.30	112.00
24	BA	739	G	O4'-C1'-N9	6.09	113.08	108.20
24	BA	741	G	C5'-C4'-C3'	6.09	125.75	116.00
24	BA	2478	A	N9-C1'-C2'	-6.09	105.30	112.00
24	BA	1418	G	N9-C1'-C2'	-6.09	105.30	112.00
1	AA	88	C	C1'-O4'-C4'	-6.09	105.03	109.90
1	AA	974	A	C8-N9-C1'	-6.09	116.74	127.70
24	BA	1786	A	C4-C5-C6	6.09	120.04	117.00
28	BE	5	LEU	N-CA-C	6.08	127.43	111.00
24	BA	1022	G	N9-C1'-C2'	6.08	121.91	114.00
24	BA	1324	G	N9-C1'-C2'	6.08	121.91	114.00
24	BA	2447	G	P-O3'-C3'	6.08	127.00	119.70
24	BA	562	U	N1-C1'-C2'	6.07	121.89	114.00
7	AH	83	GLU	N-CA-C	-6.06	94.63	111.00
24	BA	1161	C	N1-C1'-C2'	-6.06	105.34	112.00
24	BA	2092	U	N1-C1'-C2'	6.05	121.87	114.00
1	AA	1481	U	O4'-C1'-N1	6.04	113.03	108.20
1	AA	961	U	C5-C4-O4	-6.04	122.28	125.90
24	BA	621	A	C5-C6-N1	-6.03	114.68	117.70
1	AA	319	G	N9-C1'-C2'	-6.03	105.37	112.00
24	BA	1938	A	C8-N9-C1'	-6.03	116.85	127.70
24	BA	1809	A	C1'-O4'-C4'	-6.02	105.08	109.90
1	AA	973	G	OP1-P-O3'	-6.02	91.96	105.20
46	BY	147	GLY	N-CA-C	-6.02	98.05	113.10
24	BA	787	U	C5'-C4'-O4'	6.01	116.32	109.10
24	BA	1936	A	N9-C1'-C2'	6.01	121.82	114.00
32	BK	32	PRO	N-CA-C	-6.01	96.47	112.10
1	AA	397	A	C5'-C4'-C3'	-6.00	106.40	116.00
24	BA	1941	C	O4'-C1'-N1	5.99	112.99	108.20
24	BA	1626	G	N9-C1'-C2'	5.99	121.78	114.00
24	BA	637	A	N9-C1'-C2'	5.98	121.78	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1746	G	N9-C1'-C2'	-5.98	105.42	112.00
24	BA	265	A	C8-N9-C1'	-5.97	116.95	127.70
24	BA	1310	G	C5'-C4'-O4'	5.97	116.26	109.10
24	BA	746	A	N9-C1'-C2'	-5.97	105.44	112.00
24	BA	2597	G	N9-C1'-C2'	5.97	121.76	114.00
15	AP	107	ALA	N-CA-C	-5.97	94.89	111.00
24	BA	2471	C	N1-C1'-C2'	-5.96	105.44	112.00
24	BA	889	C	N1-C1'-C2'	5.96	121.75	114.00
28	BE	49	LEU	CA-CB-CG	5.96	129.01	115.30
24	BA	607	U	C6-N1-C1'	5.94	129.51	121.20
1	AA	301	G	N9-C1'-C2'	-5.93	105.48	112.00
3	AD	32	U	N1-C1'-C2'	-5.93	105.48	112.00
24	BA	2431	U	O4'-C1'-N1	5.93	112.94	108.20
24	BA	1602	U	N1-C1'-C2'	-5.92	105.48	112.00
24	BA	1533	C	N1-C1'-C2'	-5.92	105.49	112.00
4	AE	98	LEU	CA-CB-CG	5.92	128.91	115.30
24	BA	730	C	C5'-C4'-O4'	5.91	116.20	109.10
24	BA	2821	A	N9-C1'-C2'	-5.91	105.50	112.00
24	BA	1625	C	C2-N1-C1'	5.91	125.30	118.80
1	AA	402	G	N9-C1'-C2'	-5.91	105.50	112.00
24	BA	1791	A	N9-C1'-C2'	5.90	121.67	114.00
1	AA	853	G	O4'-C1'-N9	5.90	112.92	108.20
4	AE	118	LEU	CA-CB-CG	5.89	128.86	115.30
24	BA	1947	C	C5'-C4'-C3'	-5.89	106.57	116.00
1	AA	484	G	C2'-C3'-O3'	5.89	123.12	113.70
24	BA	1128	A	C5'-C4'-C3'	5.89	125.42	116.00
24	BA	2681	C	N1-C1'-C2'	5.89	121.65	114.00
28	BE	146	THR	N-CA-C	-5.88	95.12	111.00
1	AA	1492	A	C3'-C2'-O2'	-5.88	96.25	113.30
24	BA	1786	A	C6-C5-N7	-5.88	128.19	132.30
24	BA	1379	A	N9-C1'-C2'	5.87	121.63	114.00
28	BE	195	LEU	N-CA-C	5.87	126.85	111.00
1	AA	1493	A	C4'-C3'-C2'	5.86	108.46	102.60
24	BA	791	C	O4'-C1'-N1	5.85	112.88	108.20
5	AF	188	LEU	CA-CB-CG	5.85	128.76	115.30
24	BA	49	A	N9-C1'-C2'	-5.84	105.58	112.00
12	AM	8	LEU	CA-CB-CG	5.84	128.73	115.30
24	BA	2613	U	N1-C1'-C2'	5.83	121.58	114.00
1	AA	1294	G	N9-C1'-C2'	-5.83	105.59	112.00
25	BB	50	G	N9-C1'-C2'	-5.83	105.59	112.00
24	BA	2781	A	N9-C1'-C2'	-5.82	105.60	112.00
29	BF	60	SER	N-CA-C	-5.82	95.29	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	80	G	N9-C1'-C2'	5.81	121.56	114.00
24	BA	2614	A	N9-C1'-C2'	5.81	121.56	114.00
24	BA	2255	G	C5'-C4'-O4'	5.81	116.07	109.10
1	AA	397	A	C6-N1-C2	-5.81	115.12	118.60
10	AK	134	ILE	CB-CA-C	-5.81	99.99	111.60
28	BE	25	VAL	CB-CA-C	-5.81	100.37	111.40
24	BA	196	A	O4'-C1'-N9	5.80	112.84	108.20
39	BR	65	VAL	N-CA-C	-5.80	95.34	111.00
34	BM	77	GLY	N-CA-C	-5.80	98.60	113.10
24	BA	1313	U	C2-N1-C1'	5.80	124.66	117.70
28	BE	158	GLY	N-CA-C	5.79	127.59	113.10
1	AA	590	C	N1-C1'-C2'	-5.79	105.63	112.00
1	AA	872	A	O4'-C1'-N9	5.78	112.83	108.20
1	AA	1504	G	C2'-C3'-O3'	5.78	122.95	113.70
35	BN	4	PRO	N-CA-C	-5.78	97.07	112.10
46	BY	144	LEU	CA-CB-CG	5.78	128.60	115.30
24	BA	650	C	N1-C1'-C2'	5.78	121.51	114.00
33	BL	59	ILE	N-CA-C	-5.78	95.40	111.00
1	AA	1029	G	N9-C1'-C2'	-5.77	105.66	112.00
24	BA	427	U	C5-C4-O4	-5.76	122.44	125.90
32	BK	8	PRO	N-CA-C	5.76	127.07	112.10
24	BA	2746	U	N1-C1'-C2'	-5.76	105.67	112.00
24	BA	1440	G	N9-C1'-C2'	-5.75	105.67	112.00
24	BA	687	C	N1-C2-O2	5.75	122.35	118.90
49	B2	27	GLY	N-CA-C	-5.74	98.75	113.10
24	BA	1530	G	C5-C6-O6	5.74	132.04	128.60
24	BA	446	G	N9-C1'-C2'	5.73	121.45	114.00
1	AA	115	G	N9-C1'-C2'	5.73	121.45	114.00
54	B7	49	VAL	CB-CA-C	-5.73	100.52	111.40
1	AA	372	C	C2'-C3'-O3'	5.72	122.86	113.70
46	BY	39	VAL	N-CA-C	5.72	126.45	111.00
24	BA	2668	G	O4'-C1'-N9	5.72	112.78	108.20
28	BE	195	LEU	CA-CB-CG	-5.72	102.15	115.30
1	AA	1336	C	O4'-C1'-N1	5.72	112.77	108.20
24	BA	1204	A	C8-N9-C1'	-5.71	117.42	127.70
24	BA	1980	G	N9-C1'-C2'	5.71	121.42	114.00
24	BA	2491	U	C4'-C3'-O3'	5.70	124.41	113.00
1	AA	1139	G	N9-C1'-C2'	5.70	121.41	114.00
1	AA	146	G	N9-C1'-C2'	-5.70	105.73	112.00
10	AK	100	ILE	N-CA-C	-5.70	95.61	111.00
24	BA	662	G	N9-C1'-C2'	-5.69	105.74	112.00
24	BA	1489	U	C5'-C4'-O4'	5.69	115.93	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BP	111	GLU	N-CA-C	5.69	126.36	111.00
7	AH	31	LEU	CA-CB-CG	5.68	128.36	115.30
24	BA	1420	U	N1-C1'-C2'	5.68	121.38	114.00
24	BA	946	G	N9-C1'-C2'	-5.67	105.76	112.00
24	BA	2761	G	C5'-C4'-C3'	5.67	125.07	116.00
40	BS	57	PHE	N-CA-C	5.66	126.29	111.00
24	BA	2256	G	O4'-C1'-N9	-5.66	103.68	108.20
24	BA	2517	C	N1-C1'-C2'	5.66	121.35	114.00
24	BA	2267	A	O4'-C1'-N9	5.65	112.72	108.20
24	BA	687	C	N1-C1'-C2'	5.65	121.35	114.00
37	BP	71	ASP	N-CA-C	5.65	126.26	111.00
1	AA	833	U	C2-N3-C4	-5.64	123.62	127.00
24	BA	1786	A	N3-C4-N9	5.63	131.91	127.40
24	BA	740	U	O5'-P-OP1	-5.62	100.64	105.70
1	AA	638	G	N9-C1'-C2'	-5.62	105.82	112.00
1	AA	1004	A	C2'-C3'-O3'	5.62	122.69	113.70
24	BA	1359	A	C5-C6-N6	-5.62	119.21	123.70
24	BA	1625	C	O4'-C1'-N1	-5.62	103.71	108.20
24	BA	2665	A	N1-C6-N6	5.62	121.97	118.60
24	BA	1786	A	C5-C6-N1	5.60	120.50	117.70
1	AA	209	U	N1-C1'-C2'	5.60	121.28	114.00
34	BM	49	GLY	N-CA-C	-5.60	99.10	113.10
1	AA	13	U	C5'-C4'-O4'	5.60	115.82	109.10
24	BA	2458	G	N9-C1'-C2'	5.59	121.27	114.00
1	AA	1185	G	N9-C1'-C2'	-5.59	105.85	112.00
24	BA	2491	U	C2-N3-C4	-5.59	123.65	127.00
31	BH	165	ALA	N-CA-C	-5.59	95.91	111.00
39	BR	62	LYS	N-CA-C	5.59	126.09	111.00
24	BA	606	U	C5-C4-O4	-5.58	122.55	125.90
24	BA	2861	G	O4'-C1'-N9	5.58	112.67	108.20
24	BA	1183	G	N9-C1'-C2'	5.58	121.26	114.00
9	AJ	132	GLY	N-CA-C	5.58	127.05	113.10
28	BE	52	LEU	CA-CB-CG	5.57	128.12	115.30
24	BA	2472	G	C5'-C4'-C3'	-5.57	107.09	116.00
24	BA	2414	G	N9-C1'-C2'	-5.56	105.88	112.00
42	BU	56	SER	N-CA-C	5.56	126.02	111.00
24	BA	1424	G	N9-C1'-C2'	-5.56	105.88	112.00
24	BA	978	G	C8-N9-C1'	5.56	134.23	127.00
24	BA	1667	G	C1'-O4'-C4'	-5.56	105.45	109.90
29	BF	13	SER	N-CA-C	-5.56	95.99	111.00
24	BA	1191	G	N9-C1'-C2'	-5.55	105.89	112.00
24	BA	602	G	N9-C1'-C2'	5.55	121.22	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	587	C	N1-C1'-C2'	5.55	121.21	114.00
50	B3	5	ILE	CB-CA-C	-5.54	100.51	111.60
54	B7	17	THR	N-CA-C	-5.54	96.03	111.00
1	AA	767	A	N9-C1'-C2'	-5.54	105.90	112.00
1	AA	1028(A)	C	N1-C1'-C2'	-5.54	105.91	112.00
24	BA	444	C	N1-C1'-C2'	-5.54	105.91	112.00
24	BA	834	C	N1-C1'-C2'	-5.54	105.90	112.00
24	BA	1785	A	N9-C1'-C2'	5.54	121.20	114.00
24	BA	1253	A	N9-C1'-C2'	5.54	121.20	114.00
24	BA	805	G	N9-C1'-C2'	-5.54	105.91	112.00
52	B5	22	ALA	N-CA-C	5.53	125.94	111.00
24	BA	1800	C	O4'-C4'-C3'	-5.53	98.47	104.00
1	AA	853	G	C5-C6-O6	5.53	131.92	128.60
42	BU	49	THR	C-N-CD	-5.53	108.44	120.60
1	AA	723	U	N1-C1'-C2'	5.52	121.18	114.00
24	BA	791	C	N1-C1'-C2'	5.52	121.17	114.00
1	AA	242	C	N1-C1'-C2'	-5.52	105.93	112.00
24	BA	2111	C	N1-C1'-C2'	5.52	121.17	114.00
40	BS	72	VAL	N-CA-C	-5.52	96.10	111.00
24	BA	1559	G	N9-C1'-C2'	-5.51	105.94	112.00
35	BN	6	THR	N-CA-C	5.51	125.88	111.00
1	AA	156	G	N9-C1'-C2'	-5.51	105.94	112.00
24	BA	2668	G	O4'-C4'-C3'	-5.51	98.49	104.00
29	BF	47	GLY	N-CA-C	5.51	126.87	113.10
24	BA	2491	U	C2-N1-C1'	5.51	124.31	117.70
50	B3	52	THR	N-CA-C	5.51	125.87	111.00
20	AU	52	PRO	N-CA-C	5.50	126.40	112.10
1	AA	833	U	N1-C2-O2	-5.50	118.95	122.80
3	AC	76	A	C4'-C3'-O3'	5.50	124.00	113.00
1	AA	1124	G	N9-C1'-C2'	5.50	121.15	114.00
27	BD	44	ASN	N-CA-C	-5.49	96.18	111.00
6	AG	9	CYS	CA-CB-SG	5.48	123.87	114.00
14	AO	119	LYS	N-CA-C	-5.48	96.20	111.00
24	BA	763	G	O4'-C4'-C3'	-5.48	98.52	104.00
4	AE	61	LEU	CA-CB-CG	5.48	127.90	115.30
24	BA	631	A	N9-C1'-C2'	-5.48	105.97	112.00
24	BA	141	A	N9-C1'-C2'	-5.47	105.98	112.00
1	AA	243	A	N9-C1'-C2'	5.47	121.11	114.00
24	BA	2158	A	N9-C1'-C2'	5.46	121.10	114.00
3	AD	55	U	N1-C1'-C2'	-5.45	106.00	112.00
1	AA	1084	G	N9-C1'-C2'	5.45	121.08	114.00
24	BA	1956	U	C5-C4-O4	-5.44	122.64	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BR	23	ARG	N-CA-C	5.43	125.66	111.00
10	AK	80	ILE	N-CA-C	-5.43	96.35	111.00
24	BA	2040	C	N1-C1'-C2'	-5.43	106.03	112.00
24	BA	2285	C	N1-C1'-C2'	-5.42	106.03	112.00
24	BA	1970	A	C5'-C4'-O4'	5.42	115.61	109.10
45	BX	52	SER	N-CA-C	-5.42	96.36	111.00
38	BQ	38	VAL	C-N-CD	5.42	139.78	128.40
31	BH	111	HIS	C-N-CD	5.41	139.77	128.40
50	B3	19	GLY	N-CA-C	-5.41	99.57	113.10
1	AA	106	C	N1-C1'-C2'	-5.41	106.05	112.00
36	BO	88	LEU	N-CA-C	5.41	125.61	111.00
24	BA	1142	U	O4'-C1'-N1	5.41	112.53	108.20
24	BA	2665	A	C4-N9-C1'	5.41	136.03	126.30
24	BA	2867	G	N9-C1'-C2'	5.41	121.03	114.00
1	AA	682	G	N9-C1'-C2'	-5.40	106.06	112.00
24	BA	1544	C	N1-C1'-C2'	5.40	121.02	114.00
24	BA	1416	G	N9-C1'-C2'	5.39	121.01	114.00
50	B3	13	ARG	N-CA-C	5.39	125.56	111.00
1	AA	753	A	N9-C1'-C2'	5.39	121.00	114.00
24	BA	1600	C	N1-C1'-C2'	-5.39	106.08	112.00
24	BA	2885	C	N1-C1'-C2'	-5.38	106.08	112.00
1	AA	88	C	C2-N1-C1'	-5.38	112.88	118.80
24	BA	192	C	O4'-C1'-N1	5.37	112.49	108.20
24	BA	1085	A	N9-C1'-C2'	5.37	120.97	114.00
32	BK	134	PRO	N-CA-C	5.37	126.05	112.10
24	BA	2705	A	N9-C1'-C2'	-5.36	106.11	112.00
9	AJ	76	ARG	N-CA-C	-5.35	96.55	111.00
24	BA	987	G	N9-C1'-C2'	-5.35	106.11	112.00
24	BA	1186	G	O4'-C1'-N9	-5.35	103.92	108.20
24	BA	2500	U	P-O3'-C3'	5.35	126.12	119.70
40	BS	45	PHE	N-CA-C	-5.35	96.57	111.00
24	BA	2399	G	N9-C1'-C2'	-5.34	106.12	112.00
42	BU	66	ARG	N-CA-C	5.34	125.42	111.00
35	BN	68	GLU	N-CA-C	-5.34	96.59	111.00
1	AA	13	U	O4'-C1'-N1	-5.34	103.93	108.20
28	BE	43	GLY	N-CA-C	-5.34	99.76	113.10
24	BA	532	A	N9-C1'-C2'	5.33	120.93	114.00
1	AA	1011	G	N9-C1'-C2'	-5.33	106.14	112.00
24	BA	1127	A	N9-C1'-C2'	-5.32	106.15	112.00
24	BA	1534	G	N9-C1'-C2'	-5.32	106.15	112.00
24	BA	1359	A	N1-C6-N6	5.31	121.79	118.60
24	BA	366	C	N1-C1'-C2'	-5.31	106.16	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	15	G	N9-C1'-C2'	-5.31	106.16	112.00
24	BA	400	G	N9-C1'-C2'	-5.31	106.16	112.00
24	BA	688	U	C2-N3-C4	-5.31	123.81	127.00
24	BA	1020	A	N9-C1'-C2'	-5.31	106.16	112.00
49	B2	38	GLU	N-CA-C	-5.31	96.67	111.00
1	AA	1165	C	N1-C1'-C2'	-5.30	106.17	112.00
19	AT	61	GLU	N-CA-C	-5.30	96.68	111.00
27	BD	70	TRP	N-CA-C	-5.30	96.68	111.00
24	BA	1968	G	N9-C1'-C2'	-5.30	106.17	112.00
1	AA	88	C	N1-C1'-C2'	5.30	120.89	114.00
5	AF	52	LEU	CA-CB-CG	5.30	127.49	115.30
24	BA	2777	G	O4'-C1'-N9	-5.30	103.96	108.20
24	BA	2713	A	N9-C1'-C2'	5.29	120.88	114.00
1	AA	529	G	N9-C1'-C2'	-5.29	106.18	112.00
24	BA	2461	C	N1-C2-O2	5.29	122.07	118.90
1	AA	226	G	C1'-O4'-C4'	-5.29	105.67	109.90
24	BA	774	A	N9-C1'-C2'	5.28	120.87	114.00
24	BA	1230	C	N1-C1'-C2'	-5.28	106.19	112.00
24	BA	2094	G	O4'-C1'-N9	5.28	112.42	108.20
24	BA	2448	A	OP1-P-O3'	5.28	116.81	105.20
24	BA	1762	A	N9-C1'-C2'	-5.27	106.20	112.00
24	BA	698	C	N1-C1'-C2'	5.27	120.85	114.00
24	BA	2249	U	N1-C1'-C2'	5.27	120.85	114.00
24	BA	2787	C	O4'-C1'-N1	5.27	112.42	108.20
1	AA	37	U	N1-C1'-C2'	-5.27	106.21	112.00
35	BN	120	GLU	N-CA-C	5.27	125.22	111.00
24	BA	351	G	N9-C1'-C2'	5.26	120.84	114.00
55	B8	14	CYS	CA-CB-SG	-5.26	104.53	114.00
24	BA	463	G	N9-C1'-C2'	-5.26	106.21	112.00
24	BA	2464	C	N1-C1'-C2'	-5.26	106.22	112.00
34	BM	116	LEU	CA-CB-CG	-5.26	103.21	115.30
24	BA	2358	G	N9-C1'-C2'	-5.25	106.22	112.00
18	AS	16	HIS	N-CA-C	-5.25	96.83	111.00
1	AA	1271	G	N9-C1'-C2'	-5.25	106.23	112.00
24	BA	1005	C	N1-C1'-C2'	5.25	120.82	114.00
1	AA	575	G	N9-C1'-C2'	5.25	120.82	114.00
37	BP	125	LEU	C-N-CA	-5.25	99.97	122.00
34	BM	80	GLY	N-CA-C	-5.24	100.00	113.10
35	BN	102	VAL	N-CA-C	5.24	125.14	111.00
24	BA	1694	C	O4'-C1'-N1	5.24	112.39	108.20
24	BA	2491	U	C6-N1-C2	-5.24	117.86	121.00
38	BQ	69	ASP	N-CA-C	5.24	125.14	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1964	G	N9-C1'-C2'	5.23	120.80	114.00
19	AT	104	LYS	N-CA-C	5.22	125.10	111.00
24	BA	1510	A	N9-C1'-C2'	5.22	120.78	114.00
25	BB	90	C	C5'-C4'-O4'	5.22	115.36	109.10
1	AA	815	A	C1'-O4'-C4'	-5.21	105.73	109.90
24	BA	1993	U	C2-N1-C1'	5.21	123.96	117.70
50	B3	43	TYR	CA-CB-CG	5.21	123.31	113.40
24	BA	2724	C	O4'-C1'-N1	5.21	112.37	108.20
35	BN	61	VAL	N-CA-C	5.21	125.06	111.00
1	AA	5	U	OP1-P-OP2	-5.20	111.80	119.60
24	BA	2493	U	N1-C1'-C2'	-5.20	106.28	112.00
45	BX	46	LYS	N-CA-C	5.20	125.03	111.00
24	BA	2243	U	N1-C1'-C2'	5.20	120.75	114.00
24	BA	2657	A	N9-C1'-C2'	-5.20	106.28	112.00
51	B4	41	PRO	N-CA-C	-5.19	98.60	112.10
14	AO	59	ARG	N-CA-C	-5.19	96.99	111.00
24	BA	1910	G	N9-C1'-C2'	-5.19	106.29	112.00
24	BA	164	U	N1-C1'-C2'	5.19	120.74	114.00
24	BA	2195	C	N1-C1'-C2'	5.18	120.74	114.00
54	B7	51	ALA	N-CA-C	-5.18	97.00	111.00
24	BA	1635	G	C2'-C3'-O3'	5.18	121.99	113.70
1	AA	1310	G	N9-C1'-C2'	-5.18	106.30	112.00
27	BD	260	ARG	N-CA-C	-5.18	97.01	111.00
24	BA	2027	G	C5'-C4'-C3'	5.18	124.29	116.00
42	BU	12	TYR	N-CA-C	5.18	124.99	111.00
24	BA	1956	U	C6-N1-C1'	-5.17	113.96	121.20
31	BH	130	ARG	N-CA-C	-5.17	97.04	111.00
40	BS	63	VAL	N-CA-C	-5.17	97.04	111.00
50	B3	31	ILE	N-CA-C	5.17	124.96	111.00
1	AA	173	U	OP1-P-O3'	5.16	116.55	105.20
24	BA	1012	U	O4'-C4'-C3'	-5.15	98.85	104.00
40	BS	49	VAL	N-CA-C	-5.15	97.09	111.00
24	BA	2431	U	O4'-C4'-C3'	-5.15	98.85	104.00
24	BA	212	G	N9-C1'-C2'	-5.15	106.34	112.00
30	BG	48	GLU	N-CA-C	-5.15	97.10	111.00
46	BY	179	ASP	N-CA-C	5.14	124.89	111.00
43	BV	76	VAL	N-CA-C	5.14	124.88	111.00
47	BZ	26	TYR	N-CA-C	5.14	124.88	111.00
37	BP	34	LEU	CA-CB-CG	-5.13	103.49	115.30
1	AA	307	C	O4'-C1'-N1	-5.13	104.09	108.20
24	BA	283	A	O4'-C1'-N9	-5.13	104.09	108.20
50	B3	30	GLU	N-CA-C	-5.13	97.15	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	930	U	C5'-C4'-O4'	-5.13	102.95	109.10
24	BA	1477	A	N9-C1'-C2'	5.13	120.67	114.00
35	BN	22	ILE	N-CA-C	-5.13	97.16	111.00
28	BE	65	GLY	N-CA-C	-5.12	100.29	113.10
28	BE	147	PRO	N-CA-C	-5.12	98.78	112.10
1	AA	1492	A	C4-N9-C1'	5.12	135.52	126.30
24	BA	775	G	C4-N9-C1'	5.12	133.16	126.50
1	AA	586	C	N1-C1'-C2'	-5.12	106.37	112.00
24	BA	2510	C	C5'-C4'-O4'	5.12	115.24	109.10
30	BG	68	PRO	N-CA-C	5.11	125.39	112.10
35	BN	56	ASP	N-CA-CB	-5.11	101.40	110.60
9	AJ	8	GLU	N-CA-C	5.11	124.80	111.00
4	AE	187	LEU	N-CA-C	-5.11	97.20	111.00
24	BA	860	U	C5-C4-O4	-5.11	122.84	125.90
1	AA	1148	U	N1-C1'-C2'	5.11	120.64	114.00
25	BB	56	G	C2'-C3'-O3'	5.11	121.87	113.70
24	BA	2302	G	N9-C1'-C2'	-5.10	106.39	112.00
24	BA	1706	U	N1-C1'-C2'	5.10	120.63	114.00
24	BA	1746	G	O4'-C4'-C3'	-5.10	98.90	104.00
24	BA	1956	U	C5'-C4'-C3'	-5.10	107.84	116.00
24	BA	2894	G	N9-C1'-C2'	5.10	120.63	114.00
34	BM	104	LYS	N-CA-C	-5.10	97.24	111.00
24	BA	573	G	N9-C1'-C2'	5.09	120.62	114.00
1	AA	1210	C	O4'-C1'-N1	5.09	112.27	108.20
24	BA	643	A	N9-C1'-C2'	5.09	120.62	114.00
42	BU	40	LEU	N-CA-C	-5.09	97.26	111.00
1	AA	423	G	N9-C1'-C2'	5.09	120.61	114.00
24	BA	1240	U	N3-C4-O4	-5.09	115.84	119.40
24	BA	150	C	N1-C1'-C2'	5.08	120.61	114.00
24	BA	270(E)	G	O4'-C1'-N9	5.08	112.27	108.20
1	AA	741	G	N9-C1'-C2'	-5.08	106.41	112.00
1	AA	1493	A	O4'-C1'-N9	5.08	112.26	108.20
24	BA	66	C	N1-C1'-C2'	-5.08	106.42	112.00
24	BA	2425	A	O4'-C1'-N9	5.08	112.26	108.20
25	BB	-1	A	OP1-P-OP2	-5.08	111.99	119.60
1	AA	491	G	N9-C1'-C2'	-5.07	106.42	112.00
24	BA	265	A	C4-C5-C6	5.07	119.53	117.00
24	BA	1559	G	C3'-C2'-C1'	-5.07	97.44	101.50
24	BA	2061	G	N9-C1'-C2'	5.07	120.59	114.00
24	BA	1266	G	C5'-C4'-C3'	5.07	124.11	116.00
24	BA	728	G	N9-C1'-C2'	5.07	120.58	114.00
24	BA	2448	A	C5'-C4'-C3'	-5.07	107.89	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2665	A	C8-N9-C1'	-5.07	118.58	127.70
7	AH	97	GLY	N-CA-C	-5.06	100.44	113.10
37	BP	123	HIS	N-CA-C	-5.06	97.33	111.00
6	AG	31	CYS	CA-CB-SG	5.06	123.11	114.00
24	BA	647	G	N9-C1'-C2'	5.06	120.58	114.00
24	BA	1516	U	N3-C4-O4	-5.06	115.86	119.40
46	BY	61	LEU	C-N-CD	-5.06	109.48	120.60
14	AO	27	LEU	CA-CB-CG	5.05	126.92	115.30
16	AQ	24	CYS	CA-CB-SG	5.05	123.10	114.00
1	AA	1230	C	N1-C1'-C2'	-5.05	106.45	112.00
36	BO	42	SER	N-CA-C	5.04	124.62	111.00
24	BA	1429	G	N9-C1'-C2'	5.04	120.55	114.00
1	AA	906	G	N9-C1'-C2'	-5.04	106.46	112.00
24	BA	2135	A	O4'-C1'-N9	-5.04	104.17	108.20
24	BA	95	G	N9-C1'-C2'	-5.04	106.46	112.00
24	BA	2447	G	O5'-P-OP1	-5.03	101.17	105.70
1	AA	13	U	C2-N1-C1'	5.03	123.73	117.70
1	AA	226	G	N9-C1'-C2'	-5.03	106.47	112.00
5	AF	197	GLY	N-CA-C	5.03	125.67	113.10
1	AA	1346	A	C5'-C4'-O4'	5.03	115.13	109.10
24	BA	1667	G	C4'-C3'-C2'	-5.03	97.58	102.60
24	BA	1779	U	C6-N1-C2	-5.02	117.99	121.00
24	BA	125	G	N9-C1'-C2'	5.02	120.53	114.00
1	AA	166	G	N9-C1'-C2'	-5.02	106.48	112.00
24	BA	869	G	C5'-C4'-C3'	5.02	124.03	116.00
24	BA	1778	U	C2'-C3'-O3'	5.02	121.72	113.70
1	AA	13	U	N1-C1'-C2'	5.01	120.52	114.00
25	BB	74	U	N1-C1'-C2'	-5.01	106.49	112.00
24	BA	1199	U	N1-C1'-C2'	5.01	120.51	114.00
24	BA	1541	U	O4'-C1'-N1	5.01	112.21	108.20
2	A1	3	U	OP1-P-OP2	-5.01	112.09	119.60

There are no chirality outliers.

All (694) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A1	31	U	Sidechain
2	A1	38	U	Sidechain
2	A1	41	U	Sidechain
1	AA	1012	U	Sidechain
1	AA	1027	C	Sidechain
1	AA	1028(A)	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1037	C	Sidechain
1	AA	1038	C	Sidechain
1	AA	1039	C	Sidechain
1	AA	1040	U	Sidechain
1	AA	1048	G	Sidechain
1	AA	1052	U	Sidechain
1	AA	1054	C	Sidechain
1	AA	1056	U	Sidechain
1	AA	1065	U	Sidechain
1	AA	1067	A	Sidechain
1	AA	1073	U	Sidechain
1	AA	1078	U	Sidechain
1	AA	1083	U	Sidechain
1	AA	1097	C	Sidechain
1	AA	1100	C	Sidechain
1	AA	1121	U	Sidechain
1	AA	1122	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1128	C	Sidechain
1	AA	1133	G	Sidechain
1	AA	1143	G	Sidechain
1	AA	115	G	Sidechain
1	AA	1150	U	Sidechain
1	AA	1165	C	Sidechain
1	AA	1195	C	Sidechain
1	AA	1199	U	Sidechain
1	AA	12	U	Sidechain
1	AA	1226	C	Sidechain
1	AA	1235	U	Sidechain
1	AA	124	G	Sidechain
1	AA	1246	C	Sidechain
1	AA	125	U	Sidechain
1	AA	1263	C	Sidechain
1	AA	1266	G	Sidechain
1	AA	1277	C	Sidechain
1	AA	1285	A	Sidechain
1	AA	129	U	Sidechain
1	AA	1298	C	Sidechain
1	AA	1302	U	Sidechain
1	AA	131	C	Sidechain
1	AA	1314	C	Sidechain
1	AA	132	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1327	C	Sidechain
1	AA	1328	C	Sidechain
1	AA	1330	U	Sidechain
1	AA	134	A	Sidechain
1	AA	1347	G	Sidechain
1	AA	135	C	Sidechain
1	AA	1352	C	Sidechain
1	AA	1362	C	Sidechain
1	AA	1370	G	Sidechain
1	AA	1377	A	Sidechain
1	AA	138	G	Sidechain
1	AA	1402	C	Sidechain
1	AA	1404	C	Sidechain
1	AA	1405	G	Sidechain
1	AA	1422	G	Sidechain
1	AA	1427	U	Sidechain
1	AA	1442	G	Sidechain
1	AA	145	G	Sidechain
1	AA	146	G	Sidechain
1	AA	1472	U	Sidechain
1	AA	1477	C	Sidechain
1	AA	1481	U	Sidechain
1	AA	1489	G	Sidechain
1	AA	1495	U	Sidechain
1	AA	1500	A	Sidechain
1	AA	1541	U	Sidechain
1	AA	156	G	Sidechain
1	AA	158	G	Sidechain
1	AA	159	G	Sidechain
1	AA	17	U	Sidechain
1	AA	191(C)	G	Sidechain
1	AA	191(D)	U	Sidechain
1	AA	219	C	Sidechain
1	AA	225	C	Sidechain
1	AA	244	U	Sidechain
1	AA	253	U	Sidechain
1	AA	267	C	Sidechain
1	AA	274	A	Sidechain
1	AA	281	G	Sidechain
1	AA	285	G	Sidechain
1	AA	287	U	Sidechain
1	AA	295	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	31	G	Sidechain
1	AA	332	G	Sidechain
1	AA	335	C	Sidechain
1	AA	348	G	Sidechain
1	AA	352	C	Sidechain
1	AA	367	U	Sidechain
1	AA	37	U	Sidechain
1	AA	375	U	Sidechain
1	AA	385	C	Sidechain
1	AA	395	C	Sidechain
1	AA	397	A	Sidechain
1	AA	398	C	Sidechain
1	AA	403	C	Sidechain
1	AA	412	A	Sidechain
1	AA	418	C	Sidechain
1	AA	430	A	Sidechain
1	AA	432	A	Sidechain
1	AA	45	U	Sidechain
1	AA	451	A	Sidechain
1	AA	47	C	Sidechain
1	AA	484	G	Sidechain
1	AA	501	C	Sidechain
1	AA	504	C	Sidechain
1	AA	518	C	Sidechain
1	AA	529	G	Sidechain
1	AA	531	U	Sidechain
1	AA	532	A	Sidechain
1	AA	54	C	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	579	G	Sidechain
1	AA	590	C	Sidechain
1	AA	591	U	Sidechain
1	AA	596	C	Sidechain
1	AA	610	G	Sidechain
1	AA	616	G	Sidechain
1	AA	63	C	Sidechain
1	AA	634	C	Sidechain
1	AA	644	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	66	G	Sidechain
1	AA	661	G	Sidechain
1	AA	666	G	Sidechain
1	AA	672	U	Sidechain
1	AA	689	C	Sidechain
1	AA	690	G	Sidechain
1	AA	717	C	Sidechain
1	AA	727	G	Sidechain
1	AA	729	A	Sidechain
1	AA	734	G	Sidechain
1	AA	739	C	Sidechain
1	AA	741	G	Sidechain
1	AA	75	C	Sidechain
1	AA	760	G	Sidechain
1	AA	763	G	Sidechain
1	AA	770	C	Sidechain
1	AA	779	C	Sidechain
1	AA	792	A	Sidechain
1	AA	808	C	Sidechain
1	AA	813	U	Sidechain
1	AA	817	C	Sidechain
1	AA	82	U	Sidechain
1	AA	834	C	Sidechain
1	AA	853	G	Sidechain
1	AA	862	C	Sidechain
1	AA	863	U	Sidechain
1	AA	875	C	Sidechain
1	AA	88	C	Sidechain
1	AA	883	C	Sidechain
1	AA	887	G	Sidechain
1	AA	895	G	Sidechain
1	AA	898	G	Sidechain
1	AA	901	A	Sidechain
1	AA	902	G	Sidechain
1	AA	904	C	Sidechain
1	AA	905	U	Sidechain
1	AA	911	U	Sidechain
1	AA	912	C	Sidechain
1	AA	923	A	Sidechain
1	AA	947	G	Sidechain
1	AA	955	U	Sidechain
1	AA	961	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	974	A	Sidechain
1	AA	983	A	Sidechain
1	AA	989	C	Sidechain
1	AA	998(A)	C	Sidechain
3	AB	11	C	Sidechain
3	AB	12	U	Sidechain
3	AB	37	A	Sidechain
3	AB	53	G	Sidechain
3	AB	60	U	Sidechain
3	AB	61	C	Sidechain
3	AC	14	A	Sidechain
3	AC	18	G	Sidechain
3	AC	33	U	Sidechain
3	AC	35	A	Sidechain
3	AC	46	G	Sidechain
3	AC	58	A	Sidechain
3	AC	68	C	Sidechain
3	AC	9	A	Sidechain
3	AD	2	C	Sidechain
3	AD	3	C	Sidechain
3	AD	32	U	Sidechain
3	AD	59	U	Sidechain
3	AD	60	U	Sidechain
3	AD	64	A	Sidechain
3	AD	66	U	Sidechain
3	AD	67	C	Sidechain
6	AG	54	TYR	Sidechain
8	AI	4	TYR	Sidechain
13	AN	75	TYR	Sidechain
15	AP	59	TYR	Sidechain
16	AQ	34	TYR	Sidechain
50	B3	32	TYR	Sidechain
51	B4	29	THR	Mainchain
24	BA	1000	A	Sidechain
24	BA	1012	U	Sidechain
24	BA	1018	C	Sidechain
24	BA	1020	A	Sidechain
24	BA	1022	G	Sidechain
24	BA	1024	G	Sidechain
24	BA	1026	U	Sidechain
24	BA	1040	C	Sidechain
24	BA	1042	G	Sidechain

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
24	BA	1043	C	Sidechain
24	BA	1052	C	Sidechain
24	BA	1053	C	Sidechain
24	BA	1063	G	Sidechain
24	BA	1064	C	Sidechain
24	BA	1080	C	Sidechain
24	BA	1082	U	Sidechain
24	BA	1092	C	Sidechain
24	BA	1099	G	Sidechain
24	BA	1101	U	Sidechain
24	BA	1102	C	Sidechain
24	BA	1104	C	Sidechain
24	BA	1107	G	Sidechain
24	BA	1108	U	Sidechain
24	BA	1113	U	Sidechain
24	BA	1116	C	Sidechain
24	BA	1133	U	Sidechain
24	BA	114	U	Sidechain
24	BA	1141	U	Sidechain
24	BA	1142	U	Sidechain
24	BA	1143	A	Sidechain
24	BA	1154	G	Sidechain
24	BA	1155	A	Sidechain
24	BA	1160	G	Sidechain
24	BA	1169	G	Sidechain
24	BA	1179	C	Sidechain
24	BA	1182	A	Sidechain
24	BA	1183	G	Sidechain
24	BA	1194	A	Sidechain
24	BA	1195	G	Sidechain
24	BA	1206	G	Sidechain
24	BA	1238	G	Sidechain
24	BA	1240	U	Sidechain
24	BA	1242	A	Sidechain
24	BA	1247	A	Sidechain
24	BA	1262	A	Sidechain
24	BA	1269	A	Sidechain
24	BA	1273	U	Sidechain
24	BA	1284	A	Sidechain
24	BA	1288	U	Sidechain
24	BA	1297	C	Sidechain
24	BA	1301	A	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1310	G	Sidechain
24	BA	135	G	Sidechain
24	BA	1357	U	Sidechain
24	BA	1359	A	Sidechain
24	BA	1363	C	Sidechain
24	BA	1367	A	Sidechain
24	BA	1368	G	Sidechain
24	BA	1372	U	Sidechain
24	BA	1379	A	Sidechain
24	BA	138	G	Sidechain
24	BA	1384	A	Sidechain
24	BA	1392	A	Sidechain
24	BA	1393	A	Sidechain
24	BA	1397	U	Sidechain
24	BA	14	A	Sidechain
24	BA	1405	U	Sidechain
24	BA	141(A)	C	Sidechain
24	BA	1416	G	Sidechain
24	BA	1418	G	Sidechain
24	BA	1444(A)	A	Sidechain
24	BA	1450	C	Sidechain
24	BA	1473	G	Sidechain
24	BA	1474	C	Sidechain
24	BA	1477	A	Sidechain
24	BA	1478	G	Sidechain
24	BA	1479	G	Sidechain
24	BA	1489	U	Sidechain
24	BA	1497	U	Sidechain
24	BA	1513	C	Sidechain
24	BA	1515	C	Sidechain
24	BA	1516	U	Sidechain
24	BA	1523	U	Sidechain
24	BA	1525	G	Sidechain
24	BA	1527	G	Sidechain
24	BA	1532	C	Sidechain
24	BA	1537	C	Sidechain
24	BA	1539	G	Sidechain
24	BA	1541	U	Sidechain
24	BA	1559	G	Sidechain
24	BA	1564	C	Sidechain
24	BA	1565	C	Sidechain
24	BA	1568	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1574	C	Sidechain
24	BA	1576	U	Sidechain
24	BA	1590	U	Sidechain
24	BA	1597	A	Sidechain
24	BA	1604	C	Sidechain
24	BA	1606	G	Sidechain
24	BA	1609	A	Sidechain
24	BA	1623	G	Sidechain
24	BA	1625	C	Sidechain
24	BA	1648	C	Sidechain
24	BA	1651	G	Sidechain
24	BA	1655	A	Sidechain
24	BA	1657	C	Sidechain
24	BA	1659	U	Sidechain
24	BA	1661	G	Sidechain
24	BA	1667	G	Sidechain
24	BA	1677	A	Sidechain
24	BA	1681	G	Sidechain
24	BA	1684	C	Sidechain
24	BA	1685	C	Sidechain
24	BA	1686	C	Sidechain
24	BA	1687	G	Sidechain
24	BA	1688	U	Sidechain
24	BA	1691	C	Sidechain
24	BA	1693	U	Sidechain
24	BA	1694	C	Sidechain
24	BA	1699	G	Sidechain
24	BA	1704	G	Sidechain
24	BA	1711	C	Sidechain
24	BA	1716	U	Sidechain
24	BA	1718	G	Sidechain
24	BA	1727	U	Sidechain
24	BA	1735	C	Sidechain
24	BA	1741	C	Sidechain
24	BA	1742	C	Sidechain
24	BA	1743	G	Sidechain
24	BA	176	G	Sidechain
24	BA	1766	U	Sidechain
24	BA	1768	U	Sidechain
24	BA	1774	C	Sidechain
24	BA	1775	U	Sidechain
24	BA	1776	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1777	U	Sidechain
24	BA	1778	U	Sidechain
24	BA	1779	U	Sidechain
24	BA	1780	A	Sidechain
24	BA	1783	A	Sidechain
24	BA	1786	A	Sidechain
24	BA	1790	C	Sidechain
24	BA	1791	A	Sidechain
24	BA	1794	U	Sidechain
24	BA	1798	U	Sidechain
24	BA	1800	C	Sidechain
24	BA	1808	U	Sidechain
24	BA	1809	A	Sidechain
24	BA	1810	A	Sidechain
24	BA	1815	A	Sidechain
24	BA	1822	G	Sidechain
24	BA	1831	G	Sidechain
24	BA	1843	C	Sidechain
24	BA	185	U	Sidechain
24	BA	188	G	Sidechain
24	BA	1902	C	Sidechain
24	BA	1904	G	Sidechain
24	BA	1911	U	Sidechain
24	BA	1916	A	Sidechain
24	BA	1918	A	Sidechain
24	BA	1919	A	Sidechain
24	BA	192	C	Sidechain
24	BA	1921	G	Sidechain
24	BA	1923	U	Sidechain
24	BA	1926	U	Sidechain
24	BA	1928	A	Sidechain
24	BA	1931	U	Sidechain
24	BA	1940	U	Sidechain
24	BA	1962	C	Sidechain
24	BA	1964	G	Sidechain
24	BA	1965	C	Sidechain
24	BA	1967	C	Sidechain
24	BA	1971	A	Sidechain
24	BA	1981	A	Sidechain
24	BA	1982	C	Sidechain
24	BA	1983	C	Sidechain
24	BA	1985	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	1989	G	Sidechain
24	BA	199	A	Sidechain
24	BA	1998	G	Sidechain
24	BA	2017	U	Sidechain
24	BA	2021	C	Sidechain
24	BA	2026	C	Sidechain
24	BA	2033	A	Sidechain
24	BA	2042	A	Sidechain
24	BA	2048	G	Sidechain
24	BA	2049	G	Sidechain
24	BA	2051	A	Sidechain
24	BA	2061	G	Sidechain
24	BA	2068	U	Sidechain
24	BA	2075	U	Sidechain
24	BA	2076	U	Sidechain
24	BA	2089	U	Sidechain
24	BA	2094	G	Sidechain
24	BA	2095	C	Sidechain
24	BA	2096	U	Sidechain
24	BA	2098	U	Sidechain
24	BA	2103	C	Sidechain
24	BA	2119	A	Sidechain
24	BA	212	G	Sidechain
24	BA	2126	A	Sidechain
24	BA	2130	U	Sidechain
24	BA	2138	C	Sidechain
24	BA	2148	G	Sidechain
24	BA	2161	C	Sidechain
24	BA	2185	C	Sidechain
24	BA	2189	U	Sidechain
24	BA	2190	G	Sidechain
24	BA	2193	G	Sidechain
24	BA	2195	C	Sidechain
24	BA	221	A	Sidechain
24	BA	2215	G	Sidechain
24	BA	224	G	Sidechain
24	BA	2246	G	Sidechain
24	BA	2259	G	Sidechain
24	BA	2262	U	Sidechain
24	BA	2263	C	Sidechain
24	BA	2265	U	Sidechain
24	BA	2267	A	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2274	A	Sidechain
24	BA	2278	A	Sidechain
24	BA	2284	C	Sidechain
24	BA	2287	A	Sidechain
24	BA	2293	C	Sidechain
24	BA	2295	C	Sidechain
24	BA	2296	U	Sidechain
24	BA	2297	C	Sidechain
24	BA	2299	G	Sidechain
24	BA	2314	C	Sidechain
24	BA	2326	C	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	237	C	Sidechain
24	BA	2384	G	Sidechain
24	BA	2395	C	Sidechain
24	BA	2399	G	Sidechain
24	BA	2406	U	Sidechain
24	BA	2408	U	Sidechain
24	BA	2413	G	Sidechain
24	BA	2422	A	Sidechain
24	BA	2423	U	Sidechain
24	BA	2425	A	Sidechain
24	BA	2427	C	Sidechain
24	BA	2431	U	Sidechain
24	BA	2432	A	Sidechain
24	BA	2433	A	Sidechain
24	BA	2434	A	Sidechain
24	BA	2435	A	Sidechain
24	BA	2436	G	Sidechain
24	BA	2439	A	Sidechain
24	BA	2444	G	Sidechain
24	BA	2449	U	Sidechain
24	BA	2450	A	Sidechain
24	BA	2458	G	Sidechain
24	BA	2467	C	Sidechain
24	BA	2471	C	Sidechain
24	BA	2480	C	Sidechain
24	BA	2483	C	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2486	G	Sidechain
24	BA	2490	G	Sidechain
24	BA	2491	U	Sidechain
24	BA	2493	U	Sidechain
24	BA	2498	C	Sidechain
24	BA	25	U	Sidechain
24	BA	2500	U	Sidechain
24	BA	2501	C	Sidechain
24	BA	2504	U	Sidechain
24	BA	2505	G	Sidechain
24	BA	2507	C	Sidechain
24	BA	2508	G	Sidechain
24	BA	251	A	Sidechain
24	BA	2510	C	Sidechain
24	BA	2514	U	Sidechain
24	BA	2515	C	Sidechain
24	BA	2516	G	Sidechain
24	BA	2517	C	Sidechain
24	BA	2519	U	Sidechain
24	BA	2521	C	Sidechain
24	BA	2524	G	Sidechain
24	BA	2527	C	Sidechain
24	BA	2529	G	Sidechain
24	BA	253	C	Sidechain
24	BA	2530	A	Sidechain
24	BA	2537	U	Sidechain
24	BA	2540	C	Sidechain
24	BA	2555	U	Sidechain
24	BA	2560	C	Sidechain
24	BA	2568	C	Sidechain
24	BA	2569	G	Sidechain
24	BA	257	A	Sidechain
24	BA	2579	C	Sidechain
24	BA	2580	U	Sidechain
24	BA	2583	G	Sidechain
24	BA	2590	A	Sidechain
24	BA	2595	G	Sidechain
24	BA	2597	G	Sidechain
24	BA	2601	C	Sidechain
24	BA	2602	A	Sidechain
24	BA	2606	C	Sidechain
24	BA	2607	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2608	G	Sidechain
24	BA	2609	U	Sidechain
24	BA	2613	U	Sidechain
24	BA	2615	U	Sidechain
24	BA	2619	C	Sidechain
24	BA	2623	G	Sidechain
24	BA	2629	A	Sidechain
24	BA	2637	U	Sidechain
24	BA	2642	G	Sidechain
24	BA	2645	G	Sidechain
24	BA	2652	C	Sidechain
24	BA	2665	A	Sidechain
24	BA	2667	C	Sidechain
24	BA	2684	U	Sidechain
24	BA	2687	U	Sidechain
24	BA	2698	U	Sidechain
24	BA	270(C)	C	Sidechain
24	BA	270(D)	C	Sidechain
24	BA	270(G)	C	Sidechain
24	BA	270(Q)	C	Sidechain
24	BA	2706	G	Sidechain
24	BA	2713	A	Sidechain
24	BA	2724	C	Sidechain
24	BA	2725	A	Sidechain
24	BA	273(C)	C	Sidechain
24	BA	273(D)	C	Sidechain
24	BA	2737	G	Sidechain
24	BA	2741	A	Sidechain
24	BA	2746	U	Sidechain
24	BA	2763	G	Sidechain
24	BA	2764	A	Sidechain
24	BA	2777	G	Sidechain
24	BA	2781	A	Sidechain
24	BA	2787	C	Sidechain
24	BA	2791	C	Sidechain
24	BA	2794	C	Sidechain
24	BA	280	C	Sidechain
24	BA	2816	C	Sidechain
24	BA	2817	G	Sidechain
24	BA	2825	C	Sidechain
24	BA	2853	C	Sidechain
24	BA	2867	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	2885	C	Sidechain
24	BA	2887	U	Sidechain
24	BA	2891	G	Sidechain
24	BA	2897	U	Sidechain
24	BA	2898	U	Sidechain
24	BA	2901	C	Sidechain
24	BA	296	C	Sidechain
24	BA	3	U	Sidechain
24	BA	31	C	Sidechain
24	BA	32	C	Sidechain
24	BA	322	A	Sidechain
24	BA	337	C	Sidechain
24	BA	350	U	Sidechain
24	BA	351	G	Sidechain
24	BA	353	G	Sidechain
24	BA	358	U	Sidechain
24	BA	360	G	Sidechain
24	BA	362	U	Sidechain
24	BA	366	C	Sidechain
24	BA	380	U	Sidechain
24	BA	383	U	Sidechain
24	BA	386	G	Sidechain
24	BA	417	C	Sidechain
24	BA	427	U	Sidechain
24	BA	433	C	Sidechain
24	BA	445	C	Sidechain
24	BA	446	G	Sidechain
24	BA	448	U	Sidechain
24	BA	459	U	Sidechain
24	BA	474	G	Sidechain
24	BA	511	U	Sidechain
24	BA	513	A	Sidechain
24	BA	514	A	Sidechain
24	BA	525	U	Sidechain
24	BA	534	U	Sidechain
24	BA	553	U	Sidechain
24	BA	584	C	Sidechain
24	BA	585	G	Sidechain
24	BA	601	C	Sidechain
24	BA	605	C	Sidechain
24	BA	606	U	Sidechain
24	BA	607	U	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	608	A	Sidechain
24	BA	610	C	Sidechain
24	BA	611	C	Sidechain
24	BA	618(A)	C	Sidechain
24	BA	621	A	Sidechain
24	BA	639	U	Sidechain
24	BA	641	C	Sidechain
24	BA	643	A	Sidechain
24	BA	646	A	Sidechain
24	BA	647	G	Sidechain
24	BA	650	C	Sidechain
24	BA	658	C	Sidechain
24	BA	67	U	Sidechain
24	BA	670	A	Sidechain
24	BA	679	C	Sidechain
24	BA	697	C	Sidechain
24	BA	703	U	Sidechain
24	BA	704	G	Sidechain
24	BA	709	U	Sidechain
24	BA	715	G	Sidechain
24	BA	724	U	Sidechain
24	BA	729	G	Sidechain
24	BA	730	C	Sidechain
24	BA	733	G	Sidechain
24	BA	744	G	Sidechain
24	BA	750	A	Sidechain
24	BA	758	C	Sidechain
24	BA	76	C	Sidechain
24	BA	762	U	Sidechain
24	BA	767	U	Sidechain
24	BA	774	A	Sidechain
24	BA	775	G	Sidechain
24	BA	776	G	Sidechain
24	BA	779	U	Sidechain
24	BA	786	C	Sidechain
24	BA	792	G	Sidechain
24	BA	795	C	Sidechain
24	BA	800	A	Sidechain
24	BA	801	G	Sidechain
24	BA	805	G	Sidechain
24	BA	807	U	Sidechain
24	BA	811	U	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	821	A	Sidechain
24	BA	830	G	Sidechain
24	BA	832	G	Sidechain
24	BA	835	A	Sidechain
24	BA	843	G	Sidechain
24	BA	847	U	Sidechain
24	BA	848	G	Sidechain
24	BA	858	U	Sidechain
24	BA	860	U	Sidechain
24	BA	865	C	Sidechain
24	BA	879	G	Sidechain
24	BA	9	U	Sidechain
24	BA	904	C	Sidechain
24	BA	907	U	Sidechain
24	BA	913	U	Sidechain
24	BA	915	C	Sidechain
24	BA	922	U	Sidechain
24	BA	924	C	Sidechain
24	BA	930	U	Sidechain
24	BA	931	G	Sidechain
24	BA	944	G	Sidechain
24	BA	946	G	Sidechain
24	BA	955	C	Sidechain
24	BA	965	C	Sidechain
24	BA	969	U	Sidechain
24	BA	971	C	Sidechain
24	BA	972	G	Sidechain
24	BA	974(A)	C	Sidechain
24	BA	978	G	Sidechain
24	BA	980	A	Sidechain
24	BA	981	A	Sidechain
24	BA	986	C	Sidechain
24	BA	987	G	Sidechain
24	BA	990	A	Sidechain
25	BB	10	C	Sidechain
25	BB	101	A	Sidechain
25	BB	109	G	Sidechain
25	BB	11	C	Sidechain
25	BB	33	G	Sidechain
25	BB	34	U	Sidechain
25	BB	55	U	Sidechain
25	BB	60	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	68	C	Sidechain
25	BB	7	G	Sidechain
25	BB	71	C	Sidechain
25	BB	77	U	Sidechain
25	BB	8	U	Sidechain
25	BB	89	G	Sidechain
25	BB	90	C	Sidechain
25	BB	93	C	Sidechain
25	BB	97	G	Sidechain
25	BB	98	G	Sidechain
26	BC	179	SER	Mainchain
28	BE	151	TYR	Sidechain
34	BM	4	TYR	Sidechain
37	BP	93	TYR	Sidechain
40	BS	32	TYR	Sidechain
42	BU	91	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	16431	6724	0
2	A1	1025	0	511	175	0
3	AB	1623	0	821	225	0
3	AC	1623	0	821	322	0
3	AD	1623	0	821	288	0
4	AE	1900	0	1951	1040	0
5	AF	1612	0	1677	721	0
6	AG	1703	0	1763	869	0
7	AH	1146	0	1207	588	0
8	AI	843	0	857	384	0
9	AJ	1257	0	1296	577	0
10	AK	1116	0	1177	735	0
11	AL	1010	0	1037	470	0
12	AM	794	0	840	358	0
13	AN	885	0	904	471	0
14	AO	970	0	1057	512	0
15	AP	997	0	1072	521	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	AQ	492	0	529	278	0
17	AR	734	0	771	332	0
18	AS	700	0	720	353	0
19	AT	857	0	930	450	0
20	AU	597	0	668	369	0
21	AV	647	0	673	312	0
22	AW	763	0	861	374	0
23	AX	208	0	221	83	0
24	BA	62218	0	31356	15296	0
25	BB	2641	0	1337	605	1
26	BC	1742	0	1796	739	0
27	BD	2124	0	2207	1491	0
28	BE	1578	0	1647	1084	0
29	BF	1625	0	1666	822	0
30	BG	1482	0	1546	898	0
31	BH	1328	0	1408	697	0
32	BK	1155	0	1244	502	0
33	BL	1025	0	1074	441	0
34	BM	1113	0	1183	782	0
35	BN	932	0	994	712	0
36	BO	1106	0	1183	795	0
37	BP	1080	0	1127	752	0
38	BQ	960	0	1021	603	0
39	BR	877	0	938	517	0
40	BS	976	0	1033	636	0
41	BT	964	0	1022	742	0
42	BU	779	0	852	574	0
43	BV	876	0	941	459	0
44	BW	742	0	800	360	0
45	BX	844	0	930	421	0
46	BY	1435	0	1463	720	0
47	BZ	670	0	700	354	0
48	B1	567	0	621	312	0
49	B2	469	0	518	320	0
50	B3	581	0	577	397	0
51	B4	445	0	459	277	0
52	B5	426	0	452	279	0
53	B6	430	0	480	273	0
54	B7	515	0	587	396	0
55	B8	307	0	335	150	0
All	All	151691	0	103113	46416	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 183.

All (46416) 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)
24:BA:2447:G:C8	24:BA:2500:U:H3'	1.23	1.61
24:BA:1202:C:C5	24:BA:1203:G:H1'	1.39	1.55
24:BA:1203:G:O6	24:BA:1240:U:C2	1.66	1.48
24:BA:2459:A:N3	24:BA:2460:U:H1'	1.38	1.38
24:BA:2596:U:H2'	27:BD:242:ARG:CZ	1.55	1.35
27:BD:8:PRO:O	27:BD:25:THR:HA	1.22	1.35
46:BY:27:VAL:HG23	46:BY:85:HIS:NE2	1.39	1.34
35:BN:97:ARG:HB2	35:BN:97:ARG:NH2	1.44	1.32
1:AA:38:G:N2	1:AA:397:A:H5''	1.43	1.32
50:B3:43:TYR:HA	50:B3:61:ARG:NH2	1.45	1.32
50:B3:58:ARG:O	50:B3:61:ARG:HB2	1.29	1.31
28:BE:92:THR:CA	28:BE:95:ILE:HB	1.59	1.31
37:BP:67:ARG:CZ	37:BP:103:MET:HB3	1.60	1.30
32:BK:92:VAL:HB	32:BK:120:ILE:O	1.25	1.30
28:BE:92:THR:HA	28:BE:95:ILE:CB	1.60	1.30
24:BA:1241:A:H5''	24:BA:1241:A:N3	1.46	1.30
35:BN:3:GLN:NE2	35:BN:33:ALA:HB3	1.45	1.29
46:BY:27:VAL:HG23	46:BY:85:HIS:CE1	1.65	1.29
42:BU:32:THR:HA	42:BU:64:HIS:O	1.32	1.28
9:AJ:78:ARG:O	9:AJ:84:ASN:HA	1.33	1.28
41:BT:44:ASN:O	41:BT:47:TYR:HB2	1.31	1.28
24:BA:1559:G:N1	24:BA:1560:G:H4'	1.47	1.28
35:BN:6:THR:O	35:BN:20:MET:HA	1.29	1.28
32:BK:87:LYS:HA	32:BK:121:LYS:O	1.30	1.27
27:BD:51:VAL:HB	27:BD:52:ARG:CZ	1.64	1.27
46:BY:24:LEU:O	46:BY:39:VAL:HB	1.32	1.27
29:BF:19:GLU:C	29:BF:20:LEU:HD23	1.55	1.26
24:BA:2447:G:C8	24:BA:2500:U:C3'	2.19	1.25
24:BA:1128:A:N6	24:BA:2518:A:H61	1.31	1.25
46:BY:27:VAL:CG2	46:BY:85:HIS:CE1	2.19	1.25
55:B8:19:ARG:O	55:B8:22:ARG:HB2	1.31	1.25
24:BA:2491:U:H3'	24:BA:2491:U:C6	1.69	1.24
24:BA:1202:C:C4	24:BA:1203:G:H1'	1.69	1.24
1:AA:1443:G:H4'	1:AA:1446:A:C5'	1.68	1.24
24:BA:1222:C:H42	24:BA:1227:A:N6	1.34	1.24
36:BO:74:GLU:HB3	36:BO:111:ARG:O	1.37	1.23
24:BA:2591:C:H2'	24:BA:2592:G:C8	1.73	1.23
24:BA:2445:G:H2'	24:BA:2446:G:C8	1.72	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:17:ARG:CZ	39:BR:89:ARG:HB2	1.67	1.23
24:BA:2459:A:H2'	24:BA:2460:U:O4'	1.30	1.23
34:BM:43:THR:HB	34:BM:44:PRO:CD	1.70	1.22
24:BA:2748:A:N3	31:BH:67:LEU:HD21	1.53	1.22
1:AA:901:A:C2	1:AA:902:G:H1'	1.74	1.22
1:AA:1062:U:H2'	1:AA:1063:C:C5	1.74	1.21
18:AS:18:ARG:NH1	18:AS:35:LYS:HB2	1.53	1.21
29:BF:4:VAL:O	29:BF:20:LEU:CD1	1.87	1.21
40:BS:33:LYS:HA	40:BS:46:GLU:O	1.41	1.21
24:BA:1312:U:H2'	24:BA:1313:U:O4'	1.34	1.21
41:BT:89:GLU:HB3	42:BU:52:VAL:N	1.56	1.21
1:AA:1261:A:H61	1:AA:1274:G:H1'	1.04	1.21
38:BQ:77:ARG:HH11	38:BQ:77:ARG:HB2	1.06	1.21
29:BF:19:GLU:O	29:BF:20:LEU:HD23	1.34	1.20
24:BA:811:U:O4	36:BO:22:GLY:HA3	1.37	1.20
1:AA:449:C:C2	1:AA:450:G:H1'	1.76	1.20
24:BA:931:G:C8	24:BA:932:G:H1'	1.76	1.20
24:BA:1206:G:H2'	24:BA:1207:C:O4'	1.39	1.19
40:BS:53:ARG:HB2	40:BS:65:LYS:O	1.42	1.19
6:AG:19:LEU:HA	6:AG:21:LEU:HD12	1.20	1.19
24:BA:2333:A:H1'	24:BA:2335:A:N3	1.54	1.19
50:B3:65:ASP:HA	50:B3:68:ARG:HH22	1.06	1.19
27:BD:246:PRO:HD2	27:BD:250:TRP:HB3	1.21	1.19
40:BS:32:TYR:O	40:BS:47:GLY:HA2	1.41	1.19
24:BA:2553:G:N2	24:BA:2554:U:H1'	1.56	1.19
38:BQ:32:GLY:O	38:BQ:115:GLU:HB2	1.39	1.19
41:BT:15:LYS:HA	41:BT:18:LEU:HD23	1.25	1.18
1:AA:41:G:H2'	1:AA:42:G:H8	1.08	1.18
24:BA:2375:G:H21	24:BA:2378:A:N6	1.41	1.18
10:AK:6:ILE:HG23	10:AK:7:ALA:H	1.06	1.18
29:BF:7:TYR:O	29:BF:18:ARG:HG3	1.44	1.18
35:BN:25:LEU:HB3	35:BN:38:VAL:O	1.38	1.18
24:BA:280:C:O3'	24:BA:281:G:H3'	1.40	1.18
15:AP:24:GLY:HA3	15:AP:66:LEU:HB2	1.26	1.18
36:BO:73:GLY:HA2	36:BO:111:ARG:NH1	1.56	1.18
24:BA:1475:G:H1	24:BA:1477:A:N6	1.42	1.18
24:BA:197:A:N6	24:BA:248:G:H22	1.41	1.18
49:B2:6:VAL:HG23	49:B2:35:ARG:HG3	1.22	1.18
24:BA:1203:G:C6	24:BA:1241:A:H8	1.60	1.18
24:BA:586:A:H5'	29:BF:89:VAL:HG21	1.19	1.18
24:BA:729:G:H2'	24:BA:730:C:H4'	1.18	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:44:LYS:O	48:B1:48:LEU:HB2	1.41	1.17
42:BU:27:ALA:HB1	42:BU:33:VAL:HG11	1.26	1.17
15:AP:23:TYR:HB3	15:AP:67:GLU:HA	1.27	1.17
27:BD:55:GLY:N	27:BD:219:PRO:HD2	1.59	1.17
24:BA:2132:U:H3'	24:BA:2133:G:C5'	1.75	1.17
22:AW:44:ALA:HB3	22:AW:91:LEU:HD12	1.19	1.17
27:BD:142:VAL:O	27:BD:163:ALA:HB3	1.41	1.17
24:BA:1804:C:H4'	27:BD:250:TRP:CH2	1.78	1.17
14:AO:36:VAL:O	14:AO:58:VAL:HG13	1.44	1.17
24:BA:1677:A:H2'	24:BA:1678:G:C8	1.80	1.17
24:BA:2447:G:H5''	24:BA:2500:U:OP2	1.44	1.17
40:BS:64:ARG:HD3	40:BS:65:LYS:H	1.05	1.17
1:AA:1443:G:C4'	1:AA:1446:A:H5'	1.73	1.17
38:BQ:78:LYS:O	38:BQ:82:GLU:HB2	0.99	1.17
20:AU:58:LEU:HB3	20:AU:62:GLU:HB3	1.27	1.17
54:B7:50:LEU:HD23	54:B7:51:ALA:H	1.08	1.17
24:BA:2239:G:H3'	24:BA:2240:C:H5''	1.23	1.17
24:BA:2701:C:H3'	24:BA:2702:U:H5''	1.17	1.17
24:BA:559:G:H2'	24:BA:560:C:C6	1.79	1.17
37:BP:124:LYS:HB3	37:BP:124:LYS:HZ2	1.01	1.17
37:BP:48:GLU:O	37:BP:51:ARG:HG3	1.44	1.17
21:AV:5:LEU:HB2	21:AV:9:VAL:HG22	1.17	1.16
52:B5:36:LEU:O	52:B5:51:GLU:HB3	1.44	1.16
34:BM:89:LYS:HE2	34:BM:89:LYS:H	1.00	1.16
37:BP:34:LEU:O	37:BP:103:MET:HB2	1.43	1.16
42:BU:6:LYS:HB3	42:BU:10:LYS:HA	1.25	1.16
1:AA:665:A:H2'	1:AA:725:G:N2	1.58	1.16
12:AM:50:ILE:HA	12:AM:60:ARG:HG3	1.21	1.16
24:BA:1203:G:C6	24:BA:1241:A:C8	2.33	1.16
24:BA:2658:C:C2'	24:BA:2659:G:H5'	1.74	1.16
10:AK:84:ARG:HB3	10:AK:84:ARG:HH11	1.07	1.16
24:BA:1270:C:H1'	24:BA:1325:G:N7	1.58	1.16
39:BR:62:LYS:HD2	39:BR:64:GLU:HB3	1.17	1.16
6:AG:59:ARG:NH1	6:AG:59:ARG:HA	1.61	1.16
19:AT:5:VAL:HG22	19:AT:60:ILE:HA	1.18	1.16
37:BP:44:ALA:O	37:BP:47:ILE:HB	1.40	1.16
9:AJ:76:ARG:HB2	9:AJ:156:TRP:HE1	1.01	1.16
24:BA:1555:G:H2'	24:BA:1556:C:C6	1.80	1.16
38:BQ:25:ALA:O	38:BQ:29:LEU:HG	1.42	1.16
50:B3:66:SER:HA	50:B3:69:LYS:HD2	1.27	1.16
24:BA:28:A:H1'	24:BA:513:A:N1	1.61	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1543:A:H3'	24:BA:1544:C:H4'	1.20	1.16
27:BD:127:VAL:HA	27:BD:193:VAL:HG12	1.25	1.16
28:BE:117:MET:SD	28:BE:136:ARG:HG2	1.86	1.16
47:BZ:5:LYS:HG2	47:BZ:6:GLY:H	1.05	1.16
3:AB:52:G:O4'	24:BA:2471:C:H5'	1.44	1.16
9:AJ:126:ASP:HA	9:AJ:131:LYS:HE3	1.25	1.16
29:BF:30:PRO:O	29:BF:33:LEU:HG	1.46	1.16
24:BA:675:A:H4'	29:BF:67:GLN:HE22	1.06	1.16
1:AA:953:G:O2'	15:AP:125:ARG:HA	1.46	1.15
18:AS:39:TYR:HB2	18:AS:49:LEU:HD13	1.17	1.15
34:BM:69:GLN:HE22	34:BM:87:LEU:HD22	1.10	1.15
42:BU:40:LEU:HG	42:BU:55:ALA:N	1.60	1.15
27:BD:181:GLU:HG3	27:BD:270:ILE:HB	1.26	1.15
31:BH:38:SER:HB3	31:BH:41:MET:HG3	1.19	1.15
1:AA:1405:G:N2	1:AA:1517:G:H22	1.41	1.15
1:AA:266:G:H3'	19:AT:67:LYS:HD2	1.22	1.15
52:B5:20:ASN:HD22	52:B5:41:PRO:HB2	1.09	1.15
24:BA:820:A:H2'	24:BA:821:A:H5'	1.28	1.15
24:BA:966:G:H1'	24:BA:2267:A:N6	1.61	1.15
35:BN:62:VAL:HG23	35:BN:83:ALA:HA	1.26	1.15
36:BO:107:LYS:NZ	36:BO:110:TYR:HB3	1.61	1.15
38:BQ:86:ARG:HB3	38:BQ:86:ARG:HH11	1.09	1.15
24:BA:1202:C:C5	24:BA:1203:G:C1'	2.29	1.15
24:BA:1542:G:H1'	24:BA:1543:A:C6	1.81	1.15
42:BU:14:VAL:HG11	42:BU:19:LYS:HG3	1.26	1.15
1:AA:764:C:H2'	1:AA:765:G:C8	1.81	1.15
27:BD:142:VAL:HG12	27:BD:193:VAL:HA	1.28	1.15
46:BY:57:ILE:HG12	46:BY:70:LEU:HB3	1.16	1.15
7:AH:48:ALA:CB	7:AH:53:LEU:HB3	1.77	1.15
20:AU:74:ARG:HG2	20:AU:81:PHE:HB3	1.25	1.15
24:BA:1646:C:H3'	24:BA:1647:G:H5'	1.23	1.15
28:BE:116:VAL:HG21	28:BE:138:PRO:HA	1.17	1.15
38:BQ:32:GLY:CA	38:BQ:116:LEU:HD21	1.76	1.15
24:BA:783:A:H5''	24:BA:2589:A:OP1	1.46	1.15
6:AG:31:CYS:SG	6:AG:33:MET:SD	2.44	1.15
24:BA:2416:C:C2'	24:BA:2417:C:H5''	1.77	1.15
24:BA:2712:U:H2'	24:BA:2712(A):A:H5''	1.28	1.15
25:BB:71:C:C2'	25:BB:72:G:H5'	1.76	1.15
45:BX:22:GLY:HA3	45:BX:73:ARG:NH1	1.60	1.15
1:AA:888:G:N2	1:AA:909:A:H62	1.41	1.14
38:BQ:78:LYS:O	38:BQ:82:GLU:CB	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:121:VAL:HB	6:AG:136:PRO:HG3	1.26	1.14
24:BA:1203:G:C6	24:BA:1240:U:C2	2.35	1.14
24:BA:2416:C:H2'	24:BA:2417:C:H5''	1.16	1.14
43:BV:19:LEU:HB3	51:B4:25:LEU:HD13	1.20	1.14
32:BK:21:VAL:HB	32:BK:26:ALA:HB2	1.24	1.14
46:BY:24:LEU:HB2	46:BY:41:LEU:HD21	1.26	1.14
51:B4:58:LEU:HD22	51:B4:59:GLU:H	1.03	1.14
27:BD:105:ILE:HG13	27:BD:106:ILE:HG12	1.29	1.14
24:BA:2489:G:H2'	24:BA:2490:G:C8	1.82	1.14
27:BD:196:VAL:HG12	27:BD:197:GLY:H	1.03	1.14
7:AH:31:LEU:HD12	7:AH:129:ILE:HG23	1.28	1.14
22:AW:87:LYS:HG3	22:AW:91:LEU:HD21	1.30	1.14
24:BA:2034:U:H3'	24:BA:2035:G:H5''	1.16	1.14
24:BA:2581:G:N1	24:BA:2610:C:H2'	1.62	1.14
24:BA:2596:U:H2'	27:BD:242:ARG:NH1	1.62	1.14
26:BC:19:ILE:HD12	26:BC:223:ARG:HB3	1.26	1.14
14:AO:117:ARG:HH21	14:AO:124:LYS:HA	1.06	1.14
24:BA:2286:A:H4'	24:BA:2287:A:H1'	1.29	1.14
30:BG:61:ALA:HB2	30:BG:67:LYS:HB3	1.22	1.14
9:AJ:103:TRP:CH2	9:AJ:138:LYS:HA	1.81	1.14
13:AN:57:THR:HG23	13:AN:60:ALA:H	1.13	1.14
24:BA:662:G:H4'	36:BO:18:ARG:H	1.11	1.14
1:AA:80:G:H2'	1:AA:81:G:O4'	1.46	1.14
19:AT:25:ARG:HH21	19:AT:40:LYS:HD3	1.07	1.14
28:BE:13:ARG:NH2	28:BE:20:ALA:HB3	1.61	1.14
11:AL:55:ALA:CB	11:AL:58:HIS:CE1	2.30	1.14
30:BG:68:PRO:HB3	30:BG:72:ARG:HH22	1.00	1.14
34:BM:23:LEU:HD12	34:BM:63:THR:HG23	1.26	1.14
32:BK:93:THR:HG22	32:BK:96:ASP:CG	1.68	1.14
24:BA:1568:G:OP1	27:BD:61:LEU:HB2	1.47	1.13
39:BR:74:ALA:HB1	39:BR:108:GLY:CA	1.76	1.13
24:BA:2805:G:H3'	24:BA:2807:G:H5''	1.26	1.13
30:BG:170:ARG:O	30:BG:174:GLU:HB3	1.48	1.13
40:BS:64:ARG:HA	40:BS:64:ARG:NH1	1.61	1.13
21:AV:53:ASN:HD21	21:AV:56:GLN:HB2	1.05	1.13
49:B2:9:VAL:HG23	49:B2:10:LYS:H	1.07	1.13
24:BA:2327:A:H2'	24:BA:2328:A:H8	1.09	1.13
27:BD:196:VAL:CG1	27:BD:197:GLY:H	1.61	1.13
32:BK:4:ILE:O	32:BK:36:ALA:HB1	1.45	1.13
24:BA:1252:G:H8	24:BA:1253:A:H1'	1.09	1.13
24:BA:1275:A:H2	38:BQ:16:HIS:HA	1.11	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2047:U:H2'	24:BA:2048:G:H8	1.02	1.13
24:BA:2431:U:H2'	24:BA:2432:A:H5''	1.27	1.13
40:BS:50:ILE:CB	40:BS:66:VAL:HB	1.77	1.13
32:BK:127:VAL:HG22	32:BK:141:LYS:HA	1.26	1.13
6:AG:55:ALA:O	6:AG:59:ARG:HG2	1.48	1.13
14:AO:37:CYS:HA	14:AO:58:VAL:HG22	1.20	1.13
24:BA:612:G:H4'	24:BA:616:A:N6	1.62	1.13
38:BQ:105:ARG:HA	38:BQ:105:ARG:CZ	1.79	1.13
24:BA:1128:A:H62	24:BA:2518:A:N6	1.45	1.13
24:BA:2278:A:OP1	37:BP:14:ARG:HG3	1.47	1.13
2:A1:29:G:H2'	2:A1:30:U:H5''	1.18	1.13
24:BA:974:G:H3'	24:BA:974(A):C:H5''	1.23	1.13
30:BG:19:LEU:HG	30:BG:22:ARG:CZ	1.77	1.13
46:BY:176:PRO:HB2	46:BY:179:ASP:HA	1.14	1.13
19:AT:5:VAL:HG13	19:AT:59:ILE:O	1.49	1.13
24:BA:1024:G:N2	24:BA:1139:G:H1	1.44	1.13
24:BA:1956:U:H2'	24:BA:1957:C:C6	1.83	1.13
32:BK:54:GLN:HE21	32:BK:58:LEU:HG	0.96	1.13
1:AA:551:U:H2'	1:AA:552:U:C6	1.84	1.13
8:AI:3:ARG:HA	8:AI:67:MET:HE1	1.25	1.13
28:BE:195:LEU:HD13	28:BE:196:VAL:N	1.60	1.12
29:BF:200:GLU:OE1	29:BF:201:VAL:HG23	1.49	1.12
34:BM:27:ALA:HA	34:BM:30:ILE:HD12	1.31	1.12
1:AA:599:C:H4'	10:AK:130:GLY:HA3	1.17	1.12
24:BA:953:A:H2'	24:BA:954:G:H5'	1.15	1.12
1:AA:47:C:H4'	1:AA:48:C:H5''	1.30	1.12
24:BA:287:C:H2'	24:BA:288:C:C5	1.84	1.12
37:BP:109:VAL:HG11	37:BP:114:ALA:HB2	1.30	1.12
1:AA:1077:G:N2	1:AA:1079:G:H3'	1.63	1.12
30:BG:41:GLN:HE22	30:BG:155:MET:HG3	1.06	1.12
35:BN:39:ILE:HG12	35:BN:59:LYS:HZ1	1.11	1.12
1:AA:371:G:H2'	1:AA:372:C:H5'	1.13	1.12
9:AJ:46:ALA:HA	9:AJ:49:ILE:HD13	1.29	1.12
24:BA:2332:U:H4'	24:BA:2336:A:H62	1.07	1.12
39:BR:11:LYS:O	39:BR:14:VAL:HB	1.47	1.12
47:BZ:12:ASN:HA	47:BZ:14:ARG:CZ	1.78	1.12
18:AS:75:ARG:HG2	18:AS:80:PHE:HB3	1.30	1.12
48:B1:52:ILE:HA	48:B1:55:LEU:HD22	1.29	1.12
24:BA:242:G:H3'	54:B7:4:MET:HG3	1.19	1.12
27:BD:244:ARG:N	27:BD:245:PRO:HD3	1.60	1.12
40:BS:30:VAL:CG2	40:BS:90:GLN:HA	1.80	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:28:LYS:HE2	45:BX:28:LYS:H	1.11	1.12
26:BC:97:GLU:HA	26:BC:100:ILE:HD12	1.30	1.12
24:BA:2496:C:OP1	37:BP:82:ARG:HG3	1.46	1.12
54:B7:34:TRP:C	54:B7:36:LYS:H	1.41	1.12
24:BA:2447:G:N7	24:BA:2500:U:H3'	1.62	1.12
24:BA:269:U:H5''	24:BA:270(Y):G:H2'	1.23	1.12
27:BD:168:ARG:HG2	27:BD:173:VAL:HG13	1.28	1.12
27:BD:7:LYS:HG2	27:BD:25:THR:HG22	1.15	1.12
35:BN:10:VAL:HG13	35:BN:11:ALA:H	1.06	1.12
38:BQ:79:LEU:HD23	38:BQ:80:PHE:N	1.64	1.12
1:AA:939:G:H5''	9:AJ:102:ARG:NH2	1.64	1.12
13:AN:61:ALA:HB1	13:AN:94:ALA:HB2	1.13	1.12
15:AP:48:LEU:HD21	15:AP:52:GLU:HB2	1.28	1.12
24:BA:2416:C:H5''	36:BO:59:LEU:HB2	1.16	1.12
44:BW:44:GLU:HG3	44:BW:51:VAL:HG23	1.28	1.12
5:AF:126:ARG:HB3	5:AF:128:PHE:HE1	1.03	1.12
24:BA:1466:G:H2'	24:BA:1547:C:H41	1.10	1.12
24:BA:2848:G:H22	24:BA:2867:G:H1'	1.12	1.12
31:BH:103:LEU:HB2	31:BH:115:VAL:HB	1.24	1.12
1:AA:408:A:H2'	1:AA:409:G:C8	1.85	1.11
21:AV:41:VAL:HB	21:AV:42:PRO:HD2	1.24	1.11
24:BA:270(C):C:H2'	24:BA:270(D):C:H6	1.10	1.11
30:BG:130:ASN:O	30:BG:159:VAL:HG23	1.50	1.11
34:BM:46:VAL:HG12	34:BM:47:ALA:H	0.98	1.11
36:BO:46:LYS:HB2	36:BO:49:ARG:HB2	1.31	1.11
37:BP:137:TYR:O	37:BP:138:ASP:CG	1.86	1.11
38:BQ:99:LYS:HD2	38:BQ:99:LYS:H	1.05	1.11
9:AJ:115:ARG:HB2	9:AJ:118:VAL:HG23	1.26	1.11
48:B1:27:LEU:HA	48:B1:30:LEU:HG	1.24	1.11
24:BA:261:G:H4'	24:BA:608:A:C2	1.84	1.11
24:BA:828:U:H2'	24:BA:829:A:H8	1.01	1.11
28:BE:8:LYS:HZ2	28:BE:9:VAL:HG13	1.15	1.11
40:BS:50:ILE:HB	40:BS:66:VAL:CB	1.80	1.11
40:BS:62:THR:HG22	40:BS:79:HIS:CA	1.79	1.11
1:AA:1080:A:H5'	7:AH:14:ARG:NH2	1.65	1.11
4:AE:219:VAL:HG12	4:AE:223:ILE:HD11	1.25	1.11
24:BA:2780:G:N2	34:BM:97:ARG:HH12	1.46	1.11
37:BP:23:GLY:HA3	37:BP:101:ARG:NH2	1.63	1.11
2:A1:30:U:H2'	2:A1:31:U:O4'	1.49	1.11
1:AA:587:G:H1'	1:AA:755:G:N2	1.65	1.11
24:BA:1872:A:H2'	24:BA:1878:G:H5'	1.24	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2564:A:H2'	24:BA:2565:A:C8	1.84	1.11
27:BD:44:ASN:HB2	27:BD:217:ARG:HH22	1.15	1.11
24:BA:2148:G:H2'	24:BA:2149:G:C8	1.86	1.11
3:AC:40:C:H2'	3:AC:41:C:H5'	1.28	1.11
24:BA:2416:C:OP1	36:BO:59:LEU:HA	1.49	1.11
24:BA:1012:U:O4	34:BM:25:ARG:HB3	1.47	1.11
39:BR:3:ARG:HG2	39:BR:4:LEU:HG	1.31	1.11
14:AO:56:ALA:HB3	14:AO:68:ALA:O	1.45	1.11
49:B2:4:LEU:HB3	49:B2:37:LEU:HD23	1.28	1.11
24:BA:1520:U:H2'	24:BA:1521:G:H5''	1.13	1.11
24:BA:1718:G:H2'	24:BA:1725:G:C8	1.84	1.11
24:BA:221:A:H4'	24:BA:222:A:H5'	1.15	1.11
25:BB:101:A:H2'	25:BB:102:G:H8	1.13	1.11
27:BD:246:PRO:CD	27:BD:250:TRP:HB3	1.80	1.11
28:BE:104:VAL:HG22	28:BE:198:VAL:HG13	1.29	1.11
41:BT:44:ASN:HD21	42:BU:78:LYS:HG2	1.05	1.11
3:AD:18:G:H4'	3:AD:60:U:H3	1.12	1.11
26:BC:100:ILE:HG23	26:BC:127:LEU:HG	1.28	1.11
1:AA:955:U:H1'	1:AA:1227:A:H61	1.14	1.11
24:BA:2346:A:H1'	24:BA:2383:G:C8	1.84	1.11
24:BA:775:G:H2'	24:BA:794:G:N7	1.66	1.11
43:BV:69:LEU:HD23	43:BV:107:LEU:HD21	1.33	1.11
20:AU:66:LEU:HD12	20:AU:67:ALA:N	1.65	1.11
24:BA:1324:G:H1'	24:BA:1616:A:N6	1.65	1.11
27:BD:127:VAL:HG13	27:BD:194:GLY:HA3	1.25	1.11
31:BH:35:VAL:HG11	31:BH:72:ILE:HA	1.20	1.11
24:BA:2047:U:H2'	24:BA:2048:G:C8	1.84	1.11
24:BA:636:G:H22	36:BO:75:ILE:HD12	0.94	1.11
24:BA:869:G:H2'	24:BA:870:A:H5''	1.11	1.11
27:BD:134:ARG:HA	27:BD:168:ARG:NH1	1.63	1.11
7:AH:109:ILE:HG21	7:AH:135:THR:HG21	1.18	1.11
50:B3:5:ILE:HG22	50:B3:7:PRO:HD2	1.18	1.11
24:BA:2254:C:H2'	24:BA:2255:G:H5'	1.29	1.11
24:BA:452:G:H3'	24:BA:453:C:H5''	1.24	1.11
35:BN:3:GLN:HE22	35:BN:33:ALA:CB	1.63	1.11
41:BT:89:GLU:HG2	42:BU:52:VAL:HG23	1.11	1.11
3:AB:74:C:H42	24:BA:2555:U:H2'	1.03	1.10
7:AH:121:LYS:NZ	7:AH:122:GLU:H	1.48	1.10
7:AH:144:THR:HG22	7:AH:146:ALA:H	1.11	1.10
10:AK:37:ARG:HD3	10:AK:41:ARG:HG3	1.27	1.10
20:AU:72:ARG:HA	20:AU:75:ILE:HD12	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:112:U:H3'	24:BA:113:G:H5''	1.12	1.10
24:BA:1598:C:H5''	44:BW:36:LYS:HB3	1.27	1.10
24:BA:364:C:H2'	24:BA:365:C:C6	1.86	1.10
24:BA:781:A:H1'	27:BD:222:ARG:HH12	1.07	1.10
37:BP:7:MET:H	37:BP:70:PRO:HG2	1.04	1.10
38:BQ:88:ARG:HH11	38:BQ:88:ARG:HB2	0.98	1.10
10:AK:22:GLU:HA	10:AK:63:LEU:HD22	1.33	1.10
15:AP:97:PRO:HG2	15:AP:103:THR:HG22	1.15	1.10
15:AP:60:VAL:HA	15:AP:63:THR:HG22	1.32	1.10
51:B4:20:ARG:O	51:B4:23:HIS:HB2	1.49	1.10
35:BN:96:THR:HA	35:BN:117:LEU:HD11	1.26	1.10
6:AG:101:LEU:O	6:AG:104:VAL:HG22	1.49	1.10
14:AO:23:LYS:HE3	14:AO:23:LYS:HA	1.29	1.10
53:B6:21:ARG:HB3	53:B6:31:LEU:HD11	1.30	1.10
40:BS:62:THR:CG2	40:BS:79:HIS:HA	1.80	1.10
1:AA:371:G:C2'	1:AA:372:C:H5'	1.80	1.10
4:AE:56:ARG:NH1	4:AE:56:ARG:HB3	1.66	1.10
10:AK:86:ILE:HG21	10:AK:133:LEU:HB2	1.26	1.10
11:AL:50:LEU:HD11	11:AL:56:LEU:HA	1.32	1.10
24:BA:220:G:H4'	24:BA:234:C:H4'	1.28	1.10
24:BA:2572:A:H4'	24:BA:2573:C:H5''	1.19	1.10
26:BC:213:TYR:HB3	26:BC:223:ARG:HA	1.33	1.10
40:BS:54:ARG:HG2	40:BS:100:TYR:HB3	1.29	1.10
48:B1:55:LEU:O	48:B1:58:VAL:HG13	1.51	1.10
53:B6:32:LYS:HA	53:B6:35:ARG:HH11	1.06	1.10
1:AA:313:A:H2'	1:AA:314:C:C6	1.85	1.10
52:B5:16:CYS:HB2	52:B5:49:HIS:HA	1.16	1.10
25:BB:46:A:H2'	25:BB:47:C:C6	1.86	1.10
30:BG:53:LEU:HG	30:BG:72:ARG:HD2	1.12	1.10
30:BG:75:LYS:HG2	30:BG:84:LYS:HB2	1.27	1.10
34:BM:89:LYS:CE	34:BM:89:LYS:H	1.62	1.10
35:BN:39:ILE:HG12	35:BN:59:LYS:NZ	1.67	1.10
35:BN:68:GLU:OE2	35:BN:76:ALA:HB3	1.51	1.10
4:AE:213:LEU:HD22	4:AE:214:ILE:HD13	1.29	1.10
6:AG:20:TYR:HA	6:AG:26:CYS:SG	1.92	1.10
13:AN:58:PRO:HB2	13:AN:93:GLN:HB2	1.31	1.10
24:BA:965:C:H5'	24:BA:2273:A:H1'	1.30	1.10
24:BA:2725:A:H2'	24:BA:2726:U:H3'	1.30	1.10
24:BA:323:G:H2'	29:BF:170:LEU:HB2	1.34	1.10
27:BD:183:ARG:HG2	27:BD:268:ARG:HB2	1.25	1.10
35:BN:64:ARG:HH12	35:BN:77:ILE:HB	1.03	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:81:VAL:HB	32:BK:88:ILE:HG12	1.31	1.10
26:BC:180:PHE:HB3	26:BC:185:LEU:HD21	1.30	1.10
8:AI:23:LYS:O	8:AI:26:ILE:HB	1.52	1.10
22:AW:50:GLU:H	22:AW:99:LEU:HD12	1.03	1.10
55:B8:17:ILE:HD12	55:B8:26:ILE:HD12	1.24	1.10
24:BA:1174:A:H2'	24:BA:1175:U:H5''	1.30	1.10
24:BA:2392:A:H1'	36:BO:55:ARG:NH1	1.66	1.10
42:BU:64:HIS:HB3	42:BU:96:ILE:HA	1.28	1.10
43:BV:11:ARG:HB2	43:BV:98:LYS:HE3	1.30	1.10
4:AE:184:VAL:O	4:AE:198:ASP:HB2	1.52	1.10
50:B3:7:PRO:HD3	50:B3:56:VAL:HG13	1.34	1.10
55:B8:20:HIS:HB2	55:B8:22:ARG:HG3	1.30	1.10
28:BE:8:LYS:HA	28:BE:8:LYS:HE2	1.33	1.10
33:BL:23:VAL:HG13	33:BL:27:LEU:HD12	1.11	1.10
35:BN:60:ALA:O	35:BN:83:ALA:HB1	1.51	1.10
37:BP:106:VAL:HG22	37:BP:107:ALA:H	1.00	1.10
46:BY:4:ARG:HG2	46:BY:5:LEU:H	1.14	1.10
4:AE:88:ALA:HB2	4:AE:219:VAL:HG22	1.13	1.09
1:AA:684:A:H4'	13:AN:12:ARG:HH22	1.13	1.09
16:AQ:58:LYS:HD3	16:AQ:59:ALA:N	1.67	1.09
21:AV:69:HIS:HB2	21:AV:74:PHE:HZ	1.17	1.09
24:BA:2421:G:H2'	24:BA:2422:A:C8	1.87	1.09
1:AA:677:U:H2'	1:AA:678:U:C5	1.86	1.09
1:AA:761:G:H5'	19:AT:102:GLY:HA3	1.30	1.09
4:AE:59:GLU:HB3	4:AE:221:LEU:HD21	1.29	1.09
6:AG:82:ALA:HB3	6:AG:89:THR:HG23	1.34	1.09
30:BG:148:MET:HG2	30:BG:151:ALA:HA	1.17	1.09
41:BT:88:ILE:C	42:BU:52:VAL:HA	1.70	1.09
41:BT:98:LEU:HD12	41:BT:105:VAL:HG21	1.34	1.09
1:AA:263:A:H2'	1:AA:264:U:H5''	1.19	1.09
50:B3:68:ARG:HH11	50:B3:68:ARG:N	1.49	1.09
24:BA:1967:C:H42	24:BA:1968:G:N2	1.48	1.09
24:BA:2564:A:H2'	24:BA:2565:A:H8	1.04	1.09
24:BA:265:A:H3'	24:BA:265:A:H8	1.08	1.09
24:BA:2645:G:H4'	24:BA:2732:G:O2'	1.49	1.09
24:BA:2748:A:H1'	31:BH:67:LEU:HD22	1.27	1.09
43:BV:13:SER:OG	43:BV:14:PRO:HD2	1.50	1.09
24:BA:1535:U:H2'	24:BA:1536:A:O4'	1.51	1.09
24:BA:2371:G:H4'	52:B5:46:HIS:HB3	1.34	1.09
24:BA:2581:G:H1	24:BA:2610:C:H2'	0.97	1.09
25:BB:71:C:H2'	25:BB:72:G:H5'	1.18	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:13:ARG:HG3	28:BE:22:PRO:HD3	1.15	1.09
35:BN:64:ARG:HH11	35:BN:67:LYS:N	1.50	1.09
26:BC:22:ILE:HG21	26:BC:190:ARG:HH12	1.16	1.09
24:BA:1114:G:N2	24:BA:1115:G:H1'	1.65	1.09
24:BA:1488:G:H2'	24:BA:1489:U:H5'	1.33	1.09
52:B5:19:ARG:NH1	52:B5:41:PRO:HG3	1.66	1.09
24:BA:1613:G:H3'	24:BA:1614:A:H5'	1.32	1.09
24:BA:2572:A:H4'	24:BA:2573:C:C5'	1.81	1.09
24:BA:712:G:H2'	24:BA:713:G:H8	0.98	1.09
27:BD:169:GLU:HB3	27:BD:184:LYS:HZ1	1.16	1.09
31:BH:98:LEU:HG	31:BH:123:PHE:HB2	1.33	1.09
46:BY:176:PRO:CB	46:BY:179:ASP:HA	1.82	1.09
20:AU:70:ILE:HG22	20:AU:74:ARG:HE	1.18	1.09
24:BA:1405:U:H2'	24:BA:1406:U:C6	1.86	1.09
28:BE:146:THR:HB	28:BE:147:PRO:HD3	1.30	1.09
4:AE:174:VAL:O	4:AE:178:ARG:HG2	1.50	1.09
17:AR:62:GLN:HE21	17:AR:66:LEU:HD21	1.09	1.09
24:BA:1788:C:H2'	27:BD:222:ARG:NH2	1.66	1.09
24:BA:2654:A:H1'	24:BA:2656:U:O4	1.51	1.09
24:BA:270(X):G:H2'	24:BA:270(Y):G:H5'	1.32	1.09
27:BD:147:LEU:HG	27:BD:154:LYS:HD2	1.25	1.09
29:BF:197:ASP:HA	29:BF:200:GLU:CG	1.81	1.09
30:BG:92:VAL:HG13	30:BG:94:LEU:HD13	1.25	1.09
35:BN:19:ILE:HG22	35:BN:43:VAL:HA	1.34	1.09
5:AF:150:LYS:HB2	5:AF:173:VAL:HG21	1.33	1.09
52:B5:19:ARG:HH11	52:B5:19:ARG:HG2	1.12	1.09
54:B7:8:LYS:HD3	54:B7:11:LYS:HZ2	1.08	1.09
24:BA:1050:A:H2	24:BA:2751:G:H5'	1.12	1.09
24:BA:1085:A:H1'	24:BA:1086:A:H4'	1.32	1.09
24:BA:1754:C:O2	24:BA:1755:A:H1'	1.50	1.09
27:BD:146:GLU:HB2	27:BD:154:LYS:H	1.15	1.09
30:BG:49:ASP:O	30:BG:53:LEU:HB2	1.52	1.09
46:BY:98:MET:HG3	46:BY:133:ILE:HG21	1.35	1.09
24:BA:2148:G:H2'	24:BA:2149:G:H8	1.00	1.09
30:BG:91:ARG:HB2	30:BG:91:ARG:HH21	1.05	1.09
1:AA:38:G:H22	1:AA:397:A:C5'	1.66	1.09
24:BA:1475:G:N1	24:BA:1477:A:N6	2.01	1.09
24:BA:2344:U:H5''	52:B5:38:LYS:HG3	1.14	1.09
3:AB:63:G:H4'	24:BA:2482:G:O3'	1.49	1.09
24:BA:545:G:H1'	24:BA:549:G:H22	1.14	1.09
31:BH:104:GLU:O	31:BH:113:VAL:HB	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:62:VAL:O	35:BN:63:VAL:HG22	1.52	1.09
41:BT:55:ARG:HG3	41:BT:58:ARG:HH21	1.05	1.09
1:AA:570:G:H5'	1:AA:820:U:H1'	1.33	1.09
8:AI:6:VAL:HG22	8:AI:8:ILE:HD11	1.33	1.09
24:BA:2421:G:H2'	24:BA:2422:A:H8	1.04	1.09
28:BE:36:ARG:HG3	28:BE:79:ARG:HH11	1.06	1.09
28:BE:45:THR:HB	28:BE:81:ILE:HA	1.10	1.09
1:AA:770:C:H1'	1:AA:900:A:H2	1.12	1.08
5:AF:38:ARG:HH11	5:AF:38:ARG:HB3	0.94	1.08
10:AK:34:GLU:O	10:AK:37:ARG:HB3	1.53	1.08
10:AK:87:SER:HB2	10:AK:92:ARG:HA	1.18	1.08
16:AQ:45:ARG:HH11	16:AQ:45:ARG:HB2	1.17	1.08
24:BA:1813:G:H4'	27:BD:46:GLN:CB	1.80	1.08
29:BF:18:ARG:O	29:BF:19:GLU:HG3	1.50	1.08
30:BG:148:MET:HG2	30:BG:151:ALA:CA	1.82	1.08
34:BM:28:THR:O	34:BM:31:ALA:HB3	1.53	1.08
35:BN:122:LEU:N	40:BS:70:VAL:HG12	1.67	1.08
46:BY:55:HIS:CB	46:BY:101:PRO:HG3	1.83	1.08
1:AA:1107:C:H2'	1:AA:1108:G:H5'	1.09	1.08
1:AA:678:U:H2'	1:AA:679:C:C6	1.87	1.08
3:AC:6:G:H2'	3:AC:7:A:H8	1.15	1.08
5:AF:189:ALA:HB1	5:AF:196:LEU:HG	1.17	1.08
9:AJ:155:ARG:HA	9:AJ:155:ARG:CZ	1.82	1.08
17:AR:77:ARG:HH12	17:AR:81:LEU:HB2	1.08	1.08
49:B2:3:ARG:NH1	49:B2:3:ARG:HB3	1.66	1.08
24:BA:2025:C:H5'	34:BM:78:TYR:OH	1.54	1.08
45:BX:42:VAL:H	45:BX:61:ILE:HB	1.11	1.08
54:B7:5:LYS:CB	54:B7:60:LEU:HA	1.83	1.08
24:BA:1024:G:H5''	24:BA:1025:G:C5'	1.82	1.08
24:BA:858:U:O2'	24:BA:2268:A:H2'	1.53	1.08
24:BA:976:C:H5'	24:BA:1156:A:H62	0.98	1.08
28:BE:118:LYS:HE2	28:BE:118:LYS:HA	1.35	1.08
36:BO:45:LEU:HD23	36:BO:46:LYS:HG3	1.27	1.08
44:BW:32:PRO:HA	44:BW:77:LYS:HD2	1.35	1.08
46:BY:94:GLU:H	46:BY:95:PRO:HD3	1.12	1.08
1:AA:262:A:H2'	1:AA:263:A:C8	1.87	1.08
1:AA:558:G:H3'	1:AA:559:A:H5''	1.26	1.08
50:B3:18:CYS:H	50:B3:33:VAL:HB	1.10	1.08
24:BA:1788:C:H2'	27:BD:222:ARG:HH21	1.09	1.08
24:BA:911:A:H8	24:BA:2264:C:H1'	1.08	1.08
28:BE:105:THR:HB	28:BE:166:THR:HB	1.29	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:164:ARG:HB2	29:BF:177:ALA:HB2	1.30	1.08
37:BP:34:LEU:HA	37:BP:131:ILE:HG12	1.23	1.08
39:BR:3:ARG:HG2	39:BR:4:LEU:H	1.04	1.08
41:BT:112:ARG:HH12	42:BU:50:PRO:HG3	0.95	1.08
13:AN:48:ILE:HD12	13:AN:63:LEU:HD22	1.31	1.08
24:BA:1637:A:H4'	24:BA:2711:A:O2'	1.52	1.08
27:BD:37:LEU:HD22	27:BD:64:ILE:HG22	1.10	1.08
29:BF:36:VAL:HG21	29:BF:183:VAL:HG21	1.36	1.08
37:BP:66:ILE:HG22	37:BP:67:ARG:H	0.92	1.08
40:BS:48:ILE:HD13	40:BS:50:ILE:HD13	1.35	1.08
43:BV:59:VAL:HA	43:BV:63:ASP:HA	1.27	1.08
35:BN:4:PRO:HG2	35:BN:5:GLN:H	1.14	1.08
37:BP:23:GLY:HA3	37:BP:101:ARG:HH21	0.99	1.08
1:AA:815:A:H1'	1:AA:817:C:N4	1.68	1.08
24:BA:729:G:H2'	24:BA:730:C:C4'	1.84	1.08
24:BA:811:U:O2'	24:BA:1251:C:H1'	1.53	1.08
27:BD:196:VAL:HG12	27:BD:197:GLY:N	1.66	1.08
24:BA:1566:A:C2	27:BD:215:LEU:HD13	1.88	1.08
38:BQ:98:LEU:O	38:BQ:112:ALA:HB1	1.54	1.08
41:BT:57:PHE:HA	41:BT:60:LEU:HG	1.34	1.08
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.18	1.08
17:AR:71:GLN:HG3	17:AR:75:PRO:HB3	1.32	1.08
24:BA:2348:U:H3'	54:B7:42:ARG:HH22	0.98	1.08
24:BA:1697:G:H3'	24:BA:1698:A:C5'	1.80	1.08
27:BD:147:LEU:HB3	27:BD:185:VAL:HG22	1.28	1.08
27:BD:5:LYS:HZ3	27:BD:31:LYS:NZ	1.51	1.08
28:BE:51:PHE:O	28:BE:74:PRO:HB3	1.53	1.08
46:BY:100:VAL:HG21	46:BY:137:ILE:HD12	1.33	1.08
20:AU:74:ARG:HB3	20:AU:81:PHE:HD2	1.10	1.08
24:BA:962:G:H2'	24:BA:963:U:C6	1.87	1.08
24:BA:988:A:H62	49:B2:13:ILE:HG13	1.13	1.08
24:BA:1520:U:C2'	24:BA:1521:G:H5''	1.82	1.08
24:BA:2058:A:H2'	24:BA:2059:A:H8	1.16	1.08
24:BA:684:G:H2'	24:BA:687:C:N4	1.69	1.08
30:BG:68:PRO:HB3	30:BG:72:ARG:NH2	1.67	1.08
41:BT:50:ARG:NH1	41:BT:50:ARG:HB2	1.69	1.08
2:A1:29:G:C2'	2:A1:30:U:H5''	1.84	1.07
1:AA:373:A:H1'	1:AA:481:G:H1'	1.35	1.07
24:BA:112:U:H3'	24:BA:113:G:C5'	1.84	1.07
24:BA:2658:C:H2'	24:BA:2659:G:C5'	1.82	1.07
24:BA:71:A:H4'	24:BA:72:U:H5''	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:157:VAL:HA	29:BF:176:LEU:O	1.54	1.07
29:BF:197:ASP:HA	29:BF:200:GLU:HG3	1.09	1.07
24:BA:1258:C:H5'	29:BF:84:VAL:HG21	1.34	1.07
34:BM:16:ILE:HD11	34:BM:52:VAL:HG22	1.17	1.07
35:BN:59:LYS:HA	35:BN:86:ILE:HD12	1.35	1.07
45:BX:14:LEU:HB2	45:BX:20:TYR:HA	1.32	1.07
20:AU:58:LEU:HB3	20:AU:62:GLU:CB	1.84	1.07
24:BA:1255:U:H5'	24:BA:1256:G:C5'	1.82	1.07
27:BD:6:PHE:O	27:BD:27:THR:HA	1.53	1.07
34:BM:4:TYR:HB2	41:BT:64:ARG:HH12	1.19	1.07
43:BV:23:LEU:HD11	51:B4:26:THR:O	1.54	1.07
6:AG:43:HIS:HB3	6:AG:46:LYS:HG3	1.30	1.07
11:AL:85:LEU:HD23	11:AL:96:LEU:HD13	1.31	1.07
14:AO:86:ARG:HH12	14:AO:119:LYS:HG3	1.09	1.07
20:AU:46:GLU:HB3	20:AU:85:LEU:HD13	1.37	1.07
24:BA:1186:G:H3'	24:BA:1187:G:H8	1.12	1.07
24:BA:2619:C:H4'	28:BE:152:LYS:HA	1.11	1.07
29:BF:158:THR:HG21	29:BF:196:LEU:H	0.98	1.07
35:BN:97:ARG:HG3	35:BN:117:LEU:HD21	1.37	1.07
36:BO:63:PRO:HB2	36:BO:64:LYS:HE2	1.34	1.07
37:BP:8:LYS:HE3	37:BP:93:TYR:HB3	1.34	1.07
24:BA:1649:G:H21	38:BQ:107:ASP:HB2	0.96	1.07
41:BT:105:VAL:O	41:BT:109:LEU:HG	1.53	1.07
4:AE:50:GLU:HG3	4:AE:200:ILE:O	1.52	1.07
34:BM:74:ARG:HG3	34:BM:82:LEU:HD22	1.21	1.07
2:A1:32:U:H2'	2:A1:33:U:H6	1.09	1.07
1:AA:291:C:H3'	1:AA:305:G:H22	1.11	1.07
7:AH:78:HIS:HB3	10:AK:107:LEU:HD21	1.31	1.07
8:AI:12:PRO:HB3	8:AI:58:GLY:HA2	1.31	1.07
17:AR:54:ARG:HA	17:AR:57:LEU:HD22	1.35	1.07
1:AA:43:C:H5''	18:AS:12:LYS:HB3	1.09	1.07
24:BA:2296:U:H1'	24:BA:2335:A:H61	1.15	1.07
25:BB:89(A):A:H2'	25:BB:90:C:H5'	1.08	1.07
29:BF:104:LYS:HG3	29:BF:108:LYS:HZ1	1.18	1.07
36:BO:23:PRO:HB2	36:BO:28:GLY:HA2	1.35	1.07
41:BT:65:ILE:HD12	41:BT:96:ALA:HB2	1.35	1.07
49:B2:13:ILE:HG23	49:B2:14:GLY:H	1.14	1.07
53:B6:28:ARG:HA	53:B6:31:LEU:HD12	1.08	1.07
24:BA:1827:C:H2'	24:BA:1828:G:O4'	1.53	1.07
24:BA:2025:C:H2'	24:BA:2026:C:C6	1.90	1.07
24:BA:27:G:H1	24:BA:512:G:H2'	1.11	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:966:G:H1'	24:BA:2267:A:H62	1.08	1.07
1:AA:1242:C:H5''	23:AX:10:ARG:HH12	1.14	1.07
1:AA:1277:C:H4'	1:AA:1282:C:H1'	1.36	1.07
4:AE:222:ILE:O	4:AE:226:ARG:HB2	1.53	1.07
24:BA:443:A:H5'	29:BF:45:ARG:NH1	1.69	1.07
39:BR:63:THR:O	39:BR:66:ALA:HB3	1.54	1.07
42:BU:43:GLU:H	42:BU:44:LYS:NZ	1.53	1.07
1:AA:558:G:C3'	1:AA:559:A:H5''	1.85	1.07
24:BA:2243:U:H2'	24:BA:2244:U:H6	1.12	1.07
24:BA:729:G:C2'	24:BA:730:C:H4'	1.84	1.07
29:BF:89:VAL:HG12	29:BF:90:PHE:H	0.99	1.07
40:BS:52:ILE:HA	40:BS:66:VAL:HG13	1.35	1.07
43:BV:17:VAL:O	43:BV:20:VAL:HG12	1.53	1.07
25:BB:76:G:OP2	46:BY:11:GLU:HA	1.54	1.07
1:AA:559:A:C4'	1:AA:560:U:H5'	1.82	1.07
5:AF:182:ILE:HA	5:AF:204:LEU:HG	1.37	1.07
12:AM:65:LEU:HD12	16:AQ:56:VAL:HG22	1.36	1.07
18:AS:49:LEU:HD11	18:AS:51:VAL:HG22	1.33	1.07
24:BA:2657:A:C2	24:BA:2665:A:H1'	1.90	1.07
24:BA:2832:U:H1'	24:BA:2834:G:H21	1.13	1.07
34:BM:15:LEU:HD21	34:BM:137:LYS:CA	1.84	1.07
37:BP:44:ALA:HA	37:BP:47:ILE:HD12	1.35	1.07
42:BU:17:GLY:HA3	42:BU:19:LYS:NZ	1.70	1.07
5:AF:20:SER:HB2	5:AF:40:ARG:HH22	1.13	1.07
22:AW:62:LEU:HA	22:AW:65:LYS:HG2	1.34	1.07
24:BA:2286:A:H2	52:B5:27:LYS:HB3	1.13	1.07
24:BA:1625:C:H2'	24:BA:1626:G:H4'	1.07	1.07
24:BA:2591:C:H2'	24:BA:2592:G:H8	1.01	1.07
46:BY:10:ARG:HB3	46:BY:36:LYS:HD2	1.36	1.07
1:AA:736:C:H5''	20:AU:72:ARG:HH22	1.11	1.06
52:B5:48:VAL:HG13	52:B5:49:HIS:H	1.20	1.06
24:BA:1029:A:H2'	24:BA:1030:G:O4'	1.54	1.06
24:BA:1203:G:C5	24:BA:1241:A:H8	1.73	1.06
24:BA:2025:C:H5'	34:BM:78:TYR:HH	1.18	1.06
24:BA:685:A:H5''	24:BA:686:G:N2	1.70	1.06
40:BS:64:ARG:HH11	40:BS:64:ARG:CA	1.67	1.06
1:AA:50:A:H5''	1:AA:51:A:H5'	1.16	1.06
22:AW:33:ILE:HD13	22:AW:63:ILE:HA	1.34	1.06
51:B4:51:TYR:HB3	51:B4:55:ARG:HA	1.28	1.06
24:BA:786:C:O2'	24:BA:787:U:H5'	1.54	1.06
36:BO:114:ILE:HD13	36:BO:129:ALA:O	1.54	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:55:HIS:HB3	46:BY:101:PRO:HG3	1.36	1.06
12:AM:23:ILE:HG23	12:AM:85:LEU:HD23	1.37	1.06
17:AR:6:GLU:HG2	17:AR:7:GLU:H	1.11	1.06
22:AW:12:ALA:H	22:AW:13:LEU:HD12	1.10	1.06
24:BA:1351:C:H2'	24:BA:1352:U:H6	1.12	1.06
24:BA:1993:U:H2'	24:BA:1994:C:H6	1.20	1.06
24:BA:2058:A:H2'	24:BA:2059:A:C8	1.89	1.06
24:BA:2306:C:N3	30:BG:46:ALA:HB2	1.69	1.06
24:BA:259:G:H2'	24:BA:260:G:H8	1.15	1.06
24:BA:861:A:H62	24:BA:916:G:N2	1.50	1.06
24:BA:917:A:H3'	24:BA:917:A:H8	1.18	1.06
27:BD:125:ILE:HG21	27:BD:137:PRO:HG3	1.37	1.06
38:BQ:83:ILE:HA	38:BQ:86:ARG:HG3	1.34	1.06
39:BR:20:ARG:HB3	39:BR:20:ARG:NH2	1.70	1.06
1:AA:926:G:H2'	1:AA:1505:G:H21	0.99	1.06
1:AA:781:A:H2'	1:AA:782:A:H5'	1.35	1.06
1:AA:959:A:H3'	1:AA:960:U:H5''	1.37	1.06
6:AG:74:GLN:HA	6:AG:77:ASN:HD22	1.13	1.06
24:BA:1203:G:H2'	24:BA:1203:G:N3	1.61	1.06
29:BF:110:LEU:HA	29:BF:183:VAL:HG22	1.35	1.06
30:BG:107:LEU:O	30:BG:111:LEU:HB2	1.53	1.06
33:BL:10:LEU:HD12	33:BL:12:LEU:HD11	1.32	1.06
33:BL:7:VAL:HG12	33:BL:58:THR:HG21	1.10	1.06
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CE2	1.90	1.06
10:AK:10:LEU:HD11	10:AK:85:ARG:HD3	1.38	1.06
24:BA:1933:G:H21	24:BA:1974:C:H5'	1.17	1.06
24:BA:687:C:H5''	53:B6:4:THR:HB	1.36	1.06
24:BA:1819:A:H5''	27:BD:178:PRO:HG3	1.32	1.06
28:BE:127:ASP:HB2	28:BE:135:HIS:HA	1.35	1.06
37:BP:42:ILE:HD12	37:BP:47:ILE:HG13	1.29	1.06
1:AA:611:A:N6	1:AA:629:G:H1	1.53	1.06
4:AE:209:ARG:HH12	4:AE:213:LEU:HD12	1.19	1.06
50:B3:59:PHE:HA	50:B3:62:ARG:HD2	1.36	1.06
24:BA:1995:U:H5''	24:BA:1996:C:C5'	1.85	1.06
25:BB:89:G:H2'	25:BB:89(A):A:C8	1.90	1.06
29:BF:74:ARG:NE	29:BF:75:HIS:H	1.52	1.06
39:BR:106:ARG:HH12	39:BR:110:LEU:HB2	1.17	1.06
41:BT:82:GLY:HA2	41:BT:117:GLN:HG2	1.37	1.06
42:BU:36:PRO:HA	42:BU:60:GLU:O	1.55	1.06
3:AD:47:U:H2'	3:AD:48:C:H5''	1.32	1.06
24:BA:1668:A:N1	24:BA:1993:U:H1'	1.69	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:861:A:N6	24:BA:916:G:H21	1.53	1.06
24:BA:977:G:H2'	24:BA:978:G:O4'	1.55	1.06
29:BF:119:ARG:NH2	29:BF:119:ARG:HB2	1.69	1.06
32:BK:4:ILE:HA	32:BK:18:VAL:HG22	1.31	1.06
34:BM:23:LEU:CD1	34:BM:63:THR:H	1.68	1.06
41:BT:83:LEU:O	41:BT:86:ALA:HB3	1.55	1.06
1:AA:1156:G:H1'	1:AA:1179:A:H61	1.17	1.06
1:AA:9:G:H5''	7:AH:126:ARG:HD3	1.29	1.06
5:AF:91:LEU:HD21	5:AF:98:ASN:HA	1.37	1.06
15:AP:108:ARG:HA	15:AP:108:ARG:NH1	1.68	1.06
24:BA:2387:U:H1'	47:BZ:41:ARG:NH2	1.70	1.06
24:BA:364:C:H2'	24:BA:365:C:C5	1.90	1.06
29:BF:119:ARG:HH21	29:BF:119:ARG:HB2	1.21	1.06
35:BN:52:VAL:HG22	35:BN:53:LYS:H	1.21	1.06
46:BY:165:VAL:HG12	46:BY:166:SER:H	1.18	1.06
18:AS:44:THR:HG23	18:AS:45:THR:H	1.09	1.06
1:AA:132:C:H5'	1:AA:262:A:H1'	1.38	1.06
4:AE:42:ILE:HD11	4:AE:202:PRO:HB2	1.38	1.06
12:AM:45:ARG:HH11	12:AM:45:ARG:HB3	1.14	1.06
1:AA:551:U:H5'	14:AO:119:LYS:NZ	1.71	1.06
18:AS:20:VAL:HG22	18:AS:35:LYS:HA	1.37	1.06
24:BA:1024:G:H5''	24:BA:1025:G:H5''	1.06	1.06
24:BA:2544:G:H5'	24:BA:2645:G:N7	1.71	1.06
27:BD:134:ARG:HA	27:BD:168:ARG:HH12	0.94	1.06
27:BD:68:LYS:HB3	27:BD:70:TRP:HE1	1.21	1.06
28:BE:173:VAL:HG13	28:BE:184:VAL:HA	1.32	1.06
29:BF:6:VAL:HA	29:BF:20:LEU:HD21	1.34	1.06
32:BK:5:LEU:HB2	32:BK:8:PRO:HD2	1.35	1.06
1:AA:926:G:H2'	1:AA:1505:G:N2	1.71	1.06
12:AM:94:VAL:HG12	12:AM:95:GLU:H	1.13	1.06
20:AU:33:ASP:CG	20:AU:34:TYR:H	1.57	1.06
23:AX:10:ARG:O	23:AX:13:ILE:HG22	1.55	1.06
33:BL:17:ALA:HB1	33:BL:38:VAL:HG13	1.35	1.06
34:BM:23:LEU:HD11	34:BM:63:THR:H	1.14	1.06
47:BZ:37:LEU:CD1	47:BZ:59:LEU:HB3	1.86	1.06
6:AG:107:ARG:HA	6:AG:107:ARG:HH11	1.18	1.05
53:B6:21:ARG:HG2	53:B6:31:LEU:HD21	1.35	1.05
24:BA:1241:A:C5'	24:BA:1241:A:N3	2.18	1.05
24:BA:1995:U:H5''	24:BA:1996:C:H5'	1.31	1.05
24:BA:2491:U:H3'	24:BA:2491:U:H6	0.98	1.05
24:BA:2746:U:O4	24:BA:2756:U:C5	2.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:23:ARG:HB2	35:BN:23:ARG:HH11	1.20	1.05
46:BY:151:HIS:HA	46:BY:171:ILE:HG22	1.38	1.05
4:AE:69:LEU:HA	4:AE:91:PRO:O	1.53	1.05
24:BA:828:U:H2'	24:BA:829:A:C8	1.91	1.05
30:BG:60:LEU:HD21	30:BG:90:LEU:HD11	1.38	1.05
37:BP:26:TYR:N	37:BP:102:VAL:HB	1.71	1.05
15:AP:57:ARG:O	15:AP:61:GLU:HB2	1.54	1.05
1:AA:1242:C:O2'	1:AA:1303:C:H5''	1.55	1.05
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.38	1.05
1:AA:978:A:N6	1:AA:1361:G:H22	1.54	1.05
3:AC:6:G:H2'	3:AC:7:A:C8	1.91	1.05
11:AL:9:ARG:HD2	11:AL:14:VAL:HG22	1.38	1.05
19:AT:43:LEU:HD22	19:AT:44:ALA:N	1.71	1.05
24:BA:1144:G:H2'	24:BA:1145:C:C6	1.92	1.05
24:BA:251:A:H2'	24:BA:252:G:O4'	1.55	1.05
31:BH:43:VAL:HG22	31:BH:52:VAL:HA	1.11	1.05
35:BN:122:LEU:HA	40:BS:74:ARG:HH12	1.11	1.05
42:BU:61:VAL:O	42:BU:99:ILE:HB	1.55	1.05
43:BV:25:ARG:HH21	43:BV:74:ALA:N	1.54	1.05
12:AM:8:LEU:HD13	12:AM:94:VAL:HG11	1.36	1.05
24:BA:477:A:H62	24:BA:502:A:N6	1.53	1.05
29:BF:123:LEU:HD12	29:BF:193:VAL:HG22	1.38	1.05
45:BX:47:LYS:HD3	45:BX:49:VAL:HG21	1.35	1.05
20:AU:62:GLU:O	20:AU:66:LEU:HG	1.56	1.05
24:BA:2447:G:O3'	24:BA:2499:C:P	2.14	1.05
24:BA:2507:C:H5''	24:BA:2573:C:H41	1.20	1.05
24:BA:484:C:H2'	24:BA:485:C:C6	1.91	1.05
27:BD:5:LYS:HD3	27:BD:29:PRO:HB3	1.38	1.05
39:BR:106:ARG:NH2	39:BR:110:LEU:HD22	1.72	1.05
39:BR:73:LEU:O	39:BR:76:LYS:HD3	1.57	1.05
35:BN:106:LEU:HB2	40:BS:39:ARG:HH22	1.20	1.05
41:BT:76:TYR:CD2	41:BT:80:ILE:HD11	1.92	1.05
43:BV:25:ARG:NH2	43:BV:74:ALA:H	1.55	1.05
1:AA:1004:A:H8	1:AA:1036:G:O6	1.39	1.05
24:BA:2461:C:H1'	24:BA:2492:U:C5	1.92	1.05
28:BE:91:VAL:HG21	28:BE:93:VAL:HG13	1.38	1.05
29:BF:6:VAL:HA	29:BF:20:LEU:CD2	1.87	1.05
43:BV:16:LYS:HZ2	43:BV:16:LYS:N	1.52	1.05
43:BV:56:ALA:O	43:BV:60:ASN:HB3	1.54	1.05
3:AB:34:G:C2	3:AB:35:A:H1'	1.92	1.05
14:AO:84:LEU:HB3	14:AO:104:VAL:HG11	1.30	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2063:C:H3'	24:BA:2064:C:H5''	1.33	1.05
24:BA:308:G:C2	24:BA:309:G:H1'	1.92	1.05
27:BD:63:ARG:NH1	27:BD:85:ASP:HB2	1.70	1.05
42:BU:65:GLY:O	42:BU:66:ARG:HG2	1.56	1.05
25:BB:12:C:C6	47:BZ:74:ARG:HB2	1.91	1.05
1:AA:1464:G:H2'	1:AA:1465:C:C5	1.90	1.05
1:AA:1417:G:H2'	1:AA:1482:G:N2	1.72	1.05
1:AA:389:A:H2'	1:AA:390:C:H5'	1.37	1.05
1:AA:932:C:H3'	9:AJ:3:ARG:HG3	1.31	1.05
10:AK:29:SER:HB2	10:AK:32:LYS:HE2	1.36	1.05
10:AK:91:ARG:HG2	19:AT:34:LYS:HB2	1.39	1.05
49:B2:3:ARG:HH12	49:B2:59:VAL:HB	1.17	1.05
24:BA:242:G:H3'	54:B7:4:MET:CG	1.87	1.05
24:BA:326:G:H2'	24:BA:327:G:H8	1.20	1.05
34:BM:26:LEU:HG	34:BM:30:ILE:HD11	1.38	1.05
37:BP:22:LYS:HD2	37:BP:99:PRO:HG3	1.36	1.05
37:BP:42:ILE:HD11	37:BP:46:GLN:HB3	1.38	1.05
39:BR:20:ARG:HB3	39:BR:20:ARG:HH21	0.92	1.05
45:BX:2:ARG:HD2	45:BX:3:VAL:H	1.19	1.05
46:BY:144:LEU:HB3	46:BY:174:VAL:HG11	1.33	1.05
46:BY:145:GLU:N	46:BY:174:VAL:HG21	1.71	1.05
10:AK:10:LEU:O	10:AK:13:ILE:HB	1.56	1.05
24:BA:1182:A:H3'	24:BA:1183:G:H3'	1.39	1.05
44:BW:92:LEU:O	44:BW:95:LEU:HB2	1.56	1.05
1:AA:1286:A:H5'	23:AX:25:LYS:HG2	1.35	1.05
1:AA:765:G:O2'	1:AA:766:A:H5'	1.56	1.05
24:BA:142:G:H4'	44:BW:35:THR:HG21	1.30	1.05
24:BA:1702:G:H2'	24:BA:1703:G:H5''	1.05	1.05
24:BA:578:A:H2'	24:BA:2018:G:H5''	1.38	1.05
24:BA:261:G:H4'	24:BA:608:A:H2	1.10	1.05
25:BB:102:G:H2'	46:BY:73:GLN:HE21	1.20	1.05
46:BY:151:HIS:HB3	46:BY:170:THR:H	1.21	1.05
48:B1:2:ARG:HA	48:B1:5:LEU:HD13	1.39	1.05
1:AA:886:G:O2'	1:AA:887:G:H5'	1.57	1.04
53:B6:41:ARG:HH11	53:B6:41:ARG:HB2	1.17	1.04
24:BA:2277:G:H3'	24:BA:2278:A:H5''	1.39	1.04
38:BQ:32:GLY:HA2	38:BQ:116:LEU:CD2	1.87	1.04
42:BU:6:LYS:HG2	42:BU:12:TYR:H	1.22	1.04
1:AA:1004:A:H3'	1:AA:1025:U:N3	1.71	1.04
4:AE:55:PHE:HA	4:AE:58:ILE:HD12	1.35	1.04
7:AH:89:ILE:HG12	7:AH:131:ILE:HD12	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2349:G:H3'	24:BA:2350:C:H5''	1.39	1.04
24:BA:2447:G:O3'	24:BA:2499:C:OP2	1.75	1.04
24:BA:2841:C:H2'	24:BA:2842:G:H8	1.22	1.04
41:BT:53:ARG:HA	41:BT:56:ASP:OD2	1.56	1.04
32:BK:87:LYS:HE2	32:BK:121:LYS:HG3	1.34	1.04
1:AA:939:G:H5''	9:AJ:102:ARG:HH22	0.91	1.04
54:B7:56:GLU:CD	54:B7:56:GLU:H	1.57	1.04
24:BA:1155:A:H2'	24:BA:1156:A:H5''	1.39	1.04
24:BA:215:G:H4'	24:BA:216:A:O5'	1.53	1.04
44:BW:47:PHE:HE2	44:BW:89:ILE:HA	1.22	1.04
24:BA:2353:G:H4'	47:BZ:32:ARG:HH22	1.17	1.04
1:AA:50:A:N6	1:AA:361:G:H4'	1.70	1.04
1:AA:571:U:C3'	1:AA:572:A:H5''	1.87	1.04
1:AA:64:G:H4'	1:AA:65:U:H5''	1.39	1.04
1:AA:946:A:H2'	1:AA:947:G:C8	1.92	1.04
13:AN:32:ILE:HG22	13:AN:40:ILE:HD11	1.36	1.04
18:AS:18:ARG:HH12	18:AS:35:LYS:CB	1.70	1.04
24:BA:1204:A:OP2	24:BA:1204:A:O4'	1.73	1.04
24:BA:2681:C:O2'	24:BA:2682:U:H5'	1.56	1.04
24:BA:52:A:H2'	24:BA:53:A:H8	1.21	1.04
38:BQ:20:LEU:HD21	38:BQ:24:GLN:HG3	1.35	1.04
11:AL:55:ALA:HB1	11:AL:58:HIS:CE1	1.90	1.04
12:AM:30:SER:HB2	12:AM:81:THR:HA	1.35	1.04
50:B3:5:ILE:HD11	50:B3:10:VAL:HG23	1.39	1.04
28:BE:8:LYS:HD3	28:BE:9:VAL:HG22	1.36	1.04
4:AE:155:LEU:HB2	4:AE:159:PRO:HG3	1.39	1.04
17:AR:16:ALA:HB1	17:AR:21:ASP:HB3	1.35	1.04
17:AR:62:GLN:HA	17:AR:65:ARG:NH2	1.72	1.04
24:BA:712:G:H2'	24:BA:713:G:C8	1.91	1.04
27:BD:87:ASN:N	27:BD:87:ASN:HD22	1.53	1.04
24:BA:663:G:H5'	36:BO:18:ARG:HB3	1.36	1.04
6:AG:133:VAL:HG11	6:AG:138:TYR:HD1	1.21	1.04
24:BA:1762:A:C8	24:BA:1762:A:H3'	1.92	1.04
24:BA:2431:U:C2'	24:BA:2432:A:H5''	1.87	1.04
24:BA:2576:G:H4'	24:BA:2577:A:H5'	1.07	1.04
46:BY:152:ALA:HA	46:BY:155:LEU:HD13	1.38	1.04
7:AH:84:PHE:CZ	7:AH:133:TYR:HB3	1.93	1.04
11:AL:42:ARG:HB3	11:AL:74:ILE:HD13	1.33	1.04
12:AM:43:ARG:O	12:AM:66:ARG:HB2	1.58	1.04
14:AO:93:LEU:HD12	14:AO:96:VAL:HG21	1.35	1.04
50:B3:46:GLN:HE22	50:B3:69:LYS:HE2	1.17	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1557:C:H2'	24:BA:1558:A:H8	1.15	1.04
24:BA:956:G:O6	24:BA:958:U:H1'	1.57	1.04
28:BE:173:VAL:CG1	28:BE:184:VAL:HA	1.86	1.04
34:BM:46:VAL:HG12	34:BM:47:ALA:N	1.68	1.04
39:BR:106:ARG:NH1	39:BR:110:LEU:HB2	1.73	1.04
42:BU:40:LEU:HA	42:BU:54:GLY:HA3	1.39	1.04
42:BU:28:GLU:HB3	42:BU:94:LEU:HD12	1.34	1.04
32:BK:69:LYS:HG2	32:BK:70:LYS:N	1.68	1.04
16:AQ:26:ARG:HD2	16:AQ:47:LEU:HD12	1.40	1.04
48:B1:38:GLN:H	48:B1:41:GLN:NE2	1.55	1.04
24:BA:764:A:H62	24:BA:1776:G:H1'	1.17	1.04
24:BA:785:G:H2'	24:BA:786:C:C6	1.93	1.04
30:BG:163:ALA:HB1	30:BG:169:ALA:HA	1.34	1.04
35:BN:105:GLU:O	35:BN:111:PHE:HZ	1.38	1.04
45:BX:22:GLY:CA	45:BX:73:ARG:HH12	1.69	1.04
1:AA:754:C:H5'	1:AA:755:G:C8	1.93	1.04
6:AG:132:ARG:HH11	6:AG:132:ARG:HG2	1.21	1.04
11:AL:19:LEU:HD21	11:AL:59:PHE:HB3	1.07	1.04
14:AO:28:LYS:NZ	14:AO:33:ARG:HH22	1.56	1.04
16:AQ:29:ARG:HB3	16:AQ:29:ARG:HH11	1.22	1.04
1:AA:1320:C:N4	21:AV:36:ARG:HH11	1.54	1.04
53:B6:48:LYS:HG3	53:B6:49:ARG:N	1.65	1.04
55:B8:10:ILE:HD13	55:B8:32:HIS:CD2	1.93	1.04
55:B8:2:LYS:CG	55:B8:35:ARG:HB2	1.87	1.04
24:BA:1024:G:C5'	24:BA:1025:G:H5''	1.86	1.04
24:BA:2637:U:H5''	28:BE:81:ILE:HD11	1.40	1.04
24:BA:783:A:H2'	24:BA:784:A:H4'	1.34	1.04
24:BA:979:G:H3'	24:BA:980:A:H5''	1.39	1.04
26:BC:115:ALA:HB3	26:BC:120:MET:SD	1.97	1.04
1:AA:1253:G:H1	1:AA:1285:A:N6	1.55	1.03
1:AA:1403:C:H1'	1:AA:1500:A:N6	1.72	1.03
10:AK:12:ARG:HH11	10:AK:27:PRO:HD3	1.21	1.03
5:AF:33:LEU:HD11	16:AQ:53:LEU:HA	1.38	1.03
24:BA:630:G:H5''	54:B7:46:ARG:HH12	1.20	1.03
24:BA:1255:U:H5'	24:BA:1256:G:H5''	1.40	1.03
24:BA:1911:U:C2'	24:BA:1912:A:H5'	1.88	1.03
24:BA:388:G:H2'	24:BA:390:A:N7	1.73	1.03
24:BA:785:G:H2'	24:BA:786:C:H6	1.22	1.03
27:BD:77:ALA:HB1	27:BD:95:LEU:HD21	1.38	1.03
28:BE:13:ARG:HG3	28:BE:22:PRO:CD	1.88	1.03
31:BH:103:LEU:HD13	31:BH:115:VAL:HG11	1.39	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:46:GLY:O	38:BQ:49:ASP:HB3	1.58	1.03
6:AG:12:CYS:HA	6:AG:19:LEU:HB2	1.37	1.03
16:AQ:45:ARG:CB	16:AQ:45:ARG:HH11	1.71	1.03
24:BA:1841:U:H2'	24:BA:1842:G:H8	1.22	1.03
24:BA:371:A:H5''	24:BA:423:A:N7	1.73	1.03
24:BA:1657:C:H5'	28:BE:133:LYS:HD3	1.36	1.03
31:BH:73:ALA:O	31:BH:76:VAL:HG22	1.58	1.03
1:AA:37:U:H6	1:AA:37:U:H3'	1.21	1.03
3:AC:28:G:H2'	3:AC:29:G:H8	1.21	1.03
5:AF:38:ARG:HB3	5:AF:38:ARG:NH1	1.70	1.03
9:AJ:35:LYS:NZ	9:AJ:38:LEU:HD22	1.73	1.03
24:BA:2832:U:H1'	24:BA:2834:G:N2	1.73	1.03
27:BD:61:LEU:HD22	27:BD:63:ARG:NH2	1.73	1.03
37:BP:34:LEU:HB2	37:BP:67:ARG:HH22	1.23	1.03
37:BP:42:ILE:HG22	37:BP:95:ALA:HB3	1.39	1.03
38:BQ:13:HIS:HB3	38:BQ:16:HIS:CD2	1.94	1.03
43:BV:36:LEU:HD23	43:BV:51:LEU:HD21	1.39	1.03
46:BY:30:ASN:HB2	46:BY:90:VAL:HG23	1.40	1.03
1:AA:82:U:H2'	1:AA:85:U:H5	1.22	1.03
1:AA:962:C:H4'	1:AA:1200:C:H41	1.18	1.03
4:AE:178:ARG:NE	4:AE:196:LEU:HD13	1.73	1.03
14:AO:24:VAL:HG23	14:AO:97:ARG:HG2	1.38	1.03
24:BA:1203:G:C6	24:BA:1240:U:N3	2.27	1.03
24:BA:270(P):C:H5'	32:BK:45:LYS:HG2	1.40	1.03
37:BP:6:ARG:HB2	37:BP:44:ALA:HB1	1.36	1.03
40:BS:100:TYR:HA	40:BS:102:ILE:HD13	1.36	1.03
43:BV:19:LEU:HD22	51:B4:25:LEU:HB3	1.41	1.03
45:BX:52:SER:HB3	45:BX:56:PRO:HB3	1.39	1.03
26:BC:32:LEU:HB3	26:BC:220:PRO:HG2	1.35	1.03
1:AA:559:A:H4'	1:AA:560:U:C5'	1.87	1.03
6:AG:141:ARG:HD3	6:AG:142:PRO:HD2	1.40	1.03
10:AK:64:LYS:HG2	10:AK:79:VAL:HG21	1.36	1.03
15:AP:108:ARG:HH11	15:AP:108:ARG:CA	1.71	1.03
24:BA:29:U:H2'	24:BA:30:G:N7	1.72	1.03
27:BD:244:ARG:H	27:BD:245:PRO:HD3	1.16	1.03
27:BD:76:PRO:O	27:BD:98:VAL:HG23	1.57	1.03
35:BN:76:ALA:HA	40:BS:77:PRO:CD	1.88	1.03
1:AA:571:U:H3'	1:AA:572:A:H5''	1.05	1.03
7:AH:52:PRO:O	7:AH:55:VAL:HB	1.59	1.03
15:AP:88:ARG:HG2	15:AP:98:VAL:HG12	1.38	1.03
50:B3:6:HIS:NE2	50:B3:55:ARG:HD3	1.74	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1700:A:H2'	24:BA:1701:A:H5'	1.40	1.03
24:BA:2327:A:H2'	24:BA:2328:A:C8	1.93	1.03
24:BA:519:U:H5'	24:BA:519:U:H6	1.23	1.03
25:BB:103:U:H2'	25:BB:104:A:H5'	1.33	1.03
27:BD:23:GLU:HB2	27:BD:205:VAL:HG12	1.35	1.03
34:BM:66:LYS:HA	34:BM:87:LEU:HD11	1.36	1.03
36:BO:65:ARG:NH1	36:BO:67:MET:H	1.56	1.03
1:AA:306:G:H2'	1:AA:307:C:H6	1.19	1.03
4:AE:95:GLN:HE21	4:AE:148:TYR:HB3	1.23	1.03
54:B7:14:VAL:O	54:B7:15:LYS:HE2	1.56	1.03
55:B8:25:VAL:HB	55:B8:34:GLN:HB2	1.40	1.03
42:BU:62:LEU:HD12	42:BU:96:ILE:HB	1.06	1.03
1:AA:355:C:H1'	1:AA:388:G:H2'	1.40	1.03
6:AG:148:VAL:HB	6:AG:181:MET:HE3	1.37	1.03
49:B2:50:VAL:HG13	49:B2:53:LEU:HD12	1.39	1.03
24:BA:1324:G:H3'	24:BA:1325:G:H4'	1.35	1.03
24:BA:1965:C:H3'	24:BA:1966:A:C8	1.93	1.03
24:BA:2582:G:N2	24:BA:2583:G:H1'	1.73	1.03
35:BN:77:ILE:HG21	40:BS:65:LYS:HE2	1.40	1.03
32:BK:125:GLU:HB3	32:BK:143:SER:HB3	1.07	1.03
32:BK:66:GLU:HA	32:BK:69:LYS:HD3	1.37	1.03
3:AD:19:G:N2	3:AD:57:G:H1'	1.73	1.03
3:AD:75:C:H3'	3:AD:76:A:H4'	1.39	1.03
19:AT:4:LYS:HD2	19:AT:5:VAL:H	1.18	1.03
40:BS:18:ASP:HB3	40:BS:81:PRO:HA	1.35	1.03
41:BT:8:VAL:HG23	41:BT:9:VAL:H	1.20	1.03
1:AA:22:G:H2'	1:AA:23:C:C6	1.93	1.03
1:AA:770:C:H1'	1:AA:900:A:C2	1.91	1.03
10:AK:14:ARG:NH1	10:AK:14:ARG:HB3	1.73	1.03
12:AM:25:GLU:HA	12:AM:28:ARG:HD2	1.41	1.03
21:AV:18:LYS:HE3	21:AV:18:LYS:HA	1.37	1.03
24:BA:104:U:H2'	24:BA:105:C:O4'	1.57	1.03
24:BA:424:G:O2'	24:BA:425:G:H5'	1.59	1.03
28:BE:105:THR:HB	28:BE:166:THR:CB	1.88	1.03
34:BM:14:VAL:HG13	34:BM:138:LEU:HB3	1.40	1.03
40:BS:10:VAL:O	40:BS:13:ARG:HB3	1.58	1.03
24:BA:445:C:H3'	41:BT:3:ARG:HE	1.23	1.03
41:BT:64:ARG:O	41:BT:67:ALA:HB3	1.58	1.03
41:BT:112:ARG:NH1	42:BU:50:PRO:HG3	1.72	1.03
32:BK:81:VAL:HG13	32:BK:144:VAL:HG21	1.38	1.03
24:BA:944:G:H5"	24:BA:945:A:H5"	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:23:ARG:NH1	39:BR:42:ASP:HB3	1.72	1.02
5:AF:122:GLU:HA	5:AF:125:GLU:HG2	1.36	1.02
11:AL:40:LEU:HB3	11:AL:42:ARG:HB2	1.38	1.02
14:AO:37:CYS:CA	14:AO:58:VAL:HG22	1.88	1.02
50:B3:5:ILE:HG21	50:B3:60:GLN:OE1	1.59	1.02
27:BD:58:HIS:O	27:BD:59:LYS:HG3	1.58	1.02
34:BM:53:VAL:HA	34:BM:121:LYS:O	1.58	1.02
26:BC:153:ILE:HA	26:BC:156:ILE:HD12	1.40	1.02
24:BA:630:G:H5''	54:B7:46:ARG:NH1	1.74	1.02
24:BA:270(O):U:H5''	24:BA:270(P):C:H5	1.23	1.02
27:BD:76:PRO:HG2	27:BD:98:VAL:HG21	1.39	1.02
36:BO:75:ILE:HG22	36:BO:115:LEU:HD11	1.35	1.02
37:BP:25:ASP:HB2	37:BP:101:ARG:HD2	1.39	1.02
1:AA:38:G:H22	1:AA:397:A:H5''	0.86	1.02
6:AG:50:ARG:HG2	6:AG:51:PRO:HD2	1.34	1.02
20:AU:36:ASN:O	20:AU:40:LEU:HG	1.59	1.02
24:BA:1158:C:H4'	49:B2:32:GLN:HE21	1.23	1.02
24:BA:270(C):C:H2'	24:BA:270(D):C:C6	1.94	1.02
27:BD:39:LYS:HA	27:BD:62:TYR:HB2	1.41	1.02
29:BF:103:LYS:HA	29:BF:106:ARG:HG2	1.41	1.02
34:BM:69:GLN:NE2	34:BM:87:LEU:HD22	1.73	1.02
35:BN:64:ARG:NH1	35:BN:67:LYS:H	1.55	1.02
1:AA:1005:A:H5''	1:AA:1006:C:C5	1.95	1.02
14:AO:83:VAL:HG22	14:AO:84:LEU:H	1.24	1.02
50:B3:65:ASP:O	50:B3:69:LYS:HG3	1.59	1.02
24:BA:1702:G:H2'	24:BA:1703:G:C5'	1.88	1.02
24:BA:1772:G:H2'	24:BA:1773:A:H4'	1.36	1.02
24:BA:616:A:H3'	24:BA:616:A:OP2	1.60	1.02
24:BA:196:A:N1	24:BA:828:U:H5''	1.72	1.02
31:BH:118:PRO:HD2	31:BH:121:ILE:HD13	1.42	1.02
43:BV:20:VAL:HG22	43:BV:24:ILE:HD11	1.40	1.02
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.40	1.02
4:AE:155:LEU:CB	4:AE:159:PRO:HG3	1.89	1.02
4:AE:178:ARG:HD2	4:AE:184:VAL:HG11	1.42	1.02
10:AK:95:VAL:HG22	10:AK:133:LEU:HD21	1.38	1.02
14:AO:88:GLY:H	14:AO:98:TYR:HA	1.20	1.02
24:BA:1718:G:H2'	24:BA:1725:G:H8	1.15	1.02
24:BA:1780:A:H3'	24:BA:1781:C:H5'	1.35	1.02
24:BA:2213:U:H5'	24:BA:2215:G:N7	1.75	1.02
35:BN:3:GLN:HG2	35:BN:6:THR:HB	1.39	1.02
36:BO:107:LYS:HE2	36:BO:110:TYR:HD1	1.20	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:78:PRO:HB3	37:BP:81:VAL:HG23	1.41	1.02
44:BW:66:LEU:HG	44:BW:69:TYR:O	1.60	1.02
4:AE:163:PHE:HA	4:AE:185:ILE:O	1.59	1.02
5:AF:52:LEU:HA	5:AF:70:VAL:HG22	1.41	1.02
8:AI:52:ILE:HD13	8:AI:87:ARG:NH2	1.73	1.02
1:AA:716:A:H1'	13:AN:118:GLY:HA2	1.37	1.02
13:AN:50:TYR:HB3	13:AN:55:LYS:HG2	1.39	1.02
19:AT:59:ILE:HD11	19:AT:71:PHE:HB3	1.38	1.02
24:BA:1438:U:H2'	24:BA:1439:A:H5'	1.42	1.02
24:BA:2332:U:C4'	24:BA:2336:A:H62	1.73	1.02
35:BN:18:LYS:HB3	35:BN:45:GLU:HG3	1.38	1.02
39:BR:89:ARG:HG3	39:BR:90:GLY:H	1.24	1.02
41:BT:70:ARG:HG2	41:BT:75:ASN:HA	1.35	1.02
46:BY:2:GLU:OE2	46:BY:58:VAL:HB	1.59	1.02
47:BZ:64:ASP:HB3	47:BZ:84:LEU:HD13	1.36	1.02
1:AA:570:G:H1	1:AA:866:C:N4	1.55	1.02
24:BA:1646:C:H3'	24:BA:1647:G:C5'	1.89	1.02
24:BA:586:A:C5'	29:BF:89:VAL:HG21	1.90	1.02
24:BA:745:G:O2'	24:BA:748:G:H1'	1.58	1.02
39:BR:37:ALA:O	39:BR:51:ALA:HB2	1.59	1.02
2:A1:36:U:H4'	2:A1:37:U:OP2	1.59	1.02
1:AA:1192:C:H3'	1:AA:1192:C:H6	1.25	1.02
20:AU:21:LYS:HZ1	20:AU:23:LYS:HB3	1.21	1.02
24:BA:1111:A:O2'	24:BA:1112:G:H1'	1.60	1.02
24:BA:248:G:N3	24:BA:2431:U:H5'	1.75	1.02
29:BF:130:ALA:HB3	29:BF:142:TRP:HB2	1.05	1.02
37:BP:115:MET:O	37:BP:118:LEU:HG	1.60	1.02
37:BP:66:ILE:CG2	37:BP:67:ARG:H	1.68	1.02
44:BW:12:VAL:HB	44:BW:27:THR:O	1.60	1.02
1:AA:1005:A:H3'	1:AA:1006:C:H6	1.24	1.02
1:AA:12:U:H2'	1:AA:13:U:H5	1.21	1.02
1:AA:1428:A:H2'	1:AA:1429:C:C6	1.94	1.02
1:AA:263:A:C2'	1:AA:264:U:H5''	1.89	1.02
1:AA:408:A:H2'	1:AA:409:G:H8	1.16	1.02
5:AF:59:ARG:NE	5:AF:64:VAL:HA	1.74	1.02
49:B2:45:GLY:HA2	49:B2:48:GLU:CD	1.80	1.02
52:B5:11:LEU:HD13	54:B7:35:GLN:NE2	1.75	1.02
52:B5:24:GLU:HG2	54:B7:37:SER:HB2	1.37	1.02
24:BA:1252:G:C8	24:BA:1253:A:H1'	1.93	1.02
24:BA:1475:G:H21	24:BA:1476:C:H5''	1.23	1.02
28:BE:111:ARG:N	28:BE:161:GLY:HA3	1.75	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:192:LEU:HD11	29:BF:194:MET:HG3	1.42	1.02
6:AG:93:PHE:HA	6:AG:96:LEU:HD12	1.39	1.01
8:AI:30:LEU:HA	8:AI:75:LEU:HD11	1.37	1.01
24:BA:1252:G:H22	41:BT:37:GLU:HG3	1.22	1.01
24:BA:2584:U:H2'	24:BA:2585:U:C5	1.95	1.01
24:BA:325:G:H2'	24:BA:326:G:H8	1.24	1.01
27:BD:166:GLN:O	27:BD:174:ILE:HB	1.58	1.01
39:BR:95:HIS:N	39:BR:99:LYS:HB2	1.74	1.01
1:AA:1064:G:H1'	1:AA:1066:C:C4	1.94	1.01
1:AA:91:C:H2'	1:AA:92:G:H8	1.23	1.01
5:AF:126:ARG:HB3	5:AF:128:PHE:CE1	1.95	1.01
1:AA:1205:U:H4'	5:AF:195:VAL:HG13	1.41	1.01
6:AG:19:LEU:H	6:AG:33:MET:HE1	1.23	1.01
10:AK:84:ARG:NH1	10:AK:84:ARG:HB3	1.75	1.01
24:BA:592:G:O2'	54:B7:2:PRO:HA	1.60	1.01
24:BA:627:A:H2'	24:BA:628:G:O4'	1.59	1.01
24:BA:976:C:H5'	24:BA:1156:A:N6	1.75	1.01
29:BF:131:GLY:HA2	29:BF:138:GLU:HG3	1.41	1.01
29:BF:34:TRP:HB3	29:BF:38:ARG:CZ	1.88	1.01
37:BP:41:TRP:HA	37:BP:95:ALA:O	1.59	1.01
24:BA:2122:U:H2'	24:BA:2123:G:H5''	1.40	1.01
12:AM:49:VAL:HG13	16:AQ:41:ARG:HD2	1.37	1.01
51:B4:34:PRO:HD3	51:B4:40:LYS:HD2	1.42	1.01
24:BA:1288:U:H5''	24:BA:1289:C:OP2	1.57	1.01
29:BF:153:SER:O	29:BF:190:GLU:HB2	1.61	1.01
29:BF:64:ILE:HD13	29:BF:65:TRP:N	1.75	1.01
42:BU:11:GLN:HE22	42:BU:24:LYS:NZ	1.58	1.01
42:BU:20:LEU:HD13	42:BU:68:LYS:HZ3	1.21	1.01
47:BZ:72:ARG:HB3	47:BZ:75:LEU:HD13	1.38	1.01
5:AF:59:ARG:HE	5:AF:64:VAL:HA	1.26	1.01
6:AG:106:TYR:HA	6:AG:111:ALA:HB3	1.43	1.01
20:AU:61:LYS:HD2	20:AU:64:ARG:HH22	1.25	1.01
22:AW:43:LEU:HD12	22:AW:55:ILE:HD11	1.36	1.01
24:BA:627:A:C6	24:BA:637:A:H1'	1.96	1.01
28:BE:109:LYS:HG3	28:BE:191:PRO:HG3	1.36	1.01
28:BE:102:VAL:HG13	28:BE:170:LEU:HG	1.41	1.01
28:BE:50:GLY:C	28:BE:76:ARG:HE	1.62	1.01
32:BK:21:VAL:HB	32:BK:26:ALA:CB	1.89	1.01
43:BV:64:MET:HG2	43:BV:109:GLU:HG3	1.42	1.01
45:BX:12:THR:HG22	45:BX:13:VAL:H	1.21	1.01
46:BY:2:GLU:O	46:BY:60:GLU:HA	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:132:PRO:HD2	32:BK:137:PRO:HA	1.40	1.01
24:BA:2115:G:H2'	24:BA:2117:A:N7	1.75	1.01
4:AE:84:GLU:HG2	4:AE:234:PRO:HD2	1.42	1.01
7:AH:48:ALA:HB3	7:AH:53:LEU:HB3	1.40	1.01
19:AT:89:LEU:O	19:AT:92:ARG:HB3	1.60	1.01
24:BA:2210:G:C6	27:BD:150:LYS:HA	1.94	1.01
24:BA:549:G:H2'	24:BA:550:G:H8	1.24	1.01
29:BF:155:LEU:HG	29:BF:189:THR:HG21	1.42	1.01
15:AP:7:VAL:HG13	30:BG:114:ILE:HD13	1.39	1.01
1:AA:279:A:N1	19:AT:98:LEU:HG	1.75	1.01
1:AA:475:G:H2'	1:AA:476:G:C8	1.95	1.01
5:AF:15:THR:HG21	5:AF:181:ASN:HA	1.41	1.01
7:AH:79:GLU:HB3	7:AH:92:LYS:HA	1.39	1.01
51:B4:45:VAL:HB	51:B4:50:GLY:HA2	1.39	1.01
24:BA:1774:C:C6	24:BA:1775:U:H5	1.79	1.01
24:BA:1785:A:H5''	24:BA:1982:C:O2'	1.58	1.01
25:BB:14:U:O2'	25:BB:107:U:H1'	1.59	1.01
32:BK:39:ALA:O	32:BK:43:ASN:HB2	1.58	1.01
34:BM:15:LEU:HG	34:BM:138:LEU:O	1.60	1.01
35:BN:9:GLU:HB2	35:BN:82:ASN:HB3	1.39	1.01
26:BC:87:GLU:HG3	26:BC:94:VAL:HG21	1.36	1.01
1:AA:792:A:H2'	1:AA:794:A:H62	1.18	1.01
1:AA:973:G:N2	1:AA:974:A:N6	2.09	1.01
4:AE:54:THR:HG21	4:AE:201:ILE:HD11	1.42	1.01
16:AQ:24:CYS:HB2	16:AQ:40:CYS:N	1.76	1.01
24:BA:1518:C:H3'	24:BA:1519:G:H5''	1.43	1.01
24:BA:2041:U:H2'	24:BA:2042:A:H8	1.23	1.01
24:BA:2765:A:H2'	24:BA:2765:A:N3	1.72	1.01
25:BB:33:G:H2'	25:BB:34:U:C6	1.94	1.01
28:BE:136:ARG:C	28:BE:137:HIS:HD1	1.61	1.01
30:BG:5:VAL:HG12	30:BG:9:ARG:HH22	1.22	1.01
24:BA:2093:G:H4'	32:BK:25:TYR:HA	1.38	1.01
34:BM:96:GLU:O	34:BM:99:LEU:HG	1.61	1.01
39:BR:9:ARG:HB2	39:BR:9:ARG:NH1	1.76	1.01
9:AJ:143:ARG:HH11	9:AJ:144:MET:HB2	1.25	1.01
12:AM:34:VAL:HG12	12:AM:35:SER:H	1.23	1.01
17:AR:7:GLU:O	17:AR:10:LYS:HG2	1.60	1.01
27:BD:202:LYS:HD2	27:BD:202:LYS:H	1.25	1.01
37:BP:63:LYS:HD3	37:BP:64:ILE:H	1.25	1.01
42:BU:40:LEU:HD21	42:BU:55:ALA:HB2	1.43	1.01
1:AA:232:G:H2'	1:AA:233:C:C6	1.94	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:104:VAL:HG11	6:AG:140:VAL:HG21	1.37	1.01
11:AL:55:ALA:HB3	11:AL:58:HIS:CE1	1.94	1.01
19:AT:62:SER:HB3	19:AT:72:ARG:NE	1.76	1.01
53:B6:34:ARG:HH11	53:B6:34:ARG:HB3	1.24	1.01
24:BA:2345:G:N7	24:BA:2371:G:N2	2.08	1.01
27:BD:136:ILE:HB	27:BD:168:ARG:NH2	1.75	1.01
35:BN:96:THR:HG22	35:BN:97:ARG:H	1.21	1.01
46:BY:179:ASP:O	46:BY:180:VAL:HG23	1.60	1.01
1:AA:1119:C:H2'	1:AA:1120:G:C8	1.96	1.01
6:AG:100:ARG:O	6:AG:104:VAL:HG13	1.61	1.01
19:AT:88:TYR:N	19:AT:91:ARG:HH21	1.56	1.01
49:B2:29:ARG:HB2	49:B2:30:ARG:NH2	1.73	1.01
24:BA:1312:U:H3'	24:BA:1313:U:C5	1.96	1.01
24:BA:1718:G:N2	24:BA:1742:C:N3	2.09	1.01
24:BA:1824:G:O2'	27:BD:246:PRO:HB3	1.59	1.01
24:BA:296:C:H2'	24:BA:297:C:H6	1.19	1.01
35:BN:85:VAL:O	35:BN:93:PRO:HD3	1.61	1.01
36:BO:46:LYS:HB3	36:BO:49:ARG:CZ	1.91	1.01
42:BU:69:LYS:O	42:BU:91:TYR:O	1.79	1.01
4:AE:91:PRO:HG3	4:AE:154:LEU:HB3	1.40	1.00
14:AO:57:LYS:HG2	14:AO:67:THR:HG22	1.41	1.00
36:BO:56:SER:HB3	54:B7:13:ARG:CZ	1.91	1.00
24:BA:112:U:C3'	24:BA:113:G:H5''	1.89	1.00
24:BA:2091:U:H2'	24:BA:2092:U:H5'	1.41	1.00
24:BA:2243:U:H2'	24:BA:2244:U:C6	1.95	1.00
24:BA:685:A:H5''	24:BA:686:G:H21	1.25	1.00
27:BD:105:ILE:HD12	27:BD:106:ILE:H	1.21	1.00
27:BD:216:GLY:O	27:BD:217:ARG:HB3	1.58	1.00
35:BN:76:ALA:HA	40:BS:77:PRO:HD2	1.39	1.00
24:BA:871:U:H4'	37:BP:69:PHE:CZ	1.96	1.00
24:BA:957:A:OP2	37:BP:77:LYS:HD3	1.59	1.00
41:BT:93:LYS:HG2	42:BU:10:LYS:HZ1	1.22	1.00
43:BV:5:ALA:HB2	43:BV:54:ALA:HB2	1.39	1.00
1:AA:572:A:H4'	1:AA:917:G:H5'	1.40	1.00
1:AA:922:G:H4'	7:AH:20:GLN:HA	1.37	1.00
6:AG:187:ARG:NE	6:AG:188:LEU:HG	1.76	1.00
8:AI:47:ARG:HD3	8:AI:57:GLN:HB3	1.42	1.00
49:B2:26:LEU:HD23	49:B2:28:LEU:HD11	1.40	1.00
24:BA:1939:U:H1'	24:BA:2592:G:C1'	1.91	1.00
24:BA:594:U:H2'	24:BA:595:C:C6	1.96	1.00
24:BA:996:A:H4'	41:BT:93:LYS:HG3	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:179:GLU:O	28:BE:181:LEU:HG	1.59	1.00
28:BE:52:LEU:HA	28:BE:74:PRO:HA	1.42	1.00
30:BG:36:LYS:HE2	30:BG:38:VAL:HG13	1.41	1.00
31:BH:145:ALA:O	31:BH:148:ILE:HG22	1.60	1.00
24:BA:2847:U:H3'	40:BS:99:LEU:CD1	1.90	1.00
5:AF:36:ASP:O	5:AF:39:ILE:HB	1.61	1.00
6:AG:18:LYS:HG2	6:AG:33:MET:HB3	1.40	1.00
1:AA:684:A:H4'	13:AN:12:ARG:NH2	1.75	1.00
1:AA:1310:G:H3'	21:AV:2:PRO:HD2	1.39	1.00
50:B3:4:GLY:HA2	50:B3:11:PRO:HB3	1.40	1.00
24:BA:1996:C:H6	24:BA:1996:C:H5''	1.20	1.00
29:BF:160:ASN:O	29:BF:163:VAL:HB	1.61	1.00
30:BG:60:LEU:HB3	30:BG:66:GLN:O	1.61	1.00
34:BM:43:THR:CB	34:BM:44:PRO:HD2	1.88	1.00
1:AA:952:U:H5'	1:AA:972:C:H41	1.23	1.00
4:AE:55:PHE:HA	4:AE:58:ILE:CD1	1.91	1.00
11:AL:48:GLU:HB3	11:AL:78:LYS:HZ3	1.24	1.00
13:AN:111:ASP:OD2	13:AN:113:PRO:HD3	1.61	1.00
15:AP:104:ARG:HG2	15:AP:105:THR:HG23	1.38	1.00
15:AP:78:ILE:HA	15:AP:81:LEU:HD13	1.41	1.00
17:AR:62:GLN:NE2	17:AR:66:LEU:HD21	1.76	1.00
24:BA:988:A:N6	49:B2:13:ILE:HG13	1.74	1.00
49:B2:9:VAL:HG22	49:B2:53:LEU:C	1.81	1.00
52:B5:16:CYS:CB	52:B5:49:HIS:HA	1.90	1.00
55:B8:2:LYS:HG2	55:B8:35:ARG:CB	1.91	1.00
24:BA:1677:A:H2'	24:BA:1678:G:H8	1.21	1.00
27:BD:54:ARG:HA	27:BD:219:PRO:HG2	1.43	1.00
27:BD:246:PRO:HG3	27:BD:252:TRP:CE3	1.97	1.00
28:BE:104:VAL:HG13	28:BE:197:ILE:O	1.59	1.00
30:BG:49:ASP:HA	30:BG:53:LEU:HD22	1.40	1.00
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.27	1.00
1:AA:291:C:H3'	1:AA:305:G:N2	1.76	1.00
7:AH:76:ILE:HD13	7:AH:142:LEU:HB2	1.41	1.00
24:BA:869:G:C2'	24:BA:870:A:H5''	1.90	1.00
27:BD:148:GLU:HB2	27:BD:154:LYS:HZ1	1.24	1.00
37:BP:134:ARG:HE	37:BP:137:TYR:HA	1.25	1.00
9:AJ:69:VAL:HG21	9:AJ:104:LEU:HD21	1.43	1.00
16:AQ:54:PRO:O	16:AQ:56:VAL:HG23	1.60	1.00
19:AT:62:SER:OG	19:AT:72:ARG:HG2	1.61	1.00
24:BA:1275:A:C2	38:BQ:16:HIS:HA	1.96	1.00
24:BA:2418:A:H2'	24:BA:2419:U:O4'	1.61	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:52:G:H4'	24:BA:2471:C:OP1	1.60	1.00
24:BA:602:G:O3'	24:BA:603:A:H4'	1.57	1.00
29:BF:89:VAL:HG12	29:BF:90:PHE:N	1.73	1.00
37:BP:27:VAL:HG22	37:BP:28:ALA:H	1.21	1.00
3:AD:8:U:H3	3:AD:14:A:N6	1.59	1.00
24:BA:183:C:H1'	24:BA:433:C:H1'	1.40	1.00
52:B5:16:CYS:SG	52:B5:19:ARG:CZ	2.49	1.00
24:BA:2286:A:C2	52:B5:27:LYS:HB3	1.96	1.00
24:BA:2780:G:H22	34:BM:97:ARG:NH1	1.59	1.00
24:BA:297:C:H5''	45:BX:83:THR:OG1	1.62	1.00
25:BB:37:C:H2'	25:BB:38:C:O4'	1.61	1.00
24:BA:781:A:H1'	27:BD:222:ARG:NH1	1.74	1.00
41:BT:55:ARG:HH11	41:BT:55:ARG:HG2	1.23	1.00
46:BY:56:VAL:HG21	46:BY:135:GLU:HA	1.41	1.00
6:AG:24:GLU:O	6:AG:27:TYR:HB3	1.62	1.00
17:AR:60:VAL:O	17:AR:63:ARG:HG3	1.60	1.00
52:B5:14:THR:HB	52:B5:51:GLU:HA	1.43	1.00
24:BA:1203:G:O6	24:BA:1240:U:O2	1.78	1.00
24:BA:1799:G:H1	27:BD:157:ARG:HH12	1.02	1.00
24:BA:1802:A:H61	24:BA:1822:G:H1'	1.24	1.00
24:BA:325:G:H2'	24:BA:326:G:C8	1.97	1.00
27:BD:177:LEU:HB2	27:BD:178:PRO:HD2	1.40	1.00
31:BH:17:VAL:HG21	31:BH:45:VAL:HG11	1.44	1.00
38:BQ:38:VAL:HB	38:BQ:39:PRO:HD3	1.41	1.00
42:BU:5:VAL:HG11	42:BU:37:VAL:HG13	1.44	1.00
46:BY:127:LYS:HD2	46:BY:163:LEU:HA	1.39	1.00
46:BY:152:ALA:HB3	46:BY:168:GLU:HA	1.43	1.00
52:B5:16:CYS:HB2	52:B5:49:HIS:CA	1.90	1.00
24:BA:2023:G:H2'	24:BA:2024:G:C8	1.97	1.00
24:BA:2075:U:H3	24:BA:2238:G:H1	1.01	1.00
24:BA:2254:C:C2'	24:BA:2255:G:H5'	1.90	1.00
24:BA:265:A:H3'	24:BA:265:A:C8	1.96	1.00
24:BA:270(M):U:C4'	24:BA:270(N):G:H4'	1.91	1.00
24:BA:2876:G:H4'	40:BS:1:MET:H2	1.27	1.00
24:BA:2619:C:C4'	28:BE:152:LYS:HA	1.91	1.00
24:BA:636:G:N2	36:BO:75:ILE:HD12	1.77	1.00
41:BT:13:LYS:HD2	41:BT:13:LYS:H	1.21	1.00
42:BU:39:LEU:HG	42:BU:58:VAL:O	1.62	1.00
43:BV:82:LEU:HD12	43:BV:84:ARG:HG3	1.43	1.00
4:AE:187:LEU:HA	4:AE:201:ILE:O	1.59	1.00
5:AF:30:ARG:HG2	5:AF:31:HIS:H	1.27	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:33:LEU:HD11	16:AQ:54:PRO:HD2	1.38	1.00
6:AG:20:TYR:HD1	6:AG:21:LEU:N	1.58	1.00
7:AH:78:HIS:ND1	10:AK:107:LEU:HD11	1.76	1.00
9:AJ:140:ASP:HA	9:AJ:143:ARG:CZ	1.91	1.00
10:AK:68:ARG:HD3	10:AK:69:ARG:H	1.26	1.00
15:AP:7:VAL:HG12	30:BG:140:ILE:HG21	1.44	1.00
19:AT:18:THR:HG22	19:AT:43:LEU:HD21	1.42	1.00
48:B1:12:SER:HB3	48:B1:13:PRO:HD2	1.41	1.00
50:B3:65:ASP:HA	50:B3:68:ARG:NH2	1.76	1.00
43:BV:39:THR:OG1	51:B4:28:PRO:HG3	1.61	1.00
24:BA:1466:G:C2'	24:BA:1547:C:H41	1.73	1.00
24:BA:1913:A:H1'	24:BA:1918:A:H61	1.25	1.00
24:BA:914:C:H3'	24:BA:914:C:H6	1.25	1.00
27:BD:133:LEU:HB3	27:BD:136:ILE:HD11	1.38	1.00
24:BA:1819:A:H3'	27:BD:178:PRO:HB2	1.43	1.00
28:BE:11:MET:O	28:BE:22:PRO:HD2	1.62	1.00
33:BL:9:LYS:HA	33:BL:56:GLU:HG2	1.43	1.00
42:BU:6:LYS:HD3	42:BU:10:LYS:HG2	1.39	1.00
44:BW:73:ARG:HB3	44:BW:73:ARG:HH11	1.26	1.00
24:BA:2124:G:C4'	26:BC:42:GLU:HG3	1.92	1.00
10:AK:80:ILE:HD12	10:AK:80:ILE:H	1.25	0.99
15:AP:48:LEU:CD2	15:AP:52:GLU:HB2	1.91	0.99
52:B5:12:GLU:HG2	52:B5:13:CYS:H	1.22	0.99
24:BA:2344:U:H5''	52:B5:38:LYS:CG	1.91	0.99
53:B6:28:ARG:O	53:B6:31:LEU:HB2	1.60	0.99
53:B6:48:LYS:CG	53:B6:49:ARG:H	1.71	0.99
24:BA:1995:U:C5'	24:BA:1996:C:H5'	1.91	0.99
24:BA:2239:G:H5'	24:BA:2240:C:OP2	1.60	0.99
24:BA:759:G:H2'	24:BA:760:G:H8	1.27	0.99
24:BA:853:G:H2'	24:BA:854:G:H8	1.24	0.99
27:BD:138:VAL:HA	27:BD:165:ILE:HG21	1.44	0.99
24:BA:1257:C:O2'	29:BF:84:VAL:HG23	1.61	0.99
24:BA:1224:G:H2'	42:BU:87:HIS:NE2	1.78	0.99
46:BY:4:ARG:HG2	46:BY:5:LEU:N	1.74	0.99
1:AA:1137:C:H4'	1:AA:1138:G:C2	1.98	0.99
1:AA:1405:G:H21	1:AA:1517:G:N2	1.57	0.99
1:AA:112:G:H5'	1:AA:389:A:H4'	1.41	0.99
1:AA:791:G:H22	1:AA:1498:U:P	1.84	0.99
49:B2:45:GLY:O	49:B2:48:GLU:HG2	1.61	0.99
24:BA:1917:U:H2'	24:BA:1918:A:O4'	1.61	0.99
41:BT:107:ALA:O	41:BT:110:VAL:HB	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:123:LEU:HD11	32:BK:145:VAL:HA	1.42	0.99
5:AF:69:HIS:ND1	5:AF:104:GLN:HB2	1.77	0.99
8:AI:14:LEU:CD1	8:AI:15:ASP:H	1.75	0.99
15:AP:82:MET:HE1	15:AP:93:ARG:HA	1.40	0.99
1:AA:191:G:H1'	22:AW:105:SER:HA	1.43	0.99
50:B3:68:ARG:N	50:B3:68:ARG:HD3	1.77	0.99
24:BA:270:A:N1	24:BA:370:G:H1'	1.75	0.99
28:BE:8:LYS:NZ	28:BE:9:VAL:HG13	1.76	0.99
31:BH:110:SER:O	31:BH:112:PRO:HD2	1.61	0.99
40:BS:96:ARG:HD3	40:BS:117:ASP:OD2	1.63	0.99
40:BS:58:ASN:HD22	40:BS:58:ASN:N	1.55	0.99
46:BY:94:GLU:H	46:BY:95:PRO:CD	1.73	0.99
1:AA:1327:C:H5''	23:AX:20:LYS:HD3	1.41	0.99
1:AA:174:C:H2'	1:AA:175:C:H6	1.27	0.99
4:AE:178:ARG:HH21	4:AE:196:LEU:HB2	1.22	0.99
7:AH:12:LEU:HB3	7:AH:31:LEU:HB3	1.44	0.99
20:AU:21:LYS:NZ	20:AU:23:LYS:HB3	1.77	0.99
24:BA:2348:U:H3'	54:B7:42:ARG:NH2	1.76	0.99
24:BA:1498:C:C6	24:BA:1576:U:H4'	1.97	0.99
24:BA:948:G:H1'	24:BA:984:A:C2	1.97	0.99
28:BE:30:PRO:HA	28:BE:49:LEU:O	1.59	0.99
36:BO:131:SER:O	36:BO:134:ALA:HB3	1.62	0.99
41:BT:17:ILE:CA	41:BT:20:LEU:HG	1.93	0.99
42:BU:14:VAL:HG12	42:BU:15:GLU:H	1.27	0.99
1:AA:1234:C:H5'	1:AA:1364:U:O2'	1.63	0.99
4:AE:95:GLN:HG3	4:AE:148:TYR:HB3	1.39	0.99
12:AM:30:SER:HB2	12:AM:81:THR:CA	1.91	0.99
24:BA:1363:C:N4	50:B3:2:LYS:HE2	1.77	0.99
24:BA:1913:A:C2	24:BA:1917:U:C5	2.51	0.99
24:BA:1918:A:H8	24:BA:1918:A:OP2	1.44	0.99
24:BA:2311:A:H3'	24:BA:2312:U:C5	1.96	0.99
24:BA:663:G:O2'	24:BA:940:G:H4'	1.61	0.99
27:BD:120:GLY:O	27:BD:131:LEU:HD11	1.60	0.99
36:BO:45:LEU:HD13	54:B7:59:LYS:CE	1.91	0.99
24:BA:1649:G:N2	38:BQ:107:ASP:HB2	1.77	0.99
39:BR:9:ARG:HH11	39:BR:9:ARG:CB	1.75	0.99
41:BT:27:LEU:O	41:BT:31:SER:HB3	1.63	0.99
26:BC:62:VAL:HB	26:BC:195:ALA:CB	1.92	0.99
1:AA:1256:A:O3'	1:AA:1257:U:H4'	1.62	0.99
1:AA:902:G:O2'	1:AA:903:G:H5'	1.62	0.99
4:AE:222:ILE:HB	4:AE:226:ARG:NH2	1.77	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:29:SER:HB2	10:AK:32:LYS:CE	1.91	0.99
48:B1:60:ASN:O	48:B1:64:ARG:HB2	1.63	0.99
24:BA:1557:C:H2'	24:BA:1558:A:C8	1.97	0.99
24:BA:1570:A:N6	24:BA:1571:A:H62	1.60	0.99
28:BE:36:ARG:HD2	28:BE:41:LYS:HZ1	1.26	0.99
28:BE:49:LEU:HG	28:BE:74:PRO:HG2	1.43	0.99
29:BF:19:GLU:O	29:BF:20:LEU:CD2	2.10	0.99
29:BF:31:HIS:HB2	36:BO:14:LYS:HZ2	1.27	0.99
35:BN:7:TYR:HD1	35:BN:7:TYR:N	1.56	0.99
37:BP:74:TYR:OH	37:BP:94:VAL:HG22	1.62	0.99
43:BV:29:LEU:O	43:BV:33:ARG:HB2	1.61	0.99
1:AA:164:U:H2'	1:AA:165:C:C5	1.97	0.99
1:AA:1197:G:OP1	1:AA:1197:G:H3'	1.62	0.99
1:AA:983:A:H1'	1:AA:1201:A:N7	1.77	0.99
4:AE:161:ALA:HA	4:AE:183:PRO:HB2	1.42	0.99
9:AJ:69:VAL:HG22	9:AJ:135:VAL:HG22	1.39	0.99
49:B2:4:LEU:O	49:B2:37:LEU:HB3	1.60	0.99
24:BA:2019:A:H3'	24:BA:2020:A:H5''	1.43	0.99
24:BA:355:G:H2'	24:BA:356:G:C8	1.97	0.99
27:BD:91:ARG:HH12	27:BD:198:ASN:HB2	1.23	0.99
35:BN:122:LEU:H	40:BS:70:VAL:HG12	0.85	0.99
1:AA:723:U:H5	2:A1:30:U:HO2'	1.01	0.99
3:AB:74:C:C4	24:BA:2556:C:O4'	2.16	0.99
24:BA:1178:C:H2'	24:BA:1179:C:C6	1.98	0.99
24:BA:1625:C:C2'	24:BA:1626:G:H4'	1.91	0.99
24:BA:2206:C:H2'	24:BA:2207:C:H6	1.27	0.99
24:BA:2319:G:H4'	24:BA:2320:A:OP1	1.62	0.99
24:BA:2701:C:H3'	24:BA:2702:U:C5'	1.92	0.99
24:BA:1803:A:H4'	27:BD:257:LEU:HD13	1.41	0.99
35:BN:117:LEU:O	35:BN:119:PRO:HD3	1.61	0.99
35:BN:7:TYR:HB3	35:BN:18:LYS:NZ	1.76	0.99
40:BS:17:THR:HB	40:BS:20:PRO:HD3	1.41	0.99
41:BT:93:LYS:NZ	41:BT:93:LYS:HA	1.76	0.99
49:B2:12:PRO:HA	49:B2:15:TYR:CE2	1.98	0.99
54:B7:8:LYS:H	54:B7:8:LYS:HE2	1.28	0.99
24:BA:1151:G:H5''	41:BT:81:HIS:NE2	1.76	0.99
24:BA:1326:U:H2'	24:BA:1327:C:H5'	1.44	0.99
24:BA:270(O):U:H5''	24:BA:270(P):C:C5	1.97	0.99
24:BA:289:A:H2'	24:BA:351:G:H1	1.23	0.99
27:BD:7:LYS:CG	27:BD:25:THR:HG22	1.93	0.99
30:BG:54:GLU:O	30:BG:57:ALA:HB3	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:37:PHE:HB3	33:BL:57:ILE:HD12	1.45	0.99
35:BN:64:ARG:HH21	35:BN:64:ARG:HG3	1.28	0.99
24:BA:2135:A:H4'	24:BA:2136:C:C5	1.98	0.99
26:BC:103:ILE:HB	26:BC:127:LEU:HD21	1.44	0.99
1:AA:37:U:H3'	1:AA:37:U:C6	1.96	0.99
1:AA:8:A:H1'	7:AH:102:ALA:O	1.61	0.99
12:AM:18:ALA:HB3	12:AM:91:PRO:HB3	1.41	0.99
1:AA:37:U:OP1	14:AO:123:LYS:HB3	1.63	0.99
48:B1:20:VAL:HG23	48:B1:52:ILE:HG23	1.43	0.99
53:B6:30:VAL:HG13	53:B6:33:ARG:CZ	1.90	0.99
24:BA:1342:A:C2'	24:BA:1345:C:H41	1.73	0.99
24:BA:1842:G:H2'	24:BA:1843:C:H6	1.28	0.99
24:BA:270(M):U:H4'	24:BA:270(N):G:H4'	1.01	0.99
24:BA:479:A:H1'	24:BA:480:A:N7	1.76	0.99
29:BF:183:VAL:HA	29:BF:186:ILE:HD12	1.43	0.99
37:BP:121:ALA:O	37:BP:125:LEU:HG	1.62	0.99
24:BA:2120:G:N2	26:BC:167:LYS:NZ	2.11	0.99
1:AA:781:A:H2'	1:AA:782:A:C5'	1.92	0.98
24:BA:1450:C:O2'	24:BA:1451:C:H4'	1.63	0.98
24:BA:241:A:H1'	24:BA:243:U:H1'	1.41	0.98
24:BA:747:U:H2'	24:BA:2613:U:O4	1.61	0.98
28:BE:116:VAL:CG2	28:BE:138:PRO:HA	1.93	0.98
30:BG:163:ALA:HB2	30:BG:172:LEU:HD23	1.43	0.98
36:BO:72:PRO:HB2	36:BO:111:ARG:HB3	1.41	0.98
45:BX:22:GLY:HA3	45:BX:73:ARG:HH12	0.85	0.98
1:AA:1413:A:N6	1:AA:1488:G:C6	2.31	0.98
6:AG:60:GLU:OE2	6:AG:199:ASN:HB3	1.61	0.98
38:BQ:10:LEU:HD13	38:BQ:21:TYR:OH	1.64	0.98
38:BQ:16:HIS:O	38:BQ:19:ALA:HB3	1.64	0.98
1:AA:1077:G:H22	1:AA:1079:G:H3'	1.21	0.98
1:AA:186(B):C:H4'	22:AW:89:ARG:HH12	1.27	0.98
1:AA:475:G:H2'	1:AA:476:G:H8	1.26	0.98
1:AA:888:G:H21	1:AA:909:A:N6	1.60	0.98
10:AK:100:ILE:HD12	10:AK:100:ILE:H	1.27	0.98
10:AK:129:VAL:HG22	10:AK:130:GLY:H	1.26	0.98
15:AP:74:VAL:HG12	15:AP:78:ILE:HD11	1.45	0.98
21:AV:69:HIS:HB2	21:AV:74:PHE:CZ	1.96	0.98
54:B7:26:LYS:HA	54:B7:47:LYS:HG2	1.45	0.98
24:BA:1186:G:H8	24:BA:1187:G:C8	1.80	0.98
24:BA:1359:A:H62	24:BA:1371:G:H21	1.02	0.98
35:BN:24:VAL:HA	35:BN:39:ILE:HG22	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:71:ARG:O	39:BR:74:ALA:HB3	1.62	0.98
43:BV:6:ILE:HG12	43:BV:104:THR:HA	1.44	0.98
32:BK:125:GLU:HB3	32:BK:143:SER:CB	1.93	0.98
1:AA:1206:G:H5'	5:AF:194:GLY:HA2	1.45	0.98
1:AA:1241:G:H2'	1:AA:1242:C:C6	1.98	0.98
19:AT:82:MET:O	19:AT:85:VAL:HB	1.61	0.98
24:BA:1022:G:OP1	24:BA:1022:G:H4'	1.62	0.98
24:BA:150:C:H42	24:BA:176:G:H1	1.01	0.98
24:BA:1697:G:C5'	24:BA:1698:A:H5'	1.93	0.98
24:BA:27:G:N1	24:BA:512:G:H2'	1.78	0.98
27:BD:133:LEU:HD11	27:BD:185:VAL:HG12	1.43	0.98
27:BD:61:LEU:HB2	27:BD:86:PRO:HG2	1.43	0.98
31:BH:84:SER:HA	31:BH:134:SER:HA	1.42	0.98
40:BS:53:ARG:HA	40:BS:53:ARG:NE	1.73	0.98
41:BT:44:ASN:ND2	42:BU:78:LYS:HG2	1.76	0.98
44:BW:36:LYS:HD2	44:BW:54:VAL:HG12	1.42	0.98
46:BY:157:LEU:HD13	46:BY:161:VAL:HG13	1.44	0.98
14:AO:60:LEU:HD13	14:AO:60:LEU:H	1.25	0.98
24:BA:2023:G:H2'	24:BA:2024:G:H8	1.21	0.98
24:BA:279:C:N4	24:BA:359:A:N3	2.11	0.98
24:BA:839:U:H2'	24:BA:840:C:C6	1.96	0.98
30:BG:77:ILE:HA	30:BG:83:ARG:HE	1.26	0.98
24:BA:623:G:H3'	36:BO:105:LEU:HD22	1.45	0.98
37:BP:12:GLN:HE22	37:BP:13:GLN:NE2	1.59	0.98
38:BQ:41:ALA:HB1	38:BQ:114:VAL:HG21	1.43	0.98
46:BY:158:PRO:HB2	46:BY:159:PRO:HD2	1.45	0.98
32:BK:54:GLN:NE2	32:BK:58:LEU:HG	1.76	0.98
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.27	0.98
1:AA:1339:A:H2'	1:AA:1340:A:H5'	1.44	0.98
1:AA:169:C:H2'	1:AA:170:U:C6	1.98	0.98
1:AA:384:G:H2'	1:AA:385:C:C6	1.98	0.98
52:B5:26:ASN:O	52:B5:27:LYS:HB2	1.63	0.98
55:B8:2:LYS:HG2	55:B8:35:ARG:HB2	1.00	0.98
25:BB:48:A:H2'	25:BB:49:C:C6	1.98	0.98
28:BE:117:MET:HG2	28:BE:136:ARG:HE	1.25	0.98
42:BU:62:LEU:HD22	42:BU:99:ILE:H	1.25	0.98
2:A1:30:U:H6	2:A1:30:U:H5'	1.26	0.98
1:AA:1066:C:H3'	1:AA:1067:A:H8	1.27	0.98
10:AK:38:ILE:HG13	10:AK:118:VAL:HG11	1.43	0.98
15:AP:56:LEU:O	15:AP:59:TYR:HB3	1.64	0.98
52:B5:31:PRO:HB3	52:B5:34:LEU:HD12	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:48:LYS:HG3	53:B6:49:ARG:H	0.83	0.98
24:BA:185:U:H2'	24:BA:186:G:C8	1.99	0.98
24:BA:477:A:N6	24:BA:502:A:H61	1.58	0.98
25:BB:71:C:H2'	25:BB:72:G:C5'	1.93	0.98
24:BA:1244:G:H5'	36:BO:9:ASN:HB3	1.44	0.98
24:BA:2018:G:H1'	41:BT:34:LYS:HZ2	1.28	0.98
43:BV:16:LYS:H	43:BV:16:LYS:HD3	1.24	0.98
44:BW:73:ARG:HB3	44:BW:73:ARG:NH1	1.79	0.98
1:AA:22:G:H2'	1:AA:23:C:H6	1.22	0.98
6:AG:53:ASP:O	6:AG:56:VAL:HB	1.60	0.98
1:AA:1349:A:OP2	11:AL:118:LYS:HD2	1.62	0.98
15:AP:108:ARG:HH11	15:AP:108:ARG:HA	0.82	0.98
50:B3:5:ILE:HG23	50:B3:57:GLU:HB2	1.42	0.98
24:BA:271(B):G:H4'	24:BA:271(C):U:OP2	1.64	0.98
24:BA:559:G:H5'	24:BA:559:G:H8	1.28	0.98
27:BD:183:ARG:HG2	27:BD:268:ARG:CB	1.93	0.98
35:BN:68:GLU:HA	35:BN:104:ARG:NH1	1.79	0.98
1:AA:259:G:H2'	1:AA:260:G:C8	1.99	0.98
4:AE:111:ARG:HH11	4:AE:111:ARG:HA	1.25	0.98
4:AE:47:THR:O	4:AE:51:LEU:HG	1.64	0.98
10:AK:26:VAL:HG22	10:AK:27:PRO:HD2	1.42	0.98
11:AL:47:LEU:HD12	11:AL:51:ARG:HH22	1.24	0.98
24:BA:1300:U:H2'	24:BA:1626:G:N2	1.79	0.98
24:BA:1966:A:H1'	24:BA:2593:U:H5'	1.45	0.98
27:BD:46:GLN:OE1	27:BD:51:VAL:HG23	1.61	0.98
28:BE:108:SER:OG	28:BE:164:ARG:HA	1.64	0.98
30:BG:47:LYS:HD3	30:BG:72:ARG:C	1.84	0.98
35:BN:11:ALA:CB	35:BN:97:ARG:HH12	1.76	0.98
46:BY:57:ILE:HG23	46:BY:69:THR:O	1.62	0.98
1:AA:50:A:C5'	1:AA:51:A:H5'	1.93	0.98
4:AE:217:ARG:HA	4:AE:220:ASP:OD2	1.64	0.98
6:AG:11:LEU:O	6:AG:19:LEU:HD12	1.64	0.98
9:AJ:5:ARG:HD2	9:AJ:7:ALA:H	1.29	0.98
51:B4:39:MET:HE3	51:B4:41:PRO:HD3	1.40	0.98
24:BA:1050:A:C2	24:BA:2751:G:H5'	1.99	0.98
24:BA:603:A:N6	24:BA:624:C:N4	2.11	0.98
25:BB:24:G:O6	25:BB:56:G:H2'	1.64	0.98
28:BE:49:LEU:HD22	28:BE:76:ARG:C	1.85	0.98
35:BN:24:VAL:HG21	35:BN:26:LYS:HE3	1.44	0.98
42:BU:20:LEU:HB2	42:BU:95:LEU:HD22	1.46	0.98
32:BK:77:LEU:HD12	32:BK:142:VAL:HG13	1.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:96:ASP:HA	32:BK:99:GLU:OE1	1.64	0.98
24:BA:2103:C:H2'	24:BA:2104:G:H8	1.26	0.98
1:AA:1080:A:H5'	7:AH:14:ARG:HH21	1.24	0.97
7:AH:152:ARG:CZ	10:AK:43:GLY:HA3	1.93	0.97
7:AH:51:VAL:HB	7:AH:52:PRO:HD3	1.45	0.97
18:AS:4:ILE:HG23	18:AS:21:VAL:CG1	1.93	0.97
18:AS:60:LEU:HA	18:AS:64:ALA:HB3	1.46	0.97
24:BA:2623:G:N2	51:B4:22:HIS:HE1	1.60	0.97
24:BA:1241:A:H3'	24:BA:1241:A:N3	1.79	0.97
24:BA:1697:G:H5''	24:BA:1698:A:H5'	1.46	0.97
24:BA:411:G:H21	24:BA:2408:U:H3	1.12	0.97
24:BA:451:C:H41	24:BA:453:C:H3'	1.26	0.97
30:BG:53:LEU:HD23	30:BG:71:THR:H	1.26	0.97
33:BL:76:TYR:O	33:BL:80:LYS:HD3	1.61	0.97
36:BO:46:LYS:H	36:BO:46:LYS:HE3	1.21	0.97
24:BA:2392:A:H1'	36:BO:55:ARG:HH12	0.84	0.97
24:BA:2126:A:C5	24:BA:2163:C:H4'	1.99	0.97
1:AA:1477:C:H2'	1:AA:1478:C:C6	1.97	0.97
1:AA:495:A:H1'	1:AA:496:A:C8	1.98	0.97
1:AA:528:C:N4	14:AO:49:ASN:HD21	1.62	0.97
6:AG:20:TYR:HA	6:AG:26:CYS:O	1.61	0.97
49:B2:4:LEU:HD21	49:B2:56:VAL:HG23	1.42	0.97
24:BA:2459:A:N3	24:BA:2460:U:C1'	2.26	0.97
24:BA:575:A:O2'	24:BA:576:U:H5'	1.63	0.97
24:BA:627:A:H61	24:BA:638:G:H1'	1.27	0.97
24:BA:653:A:H62	24:BA:655:A:H1'	1.28	0.97
24:BA:674:G:H4'	29:BF:74:ARG:CZ	1.94	0.97
24:BA:2392:A:C1'	36:BO:55:ARG:HH12	1.77	0.97
43:BV:48:ALA:HA	43:BV:51:LEU:HD22	1.46	0.97
25:BB:77:U:O3'	46:BY:78:LYS:HE3	1.62	0.97
1:AA:1314:C:H3'	21:AV:6:LYS:HD3	1.47	0.97
1:AA:129(A):G:H2'	1:AA:189:U:C6	1.98	0.97
4:AE:166:ASP:O	4:AE:169:LYS:HB3	1.64	0.97
9:AJ:155:ARG:NH1	9:AJ:156:TRP:H	1.62	0.97
20:AU:74:ARG:HB3	20:AU:81:PHE:CD2	1.98	0.97
24:BA:2491:U:C6	24:BA:2492:U:H5'	1.98	0.97
25:BB:89(A):A:C2'	25:BB:90:C:H5'	1.93	0.97
28:BE:30:PRO:HB2	28:BE:48:GLN:HB2	1.45	0.97
30:BG:56:ALA:HA	30:BG:59:GLU:OE1	1.64	0.97
40:BS:62:THR:HG22	40:BS:79:HIS:HA	0.98	0.97
26:BC:83:ILE:O	26:BC:87:GLU:HB2	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:863:U:H2'	1:AA:863:U:O2	1.64	0.97
1:AA:962:C:H4'	1:AA:1200:C:N4	1.78	0.97
4:AE:102:LEU:CD1	4:AE:102:LEU:H	1.77	0.97
12:AM:7:LYS:O	12:AM:97:GLU:HB2	1.64	0.97
54:B7:25:MET:O	54:B7:27:THR:HG22	1.64	0.97
24:BA:2812:G:H2'	24:BA:2813:A:C8	1.99	0.97
24:BA:296:C:H2'	24:BA:297:C:C6	1.98	0.97
24:BA:728:G:HO2'	24:BA:729:G:H8	0.98	0.97
28:BE:27:LEU:HD11	28:BE:30:PRO:HD3	1.46	0.97
32:BK:2:LYS:HD2	32:BK:39:ALA:HB2	1.44	0.97
39:BR:25:ARG:HA	39:BR:87:PHE:O	1.64	0.97
40:BS:64:ARG:HA	40:BS:64:ARG:HH11	0.80	0.97
43:BV:78:GLU:CD	43:BV:99:ARG:HB3	1.83	0.97
43:BV:14:PRO:HD3	43:BV:78:GLU:OE1	1.62	0.97
46:BY:165:VAL:HG12	46:BY:166:SER:N	1.75	0.97
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.29	0.97
1:AA:279:A:H5'	1:AA:280:C:H3'	1.47	0.97
6:AG:36:ARG:HB3	6:AG:38:TYR:CZ	1.98	0.97
9:AJ:31:MET:HG2	9:AJ:32:ARG:N	1.77	0.97
24:BA:1203:G:C5	24:BA:1241:A:C8	2.49	0.97
24:BA:1405:U:H2'	24:BA:1406:U:C5	2.00	0.97
3:AB:63:G:O2'	24:BA:2482:G:H4'	1.63	0.97
24:BA:2542:A:H4'	24:BA:2543:G:OP1	1.62	0.97
24:BA:570:G:N1	24:BA:2498:C:H4'	1.79	0.97
24:BA:988:A:C3'	49:B2:10:LYS:HZ1	1.78	0.97
24:BA:1453:A:H61	38:BQ:63:ARG:HH21	0.98	0.97
1:AA:979:C:H5''	1:AA:1222:G:O6	1.63	0.97
1:AA:781:A:H4'	1:AA:1522:U:O2'	1.64	0.97
8:AI:76:ALA:HB1	8:AI:80:ARG:HH12	1.25	0.97
9:AJ:113:GLU:HG3	9:AJ:118:VAL:HB	1.42	0.97
11:AL:79:LEU:HD13	11:AL:101:PHE:HB3	1.47	0.97
1:AA:625:G:OP1	18:AS:9:PHE:HB3	1.65	0.97
20:AU:43:PHE:O	20:AU:51:LEU:HD13	1.64	0.97
53:B6:17:GLY:H	53:B6:21:ARG:HH22	1.07	0.97
24:BA:2361:A:OP2	54:B7:28:GLY:HA2	1.62	0.97
24:BA:1202:C:C6	24:BA:1203:G:H1'	1.97	0.97
24:BA:2064:C:H1'	24:BA:2450:A:N6	1.79	0.97
24:BA:2491:U:C6	24:BA:2491:U:C3'	2.46	0.97
24:BA:2581:G:N1	24:BA:2610:C:H6	1.60	0.97
24:BA:2677:G:O2'	24:BA:2678:C:H5'	1.64	0.97
27:BD:171:ASP:O	27:BD:186:HIS:HA	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:23:GLY:CA	37:BP:101:ARG:HH21	1.77	0.97
41:BT:17:ILE:HA	41:BT:20:LEU:CG	1.93	0.97
45:BX:97:ARG:HA	45:BX:101:LYS:HG3	1.46	0.97
1:AA:265:G:O2'	1:AA:266:G:H5'	1.65	0.97
10:AK:98:LYS:HZ2	10:AK:98:LYS:N	1.62	0.97
19:AT:59:ILE:HD12	19:AT:60:ILE:H	1.28	0.97
50:B3:68:ARG:NH1	50:B3:68:ARG:H	1.62	0.97
54:B7:23:VAL:HG22	54:B7:47:LYS:O	1.65	0.97
24:BA:1044:G:H4'	24:BA:1047:G:H1'	1.43	0.97
24:BA:1264:G:H3'	24:BA:1265:A:H5''	1.43	0.97
24:BA:1555:G:H2'	24:BA:1556:C:H6	1.16	0.97
24:BA:566:U:H5''	42:BU:82:ARG:NH1	1.80	0.97
27:BD:147:LEU:HA	27:BD:185:VAL:HG13	1.46	0.97
27:BD:134:ARG:CA	27:BD:168:ARG:HH12	1.77	0.97
27:BD:60:ARG:HD3	27:BD:62:TYR:HE2	1.28	0.97
27:BD:63:ARG:HH11	27:BD:85:ASP:HB2	1.27	0.97
28:BE:49:LEU:HA	28:BE:76:ARG:O	1.65	0.97
34:BM:111:PRO:O	34:BM:114:ARG:HB3	1.65	0.97
34:BM:86:PRO:HB2	34:BM:89:LYS:NZ	1.79	0.97
43:BV:28:SER:HA	43:BV:70:TYR:HA	1.45	0.97
1:AA:665:A:H2'	1:AA:725:G:H22	1.22	0.97
4:AE:20:GLU:HA	4:AE:21:ARG:HH21	1.29	0.97
6:AG:162:LEU:HD13	6:AG:181:MET:HG2	1.42	0.97
12:AM:23:ILE:HG13	12:AM:85:LEU:HB3	1.45	0.97
49:B2:4:LEU:HB3	49:B2:37:LEU:CD2	1.95	0.97
49:B2:9:VAL:HG22	49:B2:53:LEU:O	1.63	0.97
54:B7:50:LEU:CD2	54:B7:51:ALA:H	1.78	0.97
24:BA:1786:A:H4'	24:BA:1938:A:H61	1.27	0.97
24:BA:2346:A:N6	52:B5:37:ARG:HH12	1.62	0.97
24:BA:2598:A:OP1	27:BD:234:GLY:HA3	1.64	0.97
24:BA:68:G:H2'	24:BA:69:C:C6	1.99	0.97
25:BB:7:G:H4'	39:BR:29:PHE:CE2	1.99	0.97
43:BV:4:LYS:HA	43:BV:106:ILE:HD12	1.45	0.97
24:BA:1488:G:C2'	24:BA:1489:U:H5'	1.93	0.97
1:AA:587:G:H1'	1:AA:755:G:H22	1.29	0.97
17:AR:62:GLN:O	17:AR:66:LEU:HD23	1.65	0.97
50:B3:47:GLN:HA	50:B3:52:THR:CB	1.95	0.97
24:BA:469:G:H22	53:B6:40:TRP:HZ2	0.97	0.97
53:B6:42:LEU:HB3	53:B6:44:PRO:HG2	1.46	0.97
24:BA:1086:A:H3'	24:BA:1087:G:H5'	1.44	0.97
24:BA:1844:C:OP1	27:BD:255:LYS:HA	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1977:A:H2'	24:BA:1978:A:C8	1.99	0.97
24:BA:2445:G:H2'	24:BA:2446:G:H8	1.27	0.97
24:BA:343:C:O2'	24:BA:344:G:H5'	1.63	0.97
28:BE:45:THR:CB	28:BE:81:ILE:HA	1.95	0.97
30:BG:131:TYR:CG	30:BG:132:ASN:N	2.29	0.97
34:BM:109:LYS:NZ	34:BM:110:GLY:H	1.63	0.97
34:BM:19:GLU:HB2	34:BM:56:ASN:HB3	1.46	0.97
24:BA:2124:G:H4'	26:BC:42:GLU:CG	1.94	0.97
3:AC:9:A:H1'	3:AC:46:G:H1'	1.42	0.97
4:AE:144:ARG:HA	4:AE:147:LYS:HB2	1.47	0.97
10:AK:46:LYS:HE3	10:AK:64:LYS:HG3	1.44	0.97
10:AK:87:SER:CB	10:AK:92:ARG:HA	1.95	0.97
14:AO:101:VAL:O	14:AO:104:VAL:HG23	1.64	0.97
24:BA:185:U:H2'	24:BA:186:G:H8	1.30	0.97
24:BA:343:C:C2'	24:BA:344:G:H5'	1.95	0.97
24:BA:612:G:H4'	24:BA:616:A:H61	1.15	0.97
24:BA:624:C:H41	36:BO:104:GLY:HA2	1.27	0.97
29:BF:122:LYS:HE3	29:BF:192:LEU:HD12	1.45	0.97
30:BG:2:PRO:O	30:BG:5:VAL:HB	1.65	0.97
33:BL:56:GLU:O	33:BL:67:PHE:HB3	1.64	0.97
37:BP:121:ALA:O	37:BP:124:LYS:HB2	1.63	0.97
40:BS:111:ARG:HA	40:BS:114:LEU:HD12	1.44	0.97
41:BT:53:ARG:HB2	41:BT:53:ARG:HH11	1.29	0.97
46:BY:57:ILE:CG1	46:BY:70:LEU:HB3	1.94	0.97
9:AJ:143:ARG:NH1	9:AJ:144:MET:HB2	1.79	0.96
9:AJ:87:VAL:HG13	9:AJ:152:ALA:HA	1.44	0.96
10:AK:36:LEU:H	10:AK:36:LEU:HD23	1.30	0.96
10:AK:64:LYS:HD3	10:AK:79:VAL:HG11	1.47	0.96
1:AA:1180:A:OP1	11:AL:102:LEU:HD12	1.65	0.96
20:AU:41:LYS:O	20:AU:44:LEU:HG	1.63	0.96
22:AW:51:GLU:HA	22:AW:54:LYS:CD	1.95	0.96
24:BA:593:G:OP1	54:B7:62:LEU:HD21	1.63	0.96
24:BA:1061:U:H4'	24:BA:1070:A:C4'	1.95	0.96
24:BA:1222:C:N4	24:BA:1227:A:N6	2.12	0.96
24:BA:640:C:H2'	24:BA:641:C:C5'	1.94	0.96
27:BD:232:PRO:HG2	27:BD:247:ALA:CA	1.95	0.96
24:BA:2596:U:C2'	27:BD:242:ARG:CZ	2.43	0.96
35:BN:94:ARG:HG3	35:BN:95:GLY:N	1.78	0.96
36:BO:128:HIS:HA	36:BO:147:LEU:HD21	1.44	0.96
37:BP:106:VAL:HG22	37:BP:107:ALA:N	1.79	0.96
38:BQ:83:ILE:HG23	38:BQ:86:ARG:CZ	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:75:ILE:HG22	45:BX:100:ALA:HB2	1.44	0.96
1:AA:194:C:H2'	1:AA:195:A:H5''	1.47	0.96
10:AK:45:ILE:CD1	10:AK:48:TYR:HB3	1.94	0.96
21:AV:27:GLU:HG2	21:AV:29:ARG:H	1.29	0.96
49:B2:3:ARG:NH1	49:B2:59:VAL:HB	1.79	0.96
24:BA:1364:G:N7	50:B3:2:LYS:HB2	1.80	0.96
24:BA:176:G:H2'	24:BA:177:G:O4'	1.64	0.96
24:BA:673:C:H4'	29:BF:82:ILE:HD12	1.45	0.96
24:BA:763:G:O2'	24:BA:764:A:H5''	1.65	0.96
28:BE:105:THR:O	28:BE:196:VAL:HG13	1.63	0.96
31:BH:18:GLU:OE2	31:BH:25:LYS:HB3	1.66	0.96
35:BN:97:ARG:HH11	35:BN:98:VAL:C	1.68	0.96
36:BO:13:ASN:HD22	36:BO:14:LYS:H	1.12	0.96
38:BQ:58:GLY:HA2	38:BQ:80:PHE:CE2	2.00	0.96
39:BR:28:VAL:HG22	39:BR:29:PHE:H	1.24	0.96
40:BS:30:VAL:HG22	40:BS:32:TYR:CE2	1.99	0.96
1:AA:1004:A:H3'	1:AA:1025:U:C4	2.01	0.96
1:AA:265:G:H2'	1:AA:267:C:H5	1.27	0.96
14:AO:28:LYS:HZ1	14:AO:33:ARG:HH22	1.08	0.96
53:B6:32:LYS:HA	53:B6:35:ARG:NH1	1.81	0.96
24:BA:1071:G:H2'	24:BA:1072:C:H5'	1.47	0.96
24:BA:1206:G:H3'	24:BA:1206:G:H8	1.28	0.96
24:BA:1788:C:C2'	27:BD:222:ARG:HH21	1.79	0.96
24:BA:349:G:H2'	24:BA:350:U:C6	2.00	0.96
27:BD:168:ARG:HD3	27:BD:173:VAL:HG22	1.45	0.96
28:BE:133:LYS:NZ	28:BE:137:HIS:HB3	1.81	0.96
30:BG:39:ILE:HG23	30:BG:157:ILE:HB	1.47	0.96
33:BL:57:ILE:HA	33:BL:66:THR:O	1.64	0.96
42:BU:62:LEU:HD22	42:BU:98:GLU:HA	1.44	0.96
46:BY:127:LYS:NZ	46:BY:165:VAL:HB	1.80	0.96
26:BC:86:ALA:HA	26:BC:150:GLY:HA2	1.45	0.96
1:AA:1329:A:OP1	15:AP:29:ARG:HG2	1.64	0.96
4:AE:81:VAL:HG12	4:AE:92:TYR:HD1	1.27	0.96
12:AM:63:PHE:HB3	16:AQ:58:LYS:HA	1.47	0.96
19:AT:59:ILE:CD1	19:AT:71:PHE:HB3	1.95	0.96
52:B5:25:LYS:HE3	54:B7:35:GLN:O	1.66	0.96
24:BA:2018:G:H1'	41:BT:34:LYS:NZ	1.80	0.96
24:BA:308:G:N2	24:BA:309:G:H1'	1.80	0.96
24:BA:1818:U:H5''	27:BD:158:ALA:HB2	1.45	0.96
29:BF:183:VAL:O	29:BF:186:ILE:HB	1.66	0.96
33:BL:78:ILE:HD13	33:BL:131:ALA:HB2	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:636:G:N2	36:BO:75:ILE:HG23	1.80	0.96
1:AA:41:G:H2'	1:AA:42:G:C8	1.98	0.96
4:AE:78:GLN:HG3	4:AE:94:ASN:HB3	1.45	0.96
10:AK:12:ARG:NH1	10:AK:27:PRO:HD3	1.80	0.96
14:AO:39:VAL:HB	14:AO:57:LYS:HB2	1.47	0.96
17:AR:54:ARG:O	17:AR:57:LEU:HB2	1.63	0.96
17:AR:80:ALA:O	17:AR:83:GLU:HB3	1.63	0.96
18:AS:21:VAL:HG21	18:AS:59:TRP:NE1	1.80	0.96
54:B7:21:LYS:HZ2	54:B7:21:LYS:HB2	1.29	0.96
24:BA:125:G:N2	53:B6:10:ARG:HA	1.80	0.96
24:BA:1351:C:H2'	24:BA:1352:U:C6	2.00	0.96
24:BA:740:U:H1'	24:BA:1784:A:N7	1.80	0.96
27:BD:70:TRP:HA	27:BD:73:VAL:HG13	1.44	0.96
34:BM:67:LEU:H	34:BM:87:LEU:CD2	1.77	0.96
37:BP:16:ARG:HG3	37:BP:72:LYS:HD2	1.47	0.96
37:BP:66:ILE:HG22	37:BP:67:ARG:N	1.69	0.96
41:BT:59:ARG:O	41:BT:62:ILE:HB	1.65	0.96
44:BW:85:PRO:HG2	44:BW:87:GLN:HG2	1.47	0.96
1:AA:1129:C:H5'	1:AA:1130:A:OP1	1.64	0.96
4:AE:187:LEU:HD22	4:AE:188:ALA:H	1.31	0.96
5:AF:108:ASN:HD21	5:AF:110:ASN:HB2	1.27	0.96
5:AF:189:ALA:CB	5:AF:196:LEU:HG	1.96	0.96
6:AG:147:ALA:HB2	6:AG:182:LYS:HA	1.46	0.96
11:AL:47:LEU:HD13	11:AL:50:LEU:HB3	1.44	0.96
24:BA:1061:U:H5''	24:BA:1070:A:H4'	1.47	0.96
24:BA:1309:G:O2'	24:BA:1310:G:H5'	1.65	0.96
25:BB:67:G:H2'	25:BB:68:C:C6	2.00	0.96
30:BG:101:ILE:O	30:BG:101:ILE:HD13	1.65	0.96
36:BO:107:LYS:HZ1	36:BO:110:TYR:HB3	1.30	0.96
37:BP:12:GLN:HE22	37:BP:13:GLN:HE21	1.09	0.96
39:BR:9:ARG:HB2	39:BR:9:ARG:HH11	1.25	0.96
40:BS:70:VAL:HB	40:BS:74:ARG:NH1	1.79	0.96
24:BA:531:C:H42	41:BT:38:THR:HA	1.25	0.96
41:BT:74:LEU:HD13	41:BT:78:THR:HG21	1.48	0.96
46:BY:118:GLN:HB2	46:BY:144:LEU:HD22	1.44	0.96
14:AO:126:LYS:N	14:AO:126:LYS:HE3	1.80	0.96
1:AA:296:U:H1'	1:AA:302:G:N2	1.81	0.96
1:AA:1342:C:H1'	11:AL:124:GLN:OE1	1.65	0.96
50:B3:57:GLU:C	50:B3:61:ARG:HG3	1.85	0.96
52:B5:19:ARG:HH12	52:B5:41:PRO:HG3	1.21	0.96
24:BA:1314:C:OP1	24:BA:1332:G:H5'	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1977:A:H2'	24:BA:1978:A:H8	1.28	0.96
24:BA:2607:G:H2'	24:BA:2608:G:H5'	1.48	0.96
31:BH:7:LEU:HG	31:BH:51:ARG:HH21	1.28	0.96
34:BM:30:ILE:O	34:BM:34:LEU:HD12	1.64	0.96
38:BQ:20:LEU:CD2	38:BQ:24:GLN:HG3	1.94	0.96
10:AK:82:HIS:O	10:AK:137:VAL:HA	1.64	0.96
11:AL:48:GLU:HB3	11:AL:78:LYS:NZ	1.81	0.96
14:AO:85:ILE:HD11	14:AO:99:HIS:N	1.80	0.96
54:B7:8:LYS:CD	54:B7:11:LYS:HZ2	1.77	0.96
24:BA:865:C:H42	24:BA:909:A:N6	1.62	0.96
24:BA:969:U:H2'	24:BA:970:C:O4'	1.63	0.96
33:BL:12:LEU:HB3	33:BL:19:PRO:HG3	1.48	0.96
33:BL:10:LEU:HD21	33:BL:57:ILE:HG12	1.46	0.96
39:BR:49:VAL:HG11	39:BR:80:LEU:HG	1.48	0.96
40:BS:29:ARG:HG2	40:BS:51:ARG:HG2	1.45	0.96
47:BZ:29:GLN:O	47:BZ:67:VAL:HG23	1.64	0.96
4:AE:150:SER:HA	4:AE:153:ARG:HB2	1.48	0.96
9:AJ:49:ILE:HG21	9:AJ:121:ALA:HB1	1.48	0.96
8:AI:48:LEU:HB3	20:AU:78:LEU:HD23	1.45	0.96
24:BA:1669:A:H5''	24:BA:2550:G:OP1	1.65	0.96
24:BA:1773:A:N6	24:BA:1829:A:H1'	1.80	0.96
24:BA:221:A:H61	24:BA:265:A:N6	1.63	0.96
24:BA:2528:U:O2'	24:BA:2529:G:H3'	1.66	0.96
24:BA:614:U:H3'	24:BA:615:G:H4'	1.48	0.96
24:BA:976:C:N4	24:BA:988:A:C2	2.34	0.96
28:BE:114:ALA:HB3	28:BE:118:LYS:HB2	1.45	0.96
28:BE:136:ARG:C	28:BE:137:HIS:ND1	2.19	0.96
32:BK:31:LEU:HD11	32:BK:36:ALA:HB3	1.47	0.96
37:BP:118:LEU:HD13	37:BP:131:ILE:HG21	1.43	0.96
43:BV:34:ASN:HA	43:BV:37:ARG:HE	1.30	0.96
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CZ	2.01	0.96
1:AA:1464:G:H2'	1:AA:1465:C:H5	1.25	0.96
13:AN:61:ALA:HB1	13:AN:94:ALA:CB	1.95	0.96
15:AP:66:LEU:HA	15:AP:70:LEU:HD12	1.47	0.96
24:BA:2576:G:C4'	24:BA:2577:A:H5'	1.96	0.96
24:BA:2627:G:H2'	24:BA:2628:C:H5'	1.48	0.96
24:BA:2757:A:H2'	24:BA:2758:A:H5'	1.46	0.96
24:BA:931:G:H8	24:BA:932:G:H1'	1.27	0.96
25:BB:43:C:O2	30:BG:95:ARG:HB2	1.66	0.96
31:BH:153:LYS:N	31:BH:154:PRO:HD2	1.81	0.96
31:BH:38:SER:H	31:BH:41:MET:HE2	1.30	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:25:ASP:HB3	37:BP:102:VAL:H	1.29	0.96
37:BP:12:GLN:NE2	37:BP:13:GLN:HG2	1.80	0.96
37:BP:16:ARG:CZ	37:BP:73:PRO:HD3	1.96	0.96
41:BT:17:ILE:HA	41:BT:20:LEU:HG	0.99	0.96
24:BA:1248:G:C8	41:BT:2:PRO:HA	2.00	0.96
41:BT:53:ARG:HB2	41:BT:53:ARG:NH1	1.81	0.96
24:BA:995:C:H1'	41:BT:57:PHE:CE2	2.01	0.96
24:BA:993:G:H1'	42:BU:91:TYR:CE2	1.99	0.96
24:BA:1507:A:H2'	24:BA:1507:A:N3	1.80	0.96
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.29	0.95
17:AR:5:LYS:O	17:AR:8:LYS:HB3	1.66	0.95
18:AS:6:LEU:HD13	18:AS:6:LEU:H	1.29	0.95
49:B2:54:VAL:HG22	49:B2:55:ARG:N	1.81	0.95
24:BA:1272:A:OP2	24:BA:1646:C:H2'	1.66	0.95
24:BA:2698:U:H2'	24:BA:2699:C:C6	2.01	0.95
24:BA:862:G:C2	24:BA:863:A:H1'	2.01	0.95
27:BD:27:THR:HG22	27:BD:29:PRO:CD	1.96	0.95
34:BM:15:LEU:HD21	34:BM:137:LYS:HA	1.45	0.95
34:BM:25:ARG:O	34:BM:28:THR:HG23	1.65	0.95
37:BP:99:PRO:O	37:BP:101:ARG:HD3	1.66	0.95
22:AW:87:LYS:HE3	22:AW:87:LYS:HA	1.46	0.95
24:BA:442:G:H4'	29:BF:46:ARG:HG3	1.48	0.95
29:BF:66:PRO:C	29:BF:68:LYS:H	1.64	0.95
38:BQ:32:GLY:HA2	38:BQ:116:LEU:HD21	0.96	0.95
39:BR:74:ALA:HB1	39:BR:108:GLY:N	1.81	0.95
39:BR:76:LYS:O	39:BR:80:LEU:HB2	1.66	0.95
45:BX:47:LYS:NZ	45:BX:51:VAL:HG21	1.82	0.95
26:BC:122:ALA:HB1	26:BC:126:LYS:HD3	1.46	0.95
5:AF:12:LEU:HD21	16:AQ:57:ARG:HG3	1.48	0.95
6:AG:148:VAL:HG21	6:AG:162:LEU:HD11	1.49	0.95
15:AP:8:GLU:HG3	15:AP:22:ILE:HG12	1.47	0.95
20:AU:45:SER:CB	20:AU:51:LEU:HD11	1.95	0.95
50:B3:18:CYS:N	50:B3:33:VAL:HB	1.82	0.95
24:BA:469:G:N2	53:B6:40:TRP:HZ2	1.63	0.95
24:BA:2447:G:N7	24:BA:2500:U:C3'	2.25	0.95
24:BA:2583:G:H2'	24:BA:2584:U:O2	1.65	0.95
24:BA:270(X):G:C2'	24:BA:270(Y):G:H5'	1.96	0.95
24:BA:477:A:H2'	24:BA:478:A:H8	1.28	0.95
27:BD:134:ARG:HD2	27:BD:188:GLU:HA	1.46	0.95
28:BE:49:LEU:HD11	28:BE:74:PRO:HB2	1.48	0.95
31:BH:38:SER:HB3	31:BH:41:MET:CG	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:112:GLU:O	37:BP:115:MET:HB2	1.65	0.95
37:BP:7:MET:N	37:BP:70:PRO:HG2	1.80	0.95
42:BU:43:GLU:H	42:BU:44:LYS:HZ1	0.97	0.95
42:BU:40:LEU:HD23	42:BU:51:VAL:HG12	1.45	0.95
44:BW:27:THR:HB	44:BW:80:ILE:HD12	1.48	0.95
1:AA:101:A:H2'	1:AA:102:G:H8	1.30	0.95
1:AA:778:G:O2'	1:AA:779:C:H5'	1.67	0.95
5:AF:189:ALA:HB3	5:AF:196:LEU:H	1.29	0.95
9:AJ:76:ARG:HB2	9:AJ:156:TRP:NE1	1.81	0.95
15:AP:97:PRO:HB2	15:AP:101:GLN:HB2	1.48	0.95
19:AT:68:ARG:H	19:AT:70:ARG:NH2	1.62	0.95
24:BA:2063:C:H1'	24:BA:2451:A:C2	2.01	0.95
34:BM:68:GLU:H	34:BM:70:LYS:HZ1	1.01	0.95
37:BP:109:VAL:HG11	37:BP:114:ALA:CB	1.95	0.95
37:BP:83:MET:SD	37:BP:83:MET:N	2.26	0.95
42:BU:66:ARG:HE	42:BU:95:LEU:HB2	1.30	0.95
47:BZ:68:GLU:CB	47:BZ:80:HIS:O	2.15	0.95
26:BC:82:LYS:HD2	26:BC:116:THR:HG21	1.47	0.95
2:A1:43:U:H2'	2:A1:44:U:C5	2.01	0.95
1:AA:678:U:H2'	1:AA:679:C:H6	1.26	0.95
4:AE:184:VAL:HB	4:AE:198:ASP:OD1	1.65	0.95
7:AH:33:VAL:HG22	7:AH:43:LEU:HD12	1.49	0.95
50:B3:65:ASP:CA	50:B3:68:ARG:HH22	1.79	0.95
50:B3:7:PRO:HD3	50:B3:56:VAL:CG1	1.96	0.95
24:BA:598:G:H4'	36:BO:12:ALA:HB3	1.45	0.95
27:BD:56:GLY:H	27:BD:217:ARG:HD2	1.26	0.95
37:BP:94:VAL:HG23	37:BP:95:ALA:N	1.80	0.95
46:BY:39:VAL:HG22	46:BY:44:PHE:CE2	2.01	0.95
47:BZ:65:GLY:HA3	47:BZ:81:VAL:HG12	1.45	0.95
3:AD:19:G:H21	3:AD:57:G:H1'	1.32	0.95
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.27	0.95
1:AA:1179:A:H4'	11:AL:103:THR:OG1	1.67	0.95
12:AM:15:THR:OG1	12:AM:94:VAL:HG23	1.66	0.95
49:B2:31:LEU:HD12	49:B2:32:GLN:HE22	1.28	0.95
54:B7:7:HIS:HB2	54:B7:8:LYS:HZ3	1.29	0.95
24:BA:1270:C:H4'	24:BA:1271:G:C5'	1.96	0.95
24:BA:1695:G:H3'	24:BA:1695:G:N3	1.80	0.95
24:BA:1967:C:N4	24:BA:1968:G:N2	2.14	0.95
24:BA:911:A:C8	24:BA:2264:C:H1'	2.00	0.95
24:BA:2587:A:C2'	24:BA:2588:G:H5'	1.95	0.95
24:BA:451:C:N4	24:BA:453:C:H3'	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:8:LYS:CD	28:BE:9:VAL:HG22	1.96	0.95
31:BH:164:TYR:HE2	31:BH:167:GLU:H	1.09	0.95
35:BN:47:ILE:HD12	35:BN:52:VAL:HG22	1.48	0.95
46:BY:39:VAL:HG13	46:BY:44:PHE:CD2	2.01	0.95
24:BA:2124:G:H4'	26:BC:42:GLU:HG3	0.98	0.95
26:BC:82:LYS:HE3	26:BC:147:PHE:HD1	1.31	0.95
26:BC:75:LEU:HD11	26:BC:99:ILE:HG21	1.48	0.95
1:AA:1204:A:C2	5:AF:195:VAL:HG21	2.02	0.95
1:AA:1239:A:H4'	1:AA:1240:U:H5''	1.47	0.95
7:AH:11:ILE:HG22	7:AH:12:LEU:H	1.29	0.95
8:AI:97:PHE:HD2	20:AU:31:LEU:HD13	1.32	0.95
10:AK:7:ALA:HA	10:AK:10:LEU:HD12	1.49	0.95
10:AK:87:SER:HB2	10:AK:92:ARG:CA	1.97	0.95
11:AL:103:THR:HG22	11:AL:104:ARG:H	1.32	0.95
1:AA:523:A:H61	14:AO:53:ARG:NH2	1.65	0.95
24:BA:2573:C:OP1	24:BA:2574:G:H5''	1.66	0.95
24:BA:2615:U:H1'	51:B4:7:PRO:HB3	1.45	0.95
24:BA:2815:C:O2'	24:BA:2816:C:H5'	1.67	0.95
24:BA:545:G:H1'	24:BA:549:G:N2	1.80	0.95
27:BD:95:LEU:HD22	27:BD:96:HIS:H	1.31	0.95
28:BE:64:LYS:HA	28:BE:67:PHE:HB2	1.46	0.95
29:BF:70:THR:C	29:BF:72:ARG:H	1.70	0.95
31:BH:115:VAL:HG13	31:BH:116:GLU:N	1.79	0.95
38:BQ:14:SER:O	38:BQ:17:ARG:HG2	1.67	0.95
42:BU:40:LEU:HD23	42:BU:51:VAL:O	1.66	0.95
42:BU:64:HIS:HA	42:BU:97:LYS:HD2	1.46	0.95
44:BW:72:LYS:O	44:BW:73:ARG:HB2	1.65	0.95
24:BA:2120:G:N2	26:BC:167:LYS:HZ1	1.65	0.95
26:BC:108:MET:SD	26:BC:131:LEU:HD23	2.07	0.95
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.31	0.95
24:BA:1966:A:N3	24:BA:2593:U:H5'	1.81	0.95
24:BA:954:G:H2'	24:BA:955:C:O4'	1.67	0.95
25:BB:67:G:H2'	25:BB:68:C:H6	1.28	0.95
28:BE:110:GLY:HA2	28:BE:161:GLY:O	1.66	0.95
31:BH:24:VAL:HG22	31:BH:35:VAL:O	1.67	0.95
33:BL:10:LEU:HD13	33:BL:27:LEU:HD21	1.48	0.95
38:BQ:88:ARG:NH1	38:BQ:88:ARG:HB2	1.81	0.95
45:BX:46:LYS:NZ	45:BX:52:SER:HB2	1.82	0.95
47:BZ:38:VAL:O	47:BZ:59:LEU:HB2	1.65	0.95
6:AG:82:ALA:CB	6:AG:89:THR:HG23	1.97	0.95
21:AV:32:LYS:HA	21:AV:50:ALA:HB3	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:10:LYS:HZ3	49:B2:12:PRO:HG3	1.30	0.95
54:B7:34:TRP:C	54:B7:36:LYS:N	2.20	0.95
24:BA:1708:C:C2'	24:BA:1709:U:H5''	1.97	0.95
24:BA:2320:A:H1'	24:BA:2333:A:N6	1.81	0.95
27:BD:176:ARG:HH22	27:BD:270:ILE:HD11	1.29	0.95
28:BE:146:THR:HB	28:BE:147:PRO:CD	1.96	0.95
29:BF:65:TRP:NE1	29:BF:73:ALA:HB3	1.81	0.95
34:BM:87:LEU:O	34:BM:90:MET:HB2	1.67	0.95
37:BP:124:LYS:HB3	37:BP:124:LYS:NZ	1.78	0.95
24:BA:535:C:H4'	41:BT:53:ARG:HD2	1.47	0.95
41:BT:67:ALA:HA	41:BT:70:ARG:HH21	1.27	0.95
45:BX:50:ARG:HA	45:BX:54:LYS:HA	1.49	0.95
1:AA:1010:G:N2	1:AA:1020:U:H1'	1.81	0.95
1:AA:375:U:O3'	18:AS:6:LEU:HD21	1.67	0.95
3:AC:75:C:N4	24:BA:2451:A:H4'	1.82	0.95
3:AD:34:G:H3'	3:AD:35:A:C5'	1.97	0.95
10:AK:18:ARG:HA	10:AK:18:ARG:NH1	1.82	0.95
10:AK:90:GLY:O	14:AO:7:ILE:HG21	1.65	0.95
17:AR:70:LEU:HG	17:AR:78:TYR:CG	2.02	0.95
24:BA:1993:U:H2'	24:BA:1994:C:C6	2.02	0.95
24:BA:2453:A:O2'	24:BA:2454:G:H5'	1.65	0.95
24:BA:2461:C:H1'	24:BA:2492:U:H5	1.22	0.95
24:BA:2875:C:H5''	40:BS:3:ARG:HD2	1.44	0.95
24:BA:279:C:N4	24:BA:359:A:H1'	1.82	0.95
24:BA:234:C:N4	24:BA:430:G:H22	1.65	0.95
24:BA:674:G:H5''	29:BF:74:ARG:HH11	1.31	0.95
24:BA:740:U:H5'	24:BA:1784:A:OP1	1.65	0.95
24:BA:932:G:H2'	24:BA:933:A:C8	2.02	0.95
37:BP:81:VAL:HG12	37:BP:82:ARG:H	1.31	0.95
40:BS:35:LYS:HG3	40:BS:84:GLN:O	1.67	0.95
1:AA:416:G:H2'	1:AA:417:C:C6	2.01	0.94
1:AA:736:C:H5''	20:AU:72:ARG:NH2	1.82	0.94
3:AB:54:U:OP1	37:BP:60:ARG:HG2	1.67	0.94
7:AH:145:LYS:O	7:AH:148:VAL:HB	1.65	0.94
10:AK:33:GLU:HG2	10:AK:59:LEU:HD11	1.49	0.94
11:AL:19:LEU:CD2	11:AL:59:PHE:HB3	1.96	0.94
22:AW:49:ALA:HA	22:AW:92:LEU:HD22	1.47	0.94
49:B2:20:LYS:HA	49:B2:23:LEU:HD22	1.46	0.94
24:BA:1049:C:H42	24:BA:1050:A:H62	0.97	0.94
24:BA:1259:G:H2'	24:BA:1260:G:H8	1.30	0.94
24:BA:1543:A:OP2	24:BA:1544:C:H6	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1777:U:O2'	24:BA:1778:U:H5'	1.66	0.94
24:BA:1804:C:H4'	27:BD:250:TRP:HH2	1.12	0.94
24:BA:470:A:C2	24:BA:471:A:H1'	2.01	0.94
24:BA:60:G:H21	24:BA:74:A:H4'	1.30	0.94
27:BD:176:ARG:HH11	27:BD:176:ARG:HG3	1.30	0.94
28:BE:2:LYS:NZ	28:BE:83:ASP:HB2	1.82	0.94
31:BH:43:VAL:HG13	31:BH:51:ARG:O	1.65	0.94
32:BK:5:LEU:HD11	32:BK:17:GLN:HB2	1.48	0.94
24:BA:1006:C:H1'	34:BM:106:MET:SD	2.07	0.94
34:BM:23:LEU:HD11	34:BM:63:THR:N	1.82	0.94
36:BO:113:LYS:HZ2	36:BO:115:LEU:HD12	1.31	0.94
41:BT:55:ARG:CG	41:BT:58:ARG:HH21	1.79	0.94
6:AG:47:ARG:NH1	6:AG:47:ARG:HB2	1.81	0.94
1:AA:12:U:H2'	1:AA:13:U:C5	2.00	0.94
1:AA:520:A:H62	1:AA:529:G:H21	1.02	0.94
9:AJ:145:ALA:O	9:AJ:146:GLU:HB3	1.66	0.94
10:AK:102:ARG:HB3	10:AK:102:ARG:CZ	1.93	0.94
11:AL:78:LYS:HZ2	11:AL:101:PHE:HE2	1.14	0.94
49:B2:18:ASP:O	49:B2:21:ALA:HB3	1.66	0.94
24:BA:1809:A:H5''	24:BA:1810:A:C2	2.01	0.94
24:BA:1939:U:H1'	24:BA:2592:G:O4'	1.66	0.94
24:BA:2282:G:H1	24:BA:2427:C:H42	1.10	0.94
24:BA:2850:A:C2	24:BA:2869:G:H4'	2.03	0.94
24:BA:447:A:H1'	24:BA:449:A:H61	1.32	0.94
24:BA:687:C:H1'	24:BA:788:A:H5'	1.49	0.94
24:BA:2210:G:C5	27:BD:150:LYS:HA	2.01	0.94
28:BE:120:TRP:CZ2	28:BE:122:PHE:HB2	2.02	0.94
38:BQ:12:ARG:CZ	38:BQ:16:HIS:HB3	1.97	0.94
41:BT:19:LYS:HB2	41:BT:19:LYS:NZ	1.81	0.94
24:BA:535:C:H5'	41:BT:49:HIS:HB3	1.44	0.94
41:BT:93:LYS:H	42:BU:10:LYS:HZ2	0.98	0.94
50:B3:5:ILE:CG2	50:B3:7:PRO:HD2	1.95	0.94
51:B4:46:CYS:HB2	51:B4:47:PRO:HD2	1.50	0.94
24:BA:1425:G:H2'	24:BA:1426:G:C8	2.02	0.94
24:BA:1498:C:H6	24:BA:1576:U:H4'	1.31	0.94
24:BA:1647:G:H4'	24:BA:1648:C:OP1	1.63	0.94
24:BA:1809:A:H2'	24:BA:1810:A:H5'	1.49	0.94
24:BA:455:C:H4'	24:BA:456:C:OP1	1.67	0.94
24:BA:674:G:H4'	29:BF:74:ARG:NE	1.82	0.94
24:BA:91:A:N3	24:BA:91:A:H2'	1.81	0.94
24:BA:972:G:OP1	24:BA:974(A):C:H5'	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:119:ALA:HB2	27:BD:130:ALA:H	1.32	0.94
29:BF:130:ALA:HB3	29:BF:142:TRP:CB	1.97	0.94
37:BP:134:ARG:CZ	37:BP:137:TYR:H	1.79	0.94
38:BQ:57:ARG:NE	38:BQ:62:ALA:HB2	1.80	0.94
46:BY:43:GLU:H	46:BY:43:GLU:CD	1.68	0.94
1:AA:564:C:C4	19:AT:31:LEU:HD11	2.02	0.94
6:AG:143:GLY:HA2	6:AG:185:PHE:HB3	1.50	0.94
8:AI:23:LYS:HA	8:AI:26:ILE:CD1	1.97	0.94
8:AI:72:VAL:HG23	8:AI:73:ASN:H	1.32	0.94
9:AJ:86:GLN:HB2	9:AJ:148:ASN:ND2	1.81	0.94
11:AL:97:LYS:HZ1	11:AL:102:LEU:HD13	1.32	0.94
17:AR:77:ARG:HH12	17:AR:81:LEU:CB	1.79	0.94
52:B5:37:ARG:O	52:B5:38:LYS:HB2	1.65	0.94
24:BA:1264:G:H5''	24:BA:1265:A:H5''	1.50	0.94
24:BA:1312:U:H3'	24:BA:1313:U:C6	2.01	0.94
24:BA:2491:U:H6	24:BA:2491:U:C3'	1.79	0.94
24:BA:2812:G:H2'	24:BA:2813:A:H8	1.26	0.94
24:BA:351:G:H1'	24:BA:352:G:N7	1.82	0.94
24:BA:447:A:H1'	24:BA:449:A:N6	1.82	0.94
24:BA:472:A:H2'	24:BA:473:G:H5''	1.45	0.94
31:BH:120:GLY:HA3	31:BH:136:ILE:HG22	1.47	0.94
35:BN:34:THR:O	35:BN:61:VAL:HG11	1.68	0.94
32:BK:83:ALA:HB2	32:BK:88:ILE:HA	1.45	0.94
1:AA:1261:A:N6	1:AA:1274:G:H1'	1.83	0.94
6:AG:57:ARG:HB3	6:AG:206:PHE:HB2	1.47	0.94
1:AA:1226:C:C4	15:AP:104:ARG:HG3	2.02	0.94
22:AW:45:GLN:HE21	22:AW:91:LEU:HD13	1.32	0.94
52:B5:14:THR:HG22	52:B5:51:GLU:HG2	1.47	0.94
53:B6:34:ARG:HH22	53:B6:42:LEU:HA	1.30	0.94
24:BA:1533:C:N3	24:BA:1539:G:N2	2.15	0.94
24:BA:1710:C:H2'	24:BA:1711:C:H6	1.32	0.94
24:BA:270(M):U:H4'	24:BA:270(N):G:C4'	1.95	0.94
30:BG:105:LYS:O	30:BG:109:VAL:HG22	1.67	0.94
25:BB:102:G:H2'	46:BY:73:GLN:NE2	1.81	0.94
24:BA:2132:U:H3'	24:BA:2133:G:H5'	1.48	0.94
26:BC:162:GLU:HG2	26:BC:163:PHE:H	1.30	0.94
1:AA:781:A:C2'	1:AA:782:A:H5'	1.98	0.94
4:AE:23:ARG:HH11	4:AE:24:TRP:N	1.65	0.94
15:AP:64:TRP:O	15:AP:65:LYS:HD2	1.68	0.94
24:BA:1049:C:N4	24:BA:1050:A:H62	1.64	0.94
24:BA:1272:A:O2'	24:BA:1273:U:OP1	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1341:U:H3	24:BA:1398:C:H5'	1.31	0.94
24:BA:1784:A:O2'	24:BA:1785:A:OP 2	1.82	0.94
24:BA:1819:A:H5''	27:BD:178:PRO:CG	1.96	0.94
24:BA:917:A:C3'	24:BA:918:A:H5''	1.96	0.94
27:BD:109:ASP:O	27:BD:111:LEU:HD22	1.68	0.94
28:BE:53:PRO:HG3	28:BE:75:VAL:CG2	1.98	0.94
30:BG:41:GLN:NE2	30:BG:155:MET:HG3	1.83	0.94
36:BO:38:GLN:C	36:BO:40:SER:H	1.62	0.94
40:BS:11:GLU:H	40:BS:11:GLU:CD	1.71	0.94
43:BV:11:ARG:H	43:BV:11:ARG:HH21	1.10	0.94
1:AA:345:C:H4'	1:AA:346:G:O5'	1.66	0.94
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.02	0.94
1:AA:923:A:H2'	1:AA:924:C:C6	2.01	0.94
4:AE:178:ARG:HE	4:AE:196:LEU:HD13	1.25	0.94
5:AF:116:VAL:O	5:AF:119:ARG:HB3	1.67	0.94
1:AA:7:G:H21	7:AH:121:LYS:HG3	1.32	0.94
10:AK:13:ILE:HG22	10:AK:14:ARG:N	1.81	0.94
13:AN:65:ALA:HB1	13:AN:98:LEU:HD23	1.48	0.94
18:AS:4:ILE:HG23	18:AS:21:VAL:HG12	1.50	0.94
24:BA:1565:C:N3	24:BA:1567:A:H1'	1.81	0.94
24:BA:1860:G:H5''	26:BC:206:GLY:HA3	1.48	0.94
24:BA:1911:U:O2'	24:BA:1912:A:H5'	1.67	0.94
24:BA:2296:U:H1'	24:BA:2335:A:N6	1.82	0.94
34:BM:38:HIS:HB3	34:BM:48:MET:HE3	1.47	0.94
35:BN:24:VAL:HA	35:BN:39:ILE:CG2	1.97	0.94
35:BN:8:LEU:HD22	35:BN:9:GLU:H	1.30	0.94
37:BP:32:TYR:HB2	37:BP:105:GLU:O	1.67	0.94
37:BP:75:THR:HG22	37:BP:77:LYS:HD2	1.50	0.94
2:A1:32:U:H2'	2:A1:33:U:C6	2.01	0.94
50:B3:31:ILE:HD13	50:B3:31:ILE:H	1.29	0.94
52:B5:19:ARG:HH12	52:B5:43:CYS:HB2	1.29	0.94
24:BA:1005:C:H5	24:BA:1143:A:OP 1	1.51	0.94
24:BA:1281:G:H2'	24:BA:1282:U:H6	1.33	0.94
24:BA:221:A:H61	24:BA:265:A:H62	0.96	0.94
24:BA:324:A:H62	24:BA:339:U:H1'	1.32	0.94
24:BA:997:G:H5''	41:BT:92:ARG:NH1	1.83	0.94
25:BB:100:G:H2'	25:BB:101:A:C8	2.03	0.94
25:BB:44:G:N2	25:BB:48:A:H1'	1.82	0.94
28:BE:8:LYS:HB3	28:BE:24:THR:HB	1.46	0.94
1:AA:1124:G:N2	1:AA:1126:U:H3	1.64	0.94
1:AA:866:C:C5	1:AA:867:G:H1'	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:38:A:H2'	3:AB:39:U:H5	1.32	0.94
4:AE:14:GLY:HA3	4:AE:209:ARG:HH21	1.33	0.94
6:AG:105:VAL:HG21	6:AG:121:VAL:HG22	1.47	0.94
12:AM:15:THR:HG23	12:AM:16:LEU:HD22	1.47	0.94
13:AN:121:PRO:HG2	13:AN:126:ARG:HG2	1.48	0.94
15:AP:16:ASP:HA	15:AP:19:LEU:HG	1.47	0.94
20:AU:79:LEU:O	20:AU:79:LEU:HD13	1.68	0.94
24:BA:72:U:H1'	48:B1:56:LEU:HD23	1.50	0.94
24:BA:1466:G:H2'	24:BA:1547:C:N4	1.83	0.94
24:BA:1799:G:H3'	27:BD:183:ARG:NH2	1.82	0.94
24:BA:479:A:H1'	24:BA:480:A:C8	2.03	0.94
28:BE:2:LYS:HZ3	28:BE:83:ASP:HB2	1.32	0.94
31:BH:24:VAL:HG23	31:BH:35:VAL:HG23	1.50	0.94
31:BH:94:TYR:H	31:BH:95:ARG:NH2	1.65	0.94
36:BO:107:LYS:HE2	36:BO:110:TYR:CD1	2.02	0.94
36:BO:72:PRO:HB2	36:BO:111:ARG:CB	1.98	0.94
43:BV:11:ARG:HA	43:BV:100:THR:HA	1.50	0.94
45:BX:49:VAL:HG21	45:BX:51:VAL:HB	1.46	0.94
26:BC:75:LEU:HD23	26:BC:77:ILE:HD11	1.49	0.94
3:AB:70:G:H2'	3:AB:71:G:H8	1.32	0.94
15:AP:24:GLY:HA3	15:AP:66:LEU:CB	1.97	0.94
21:AV:53:ASN:ND2	21:AV:56:GLN:HB2	1.83	0.94
1:AA:186(A):C:H1'	22:AW:104:LEU:CD2	1.96	0.94
51:B4:13:LYS:H	51:B4:13:LYS:HD3	1.29	0.94
24:BA:1005:C:O2	34:BM:28:THR:HB	1.68	0.94
24:BA:1177:A:H2'	24:BA:1178:C:C6	2.03	0.94
24:BA:1725:G:N2	24:BA:1726:G:H1'	1.82	0.94
24:BA:2051:A:H4'	28:BE:141:ILE:HD11	1.50	0.94
24:BA:2661:G:H2'	24:BA:2662:A:H8	1.32	0.94
24:BA:494:G:H4'	43:BV:6:ILE:O	1.67	0.94
24:BA:783:A:H4'	24:BA:2588:G:O3'	1.66	0.94
33:BL:38:VAL:O	33:BL:41:PHE:HB2	1.68	0.94
34:BM:102:ALA:O	34:BM:105:GLY:HA3	1.68	0.94
34:BM:45:ASN:O	34:BM:46:VAL:HG23	1.66	0.94
38:BQ:45:ARG:HB2	38:BQ:95:THR:HG21	1.48	0.94
41:BT:55:ARG:HG3	41:BT:58:ARG:NH2	1.82	0.94
45:BX:14:LEU:HB2	45:BX:20:TYR:CA	1.98	0.94
24:BA:2161:C:H2'	24:BA:2162:G:H8	1.32	0.94
1:AA:1226:C:C5	15:AP:104:ARG:HA	2.03	0.94
1:AA:7:G:H1'	1:AA:298:A:C8	2.02	0.94
1:AA:858:G:H22	1:AA:869:G:C3'	1.81	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:108:ARG:NH1	15:AP:111:LYS:HB3	1.82	0.94
22:AW:11:SER:HA	22:AW:13:LEU:HD11	1.48	0.94
24:BA:280:C:OP2	24:BA:280:C:H6	1.50	0.94
37:BP:109:VAL:CG1	37:BP:114:ALA:HB2	1.97	0.94
43:BV:17:VAL:HG23	43:BV:76:VAL:HG11	1.48	0.94
3:AD:8:U:H3	3:AD:14:A:H62	1.01	0.94
26:BC:41:VAL:HG22	26:BC:216:THR:HG22	1.48	0.94
1:AA:1107:C:C2'	1:AA:1108:G:H5'	1.98	0.93
1:AA:538:G:O3'	14:AO:114:LYS:HD3	1.68	0.93
1:AA:553:A:H2'	1:AA:554:C:C6	2.03	0.93
4:AE:17:PHE:HD1	4:AE:18:GLY:N	1.66	0.93
11:AL:116:LYS:HB3	11:AL:122:ALA:HA	1.46	0.93
13:AN:58:PRO:HB3	13:AN:90:GLY:HA3	1.50	0.93
24:BA:1809:A:H61	50:B3:3:GLU:HG3	1.31	0.93
24:BA:1244:G:H5'	36:BO:9:ASN:CB	1.98	0.93
24:BA:1754:C:H2'	24:BA:1755:A:O4'	1.68	0.93
24:BA:391:G:H2'	24:BA:392:C:C6	2.03	0.93
24:BA:917:A:C8	24:BA:917:A:H3'	2.02	0.93
28:BE:37:ARG:O	28:BE:38:THR:HB	1.66	0.93
29:BF:176:LEU:HG	29:BF:178:PRO:HD2	1.48	0.93
24:BA:2306:C:H4'	30:BG:153:ARG:NH2	1.83	0.93
33:BL:79:ARG:HD3	33:BL:134:MET:HG3	1.50	0.93
37:BP:51:ARG:O	37:BP:55:VAL:HG23	1.68	0.93
26:BC:74:VAL:HG22	26:BC:112:ALA:HB3	1.47	0.93
1:AA:1159:U:H5'	1:AA:1160:G:OP1	1.68	0.93
1:AA:817:C:O2'	1:AA:818:G:H5''	1.69	0.93
3:AB:74:C:H42	24:BA:2555:U:C2'	1.79	0.93
9:AJ:74:GLU:HG2	9:AJ:75:VAL:H	1.30	0.93
12:AM:65:LEU:HB2	16:AQ:56:VAL:HG13	1.50	0.93
18:AS:75:ARG:CG	18:AS:80:PHE:HB3	1.97	0.93
53:B6:28:ARG:HA	53:B6:31:LEU:CD1	1.97	0.93
24:BA:1690:A:C2	24:BA:1691:C:H1'	2.04	0.93
24:BA:1996:C:H2'	24:BA:1997:G:C5'	1.97	0.93
24:BA:247:G:H22	54:B7:8:LYS:HD2	1.30	0.93
24:BA:2589:A:O2'	24:BA:2590:A:H5'	1.68	0.93
24:BA:2848:G:N2	24:BA:2867:G:H1'	1.81	0.93
24:BA:371:A:N7	24:BA:424:G:O4'	2.02	0.93
24:BA:443:A:H5'	29:BF:45:ARG:HH12	1.27	0.93
27:BD:13:ARG:NH1	27:BD:19:ALA:HB1	1.83	0.93
29:BF:80:ALA:H	29:BF:83:PHE:HE2	1.11	0.93
25:BB:51:G:H5'	39:BR:60:GLY:HA2	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:15:GLU:HA	42:BU:100:ARG:HH12	1.33	0.93
3:AD:62:C:O2'	26:BC:53:ARG:HG2	1.68	0.93
1:AA:1271:G:OP1	1:AA:1314:C:H5''	1.68	0.93
5:AF:85:ARG:HH21	5:AF:89:GLU:HB2	1.33	0.93
6:AG:20:TYR:CA	6:AG:26:CYS:SG	2.56	0.93
17:AR:70:LEU:HG	17:AR:78:TYR:CD1	2.02	0.93
22:AW:13:LEU:HD12	22:AW:13:LEU:H	1.30	0.93
54:B7:30:ARG:HH21	54:B7:43:GLN:C	1.72	0.93
24:BA:1026:U:H2'	24:BA:1026:U:O2	1.63	0.93
24:BA:1689:A:N6	24:BA:1698:A:C2	2.35	0.93
24:BA:2212:A:H2'	24:BA:2212:A:N3	1.79	0.93
24:BA:2553:G:N7	24:BA:2583:G:H4'	1.83	0.93
39:BR:51:ALA:HB1	39:BR:73:LEU:HG	1.51	0.93
40:BS:30:VAL:HG23	40:BS:89:VAL:O	1.68	0.93
40:BS:64:ARG:HD3	40:BS:65:LYS:N	1.81	0.93
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.67	0.93
1:AA:449:C:H2'	1:AA:450:G:O4'	1.68	0.93
4:AE:193:ASP:OD2	4:AE:196:LEU:HD11	1.68	0.93
15:AP:14:ARG:HG3	15:AP:17:VAL:HG23	1.46	0.93
50:B3:56:VAL:HG12	50:B3:57:GLU:H	1.32	0.93
24:BA:2346:A:H62	52:B5:37:ARG:HH12	0.93	0.93
53:B6:17:GLY:H	53:B6:21:ARG:NH2	1.66	0.93
24:BA:1014:U:O2'	24:BA:1015:G:H5'	1.66	0.93
24:BA:1061:U:C5'	24:BA:1070:A:H4'	1.97	0.93
24:BA:1160:G:C6	24:BA:1161:C:N4	2.37	0.93
24:BA:1689:A:N6	24:BA:1698:A:H2	1.64	0.93
24:BA:2211:G:H3'	24:BA:2211:G:N3	1.83	0.93
31:BH:153:LYS:HB2	31:BH:162:ILE:HG23	1.47	0.93
33:BL:35:MET:HA	33:BL:38:VAL:HB	1.47	0.93
34:BM:7:LYS:HE3	34:BM:8:GLN:N	1.83	0.93
37:BP:134:ARG:NH2	37:BP:137:TYR:H	1.64	0.93
39:BR:49:VAL:HG13	39:BR:76:LYS:HE3	1.50	0.93
24:BA:2121:G:H1'	26:BC:167:LYS:NZ	1.82	0.93
4:AE:42:ILE:CD1	4:AE:202:PRO:HB2	1.97	0.93
1:AA:939:G:C5'	9:AJ:102:ARG:HH22	1.80	0.93
19:AT:92:ARG:O	19:AT:95:TYR:HB2	1.69	0.93
54:B7:29:LYS:HB3	54:B7:34:TRP:CH2	2.02	0.93
24:BA:2307:G:H3'	24:BA:2308:G:O4'	1.68	0.93
24:BA:2455:G:H2'	24:BA:2456:C:C6	2.04	0.93
24:BA:289:A:H2'	24:BA:351:G:N1	1.82	0.93
24:BA:470:A:OP1	24:BA:470:A:H4'	1.67	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:111:LEU:HB3	27:BD:115:GLN:NE2	1.84	0.93
33:BL:18:THR:HG23	33:BL:38:VAL:HG11	1.51	0.93
36:BO:137:LYS:HE3	36:BO:137:LYS:HA	1.49	0.93
37:BP:8:LYS:HZ2	37:BP:93:TYR:HD2	0.94	0.93
41:BT:93:LYS:HA	41:BT:93:LYS:HZ2	1.33	0.93
24:BA:2116:G:H5'	24:BA:2117:A:OP2	1.69	0.93
2:A1:6:U:H2'	2:A1:7:U:C5	2.03	0.93
1:AA:1394:A:N7	1:AA:1501:C:H1'	1.82	0.93
1:AA:169:C:H2'	1:AA:170:U:H6	1.31	0.93
6:AG:170:VAL:H	6:AG:176:LEU:HD22	1.34	0.93
6:AG:98:GLU:HA	6:AG:103:ASN:ND2	1.84	0.93
8:AI:33:TYR:CD1	8:AI:75:LEU:HG	2.01	0.93
10:AK:98:LYS:HZ2	10:AK:98:LYS:H	1.03	0.93
1:AA:950:U:H5''	15:AP:102:ARG:HH22	1.33	0.93
20:AU:72:ARG:O	20:AU:75:ILE:HB	1.68	0.93
24:BA:1809:A:OP1	24:BA:1809:A:H4'	1.66	0.93
24:BA:2213:U:H5'	24:BA:2215:G:C5	2.04	0.93
24:BA:2889:C:H2'	24:BA:2891:G:C8	2.03	0.93
29:BF:131:GLY:HA2	29:BF:138:GLU:HB2	1.49	0.93
35:BN:64:ARG:HG3	35:BN:65:THR:H	1.34	0.93
37:BP:46:GLN:O	37:BP:49:ALA:HB3	1.68	0.93
40:BS:70:VAL:CG2	40:BS:74:ARG:HD3	1.98	0.93
46:BY:111:VAL:HG22	46:BY:117:LEU:HG	1.48	0.93
46:BY:157:LEU:HD21	46:BY:161:VAL:HA	1.50	0.93
24:BA:2122:U:H4'	26:BC:166:ASP:HB2	1.51	0.93
24:BA:1417:C:H42	24:BA:1581:G:H1	1.01	0.93
1:AA:1100:C:H2'	4:AE:98:LEU:CD1	1.98	0.93
7:AH:100:VAL:HG11	7:AH:107:ARG:HG3	1.48	0.93
12:AM:30:SER:CB	12:AM:81:THR:HA	1.99	0.93
1:AA:761:G:H5'	19:AT:102:GLY:CA	1.99	0.93
22:AW:63:ILE:CD1	22:AW:80:ARG:HB3	1.98	0.93
49:B2:6:VAL:HG12	49:B2:55:ARG:O	1.68	0.93
52:B5:19:ARG:NH1	52:B5:43:CYS:HB2	1.82	0.93
24:BA:1270:C:O2'	24:BA:1648:C:OP2	1.87	0.93
24:BA:2405:G:H2'	24:BA:2411:A:N6	1.84	0.93
24:BA:34:C:H2'	24:BA:455:C:N4	1.84	0.93
24:BA:529:A:O2'	24:BA:530:G:N7	2.02	0.93
24:BA:559:G:H2'	24:BA:560:C:H6	1.21	0.93
31:BH:139:GLN:HG3	31:BH:140:LYS:H	1.33	0.93
35:BN:1:MET:HB3	35:BN:66:LYS:HB3	1.49	0.93
36:BO:46:LYS:N	36:BO:46:LYS:HE3	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:79:LEU:HD23	38:BQ:80:PHE:CA	1.99	0.93
41:BT:49:HIS:CD2	41:BT:52:ARG:HH22	1.85	0.93
42:BU:18:LEU:HD12	42:BU:66:ARG:HH12	1.33	0.93
1:AA:1099:G:O2'	1:AA:1542:U:H4'	1.68	0.93
1:AA:1135:U:H4'	1:AA:1136:U:H5	1.33	0.93
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.33	0.93
1:AA:198:G:OP2	1:AA:198:G:H8	1.52	0.93
1:AA:329:A:H4'	1:AA:330:C:OP1	1.65	0.93
1:AA:620:C:C2	6:AG:135:LEU:HD13	2.04	0.93
1:AA:1338:G:N2	3:AC:41:C:H1'	1.84	0.93
55:B8:19:ARG:O	55:B8:22:ARG:CB	2.16	0.93
24:BA:1473:G:H1	24:BA:1519:G:H1'	1.30	0.93
24:BA:1448:G:H4'	24:BA:1543:A:C6	2.04	0.93
24:BA:2330:G:H1	24:BA:2385:C:H42	1.01	0.93
24:BA:627:A:H4'	24:BA:627:A:OP2	1.67	0.93
24:BA:675:A:H4'	29:BF:67:GLN:NE2	1.82	0.93
24:BA:674:G:H5''	29:BF:74:ARG:NH1	1.81	0.93
31:BH:19:VAL:HG12	31:BH:24:VAL:HG12	1.51	0.93
38:BQ:41:ALA:HB1	38:BQ:97:VAL:HG13	1.51	0.93
1:AA:273:A:C2	1:AA:274:A:H1'	2.04	0.93
1:AA:362:G:H8	14:AO:34:ARG:HH22	0.98	0.93
6:AG:173:TRP:NE1	6:AG:189:PRO:HB3	1.83	0.93
8:AI:14:LEU:HD11	8:AI:19:LEU:N	1.84	0.93
49:B2:3:ARG:HH11	49:B2:3:ARG:HB3	1.34	0.93
49:B2:26:LEU:HG	49:B2:47:VAL:HG22	1.50	0.93
24:BA:234:C:H42	24:BA:430:G:H22	1.05	0.93
24:BA:301:G:H2'	24:BA:302:C:C6	2.03	0.93
24:BA:687:C:O2	24:BA:787:U:O3'	1.85	0.93
28:BE:104:VAL:CG2	28:BE:198:VAL:HG13	1.99	0.93
24:BA:450:G:H5'	29:BF:52:LYS:HD3	1.50	0.93
30:BG:16:ARG:HH21	30:BG:16:ARG:HG3	1.32	0.93
31:BH:105:LEU:HB2	31:BH:113:VAL:HG11	1.51	0.93
33:BL:66:THR:O	33:BL:67:PHE:HB2	1.69	0.93
35:BN:39:ILE:CG1	35:BN:59:LYS:HZ1	1.81	0.93
38:BQ:99:LYS:CD	38:BQ:99:LYS:H	1.74	0.93
40:BS:54:ARG:C	40:BS:64:ARG:HB2	1.88	0.93
1:AA:1084:G:C4	1:AA:1085:U:H5	1.87	0.93
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.04	0.93
1:AA:275:G:O3'	19:AT:14:LYS:HD3	1.69	0.93
1:AA:306:G:H2'	1:AA:307:C:C6	2.03	0.93
1:AA:764:C:H2'	1:AA:765:G:N7	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:31:TYR:CE2	4:AE:200:ILE:HG21	2.03	0.93
8:AI:75:LEU:HD22	8:AI:79:LEU:HD21	1.47	0.93
1:AA:1048:G:H5''	16:AQ:3:ARG:HH11	1.34	0.93
21:AV:22:LEU:HG	21:AV:25:LYS:HZ1	1.33	0.93
49:B2:9:VAL:HG23	49:B2:10:LYS:N	1.83	0.93
51:B4:58:LEU:HD22	51:B4:59:GLU:N	1.83	0.93
24:BA:1650:G:N2	24:BA:1651:G:H1'	1.83	0.93
24:BA:1660:C:N4	24:BA:2001:A:H61	1.65	0.93
24:BA:684:G:H2'	24:BA:687:C:H41	1.25	0.93
24:BA:807:U:O2'	24:BA:808:G:H5'	1.67	0.93
25:BB:29:A:H2'	25:BB:30:C:C6	2.04	0.93
24:BA:1655:A:H4'	28:BE:113:PHE:O	1.69	0.93
40:BS:18:ASP:OD1	40:BS:81:PRO:HG3	1.67	0.93
42:BU:11:GLN:HE22	42:BU:24:LYS:HZ3	0.99	0.93
8:AI:3:ARG:HA	8:AI:67:MET:CE	1.98	0.92
9:AJ:72:ARG:HB3	9:AJ:72:ARG:HH11	1.32	0.92
15:AP:52:GLU:O	15:AP:56:LEU:HG	1.69	0.92
5:AF:29:TYR:CZ	16:AQ:54:PRO:HB2	2.03	0.92
24:BA:988:A:H3'	49:B2:10:LYS:HZ1	1.32	0.92
24:BA:107:C:H4'	24:BA:293:U:H1'	1.49	0.92
24:BA:1264:G:H3'	24:BA:1265:A:C5'	1.98	0.92
34:BM:110:GLY:O	34:BM:114:ARG:HB2	1.67	0.92
1:AA:1278:U:H4'	1:AA:1279:A:O4'	1.69	0.92
1:AA:720:C:C5	1:AA:721:G:H2'	2.04	0.92
1:AA:827:U:H4'	10:AK:19:VAL:HG21	1.51	0.92
13:AN:84:VAL:HG21	20:AU:88:LYS:HD3	1.51	0.92
17:AR:77:ARG:NH1	17:AR:81:LEU:HB2	1.82	0.92
22:AW:73:HIS:H	22:AW:76:ALA:CB	1.82	0.92
49:B2:26:LEU:HB2	49:B2:28:LEU:HD21	1.51	0.92
52:B5:17:LYS:O	52:B5:19:ARG:HD2	1.69	0.92
24:BA:1656:C:H2'	24:BA:1657:C:C5	2.03	0.92
24:BA:2305:A:H8	24:BA:2306:C:H5''	1.32	0.92
28:BE:133:LYS:HB3	28:BE:137:HIS:NE2	1.84	0.92
24:BA:2051:A:C4'	28:BE:141:ILE:HD11	2.00	0.92
30:BG:55:LYS:HD3	30:BG:147:ASP:O	1.68	0.92
40:BS:70:VAL:HB	40:BS:74:ARG:HH11	1.30	0.92
44:BW:44:GLU:HG3	44:BW:51:VAL:CG2	1.98	0.92
45:BX:29:GLU:OE1	45:BX:32:PRO:HG2	1.69	0.92
32:BK:127:VAL:HG13	32:BK:140:LEU:C	1.90	0.92
26:BC:64:LEU:HD23	26:BC:191:ALA:HB3	1.48	0.92
1:AA:944:G:H21	1:AA:1339:A:H62	1.01	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:115:LEU:HD12	4:AE:118:LEU:HD13	1.50	0.92
5:AF:91:LEU:CD2	5:AF:98:ASN:HA	1.99	0.92
10:AK:24:THR:HG22	10:AK:61:VAL:O	1.68	0.92
15:AP:88:ARG:O	15:AP:91:ARG:HB2	1.67	0.92
19:AT:10:VAL:HG23	19:AT:55:ASP:O	1.70	0.92
22:AW:50:GLU:N	22:AW:99:LEU:HD12	1.83	0.92
24:BA:2371:G:H5'	52:B5:45:LYS:HB3	1.47	0.92
53:B6:5:TRP:CH2	53:B6:7:PRO:HB3	2.04	0.92
24:BA:1779:U:O2'	24:BA:1783:A:N6	2.00	0.92
24:BA:2041:U:H2'	24:BA:2042:A:C8	2.04	0.92
3:AB:52:G:O2'	24:BA:2470:G:O3'	1.85	0.92
24:BA:2557:G:H2'	24:BA:2558:C:C6	2.03	0.92
25:BB:62:C:H2'	25:BB:63:G:H8	1.34	0.92
30:BG:57:ALA:HA	30:BG:68:PRO:CD	1.98	0.92
35:BN:10:VAL:HG13	35:BN:11:ALA:N	1.81	0.92
38:BQ:99:LYS:N	38:BQ:99:LYS:HD2	1.83	0.92
42:BU:43:GLU:O	42:BU:44:LYS:HD3	1.68	0.92
45:BX:1:MET:N	45:BX:33:LYS:HE3	1.84	0.92
1:AA:1104:G:H4'	4:AE:111:ARG:HE	1.35	0.92
4:AE:69:LEU:O	4:AE:162:ILE:HA	1.69	0.92
6:AG:100:ARG:HH22	6:AG:137:SER:HA	1.34	0.92
10:AK:14:ARG:HH11	10:AK:14:ARG:HB3	1.32	0.92
13:AN:58:PRO:O	13:AN:61:ALA:HB3	1.68	0.92
15:AP:48:LEU:HD11	15:AP:56:LEU:HD12	1.50	0.92
19:AT:7:THR:CG2	19:AT:56:VAL:HG12	1.98	0.92
24:BA:1717:G:N2	24:BA:1718:G:N3	2.17	0.92
24:BA:1913:A:C2	24:BA:1917:U:H5	1.87	0.92
24:BA:2083:G:H2'	24:BA:2084:C:C6	2.03	0.92
24:BA:2439:A:C8	24:BA:2586:C:H4'	2.04	0.92
24:BA:1820:U:H2'	27:BD:202:LYS:HG3	1.49	0.92
29:BF:131:GLY:HA2	29:BF:138:GLU:CG	1.99	0.92
30:BG:61:ALA:CB	30:BG:67:LYS:HE2	1.98	0.92
38:BQ:45:ARG:O	38:BQ:49:ASP:CB	2.17	0.92
46:BY:176:PRO:HB2	46:BY:179:ASP:CA	1.99	0.92
32:BK:77:LEU:HD11	32:BK:140:LEU:HB3	1.51	0.92
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.04	0.92
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.34	0.92
1:AA:1433:A:N6	1:AA:1467:G:H21	1.67	0.92
1:AA:828:A:N1	1:AA:859:A:O4'	2.02	0.92
10:AK:25:ASP:HB3	10:AK:58:TYR:HB3	1.51	0.92
54:B7:30:ARG:CZ	54:B7:44:LYS:HB2	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1309:G:C2'	24:BA:1310:G:H5'	1.99	0.92
24:BA:1800:C:C6	24:BA:1800:C:H3'	2.04	0.92
24:BA:2332:U:H4'	24:BA:2336:A:N6	1.85	0.92
24:BA:2440:C:H5''	24:BA:2587:A:H4'	1.48	0.92
24:BA:2862:G:H2'	24:BA:2863:C:H6	1.32	0.92
24:BA:459:U:H3'	53:B6:40:TRP:CH2	2.05	0.92
24:BA:621:A:H2'	24:BA:622:G:H5'	1.49	0.92
24:BA:847:U:H3	24:BA:933:A:H2	1.13	0.92
27:BD:181:GLU:HB2	27:BD:268:ARG:HH21	1.33	0.92
27:BD:5:LYS:NZ	27:BD:31:LYS:HZ1	1.66	0.92
28:BE:164:ARG:O	28:BE:165:VAL:HG22	1.68	0.92
37:BP:67:ARG:HB2	37:BP:103:MET:SD	2.09	0.92
37:BP:23:GLY:H	37:BP:99:PRO:HG3	1.34	0.92
37:BP:75:THR:HG22	37:BP:77:LYS:H	1.33	0.92
37:BP:75:THR:HG23	37:BP:91:GLU:OE1	1.69	0.92
41:BT:44:ASN:HD21	42:BU:78:LYS:CG	1.83	0.92
1:AA:20:U:H5'	1:AA:572:A:N6	1.84	0.92
9:AJ:122:HIS:O	9:AJ:125:MET:HG3	1.69	0.92
9:AJ:69:VAL:CG2	9:AJ:104:LEU:HD21	1.98	0.92
1:AA:1230:C:H1'	15:AP:126:LYS:HG3	1.49	0.92
50:B3:5:ILE:HG21	50:B3:60:GLN:CD	1.89	0.92
24:BA:1491:G:H2'	24:BA:1492:G:H4'	1.48	0.92
27:BD:131:LEU:HG	27:BD:132:PRO:HD2	1.49	0.92
35:BN:25:LEU:HD22	35:BN:38:VAL:HG23	1.47	0.92
39:BR:78:LEU:HD13	39:BR:79:ALA:N	1.84	0.92
1:AA:1054:C:H2'	1:AA:1055:A:H5''	1.50	0.92
1:AA:1180:A:H2'	1:AA:1181:G:H5'	1.51	0.92
6:AG:155:LEU:HB2	6:AG:158:ILE:HG12	1.47	0.92
7:AH:94:ALA:HB1	7:AH:98:THR:HG21	1.52	0.92
8:AI:6:VAL:CG2	8:AI:8:ILE:HD11	1.99	0.92
10:AK:120:THR:O	10:AK:123:GLU:HB3	1.69	0.92
11:AL:16:ARG:HG2	11:AL:18:PHE:CE1	2.05	0.92
1:AA:529:G:H1	14:AO:49:ASN:HB3	1.35	0.92
14:AO:85:ILE:HD11	14:AO:98:TYR:CB	1.99	0.92
21:AV:62:ILE:HD11	21:AV:67:VAL:HA	1.50	0.92
24:BA:1186:G:H3'	24:BA:1187:G:C8	2.05	0.92
24:BA:1774:C:C5	24:BA:1775:U:C5	2.57	0.92
24:BA:2636:U:C4'	28:BE:79:ARG:HD3	1.99	0.92
24:BA:2754:U:H2'	24:BA:2755:C:H5''	1.51	0.92
24:BA:472:A:H2'	24:BA:473:G:C5'	1.99	0.92
28:BE:119:ARG:CZ	28:BE:155:LYS:HB3	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:76:LYS:HA	36:BO:101:VAL:HG11	1.52	0.92
39:BR:99:LYS:O	39:BR:102:ALA:HB3	1.69	0.92
39:BR:26:LEU:HD21	39:BR:37:ALA:HB1	1.51	0.92
24:BA:566:U:H5''	42:BU:82:ARG:CZ	1.99	0.92
24:BA:2261:C:P	47:BZ:17:GLN:HB2	2.09	0.92
1:AA:237:C:H5''	19:AT:25:ARG:CZ	1.99	0.92
5:AF:14:ILE:HG21	5:AF:179:ARG:HA	1.49	0.92
50:B3:13:ARG:O	50:B3:14:ILE:HG12	1.70	0.92
24:BA:1205:U:C4	24:BA:1207:C:N4	2.37	0.92
24:BA:179:G:H5'	53:B6:32:LYS:NZ	1.84	0.92
24:BA:789:A:H3'	24:BA:789:A:OP1	1.69	0.92
34:BM:97:ARG:HA	34:BM:100:GLU:HG2	1.50	0.92
35:BN:89:ASN:ND2	35:BN:91:LEU:HB2	1.85	0.92
36:BO:55:ARG:O	36:BO:56:SER:HB2	1.70	0.92
46:BY:151:HIS:HB2	46:BY:168:GLU:HG2	1.51	0.92
1:AA:994:A:N7	1:AA:1216:G:H4'	1.84	0.92
1:AA:186(D):C:H2'	1:AA:186(E):C:C6	2.05	0.92
3:AC:58:A:H2'	3:AC:61:C:H41	1.33	0.92
14:AO:59:ARG:HA	14:AO:64:TYR:O	1.68	0.92
1:AA:191:G:C4	22:AW:105:SER:HB3	2.04	0.92
24:BA:1005:C:H2'	24:BA:1006:C:H6	1.34	0.92
24:BA:2459:A:C2'	24:BA:2460:U:O4'	2.18	0.92
24:BA:637:A:C2	24:BA:651:G:H5''	2.05	0.92
27:BD:68:LYS:HB3	27:BD:70:TRP:NE1	1.84	0.92
27:BD:8:PRO:HD2	27:BD:26:LYS:O	1.69	0.92
34:BM:58:ASP:O	34:BM:60:ILE:N	2.02	0.92
36:BO:56:SER:HB3	54:B7:13:ARG:NH2	1.82	0.92
39:BR:89:ARG:HH11	39:BR:91:PRO:HA	1.34	0.92
41:BT:111:GLU:HA	41:BT:114:LYS:NZ	1.85	0.92
41:BT:49:HIS:HA	41:BT:52:ARG:CZ	1.98	0.92
24:BA:84:A:H5'	45:BX:8:LYS:HE2	1.49	0.92
46:BY:104:PHE:HZ	46:BY:120:ILE:HG22	1.32	0.92
47:BZ:68:GLU:HB3	47:BZ:80:HIS:O	1.70	0.92
5:AF:60:ALA:HB2	12:AM:92:THR:OG1	1.70	0.92
1:AA:1180:A:C2'	1:AA:1181:G:H5'	2.01	0.92
1:AA:703:G:H4'	1:AA:704:A:O5'	1.70	0.92
1:AA:96:G:H2'	1:AA:97:U:C6	2.05	0.92
5:AF:38:ARG:HH11	5:AF:38:ARG:CB	1.82	0.92
8:AI:10:LEU:H	8:AI:10:LEU:HD23	1.33	0.92
10:AK:5:PRO:O	10:AK:8:ASP:HB3	1.70	0.92
12:AM:50:ILE:CA	12:AM:60:ARG:HG3	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:60:LEU:HD13	14:AO:60:LEU:N	1.80	0.92
15:AP:52:GLU:HA	15:AP:55:ARG:NE	1.85	0.92
1:AA:979:C:N4	16:AQ:18:VAL:HB	1.85	0.92
50:B3:43:TYR:HA	50:B3:61:ARG:HH22	1.19	0.92
24:BA:1617:C:H4'	24:BA:1617:C:OP2	1.69	0.92
24:BA:2574:G:H1'	28:BE:143:ASN:HD22	1.33	0.92
24:BA:2620:C:H4'	28:BE:156:MET:CB	2.00	0.92
24:BA:2881:C:H2'	24:BA:2882:A:H8	1.35	0.92
27:BD:117:VAL:HG22	27:BD:126:GLN:NE2	1.85	0.92
27:BD:57:GLY:H	27:BD:217:ARG:HD2	1.33	0.92
37:BP:12:GLN:HE21	37:BP:13:GLN:HG2	1.33	0.92
38:BQ:103:ARG:HB2	38:BQ:108:GLY:C	1.90	0.92
42:BU:69:LYS:HG2	42:BU:70:ILE:HG13	1.52	0.92
43:BV:33:ARG:HE	43:BV:33:ARG:HA	1.35	0.92
32:BK:127:VAL:HA	32:BK:140:LEU:O	1.68	0.92
1:AA:410:G:H1'	1:AA:432:A:H61	1.33	0.91
1:AA:783:C:O2'	1:AA:784:C:H5'	1.69	0.91
1:AA:911:U:H2'	1:AA:912:C:H6	1.31	0.91
7:AH:121:LYS:HZ2	7:AH:122:GLU:N	1.67	0.91
7:AH:9:LYS:HB2	7:AH:33:VAL:HB	1.51	0.91
7:AH:43:LEU:H	7:AH:65:ASN:HD22	1.03	0.91
10:AK:70:GLN:NE2	10:AK:72:PRO:HD2	1.85	0.91
10:AK:85:ARG:HG2	10:AK:85:ARG:HH11	1.35	0.91
14:AO:83:VAL:HG23	14:AO:104:VAL:HB	1.53	0.91
19:AT:88:TYR:O	19:AT:92:ARG:HB2	1.71	0.91
22:AW:50:GLU:HG3	22:AW:54:LYS:HE3	1.51	0.91
55:B8:10:ILE:HD13	55:B8:32:HIS:HD2	1.32	0.91
24:BA:1291:C:H5''	24:BA:1536:A:H5'	1.52	0.91
24:BA:1774:C:C5	24:BA:1775:U:H5	1.89	0.91
24:BA:1790:C:H4'	27:BD:213:ARG:NH1	1.85	0.91
24:BA:1791:A:H3'	24:BA:1792:G:H8	1.33	0.91
24:BA:2027:G:H1'	24:BA:2037:G:N2	1.83	0.91
24:BA:2329:G:H1	24:BA:2386:C:N4	1.67	0.91
27:BD:133:LEU:C	27:BD:136:ILE:HG13	1.89	0.91
29:BF:158:THR:HG21	29:BF:196:LEU:N	1.84	0.91
37:BP:34:LEU:HD11	37:BP:105:GLU:HB2	1.51	0.91
37:BP:67:ARG:NH1	37:BP:103:MET:HB3	1.85	0.91
40:BS:52:ILE:HA	40:BS:66:VAL:CG1	2.01	0.91
40:BS:68:TYR:CE2	40:BS:70:VAL:HG22	2.05	0.91
40:BS:3:ARG:O	40:BS:7:ILE:HG12	1.70	0.91
42:BU:34:GLU:HA	42:BU:62:LEU:O	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2120:G:H21	26:BC:167:LYS:HZ2	1.17	0.91
30:BG:91:ARG:CB	30:BG:91:ARG:HH21	1.82	0.91
48:B1:2:ARG:O	48:B1:5:LEU:HB2	1.70	0.91
1:AA:599:C:C4'	10:AK:130:GLY:HA3	2.01	0.91
24:BA:2433:A:N6	50:B3:32:TYR:HE2	1.68	0.91
3:AB:74:C:N4	24:BA:2555:U:H2'	1.86	0.91
24:BA:68:G:H2'	24:BA:69:C:H6	1.34	0.91
24:BA:979:G:H3'	24:BA:980:A:C5'	1.99	0.91
27:BD:155:LEU:HG	27:BD:157:ARG:NE	1.85	0.91
27:BD:129:ASN:O	27:BD:193:VAL:HB	1.69	0.91
29:BF:103:LYS:HB3	29:BF:107:LYS:HE3	1.52	0.91
35:BN:112:MET:O	35:BN:115:VAL:HB	1.71	0.91
39:BR:3:ARG:CG	39:BR:4:LEU:H	1.80	0.91
41:BT:83:LEU:HD12	41:BT:83:LEU:H	1.34	0.91
25:BB:75:G:N3	46:BY:27:VAL:HG21	1.84	0.91
46:BY:4:ARG:HE	46:BY:44:PHE:HZ	0.94	0.91
46:BY:48:PHE:CZ	46:BY:86:VAL:HG11	2.05	0.91
1:AA:356:A:O3'	1:AA:367:U:H2'	1.70	0.91
4:AE:118:LEU:HD21	4:AE:142:LEU:HB2	1.52	0.91
7:AH:70:PRO:HB2	7:AH:143:ARG:HA	1.52	0.91
11:AL:55:ALA:HB3	11:AL:58:HIS:HE1	1.31	0.91
52:B5:7:ILE:O	52:B5:9:LEU:N	2.04	0.91
24:BA:1142:U:H3'	24:BA:1142(A):A:N7	1.86	0.91
24:BA:1281:G:H2'	24:BA:1282:U:C6	2.04	0.91
24:BA:1448:G:O3'	24:BA:1543:A:N1	2.02	0.91
24:BA:1559:G:H1	24:BA:1560:G:H4'	1.27	0.91
24:BA:1762:A:H8	24:BA:1762:A:H3'	1.31	0.91
24:BA:2075:U:H2'	24:BA:2076:U:C5'	2.00	0.91
24:BA:2543:G:C2	24:BA:2765:A:C2	2.57	0.91
24:BA:653:A:N6	24:BA:655:A:H1'	1.84	0.91
24:BA:826:U:H5''	24:BA:2428:G:O3'	1.69	0.91
30:BG:47:LYS:HB2	30:BG:53:LEU:HD11	1.52	0.91
41:BT:46:ALA:O	41:BT:50:ARG:HD3	1.70	0.91
42:BU:62:LEU:HD12	42:BU:96:ILE:CB	1.98	0.91
46:BY:27:VAL:CG2	46:BY:85:HIS:NE2	2.26	0.91
26:BC:120:MET:HE1	26:BC:138:PRO:HB2	1.53	0.91
1:AA:628:G:H2'	1:AA:629:G:C8	2.06	0.91
7:AH:71:LEU:HD11	7:AH:74:GLY:HA2	1.52	0.91
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CD2	1.99	0.91
1:AA:942:G:H21	11:AL:124:GLN:HE22	1.12	0.91
14:AO:58:VAL:O	14:AO:65:GLU:HA	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:20:VAL:HA	48:B1:55:LEU:HD23	1.52	0.91
24:BA:1222:C:H42	24:BA:1227:A:H62	1.17	0.91
24:BA:2469:A:H8	24:BA:2469:A:H5'	1.34	0.91
24:BA:2615:U:C1'	51:B4:7:PRO:HB3	2.01	0.91
24:BA:2848:G:C8	40:BS:99:LEU:HD11	2.06	0.91
24:BA:917:A:C2'	24:BA:918:A:H5''	2.01	0.91
28:BE:105:THR:CB	28:BE:166:THR:HB	1.99	0.91
28:BE:66:HIS:CD2	28:BE:71:GLY:H	1.89	0.91
28:BE:80:GLU:HG2	28:BE:83:ASP:OD2	1.70	0.91
29:BF:122:LYS:HZ3	29:BF:122:LYS:HA	1.35	0.91
29:BF:197:ASP:CA	29:BF:200:GLU:HG3	1.98	0.91
31:BH:38:SER:H	31:BH:41:MET:CE	1.83	0.91
24:BA:1058:G:H21	33:BL:116:ASN:ND2	1.66	0.91
36:BO:72:PRO:CB	36:BO:111:ARG:HB3	2.00	0.91
37:BP:6:ARG:HB2	37:BP:44:ALA:CB	2.00	0.91
38:BQ:86:ARG:HB3	38:BQ:86:ARG:NH1	1.85	0.91
40:BS:111:ARG:O	40:BS:114:LEU:HB2	1.70	0.91
41:BT:88:ILE:N	42:BU:52:VAL:HG22	1.86	0.91
24:BA:2122:U:C2'	24:BA:2123:G:H5''	1.99	0.91
26:BC:77:ILE:HG21	26:BC:123:VAL:HG22	1.50	0.91
1:AA:600:C:OP1	10:AK:97:VAL:N	2.04	0.91
1:AA:777:A:H2'	1:AA:778:G:H8	1.36	0.91
1:AA:1191:A:OP1	5:AF:4:LYS:HG2	1.69	0.91
5:AF:33:LEU:CD1	16:AQ:54:PRO:HD2	1.99	0.91
50:B3:66:SER:O	50:B3:69:LYS:HB2	1.70	0.91
24:BA:1138:G:H21	24:BA:1139:G:H1'	1.33	0.91
24:BA:484:C:H2'	24:BA:485:C:H6	1.29	0.91
24:BA:510:C:P	24:BA:512:G:H1	1.93	0.91
31:BH:8:PRO:HB3	31:BH:51:ARG:HH12	1.36	0.91
32:BK:21:VAL:O	32:BK:25:TYR:HB2	1.70	0.91
34:BM:30:ILE:O	34:BM:33:LEU:HB3	1.71	0.91
36:BO:96:THR:HG21	36:BO:112:LEU:HD13	1.53	0.91
37:BP:59:ARG:HH22	46:BY:177:PRO:HB3	1.30	0.91
39:BR:62:LYS:HB3	39:BR:65:VAL:H	1.35	0.91
35:BN:122:LEU:HA	40:BS:74:ARG:NH1	1.85	0.91
41:BT:89:GLU:CG	42:BU:52:VAL:HG23	2.01	0.91
42:BU:62:LEU:HD11	42:BU:98:GLU:HG2	1.52	0.91
26:BC:10:LEU:HD21	26:BC:220:PRO:HD3	1.51	0.91
1:AA:363:A:OP2	14:AO:34:ARG:HB3	1.70	0.91
1:AA:828:A:H2'	1:AA:829:G:O4'	1.71	0.91
1:AA:975:A:O2'	1:AA:1358:U:H1'	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:109:ILE:HD13	7:AH:135:THR:HB	1.53	0.91
12:AM:24:VAL:HG22	12:AM:72:VAL:HG13	1.52	0.91
18:AS:19:ILE:HB	18:AS:37:GLY:O	1.69	0.91
22:AW:73:HIS:H	22:AW:76:ALA:HB3	1.36	0.91
24:BA:1646:C:C3'	24:BA:1647:G:H5'	2.01	0.91
24:BA:2341:G:H2'	24:BA:2342:C:C6	2.06	0.91
24:BA:2563:U:H4'	35:BN:28:SER:OG	1.69	0.91
24:BA:920:G:O2'	24:BA:921:G:H5'	1.70	0.91
27:BD:211:ARG:O	27:BD:215:LEU:HD12	1.70	0.91
30:BG:49:ASP:HA	30:BG:53:LEU:CD2	2.00	0.91
31:BH:94:TYR:HA	31:BH:106:THR:O	1.70	0.91
39:BR:62:LYS:HD2	39:BR:64:GLU:CB	2.01	0.91
42:BU:5:VAL:H	42:BU:12:TYR:HD2	0.96	0.91
45:BX:47:LYS:HB2	45:BX:49:VAL:HG22	1.51	0.91
1:AA:509:A:H2'	1:AA:510:A:C8	2.05	0.91
5:AF:67:THR:HG22	5:AF:104:GLN:HG2	1.49	0.91
6:AG:121:VAL:HA	6:AG:126:ILE:HD11	1.52	0.91
7:AH:48:ALA:HB1	7:AH:53:LEU:HB3	1.51	0.91
9:AJ:111:ARG:NH1	9:AJ:112:PRO:HD2	1.85	0.91
10:AK:46:LYS:HZ2	10:AK:64:LYS:HA	1.34	0.91
24:BA:789:A:H4'	24:BA:790:C:OP1	1.69	0.91
27:BD:181:GLU:HA	27:BD:270:ILE:HD12	1.52	0.91
27:BD:183:ARG:CG	27:BD:268:ARG:HB2	2.01	0.91
31:BH:35:VAL:HG21	31:BH:72:ILE:HG23	1.52	0.91
34:BM:43:THR:HB	34:BM:44:PRO:HD2	0.92	0.91
34:BM:34:LEU:C	34:BM:49:GLY:HA2	1.90	0.91
35:BN:77:ILE:CG2	40:BS:65:LYS:HE2	2.00	0.91
45:BX:74:PRO:HB3	45:BX:101:LYS:C	1.90	0.91
45:BX:42:VAL:N	45:BX:61:ILE:HB	1.83	0.91
2:A1:52:U:H4'	6:AG:50:ARG:HA	1.50	0.91
1:AA:776:G:H5''	1:AA:777:A:OP1	1.70	0.91
3:AB:38:A:H2'	3:AB:39:U:C5	2.06	0.91
4:AE:82:ARG:HD2	4:AE:92:TYR:OH	1.70	0.91
6:AG:94:LEU:HA	6:AG:97:LEU:CD1	2.00	0.91
1:AA:974:A:OP2	16:AQ:31:ARG:HG2	1.70	0.91
17:AR:62:GLN:HA	17:AR:65:ARG:HH22	1.31	0.91
24:BA:2344:U:C5'	52:B5:38:LYS:HG3	2.00	0.91
24:BA:1061:U:H4'	24:BA:1070:A:H4'	1.52	0.91
24:BA:1080:C:H1'	33:BL:126:MET:HA	1.52	0.91
24:BA:739:G:O3'	24:BA:1784:A:N1	2.04	0.91
24:BA:1864:U:H2'	24:BA:1869:G:H5'	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1934:C:H5'	24:BA:1974:C:H4'	1.50	0.91
24:BA:2764:A:OP1	24:BA:2764:A:H4'	1.68	0.91
27:BD:37:LEU:HD11	27:BD:63:ARG:C	1.90	0.91
27:BD:61:LEU:CB	27:BD:86:PRO:HG2	2.00	0.91
28:BE:72:VAL:HG23	28:BE:74:PRO:HD3	1.53	0.91
28:BE:4:ILE:HD11	28:BE:76:ARG:CZ	2.01	0.91
29:BF:11:VAL:HG13	29:BF:127:GLU:HB2	1.49	0.91
29:BF:157:VAL:HG22	29:BF:194:MET:HB3	1.52	0.91
34:BM:78:TYR:HB3	34:BM:79:PRO:HD2	1.53	0.91
41:BT:112:ARG:HH12	42:BU:50:PRO:CG	1.83	0.91
46:BY:110:GLY:O	46:BY:113:ALA:HB3	1.71	0.91
24:BA:2175:C:H1'	26:BC:218:MET:HA	1.53	0.91
12:AM:79:ARG:HD3	12:AM:79:ARG:C	1.91	0.91
23:AX:14:TRP:HZ3	23:AX:15:ARG:CZ	1.83	0.91
52:B5:32:ASN:CG	52:B5:33:LYS:H	1.69	0.91
54:B7:56:GLU:OE2	54:B7:56:GLU:N	2.03	0.91
24:BA:1614:A:N3	24:BA:1614:A:H3'	1.85	0.91
24:BA:1697:G:C8	24:BA:1698:A:H5''	2.06	0.91
24:BA:2408:U:O5'	24:BA:2408:U:H6	1.52	0.91
24:BA:570:G:H1	24:BA:2498:C:H4'	1.34	0.91
28:BE:33:VAL:HG22	28:BE:47:VAL:O	1.70	0.91
28:BE:50:GLY:H	28:BE:76:ARG:HG3	1.34	0.91
35:BN:15:GLY:CA	35:BN:52:VAL:HG21	2.01	0.91
39:BR:57:LYS:HZ2	39:BR:65:VAL:HA	1.35	0.91
1:AA:191(C):G:H2'	1:AA:191(D):U:C6	2.06	0.91
1:AA:911:U:H2'	1:AA:912:C:C6	2.06	0.91
8:AI:23:LYS:HA	8:AI:26:ILE:HD12	1.53	0.91
18:AS:23:ASP:OD2	18:AS:33:ILE:HD11	1.71	0.91
24:BA:1789:A:OP1	27:BD:222:ARG:HG2	1.71	0.91
24:BA:2581:G:H1	24:BA:2610:C:C2'	1.83	0.91
24:BA:390:A:H5''	24:BA:391:G:OP1	1.70	0.91
24:BA:716:A:H2'	24:BA:717:G:H5'	1.50	0.91
24:BA:821:A:H2'	24:BA:946:G:C8	2.06	0.91
27:BD:246:PRO:HD2	27:BD:250:TRP:CB	2.01	0.91
27:BD:9:TYR:HH	27:BD:91:ARG:HH21	1.17	0.91
27:BD:9:TYR:HH	27:BD:91:ARG:NH2	1.70	0.91
24:BA:2571:C:H1'	28:BE:146:THR:HG23	1.51	0.91
29:BF:74:ARG:NH1	29:BF:75:HIS:HA	1.86	0.91
32:BK:32:PRO:HG2	32:BK:33:ARG:H	1.35	0.91
34:BM:23:LEU:HD12	34:BM:63:THR:CG2	2.01	0.91
34:BM:67:LEU:H	34:BM:87:LEU:HD21	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:10:VAL:H	35:BN:17:ARG:HG2	1.36	0.91
36:BO:93:GLY:HA2	36:BO:112:LEU:CD1	2.01	0.91
38:BQ:57:ARG:HE	38:BQ:62:ALA:HB2	1.35	0.91
39:BR:69:VAL:O	39:BR:73:LEU:HD13	1.69	0.91
1:AA:1200:C:H3'	1:AA:1201:A:H5'	1.50	0.90
1:AA:1403:C:H1'	1:AA:1500:A:H61	1.31	0.90
6:AG:100:ARG:NH2	6:AG:137:SER:HA	1.86	0.90
9:AJ:98:SER:O	9:AJ:101:LEU:HB3	1.71	0.90
15:AP:22:ILE:HB	15:AP:25:ILE:CD1	2.01	0.90
22:AW:13:LEU:HB2	22:AW:17:ARG:HH21	1.33	0.90
24:BA:1325:G:H21	43:BV:86:LEU:HD13	1.35	0.90
24:BA:1543:A:H3'	24:BA:1544:C:C4'	1.99	0.90
24:BA:1856:G:H2'	24:BA:1857:G:H5'	1.51	0.90
24:BA:1935:G:H1	24:BA:1962:C:H2'	1.36	0.90
24:BA:2326:C:N3	24:BA:2389:G:N1	2.19	0.90
24:BA:468:G:H2'	24:BA:469:G:O4'	1.71	0.90
24:BA:728:G:C2	24:BA:762:U:H3'	2.06	0.90
24:BA:784:A:N6	24:BA:792:G:N3	2.17	0.90
27:BD:5:LYS:HB3	27:BD:82:ILE:HB	1.52	0.90
29:BF:164:ARG:HB2	29:BF:177:ALA:CB	2.01	0.90
30:BG:44:GLY:O	30:BG:47:LYS:HB3	1.71	0.90
35:BN:64:ARG:NH1	35:BN:77:ILE:HB	1.85	0.90
24:BA:2117:A:N6	24:BA:2171:A:N1	2.19	0.90
1:AA:43:C:H5''	18:AS:12:LYS:CB	2.01	0.90
1:AA:858:G:H22	1:AA:869:G:H3'	1.32	0.90
3:AD:34:G:H3'	3:AD:35:A:H5''	1.52	0.90
5:AF:108:ASN:HD22	5:AF:111:LEU:HD13	1.36	0.90
49:B2:6:VAL:O	49:B2:35:ARG:HG2	1.68	0.90
49:B2:3:ARG:HH22	49:B2:59:VAL:HG11	1.35	0.90
24:BA:1138:G:N2	24:BA:1139:G:H1'	1.86	0.90
24:BA:1475:G:N2	24:BA:1477:A:H62	1.70	0.90
24:BA:1667:G:N3	24:BA:1667:G:H2'	1.87	0.90
24:BA:2665:A:H3'	24:BA:2665:A:C8	2.04	0.90
24:BA:2731:G:H4'	28:BE:168:MET:SD	2.12	0.90
24:BA:549:G:H2'	24:BA:550:G:C8	2.06	0.90
28:BE:107:THR:O	28:BE:190:GLY:HA3	1.71	0.90
33:BL:23:VAL:HG13	33:BL:27:LEU:CD1	2.00	0.90
33:BL:18:THR:HA	33:BL:38:VAL:HG21	1.49	0.90
34:BM:107:LEU:HD21	34:BM:113:GLY:HA3	1.52	0.90
34:BM:3:THR:O	34:BM:4:TYR:HB2	1.69	0.90
34:BM:89:LYS:HE2	34:BM:89:LYS:N	1.85	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:71:ASP:OD2	37:BP:95:ALA:HA	1.71	0.90
41:BT:102:GLU:O	41:BT:105:VAL:HG12	1.70	0.90
42:BU:57:VAL:HG12	42:BU:58:VAL:H	1.33	0.90
46:BY:152:ALA:HA	46:BY:155:LEU:CD1	2.01	0.90
1:AA:1408:A:C2	1:AA:1495:U:C5	2.58	0.90
1:AA:272:C:H2'	1:AA:273:A:H8	1.36	0.90
1:AA:376:G:H2'	1:AA:377:G:H8	1.33	0.90
1:AA:384:G:H2'	1:AA:385:C:H6	1.34	0.90
1:AA:692:U:O2	1:AA:694:A:H3'	1.72	0.90
4:AE:160:ASP:HB3	4:AE:182:ILE:HG21	1.50	0.90
4:AE:48:MET:SD	4:AE:48:MET:N	2.44	0.90
9:AJ:69:VAL:HG22	9:AJ:135:VAL:CG2	2.00	0.90
10:AK:83:ILE:HA	10:AK:137:VAL:HG22	1.54	0.90
13:AN:82:VAL:HB	13:AN:108:ILE:HG12	1.53	0.90
50:B3:21:VAL:HG12	50:B3:22:ILE:H	1.37	0.90
24:BA:1044:G:N2	24:BA:1111:A:H4'	1.86	0.90
24:BA:1186:G:C8	24:BA:1187:G:C8	2.58	0.90
24:BA:1270:C:H4'	24:BA:1271:G:H5'	1.50	0.90
24:BA:1773:A:C6	24:BA:1829:A:H1'	2.05	0.90
24:BA:2076:U:H4'	24:BA:2077:A:OP1	1.70	0.90
24:BA:20:C:O2'	24:BA:21:A:H5'	1.70	0.90
24:BA:2305:A:H2'	24:BA:2306:C:H5''	1.51	0.90
24:BA:2320:A:H5'	24:BA:2321:G:C5	2.07	0.90
24:BA:234:C:H42	24:BA:430:G:N2	1.69	0.90
24:BA:323:G:H5'	24:BA:324:A:OP1	1.71	0.90
24:BA:365:C:H2'	24:BA:366:C:C6	2.06	0.90
27:BD:206:LEU:N	27:BD:206:LEU:HD13	1.87	0.90
27:BD:258:LYS:HA	27:BD:261:LYS:NZ	1.85	0.90
27:BD:95:LEU:HD22	27:BD:96:HIS:N	1.86	0.90
28:BE:91:VAL:HG22	28:BE:93:VAL:H	1.36	0.90
31:BH:115:VAL:HG13	31:BH:116:GLU:H	1.35	0.90
35:BN:97:ARG:HB2	35:BN:97:ARG:HH21	1.11	0.90
38:BQ:33:ARG:HB2	38:BQ:113:LEU:HD11	1.51	0.90
44:BW:7:VAL:HG11	48:B1:31:ARG:HH22	1.37	0.90
1:AA:1433:A:H62	1:AA:1467:G:N2	1.67	0.90
4:AE:77:ALA:HA	4:AE:208:ILE:HD11	1.50	0.90
6:AG:59:ARG:HH11	6:AG:59:ARG:HA	1.35	0.90
14:AO:85:ILE:HG13	14:AO:87:GLY:H	1.35	0.90
20:AU:18:ARG:HH21	20:AU:21:LYS:HB2	1.36	0.90
24:BA:530:G:N1	24:BA:2022:U:OP1	2.03	0.90
24:BA:46:C:OP2	24:BA:215:G:H3'	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2244:U:H1'	24:BA:2434:A:C5	2.07	0.90
24:BA:270(I):G:C2	24:BA:270(J):G:H1'	2.07	0.90
24:BA:640:C:C2'	24:BA:641:C:H5''	2.01	0.90
24:BA:665:C:H2'	24:BA:666:G:H8	1.35	0.90
27:BD:11:PRO:HB2	27:BD:24:ILE:HB	1.53	0.90
28:BE:198:VAL:HG12	28:BE:200:GLU:OE2	1.71	0.90
24:BA:2305:A:H2'	30:BG:154:GLY:HA2	1.52	0.90
35:BN:64:ARG:HH12	35:BN:77:ILE:CB	1.84	0.90
40:BS:24:PRO:HG2	40:BS:25:GLY:H	1.32	0.90
44:BW:62:LYS:O	44:BW:63:LYS:HB2	1.69	0.90
45:BX:38:ILE:HA	45:BX:62:GLU:HG3	1.51	0.90
46:BY:53:ILE:HG12	46:BY:58:VAL:HG21	1.51	0.90
47:BZ:46:LYS:HG2	47:BZ:77:ARG:O	1.72	0.90
32:BK:92:VAL:CB	32:BK:120:ILE:O	2.17	0.90
26:BC:51:PRO:HB3	26:BC:165:ASN:HD21	1.35	0.90
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.04	0.90
4:AE:75:LYS:HZ3	4:AE:75:LYS:HA	1.36	0.90
1:AA:275:G:H5'	19:AT:14:LYS:NZ	1.86	0.90
20:AU:74:ARG:HG3	20:AU:79:LEU:HD22	1.52	0.90
48:B1:27:LEU:CA	48:B1:30:LEU:HG	2.01	0.90
52:B5:19:ARG:NH1	52:B5:19:ARG:HG2	1.80	0.90
24:BA:1157:G:H3'	24:BA:1157:G:OP2	1.71	0.90
24:BA:1624:G:C2	24:BA:1625:C:N4	2.39	0.90
24:BA:1820:U:C2	27:BD:202:LYS:HG2	2.07	0.90
24:BA:1863:G:H2'	24:BA:1864:U:C6	2.07	0.90
24:BA:2028:U:H2'	24:BA:2029:G:C8	2.07	0.90
24:BA:2314:C:H2'	24:BA:2315:G:H8	1.37	0.90
24:BA:2329:G:N2	24:BA:2386:C:H42	1.69	0.90
24:BA:2361:A:H3'	24:BA:2362:G:H8	1.36	0.90
24:BA:2524:G:H5'	24:BA:2764:A:O2'	1.69	0.90
24:BA:818:G:O2'	24:BA:819:A:H5''	1.71	0.90
27:BD:181:GLU:HB3	27:BD:268:ARG:HE	1.37	0.90
24:BA:691:C:H1'	27:BD:45:ASN:HD21	1.37	0.90
30:BG:5:VAL:HG12	30:BG:9:ARG:NH2	1.87	0.90
30:BG:57:ALA:HA	30:BG:68:PRO:N	1.87	0.90
39:BR:9:ARG:HD3	39:BR:12:PHE:HE2	1.35	0.90
42:BU:40:LEU:CA	42:BU:54:GLY:HA3	2.00	0.90
43:BV:76:VAL:HG23	43:BV:103:ILE:HA	1.53	0.90
3:AB:71:G:N2	3:AB:72:C:H1'	1.86	0.90
1:AA:508:C:HO2'	1:AA:509:A:H8	0.94	0.90
1:AA:857:C:H2'	1:AA:858:G:O4'	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:961:U:O2'	1:AA:962:C:H5'	1.70	0.90
4:AE:102:LEU:HD22	4:AE:176:GLU:HB3	1.51	0.90
4:AE:118:LEU:HD13	4:AE:142:LEU:HD12	1.52	0.90
1:AA:1348:U:H4'	11:AL:120:ARG:NH1	1.85	0.90
5:AF:30:ARG:HB3	16:AQ:36:PHE:O	1.71	0.90
22:AW:12:ALA:N	22:AW:13:LEU:HD12	1.86	0.90
48:B1:44:LYS:HG3	48:B1:48:LEU:HD22	1.52	0.90
49:B2:41:PRO:HA	49:B2:44:ARG:HH11	1.35	0.90
55:B8:23:VAL:HB	55:B8:36:GLN:CG	2.01	0.90
55:B8:7:VAL:HG11	55:B8:36:GLN:HE22	1.33	0.90
24:BA:64:A:N3	44:BW:66:LEU:HD22	1.87	0.90
30:BG:76:SER:O	30:BG:83:ARG:HG3	1.71	0.90
37:BP:43:THR:HA	37:BP:94:VAL:HG11	1.52	0.90
41:BT:57:PHE:HA	41:BT:60:LEU:CG	2.00	0.90
42:BU:11:GLN:NE2	42:BU:24:LYS:HZ3	1.70	0.90
1:AA:449:C:N3	1:AA:450:G:H1'	1.86	0.90
1:AA:697:U:H2'	1:AA:698:G:C8	2.06	0.90
4:AE:102:LEU:HB2	4:AE:176:GLU:OE1	1.69	0.90
5:AF:134:ILE:O	5:AF:138:VAL:HG23	1.71	0.90
8:AI:8:ILE:CG2	8:AI:88:VAL:HA	2.00	0.90
10:AK:104:ARG:HH11	10:AK:104:ARG:HG2	1.36	0.90
11:AL:55:ALA:CB	11:AL:58:HIS:HE1	1.79	0.90
21:AV:45:VAL:HG22	21:AV:67:VAL:HG21	1.53	0.90
24:BA:2348:U:C3'	54:B7:42:ARG:HH22	1.83	0.90
24:BA:1071:G:H2'	24:BA:1072:C:C5'	2.01	0.90
24:BA:1423:G:H2'	24:BA:1424:G:H8	1.35	0.90
24:BA:1657:C:H2'	24:BA:1658:C:H6	1.37	0.90
24:BA:1764:G:O2'	24:BA:1765:C:H5'	1.70	0.90
24:BA:2618:G:N3	28:BE:150:VAL:HG11	1.86	0.90
24:BA:265:A:H8	24:BA:265:A:C3'	1.85	0.90
24:BA:64:A:O2'	24:BA:65:C:H5'	1.72	0.90
24:BA:961:C:N4	24:BA:2031:A:N3	2.19	0.90
25:BB:101:A:H2'	25:BB:102:G:C8	2.04	0.90
24:BA:1996:C:O2'	28:BE:123:ALA:HB3	1.72	0.90
31:BH:7:LEU:CB	31:BH:52:VAL:HG13	2.02	0.90
34:BM:34:LEU:HA	34:BM:49:GLY:O	1.71	0.90
37:BP:134:ARG:NH2	37:BP:137:TYR:HD1	1.69	0.90
42:BU:17:GLY:HA3	42:BU:19:LYS:HZ2	1.30	0.90
24:BA:64:A:O2'	44:BW:71:GLY:HA3	1.72	0.90
26:BC:116:THR:HA	26:BC:146:GLY:O	1.72	0.90
1:AA:1198:G:H2'	1:AA:1199:U:O4'	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:139:LYS:HG3	4:AE:140:HIS:N	1.87	0.90
7:AH:23:GLY:HA3	7:AH:25:ARG:NH1	1.86	0.90
8:AI:76:ALA:HB3	8:AI:80:ARG:HH22	1.35	0.90
9:AJ:111:ARG:HB2	9:AJ:119:ARG:HG2	1.51	0.90
15:AP:67:GLU:CG	15:AP:68:GLY:H	1.85	0.90
15:AP:7:VAL:HG13	30:BG:114:ILE:CD1	2.00	0.90
17:AR:75:PRO:HA	17:AR:78:TYR:HB3	1.53	0.90
53:B6:34:ARG:NH2	53:B6:42:LEU:HA	1.87	0.90
54:B7:55:ALA:HA	54:B7:58:ILE:HD11	1.54	0.90
24:BA:1819:A:H1'	24:BA:1821:A:C2	2.07	0.90
24:BA:2059:A:N1	24:BA:2503:A:N7	2.19	0.90
24:BA:30:G:H2'	24:BA:31:C:O4'	1.72	0.90
27:BD:106:ILE:HD12	27:BD:192:THR:HG21	1.52	0.90
28:BE:33:VAL:HG13	28:BE:48:GLN:HA	1.54	0.90
29:BF:33:LEU:O	29:BF:36:VAL:HG12	1.71	0.90
44:BW:48:LYS:O	44:BW:88:LYS:HG3	1.69	0.90
47:BZ:37:LEU:HG	47:BZ:59:LEU:O	1.72	0.90
26:BC:97:GLU:HG2	26:BC:122:ALA:HB3	1.54	0.90
26:BC:76:ALA:HB2	26:BC:153:ILE:CD1	2.01	0.90
2:A1:6:U:H2'	2:A1:7:U:H5	1.33	0.90
1:AA:1321:C:H4'	15:AP:87:TYR:OH	1.72	0.90
1:AA:707:C:O2'	1:AA:708:C:H5'	1.72	0.90
4:AE:80:ILE:HD12	4:AE:208:ILE:HG12	1.53	0.90
8:AI:26:ILE:O	8:AI:30:LEU:HG	1.72	0.90
9:AJ:50:ILE:O	9:AJ:54:THR:HG23	1.70	0.90
17:AR:36:ILE:HD11	17:AR:60:VAL:HG13	1.52	0.90
24:BA:2056:G:N2	51:B4:4:HIS:CD2	2.40	0.90
54:B7:8:LYS:HD3	54:B7:11:LYS:NZ	1.86	0.90
24:BA:1180:C:OP2	24:BA:1180:C:H3'	1.71	0.90
24:BA:1470:G:H21	24:BA:1522:G:H1	0.92	0.90
24:BA:1788:C:C4	24:BA:1789:A:C8	2.60	0.90
24:BA:2553:G:N2	24:BA:2554:U:C1'	2.35	0.90
27:BD:89:SER:OG	27:BD:158:ALA:HB1	1.71	0.90
24:BA:2786:U:O2	28:BE:61:ARG:HG3	1.72	0.90
29:BF:131:GLY:HA2	29:BF:138:GLU:CB	2.02	0.90
30:BG:111:LEU:HB3	30:BG:112:PRO:CD	2.02	0.90
44:BW:92:LEU:H	44:BW:92:LEU:HD12	1.34	0.90
46:BY:175:VAL:HG22	46:BY:176:PRO:HD2	1.54	0.90
1:AA:1048:G:H5''	16:AQ:3:ARG:NH1	1.87	0.90
1:AA:1204:A:H2	5:AF:195:VAL:HG21	1.32	0.90
4:AE:82:ARG:N	4:AE:94:ASN:HD21	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:125:HIS:HB3	6:AG:152:SER:HB2	1.52	0.90
7:AH:51:VAL:O	7:AH:55:VAL:HG23	1.71	0.90
9:AJ:125:MET:HG3	9:AJ:126:ASP:H	1.35	0.90
21:AV:20:LEU:O	21:AV:22:LEU:N	2.05	0.90
55:B8:23:VAL:HB	55:B8:36:GLN:HG2	1.54	0.90
24:BA:1375:C:H2'	24:BA:1376:C:H6	1.36	0.90
24:BA:2266:A:H5'	24:BA:2267:A:N3	1.85	0.90
24:BA:2286:A:H2	52:B5:27:LYS:CB	1.84	0.90
24:BA:532:A:OP1	24:BA:2021:C:N4	2.04	0.90
27:BD:133:LEU:O	27:BD:136:ILE:HG13	1.72	0.90
41:BT:114:LYS:HG2	41:BT:115:ALA:N	1.86	0.90
41:BT:85:LYS:HD3	41:BT:116:ALA:O	1.72	0.90
46:BY:96:VAL:HA	46:BY:128:VAL:HG13	1.52	0.90
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.34	0.89
1:AA:790:A:N6	1:AA:791:G:C2	2.40	0.89
4:AE:95:GLN:HG3	4:AE:148:TYR:CB	2.02	0.89
24:BA:2433:A:H62	50:B3:32:TYR:HE2	0.95	0.89
50:B3:5:ILE:HG22	50:B3:7:PRO:CD	2.02	0.89
24:BA:976:C:C5'	24:BA:1156:A:H62	1.85	0.89
24:BA:1291:C:H5'	24:BA:1535:U:O2'	1.71	0.89
24:BA:1775:U:O2'	24:BA:1776:G:H5'	1.72	0.89
24:BA:1824:G:H2'	24:BA:1825:A:O4'	1.72	0.89
24:BA:1903:G:H2'	24:BA:1904:G:H8	1.34	0.89
24:BA:198:C:O2'	24:BA:199:A:H8	1.54	0.89
24:BA:2225:A:H5'	24:BA:2226:C:O4'	1.70	0.89
24:BA:2690:C:H6	24:BA:2690:C:H3'	1.37	0.89
24:BA:269:U:H3	24:BA:270:A:H62	1.20	0.89
24:BA:2700:C:H2'	24:BA:2701:C:H5''	1.51	0.89
24:BA:621:A:N6	24:BA:622:G:N3	2.19	0.89
24:BA:672:C:H3'	36:BO:38:GLN:HE22	1.35	0.89
25:BB:51:G:H2'	25:BB:52:A:O5'	1.72	0.89
27:BD:177:LEU:HD11	27:BD:268:ARG:NH2	1.87	0.89
27:BD:37:LEU:HD11	27:BD:63:ARG:HA	1.50	0.89
24:BA:2636:U:H4'	28:BE:79:ARG:HH21	1.36	0.89
30:BG:58:GLN:O	30:BG:61:ALA:HB3	1.71	0.89
30:BG:57:ALA:HA	30:BG:68:PRO:HD2	1.54	0.89
30:BG:75:LYS:HB3	30:BG:84:LYS:H	1.35	0.89
34:BM:16:ILE:HB	34:BM:54:VAL:HG23	1.50	0.89
41:BT:97:ASP:C	41:BT:101:ARG:HE	1.75	0.89
24:BA:1154:G:OP1	41:BT:62:ILE:HD11	1.70	0.89
26:BC:38:ASP:OD2	26:BC:178:ALA:HB3	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:62:VAL:HB	26:BC:195:ALA:HB3	1.53	0.89
33:BL:14:ALA:HB3	33:BL:49:GLY:HA2	1.53	0.89
1:AA:1253:G:N1	1:AA:1285:A:N6	2.17	0.89
4:AE:130:ARG:HB3	4:AE:131:PRO:HD2	1.53	0.89
6:AG:191:ARG:HD3	6:AG:192:GLU:N	1.86	0.89
10:AK:32:LYS:HG2	10:AK:33:GLU:H	1.37	0.89
12:AM:68:HIS:HB3	12:AM:70:ARG:HH21	1.35	0.89
14:AO:84:LEU:CB	14:AO:104:VAL:HG11	2.02	0.89
14:AO:54:LYS:HB3	14:AO:70:ILE:HB	1.54	0.89
20:AU:74:ARG:HA	20:AU:79:LEU:CD1	2.01	0.89
48:B1:23:LYS:O	48:B1:26:GLU:HB3	1.72	0.89
48:B1:52:ILE:O	48:B1:56:LEU:HD22	1.72	0.89
24:BA:1237:A:O2'	24:BA:1238:G:O4'	1.89	0.89
24:BA:1913:A:H1'	24:BA:1918:A:N6	1.87	0.89
24:BA:2556:C:H2'	24:BA:2557:G:O4'	1.71	0.89
24:BA:2051:A:H5''	24:BA:2578:G:H5''	1.52	0.89
24:BA:2749:A:H4'	31:BH:62:LYS:HG3	1.53	0.89
24:BA:574:C:O2'	24:BA:575:A:OP2	1.91	0.89
29:BF:41:LEU:HB2	29:BF:44:ARG:HH11	1.35	0.89
33:BL:13:PRO:HB2	33:BL:16:LYS:HD3	1.54	0.89
37:BP:27:VAL:HG22	37:BP:28:ALA:N	1.82	0.89
41:BT:89:GLU:HB3	42:BU:51:VAL:C	1.93	0.89
42:BU:68:LYS:HG2	42:BU:95:LEU:HD21	1.52	0.89
45:BX:2:ARG:HD2	45:BX:3:VAL:N	1.86	0.89
32:BK:87:LYS:CA	32:BK:121:LYS:O	2.20	0.89
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.06	0.89
4:AE:61:LEU:HD11	4:AE:68:ILE:CD1	2.02	0.89
8:AI:33:TYR:CG	8:AI:75:LEU:HG	2.06	0.89
15:AP:55:ARG:NH2	15:AP:56:LEU:HD21	1.87	0.89
17:AR:34:LEU:HG	17:AR:35:ARG:H	1.37	0.89
50:B3:52:THR:HG22	50:B3:53:GLU:N	1.84	0.89
52:B5:19:ARG:C	52:B5:43:CYS:HG	1.74	0.89
24:BA:1024:G:N2	24:BA:1139:G:N1	2.20	0.89
24:BA:1265:A:H1'	24:BA:1267:U:C4	2.08	0.89
24:BA:1841:U:H2'	24:BA:1842:G:C8	2.06	0.89
24:BA:2637:U:C5'	28:BE:81:ILE:HD11	2.03	0.89
27:BD:120:GLY:O	27:BD:122:ASP:N	2.05	0.89
27:BD:13:ARG:CZ	27:BD:19:ALA:HB1	2.03	0.89
27:BD:246:PRO:CG	27:BD:250:TRP:HB3	2.02	0.89
30:BG:62:LEU:HD23	30:BG:143:GLU:CB	2.02	0.89
30:BG:74:LYS:HD3	30:BG:87:PRO:HG3	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:96:ARG:O	30:BG:99:MET:HB2	1.72	0.89
31:BH:126:PRO:O	31:BH:127:GLU:HG2	1.69	0.89
42:BU:18:LEU:HD23	42:BU:18:LEU:H	1.37	0.89
26:BC:117:PRO:HD3	26:BC:146:GLY:C	1.93	0.89
33:BL:138:VAL:O	33:BL:139:VAL:HG23	1.71	0.89
1:AA:1107:C:H2'	1:AA:1108:G:C5'	2.02	0.89
1:AA:255:G:H4'	19:AT:16:GLN:O	1.71	0.89
1:AA:307:C:C4	1:AA:308:C:H5	1.89	0.89
22:AW:13:LEU:HD12	22:AW:13:LEU:N	1.84	0.89
22:AW:44:ALA:CB	22:AW:91:LEU:HD12	2.02	0.89
24:BA:1697:G:H3'	24:BA:1698:A:H5'	1.52	0.89
24:BA:1785:A:OP1	24:BA:1982:C:H5'	1.72	0.89
24:BA:1812:A:H2'	24:BA:1813:G:O4'	1.70	0.89
24:BA:2209:C:H4'	27:BD:150:LYS:HB3	1.51	0.89
24:BA:2723:C:O2'	38:BQ:2:ARG:HA	1.72	0.89
24:BA:49:A:H5'	24:BA:50:U:OP1	1.71	0.89
24:BA:673:C:H2'	24:BA:674:G:H5'	1.53	0.89
35:BN:107:ARG:O	35:BN:109:LYS:HE2	1.72	0.89
36:BO:91:PHE:H	36:BO:125:VAL:HG11	1.35	0.89
40:BS:91:ARG:O	40:BS:93:ARG:NH2	2.04	0.89
44:BW:64:LYS:O	44:BW:70:LEU:HG	1.72	0.89
44:BW:73:ARG:HG2	44:BW:74:PRO:HD2	1.53	0.89
45:BX:12:THR:HA	45:BX:73:ARG:HD2	1.52	0.89
32:BK:112:LYS:H	32:BK:112:LYS:HD2	1.36	0.89
26:BC:162:GLU:C	26:BC:163:PHE:HD2	1.74	0.89
1:AA:346:G:H2'	1:AA:347:G:O4'	1.72	0.89
1:AA:105:G:H2'	1:AA:106:C:C6	2.08	0.89
1:AA:1339:A:C2'	1:AA:1340:A:H5'	2.03	0.89
13:AN:68:ALA:HA	13:AN:71:LYS:HD2	1.55	0.89
15:AP:72:ALA:O	15:AP:75:ALA:HB3	1.73	0.89
19:AT:5:VAL:HG22	19:AT:60:ILE:CA	2.00	0.89
19:AT:75:ARG:HH22	19:AT:77:VAL:HG22	1.35	0.89
22:AW:85:MET:HB2	22:AW:104:LEU:HD21	1.52	0.89
50:B3:68:ARG:H	50:B3:68:ARG:HH11	1.08	0.89
24:BA:1612:C:O2'	53:B6:5:TRP:HB3	1.70	0.89
24:BA:198:C:HO2'	24:BA:199:A:H8	0.91	0.89
24:BA:2425:A:OP2	24:BA:2427:C:H5''	1.71	0.89
24:BA:2512:C:H5''	28:BE:120:TRP:CH2	2.07	0.89
24:BA:832:G:H2'	24:BA:833:U:H5	1.33	0.89
24:BA:953:A:C2'	24:BA:954:G:H5'	2.02	0.89
27:BD:156:ALA:O	27:BD:158:ALA:N	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:9:TYR:OH	27:BD:91:ARG:NH2	2.04	0.89
28:BE:36:ARG:HD2	28:BE:41:LYS:NZ	1.85	0.89
29:BF:121:GLY:HA3	29:BF:191:ARG:HE	1.37	0.89
30:BG:61:ALA:HB2	30:BG:67:LYS:CB	2.01	0.89
36:BO:23:PRO:CB	36:BO:29:LYS:H	1.84	0.89
37:BP:26:TYR:HD1	37:BP:27:VAL:H	1.01	0.89
41:BT:55:ARG:HB3	41:BT:58:ARG:HE	1.35	0.89
41:BT:93:LYS:N	42:BU:10:LYS:HZ2	1.69	0.89
43:BV:13:SER:O	43:BV:17:VAL:HG13	1.73	0.89
43:BV:36:LEU:HD21	43:BV:47:VAL:HB	1.55	0.89
24:BA:2120:G:H21	26:BC:167:LYS:NZ	1.68	0.89
24:BA:2171:A:H4'	24:BA:2172:U:OP1	1.73	0.89
26:BC:33:ALA:O	26:BC:39:GLU:HB2	1.72	0.89
1:AA:266:G:H8	19:AT:67:LYS:HZ3	0.92	0.89
1:AA:468:A:H4'	18:AS:82:GLN:HB3	1.53	0.89
1:AA:789:U:C6	1:AA:790:A:H5''	2.07	0.89
5:AF:11:ARG:HD3	5:AF:15:THR:HG23	1.53	0.89
9:AJ:135:VAL:O	9:AJ:138:LYS:HB3	1.71	0.89
22:AW:72:LEU:HD13	22:AW:77:ALA:HB2	1.54	0.89
24:BA:95:G:H4'	48:B1:39:LEU:O	1.72	0.89
50:B3:29:PRO:HG2	50:B3:31:ILE:HG23	1.54	0.89
52:B5:7:ILE:C	52:B5:9:LEU:H	1.69	0.89
24:BA:1179:C:O2'	24:BA:1180:C:H6	1.56	0.89
24:BA:1471:A:H62	24:BA:1519:G:N2	1.70	0.89
24:BA:1492:G:N2	24:BA:1499:C:C4	2.41	0.89
24:BA:2832:U:C1'	24:BA:2834:G:H21	1.86	0.89
24:BA:594:U:H2'	24:BA:595:C:C5	2.06	0.89
24:BA:636:G:H22	36:BO:75:ILE:CD1	1.83	0.89
28:BE:7:VAL:HG11	28:BE:196:VAL:HG23	1.52	0.89
34:BM:4:TYR:CB	41:BT:64:ARG:HH12	1.84	0.89
34:BM:54:VAL:HG12	34:BM:122:VAL:HB	1.52	0.89
38:BQ:87:TYR:OH	38:BQ:116:LEU:HB2	1.71	0.89
38:BQ:55:ALA:HB2	38:BQ:79:LEU:HD11	1.55	0.89
45:BX:28:LYS:N	45:BX:28:LYS:HE2	1.88	0.89
6:AG:20:TYR:HD1	6:AG:21:LEU:H	1.08	0.89
11:AL:74:ILE:HA	11:AL:77:ILE:HD12	1.51	0.89
18:AS:39:TYR:CZ	18:AS:41:PRO:HG3	2.08	0.89
24:BA:1443:G:C2	24:BA:1444:G:H1'	2.07	0.89
24:BA:1454:U:H5'	24:BA:1455:G:OP2	1.72	0.89
24:BA:1954:G:C2	24:BA:2551:C:H5''	2.08	0.89
24:BA:2311:A:H3'	24:BA:2312:U:H5	1.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2597:G:C4'	27:BD:242:ARG:HE	1.85	0.89
24:BA:2665:A:H8	24:BA:2665:A:H3'	1.36	0.89
24:BA:310:A:H2'	24:BA:312:G:N7	1.87	0.89
31:BH:43:VAL:HG22	31:BH:52:VAL:CA	2.03	0.89
35:BN:96:THR:HG22	35:BN:97:ARG:N	1.86	0.89
37:BP:39:PRO:HG3	37:BP:127:ILE:HG12	1.54	0.89
40:BS:30:VAL:HG23	40:BS:90:GLN:HA	1.54	0.89
43:BV:5:ALA:HB3	43:BV:105:VAL:O	1.70	0.89
24:BA:751:A:H5'	43:BV:90:ARG:NH2	1.88	0.89
45:BX:95:LYS:HG3	45:BX:103:GLY:CA	2.02	0.89
4:AE:219:VAL:HG12	4:AE:223:ILE:CD1	2.03	0.89
10:AK:51:VAL:HG21	10:AK:60:ARG:HH21	1.37	0.89
52:B5:20:ASN:HD21	52:B5:43:CYS:N	1.70	0.89
24:BA:1981:A:H5"	24:BA:1982:C:OP2	1.71	0.89
24:BA:2286:A:N6	52:B5:29:ASN:O	2.05	0.89
24:BA:2852:G:H2'	24:BA:2853:C:C6	2.08	0.89
24:BA:1813:G:H4'	27:BD:46:GLN:HB2	1.50	0.89
28:BE:117:MET:CG	28:BE:136:ARG:HE	1.84	0.89
29:BF:9:ILE:HG12	29:BF:124:LEU:HB2	1.52	0.89
30:BG:7:LEU:HD22	30:BG:11:TYR:HE1	1.38	0.89
31:BH:6:ARG:NH1	31:BH:6:ARG:HA	1.88	0.89
33:BL:27:LEU:HD11	33:BL:57:ILE:HD11	1.53	0.89
39:BR:8:GLU:O	39:BR:9:ARG:C	2.11	0.89
43:BV:16:LYS:CD	43:BV:16:LYS:H	1.84	0.89
44:BW:85:PRO:CG	44:BW:87:GLN:HG2	2.01	0.89
1:AA:1261:A:H61	1:AA:1274:G:C1'	1.85	0.89
1:AA:1238:A:H62	1:AA:1301:U:H3	1.21	0.89
1:AA:429:U:H4'	1:AA:430:A:O5'	1.71	0.89
4:AE:69:LEU:HD13	4:AE:92:TYR:HA	1.53	0.89
6:AG:91:SER:HA	6:AG:94:LEU:HD12	1.53	0.89
7:AH:43:LEU:HD23	7:AH:44:GLY:N	1.88	0.89
24:BA:1198:U:H2'	24:BA:1199:U:C5	2.07	0.89
24:BA:1530:G:H2'	24:BA:1531:C:C6	2.06	0.89
24:BA:1992:G:H1'	24:BA:1993:U:C5	2.07	0.89
24:BA:1996:C:H5"	24:BA:1996:C:C6	2.08	0.89
24:BA:2468:G:H3'	24:BA:2476:A:C2	2.08	0.89
24:BA:2602:A:O2'	24:BA:2603:G:OP2	1.90	0.89
24:BA:2791:C:H2'	24:BA:2792:G:H8	1.38	0.89
24:BA:792:G:N2	24:BA:2072:G:H1'	1.88	0.89
24:BA:951:C:O2'	24:BA:952:G:H5'	1.73	0.89
30:BG:59:GLU:OE1	30:BG:152:LEU:HD22	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:45:VAL:HG22	31:BH:50:VAL:HG13	1.55	0.89
35:BN:77:ILE:HG23	40:BS:75:ILE:HD12	1.54	0.89
42:BU:49:THR:HG22	42:BU:50:PRO:HD2	1.53	0.89
43:BV:69:LEU:HD12	43:BV:109:GLU:OE1	1.72	0.89
46:BY:151:HIS:CB	46:BY:170:THR:H	1.86	0.89
1:AA:108:G:H5''	1:AA:109:A:H5''	1.51	0.89
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.07	0.89
1:AA:1188:A:H5'	12:AM:61:GLU:OE2	1.73	0.89
1:AA:322:C:O2'	1:AA:323:U:H5'	1.73	0.89
1:AA:571:U:H3'	1:AA:572:A:C5'	1.99	0.89
6:AG:20:TYR:O	6:AG:22:LYS:N	2.05	0.89
17:AR:7:GLU:HA	17:AR:10:LYS:HD3	1.54	0.89
52:B5:16:CYS:HB3	52:B5:49:HIS:ND1	1.87	0.89
24:BA:1793:C:N4	24:BA:1825:A:H61	1.71	0.89
24:BA:2286:A:H62	52:B5:32:ASN:N	1.70	0.89
24:BA:2393:A:OP2	54:B7:32:LEU:HD11	1.72	0.89
24:BA:2581:G:H1	24:BA:2610:C:H6	1.20	0.89
24:BA:2788:C:H4'	24:BA:2810:A:H5'	1.54	0.89
24:BA:70:G:H4'	24:BA:71:A:C5'	2.02	0.89
24:BA:988:A:H62	49:B2:13:ILE:CG1	1.86	0.89
28:BE:44:TYR:HB3	28:BE:82:ARG:NH1	1.88	0.89
33:BL:115:LEU:HD21	33:BL:126:MET:SD	2.13	0.89
37:BP:45:GLN:O	37:BP:48:GLU:HG2	1.73	0.89
41:BT:74:LEU:HD22	41:BT:78:THR:HG21	1.52	0.89
46:BY:48:PHE:HD2	46:BY:54:HIS:HE2	1.21	0.89
3:AD:22:G:H2'	3:AD:23:A:C8	2.08	0.89
1:AA:1158:C:C4	1:AA:1160:G:H1'	2.07	0.88
4:AE:56:ARG:HH11	4:AE:56:ARG:HB3	1.34	0.88
4:AE:97:TRP:HZ2	4:AE:102:LEU:HD13	1.38	0.88
6:AG:20:TYR:N	6:AG:33:MET:SD	2.47	0.88
8:AI:76:ALA:HB1	8:AI:80:ARG:NH1	1.87	0.88
10:AK:86:ILE:CG2	10:AK:133:LEU:HB2	2.04	0.88
16:AQ:45:ARG:NH1	16:AQ:45:ARG:HB2	1.86	0.88
48:B1:20:VAL:O	48:B1:24:LYS:HG3	1.73	0.88
24:BA:1443:G:N2	24:BA:1444:G:H1'	1.87	0.88
24:BA:1935:G:O2'	24:BA:1937:A:H2	1.56	0.88
24:BA:1943:U:N1	24:BA:1945:G:H5''	1.87	0.88
24:BA:966:G:C1'	24:BA:2267:A:N6	2.36	0.88
24:BA:481:G:H1	24:BA:509:C:H42	1.21	0.88
24:BA:1817:G:P	27:BD:88:ARG:HH12	1.96	0.88
29:BF:156:LEU:HD12	29:BF:167:ALA:CB	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:8:LYS:NZ	30:BG:103:LEU:HG	1.87	0.88
30:BG:181:ARG:H	30:BG:181:ARG:HD2	1.38	0.88
31:BH:155:SER:HB2	31:BH:158:HIS:O	1.73	0.88
24:BA:662:G:H4'	36:BO:18:ARG:N	1.88	0.88
41:BT:67:ALA:HB1	41:BT:71:GLN:HE22	1.37	0.88
42:BU:6:LYS:HE2	42:BU:10:LYS:O	1.73	0.88
24:BA:748:G:H5'	43:BV:88:ARG:NH1	1.88	0.88
32:BK:83:ALA:HA	32:BK:89:TYR:CE1	2.08	0.88
26:BC:30:LYS:NZ	26:BC:182:PRO:HD3	1.88	0.88
1:AA:287:U:H2'	1:AA:287:U:O2	1.74	0.88
1:AA:61:G:H2'	1:AA:62:U:C6	2.08	0.88
1:AA:633:G:H2'	1:AA:634:C:H6	1.34	0.88
4:AE:39:ILE:HG23	4:AE:41:ILE:HD11	1.55	0.88
14:AO:86:ARG:NH1	14:AO:119:LYS:HG3	1.88	0.88
20:AU:58:LEU:HD22	20:AU:62:GLU:HG3	1.56	0.88
54:B7:38:GLY:O	54:B7:40:GLU:N	2.06	0.88
24:BA:1725:G:N2	24:BA:1726:G:C1'	2.36	0.88
24:BA:223:A:N1	24:BA:407:G:O2'	2.06	0.88
24:BA:554:U:H2'	24:BA:556:G:N7	1.87	0.88
24:BA:988:A:H4'	24:BA:1155:A:H2	1.36	0.88
28:BE:5:LEU:HD21	28:BE:196:VAL:HB	1.55	0.88
30:BG:116:ASP:HB3	30:BG:118:ARG:HH21	1.37	0.88
24:BA:670:A:H2'	36:BO:41:ARG:CZ	2.03	0.88
40:BS:21:GLU:O	40:BS:23:ARG:HD3	1.72	0.88
46:BY:6:LYS:HG2	46:BY:7:ALA:N	1.86	0.88
26:BC:91:ALA:HB2	26:BC:153:ILE:HG21	1.53	0.88
1:AA:1028:C:H2'	1:AA:1028(A):C:C6	2.08	0.88
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.08	0.88
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.08	0.88
1:AA:650:G:O2'	1:AA:651:C:H5'	1.74	0.88
5:AF:38:ARG:HB2	5:AF:94:LEU:HD11	1.52	0.88
5:AF:83:ARG:HG3	5:AF:87:LEU:HD11	1.55	0.88
8:AI:81:ILE:HG22	8:AI:82:ARG:N	1.87	0.88
12:AM:79:ARG:HH22	12:AM:82:ILE:HD12	1.37	0.88
1:AA:1228:C:H4'	15:AP:116:THR:HA	1.52	0.88
50:B3:5:ILE:HD13	50:B3:60:GLN:HE22	1.39	0.88
24:BA:1312:U:H2'	24:BA:1313:U:C6	2.07	0.88
24:BA:1326:U:C2'	24:BA:1327:C:H5'	2.03	0.88
24:BA:1672:C:H3'	24:BA:1673:U:H5''	1.56	0.88
24:BA:228:A:H2'	24:BA:229:A:H5'	1.55	0.88
24:BA:848:G:H2'	24:BA:849:A:C8	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2636:U:H4'	28:BE:79:ARG:HD3	1.55	0.88
29:BF:201:VAL:HG12	29:BF:205:ARG:HE	1.36	0.88
29:BF:66:PRO:O	29:BF:68:LYS:N	2.06	0.88
37:BP:42:ILE:HD13	37:BP:43:THR:N	1.88	0.88
38:BQ:97:VAL:HA	38:BQ:114:VAL:HG13	1.55	0.88
32:BK:77:LEU:N	32:BK:77:LEU:HD23	1.89	0.88
24:BA:924:C:H2'	24:BA:925:C:H6	1.38	0.88
1:AA:256:U:H2'	1:AA:257:G:O4'	1.73	0.88
1:AA:414:A:H2'	1:AA:415:A:H8	1.37	0.88
1:AA:576:G:N7	1:AA:881:G:H1'	1.89	0.88
5:AF:108:ASN:ND2	5:AF:110:ASN:HB2	1.87	0.88
24:BA:1376:C:H2'	24:BA:1377:G:O4'	1.73	0.88
24:BA:2346:A:H4'	24:BA:2383:G:H5''	1.56	0.88
24:BA:569:U:H5'	24:BA:946:G:H1'	1.51	0.88
24:BA:70:G:H5''	24:BA:71:A:OP1	1.73	0.88
27:BD:111:LEU:HB3	27:BD:115:GLN:HE22	1.37	0.88
27:BD:117:VAL:HG13	27:BD:129:ASN:OD1	1.71	0.88
28:BE:165:VAL:HG12	28:BE:166:THR:H	1.39	0.88
31:BH:28:GLY:HA3	31:BH:79:VAL:HB	1.56	0.88
33:BL:23:VAL:HG12	33:BL:34:ILE:HA	1.53	0.88
35:BN:52:VAL:HG22	35:BN:53:LYS:N	1.86	0.88
40:BS:15:VAL:HG13	40:BS:81:PRO:HB3	1.54	0.88
44:BW:54:VAL:HG22	44:BW:81:VAL:HG23	1.55	0.88
45:BX:52:SER:HB3	45:BX:56:PRO:CB	2.03	0.88
46:BY:118:GLN:HE21	46:BY:120:ILE:HG23	1.38	0.88
32:BK:114:LEU:HA	32:BK:130:TYR:HB3	1.53	0.88
4:AE:186:ALA:O	4:AE:201:ILE:HB	1.74	0.88
5:AF:53:ALA:HB2	5:AF:115:LEU:HD21	1.56	0.88
6:AG:13:ARG:HH21	6:AG:40:PRO:HA	1.39	0.88
10:AK:12:ARG:HD3	10:AK:26:VAL:CG2	2.04	0.88
11:AL:26:VAL:O	11:AL:32:ASP:HA	1.72	0.88
24:BA:1206:G:H3'	24:BA:1206:G:C8	2.07	0.88
24:BA:1996:C:C5'	24:BA:1996:C:H6	1.86	0.88
24:BA:2298:A:H2'	24:BA:2299:G:O4'	1.73	0.88
24:BA:2864:G:H2'	24:BA:2865:U:C6	2.09	0.88
24:BA:612:G:N2	24:BA:617:G:O6	2.06	0.88
24:BA:728:G:N1	24:BA:762:U:H3'	1.88	0.88
25:BB:116:G:C4	25:BB:117:G:H1'	2.07	0.88
36:BO:13:ASN:HD22	36:BO:14:LYS:N	1.71	0.88
37:BP:42:ILE:HD12	37:BP:47:ILE:CG1	2.03	0.88
37:BP:78:PRO:O	37:BP:79:LEU:HD23	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:50:ARG:HB2	41:BT:50:ARG:HH11	1.39	0.88
43:BV:25:ARG:HH21	43:BV:74:ALA:H	0.88	0.88
45:BX:2:ARG:HH21	45:BX:4:LYS:HB2	1.37	0.88
24:BA:2162:G:H2'	24:BA:2163:C:H5'	1.55	0.88
1:AA:1346:A:C2	9:AJ:10:ARG:HD3	2.08	0.88
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.08	0.88
1:AA:573:A:H2'	1:AA:574:A:C8	2.07	0.88
1:AA:979:C:H42	16:AQ:18:VAL:HB	1.39	0.88
5:AF:67:THR:HA	5:AF:102:ASN:HB2	1.56	0.88
6:AG:11:LEU:HA	6:AG:14:ARG:HB3	1.53	0.88
7:AH:147:ASP:HA	7:AH:150:ARG:HB2	1.56	0.88
18:AS:3:LYS:HE2	18:AS:24:ALA:HB2	1.52	0.88
49:B2:10:LYS:HZ3	49:B2:12:PRO:CG	1.85	0.88
49:B2:9:VAL:HG13	49:B2:54:VAL:HA	1.56	0.88
50:B3:8:LYS:HG2	50:B3:9:LEU:H	1.38	0.88
55:B8:11:CYS:HB3	55:B8:32:HIS:NE2	1.87	0.88
24:BA:1303:G:N2	24:BA:1626:G:O2'	2.04	0.88
24:BA:2218:G:H4'	27:BD:186:HIS:CE1	2.09	0.88
24:BA:2551:C:H2'	24:BA:2552:U:H6	1.39	0.88
24:BA:2681:C:N4	24:BA:2725:A:H62	1.71	0.88
24:BA:780:G:H2'	24:BA:782:A:N7	1.89	0.88
24:BA:898:C:H3'	24:BA:899:A:H5''	1.55	0.88
24:BA:914:C:H3'	24:BA:914:C:C6	2.09	0.88
24:BA:919:G:H2'	24:BA:920:G:H8	1.39	0.88
27:BD:161:THR:HG23	27:BD:195:ALA:HB1	1.55	0.88
27:BD:234:GLY:H	27:BD:241:PRO:HG2	1.38	0.88
28:BE:12:THR:HG23	28:BE:21:VAL:HB	1.56	0.88
28:BE:23:VAL:HG23	28:BE:184:VAL:HG23	1.56	0.88
31:BH:43:VAL:CG2	31:BH:52:VAL:HA	2.02	0.88
34:BM:57:ALA:HB3	34:BM:124:ALA:HA	1.53	0.88
37:BP:33:GLY:O	37:BP:131:ILE:HG23	1.73	0.88
41:BT:114:LYS:HG2	41:BT:115:ALA:H	1.39	0.88
41:BT:13:LYS:HD2	41:BT:13:LYS:N	1.80	0.88
24:BA:997:G:H5''	41:BT:92:ARG:HH11	1.37	0.88
43:BV:11:ARG:NH2	43:BV:11:ARG:HB3	1.88	0.88
46:BY:104:PHE:CZ	46:BY:120:ILE:HG22	2.08	0.88
46:BY:68:PRO:O	46:BY:90:VAL:HA	1.73	0.88
47:BZ:5:LYS:HG2	47:BZ:6:GLY:N	1.89	0.88
3:AD:9:A:H62	3:AD:23:A:H62	1.16	0.88
26:BC:18:LYS:HG2	26:BC:20:TYR:H	1.38	0.88
1:AA:279:A:H1'	1:AA:281:G:C2	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:64:G:H4'	1:AA:65:U:C5'	2.02	0.88
4:AE:146:GLN:NE2	4:AE:150:SER:HB2	1.89	0.88
12:AM:50:ILE:HB	16:AQ:41:ARG:NE	1.88	0.88
17:AR:28:GLN:O	17:AR:32:LEU:HD23	1.72	0.88
19:AT:43:LEU:C	19:AT:43:LEU:HD13	1.94	0.88
53:B6:33:ARG:HG2	53:B6:37:LYS:HD3	1.53	0.88
53:B6:33:ARG:O	53:B6:37:LYS:HB2	1.73	0.88
24:BA:1153:C:C2	24:BA:1154:G:N7	2.42	0.88
24:BA:1344:G:H4'	24:BA:1384:A:N1	1.86	0.88
24:BA:1824:G:H21	27:BD:253:GLN:HG2	1.38	0.88
24:BA:1971:A:N3	27:BD:240:ALA:N	2.20	0.88
24:BA:2287:A:N7	24:BA:2289:G:C5	2.42	0.88
24:BA:2533:A:H5''	24:BA:2665:A:H5'	1.56	0.88
24:BA:2507:C:C5'	24:BA:2573:C:H41	1.87	0.88
24:BA:387:U:OP2	50:B3:31:ILE:HG21	1.73	0.88
24:BA:76:C:H2'	24:BA:77:C:H5'	1.55	0.88
30:BG:47:LYS:HE2	30:BG:73:ALA:HB3	1.55	0.88
34:BM:73:THR:HB	34:BM:75:TYR:HE1	1.36	0.88
36:BO:81:GLN:HG2	36:BO:86:LYS:HE3	1.56	0.88
45:BX:64:GLU:OE2	45:BX:64:GLU:HA	1.74	0.88
45:BX:65:ALA:HB3	45:BX:66:PRO:HD3	1.55	0.88
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.08	0.88
5:AF:38:ARG:HB2	5:AF:94:LEU:HD21	1.55	0.88
1:AA:7:G:N2	7:AH:121:LYS:HG3	1.88	0.88
7:AH:144:THR:HG22	7:AH:146:ALA:N	1.88	0.88
7:AH:43:LEU:H	7:AH:65:ASN:ND2	1.72	0.88
1:AA:942:G:H21	11:AL:124:GLN:NE2	1.71	0.88
16:AQ:58:LYS:HD3	16:AQ:59:ALA:H	1.33	0.88
24:BA:2443:C:H2'	24:BA:2444:G:H8	1.36	0.88
24:BA:592:G:H5'	24:BA:593:G:OP2	1.74	0.88
24:BA:1814:G:OP1	27:BD:43:ARG:HB2	1.73	0.88
28:BE:100:GLU:H	28:BE:172:VAL:CG2	1.86	0.88
36:BO:113:LYS:NZ	36:BO:115:LEU:HD12	1.88	0.88
36:BO:55:ARG:HH21	36:BO:55:ARG:CB	1.87	0.88
37:BP:25:ASP:HB3	37:BP:102:VAL:HG12	1.54	0.88
38:BQ:77:ARG:CB	38:BQ:77:ARG:HH11	1.84	0.88
39:BR:13:ARG:HD3	39:BR:90:GLY:O	1.72	0.88
41:BT:28:ARG:HB2	41:BT:38:THR:HG21	1.52	0.88
4:AE:135:GLN:C	4:AE:139:LYS:HZ2	1.76	0.88
4:AE:15:VAL:HG22	4:AE:209:ARG:NE	1.88	0.88
6:AG:78:LEU:HD22	6:AG:96:LEU:HD13	1.56	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:23:TYR:O	15:AP:66:LEU:HD12	1.74	0.88
18:AS:20:VAL:HG13	18:AS:34:GLU:O	1.74	0.88
19:AT:86:GLU:OE2	19:AT:89:LEU:HD12	1.74	0.88
24:BA:242:G:H8	54:B7:4:MET:CG	1.86	0.88
54:B7:50:LEU:HD23	54:B7:51:ALA:N	1.89	0.88
24:BA:1954:G:O2'	24:BA:1955:U:H5'	1.74	0.88
24:BA:2020:A:H2'	24:BA:2021:C:H5''	1.53	0.88
24:BA:2227:A:C1'	27:BD:262:ARG:HD2	2.03	0.88
24:BA:2244:U:H1'	24:BA:2434:A:C6	2.09	0.88
24:BA:197:A:N6	24:BA:248:G:N2	2.21	0.88
24:BA:613:U:H5'	24:BA:614:U:C5	2.08	0.88
24:BA:669:G:N3	24:BA:669:G:H2'	1.85	0.88
27:BD:17:THR:O	27:BD:19:ALA:N	2.07	0.88
28:BE:133:LYS:HB3	28:BE:137:HIS:CE1	2.08	0.88
28:BE:36:ARG:HG3	28:BE:79:ARG:NH1	1.89	0.88
35:BN:7:TYR:CA	35:BN:18:LYS:HE3	2.04	0.88
35:BN:79:PHE:HB2	40:BS:73:GLU:CG	2.04	0.88
42:BU:41:GLY:HA2	42:BU:51:VAL:HG22	1.55	0.88
32:BK:79:ILE:O	32:BK:144:VAL:HA	1.72	0.88
1:AA:27:G:N2	1:AA:557:G:H1'	1.89	0.88
1:AA:496:A:H4'	1:AA:497:U:OP1	1.74	0.88
1:AA:533:A:H2'	1:AA:535:A:OP2	1.74	0.88
1:AA:545:C:O2'	1:AA:546:G:H5'	1.74	0.88
3:AC:40:C:H2'	3:AC:41:C:C5'	2.04	0.88
4:AE:115:LEU:HD13	4:AE:145:LEU:HB3	1.56	0.88
9:AJ:63:LYS:HE2	9:AJ:63:LYS:HA	1.54	0.88
49:B2:10:LYS:HE2	49:B2:31:LEU:HD21	1.55	0.88
24:BA:1024:G:C5	24:BA:1025:G:C8	2.62	0.88
24:BA:1143:A:H2'	24:BA:1144:G:C8	2.09	0.88
24:BA:1359:A:H2'	24:BA:1360:A:H5'	1.56	0.88
24:BA:1470:G:N2	24:BA:1522:G:H1	1.72	0.88
24:BA:1782:C:H42	24:BA:2587:A:N6	1.72	0.88
24:BA:2329:G:H22	24:BA:2386:C:H42	1.20	0.88
24:BA:2468:G:H22	24:BA:2481:G:H2'	1.37	0.88
24:BA:2583:G:H2'	24:BA:2584:U:C2	2.09	0.88
24:BA:612:G:H4'	24:BA:616:A:C6	2.09	0.88
29:BF:106:ARG:HG3	29:BF:107:LYS:N	1.87	0.88
29:BF:110:LEU:CA	29:BF:183:VAL:HG22	2.03	0.88
34:BM:115:ARG:O	34:BM:118:LYS:HB2	1.74	0.88
34:BM:97:ARG:HA	34:BM:100:GLU:CG	2.03	0.88
46:BY:10:ARG:CZ	46:BY:36:LYS:H	1.86	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:57:ILE:CG2	46:BY:58:VAL:N	2.37	0.88
24:BA:2331:G:O3'	47:BZ:43:THR:HB	1.73	0.88
1:AA:1346:A:H4'	1:AA:1347:G:O5'	1.72	0.87
1:AA:21:G:H2'	1:AA:22:G:H8	1.38	0.87
1:AA:448:A:H2'	1:AA:449:C:H6	1.39	0.87
1:AA:655:A:H2'	1:AA:656:C:C6	2.09	0.87
4:AE:42:ILE:HG12	4:AE:43:ASP:H	1.38	0.87
7:AH:102:ALA:HB2	7:AH:120:THR:HG22	1.54	0.87
7:AH:121:LYS:NZ	7:AH:122:GLU:N	2.19	0.87
10:AK:14:ARG:O	10:AK:17:THR:HB	1.73	0.87
10:AK:6:ILE:HG23	10:AK:7:ALA:N	1.86	0.87
1:AA:1244:C:OP2	23:AX:9:ARG:HD3	1.74	0.87
24:BA:1144:G:H2'	24:BA:1145:C:H6	1.38	0.87
24:BA:1775:U:C6	27:BD:208:LYS:HD2	2.09	0.87
24:BA:1901:A:H4'	27:BD:244:ARG:HH12	1.40	0.87
24:BA:2207:C:H3'	24:BA:2208:U:H5''	1.56	0.87
24:BA:2432:A:H2	50:B3:30:GLU:HA	1.39	0.87
24:BA:2522:U:O2'	24:BA:2647:U:OP1	1.92	0.87
24:BA:2755:C:HO2'	24:BA:2756:U:H6	0.88	0.87
24:BA:292:C:H3'	24:BA:293:U:N3	1.89	0.87
25:BB:75:G:H4'	46:BY:36:LYS:HE2	1.57	0.87
25:BB:97:G:H2'	25:BB:98:G:H5'	1.55	0.87
28:BE:49:LEU:HG	28:BE:74:PRO:CG	2.04	0.87
28:BE:53:PRO:HG3	28:BE:75:VAL:HG22	1.54	0.87
29:BF:5:ALA:C	29:BF:20:LEU:HD13	1.93	0.87
30:BG:16:ARG:HD2	30:BG:20:ILE:HG13	1.54	0.87
37:BP:101:ARG:HG3	37:BP:101:ARG:HH11	1.39	0.87
40:BS:39:ARG:HG3	40:BS:42:ILE:HD12	1.57	0.87
40:BS:28:VAL:O	40:BS:52:ILE:HG13	1.74	0.87
41:BT:108:GLU:OE1	41:BT:109:LEU:HG	1.73	0.87
41:BT:40:PHE:HB3	42:BU:78:LYS:HD2	1.56	0.87
44:BW:21:PHE:HE2	44:BW:27:THR:H	1.19	0.87
45:BX:71:LYS:HD2	45:BX:71:LYS:H	1.38	0.87
1:AA:1137:C:H4'	1:AA:1138:G:N2	1.89	0.87
1:AA:598:U:H4'	10:AK:94:TYR:HD2	1.37	0.87
1:AA:787:A:H2'	1:AA:788:U:H5'	1.54	0.87
14:AO:117:ARG:HH11	14:AO:117:ARG:HG3	1.37	0.87
18:AS:6:LEU:HD23	18:AS:17:TYR:HD2	1.37	0.87
22:AW:72:LEU:HD22	22:AW:77:ALA:N	1.89	0.87
48:B1:27:LEU:HD13	48:B1:52:ILE:HD11	1.56	0.87
24:BA:2357:U:H2'	24:BA:2358:G:H5''	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:350:U:O2	24:BA:350:U:H2'	1.72	0.87
24:BA:647:G:H2'	24:BA:648:G:C8	2.09	0.87
24:BA:704:G:H21	24:BA:725:G:N2	1.72	0.87
30:BG:101:ILE:O	30:BG:104:GLU:HB3	1.73	0.87
36:BO:105:LEU:O	36:BO:106:LEU:HG	1.75	0.87
25:BB:51:G:C5'	39:BR:60:GLY:HA2	2.05	0.87
47:BZ:12:ASN:HA	47:BZ:14:ARG:NH2	1.89	0.87
47:BZ:38:VAL:HB	47:BZ:59:LEU:HD12	1.56	0.87
1:AA:118:U:O4	1:AA:288:A:H2'	1.74	0.87
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.09	0.87
1:AA:611:A:H61	1:AA:629:G:H1	0.88	0.87
3:AC:20:U:O2	3:AC:20:U:H2'	1.72	0.87
3:AC:75:C:OP1	24:BA:2602:A:H5'	1.75	0.87
4:AE:20:GLU:CD	4:AE:189:ASP:OD2	2.13	0.87
4:AE:212:GLN:HB3	4:AE:235:SER:OG	1.74	0.87
7:AH:89:ILE:HG12	7:AH:131:ILE:CD1	2.03	0.87
15:AP:52:GLU:HA	15:AP:55:ARG:CD	2.04	0.87
54:B7:5:LYS:HB2	54:B7:60:LEU:HA	1.55	0.87
55:B8:2:LYS:O	55:B8:3:VAL:HG23	1.74	0.87
24:BA:1814:G:H2'	24:BA:1815:A:C8	2.09	0.87
24:BA:231:C:N4	24:BA:232:G:N2	2.21	0.87
24:BA:2781:A:H3'	24:BA:2781:A:C8	2.08	0.87
27:BD:145:VAL:HG13	27:BD:191:ALA:HB2	1.56	0.87
24:BA:2210:G:C8	27:BD:68:LYS:HD3	2.10	0.87
31:BH:125:VAL:HA	31:BH:131:VAL:CG2	2.05	0.87
35:BN:59:LYS:HB2	35:BN:84:ALA:O	1.73	0.87
37:BP:106:VAL:CG2	37:BP:107:ALA:H	1.83	0.87
40:BS:6:LEU:HD23	40:BS:7:ILE:H	1.39	0.87
46:BY:78:LYS:HZ2	46:BY:78:LYS:HB3	1.38	0.87
1:AA:1274:G:N2	1:AA:1275:A:H62	1.71	0.87
1:AA:770:C:C1'	1:AA:900:A:H2	1.87	0.87
4:AE:71:VAL:HG13	4:AE:93:VAL:O	1.71	0.87
6:AG:191:ARG:NH2	6:AG:194:LEU:O	2.07	0.87
9:AJ:115:ARG:HB2	9:AJ:118:VAL:CG2	2.04	0.87
10:AK:46:LYS:NZ	10:AK:64:LYS:HA	1.88	0.87
15:AP:67:GLU:CD	15:AP:68:GLY:H	1.77	0.87
48:B1:27:LEU:HA	48:B1:30:LEU:CG	2.05	0.87
24:BA:1044:G:H2'	24:BA:1111:A:N3	1.90	0.87
24:BA:1255:U:H5'	24:BA:1256:G:O5'	1.72	0.87
24:BA:2296:U:H3'	24:BA:2296:U:H6	1.39	0.87
24:BA:242:G:H8	54:B7:4:MET:HG3	1.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2748:A:N3	31:BH:67:LEU:CD2	2.38	0.87
24:BA:292:C:H2'	24:BA:293:U:O2	1.75	0.87
24:BA:298:G:H8	24:BA:298:G:O5'	1.58	0.87
24:BA:832:G:H2'	24:BA:833:U:C5	2.09	0.87
25:BB:55:U:O2'	25:BB:56:G:H5'	1.74	0.87
24:BA:606:U:OP1	29:BF:103:LYS:N	2.06	0.87
29:BF:65:TRP:HE1	29:BF:73:ALA:HB3	1.35	0.87
30:BG:53:LEU:HG	30:BG:72:ARG:CD	2.04	0.87
37:BP:74:TYR:CZ	37:BP:94:VAL:HG22	2.09	0.87
45:BX:26:LYS:HB2	45:BX:38:ILE:HD11	1.55	0.87
46:BY:151:HIS:HB3	46:BY:170:THR:N	1.89	0.87
32:BK:94:ALA:HA	32:BK:97:ILE:HG13	1.57	0.87
24:BA:1585:C:H5''	24:BA:1586:A:OP1	1.73	0.87
44:BW:19:ALA:O	44:BW:22:ALA:HB3	1.74	0.87
2:A1:22:C:H2'	2:A1:23:A:C8	2.08	0.87
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.08	0.87
1:AA:1413:A:O2'	1:AA:1414:U:H5'	1.74	0.87
1:AA:1417:G:H2'	1:AA:1482:G:H22	1.32	0.87
1:AA:938:A:O2'	1:AA:939:G:H5'	1.75	0.87
7:AH:50:GLU:O	7:AH:53:LEU:HB2	1.74	0.87
9:AJ:138:LYS:HE2	9:AJ:142:GLU:OE1	1.75	0.87
14:AO:71:PRO:HD2	14:AO:100:ILE:HG12	1.56	0.87
15:AP:48:LEU:HD21	15:AP:52:GLU:CB	2.05	0.87
17:AR:51:HIS:O	17:AR:54:ARG:HB3	1.74	0.87
20:AU:74:ARG:N	20:AU:79:LEU:HD21	1.89	0.87
50:B3:28:LYS:HE3	50:B3:29:PRO:HD2	1.56	0.87
54:B7:2:PRO:HB2	54:B7:4:MET:HE3	1.55	0.87
24:BA:1155:A:C2'	24:BA:1156:A:H5''	2.05	0.87
24:BA:51:G:H1'	24:BA:118:A:N6	1.89	0.87
24:BA:1241:A:C2	24:BA:1241:A:H5''	2.08	0.87
24:BA:1697:G:C3'	24:BA:1698:A:H5'	2.05	0.87
24:BA:2206:C:H2'	24:BA:2207:C:C6	2.09	0.87
24:BA:2514:U:H2'	24:BA:2515:C:C6	2.08	0.87
24:BA:1050:A:N6	24:BA:2751:G:C6	2.42	0.87
24:BA:2787:C:O5'	28:BE:64:LYS:HD2	1.74	0.87
24:BA:775:G:H4'	24:BA:777:A:C4	2.09	0.87
25:BB:103:U:C2'	25:BB:104:A:H5'	2.04	0.87
27:BD:107:ALA:H	27:BD:108:PRO:HD3	1.39	0.87
27:BD:130:ALA:HA	27:BD:193:VAL:HG23	1.55	0.87
24:BA:2593:U:O4	27:BD:239:ARG:NH1	2.08	0.87
27:BD:37:LEU:CD2	27:BD:64:ILE:HG22	2.01	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:134:MET:HE2	33:BL:136:VAL:HG23	1.54	0.87
34:BM:39:ARG:HB3	34:BM:48:MET:CG	2.05	0.87
37:BP:34:LEU:CB	37:BP:67:ARG:HH22	1.86	0.87
38:BQ:74:LYS:O	38:BQ:78:LYS:HB2	1.74	0.87
41:BT:93:LYS:HG2	42:BU:10:LYS:NZ	1.89	0.87
32:BK:77:LEU:HG	32:BK:141:LYS:O	1.75	0.87
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.09	0.87
1:AA:819:A:H5''	1:AA:820:U:OP2	1.74	0.87
4:AE:115:LEU:HD22	4:AE:149:LEU:HD13	1.56	0.87
4:AE:223:ILE:O	4:AE:226:ARG:HB3	1.74	0.87
6:AG:105:VAL:HG21	6:AG:121:VAL:CG2	2.03	0.87
9:AJ:69:VAL:CG2	9:AJ:104:LEU:HD11	2.04	0.87
10:AK:38:ILE:HG13	10:AK:118:VAL:CG1	2.03	0.87
10:AK:45:ILE:HD11	10:AK:48:TYR:HB3	1.55	0.87
11:AL:106:ALA:O	11:AL:107:ARG:HG3	1.75	0.87
24:BA:852:G:H5'	49:B2:45:GLY:HA3	1.54	0.87
55:B8:7:VAL:HB	55:B8:36:GLN:OE1	1.75	0.87
24:BA:1479:G:H2'	24:BA:1480:G:C8	2.09	0.87
24:BA:1479:G:H2'	24:BA:1480:G:H8	1.37	0.87
24:BA:1605:C:H2'	24:BA:1606:G:O4'	1.73	0.87
24:BA:263:C:H2'	24:BA:263:C:O2	1.74	0.87
24:BA:392:C:H2'	24:BA:393:C:H6	1.38	0.87
25:BB:89(A):A:H2'	25:BB:90:C:C5'	2.00	0.87
27:BD:134:ARG:C	27:BD:168:ARG:HH22	1.78	0.87
28:BE:100:GLU:O	28:BE:172:VAL:HG13	1.73	0.87
28:BE:147:PRO:HG2	28:BE:149:ARG:CD	2.04	0.87
28:BE:66:HIS:ND1	28:BE:67:PHE:N	2.23	0.87
30:BG:110:ALA:HB1	30:BG:139:LEU:HG	1.55	0.87
30:BG:57:ALA:C	30:BG:67:LYS:HB2	1.94	0.87
30:BG:75:LYS:O	30:BG:83:ARG:HA	1.75	0.87
33:BL:7:VAL:HG11	33:BL:67:PHE:CE1	2.10	0.87
35:BN:106:LEU:HD22	40:BS:39:ARG:NH1	1.90	0.87
36:BO:95:VAL:O	36:BO:97:PRO:HD2	1.74	0.87
24:BA:910:A:C6	37:BP:17:LEU:HD11	2.10	0.87
42:BU:67:GLY:O	42:BU:68:LYS:HB2	1.73	0.87
26:BC:119:VAL:O	26:BC:123:VAL:HG23	1.74	0.87
24:BA:2103:C:H2'	24:BA:2104:G:C8	2.08	0.87
1:AA:1509:C:O2'	1:AA:1510:U:H5'	1.73	0.87
3:AC:28:G:H2'	3:AC:29:G:C8	2.10	0.87
4:AE:213:LEU:HD22	4:AE:214:ILE:CD1	2.04	0.87
6:AG:31:CYS:O	6:AG:31:CYS:SG	2.32	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:58:LEU:HD13	6:AG:59:ARG:HH11	1.38	0.87
8:AI:10:LEU:HD23	8:AI:10:LEU:N	1.89	0.87
14:AO:117:ARG:NH2	14:AO:124:LYS:HA	1.90	0.87
17:AR:29:VAL:HG21	17:AR:81:LEU:HD11	1.55	0.87
18:AS:9:PHE:CZ	18:AS:18:ARG:HG3	2.09	0.87
24:BA:1178:C:H2'	24:BA:1179:C:H6	1.37	0.87
24:BA:1179:C:O2'	24:BA:1180:C:O5'	1.93	0.87
24:BA:1956:U:H2'	24:BA:1957:C:H6	1.32	0.87
24:BA:2390:U:O2'	24:BA:2391:G:H5'	1.75	0.87
24:BA:370:G:C2	24:BA:424:G:N7	2.42	0.87
31:BH:25:LYS:HZ3	31:BH:32:GLU:HB2	1.38	0.87
32:BK:32:PRO:CG	32:BK:33:ARG:H	1.87	0.87
37:BP:8:LYS:HZ3	37:BP:11:LYS:NZ	1.73	0.87
39:BR:57:LYS:HZ2	39:BR:65:VAL:CA	1.87	0.87
43:BV:14:PRO:O	43:BV:17:VAL:HG22	1.73	0.87
43:BV:25:ARG:HD3	43:BV:74:ALA:HB3	1.55	0.87
43:BV:48:ALA:O	43:BV:51:LEU:HB2	1.75	0.87
45:BX:23:ARG:HD2	45:BX:39:VAL:HG22	1.56	0.87
1:AA:1313:U:C5	21:AV:4:SER:HB2	2.09	0.87
1:AA:1401:G:H2'	1:AA:1402:C:O4'	1.74	0.87
1:AA:1408:A:C2	1:AA:1495:U:H5	1.93	0.87
1:AA:735:C:H2'	1:AA:736:C:H6	1.37	0.87
1:AA:955:U:H1'	1:AA:1227:A:N6	1.90	0.87
5:AF:40:ARG:HA	5:AF:43:LEU:HD13	1.55	0.87
7:AH:109:ILE:CG2	7:AH:135:THR:HG21	2.04	0.87
10:AK:14:ARG:HA	10:AK:17:THR:OG1	1.72	0.87
15:AP:88:ARG:HG2	15:AP:98:VAL:CG1	2.05	0.87
19:AT:59:ILE:HD12	19:AT:72:ARG:O	1.74	0.87
24:BA:2886:G:O2'	51:B4:31:VAL:HB	1.73	0.87
52:B5:19:ARG:HH12	52:B5:41:PRO:CG	1.88	0.87
53:B6:43:THR:N	53:B6:44:PRO:HD2	1.89	0.87
54:B7:22:VAL:HG12	54:B7:23:VAL:N	1.89	0.87
24:BA:1176:G:H2'	24:BA:1177:A:H5'	1.56	0.87
24:BA:187:G:H2'	24:BA:1365:A:H2	1.38	0.87
24:BA:1786:A:O2'	24:BA:1787:A:H5'	1.75	0.87
24:BA:1838:C:H2'	24:BA:1898:U:C4	2.10	0.87
3:AB:75:C:O2	24:BA:2508:G:H5'	1.75	0.87
24:BA:2544:G:H2'	24:BA:2545:G:O4'	1.75	0.87
24:BA:586:A:H5'	29:BF:89:VAL:CG2	2.02	0.87
24:BA:88:G:H5'	24:BA:89:G:OP2	1.75	0.87
25:BB:43:C:H6	25:BB:43:C:O5'	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:252:TRP:H	27:BD:255:LYS:NZ	1.73	0.87
29:BF:41:LEU:O	29:BF:44:ARG:HG3	1.75	0.87
30:BG:75:LYS:CG	30:BG:84:LYS:HB2	2.05	0.87
25:BB:42:C:C2	30:BG:93:THR:HB	2.10	0.87
35:BN:19:ILE:O	35:BN:19:ILE:HD12	1.75	0.87
39:BR:62:LYS:C	39:BR:64:GLU:H	1.77	0.87
40:BS:51:ARG:C	40:BS:66:VAL:HG12	1.95	0.87
40:BS:65:LYS:HD3	40:BS:75:ILE:HD13	1.56	0.87
41:BT:65:ILE:CD1	41:BT:96:ALA:HB2	2.04	0.87
43:BV:74:ALA:CB	43:BV:105:VAL:HG23	2.04	0.87
37:BP:137:TYR:OH	46:BY:124:ILE:HD11	1.73	0.87
26:BC:6:ARG:HD2	26:BC:6:ARG:C	1.95	0.87
1:AA:1160:G:N3	1:AA:1160:G:H2'	1.89	0.87
1:AA:1399:C:N4	1:AA:1502:A:N7	2.22	0.87
1:AA:299:G:H2'	1:AA:300:A:N7	1.89	0.87
1:AA:713:G:H21	1:AA:777:A:C1'	1.88	0.87
1:AA:944:G:H21	1:AA:1339:A:N6	1.72	0.87
3:AC:60:U:H5'	3:AC:61:C:OP2	1.75	0.87
5:AF:156:ARG:HB3	5:AF:193:TYR:HD1	1.39	0.87
10:AK:37:ARG:HD2	10:AK:38:ILE:HD13	1.55	0.87
15:AP:97:PRO:CG	15:AP:103:THR:HG22	2.03	0.87
52:B5:50:ARG:CZ	52:B5:52:VAL:HG21	2.05	0.87
24:BA:1695:G:H2'	24:BA:1696:G:H5'	1.57	0.87
24:BA:1789:A:H3'	24:BA:1790:C:O4'	1.73	0.87
24:BA:2064:C:H1'	24:BA:2450:A:H62	1.37	0.87
24:BA:2213:U:O2	24:BA:2213:U:H3'	1.75	0.87
24:BA:2239:G:C3'	24:BA:2240:C:H5''	2.03	0.87
24:BA:450:G:H5''	24:BA:451:C:OP2	1.73	0.87
24:BA:28:A:H1'	24:BA:513:A:C2	2.09	0.87
24:BA:557:U:O2'	34:BM:112:LEU:HD11	1.74	0.87
24:BA:64:A:C2'	24:BA:65:C:H5'	2.05	0.87
24:BA:931:G:H3'	24:BA:932:G:O4'	1.74	0.87
25:BB:78:A:C5	25:BB:99:A:N6	2.43	0.87
27:BD:117:VAL:HG22	27:BD:126:GLN:HE21	1.40	0.87
24:BA:764:A:H1'	27:BD:214:TRP:CD1	2.10	0.87
27:BD:80:ALA:HB3	27:BD:94:LEU:O	1.73	0.87
31:BH:111:HIS:O	31:BH:113:VAL:HG23	1.73	0.87
34:BM:96:GLU:O	34:BM:100:GLU:HG2	1.73	0.87
35:BN:96:THR:O	35:BN:97:ARG:HB3	1.74	0.87
37:BP:56:ARG:CZ	37:BP:57:HIS:HB2	2.05	0.87
42:BU:62:LEU:HB2	42:BU:64:HIS:CE1	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:57:ILE:HG12	46:BY:70:LEU:CB	2.01	0.87
47:BZ:49:LYS:H	47:BZ:80:HIS:CE1	1.92	0.87
26:BC:64:LEU:CD1	26:BC:161:ILE:HG12	2.05	0.87
24:BA:182:A:H2'	24:BA:183:C:C6	2.09	0.87
1:AA:66:G:H4'	1:AA:173:U:C5	2.10	0.86
1:AA:197:A:N6	1:AA:221:C:H5'	1.90	0.86
1:AA:520:A:N6	1:AA:529:G:H21	1.73	0.86
1:AA:598:U:H4'	10:AK:94:TYR:CD2	2.09	0.86
4:AE:219:VAL:O	4:AE:223:ILE:HG13	1.75	0.86
11:AL:50:LEU:HD22	11:AL:51:ARG:HH12	1.40	0.86
13:AN:95:ILE:HA	13:AN:98:LEU:HG	1.54	0.86
1:AA:551:U:H5'	14:AO:119:LYS:HZ1	1.36	0.86
24:BA:1339:G:H5'	44:BW:16:LYS:HD3	1.54	0.86
24:BA:1406:U:H2'	24:BA:1407:C:H6	1.37	0.86
24:BA:1444:G:H3'	24:BA:1445:C:C5	2.09	0.86
24:BA:1524:G:H2'	24:BA:1525:G:H8	1.37	0.86
24:BA:1969:A:H4'	24:BA:1970:A:H5'	1.55	0.86
24:BA:511:U:H5	24:BA:512:G:N3	1.71	0.86
24:BA:670:A:H2'	36:BO:41:ARG:NH1	1.89	0.86
24:BA:948:G:C1'	24:BA:984:A:C2	2.58	0.86
28:BE:8:LYS:HD3	28:BE:9:VAL:N	1.90	0.86
30:BG:118:ARG:CG	30:BG:119:GLY:H	1.87	0.86
30:BG:47:LYS:HD2	30:BG:49:ASP:OD2	1.74	0.86
33:BL:7:VAL:HG12	33:BL:58:THR:CG2	2.01	0.86
34:BM:86:PRO:O	34:BM:89:LYS:HE3	1.74	0.86
36:BO:81:GLN:HA	36:BO:86:LYS:HE3	1.56	0.86
38:BQ:97:VAL:HG13	38:BQ:114:VAL:HG21	1.56	0.86
41:BT:111:GLU:HA	41:BT:114:LYS:CE	2.05	0.86
41:BT:8:VAL:O	41:BT:11:ARG:HG2	1.75	0.86
42:BU:68:LYS:O	42:BU:69:LYS:HB2	1.71	0.86
45:BX:14:LEU:HD13	45:BX:20:TYR:C	1.95	0.86
47:BZ:21:LEU:HG	47:BZ:22:GLY:H	1.40	0.86
1:AA:164:U:H2'	1:AA:165:C:H5	1.38	0.86
1:AA:1163:C:O2'	1:AA:1164:G:H5'	1.75	0.86
1:AA:1192:C:C6	1:AA:1192:C:H3'	2.09	0.86
1:AA:1454:G:H2'	1:AA:1455:G:H8	1.37	0.86
1:AA:21:G:H2'	1:AA:22:G:C8	2.10	0.86
1:AA:309:G:O2'	1:AA:310:G:H5'	1.75	0.86
1:AA:47:C:H4'	1:AA:48:C:C5'	2.04	0.86
1:AA:557:G:H3'	1:AA:558:G:C8	2.09	0.86
1:AA:851:G:N2	1:AA:852:G:H1'	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:975:A:O2'	1:AA:976:G:OP2	1.91	0.86
1:AA:878:G:C5'	10:AK:89:PRO:HG2	2.04	0.86
11:AL:55:ALA:HB1	11:AL:58:HIS:ND1	1.90	0.86
13:AN:99:GLN:HB3	13:AN:105:VAL:HG11	1.56	0.86
19:AT:45:HIS:O	19:AT:73:VAL:HG23	1.75	0.86
54:B7:7:HIS:HB2	54:B7:8:LYS:NZ	1.91	0.86
24:BA:1491:G:C2'	24:BA:1492:G:H4'	2.05	0.86
24:BA:2207:C:H2'	24:BA:2208:U:H4'	1.57	0.86
24:BA:2286:A:N6	52:B5:32:ASN:N	2.23	0.86
24:BA:2581:G:N1	24:BA:2610:C:C6	2.42	0.86
24:BA:1265:A:OP2	24:BA:2615:U:OP1	1.93	0.86
24:BA:392:C:H2'	24:BA:393:C:C6	2.10	0.86
24:BA:775:G:H2'	24:BA:794:G:C5	2.09	0.86
25:BB:88:C:N4	25:BB:89:G:N3	2.23	0.86
29:BF:130:ALA:CB	29:BF:142:TRP:HB2	1.99	0.86
29:BF:4:VAL:O	29:BF:20:LEU:HD13	1.72	0.86
31:BH:103:LEU:HB2	31:BH:115:VAL:CB	2.05	0.86
24:BA:2746:U:H5'	31:BH:139:GLN:HA	1.54	0.86
34:BM:23:LEU:CD1	34:BM:63:THR:N	2.38	0.86
34:BM:68:GLU:H	34:BM:70:LYS:NZ	1.72	0.86
35:BN:24:VAL:HG13	35:BN:30:ALA:HB1	1.56	0.86
36:BO:76:LYS:O	36:BO:115:LEU:HB2	1.75	0.86
37:BP:81:VAL:HG12	37:BP:82:ARG:N	1.90	0.86
32:BK:81:VAL:CB	32:BK:88:ILE:HG12	2.04	0.86
24:BA:2161:C:H2'	24:BA:2162:G:C8	2.09	0.86
43:BV:95:ILE:H	43:BV:95:ILE:HD12	1.38	0.86
1:AA:1336:C:H4'	1:AA:1337:G:C2	2.10	0.86
1:AA:731:G:H2'	1:AA:732:C:H6	1.39	0.86
1:AA:797:C:O2'	1:AA:798:G:H5'	1.76	0.86
3:AB:33:U:C2	3:AB:35:A:H5''	2.09	0.86
4:AE:134:GLU:O	4:AE:138:LEU:HG	1.74	0.86
6:AG:26:CYS:O	6:AG:33:MET:HG3	1.75	0.86
7:AH:78:HIS:CB	10:AK:107:LEU:HD21	2.04	0.86
16:AQ:26:ARG:HB2	16:AQ:43:CYS:HB2	1.54	0.86
52:B5:19:ARG:O	52:B5:43:CYS:SG	2.33	0.86
24:BA:1255:U:C5'	24:BA:1256:G:H5''	2.04	0.86
24:BA:1799:G:H1	27:BD:157:ARG:NH1	1.73	0.86
24:BA:2570:G:H5'	24:BA:2571:C:OP2	1.75	0.86
24:BA:546:C:H2'	24:BA:547:A:C8	2.10	0.86
24:BA:740:U:O2'	24:BA:741:G:P	2.33	0.86
24:BA:869:G:H2'	24:BA:870:A:C5'	2.01	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:974:G:H3'	24:BA:974(A):C:C5'	2.04	0.86
25:BB:50:G:H4'	39:BR:61:ASN:OD1	1.73	0.86
25:BB:7:G:H4'	39:BR:29:PHE:HE2	1.37	0.86
28:BE:173:VAL:HG22	28:BE:174:ASP:N	1.90	0.86
30:BG:39:ILE:HG23	30:BG:157:ILE:CB	2.05	0.86
34:BM:19:GLU:HB2	34:BM:56:ASN:CB	2.05	0.86
39:BR:3:ARG:HG2	39:BR:4:LEU:N	1.89	0.86
41:BT:111:GLU:HA	41:BT:114:LYS:HZ1	1.39	0.86
44:BW:39:ILE:HG21	44:BW:54:VAL:HG13	1.57	0.86
45:BX:82:PRO:CD	45:BX:97:ARG:H	1.87	0.86
32:BK:129:THR:HB	32:BK:139:GLN:OE1	1.74	0.86
1:AA:1400:C:H4'	1:AA:1401:G:OP2	1.75	0.86
4:AE:74:LYS:CE	4:AE:76:GLN:HB2	2.04	0.86
1:AA:1342:C:H4'	11:AL:125:TYR:HB2	1.57	0.86
11:AL:25:LYS:O	11:AL:61:ALA:HB3	1.73	0.86
1:AA:43:C:C5'	18:AS:12:LYS:HB3	2.01	0.86
20:AU:73:ALA:O	20:AU:79:LEU:HD11	1.73	0.86
24:BA:1341:U:H2'	24:BA:1341:U:O2	1.74	0.86
24:BA:1513:C:C4	24:BA:1514:U:O4	2.28	0.86
24:BA:1687:G:C6	24:BA:1688:U:H5	1.92	0.86
24:BA:2010:G:H2'	24:BA:2011:U:H5'	1.57	0.86
24:BA:2061:G:O2'	24:BA:2062:A:H5''	1.76	0.86
24:BA:2456:C:O2'	24:BA:2457:U:H5'	1.75	0.86
24:BA:2656:U:O2	24:BA:2656:U:H2'	1.73	0.86
24:BA:2712:U:C2'	24:BA:2712(A):A:H5''	2.05	0.86
24:BA:2711:A:H5'	24:BA:2712:U:H5'	1.55	0.86
24:BA:628:G:H8	24:BA:628:G:O5'	1.56	0.86
25:BB:27:C:N4	25:BB:56:G:N1	2.24	0.86
27:BD:202:LYS:HD2	27:BD:202:LYS:N	1.83	0.86
34:BM:109:LYS:HZ2	34:BM:110:GLY:H	1.18	0.86
34:BM:46:VAL:CG1	34:BM:47:ALA:H	1.70	0.86
34:BM:70:LYS:HD2	34:BM:86:PRO:HG3	1.57	0.86
35:BN:70:LYS:NZ	35:BN:102:VAL:HG13	1.89	0.86
37:BP:35:VAL:HG23	37:BP:101:ARG:O	1.76	0.86
40:BS:34:VAL:HG11	40:BS:78:LEU:HD11	1.56	0.86
45:BX:12:THR:HG21	45:BX:71:LYS:C	1.95	0.86
24:BA:1581:G:H2'	24:BA:1582:C:O4'	1.73	0.86
1:AA:907:A:H2'	1:AA:908:A:H8	1.40	0.86
3:AB:52:G:O4'	24:BA:2471:C:C5'	2.22	0.86
4:AE:115:LEU:HD23	4:AE:149:LEU:HD22	1.56	0.86
1:AA:6:G:H1	7:AH:96:PRO:HG2	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:95:GLU:H	8:AI:96:PRO:CD	1.88	0.86
9:AJ:29:LYS:HD2	9:AJ:101:LEU:HD22	1.57	0.86
9:AJ:31:MET:HG2	9:AJ:32:ARG:H	1.40	0.86
11:AL:4:TYR:HE1	11:AL:59:PHE:HE2	1.22	0.86
22:AW:83:ARG:O	22:AW:86:ARG:HG2	1.75	0.86
24:BA:1802:A:H2'	24:BA:1802:A:N3	1.87	0.86
24:BA:269:U:H3	24:BA:270:A:N6	1.74	0.86
24:BA:270(Z):U:N3	24:BA:271(C):U:H1'	1.90	0.86
24:BA:247:G:H5'	24:BA:386:G:H3'	1.57	0.86
24:BA:503:A:H4'	24:BA:504:U:C5'	2.05	0.86
24:BA:853:G:H2'	24:BA:854:G:C8	2.09	0.86
24:BA:943:U:OP1	24:BA:943:U:O4'	1.92	0.86
28:BE:58:ARG:HB2	28:BE:58:ARG:NH2	1.90	0.86
29:BF:40:GLN:O	29:BF:44:ARG:HG2	1.75	0.86
30:BG:41:GLN:HE22	30:BG:155:MET:CG	1.87	0.86
37:BP:22:LYS:HD2	37:BP:99:PRO:CG	2.04	0.86
41:BT:59:ARG:HA	41:BT:62:ILE:HD12	1.54	0.86
3:AD:23:A:H2'	3:AD:24:G:H8	1.39	0.86
33:BL:48:MET:O	33:BL:53:VAL:HG21	1.75	0.86
1:AA:1068:G:O2'	1:AA:1069:C:H5'	1.75	0.86
8:AI:7:ASN:ND2	8:AI:62:TRP:HD1	1.73	0.86
13:AN:80:VAL:O	13:AN:106:LYS:HB3	1.75	0.86
22:AW:56:MET:HG2	22:AW:88:VAL:HG21	1.55	0.86
22:AW:89:ARG:O	22:AW:93:GLU:HG3	1.74	0.86
50:B3:5:ILE:CG2	50:B3:57:GLU:HB2	2.06	0.86
54:B7:5:LYS:HB3	54:B7:60:LEU:HA	1.56	0.86
24:BA:2056:G:N2	51:B4:4:HIS:HD2	1.70	0.86
24:BA:2399:G:C2	24:BA:2400:G:H1'	2.11	0.86
24:BA:270(I):G:N3	24:BA:270(J):G:H1'	1.89	0.86
24:BA:2712:U:H3'	24:BA:2714:G:OP2	1.75	0.86
24:BA:851:U:H5''	49:B2:49:LYS:HD2	1.58	0.86
28:BE:44:TYR:HB3	28:BE:82:ARG:HH11	1.41	0.86
36:BO:108:LYS:HD3	36:BO:109:GLY:H	1.40	0.86
36:BO:45:LEU:HD13	54:B7:59:LYS:HE3	1.57	0.86
46:BY:122:ARG:HG2	46:BY:171:ILE:HA	1.56	0.86
3:AD:18:G:H4'	3:AD:60:U:N3	1.90	0.86
26:BC:182:PRO:HG2	26:BC:183:GLU:OE2	1.76	0.86
26:BC:64:LEU:HB3	26:BC:188:ASN:CG	1.96	0.86
24:BA:1418:G:H1'	24:BA:1581:G:H21	1.38	0.86
24:BA:1579:A:N6	24:BA:1581:G:N2	2.24	0.86
1:AA:38:G:N2	1:AA:397:A:C5	2.43	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:65:U:H4'	1:AA:66:G:C5'	2.06	0.86
4:AE:145:LEU:O	4:AE:149:LEU:HB2	1.75	0.86
10:AK:111:ILE:HD12	10:AK:111:ILE:N	1.91	0.86
18:AS:35:LYS:NZ	18:AS:37:GLY:H	1.73	0.86
20:AU:70:ILE:HG22	20:AU:74:ARG:NE	1.89	0.86
24:BA:1655:A:H61	24:BA:2005:A:H1'	1.41	0.86
24:BA:1790:C:H2'	24:BA:1791:A:N7	1.90	0.86
24:BA:2369:A:H2'	24:BA:2370:G:H8	1.39	0.86
24:BA:2447:G:H8	24:BA:2500:U:C3'	1.73	0.86
24:BA:2749:A:C5	24:BA:2750:A:N7	2.43	0.86
24:BA:2900:A:H2'	24:BA:2901:C:C6	2.09	0.86
24:BA:319:C:H2'	24:BA:320:A:C8	2.11	0.86
24:BA:587:C:C5	36:BO:30:THR:HG21	2.11	0.86
24:BA:705:A:N3	24:BA:705:A:H2'	1.91	0.86
24:BA:746:A:N7	24:BA:2612:C:P	2.48	0.86
24:BA:957:A:O3'	24:BA:958:U:H4'	1.74	0.86
27:BD:252:TRP:H	27:BD:255:LYS:HZ1	1.20	0.86
29:BF:108:LYS:O	29:BF:111:ALA:HB3	1.75	0.86
34:BM:128:HIS:N	34:BM:129:PRO:HD2	1.90	0.86
34:BM:127:ASP:H	34:BM:129:PRO:HD2	1.37	0.86
34:BM:99:LEU:HD12	34:BM:100:GLU:N	1.89	0.86
32:BK:59:ALA:HA	32:BK:62:LYS:HD2	1.54	0.86
1:AA:1516:G:H22	1:AA:1518:A:H3'	1.41	0.86
1:AA:761:G:H5'	19:AT:103:GLY:H	1.41	0.86
4:AE:82:ARG:HA	4:AE:92:TYR:CE1	2.11	0.86
7:AH:105:VAL:HG11	7:AH:131:ILE:HG22	1.58	0.86
9:AJ:99:LEU:O	9:AJ:103:TRP:HB2	1.76	0.86
9:AJ:15:ASP:CG	9:AJ:23:VAL:HG11	1.96	0.86
1:AA:1226:C:C6	15:AP:104:ARG:HA	2.11	0.86
1:AA:266:G:H2'	19:AT:67:LYS:NZ	1.91	0.86
20:AU:45:SER:HB3	20:AU:51:LEU:HD11	1.56	0.86
13:AN:110:ASP:HB2	20:AU:88:LYS:CB	2.05	0.86
21:AV:16:LEU:HD12	21:AV:44:MET:HE1	1.56	0.86
24:BA:1202:C:H2'	24:BA:1203:G:H4'	1.57	0.86
24:BA:1308:A:C2	24:BA:1309:G:H1'	2.10	0.86
24:BA:1527:G:H1'	24:BA:1528:A:N3	1.91	0.86
24:BA:1527:G:H1'	24:BA:1528:A:C2	2.09	0.86
27:BD:76:PRO:HA	27:BD:118:VAL:CG2	2.05	0.86
27:BD:227:ASN:O	27:BD:229:VAL:HG12	1.75	0.86
28:BE:158:GLY:O	28:BE:160:TYR:HD1	1.59	0.86
29:BF:74:ARG:NE	29:BF:75:HIS:N	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:47:ILE:HD11	35:BN:52:VAL:HG13	1.57	0.86
38:BQ:38:VAL:HB	38:BQ:39:PRO:CD	2.06	0.86
39:BR:106:ARG:HH22	39:BR:110:LEU:HD13	1.39	0.86
46:BY:111:VAL:CG2	46:BY:117:LEU:HG	2.06	0.86
32:BK:93:THR:CG2	32:BK:96:ASP:H	1.88	0.86
3:AD:23:A:H2'	3:AD:24:G:C8	2.10	0.86
3:AD:58:A:H2'	3:AD:61:C:C4	2.11	0.86
1:AA:1490:C:C2'	1:AA:1491:G:H5'	2.05	0.86
1:AA:20:U:H5'	1:AA:572:A:H61	1.38	0.86
9:AJ:45:ASP:HA	9:AJ:48:LYS:NZ	1.90	0.86
1:AA:37:U:OP2	14:AO:123:LYS:HD2	1.76	0.86
52:B5:33:LYS:HE2	52:B5:34:LEU:N	1.91	0.86
24:BA:2027:G:H2'	24:BA:2028:U:H6	1.41	0.86
24:BA:2226:C:H2'	24:BA:2226:C:O2	1.76	0.86
24:BA:270(B):A:H1'	24:BA:270(C):C:C5	2.11	0.86
27:BD:226:MET:HE1	27:BD:237:GLU:O	1.76	0.86
27:BD:27:THR:HG22	27:BD:29:PRO:HD2	1.56	0.86
24:BA:1257:C:H4'	29:BF:83:PHE:CD1	2.11	0.86
24:BA:1275:A:N3	38:BQ:12:ARG:NH2	2.24	0.86
41:BT:102:GLU:HB3	41:BT:105:VAL:HB	1.58	0.86
43:BV:47:VAL:O	43:BV:51:LEU:HD13	1.76	0.86
1:AA:800:G:O5'	1:AA:800:G:H8	1.59	0.86
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.41	0.86
1:AA:529:G:H3'	1:AA:529:G:C8	2.10	0.86
1:AA:684:A:H2'	1:AA:685:G:C8	2.11	0.86
1:AA:713:G:H2'	1:AA:714:G:C8	2.11	0.86
4:AE:46:LYS:HE2	4:AE:46:LYS:HA	1.56	0.86
6:AG:59:ARG:C	6:AG:63:LYS:HZ2	1.79	0.86
10:AK:97:VAL:HG22	10:AK:98:LYS:H	1.41	0.86
24:BA:1934:C:C5'	24:BA:1974:C:H4'	2.06	0.86
24:BA:2209:C:C2'	24:BA:2210:G:H3'	2.05	0.86
24:BA:2332:U:C4'	24:BA:2336:A:N6	2.36	0.86
24:BA:2447:G:N7	24:BA:2500:U:C2'	2.39	0.86
24:BA:2748:A:H1'	31:BH:67:LEU:CD2	2.06	0.86
24:BA:389:G:C8	24:BA:2413:G:H4'	2.11	0.86
24:BA:39:C:H2'	24:BA:40:C:C6	2.11	0.86
24:BA:725:G:H2'	24:BA:726:G:O4'	1.76	0.86
24:BA:889:C:H2'	24:BA:890:A:O4'	1.76	0.86
27:BD:181:GLU:CA	27:BD:270:ILE:HD12	2.05	0.86
27:BD:8:PRO:O	27:BD:25:THR:CA	2.17	0.86
30:BG:173:LEU:HD12	30:BG:176:LEU:HD12	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:11:VAL:HG23	31:BH:50:VAL:HG21	1.55	0.86
32:BK:5:LEU:HB2	32:BK:8:PRO:CD	2.06	0.86
39:BR:26:LEU:O	39:BR:88:ASP:HB2	1.74	0.86
42:BU:18:LEU:HB2	42:BU:66:ARG:HH22	1.39	0.86
24:BA:2009:G:OP1	43:BV:41:LYS:HD2	1.75	0.86
24:BA:273(B):C:H2'	24:BA:273(C):C:C6	2.11	0.86
1:AA:1058:G:H2'	1:AA:1059:C:O4'	1.76	0.85
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.11	0.85
1:AA:607:A:H2'	1:AA:608:A:O4'	1.75	0.85
4:AE:187:LEU:HD21	4:AE:203:GLY:O	1.76	0.85
4:AE:61:LEU:HD23	4:AE:62:ALA:N	1.91	0.85
9:AJ:74:GLU:O	9:AJ:88:PRO:HA	1.75	0.85
10:AK:26:VAL:HG22	10:AK:27:PRO:CD	2.06	0.85
1:AA:562:C:O2'	14:AO:15:ARG:HD3	1.76	0.85
17:AR:53:HIS:O	17:AR:57:LEU:HD13	1.76	0.85
19:AT:43:LEU:O	19:AT:43:LEU:HD13	1.75	0.85
20:AU:68:LYS:O	20:AU:71:LYS:HB2	1.74	0.85
13:AN:110:ASP:HB2	20:AU:88:LYS:HB2	1.56	0.85
24:BA:1534:G:H21	24:BA:1537:C:H5	1.21	0.85
24:BA:2453:A:H4'	24:BA:2572:A:O2'	1.76	0.85
24:BA:429:A:H2'	24:BA:430:G:C8	2.11	0.85
24:BA:587:C:H5	36:BO:30:THR:HG21	1.41	0.85
24:BA:84:A:H5''	45:BX:8:LYS:HG3	1.56	0.85
29:BF:36:VAL:HG11	29:BF:183:VAL:CB	2.04	0.85
39:BR:16:ASN:O	39:BR:20:ARG:HG2	1.74	0.85
41:BT:53:ARG:HA	41:BT:56:ASP:CG	1.95	0.85
42:BU:9:GLY:O	42:BU:10:LYS:HB2	1.76	0.85
24:BA:2138:C:H2'	24:BA:2139:C:C6	2.10	0.85
1:AA:722:A:H2'	1:AA:724:G:C8	2.10	0.85
1:AA:854:G:H3'	1:AA:871:U:O4	1.76	0.85
10:AK:103:VAL:HB	10:AK:108:GLY:HA3	1.58	0.85
10:AK:12:ARG:HD3	10:AK:26:VAL:HG22	1.57	0.85
1:AA:728:A:H8	17:AR:54:ARG:CZ	1.88	0.85
18:AS:55:ARG:HE	18:AS:55:ARG:HA	1.41	0.85
21:AV:11:VAL:HG22	21:AV:39:THR:HB	1.58	0.85
50:B3:41:PRO:HB3	50:B3:58:ARG:HD2	1.56	0.85
53:B6:20:ALA:HA	53:B6:23:ARG:HD2	1.55	0.85
24:BA:242:G:C3'	54:B7:4:MET:HG3	2.06	0.85
24:BA:1742:C:H3'	24:BA:1743:G:H5''	1.58	0.85
24:BA:858:U:H2'	24:BA:2268:A:C8	2.11	0.85
24:BA:365:C:H2'	24:BA:366:C:H6	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:586:A:C2	24:BA:809:G:N2	2.43	0.85
24:BA:775:G:H5'	24:BA:777:A:H1'	1.59	0.85
27:BD:108:PRO:HA	27:BD:195:ALA:O	1.76	0.85
28:BE:101:ARG:HH21	28:BE:171:GLU:HG2	1.40	0.85
29:BF:63:LYS:HA	29:BF:76:GLY:O	1.75	0.85
30:BG:47:LYS:CE	30:BG:73:ALA:HB3	2.04	0.85
32:BK:21:VAL:CB	32:BK:26:ALA:HB2	2.05	0.85
35:BN:12:ASP:OD2	35:BN:85:VAL:N	2.08	0.85
36:BO:72:PRO:HG3	36:BO:110:TYR:CD2	2.12	0.85
38:BQ:8:ARG:NE	38:BQ:10:LEU:HD11	1.91	0.85
39:BR:62:LYS:C	39:BR:64:GLU:N	2.21	0.85
42:BU:49:THR:CB	42:BU:50:PRO:HD2	2.04	0.85
46:BY:78:LYS:HE2	46:BY:84:GLU:OE2	1.75	0.85
1:AA:522:C:H5''	14:AO:120:TYR:OH	1.76	0.85
1:AA:901:A:C2	1:AA:902:G:C1'	2.57	0.85
5:AF:191:THR:OG1	5:AF:196:LEU:HD11	1.75	0.85
48:B1:33:GLN:O	48:B1:35:SER:N	2.08	0.85
53:B6:20:ALA:HB3	53:B6:21:ARG:NH2	1.91	0.85
24:BA:1448:G:H4'	24:BA:1543:A:N6	1.91	0.85
24:BA:2065:C:H2'	24:BA:2066:C:O4'	1.76	0.85
24:BA:280:C:N4	24:BA:283:A:H62	1.73	0.85
24:BA:326:G:H2'	24:BA:327:G:C8	2.10	0.85
24:BA:729:G:C4	24:BA:730:C:H1'	2.11	0.85
24:BA:976:C:O2'	24:BA:977:G:H5'	1.76	0.85
27:BD:112:GLN:H	27:BD:115:GLN:NE2	1.74	0.85
24:BA:1788:C:H2'	27:BD:222:ARG:CZ	2.06	0.85
24:BA:1902:C:H5'	27:BD:244:ARG:NE	1.91	0.85
28:BE:127:ASP:HB2	28:BE:135:HIS:CA	2.07	0.85
28:BE:136:ARG:O	28:BE:137:HIS:ND1	2.09	0.85
28:BE:195:LEU:HD13	28:BE:196:VAL:H	1.38	0.85
29:BF:36:VAL:HG21	29:BF:183:VAL:CG2	2.06	0.85
24:BA:1081:U:H5''	33:BL:122:ALA:HA	1.56	0.85
36:BO:122:PRO:HG3	36:BO:137:LYS:C	1.97	0.85
36:BO:138:LEU:HD21	36:BO:145:PRO:HD3	1.58	0.85
36:BO:91:PHE:O	36:BO:95:VAL:HB	1.75	0.85
43:BV:55:ALA:O	43:BV:58:ALA:HB3	1.76	0.85
47:BZ:21:LEU:HD12	47:BZ:39:ARG:HB3	1.59	0.85
47:BZ:37:LEU:HD11	47:BZ:59:LEU:HB3	1.55	0.85
47:BZ:68:GLU:OE2	47:BZ:82:ARG:HB2	1.74	0.85
3:AD:58:A:H2'	3:AD:61:C:C5	2.11	0.85
1:AA:1516:G:N2	1:AA:1518:A:H3'	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:88:LYS:HZ2	10:AK:88:LYS:H	1.23	0.85
1:AA:363:A:N7	14:AO:30:ALA:HB1	1.91	0.85
21:AV:5:LEU:CD1	21:AV:9:VAL:HG13	2.07	0.85
48:B1:45:ILE:HG13	48:B1:46:ARG:H	1.41	0.85
49:B2:26:LEU:HG	49:B2:35:ARG:NH1	1.92	0.85
49:B2:7:LYS:O	49:B2:54:VAL:HG23	1.76	0.85
55:B8:10:ILE:HD11	55:B8:34:GLN:HE21	1.41	0.85
24:BA:1526:G:H5''	24:BA:1527:G:OP1	1.76	0.85
24:BA:1567:A:H4'	24:BA:1568:G:C2	2.10	0.85
24:BA:1662:C:H2'	24:BA:1663:C:C6	2.11	0.85
24:BA:1667:G:N2	24:BA:1991:U:C4	2.44	0.85
24:BA:530:G:H22	24:BA:2021:C:H3'	1.41	0.85
24:BA:2246:G:H2'	24:BA:2247:A:C8	2.11	0.85
24:BA:2447:G:O2'	24:BA:2448:A:OP2	1.93	0.85
24:BA:2539:C:O2'	24:BA:2540:C:H5'	1.76	0.85
24:BA:764:A:N6	24:BA:1776:G:H1'	1.91	0.85
28:BE:196:VAL:HG12	28:BE:197:ILE:N	1.91	0.85
28:BE:200:GLU:HB3	28:BE:202:LYS:HZ3	1.41	0.85
30:BG:92:VAL:HG11	30:BG:94:LEU:HD22	1.58	0.85
34:BM:116:LEU:HD23	34:BM:116:LEU:O	1.76	0.85
35:BN:10:VAL:CG1	35:BN:17:ARG:HA	2.06	0.85
35:BN:68:GLU:HG3	35:BN:68:GLU:O	1.73	0.85
36:BO:88:LEU:HD11	36:BO:124:LYS:HZ1	1.40	0.85
43:BV:11:ARG:HB2	43:BV:98:LYS:CE	2.05	0.85
32:BK:130:TYR:O	32:BK:132:PRO:HD3	1.76	0.85
26:BC:177:LYS:HB2	26:BC:180:PHE:HB2	1.57	0.85
1:AA:1163:C:C2'	1:AA:1164:G:H5'	2.07	0.85
1:AA:389:A:C6	1:AA:390:C:H1'	2.10	0.85
4:AE:95:GLN:NE2	4:AE:148:TYR:HB3	1.91	0.85
4:AE:167:PRO:O	4:AE:169:LYS:N	2.09	0.85
4:AE:217:ARG:O	4:AE:220:ASP:HB2	1.76	0.85
22:AW:63:ILE:HD13	22:AW:80:ARG:HB3	1.56	0.85
23:AX:9:ARG:HH12	23:AX:21:TYR:HD2	1.21	0.85
1:AA:1286:A:H5'	23:AX:25:LYS:CG	2.06	0.85
53:B6:43:THR:O	53:B6:46:VAL:N	2.09	0.85
24:BA:1476:C:N4	24:BA:1517:G:C8	2.44	0.85
24:BA:1351:C:O2'	24:BA:1571:A:H1'	1.77	0.85
24:BA:259:G:H2'	24:BA:260:G:C8	2.08	0.85
27:BD:106:ILE:HG13	27:BD:108:PRO:HD3	1.58	0.85
24:BA:1820:U:C2'	27:BD:202:LYS:HG3	2.06	0.85
27:BD:72:LYS:O	27:BD:74:GLY:N	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:122:ALA:O	33:BL:126:MET:HG3	1.76	0.85
34:BM:35:ARG:N	34:BM:49:GLY:HA2	1.91	0.85
38:BQ:97:VAL:HA	38:BQ:114:VAL:HG22	1.55	0.85
24:BA:2020:A:OP2	41:BT:27:LEU:HD13	1.76	0.85
46:BY:73:GLN:O	46:BY:87:ASP:HB2	1.77	0.85
32:BK:115:ALA:HB2	32:BK:129:THR:O	1.75	0.85
3:AD:40:C:C3'	3:AD:41:C:H5''	2.05	0.85
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.73	0.85
1:AA:1118:C:H5'	11:AL:103:THR:HG23	1.56	0.85
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.12	0.85
5:AF:12:LEU:CD2	16:AQ:57:ARG:HG3	2.05	0.85
7:AH:11:ILE:HB	7:AH:31:LEU:HD22	1.58	0.85
10:AK:95:VAL:CG2	10:AK:133:LEU:HD21	2.07	0.85
12:AM:24:VAL:HA	12:AM:34:VAL:HG21	1.59	0.85
13:AN:78:GLN:O	13:AN:104:GLN:HB3	1.76	0.85
18:AS:3:LYS:HB3	18:AS:3:LYS:NZ	1.91	0.85
18:AS:3:LYS:HB3	18:AS:3:LYS:HZ2	1.38	0.85
19:AT:62:SER:HB3	19:AT:72:ARG:HE	1.40	0.85
21:AV:30:LEU:HA	21:AV:49:ILE:HA	1.58	0.85
22:AW:25:ARG:HG2	22:AW:29:LYS:HE3	1.59	0.85
49:B2:40:THR:HG22	49:B2:42:ALA:H	1.41	0.85
24:BA:1936:A:H5'	24:BA:1937:A:N3	1.92	0.85
24:BA:2075:U:H2'	24:BA:2076:U:H5''	1.56	0.85
24:BA:501:A:O5'	24:BA:501:A:H8	1.59	0.85
24:BA:90:U:O2'	24:BA:91:A:H5''	1.77	0.85
28:BE:101:ARG:HD2	28:BE:169:ASN:HD21	1.42	0.85
33:BL:27:LEU:CD1	33:BL:57:ILE:HD11	2.05	0.85
34:BM:18:ALA:HB3	34:BM:55:VAL:O	1.77	0.85
35:BN:37:ASP:H	35:BN:61:VAL:HB	1.41	0.85
36:BO:45:LEU:HD13	54:B7:59:LYS:NZ	1.91	0.85
37:BP:44:ALA:CA	37:BP:47:ILE:HD12	2.07	0.85
24:BA:1154:G:H5''	41:BT:58:ARG:HD3	1.58	0.85
43:BV:59:VAL:CA	43:BV:63:ASP:HA	2.07	0.85
46:BY:39:VAL:HG21	46:BY:86:VAL:HG23	1.59	0.85
32:BK:93:THR:HG23	32:BK:96:ASP:H	1.38	0.85
1:AA:1378:C:N3	1:AA:1379:G:H1'	1.91	0.85
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.42	0.85
1:AA:310:G:H2'	1:AA:311:C:C6	2.12	0.85
1:AA:610:G:O2'	1:AA:611:A:H5'	1.76	0.85
4:AE:176:GLU:O	4:AE:180:LEU:HG	1.76	0.85
4:AE:54:THR:O	4:AE:58:ILE:HG13	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:60:GLU:CD	6:AG:202:LEU:HD12	1.95	0.85
11:AL:49:PRO:HD3	11:AL:78:LYS:HG2	1.56	0.85
12:AM:10:GLY:HA3	12:AM:94:VAL:HG22	1.57	0.85
1:AA:186(A):C:H1'	22:AW:104:LEU:HD23	1.59	0.85
52:B5:8:LYS:O	52:B5:28:ARG:HB3	1.76	0.85
24:BA:1406:U:H2'	24:BA:1407:C:C6	2.11	0.85
24:BA:2323:G:H2'	24:BA:2324:C:C6	2.11	0.85
24:BA:2493:U:H3'	24:BA:2493:U:C6	2.11	0.85
24:BA:2742:C:OP1	55:B8:2:LYS:HE2	1.75	0.85
24:BA:2881:C:H2'	24:BA:2882:A:C8	2.10	0.85
24:BA:718:A:H3'	24:BA:719:C:H6	1.42	0.85
24:BA:917:A:H2'	24:BA:918:A:H5''	1.58	0.85
28:BE:8:LYS:CA	28:BE:8:LYS:HE2	2.06	0.85
33:BL:10:LEU:CD2	33:BL:57:ILE:HG12	2.06	0.85
35:BN:2:ILE:HG21	35:BN:32:TYR:HB3	1.58	0.85
24:BA:2416:C:C5'	36:BO:59:LEU:HB2	2.05	0.85
37:BP:7:MET:H	37:BP:70:PRO:CG	1.89	0.85
38:BQ:20:LEU:HD13	38:BQ:20:LEU:C	1.97	0.85
41:BT:55:ARG:O	41:BT:58:ARG:HB3	1.75	0.85
45:BX:16:ALA:HB3	45:BX:68:HIS:ND1	1.91	0.85
26:BC:100:ILE:HD11	26:BC:123:VAL:HG22	1.56	0.85
24:BA:1582:C:H3'	24:BA:1583:A:H5''	1.59	0.85
1:AA:1064:G:H1'	1:AA:1066:C:N3	1.91	0.85
1:AA:1129:C:N4	1:AA:1139:G:C6	2.45	0.85
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.11	0.85
1:AA:1298:C:C5	9:AJ:114:ARG:HD3	2.11	0.85
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.77	0.85
1:AA:668:G:H4'	17:AR:48:LYS:O	1.77	0.85
4:AE:78:GLN:HE22	4:AE:96:ARG:HH12	1.25	0.85
9:AJ:29:LYS:HZ3	9:AJ:102:ARG:HB2	1.42	0.85
9:AJ:69:VAL:HG21	9:AJ:104:LEU:HD11	1.58	0.85
10:AK:18:ARG:HG3	10:AK:18:ARG:HH11	1.41	0.85
1:AA:684:A:C4'	13:AN:12:ARG:HH22	1.89	0.85
1:AA:691:G:O6	13:AN:55:LYS:HE2	1.75	0.85
15:AP:14:ARG:HA	15:AP:44:ARG:HA	1.57	0.85
15:AP:23:TYR:CE2	15:AP:70:LEU:HD22	2.12	0.85
18:AS:8:ARG:HH12	18:AS:11:SER:N	1.75	0.85
19:AT:91:ARG:HA	19:AT:94:ASN:HD22	1.40	0.85
49:B2:54:VAL:HG22	49:B2:55:ARG:H	1.38	0.85
54:B7:15:LYS:O	54:B7:22:VAL:HG13	1.75	0.85
24:BA:1222:C:H42	24:BA:1227:A:H61	1.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:189:G:H2'	24:BA:205:G:H22	1.42	0.85
24:BA:1911:U:H2'	24:BA:1912:A:H5'	1.57	0.85
24:BA:2083:G:H2'	24:BA:2084:C:H6	1.35	0.85
24:BA:239:U:H1'	24:BA:259:G:N2	1.90	0.85
24:BA:29:U:H2'	24:BA:30:G:C8	2.10	0.85
24:BA:34:C:H2'	24:BA:455:C:H41	1.40	0.85
24:BA:51:G:H5'	24:BA:52:A:OP1	1.76	0.85
27:BD:234:GLY:N	27:BD:241:PRO:HG2	1.90	0.85
27:BD:232:PRO:HG2	27:BD:247:ALA:HA	1.57	0.85
24:BA:2821:A:H5''	28:BE:110:GLY:HA3	1.58	0.85
35:BN:52:VAL:CG2	35:BN:53:LYS:N	2.39	0.85
35:BN:62:VAL:CG2	35:BN:83:ALA:HA	2.05	0.85
40:BS:44:ASP:O	40:BS:46:GLU:N	2.10	0.85
24:BA:2353:G:H4'	47:BZ:32:ARG:NH2	1.90	0.85
1:AA:1247:U:H2'	1:AA:1248:A:H8	1.42	0.85
1:AA:1347:G:H8	11:AL:107:ARG:HB3	1.42	0.85
1:AA:559:A:H4'	1:AA:560:U:H5'	0.92	0.85
1:AA:952:U:C5'	1:AA:972:C:H41	1.88	0.85
1:AA:983:A:H3'	1:AA:983:A:N3	1.91	0.85
4:AE:69:LEU:HB3	4:AE:162:ILE:HG22	1.56	0.85
13:AN:58:PRO:HB3	13:AN:90:GLY:CA	2.06	0.85
53:B6:21:ARG:HG2	53:B6:31:LEU:CD2	2.06	0.85
24:BA:1353:A:H2'	24:BA:1354:A:C8	2.12	0.85
24:BA:1810:A:H2'	24:BA:1811:G:H5'	1.57	0.85
24:BA:1913:A:C4	24:BA:1918:A:N6	2.44	0.85
24:BA:2405:G:H2'	24:BA:2411:A:H61	1.38	0.85
24:BA:388:G:O5'	50:B3:23:GLU:HB3	1.76	0.85
24:BA:449:A:H2'	24:BA:450:G:O4'	1.77	0.85
24:BA:482:A:N3	24:BA:482:A:H2'	1.88	0.85
24:BA:483:A:O3'	45:BX:48:ALA:HB2	1.77	0.85
29:BF:158:THR:HG21	29:BF:195:ASP:HB2	1.56	0.85
30:BG:32:PRO:HB2	30:BG:163:ALA:HA	1.59	0.85
30:BG:53:LEU:HD23	30:BG:71:THR:N	1.92	0.85
30:BG:57:ALA:HB2	30:BG:68:PRO:O	1.75	0.85
31:BH:126:PRO:HG2	31:BH:132:ARG:HH22	1.41	0.85
34:BM:68:GLU:N	34:BM:70:LYS:HZ1	1.74	0.85
35:BN:64:ARG:NH2	35:BN:64:ARG:HG3	1.89	0.85
35:BN:70:LYS:HZ3	35:BN:102:VAL:HG13	1.42	0.85
35:BN:97:ARG:HB2	35:BN:97:ARG:CZ	2.04	0.85
36:BO:128:HIS:HA	36:BO:147:LEU:CD2	2.06	0.85
37:BP:96:VAL:HG12	37:BP:98:LYS:NZ	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:45:ARG:O	38:BQ:49:ASP:HB2	1.75	0.85
38:BQ:51:LEU:HD21	38:BQ:70:LEU:HD21	1.59	0.85
42:BU:5:VAL:N	42:BU:12:TYR:HD2	1.74	0.85
25:BB:12:C:O4'	47:BZ:74:ARG:NE	2.10	0.85
4:AE:115:LEU:CD2	4:AE:149:LEU:HD13	2.06	0.85
5:AF:150:LYS:HA	5:AF:169:ALA:HB2	1.58	0.85
5:AF:11:ARG:HG3	5:AF:16:ARG:HH21	1.40	0.85
5:AF:33:LEU:O	5:AF:36:ASP:HB3	1.77	0.85
6:AG:18:LYS:HA	6:AG:33:MET:HE2	1.58	0.85
8:AI:98:LEU:HD22	8:AI:101:ALA:HB2	1.57	0.85
9:AJ:69:VAL:HG11	9:AJ:104:LEU:HG	1.58	0.85
10:AK:126:LYS:NZ	10:AK:127:LEU:HD23	1.91	0.85
11:AL:19:LEU:HD21	11:AL:59:PHE:CB	2.01	0.85
21:AV:5:LEU:CB	21:AV:9:VAL:HG22	2.04	0.85
1:AA:186(B):C:H4'	22:AW:89:ARG:NH1	1.92	0.85
24:BA:1241:A:C3'	24:BA:1241:A:N3	2.39	0.85
24:BA:1542:G:H1'	24:BA:1543:A:N1	1.91	0.85
24:BA:2514:U:H2'	24:BA:2515:C:H6	1.41	0.85
24:BA:271(B):G:H5''	24:BA:271(C):U:O4'	1.77	0.85
27:BD:7:LYS:HE2	27:BD:25:THR:HB	1.59	0.85
34:BM:37:LYS:HD2	34:BM:43:THR:HA	1.57	0.85
39:BR:51:ALA:CB	39:BR:73:LEU:HG	2.06	0.85
42:BU:67:GLY:HA2	42:BU:93:GLU:O	1.76	0.85
1:AA:595:G:C8	1:AA:641:U:C4	2.64	0.84
3:AB:55:U:O2	3:AB:55:U:H2'	1.77	0.84
4:AE:91:PRO:HB3	4:AE:152:PHE:CD1	2.12	0.84
6:AG:126:ILE:O	6:AG:149:ALA:HB2	1.76	0.84
6:AG:57:ARG:HG3	6:AG:202:LEU:O	1.77	0.84
7:AH:102:ALA:CB	7:AH:106:PRO:HB2	2.07	0.84
8:AI:50:TYR:OH	20:AU:77:GLY:HA2	1.77	0.84
9:AJ:23:VAL:HG13	9:AJ:43:PHE:CZ	2.12	0.84
12:AM:30:SER:HB3	12:AM:80:LYS:HG3	1.59	0.84
21:AV:13:ASP:HA	21:AV:16:LEU:HB2	1.59	0.84
24:BA:594:U:H5''	54:B7:61:LEU:HD13	1.59	0.84
24:BA:83:G:O6	24:BA:102:G:H1'	1.76	0.84
24:BA:1700:A:H2'	24:BA:1701:A:C5'	2.07	0.84
24:BA:2089:U:H2'	24:BA:2090:G:H8	1.42	0.84
24:BA:576:U:H2'	24:BA:577:G:C8	2.13	0.84
24:BA:704:G:N2	24:BA:726:G:O2'	2.10	0.84
24:BA:806:C:H2'	24:BA:807:U:H6	1.42	0.84
24:BA:878:A:N3	24:BA:879:G:H5''	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:175:LEU:HD22	27:BD:176:ARG:N	1.92	0.84
27:BD:89:SER:O	27:BD:159:ALA:HB2	1.77	0.84
31:BH:125:VAL:HA	31:BH:131:VAL:HG22	1.59	0.84
24:BA:2416:C:OP1	36:BO:59:LEU:CA	2.25	0.84
39:BR:12:PHE:CD1	39:BR:13:ARG:N	2.45	0.84
41:BT:49:HIS:CD2	41:BT:52:ARG:NH2	2.44	0.84
41:BT:91:ASP:O	41:BT:95:LEU:HD21	1.76	0.84
24:BA:2602:A:N3	47:BZ:1:MET:HA	1.92	0.84
26:BC:183:GLU:H	26:BC:183:GLU:CD	1.80	0.84
26:BC:50:ASP:OD1	26:BC:52:ARG:HG2	1.75	0.84
48:B1:4:GLN:HA	48:B1:7:GLU:OE1	1.77	0.84
1:AA:327:A:H4'	1:AA:328:C:OP1	1.77	0.84
1:AA:628:G:H2'	1:AA:629:G:H8	1.42	0.84
4:AE:7:VAL:HG23	4:AE:8:LYS:H	1.42	0.84
5:AF:84:ILE:HG13	5:AF:101:LEU:HD22	1.59	0.84
6:AG:70:ILE:HD12	6:AG:100:ARG:HH21	1.41	0.84
13:AN:84:VAL:HG22	13:AN:109:VAL:O	1.77	0.84
18:AS:4:ILE:N	18:AS:4:ILE:HD13	1.92	0.84
18:AS:53:VAL:O	18:AS:56:ALA:HB3	1.77	0.84
49:B2:17:LYS:HA	49:B2:20:LYS:CE	2.07	0.84
50:B3:21:VAL:HG12	50:B3:22:ILE:N	1.92	0.84
52:B5:19:ARG:NH1	52:B5:43:CYS:CB	2.40	0.84
52:B5:52:VAL:HG12	52:B5:53:LYS:N	1.92	0.84
24:BA:1342:A:H2'	24:BA:1345:C:H41	1.42	0.84
24:BA:1349:A:H2	24:BA:1598:C:N3	1.75	0.84
24:BA:1458:C:H4'	24:BA:1459:G:C8	2.12	0.84
24:BA:2055:C:H2'	24:BA:2504:U:H5'	1.59	0.84
24:BA:2691:C:C4	24:BA:2719:G:N2	2.45	0.84
24:BA:2795:G:H2'	24:BA:2795:G:N3	1.93	0.84
24:BA:472:A:C2'	24:BA:473:G:H5''	2.06	0.84
24:BA:533:G:OP2	41:BT:25:TRP:HB2	1.77	0.84
24:BA:61:G:H2'	24:BA:62:C:C6	2.11	0.84
24:BA:672:C:O5'	36:BO:38:GLN:NE2	2.10	0.84
24:BA:722:A:H2'	24:BA:723:G:H8	1.39	0.84
24:BA:931:G:H21	49:B2:24:LYS:HB3	1.40	0.84
36:BO:55:ARG:HH21	36:BO:55:ARG:HB3	1.40	0.84
37:BP:112:GLU:HA	37:BP:115:MET:CG	2.06	0.84
38:BQ:102:GLU:CD	38:BQ:103:ARG:H	1.80	0.84
38:BQ:59:ASP:O	38:BQ:63:ARG:HG3	1.77	0.84
45:BX:31:LEU:HB3	45:BX:32:PRO:CD	2.07	0.84
24:BA:1113:U:H2'	24:BA:1114:G:C8	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:38:U:H2'	2:A1:39:U:C6	2.11	0.84
6:AG:133:VAL:HG11	6:AG:138:TYR:CD1	2.11	0.84
6:AG:145:GLU:HB3	6:AG:184:LYS:HG2	1.57	0.84
13:AN:58:PRO:HB2	13:AN:93:GLN:CB	2.07	0.84
15:AP:11:ARG:HH11	15:AP:11:ARG:HG3	1.43	0.84
52:B5:20:ASN:ND2	52:B5:43:CYS:N	2.25	0.84
24:BA:1065:U:C1'	24:BA:1074:G:H22	1.90	0.84
24:BA:1137:G:O2'	34:BM:105:GLY:HA3	1.77	0.84
24:BA:1658:C:OP1	28:BE:134:ILE:HB	1.77	0.84
24:BA:1965:C:H3'	24:BA:1966:A:H8	1.31	0.84
24:BA:2348:U:O4	24:BA:2382:G:N2	2.08	0.84
24:BA:2530:A:C3'	24:BA:2531:A:H5''	2.07	0.84
24:BA:2644:G:O5'	24:BA:2644:G:H8	1.59	0.84
24:BA:511:U:C5	24:BA:512:G:N3	2.45	0.84
27:BD:147:LEU:CG	27:BD:154:LYS:HD2	2.07	0.84
27:BD:5:LYS:HB3	27:BD:29:PRO:HD3	1.59	0.84
29:BF:118:ALA:HB2	29:BF:122:LYS:HE2	1.59	0.84
29:BF:122:LYS:NZ	29:BF:122:LYS:HA	1.90	0.84
30:BG:36:LYS:CE	30:BG:38:VAL:HG13	2.06	0.84
35:BN:64:ARG:HH22	35:BN:77:ILE:HA	1.41	0.84
40:BS:27:THR:HB	40:BS:93:ARG:O	1.78	0.84
40:BS:53:ARG:HH22	40:BS:101:PHE:N	1.72	0.84
43:BV:35:ILE:HG13	51:B4:28:PRO:HG3	1.59	0.84
46:BY:127:LYS:HD2	46:BY:163:LEU:CA	2.07	0.84
46:BY:129:SER:HB3	46:BY:133:ILE:HG22	1.59	0.84
46:BY:166:SER:OG	46:BY:167:PRO:HD2	1.76	0.84
32:BK:91:SER:HA	32:BK:121:LYS:HD2	1.59	0.84
32:BK:68:LEU:O	32:BK:72:LEU:HG	1.75	0.84
26:BC:97:GLU:HG3	26:BC:119:VAL:HB	1.57	0.84
1:AA:854:G:H5''	1:AA:871:U:H3	1.42	0.84
1:AA:939:G:H2'	1:AA:940:C:C6	2.11	0.84
4:AE:213:LEU:CD2	4:AE:214:ILE:HD13	2.08	0.84
4:AE:74:LYS:HE2	4:AE:76:GLN:HB2	1.59	0.84
5:AF:21:ARG:HB2	5:AF:58:GLU:HG2	1.59	0.84
6:AG:18:LYS:HA	6:AG:33:MET:CE	2.07	0.84
7:AH:32:VAL:O	7:AH:43:LEU:HG	1.77	0.84
11:AL:8:GLY:O	11:AL:76:ALA:HB1	1.77	0.84
14:AO:88:GLY:HA3	14:AO:99:HIS:NE2	1.92	0.84
5:AF:12:LEU:CG	16:AQ:57:ARG:HG3	2.08	0.84
52:B5:15:GLU:HA	52:B5:21:TYR:HA	1.60	0.84
24:BA:1061:U:H4'	24:BA:1070:A:C1'	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1144:G:H2'	24:BA:1145:C:C5	2.11	0.84
24:BA:1204:A:H5'	24:BA:1206:G:OP1	1.76	0.84
24:BA:1540:G:C5	24:BA:1541:U:H1'	2.12	0.84
24:BA:1651:G:H2'	24:BA:1652:A:C8	2.11	0.84
24:BA:1913:A:H2	24:BA:1917:U:C5	1.92	0.84
24:BA:1918:A:C8	24:BA:1918:A:OP2	2.30	0.84
24:BA:2034:U:H3'	24:BA:2035:G:C5'	2.04	0.84
24:BA:281:G:N2	24:BA:282:A:N7	2.25	0.84
24:BA:665:C:H2'	24:BA:666:G:C8	2.12	0.84
24:BA:723:G:N2	24:BA:724:U:H1'	1.92	0.84
25:BB:12:C:H5''	47:BZ:74:ARG:HG2	1.56	0.84
27:BD:142:VAL:C	27:BD:163:ALA:HB3	1.96	0.84
27:BD:246:PRO:HG3	27:BD:252:TRP:HE3	1.36	0.84
27:BD:61:LEU:HD13	27:BD:86:PRO:HD3	1.58	0.84
27:BD:96:HIS:CE1	27:BD:102:LYS:HD3	2.12	0.84
27:BD:9:TYR:CZ	27:BD:25:THR:HG21	2.11	0.84
24:BA:2052:G:H1'	28:BE:149:ARG:C	1.97	0.84
31:BH:121:ILE:HG13	31:BH:133:VAL:HG21	1.59	0.84
31:BH:7:LEU:H	31:BH:8:PRO:CD	1.90	0.84
32:BK:7:GLU:N	32:BK:8:PRO:HD3	1.92	0.84
33:BL:79:ARG:HD3	33:BL:134:MET:SD	2.17	0.84
35:BN:122:LEU:H	40:BS:70:VAL:CG1	1.81	0.84
24:BA:873:G:H4'	37:BP:65:PHE:CE2	2.12	0.84
39:BR:37:ALA:O	39:BR:51:ALA:CB	2.25	0.84
39:BR:99:LYS:HG2	39:BR:103:GLU:OE1	1.76	0.84
44:BW:63:LYS:HE2	44:BW:63:LYS:N	1.91	0.84
45:BX:95:LYS:HG3	45:BX:103:GLY:HA3	1.59	0.84
47:BZ:44:ARG:O	47:BZ:77:ARG:HB2	1.76	0.84
1:AA:1342:C:O2'	11:AL:124:GLN:HB2	1.77	0.84
1:AA:453:A:C6	1:AA:454:C:N4	2.45	0.84
4:AE:80:ILE:CD1	4:AE:208:ILE:HG23	2.08	0.84
9:AJ:155:ARG:HA	9:AJ:155:ARG:NH1	1.93	0.84
12:AM:60:ARG:N	12:AM:60:ARG:HH11	1.76	0.84
18:AS:39:TYR:CB	18:AS:49:LEU:HD13	2.04	0.84
22:AW:40:ALA:HA	22:AW:55:ILE:CD1	2.06	0.84
23:AX:18:TYR:HB3	23:AX:22:ARG:O	1.76	0.84
53:B6:41:ARG:HH11	53:B6:41:ARG:CB	1.90	0.84
55:B8:9:ARG:HA	55:B8:34:GLN:HE22	1.42	0.84
24:BA:1263:U:C2	24:BA:1264:G:N2	2.46	0.84
24:BA:1543:A:OP2	24:BA:1544:C:C6	2.31	0.84
24:BA:1784:A:O2'	24:BA:1785:A:P	2.35	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2331:G:N2	24:BA:2385:C:N4	2.24	0.84
24:BA:2584:U:H2'	24:BA:2585:U:C6	2.12	0.84
24:BA:2688:U:H2'	24:BA:2688:U:O2	1.78	0.84
24:BA:451:C:H5	24:BA:453:C:H5'	1.41	0.84
24:BA:576:U:H2'	24:BA:577:G:H8	1.42	0.84
24:BA:95:G:H2'	48:B1:43:HIS:NE2	1.91	0.84
24:BA:95:G:O5'	48:B1:39:LEU:HB3	1.76	0.84
25:BB:32:C:H2'	25:BB:33:G:C8	2.12	0.84
27:BD:51:VAL:CB	27:BD:52:ARG:CZ	2.53	0.84
28:BE:147:PRO:HG2	28:BE:149:ARG:HD3	1.60	0.84
28:BE:4:ILE:O	28:BE:27:LEU:HD22	1.78	0.84
31:BH:136:ILE:HG23	31:BH:137:ASP:H	1.42	0.84
34:BM:3:THR:HG22	34:BM:4:TYR:H	1.41	0.84
39:BR:93:LYS:HE2	39:BR:95:HIS:HB3	1.58	0.84
44:BW:17:ALA:HB1	44:BW:27:THR:OG1	1.76	0.84
26:BC:22:ILE:HG21	26:BC:190:ARG:NH1	1.91	0.84
24:BA:1113:U:H2'	24:BA:1114:G:H8	1.41	0.84
2:A1:29:G:H2'	2:A1:30:U:C5'	2.05	0.84
1:AA:524:G:H2'	1:AA:525:C:C6	2.13	0.84
10:AK:21:LYS:O	10:AK:63:LEU:HB3	1.76	0.84
13:AN:126:ARG:NH1	13:AN:126:ARG:HB3	1.93	0.84
13:AN:95:ILE:HA	13:AN:98:LEU:CD1	2.08	0.84
17:AR:39:LEU:CD2	17:AR:56:LEU:HD22	2.08	0.84
17:AR:36:ILE:CD1	17:AR:63:ARG:HD3	2.07	0.84
17:AR:64:ARG:HA	17:AR:67:LEU:HD12	1.58	0.84
19:AT:19:VAL:HG21	19:AT:46:ASP:HB2	1.57	0.84
1:AA:1327:C:OP1	23:AX:20:LYS:HB3	1.76	0.84
52:B5:20:ASN:ND2	52:B5:42:TRP:HD1	1.75	0.84
24:BA:175:G:N2	24:BA:176:G:H1'	1.92	0.84
24:BA:2043:C:N4	24:BA:2777:G:N3	2.25	0.84
24:BA:2847:U:H3'	40:BS:99:LEU:HD11	1.59	0.84
24:BA:70:G:O2'	24:BA:71:A:H5'	1.75	0.84
24:BA:714:U:H2'	24:BA:715:G:C8	2.11	0.84
24:BA:727:A:H2'	24:BA:727:A:N3	1.91	0.84
24:BA:806:C:H2'	24:BA:807:U:C6	2.12	0.84
27:BD:232:PRO:CD	27:BD:247:ALA:HA	2.08	0.84
28:BE:133:LYS:HD2	28:BE:137:HIS:CG	2.13	0.84
28:BE:91:VAL:CG1	28:BE:93:VAL:HG22	2.08	0.84
29:BF:4:VAL:C	29:BF:20:LEU:CD1	2.45	0.84
35:BN:57:VAL:HG21	35:BN:85:VAL:HG13	1.58	0.84
39:BR:11:LYS:C	39:BR:14:VAL:HB	1.97	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:74:ALA:HB1	43:BV:105:VAL:HG23	1.58	0.84
44:BW:4:ALA:HB3	48:B1:21:ARG:HH12	1.39	0.84
47:BZ:51:VAL:HG11	47:BZ:79:VAL:CG2	2.06	0.84
47:BZ:5:LYS:CG	47:BZ:6:GLY:H	1.82	0.84
1:AA:233:C:O2'	1:AA:234:C:H5'	1.78	0.84
1:AA:1483:A:H8	1:AA:1483:A:O5'	1.61	0.84
1:AA:734:G:H2'	1:AA:735:C:C6	2.13	0.84
1:AA:866:C:H5	1:AA:867:G:H1'	1.38	0.84
4:AE:200:ILE:O	4:AE:202:PRO:HD3	1.75	0.84
4:AE:219:VAL:HG13	4:AE:222:ILE:HD11	1.60	0.84
4:AE:222:ILE:HB	4:AE:226:ARG:HH21	1.42	0.84
6:AG:31:CYS:O	6:AG:33:MET:HG2	1.78	0.84
7:AH:94:ALA:CB	7:AH:98:THR:HG21	2.08	0.84
10:AK:18:ARG:HA	10:AK:18:ARG:HH11	1.40	0.84
14:AO:83:VAL:CG2	14:AO:104:VAL:HB	2.07	0.84
15:AP:81:LEU:HD11	15:AP:88:ARG:HH22	1.42	0.84
18:AS:21:VAL:HG13	18:AS:36:ILE:CD1	2.07	0.84
22:AW:43:LEU:HD22	22:AW:48:LYS:HB2	1.58	0.84
50:B3:38:LYS:O	50:B3:39:CYS:HB2	1.75	0.84
50:B3:68:ARG:CA	50:B3:68:ARG:HH11	1.90	0.84
52:B5:11:LEU:HD22	54:B7:35:GLN:OE1	1.78	0.84
24:BA:1202:C:C4	24:BA:1203:G:C1'	2.57	0.84
24:BA:1798:U:H5'	27:BD:257:LEU:HD12	1.57	0.84
24:BA:1971:A:H8	24:BA:1971:A:H3'	1.42	0.84
24:BA:2434:A:O2'	24:BA:2435:A:H5''	1.78	0.84
24:BA:2492:U:O2	24:BA:2492:U:H2'	1.75	0.84
24:BA:2787:C:H1'	28:BE:61:ARG:HD2	1.60	0.84
24:BA:397:G:OP2	50:B3:41:PRO:HG3	1.77	0.84
24:BA:727:A:N1	24:BA:729:G:C6	2.45	0.84
28:BE:154:LYS:HZ3	28:BE:156:MET:HE2	1.43	0.84
29:BF:157:VAL:CG1	29:BF:176:LEU:HD23	2.07	0.84
29:BF:41:LEU:HA	29:BF:44:ARG:NE	1.92	0.84
30:BG:55:LYS:HE3	30:BG:152:LEU:HD21	1.59	0.84
31:BH:149:ARG:CZ	31:BH:164:TYR:HD1	1.91	0.84
35:BN:64:ARG:CG	35:BN:64:ARG:HH21	1.90	0.84
37:BP:28:ALA:O	37:BP:29:PHE:HB2	1.76	0.84
37:BP:42:ILE:HG12	37:BP:46:GLN:NE2	1.93	0.84
40:BS:30:VAL:HG21	40:BS:90:GLN:HA	1.59	0.84
1:AA:163:C:H2'	1:AA:164:U:O4'	1.77	0.84
1:AA:1109:C:H2'	1:AA:1110:A:O4'	1.76	0.84
1:AA:1128:C:O2	1:AA:1130:A:N6	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1231:G:OP1	11:AL:127:LYS:HG2	1.78	0.84
1:AA:1327:C:H5''	23:AX:20:LYS:CD	2.07	0.84
1:AA:859:A:H2'	1:AA:860:A:O4'	1.77	0.84
1:AA:872:A:O2'	1:AA:873:A:H5''	1.76	0.84
4:AE:71:VAL:HG22	4:AE:93:VAL:HB	1.59	0.84
6:AG:197:PRO:O	6:AG:198:VAL:HG13	1.78	0.84
6:AG:20:TYR:CD1	6:AG:21:LEU:N	2.45	0.84
6:AG:7:PRO:O	6:AG:10:ARG:HB3	1.77	0.84
10:AK:103:VAL:HB	10:AK:108:GLY:CA	2.08	0.84
10:AK:50:ARG:HH11	10:AK:50:ARG:HG2	1.39	0.84
1:AA:1350:A:OP2	11:AL:118:LYS:HG3	1.76	0.84
19:AT:44:ALA:HB1	19:AT:72:ARG:HA	1.57	0.84
24:BA:1263:U:H5''	51:B4:10:LYS:NZ	1.92	0.84
24:BA:1028:A:OP2	24:BA:1126:A:N6	2.11	0.84
24:BA:1135:C:H2'	24:BA:1136:G:H8	1.42	0.84
24:BA:1213:A:N6	24:BA:1236:G:H1'	1.92	0.84
24:BA:1324:G:C3'	24:BA:1325:G:H4'	2.07	0.84
27:BD:136:ILE:HD13	27:BD:173:VAL:HG11	1.59	0.84
29:BF:110:LEU:HD11	29:BF:181:LEU:HD23	1.57	0.84
29:BF:44:ARG:HG3	29:BF:45:ARG:H	1.41	0.84
24:BA:2305:A:O2'	30:BG:136:ARG:HA	1.77	0.84
31:BH:11:VAL:CG2	31:BH:50:VAL:HG21	2.07	0.84
33:BL:9:LYS:HG2	33:BL:56:GLU:CG	2.08	0.84
34:BM:70:LYS:NZ	34:BM:86:PRO:HB3	1.93	0.84
24:BA:1161:C:H1'	42:BU:22:VAL:HG11	1.60	0.84
42:BU:32:THR:CA	42:BU:64:HIS:O	2.21	0.84
46:BY:152:ALA:O	46:BY:155:LEU:HD22	1.77	0.84
46:BY:42:VAL:HG12	46:BY:46:LYS:NZ	1.93	0.84
32:BK:94:ALA:HB1	32:BK:114:LEU:HD12	1.60	0.84
32:BK:95:LYS:O	32:BK:98:ALA:HB3	1.78	0.84
3:AD:28:G:H2'	3:AD:29:G:H8	1.43	0.84
1:AA:1085:U:H5'	1:AA:1094:G:N2	1.93	0.84
1:AA:1100:C:O2	1:AA:1102:A:H5'	1.76	0.84
1:AA:363:A:O2'	1:AA:364:A:H5'	1.76	0.84
5:AF:11:ARG:HB3	5:AF:15:THR:O	1.78	0.84
10:AK:18:ARG:CA	10:AK:18:ARG:HH11	1.90	0.84
15:AP:48:LEU:HD22	15:AP:53:VAL:HG23	1.58	0.84
50:B3:5:ILE:HD13	50:B3:60:GLN:NE2	1.93	0.84
24:BA:1151:G:H2'	24:BA:1152:C:C6	2.11	0.84
24:BA:1692:U:H1'	24:BA:1696:G:N2	1.93	0.84
24:BA:2197:U:H2'	24:BA:2224:G:H22	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2438:U:H4'	24:BA:2440:C:OP1	1.78	0.84
24:BA:2548:G:H8	24:BA:2548:G:H5'	1.43	0.84
24:BA:2712:U:O2	24:BA:2712(A):A:N7	2.09	0.84
24:BA:2756:U:N3	24:BA:2758:A:C6	2.46	0.84
24:BA:2841:C:H2'	24:BA:2842:G:C8	2.09	0.84
24:BA:295:G:O2'	24:BA:296:C:H5'	1.78	0.84
24:BA:295:G:C2	24:BA:344:G:H1'	2.12	0.84
24:BA:371:A:H5''	24:BA:423:A:C8	2.12	0.84
24:BA:578:A:C2'	24:BA:2018:G:H5''	2.07	0.84
24:BA:678:C:H2'	24:BA:679:C:H6	1.42	0.84
24:BA:724:U:O2'	24:BA:725:G:H5'	1.77	0.84
27:BD:175:LEU:O	27:BD:182:LEU:HA	1.78	0.84
28:BE:118:LYS:HE2	28:BE:118:LYS:CA	2.08	0.84
28:BE:44:TYR:HD2	28:BE:45:THR:N	1.76	0.84
30:BG:74:LYS:HG2	30:BG:75:LYS:HD2	1.58	0.84
24:BA:1006:C:O2'	34:BM:106:MET:HB3	1.78	0.84
40:BS:15:VAL:HG12	40:BS:16:ARG:O	1.78	0.84
45:BX:82:PRO:CG	45:BX:97:ARG:H	1.91	0.84
24:BA:2111:C:OP2	24:BA:2111:C:H6	1.60	0.84
24:BA:2142:C:H2'	24:BA:2143:C:C6	2.11	0.84
1:AA:1288:A:N1	1:AA:1371:G:H1'	1.92	0.84
1:AA:713:G:N2	1:AA:777:A:H1'	1.93	0.84
4:AE:215:LEU:O	4:AE:218:ALA:HB3	1.78	0.84
8:AI:3:ARG:HG3	8:AI:65:VAL:O	1.78	0.84
10:AK:28:ALA:C	10:AK:32:LYS:HD2	1.97	0.84
11:AL:63:ILE:N	11:AL:63:ILE:HD12	1.92	0.84
13:AN:40:ILE:N	13:AN:40:ILE:HD13	1.93	0.84
20:AU:53:ARG:HA	20:AU:63:GLN:NE2	1.92	0.84
49:B2:10:LYS:HG2	49:B2:12:PRO:HD3	1.60	0.84
49:B2:8:LEU:HD12	49:B2:31:LEU:O	1.78	0.84
50:B3:47:GLN:HA	50:B3:52:THR:HG21	1.60	0.84
24:BA:1143:A:H2'	24:BA:1144:G:H8	1.42	0.84
24:BA:1814:G:H2'	24:BA:1815:A:N7	1.92	0.84
24:BA:1908:C:N4	24:BA:1923:U:H3	1.75	0.84
24:BA:2275:C:H4'	24:BA:2276:G:O5'	1.77	0.84
24:BA:242:G:H2'	24:BA:254:G:C6	2.11	0.84
24:BA:422:A:H2'	24:BA:422:A:N3	1.92	0.84
24:BA:514:A:H2	24:BA:515:A:N9	1.75	0.84
24:BA:996:A:H2'	24:BA:997:G:H8	1.42	0.84
27:BD:140:THR:O	27:BD:165:ILE:HD13	1.77	0.84
27:BD:106:ILE:HD12	27:BD:192:THR:CG2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:163:ALA:HB2	30:BG:172:LEU:CD2	2.08	0.84
31:BH:124:GLU:OE1	31:BH:133:VAL:HA	1.78	0.84
35:BN:4:PRO:HG2	35:BN:5:GLN:N	1.91	0.84
35:BN:12:ASP:HB3	35:BN:93:PRO:HG2	1.59	0.84
37:BP:43:THR:O	37:BP:47:ILE:HG13	1.77	0.84
39:BR:9:ARG:HH11	39:BR:9:ARG:CA	1.90	0.84
40:BS:30:VAL:HG22	40:BS:32:TYR:CZ	2.13	0.84
41:BT:81:HIS:O	41:BT:84:LYS:HB2	1.78	0.84
44:BW:8:ILE:HD11	44:BW:42:ALA:HB2	1.59	0.84
45:BX:2:ARG:CD	45:BX:3:VAL:H	1.91	0.84
46:BY:48:PHE:HB3	46:BY:54:HIS:HE1	1.42	0.84
18:AS:44:THR:HG23	18:AS:45:THR:N	1.93	0.84
1:AA:1344:C:H4'	11:AL:120:ARG:HB3	1.59	0.83
1:AA:1472:U:O2'	1:AA:1473:A:H5'	1.78	0.83
1:AA:133:U:H3	1:AA:229:U:H3	1.26	0.83
1:AA:451:A:N6	1:AA:480:U:H2'	1.92	0.83
1:AA:761:G:C5'	19:AT:102:GLY:HA3	2.07	0.83
1:AA:1348:U:H4'	11:AL:120:ARG:HH11	1.43	0.83
12:AM:27:ALA:HB2	12:AM:85:LEU:CG	2.08	0.83
24:BA:1071:G:O4'	24:BA:1089:G:N7	2.11	0.83
24:BA:1270:C:C5'	24:BA:1271:G:H5''	2.07	0.83
24:BA:1943:U:C1'	24:BA:1945:G:H5''	2.09	0.83
24:BA:2232:U:O2'	24:BA:2233:U:H5'	1.78	0.83
24:BA:251:A:H2'	24:BA:252:G:C4'	2.08	0.83
24:BA:221:A:N6	24:BA:265:A:H62	1.74	0.83
24:BA:2675:A:H5'	35:BN:29:ASN:HB3	1.58	0.83
24:BA:2821:A:H3'	24:BA:2821:A:OP2	1.76	0.83
24:BA:31:C:O2'	24:BA:32:C:H5'	1.78	0.83
24:BA:1813:G:H4'	27:BD:46:GLN:HB3	1.59	0.83
29:BF:158:THR:CG2	29:BF:196:LEU:H	1.88	0.83
29:BF:18:ARG:C	29:BF:19:GLU:HG3	1.98	0.83
42:BU:11:GLN:O	42:BU:21:ARG:HD2	1.78	0.83
42:BU:96:ILE:HD12	42:BU:96:ILE:O	1.78	0.83
43:BV:18:ARG:HD3	43:BV:76:VAL:HG12	1.59	0.83
46:BY:79:ARG:HB2	46:BY:80:ARG:NH1	1.92	0.83
32:BK:70:LYS:O	32:BK:74:ASN:HB2	1.77	0.83
1:AA:1075:C:H4'	1:AA:1101:A:N6	1.93	0.83
1:AA:1293:G:H2'	1:AA:1294:G:H8	1.41	0.83
6:AG:127:THR:C	6:AG:146:ILE:HG22	1.98	0.83
11:AL:47:LEU:HD12	11:AL:51:ARG:NH2	1.93	0.83
1:AA:1151:A:N3	12:AM:39:PRO:HG3	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:61:GLU:HG2	12:AM:62:HIS:H	1.42	0.83
5:AF:12:LEU:HD21	16:AQ:57:ARG:CG	2.07	0.83
17:AR:62:GLN:HA	17:AR:65:ARG:CZ	2.07	0.83
20:AU:76:LEU:HD22	20:AU:76:LEU:H	1.41	0.83
52:B5:20:ASN:ND2	52:B5:41:PRO:HB2	1.92	0.83
24:BA:1183:G:H1'	24:BA:1184:G:C8	2.13	0.83
24:BA:1626:G:N2	24:BA:1634:A:H1'	1.92	0.83
24:BA:775:G:C2'	24:BA:794:G:N7	2.41	0.83
24:BA:860:U:C5	24:BA:2267:A:H4'	2.12	0.83
25:BB:114:G:H1'	39:BR:38:GLN:NE2	1.92	0.83
27:BD:118:VAL:H	27:BD:129:ASN:ND2	1.74	0.83
29:BF:103:LYS:CA	29:BF:106:ARG:HG2	2.08	0.83
29:BF:9:ILE:HG21	29:BF:124:LEU:HB3	1.60	0.83
38:BQ:46:GLY:C	38:BQ:49:ASP:HB3	1.97	0.83
35:BN:121:VAL:HG12	40:BS:70:VAL:O	1.78	0.83
42:BU:27:ALA:O	42:BU:33:VAL:HG21	1.78	0.83
41:BT:88:ILE:CG1	42:BU:52:VAL:HG13	2.08	0.83
45:BX:72:VAL:HG21	45:BX:96:ILE:HG12	1.60	0.83
26:BC:75:LEU:HD22	26:BC:110:PHE:CZ	2.12	0.83
1:AA:1135:U:H4'	1:AA:1136:U:C5	2.13	0.83
1:AA:570:G:N1	1:AA:866:C:N4	2.26	0.83
1:AA:817:C:O2'	1:AA:818:G:C5'	2.25	0.83
3:AC:15:G:H22	3:AC:48:C:H42	1.25	0.83
5:AF:73:PRO:HB3	5:AF:105:GLU:OE1	1.78	0.83
9:AJ:111:ARG:HD2	9:AJ:123:GLU:HB2	1.59	0.83
11:AL:98:PRO:C	11:AL:100:GLY:H	1.79	0.83
12:AM:34:VAL:HA	12:AM:74:ILE:HG12	1.59	0.83
19:AT:76:LEU:HD11	19:AT:79:SER:OG	1.77	0.83
22:AW:75:ASN:O	22:AW:78:ALA:HB3	1.78	0.83
51:B4:10:LYS:HE3	51:B4:15:ARG:CZ	2.08	0.83
54:B7:54:GLU:N	54:B7:56:GLU:OE2	2.11	0.83
24:BA:1547:C:O2'	24:BA:1548:C:H5'	1.77	0.83
24:BA:1559:G:C4	24:BA:1559:G:H3'	2.11	0.83
24:BA:1700:A:H3'	24:BA:1701:A:H8	1.41	0.83
24:BA:1971:A:C8	24:BA:1971:A:H3'	2.13	0.83
24:BA:2037:G:H2'	24:BA:2038:G:C8	2.13	0.83
24:BA:2327:A:C2'	24:BA:2328:A:H8	1.90	0.83
24:BA:2399:G:N2	24:BA:2400:G:H1'	1.93	0.83
24:BA:270(A):A:H5'	24:BA:270(B):A:OP2	1.78	0.83
24:BA:541:C:H2'	24:BA:542:C:C6	2.13	0.83
24:BA:2334:G:H22	25:BB:12:C:H42	1.23	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:51:VAL:HB	27:BD:52:ARG:NE	1.93	0.83
30:BG:141:PHE:C	30:BG:143:GLU:H	1.82	0.83
30:BG:169:ALA:O	30:BG:172:LEU:HB3	1.78	0.83
35:BN:18:LYS:HE2	35:BN:44:LYS:HD3	1.60	0.83
37:BP:101:ARG:HG3	37:BP:101:ARG:NH1	1.93	0.83
38:BQ:88:ARG:HH11	38:BQ:88:ARG:CB	1.88	0.83
42:BU:43:GLU:N	42:BU:44:LYS:HZ1	1.74	0.83
43:BV:12:ILE:HG12	43:BV:101:SER:HB2	1.59	0.83
44:BW:55:ASN:HD22	44:BW:55:ASN:N	1.76	0.83
44:BW:60:ARG:HD3	44:BW:62:LYS:NZ	1.93	0.83
46:BY:51:ALA:C	46:BY:53:ILE:N	2.24	0.83
32:BK:50:ARG:O	32:BK:53:ALA:HB3	1.79	0.83
26:BC:181:PRO:HD2	26:BC:184:LYS:HD2	1.59	0.83
26:BC:89:ALA:HA	26:BC:154:ARG:HG3	1.60	0.83
1:AA:754:C:H3'	1:AA:754:C:O2	1.78	0.83
4:AE:168:THR:OG1	4:AE:192:SER:HA	1.79	0.83
4:AE:209:ARG:NH1	4:AE:213:LEU:HD12	1.94	0.83
6:AG:20:TYR:CA	6:AG:33:MET:SD	2.66	0.83
9:AJ:64:GLN:HG3	9:AJ:128:ALA:O	1.77	0.83
10:AK:36:LEU:HD12	10:AK:48:TYR:HB2	1.60	0.83
15:AP:34:LEU:HD23	15:AP:39:ILE:HG13	1.59	0.83
55:B8:11:CYS:HB3	55:B8:32:HIS:CE1	2.13	0.83
24:BA:1006:C:O2	34:BM:106:MET:HG2	1.78	0.83
24:BA:111:A:H2'	24:BA:112:U:C6	2.14	0.83
24:BA:1530:G:H22	24:BA:1541:U:H2'	1.43	0.83
24:BA:1966:A:H1'	24:BA:2593:U:C5'	2.08	0.83
24:BA:2026:C:O2'	24:BA:2027:G:H5'	1.79	0.83
24:BA:2329:G:H22	24:BA:2386:C:N4	1.75	0.83
24:BA:239:U:O2'	24:BA:240:G:H5'	1.79	0.83
24:BA:24:G:H2'	24:BA:25:U:C6	2.13	0.83
24:BA:269:U:H5''	24:BA:270(Y):G:C2'	2.08	0.83
24:BA:2781:A:H2'	24:BA:2782:G:O2'	1.78	0.83
24:BA:623:G:C8	36:BO:105:LEU:HD13	2.14	0.83
24:BA:784:A:OP1	24:BA:2588:G:H5''	1.78	0.83
24:BA:811:U:C4	36:BO:22:GLY:HA3	2.13	0.83
28:BE:136:ARG:O	28:BE:136:ARG:NH2	2.11	0.83
29:BF:156:LEU:HG	29:BF:173:VAL:HG23	1.60	0.83
30:BG:114:ILE:HD12	30:BG:115:ARG:H	1.42	0.83
30:BG:50:ALA:N	30:BG:70:VAL:HG13	1.93	0.83
34:BM:57:ALA:HB3	34:BM:124:ALA:CA	2.07	0.83
34:BM:39:ARG:HB3	34:BM:48:MET:HG3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:74:ARG:O	34:BM:74:ARG:HG2	1.74	0.83
38:BQ:18:LEU:HB3	38:BQ:22:ARG:HH21	1.42	0.83
39:BR:97:ARG:O	39:BR:100:ALA:HB3	1.77	0.83
41:BT:94:ASN:ND2	42:BU:6:LYS:HE3	1.92	0.83
48:B1:1:MET:HB3	48:B1:4:GLN:HB2	1.61	0.83
24:BA:2185:C:H2'	24:BA:2186:G:H8	1.43	0.83
1:AA:1202:G:C4	16:AQ:42:ILE:HD13	2.13	0.83
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.13	0.83
1:AA:218:C:H5'	1:AA:466:C:N4	1.94	0.83
4:AE:82:ARG:HB2	4:AE:94:ASN:ND2	1.94	0.83
6:AG:13:ARG:NH2	6:AG:40:PRO:HA	1.92	0.83
13:AN:33:THR:HA	13:AN:39:PRO:HA	1.58	0.83
13:AN:41:THR:OG1	13:AN:71:LYS:HD3	1.78	0.83
15:AP:78:ILE:HA	15:AP:81:LEU:CD1	2.07	0.83
17:AR:56:LEU:O	17:AR:60:VAL:HG23	1.77	0.83
19:AT:66:SER:CB	19:AT:69:LYS:HZ3	1.90	0.83
22:AW:58:LYS:O	22:AW:61:SER:OG	1.97	0.83
24:BA:1196:C:H2'	24:BA:1197:G:C8	2.13	0.83
24:BA:1541:U:O2	24:BA:1541:U:H2'	1.77	0.83
24:BA:1299:G:N2	24:BA:1640:C:H5'	1.94	0.83
24:BA:1716:U:O2	24:BA:1716:U:H2'	1.77	0.83
24:BA:775:G:N2	24:BA:787:U:C2'	2.41	0.83
24:BA:813:U:OP2	36:BO:26:GLY:HA2	1.77	0.83
24:BA:893:C:H2'	24:BA:894:C:H6	1.43	0.83
24:BA:987:G:O2'	24:BA:1000:A:H1'	1.77	0.83
27:BD:221:VAL:O	27:BD:222:ARG:HG3	1.77	0.83
31:BH:42:ARG:O	31:BH:53:GLU:HG2	1.79	0.83
34:BM:78:TYR:O	34:BM:79:PRO:C	2.17	0.83
38:BQ:20:LEU:HD21	38:BQ:24:GLN:CG	2.07	0.83
39:BR:20:ARG:HH21	39:BR:20:ARG:CB	1.84	0.83
47:BZ:54:GLY:O	47:BZ:56:ASP:N	2.10	0.83
3:AD:17:C:H3'	3:AD:18:G:H8	1.43	0.83
1:AA:910:C:O2'	1:AA:911:U:H5'	1.78	0.83
3:AB:74:C:C4	24:BA:2555:U:C2	2.67	0.83
19:AT:4:LYS:HE2	19:AT:5:VAL:O	1.78	0.83
44:BW:7:VAL:HG21	48:B1:31:ARG:NH2	1.94	0.83
49:B2:37:LEU:HD21	49:B2:39:ASP:HA	1.60	0.83
24:BA:387:U:O5'	50:B3:29:PRO:HG3	1.77	0.83
24:BA:1170:G:N3	24:BA:1170:G:H2'	1.94	0.83
24:BA:1266:G:N7	43:BV:16:LYS:HD2	1.93	0.83
24:BA:1315:C:H2'	24:BA:1316:U:C6	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:176:G:H2'	24:BA:177:G:C8	2.13	0.83
24:BA:2052:G:H2'	24:BA:2053:G:H8	1.41	0.83
24:BA:2305:A:H8	24:BA:2306:C:C5'	1.90	0.83
24:BA:2862:G:H2'	24:BA:2863:C:C6	2.12	0.83
24:BA:949:C:H2'	24:BA:950:G:H8	1.42	0.83
25:BB:13:A:H2	25:BB:69:G:H21	1.24	0.83
28:BE:49:LEU:HD13	28:BE:76:ARG:CG	2.09	0.83
29:BF:178:PRO:C	29:BF:180:GLY:H	1.82	0.83
29:BF:64:ILE:HD13	29:BF:65:TRP:H	1.43	0.83
30:BG:87:PRO:O	30:BG:88:ILE:HG13	1.79	0.83
31:BH:66:GLY:O	31:BH:69:ARG:HG2	1.79	0.83
34:BM:11:PRO:HB2	34:BM:13:TRP:HZ3	1.43	0.83
38:BQ:54:LEU:HA	38:BQ:57:ARG:HG3	1.61	0.83
41:BT:13:LYS:O	41:BT:17:ILE:HG12	1.78	0.83
42:BU:5:VAL:HG13	42:BU:38:LEU:O	1.76	0.83
43:BV:4:LYS:HA	43:BV:106:ILE:CD1	2.08	0.83
24:BA:456:C:H5	44:BW:68:ARG:NH1	1.76	0.83
45:BX:7:VAL:HG13	45:BX:71:LYS:HB3	1.59	0.83
1:AA:317:G:O2'	1:AA:318:G:H5'	1.78	0.83
1:AA:34:C:O2'	1:AA:35:G:H5'	1.77	0.83
14:AO:28:LYS:HE3	14:AO:33:ARG:HH12	1.43	0.83
14:AO:93:LEU:CD1	14:AO:96:VAL:HG21	2.08	0.83
15:AP:60:VAL:HA	15:AP:63:THR:CG2	2.08	0.83
16:AQ:13:THR:HG22	16:AQ:15:LYS:HB2	1.59	0.83
49:B2:13:ILE:HG23	49:B2:14:GLY:N	1.93	0.83
24:BA:1180:C:H2'	24:BA:1181:C:C6	2.12	0.83
24:BA:152:G:H22	24:BA:175:G:H1'	1.41	0.83
24:BA:1842:G:H2'	24:BA:1843:C:C6	2.12	0.83
24:BA:2227:A:H4'	27:BD:262:ARG:HG3	1.61	0.83
24:BA:2246:G:C2	24:BA:2247:A:C5	2.67	0.83
24:BA:2286:A:H4'	24:BA:2287:A:C1'	2.08	0.83
24:BA:197:A:H62	24:BA:248:G:H22	1.24	0.83
24:BA:640:C:H2'	24:BA:641:C:H5''	1.55	0.83
24:BA:672:C:H2'	24:BA:673:C:C6	2.14	0.83
24:BA:75:G:H4'	48:B1:50:ARG:NH1	1.94	0.83
24:BA:824:A:H5''	24:BA:825:C:OP2	1.77	0.83
28:BE:104:VAL:HG12	28:BE:105:THR:N	1.94	0.83
29:BF:18:ARG:HG2	29:BF:18:ARG:HH11	1.43	0.83
30:BG:94:LEU:HB2	30:BG:99:MET:HE1	1.60	0.83
34:BM:23:LEU:CD2	34:BM:61:ARG:O	2.26	0.83
34:BM:86:PRO:HB2	34:BM:89:LYS:HZ1	1.40	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:67:LYS:HA	35:BN:67:LYS:HE2	1.61	0.83
29:BF:38:ARG:NH1	36:BO:10:PRO:HA	1.93	0.83
37:BP:8:LYS:NZ	37:BP:93:TYR:HD2	1.76	0.83
41:BT:89:GLU:OE1	42:BU:50:PRO:HB3	1.79	0.83
42:BU:26:ASP:O	42:BU:29:PRO:HD2	1.79	0.83
26:BC:75:LEU:HD11	26:BC:99:ILE:HD13	1.60	0.83
1:AA:1100:C:H2'	4:AE:98:LEU:HD11	1.59	0.83
1:AA:564:C:C5	19:AT:31:LEU:HD21	2.14	0.83
3:AC:72:C:H2'	3:AC:73:A:C8	2.14	0.83
10:AK:75:ARG:HB2	10:AK:75:ARG:CZ	2.07	0.83
49:B2:19:GLN:NE2	49:B2:50:VAL:HA	1.94	0.83
51:B4:55:ARG:O	51:B4:56:LYS:HG2	1.79	0.83
53:B6:21:ARG:HB2	53:B6:21:ARG:NH1	1.94	0.83
24:BA:1312:U:C2'	24:BA:1313:U:O4'	2.23	0.83
24:BA:1334:G:H5''	44:BW:65:ARG:NH1	1.93	0.83
24:BA:1359:A:N6	24:BA:1371:G:H21	1.76	0.83
24:BA:1454:U:O2	24:BA:1454:U:H2'	1.75	0.83
24:BA:1826:G:H2'	24:BA:1827:C:H5'	1.61	0.83
24:BA:216:A:H2'	24:BA:217:G:C8	2.14	0.83
24:BA:2525:G:N2	24:BA:2539:C:C4	2.46	0.83
27:BD:133:LEU:HD11	27:BD:185:VAL:CG1	2.08	0.83
28:BE:14:ILE:H	28:BE:14:ILE:HD12	1.42	0.83
28:BE:154:LYS:NZ	28:BE:156:MET:HB2	1.94	0.83
31:BH:121:ILE:HD11	31:BH:123:PHE:CE1	2.12	0.83
39:BR:103:GLU:O	39:BR:106:ARG:HB3	1.79	0.83
43:BV:44:ALA:O	43:BV:47:VAL:HG23	1.79	0.83
46:BY:127:LYS:HB3	46:BY:162:GLU:O	1.79	0.83
32:BK:146:ALA:C	32:BK:148:GLU:H	1.79	0.83
1:AA:128:G:H5''	19:AT:2:PRO:HA	1.61	0.83
1:AA:1507:A:O2'	1:AA:1508:G:H5'	1.79	0.83
1:AA:246:A:O2'	1:AA:247:G:O4'	1.97	0.83
1:AA:265:G:H2'	1:AA:267:C:C5	2.14	0.83
1:AA:279:A:C5'	1:AA:280:C:H3'	2.08	0.83
1:AA:296:U:H2'	1:AA:297:G:C8	2.13	0.83
1:AA:399:G:H2'	1:AA:400:C:H6	1.41	0.83
1:AA:55:A:C2'	1:AA:56:U:H5'	2.09	0.83
1:AA:659:U:H2'	1:AA:660:G:H8	1.42	0.83
1:AA:677:U:H2'	1:AA:678:U:C6	2.14	0.83
1:AA:762:C:H2'	1:AA:763:G:C8	2.13	0.83
3:AB:74:C:C5	24:BA:2555:U:C4	2.66	0.83
4:AE:223:ILE:CG2	4:AE:229:VAL:HA	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:84:ILE:HA	5:AF:87:LEU:HD12	1.59	0.83
7:AH:107:ARG:O	7:AH:111:GLU:HG3	1.76	0.83
18:AS:72:ARG:HH21	18:AS:73:LEU:HD23	1.43	0.83
22:AW:77:ALA:O	22:AW:80:ARG:HB2	1.79	0.83
50:B3:46:GLN:NE2	50:B3:69:LYS:HE2	1.93	0.83
50:B3:7:PRO:HG2	50:B3:60:GLN:OE1	1.79	0.83
24:BA:1203:G:N3	24:BA:1203:G:C2'	2.42	0.83
24:BA:1460:A:H5'	24:BA:1461:G:OP2	1.79	0.83
24:BA:1660:C:N4	24:BA:2001:A:N6	2.26	0.83
24:BA:1770:G:O2'	24:BA:1771:C:H5'	1.79	0.83
24:BA:1943:U:H4'	24:BA:1944:U:O5'	1.78	0.83
24:BA:2277:G:C3'	24:BA:2278:A:H5''	2.09	0.83
24:BA:2468:G:O2'	24:BA:2469:A:H5'	1.79	0.83
24:BA:2576:G:H5''	24:BA:2577:A:OP1	1.78	0.83
24:BA:2607:G:C2'	24:BA:2608:G:H5'	2.08	0.83
24:BA:2875:C:H4'	40:BS:4:GLY:H	1.44	0.83
27:BD:63:ARG:NH1	27:BD:87:ASN:HD21	1.75	0.83
27:BD:67:PHE:HD1	27:BD:153:ALA:HB3	1.42	0.83
28:BE:173:VAL:HG22	28:BE:174:ASP:H	1.40	0.83
29:BF:128:ALA:HA	29:BF:142:TRP:CH2	2.14	0.83
24:BA:673:C:H4'	29:BF:82:ILE:CD1	2.07	0.83
29:BF:89:VAL:CG1	29:BF:90:PHE:H	1.84	0.83
34:BM:104:LYS:HA	34:BM:117:PHE:CZ	2.13	0.83
24:BA:2415:G:OP1	36:BO:61:ARG:HD2	1.77	0.83
37:BP:43:THR:HA	37:BP:94:VAL:CG1	2.07	0.83
38:BQ:100:LEU:HB2	38:BQ:112:ALA:HA	1.61	0.83
38:BQ:61:HIS:HA	38:BQ:64:ARG:HD3	1.59	0.83
40:BS:54:ARG:HD3	40:BS:55:ASN:ND2	1.94	0.83
24:BA:1156:A:OP1	41:BT:55:ARG:CZ	2.26	0.83
45:BX:50:ARG:HG3	45:BX:54:LYS:HB2	1.61	0.83
1:AA:1005:A:H5''	1:AA:1006:C:C6	2.13	0.83
1:AA:562:C:HO2'	14:AO:15:ARG:HD3	1.42	0.83
4:AE:102:LEU:H	4:AE:102:LEU:HD12	1.43	0.83
7:AH:151:LEU:HD21	10:AK:67:PRO:HG3	1.59	0.83
8:AI:85:VAL:HG11	8:AI:88:VAL:HG13	1.58	0.83
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CD1	2.09	0.83
15:AP:59:TYR:CZ	15:AP:63:THR:HG21	2.14	0.83
17:AR:33:THR:O	17:AR:36:ILE:HG22	1.79	0.83
20:AU:74:ARG:HH11	20:AU:74:ARG:HG2	1.43	0.83
24:BA:1438:U:C2'	24:BA:1439:A:H5'	2.08	0.83
24:BA:1451:C:H5'	24:BA:1453:A:OP2	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:752:A:N6	24:BA:1781:C:H1'	1.94	0.83
24:BA:2001:A:H2'	24:BA:2002:G:H8	1.42	0.83
24:BA:2446:G:O2'	24:BA:2448:A:H5''	1.79	0.83
24:BA:640:C:H2'	24:BA:641:C:H5'	1.58	0.83
25:BB:12:C:C5'	47:BZ:74:ARG:HG2	2.08	0.83
27:BD:119:ALA:HB1	27:BD:130:ALA:O	1.79	0.83
27:BD:169:GLU:HB3	27:BD:184:LYS:NZ	1.94	0.83
27:BD:172:TYR:HB3	27:BD:184:LYS:HG2	1.59	0.83
28:BE:91:VAL:CG2	28:BE:93:VAL:HG13	2.09	0.83
29:BF:52:LYS:O	29:BF:53:THR:HG23	1.78	0.83
30:BG:92:VAL:HG13	30:BG:94:LEU:CD1	2.09	0.83
35:BN:10:VAL:HG12	35:BN:17:ARG:HA	1.60	0.83
35:BN:43:VAL:HG11	35:BN:54:GLU:CD	1.99	0.83
36:BO:114:ILE:HG12	36:BO:130:PHE:HA	1.60	0.83
36:BO:117:GLU:O	36:BO:121:LYS:HG2	1.77	0.83
37:BP:40:ALA:HA	37:BP:98:LYS:HG3	1.60	0.83
43:BV:64:MET:HG2	43:BV:109:GLU:CG	2.08	0.83
45:BX:81:LYS:HG2	45:BX:96:ILE:HG23	1.60	0.83
25:BB:102:G:C2'	46:BY:73:GLN:HE21	1.91	0.83
32:BK:114:LEU:HD22	32:BK:130:TYR:HB3	1.58	0.83
24:BA:2132:U:H3'	24:BA:2133:G:H5''	1.59	0.83
1:AA:37:U:C3'	1:AA:37:U:C6	2.59	0.82
1:AA:482:A:N3	1:AA:482:A:H2'	1.93	0.82
1:AA:52:G:H2'	1:AA:53:A:H8	1.43	0.82
1:AA:570:G:HO2'	1:AA:819:A:H8	1.25	0.82
3:AC:76:A:N7	24:BA:2585:U:H1'	1.94	0.82
4:AE:180:LEU:O	4:AE:181:PHE:HB2	1.78	0.82
10:AK:22:GLU:O	10:AK:62:TYR:HA	1.79	0.82
13:AN:80:VAL:H	13:AN:104:GLN:NE2	1.77	0.82
17:AR:67:LEU:O	17:AR:70:LEU:HB3	1.79	0.82
54:B7:23:VAL:HG22	54:B7:47:LYS:C	1.99	0.82
24:BA:190:A:H2'	24:BA:191:A:C8	2.14	0.82
24:BA:411:G:N2	24:BA:2408:U:N3	2.24	0.82
24:BA:2649:U:H2'	24:BA:2650:U:C6	2.13	0.82
28:BE:51:PHE:CE1	28:BE:53:PRO:HD3	2.14	0.82
29:BF:157:VAL:O	29:BF:194:MET:HB2	1.78	0.82
30:BG:135:LEU:HD22	30:BG:136:ARG:N	1.92	0.82
31:BH:7:LEU:HG	31:BH:51:ARG:NH2	1.93	0.82
33:BL:23:VAL:HG11	33:BL:38:VAL:HG23	1.61	0.82
24:BA:1076:C:H4'	33:BL:93:ARG:NH2	1.94	0.82
36:BO:29:LYS:C	36:BO:30:THR:HG23	2.00	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:47:ASP:HB3	36:BO:48:PRO:CD	2.09	0.82
37:BP:112:GLU:HA	37:BP:115:MET:HG3	1.60	0.82
41:BT:32:PHE:O	41:BT:35:ALA:HB3	1.78	0.82
42:BU:6:LYS:HG2	42:BU:12:TYR:N	1.93	0.82
42:BU:49:THR:CG2	42:BU:50:PRO:HD2	2.08	0.82
26:BC:130:ILE:N	26:BC:130:ILE:HD12	1.94	0.82
24:BA:924:C:H2'	24:BA:925:C:C6	2.14	0.82
1:AA:1045:C:H2'	1:AA:1046:A:H8	1.43	0.82
1:AA:319:G:O2'	1:AA:320:C:H5'	1.79	0.82
1:AA:50:A:H5'	1:AA:51:A:C5'	2.06	0.82
3:AB:14:A:N6	3:AB:22:G:H1'	1.94	0.82
3:AC:38:A:H2'	3:AC:39:U:O4'	1.79	0.82
4:AE:81:VAL:HG12	4:AE:92:TYR:CD1	2.13	0.82
5:AF:3:ASN:ND2	5:AF:4:LYS:H	1.77	0.82
14:AO:32:PHE:HB2	14:AO:84:LEU:HD11	1.61	0.82
17:AR:31:LEU:HA	17:AR:34:LEU:CD2	2.09	0.82
17:AR:17:ARG:NH1	17:AR:77:ARG:HD3	1.94	0.82
18:AS:26:ARG:HD2	18:AS:31:LYS:N	1.94	0.82
19:AT:75:ARG:NH2	19:AT:77:VAL:HG22	1.94	0.82
20:AU:53:ARG:HH22	20:AU:60:GLY:N	1.76	0.82
51:B4:35:GLU:HB3	51:B4:49:CYS:HB3	1.61	0.82
24:BA:1312:U:H5''	44:BW:62:LYS:HB3	1.59	0.82
24:BA:1523:U:C2	24:BA:1524:G:C8	2.67	0.82
24:BA:1996:C:H2'	24:BA:1997:G:H4'	1.59	0.82
24:BA:2346:A:H62	52:B5:37:ARG:NH1	1.77	0.82
24:BA:2468:G:N2	24:BA:2481:G:H2'	1.94	0.82
24:BA:2807:G:N2	24:BA:2892:A:H62	1.77	0.82
24:BA:443:A:H4'	24:BA:1201:C:H5'	1.58	0.82
24:BA:783:A:H2'	24:BA:784:A:C4'	2.09	0.82
24:BA:558:G:P	34:BM:112:LEU:HG	2.18	0.82
37:BP:53:ALA:O	37:BP:56:ARG:HG3	1.78	0.82
39:BR:11:LYS:HA	39:BR:14:VAL:CG2	2.08	0.82
40:BS:48:ILE:HD13	40:BS:50:ILE:CD1	2.09	0.82
43:BV:6:ILE:CG1	43:BV:104:THR:HA	2.08	0.82
46:BY:24:LEU:O	46:BY:39:VAL:CB	2.21	0.82
32:BK:97:ILE:O	32:BK:100:ALA:HB3	1.79	0.82
24:BA:2123:G:H4'	26:BC:172:HIS:CG	2.13	0.82
1:AA:1269:A:H2'	1:AA:1270:C:C4'	2.09	0.82
5:AF:48:TYR:HA	5:AF:52:LEU:HD22	1.59	0.82
6:AG:155:LEU:HD23	6:AG:158:ILE:HD11	1.61	0.82
8:AI:48:LEU:N	8:AI:48:LEU:HD23	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:20:VAL:HA	18:AS:36:ILE:CG1	2.08	0.82
24:BA:1051:G:H4'	24:BA:2752:C:C1'	2.10	0.82
24:BA:1302:A:H5''	24:BA:1303:G:OP2	1.79	0.82
24:BA:146:G:H3'	24:BA:147:U:H5''	1.61	0.82
24:BA:1493:C:N4	24:BA:1499:C:N3	2.26	0.82
24:BA:1743:G:H3'	24:BA:1746:G:H8	1.42	0.82
24:BA:2234:G:O2'	24:BA:2235:G:H5'	1.78	0.82
24:BA:864:G:H2'	24:BA:865:C:C1'	2.08	0.82
28:BE:11:MET:O	28:BE:21:VAL:HG23	1.79	0.82
28:BE:12:THR:HG21	28:BE:19:ARG:NH2	1.93	0.82
31:BH:163:TYR:HB3	31:BH:166:GLY:HA2	1.61	0.82
31:BH:97:ARG:HB3	31:BH:104:GLU:HG3	1.60	0.82
34:BM:37:LYS:HA	34:BM:42:TRP:HB2	1.59	0.82
24:BA:833:U:O4'	36:BO:48:PRO:HD2	1.78	0.82
36:BO:65:ARG:NH1	36:BO:68:GLN:NE2	2.28	0.82
37:BP:25:ASP:CB	37:BP:102:VAL:H	1.92	0.82
38:BQ:104:ARG:HB2	38:BQ:111:LEU:HD11	1.61	0.82
38:BQ:77:ARG:NH1	38:BQ:77:ARG:HB2	1.91	0.82
41:BT:88:ILE:HD13	41:BT:88:ILE:N	1.94	0.82
43:BV:14:PRO:C	43:BV:16:LYS:HZ1	1.81	0.82
43:BV:90:ARG:NH2	43:BV:90:ARG:H	1.76	0.82
24:BA:1487:G:O2'	24:BA:1488:G:H5'	1.79	0.82
12:AM:96:ILE:HG13	12:AM:96:ILE:O	1.79	0.82
1:AA:1327:C:C5'	23:AX:20:LYS:HD3	2.08	0.82
1:AA:1405:G:N2	1:AA:1517:G:N2	2.22	0.82
1:AA:944:G:C3'	1:AA:945:G:H5''	2.08	0.82
6:AG:26:CYS:HA	6:AG:31:CYS:HB3	1.61	0.82
6:AG:29:PRO:HA	6:AG:34:GLU:HG2	1.59	0.82
7:AH:31:LEU:HD12	7:AH:129:ILE:CG2	2.07	0.82
7:AH:109:ILE:HD13	7:AH:135:THR:CG2	2.09	0.82
15:AP:23:TYR:HE2	15:AP:70:LEU:HD22	1.42	0.82
1:AA:582:U:H5'	17:AR:64:ARG:HH21	1.43	0.82
18:AS:74:LEU:O	18:AS:77:ALA:HB3	1.77	0.82
24:BA:1083:U:HO2'	24:BA:1084:A:H8	1.25	0.82
24:BA:1153:C:H2'	24:BA:1154:G:H8	1.45	0.82
24:BA:1206:G:H2'	24:BA:1207:C:C1'	2.09	0.82
24:BA:1300:U:H4'	24:BA:1301:A:O5'	1.79	0.82
24:BA:1394:U:H4'	24:BA:1603:A:H4'	1.60	0.82
24:BA:1664:A:H8	24:BA:1664:A:H3'	1.44	0.82
24:BA:1794:U:O2'	24:BA:1795:C:H5'	1.78	0.82
24:BA:414:C:H1'	24:BA:1864:U:H1'	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:220:G:H4'	24:BA:234:C:C4'	2.09	0.82
24:BA:963:U:H1'	24:BA:2250:G:H21	1.44	0.82
24:BA:2847:U:H3'	40:BS:99:LEU:HD12	1.58	0.82
24:BA:457:A:H1'	24:BA:459:U:N3	1.94	0.82
24:BA:606:U:O5'	24:BA:606:U:H6	1.61	0.82
25:BB:9:G:H4'	39:BR:43:GLU:OE2	1.80	0.82
27:BD:60:ARG:HD3	27:BD:62:TYR:CE2	2.15	0.82
28:BE:179:GLU:HB2	28:BE:181:LEU:HD11	1.61	0.82
29:BF:7:TYR:O	29:BF:18:ARG:CG	2.27	0.82
29:BF:82:ILE:N	29:BF:82:ILE:HD13	1.93	0.82
30:BG:36:LYS:HB2	30:BG:95:ARG:HD3	1.61	0.82
35:BN:43:VAL:HG11	35:BN:54:GLU:HA	1.61	0.82
35:BN:7:TYR:HD1	35:BN:7:TYR:H	0.88	0.82
41:BT:112:ARG:HH22	42:BU:49:THR:HG22	1.44	0.82
41:BT:15:LYS:CA	41:BT:18:LEU:HD23	2.07	0.82
43:BV:88:ARG:NE	43:BV:88:ARG:HA	1.92	0.82
24:BA:1334:G:H5''	44:BW:65:ARG:HH12	1.44	0.82
46:BY:113:ALA:HB1	46:BY:145:GLU:OE1	1.79	0.82
26:BC:211:SER:HB2	26:BC:223:ARG:HH21	1.41	0.82
1:AA:1037:C:H2'	1:AA:1038:C:H6	1.45	0.82
1:AA:1338:G:H21	3:AC:41:C:H1'	1.43	0.82
1:AA:186(D):C:H2'	1:AA:186(E):C:H6	1.43	0.82
1:AA:558:G:H3'	1:AA:559:A:C5'	2.09	0.82
1:AA:764:C:C2'	1:AA:765:G:C8	2.61	0.82
4:AE:88:ALA:CB	4:AE:219:VAL:HG22	2.05	0.82
9:AJ:106:GLN:HA	9:AJ:106:GLN:HE21	1.45	0.82
1:AA:551:U:H5'	14:AO:119:LYS:HZ3	1.44	0.82
14:AO:84:LEU:HB3	14:AO:104:VAL:CG1	2.10	0.82
15:AP:27:LYS:HD2	15:AP:31:LYS:NZ	1.93	0.82
1:AA:1114:C:H1'	16:AQ:60:SER:HB3	1.61	0.82
19:AT:31:LEU:O	19:AT:32:TYR:HD2	1.62	0.82
48:B1:51:GLN:HA	48:B1:54:ARG:NE	1.94	0.82
53:B6:21:ARG:CG	53:B6:31:LEU:HD21	2.08	0.82
53:B6:19:ARG:HB3	53:B6:23:ARG:NH2	1.95	0.82
24:BA:1464:C:H5'	24:BA:1528:A:O2'	1.78	0.82
24:BA:1475:G:H1	24:BA:1477:A:H62	1.20	0.82
24:BA:1725:G:H22	24:BA:1726:G:H1'	1.39	0.82
24:BA:2402:C:H5''	24:BA:2403:C:OP1	1.79	0.82
24:BA:265:A:C8	24:BA:265:A:C3'	2.56	0.82
24:BA:448:U:O2	24:BA:448:U:H2'	1.79	0.82
24:BA:572:A:H2'	24:BA:573:G:H1'	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:24:G:N3	25:BB:27:C:N4	2.27	0.82
36:BO:52:GLU:HA	36:BO:55:ARG:HG3	1.59	0.82
38:BQ:99:LYS:HG2	51:B4:43:HIS:NE2	1.93	0.82
40:BS:3:ARG:O	40:BS:6:LEU:HD23	1.79	0.82
24:BA:997:G:C5'	41:BT:92:ARG:HH11	1.92	0.82
42:BU:88:ARG:O	42:BU:90:PRO:HD3	1.79	0.82
43:BV:41:LYS:NZ	43:BV:41:LYS:HB3	1.94	0.82
44:BW:43:VAL:CG1	44:BW:51:VAL:HG22	2.09	0.82
1:AA:915:A:C2'	1:AA:916:G:H5'	2.08	0.82
4:AE:104:ASN:OD1	4:AE:108:ILE:HG12	1.80	0.82
6:AG:129:ASN:OD1	6:AG:144:ASP:HB3	1.79	0.82
14:AO:60:LEU:CD1	14:AO:60:LEU:N	2.42	0.82
14:AO:8:ASN:H	14:AO:8:ASN:ND2	1.77	0.82
15:AP:81:LEU:HD22	15:AP:82:MET:HG2	1.61	0.82
20:AU:47:THR:H	20:AU:49:LYS:HZ3	1.26	0.82
20:AU:74:ARG:NH1	20:AU:74:ARG:HG2	1.94	0.82
50:B3:47:GLN:HA	50:B3:52:THR:CG2	2.10	0.82
24:BA:1119:C:H2'	24:BA:1120:G:C8	2.15	0.82
24:BA:2767:C:C2	24:BA:2768:C:C5	2.68	0.82
24:BA:607:U:H2'	24:BA:607:U:O2	1.78	0.82
24:BA:783:A:H3'	27:BD:227:ASN:ND2	1.94	0.82
24:BA:931:G:N2	49:B2:24:LYS:HB3	1.93	0.82
27:BD:181:GLU:HA	27:BD:270:ILE:HG21	1.61	0.82
28:BE:124:GLY:HA3	28:BE:136:ARG:CB	2.09	0.82
28:BE:111:ARG:H	28:BE:161:GLY:HA3	1.43	0.82
29:BF:139:PHE:O	29:BF:142:TRP:HB3	1.78	0.82
31:BH:26:VAL:HG12	31:BH:79:VAL:HG11	1.62	0.82
31:BH:29:PRO:HD3	31:BH:79:VAL:O	1.79	0.82
33:BL:79:ARG:HD3	33:BL:134:MET:CG	2.09	0.82
36:BO:16:ARG:CD	36:BO:19:VAL:HG22	2.10	0.82
40:BS:51:ARG:O	40:BS:66:VAL:HA	1.80	0.82
41:BT:99:ALA:HA	41:BT:106:PHE:CG	2.14	0.82
46:BY:42:VAL:HG12	46:BY:46:LYS:HZ3	1.45	0.82
1:AA:1044:A:H2'	1:AA:1045:C:H5'	1.62	0.82
1:AA:166:G:O2'	1:AA:167:G:H5'	1.80	0.82
1:AA:370:C:O2'	1:AA:371:G:H5'	1.78	0.82
1:AA:573:A:N3	1:AA:883:C:O2'	2.13	0.82
4:AE:17:PHE:O	4:AE:42:ILE:HG22	1.79	0.82
5:AF:10:PHE:HD1	5:AF:178:LEU:HD22	1.44	0.82
6:AG:194:LEU:HD22	6:AG:194:LEU:N	1.95	0.82
1:AA:9:G:H5''	7:AH:126:ARG:CD	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:90:LEU:HD23	15:AP:93:ARG:HD2	1.61	0.82
19:AT:8:GLY:O	19:AT:56:VAL:HG13	1.80	0.82
51:B4:55:ARG:H	51:B4:55:ARG:HD3	1.45	0.82
24:BA:141:A:C2	24:BA:1596:A:O2'	2.32	0.82
24:BA:1531:C:H2'	24:BA:1532:C:C5	2.15	0.82
24:BA:1780:A:C3'	24:BA:1781:C:H5'	2.09	0.82
24:BA:1783:A:H5''	24:BA:1784:A:OP1	1.79	0.82
24:BA:1813:G:O2'	27:BD:52:ARG:NH2	2.12	0.82
24:BA:1941:C:H2'	24:BA:1942:C:O5'	1.77	0.82
24:BA:574:C:C2	24:BA:2055:C:H5	1.98	0.82
24:BA:221:A:H4'	24:BA:222:A:C5'	2.07	0.82
24:BA:2345:G:O2'	24:BA:2346:A:OP2	1.98	0.82
24:BA:2063:C:H1'	24:BA:2451:A:H2	1.43	0.82
24:BA:2799:A:O2'	24:BA:2802:G:C6	2.33	0.82
24:BA:558:G:H5'	34:BM:112:LEU:CD1	2.09	0.82
24:BA:702:G:O2'	24:BA:703:U:H5'	1.78	0.82
24:BA:828:U:C2'	24:BA:829:A:H8	1.89	0.82
24:BA:960:A:H5''	24:BA:961:C:OP1	1.79	0.82
29:BF:34:TRP:CD2	36:BO:8:PRO:HB2	2.15	0.82
37:BP:85:LYS:C	37:BP:87:LYS:H	1.81	0.82
38:BQ:42:LYS:O	38:BQ:45:ARG:HB3	1.80	0.82
39:BR:11:LYS:HA	39:BR:14:VAL:HG21	1.60	0.82
35:BN:77:ILE:HD13	40:BS:65:LYS:CE	2.10	0.82
47:BZ:32:ARG:HB2	47:BZ:32:ARG:NH1	1.95	0.82
32:BK:93:THR:HG23	32:BK:95:LYS:HB3	1.61	0.82
33:BL:98:ARG:HD3	33:BL:139:VAL:HB	1.60	0.82
5:AF:120:VAL:O	5:AF:123:GLN:HB2	1.79	0.82
5:AF:55:VAL:HG22	5:AF:68:VAL:HG13	1.62	0.82
8:AI:89:MET:HB2	20:AU:76:LEU:HD11	1.60	0.82
10:AK:40:ALA:CA	10:AK:45:ILE:HG23	2.08	0.82
19:AT:29:HIS:ND1	19:AT:31:LEU:N	2.27	0.82
19:AT:4:LYS:HD2	19:AT:5:VAL:N	1.95	0.82
8:AI:97:PHE:CD2	20:AU:31:LEU:HD13	2.13	0.82
20:AU:78:LEU:C	20:AU:79:LEU:HD12	2.00	0.82
24:BA:1085:A:H1'	24:BA:1086:A:C4'	2.10	0.82
24:BA:1341:U:OP2	24:BA:1397:U:N3	2.13	0.82
24:BA:1430:C:H2'	24:BA:1431:U:C6	2.15	0.82
24:BA:1791:A:O4'	27:BD:209:ALA:HB2	1.79	0.82
24:BA:1819:A:H1'	24:BA:1821:A:N3	1.94	0.82
24:BA:2208:U:H4'	27:BD:151:LYS:NZ	1.94	0.82
24:BA:2459:A:C5	24:BA:2493:U:O4	2.33	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:570:G:H1	24:BA:2498:C:C4'	1.92	0.82
24:BA:2074:U:O2'	24:BA:2598:A:H1'	1.80	0.82
24:BA:2690:C:C5	38:BQ:14:SER:HB2	2.15	0.82
24:BA:6:A:H4'	34:BM:132:ALA:O	1.78	0.82
24:BA:756:C:H2'	24:BA:757:U:H5'	1.59	0.82
24:BA:816:C:H5'	24:BA:816:C:H6	1.45	0.82
27:BD:118:VAL:O	27:BD:129:ASN:HA	1.79	0.82
27:BD:21:PHE:O	27:BD:205:VAL:HG22	1.79	0.82
30:BG:6:ALA:HA	30:BG:9:ARG:NH2	1.94	0.82
32:BK:22:LYS:HB3	32:BK:23:PRO:HD2	1.61	0.82
34:BM:87:LEU:C	34:BM:90:MET:HB2	2.00	0.82
35:BN:24:VAL:CG2	35:BN:26:LYS:HG2	2.10	0.82
35:BN:7:TYR:N	35:BN:7:TYR:CD1	2.25	0.82
24:BA:627:A:H5''	36:BO:75:ILE:HB	1.59	0.82
46:BY:144:LEU:CB	46:BY:174:VAL:HG11	2.10	0.82
46:BY:177:PRO:HG2	46:BY:178:GLU:H	1.44	0.82
32:BK:87:LYS:HE3	32:BK:122:GLU:OE2	1.78	0.82
1:AA:1315:U:O2'	1:AA:1360:A:C4	2.32	0.82
1:AA:1237:C:O2	1:AA:1335:C:H5'	1.80	0.82
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.15	0.82
1:AA:179:A:H3'	1:AA:180:U:C5	2.13	0.82
4:AE:16:HIS:O	4:AE:204:ASN:HB2	1.79	0.82
10:AK:41:ARG:NH1	10:AK:41:ARG:HB3	1.93	0.82
12:AM:9:ARG:O	12:AM:94:VAL:HG13	1.79	0.82
14:AO:86:ARG:HH12	14:AO:119:LYS:CG	1.90	0.82
17:AR:49:ASP:O	17:AR:49:ASP:CG	2.18	0.82
48:B1:52:ILE:O	48:B1:55:LEU:HB2	1.80	0.82
49:B2:22:ALA:HB1	49:B2:46:ASN:OD1	1.80	0.82
50:B3:59:PHE:HA	50:B3:62:ARG:CD	2.10	0.82
52:B5:12:GLU:HG2	52:B5:13:CYS:N	1.94	0.82
52:B5:11:LEU:HD13	54:B7:35:GLN:HE22	1.45	0.82
24:BA:1423:G:H2'	24:BA:1424:G:C8	2.14	0.82
24:BA:1743:G:H4'	24:BA:1743:G:OP1	1.78	0.82
24:BA:1944:U:H1'	24:BA:1955:U:C1'	2.09	0.82
24:BA:2012:G:OP1	43:BV:98:LYS:HG3	1.80	0.82
24:BA:2375:G:N2	24:BA:2378:A:N6	2.26	0.82
24:BA:270(P):C:H2'	24:BA:270(Q):C:C6	2.14	0.82
24:BA:878:A:C4	24:BA:879:G:N7	2.47	0.82
27:BD:54:ARG:C	27:BD:219:PRO:HD2	1.99	0.82
28:BE:170:LEU:N	28:BE:170:LEU:HD23	1.95	0.82
35:BN:106:LEU:HB2	40:BS:39:ARG:NH2	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:42:ILE:CD1	37:BP:47:ILE:HG13	2.10	0.82
37:BP:42:ILE:CG2	37:BP:95:ALA:HB3	2.09	0.82
42:BU:73:SER:HG	42:BU:89:GLN:HB2	1.45	0.82
18:AS:44:THR:CG2	18:AS:45:THR:H	1.90	0.82
1:AA:789:U:H6	1:AA:790:A:H5''	1.43	0.82
1:AA:872:A:C2'	1:AA:873:A:H5''	2.08	0.82
1:AA:959:A:H2'	1:AA:960:U:H4'	1.59	0.82
4:AE:134:GLU:HG3	4:AE:138:LEU:HD11	1.62	0.82
4:AE:188:ALA:HB1	4:AE:192:SER:OG	1.78	0.82
5:AF:182:ILE:HG23	5:AF:202:ILE:O	1.79	0.82
6:AG:135:LEU:O	6:AG:137:SER:N	2.11	0.82
7:AH:91:LEU:HD23	7:AH:91:LEU:O	1.80	0.82
12:AM:72:VAL:O	12:AM:73:ASP:HB2	1.78	0.82
13:AN:84:VAL:HG21	13:AN:110:ASP:HA	1.61	0.82
24:BA:1375:C:H2'	24:BA:1376:C:C6	2.13	0.82
24:BA:1343:G:H1'	24:BA:1597:A:C2	2.15	0.82
24:BA:1775:U:H2'	24:BA:1776:G:O4'	1.78	0.82
24:BA:1834:U:H1'	24:BA:1969:A:C2	2.14	0.82
24:BA:2091:U:C2'	24:BA:2092:U:H5'	2.09	0.82
24:BA:2269:A:H3'	24:BA:2269:A:OP1	1.80	0.82
24:BA:2497:A:H2'	24:BA:2498:C:OP2	1.79	0.82
24:BA:2568:C:C2'	24:BA:2569:G:H5'	2.10	0.82
24:BA:2747:G:O6	24:BA:2755:C:H5'	1.80	0.82
24:BA:303:U:H2'	24:BA:304:G:O4'	1.78	0.82
24:BA:881:G:N2	24:BA:896:A:N6	2.27	0.82
27:BD:147:LEU:HG	27:BD:154:LYS:CD	2.10	0.82
30:BG:139:LEU:HB3	30:BG:142:PRO:HB3	1.60	0.82
30:BG:78:SER:HB2	30:BG:82:LEU:CB	2.10	0.82
34:BM:10:GLU:OE2	34:BM:39:ARG:HD2	1.79	0.82
34:BM:23:LEU:CD1	34:BM:63:THR:HG23	2.09	0.82
35:BN:11:ALA:HB3	35:BN:97:ARG:HH12	1.43	0.82
24:BA:663:G:H4'	36:BO:18:ARG:HH11	1.45	0.82
36:BO:37:GLY:C	36:BO:40:SER:HB3	2.00	0.82
38:BQ:53:HIS:O	38:BQ:56:LYS:HG3	1.80	0.82
38:BQ:83:ILE:HD12	38:BQ:86:ARG:HE	1.43	0.82
42:BU:41:GLY:CA	42:BU:51:VAL:HG22	2.09	0.82
43:BV:14:PRO:CD	43:BV:78:GLU:OE1	2.26	0.82
43:BV:33:ARG:HH12	43:BV:48:ALA:HB2	1.43	0.82
44:BW:16:LYS:HE2	44:BW:16:LYS:H	1.44	0.82
47:BZ:23:VAL:HA	47:BZ:38:VAL:HG13	1.62	0.82
24:BA:2121:G:H1'	26:BC:167:LYS:HZ3	1.41	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1510:A:H2'	24:BA:1511:A:C2	2.15	0.82
1:AA:1312:G:O2'	1:AA:1313:U:H5'	1.79	0.81
1:AA:264:U:H2'	1:AA:264:U:O2	1.78	0.81
1:AA:42:G:H2'	1:AA:43:C:C6	2.14	0.81
1:AA:474:G:H5'	18:AS:81:ARG:HG3	1.60	0.81
1:AA:87:A:N7	1:AA:88:C:C4	2.48	0.81
1:AA:915:A:H2'	1:AA:916:G:H5'	1.59	0.81
1:AA:988:G:H2'	1:AA:989:C:O4'	1.80	0.81
4:AE:165:VAL:HG23	4:AE:166:ASP:H	1.43	0.81
7:AH:72:GLN:NE2	7:AH:144:THR:HG23	1.93	0.81
10:AK:18:ARG:CA	10:AK:18:ARG:NH1	2.43	0.81
48:B1:12:SER:HB3	48:B1:13:PRO:CD	2.09	0.81
49:B2:35:ARG:HH12	49:B2:47:VAL:HG22	1.45	0.81
24:BA:1664:A:H2'	24:BA:1665:A:C8	2.15	0.81
24:BA:1778:U:H2'	24:BA:1779:U:C6	2.15	0.81
24:BA:2459:A:H2	24:BA:2492:U:O4	1.63	0.81
24:BA:2458:G:N7	24:BA:2490:G:C6	2.47	0.81
24:BA:2809:A:O4'	24:BA:2811:G:N7	2.13	0.81
24:BA:2820:A:H5'	24:BA:2821:A:N7	1.95	0.81
24:BA:647:G:H2'	24:BA:648:G:H8	1.45	0.81
24:BA:746:A:O2'	24:BA:747:U:P	2.37	0.81
24:BA:855:G:H21	47:BZ:27:GLU:CB	1.93	0.81
28:BE:22:PRO:HA	28:BE:185:LYS:HA	1.59	0.81
29:BF:25:PRO:O	29:BF:28:ILE:HG22	1.78	0.81
34:BM:109:LYS:NZ	34:BM:110:GLY:N	2.27	0.81
36:BO:45:LEU:HB3	36:BO:46:LYS:HE2	1.62	0.81
40:BS:111:ARG:HA	40:BS:114:LEU:CD1	2.10	0.81
41:BT:13:LYS:O	41:BT:16:LYS:HB3	1.80	0.81
47:BZ:19:LYS:HG2	47:BZ:20:ARG:H	1.45	0.81
3:AD:22:G:H2'	3:AD:23:A:H8	1.45	0.81
24:BA:2102:U:H2'	24:BA:2103:C:C6	2.15	0.81
1:AA:1156:G:H1'	1:AA:1179:A:N6	1.94	0.81
1:AA:1226:C:H5''	15:AP:103:THR:O	1.78	0.81
1:AA:29:G:H5'	1:AA:296:U:OP1	1.80	0.81
1:AA:867:G:H2'	1:AA:868:C:C6	2.16	0.81
1:AA:917:G:O2'	1:AA:918:A:H5'	1.80	0.81
5:AF:190:ARG:HA	5:AF:190:ARG:HE	1.43	0.81
9:AJ:109:ASN:O	9:AJ:119:ARG:CZ	2.28	0.81
10:AK:82:HIS:O	10:AK:137:VAL:HG13	1.80	0.81
14:AO:12:ARG:HB3	14:AO:12:ARG:NH1	1.95	0.81
14:AO:27:LEU:O	14:AO:29:GLY:N	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:15:ARG:HG3	51:B4:16:ARG:H	1.44	0.81
52:B5:12:GLU:CG	52:B5:13:CYS:H	1.93	0.81
24:BA:150:C:H2'	24:BA:150:C:O2	1.78	0.81
24:BA:1542:G:C1'	24:BA:1543:A:C6	2.63	0.81
24:BA:1642:G:O2'	24:BA:1643:G:H5'	1.79	0.81
24:BA:1460:A:N1	24:BA:1732:A:N1	2.28	0.81
24:BA:2384:G:OP2	24:BA:2384:G:H8	1.63	0.81
24:BA:2416:C:H2'	24:BA:2417:C:C5'	2.05	0.81
24:BA:241:A:H1'	24:BA:243:U:C1'	2.10	0.81
24:BA:2537:U:H2'	24:BA:2538:C:C6	2.15	0.81
24:BA:269:U:C5'	24:BA:270(Y):G:H2'	2.09	0.81
24:BA:2816:C:O2'	24:BA:2817:G:H5'	1.79	0.81
24:BA:970:C:H2'	24:BA:971:C:C6	2.15	0.81
25:BB:46:A:H2'	25:BB:47:C:H6	1.41	0.81
28:BE:92:THR:H	28:BE:95:ILE:HD13	1.43	0.81
30:BG:102:PHE:CD2	30:BG:106:LEU:HD12	2.15	0.81
30:BG:49:ASP:CA	30:BG:53:LEU:HD22	2.09	0.81
31:BH:94:TYR:C	31:BH:95:ARG:HD2	2.00	0.81
32:BK:23:PRO:O	32:BK:27:ARG:HB2	1.79	0.81
34:BM:89:LYS:HG2	34:BM:90:MET:N	1.96	0.81
35:BN:97:ARG:HG3	35:BN:117:LEU:CD2	2.10	0.81
35:BN:21:CYS:HA	35:BN:41:ALA:HB2	1.62	0.81
29:BF:38:ARG:HH12	36:BO:10:PRO:HA	1.44	0.81
24:BA:2415:G:H5''	36:BO:61:ARG:HD2	1.62	0.81
24:BA:2876:G:H4'	40:BS:1:MET:N	1.95	0.81
42:BU:6:LYS:HZ3	42:BU:10:LYS:HB3	1.44	0.81
44:BW:4:ALA:HB3	48:B1:21:ARG:NH1	1.94	0.81
44:BW:84:ALA:HB3	44:BW:85:PRO:HD3	1.62	0.81
25:BB:76:G:H4'	46:BY:85:HIS:HB2	1.59	0.81
3:AD:21:A:H2'	3:AD:22:G:O4'	1.79	0.81
45:BX:41:GLY:HA3	45:BX:61:ILE:O	1.79	0.81
1:AA:657:G:H2'	1:AA:658:G:H5'	1.61	0.81
3:AB:63:G:O4'	24:BA:2482:G:O2'	1.97	0.81
3:AC:17:C:H5''	3:AC:19:G:OP2	1.79	0.81
3:AC:40:C:C2'	3:AC:41:C:H5'	2.08	0.81
4:AE:16:HIS:HA	4:AE:204:ASN:HB2	1.62	0.81
6:AG:12:CYS:HB3	6:AG:33:MET:HE3	1.62	0.81
6:AG:168:ARG:CD	6:AG:168:ARG:H	1.94	0.81
4:AE:181:PHE:CD1	10:AK:71:GLY:HA3	2.15	0.81
13:AN:95:ILE:HA	13:AN:98:LEU:CG	2.09	0.81
1:AA:523:A:H61	14:AO:53:ARG:HH22	1.23	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:56:ALA:HB3	18:AS:79:VAL:HG11	1.61	0.81
19:AT:4:LYS:CD	19:AT:5:VAL:H	1.94	0.81
20:AU:45:SER:OG	20:AU:51:LEU:HD11	1.80	0.81
20:AU:74:ARG:CG	20:AU:81:PHE:HB3	2.09	0.81
1:AA:958:A:C2	21:AV:55:LYS:HB2	2.16	0.81
22:AW:51:GLU:HB3	22:AW:54:LYS:NZ	1.95	0.81
22:AW:64:ASP:O	22:AW:67:ALA:N	2.12	0.81
50:B3:20:ASN:HB2	50:B3:30:GLU:CD	2.01	0.81
24:BA:2330:G:H1	24:BA:2385:C:N4	1.78	0.81
24:BA:2352:A:H2'	24:BA:2353:G:O4'	1.81	0.81
24:BA:1864:U:H4'	24:BA:2409:G:H22	1.44	0.81
24:BA:2498:C:H2'	24:BA:2499:C:H5''	1.59	0.81
24:BA:624:C:H3'	24:BA:624:C:C6	2.15	0.81
28:BE:173:VAL:CG2	28:BE:174:ASP:N	2.42	0.81
28:BE:7:VAL:CG2	28:BE:192:ASN:HA	2.10	0.81
29:BF:104:LYS:HG3	29:BF:108:LYS:NZ	1.94	0.81
31:BH:102:ALA:C	31:BH:115:VAL:HG12	2.00	0.81
34:BM:33:LEU:HD13	34:BM:34:LEU:HG	1.60	0.81
34:BM:4:TYR:OH	41:BT:101:ARG:HB3	1.80	0.81
40:BS:5:ALA:O	40:BS:9:LEU:HG	1.79	0.81
41:BT:55:ARG:NH1	41:BT:55:ARG:HG2	1.87	0.81
45:BX:86:ARG:HG2	45:BX:91:GLU:HB3	1.59	0.81
47:BZ:72:ARG:HG3	47:BZ:78:TYR:HB2	1.63	0.81
25:BB:11:C:H3'	47:BZ:74:ARG:CZ	2.11	0.81
1:AA:620:C:H2'	1:AA:621:A:O4'	1.81	0.81
3:AC:50:U:H2'	3:AC:51:U:O4'	1.79	0.81
4:AE:61:LEU:HA	4:AE:64:ARG:HD3	1.61	0.81
6:AG:30:LYS:N	6:AG:34:GLU:HB3	1.95	0.81
12:AM:94:VAL:HG12	12:AM:95:GLU:N	1.93	0.81
48:B1:20:VAL:HG21	48:B1:56:LEU:HD11	1.61	0.81
50:B3:68:ARG:NH1	50:B3:68:ARG:HB2	1.95	0.81
24:BA:1085:A:O2'	24:BA:1086:A:O4'	1.98	0.81
24:BA:1312:U:H2'	24:BA:1313:U:H6	1.40	0.81
24:BA:1802:A:H3'	24:BA:1803:A:C8	2.14	0.81
24:BA:1983:C:O2'	24:BA:1984:G:H5'	1.79	0.81
24:BA:221:A:N6	24:BA:265:A:N6	2.27	0.81
24:BA:2865:U:C4	24:BA:2866:U:C5	2.69	0.81
24:BA:477:A:H2'	24:BA:478:A:C8	2.14	0.81
24:BA:970:C:H2'	24:BA:971:C:H6	1.45	0.81
25:BB:40:U:H1'	25:BB:45:A:H62	1.43	0.81
27:BD:108:PRO:HB2	27:BD:111:LEU:HD21	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:5:LEU:HD13	28:BE:196:VAL:O	1.79	0.81
29:BF:4:VAL:O	29:BF:20:LEU:HD12	1.76	0.81
30:BG:30:GLU:HA	30:BG:33:ARG:HG2	1.63	0.81
30:BG:52:ILE:HG12	30:BG:148:MET:SD	2.19	0.81
30:BG:77:ILE:CA	30:BG:83:ARG:HE	1.91	0.81
31:BH:11:VAL:O	31:BH:11:VAL:HG12	1.80	0.81
34:BM:37:LYS:CD	34:BM:43:THR:HA	2.10	0.81
36:BO:92:GLU:OE1	36:BO:126:VAL:HG13	1.79	0.81
36:BO:15:ARG:NH2	36:BO:16:ARG:HB2	1.94	0.81
40:BS:53:ARG:CZ	40:BS:102:ILE:HG12	2.11	0.81
44:BW:27:THR:CB	44:BW:80:ILE:HD12	2.09	0.81
45:BX:82:PRO:HG3	45:BX:97:ARG:H	1.43	0.81
46:BY:24:LEU:HD23	46:BY:25:PRO:HD2	1.62	0.81
24:BA:2261:C:OP2	47:BZ:17:GLN:HB2	1.81	0.81
47:BZ:19:LYS:C	47:BZ:20:ARG:HD2	2.01	0.81
32:BK:86:THR:HG22	32:BK:87:LYS:H	1.45	0.81
3:AD:56:C:H5'	26:BC:133:PRO:HG2	1.62	0.81
26:BC:77:ILE:HD12	26:BC:123:VAL:HG13	1.62	0.81
26:BC:62:VAL:HG22	26:BC:63:SER:H	1.46	0.81
24:BA:1488:G:H2'	24:BA:1489:U:C5'	2.10	0.81
24:BA:1511:A:H2'	24:BA:1512:G:C5'	2.10	0.81
1:AA:228:A:H2'	1:AA:229:U:H5'	1.61	0.81
4:AE:102:LEU:CD2	4:AE:176:GLU:HB3	2.09	0.81
6:AG:21:LEU:HD13	6:AG:67:ILE:HG22	1.62	0.81
9:AJ:29:LYS:HE3	9:AJ:101:LEU:HD13	1.61	0.81
19:AT:97:SER:O	19:AT:98:LEU:HD22	1.80	0.81
51:B4:15:ARG:HG3	51:B4:16:ARG:N	1.95	0.81
43:BV:39:THR:HG23	51:B4:28:PRO:HB3	1.62	0.81
24:BA:2297:C:H2'	24:BA:2298:A:C8	2.15	0.81
24:BA:2331:G:N2	24:BA:2385:C:C4	2.49	0.81
27:BD:172:TYR:O	27:BD:184:LYS:HE2	1.80	0.81
28:BE:8:LYS:O	28:BE:192:ASN:HB2	1.79	0.81
31:BH:17:VAL:HG22	31:BH:45:VAL:HG21	1.61	0.81
33:BL:24:GLY:HA2	33:BL:34:ILE:HG12	1.63	0.81
34:BM:107:LEU:HD23	34:BM:107:LEU:C	2.00	0.81
35:BN:117:LEU:HD23	35:BN:118:ALA:N	1.95	0.81
35:BN:59:LYS:HE2	35:BN:59:LYS:N	1.96	0.81
35:BN:97:ARG:NE	35:BN:97:ARG:C	2.34	0.81
37:BP:51:ARG:HD3	37:BP:52:VAL:N	1.96	0.81
41:BT:55:ARG:HD2	41:BT:55:ARG:H	1.46	0.81
45:BX:74:PRO:HG2	45:BX:76:CYS:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:22:ILE:HB	26:BC:190:ARG:HH22	1.45	0.81
26:BC:10:LEU:HD11	26:BC:32:LEU:HB3	1.62	0.81
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.16	0.81
1:AA:1145:C:H1'	1:AA:1146:A:C8	2.15	0.81
1:AA:1202:G:H2'	1:AA:1203:C:C6	2.15	0.81
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.15	0.81
1:AA:174:C:H2'	1:AA:175:C:C6	2.14	0.81
1:AA:129(A):G:N2	1:AA:191(A):G:C5	2.49	0.81
1:AA:423:G:H2'	1:AA:424:G:O4'	1.80	0.81
3:AD:76:A:C3'	24:BA:2432:A:H4'	2.11	0.81
4:AE:150:SER:HA	4:AE:153:ARG:CB	2.09	0.81
5:AF:46:GLU:HB3	5:AF:47:LEU:HD22	1.62	0.81
6:AG:155:LEU:H	6:AG:158:ILE:HG13	1.45	0.81
7:AH:115:VAL:HG21	7:AH:118:ILE:HD12	1.61	0.81
9:AJ:35:LYS:HZ1	9:AJ:38:LEU:HD22	1.43	0.81
11:AL:19:LEU:HD23	11:AL:60:ASP:O	1.81	0.81
11:AL:97:LYS:NZ	11:AL:102:LEU:HD13	1.95	0.81
1:AA:761:G:H5'	19:AT:103:GLY:N	1.96	0.81
20:AU:55:ARG:HH11	20:AU:55:ARG:HB3	1.44	0.81
22:AW:85:MET:HA	22:AW:88:VAL:HG23	1.63	0.81
48:B1:28:MET:HA	48:B1:31:ARG:HG3	1.61	0.81
24:BA:1139:G:H2'	24:BA:1140:C:H5''	1.59	0.81
24:BA:1203:G:N1	24:BA:1241:A:H8	1.78	0.81
24:BA:1889:A:H2'	24:BA:1890:A:C8	2.16	0.81
24:BA:860:U:C6	24:BA:2267:A:H4'	2.15	0.81
24:BA:2289:G:H5'	24:BA:2384:G:H1'	1.61	0.81
24:BA:704:G:N2	24:BA:725:G:N2	2.27	0.81
24:BA:775:G:N2	24:BA:787:U:H2'	1.95	0.81
27:BD:57:GLY:N	27:BD:217:ARG:HD2	1.94	0.81
31:BH:7:LEU:HB2	31:BH:52:VAL:HG13	1.61	0.81
35:BN:9:GLU:HA	35:BN:17:ARG:O	1.80	0.81
37:BP:12:GLN:NE2	37:BP:13:GLN:HE21	1.78	0.81
38:BQ:54:LEU:O	38:BQ:57:ARG:HB2	1.81	0.81
39:BR:73:LEU:H	39:BR:73:LEU:HD13	1.44	0.81
39:BR:74:ALA:HB1	39:BR:108:GLY:HA3	1.61	0.81
45:BX:37:VAL:HG12	45:BX:64:GLU:HG2	1.63	0.81
32:BK:113:ARG:NH2	32:BK:132:PRO:HB3	1.95	0.81
32:BK:115:ALA:HB1	32:BK:128:LEU:HD22	1.63	0.81
39:BR:33:LYS:HE2	39:BR:54:LEU:HD21	1.60	0.81
1:AA:114:U:H2'	1:AA:115:G:C8	2.15	0.81
1:AA:1395:C:OP2	1:AA:1395:C:H3'	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:410:G:N3	1:AA:432:A:N6	2.28	0.81
7:AH:29:GLY:HA2	7:AH:46:GLY:O	1.80	0.81
8:AI:48:LEU:HD12	8:AI:50:TYR:O	1.79	0.81
10:AK:33:GLU:HA	10:AK:36:LEU:HD21	1.61	0.81
13:AN:54:ARG:HH11	13:AN:54:ARG:HG3	1.44	0.81
22:AW:11:SER:HA	22:AW:13:LEU:CD1	2.11	0.81
24:BA:987:G:OP1	49:B2:13:ILE:HG21	1.81	0.81
24:BA:1049:C:H42	24:BA:1050:A:N6	1.77	0.81
24:BA:1125:G:H4'	55:B8:4:ARG:HB3	1.60	0.81
24:BA:1131:G:OP1	34:BM:79:PRO:HD3	1.80	0.81
24:BA:1264:G:O6	24:BA:1265:A:N7	2.13	0.81
24:BA:1403:C:H4'	24:BA:1471:A:H5'	1.62	0.81
24:BA:1742:C:H2'	24:BA:1743:G:H4'	1.61	0.81
24:BA:2195:C:H2'	24:BA:2196:C:O4'	1.81	0.81
24:BA:2623:G:H5'	24:BA:2826:A:H1'	1.63	0.81
24:BA:336:C:C2'	24:BA:337:C:H5'	2.09	0.81
24:BA:475:U:H4'	24:BA:510:C:OP2	1.80	0.81
24:BA:829:A:H5''	24:BA:830:G:H5''	1.62	0.81
24:BA:2620:C:H4'	28:BE:156:MET:HB3	1.62	0.81
28:BE:77:ILE:HG12	28:BE:78:LEU:N	1.94	0.81
24:BA:450:G:C5'	29:BF:52:LYS:HD3	2.10	0.81
31:BH:11:VAL:CB	31:BH:50:VAL:HG21	2.11	0.81
35:BN:96:THR:CG2	35:BN:97:ARG:H	1.89	0.81
37:BP:69:PHE:HB3	37:BP:71:ASP:OD1	1.79	0.81
39:BR:11:LYS:HD3	39:BR:11:LYS:H	1.42	0.81
35:BN:77:ILE:HD13	40:BS:65:LYS:HE2	1.61	0.81
40:BS:7:ILE:HG13	40:BS:8:LYS:N	1.95	0.81
42:BU:18:LEU:HB2	42:BU:66:ARG:NH2	1.95	0.81
42:BU:27:ALA:HB1	42:BU:33:VAL:CG1	2.08	0.81
42:BU:73:SER:OG	42:BU:89:GLN:HB2	1.80	0.81
43:BV:3:ALA:HB3	43:BV:107:LEU:HB3	1.62	0.81
25:BB:102:G:N3	46:BY:73:GLN:NE2	2.27	0.81
26:BC:167:LYS:HG3	26:BC:168:THR:N	1.95	0.81
24:BA:1503:U:H2'	24:BA:1504:C:C6	2.15	0.81
1:AA:132:C:H5'	1:AA:262:A:C1'	2.10	0.81
1:AA:1433:A:H2'	1:AA:1434:A:O4'	1.81	0.81
4:AE:150:SER:CA	4:AE:153:ARG:HB2	2.09	0.81
11:AL:6:GLY:HA3	11:AL:80:GLY:O	1.79	0.81
15:AP:77:ASN:O	15:AP:80:ARG:HG3	1.80	0.81
17:AR:6:GLU:HG2	17:AR:7:GLU:N	1.94	0.81
22:AW:19:SER:O	22:AW:23:ARG:HB3	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1252:G:H3'	24:BA:1253:A:O4'	1.81	0.81
24:BA:1790:C:H2'	24:BA:1791:A:C8	2.15	0.81
24:BA:2409:G:N2	24:BA:2410:G:H1'	1.95	0.81
24:BA:2654:A:H4'	24:BA:2656:U:C5	2.15	0.81
24:BA:270:A:C2	24:BA:370:G:H1'	2.14	0.81
24:BA:642:G:N2	24:BA:644:A:C2	2.49	0.81
27:BD:130:ALA:O	27:BD:131:LEU:HD13	1.81	0.81
27:BD:157:ARG:HB3	27:BD:160:GLY:O	1.80	0.81
24:BA:2597:G:H5'	27:BD:242:ARG:HG2	1.62	0.81
24:BA:2597:G:C1'	27:BD:242:ARG:HH21	1.93	0.81
28:BE:100:GLU:H	28:BE:172:VAL:HG21	1.44	0.81
28:BE:131:ALA:HB1	28:BE:134:ILE:HG13	1.60	0.81
30:BG:113:ARG:HD3	30:BG:139:LEU:CD2	2.11	0.81
30:BG:11:TYR:O	30:BG:15:VAL:HG13	1.81	0.81
33:BL:19:PRO:HB2	33:BL:22:PRO:HG2	1.63	0.81
36:BO:101:VAL:HG23	36:BO:112:LEU:HD22	1.61	0.81
36:BO:74:GLU:HA	36:BO:107:LYS:HD3	1.62	0.81
41:BT:88:ILE:O	42:BU:52:VAL:HA	1.79	0.81
41:BT:88:ILE:HG22	42:BU:55:ALA:CB	2.10	0.81
43:BV:76:VAL:HG22	43:BV:77:ASP:H	1.45	0.81
46:BY:127:LYS:HD3	46:BY:165:VAL:HG23	1.60	0.81
26:BC:29:VAL:HA	26:BC:32:LEU:HD12	1.61	0.81
32:BK:19:VAL:HG12	32:BK:20:ASP:N	1.95	0.81
1:AA:1104:G:H4'	4:AE:111:ARG:NE	1.95	0.81
1:AA:451:A:H1'	1:AA:452:A:C4	2.15	0.81
1:AA:558:G:H2'	1:AA:559:A:H2	1.45	0.81
4:AE:10:LEU:HD23	4:AE:11:LEU:CD2	2.11	0.81
6:AG:13:ARG:HE	6:AG:40:PRO:HB3	1.45	0.81
6:AG:166:LYS:HE2	6:AG:178:VAL:HG12	1.62	0.81
8:AI:80:ARG:HG2	8:AI:88:VAL:HG21	1.62	0.81
1:AA:1347:G:H8	11:AL:107:ARG:CB	1.93	0.81
15:AP:70:LEU:O	15:AP:74:VAL:HG23	1.81	0.81
16:AQ:24:CYS:HB2	16:AQ:39:LEU:C	2.01	0.81
1:AA:582:U:H5'	17:AR:64:ARG:NH2	1.96	0.81
51:B4:25:LEU:O	51:B4:25:LEU:HG	1.79	0.81
52:B5:24:GLU:CG	54:B7:37:SER:HB2	2.10	0.81
24:BA:1061:U:C4'	24:BA:1070:A:H4'	2.09	0.81
24:BA:1319:G:O2'	24:BA:1320:C:H5'	1.80	0.81
24:BA:1559:G:N1	24:BA:1560:G:C4'	2.39	0.81
24:BA:2393:A:P	54:B7:32:LEU:HD11	2.21	0.81
3:AD:76:A:N7	24:BA:2432:A:N3	2.29	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2453:A:O2'	24:BA:2572:A:H1'	1.80	0.81
24:BA:2637:U:H5''	28:BE:81:ILE:CD1	2.09	0.81
24:BA:2740:A:H2'	24:BA:2741:A:C8	2.15	0.81
24:BA:464:U:H6	24:BA:464:U:O5'	1.63	0.81
24:BA:47:C:H6	24:BA:47:C:O5'	1.64	0.81
24:BA:620:G:H5'	24:BA:621:A:OP1	1.79	0.81
24:BA:764:A:N6	24:BA:1789:A:C2	2.47	0.81
24:BA:972:G:H5''	24:BA:973:A:O3'	1.80	0.81
25:BB:75:G:H2'	46:BY:85:HIS:HE1	1.43	0.81
27:BD:177:LEU:HD23	27:BD:181:GLU:O	1.81	0.81
28:BE:38:THR:OG1	28:BE:44:TYR:HB2	1.80	0.81
28:BE:52:LEU:HB2	28:BE:73:GLU:O	1.81	0.81
28:BE:91:VAL:HG11	28:BE:93:VAL:HG22	1.61	0.81
29:BF:125:LEU:C	29:BF:127:GLU:H	1.84	0.81
30:BG:181:ARG:N	30:BG:181:ARG:HD2	1.95	0.81
31:BH:41:MET:SD	31:BH:68:THR:OG1	2.39	0.81
34:BM:85:ILE:HB	34:BM:90:MET:CE	2.11	0.81
43:BV:64:MET:O	43:BV:66:GLU:N	2.13	0.81
37:BP:137:TYR:CZ	46:BY:124:ILE:HD11	2.16	0.81
32:BK:101:LEU:HG	32:BK:102:SER:H	1.44	0.81
24:BA:1416:G:C2	24:BA:1583:A:N6	2.49	0.81
1:AA:1068:G:N7	1:AA:1094:G:C8	2.49	0.81
1:AA:477:G:H2'	1:AA:478:A:C8	2.16	0.81
1:AA:859:A:O2'	1:AA:860:A:H5'	1.81	0.81
3:AB:52:G:H2'	3:AB:53:G:C8	2.16	0.81
3:AD:34:G:O5'	3:AD:35:A:H5'	1.80	0.81
4:AE:97:TRP:HH2	4:AE:176:GLU:CD	1.84	0.81
4:AE:187:LEU:HD22	4:AE:188:ALA:N	1.95	0.81
5:AF:58:GLU:H	5:AF:65:ALA:HB3	1.46	0.81
9:AJ:115:ARG:CB	9:AJ:118:VAL:HG23	2.11	0.81
9:AJ:45:ASP:HA	9:AJ:48:LYS:HZ3	1.45	0.81
1:AA:1118:C:OP1	11:AL:104:ARG:HG3	1.81	0.81
13:AN:84:VAL:CG2	13:AN:110:ASP:HA	2.11	0.81
14:AO:9:GLN:HA	14:AO:12:ARG:HH12	1.46	0.81
19:AT:12:SER:N	19:AT:20:THR:OG1	2.14	0.81
21:AV:41:VAL:HB	21:AV:42:PRO:CD	2.07	0.81
24:BA:1222:C:C4	24:BA:1223:C:H5	1.99	0.81
24:BA:1312:U:C3'	24:BA:1313:U:C6	2.63	0.81
24:BA:1387:C:H2'	24:BA:1388:G:C8	2.16	0.81
24:BA:1431:U:H2'	24:BA:1432:C:O4'	1.80	0.81
24:BA:2059:A:N1	24:BA:2503:A:C5	2.48	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2590:A:H2'	24:BA:2591:C:C6	2.15	0.81
24:BA:2687:U:H2'	24:BA:2687:U:O2	1.81	0.81
24:BA:2805:G:H3'	24:BA:2807:G:C5'	2.10	0.81
27:BD:181:GLU:HG3	27:BD:270:ILE:CB	2.11	0.81
28:BE:41:LYS:C	28:BE:43:GLY:H	1.81	0.81
30:BG:55:LYS:HE2	30:BG:151:ALA:HB1	1.61	0.81
30:BG:73:ALA:N	30:BG:88:ILE:HD11	1.96	0.81
34:BM:70:LYS:HZ2	34:BM:86:PRO:HB3	1.44	0.81
36:BO:107:LYS:HZ3	36:BO:110:TYR:HB3	1.46	0.81
37:BP:63:LYS:HD3	37:BP:64:ILE:N	1.95	0.81
41:BT:31:SER:O	41:BT:32:PHE:C	2.19	0.81
43:BV:90:ARG:HH21	43:BV:90:ARG:H	1.27	0.81
45:BX:8:LYS:HA	45:BX:28:LYS:HD2	1.60	0.81
45:BX:49:VAL:CG2	45:BX:51:VAL:HB	2.10	0.81
26:BC:68:LEU:HD23	26:BC:69:GLY:N	1.95	0.81
26:BC:89:ALA:HB1	26:BC:154:ARG:CA	2.10	0.81
24:BA:1508:A:H5''	24:BA:1510:A:C5	2.16	0.81
3:AB:4:C:H2'	3:AB:5:G:H8	1.44	0.81
2:A1:28:G:O2'	2:A1:29:G:H5'	1.81	0.81
1:AA:1256:A:N1	1:AA:1278:U:O2'	2.14	0.81
1:AA:1507:A:H2'	1:AA:1508:G:O4'	1.81	0.81
1:AA:399:G:H2'	1:AA:400:C:C6	2.15	0.81
1:AA:722:A:H2'	1:AA:724:G:H8	1.45	0.81
1:AA:91:C:H2'	1:AA:92:G:C8	2.13	0.81
1:AA:994:A:C2	16:AQ:5:ALA:HA	2.16	0.81
4:AE:234:PRO:HA	4:AE:238:LEU:HD13	1.61	0.81
6:AG:61:LYS:HG3	6:AG:207:TYR:HE1	1.46	0.81
6:AG:88:VAL:HG22	7:AH:97:GLY:N	1.96	0.81
8:AI:65:VAL:HG23	8:AI:66:GLU:N	1.96	0.81
9:AJ:137:LYS:HA	9:AJ:140:ASP:OD2	1.81	0.81
10:AK:109:ILE:HG12	10:AK:137:VAL:O	1.81	0.81
12:AM:8:LEU:HD13	12:AM:16:LEU:HD13	1.61	0.81
17:AR:60:VAL:HA	17:AR:63:ARG:HD3	1.62	0.81
20:AU:49:LYS:H	20:AU:49:LYS:HE3	1.43	0.81
20:AU:70:ILE:O	20:AU:74:ARG:HD2	1.81	0.81
24:BA:1238:G:O2'	24:BA:1239:G:H5'	1.80	0.81
24:BA:24:G:H2'	24:BA:25:U:H6	1.42	0.81
24:BA:2786:U:O2'	24:BA:2787:C:H5'	1.81	0.81
25:BB:24:G:H2'	25:BB:56:G:O6	1.81	0.81
28:BE:4:ILE:HG13	28:BE:27:LEU:HD13	1.62	0.81
28:BE:81:ILE:HG22	28:BE:82:ARG:N	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:43:LYS:HA	29:BF:97:TYR:O	1.81	0.81
31:BH:103:LEU:HG	31:BH:105:LEU:HD11	1.62	0.81
35:BN:18:LYS:HE2	35:BN:44:LYS:CD	2.12	0.81
36:BO:72:PRO:O	36:BO:111:ARG:HB3	1.80	0.81
24:BA:564:C:H1'	41:BT:37:GLU:CD	2.01	0.81
41:BT:69:CYS:SG	41:BT:70:ARG:HG3	2.20	0.81
42:BU:5:VAL:HG22	42:BU:39:LEU:HA	1.61	0.81
42:BU:81:TYR:O	42:BU:82:ARG:HB2	1.81	0.81
47:BZ:19:LYS:O	47:BZ:20:ARG:HD2	1.79	0.81
24:BA:1580:A:H2'	24:BA:1581:G:N9	1.95	0.81
1:AA:1104:G:C4'	4:AE:111:ARG:HE	1.93	0.80
1:AA:263:A:H2'	1:AA:264:U:C5'	2.07	0.80
1:AA:551:U:H2'	1:AA:552:U:C5	2.16	0.80
1:AA:952:U:O2'	1:AA:965:A:N6	2.14	0.80
4:AE:157:ARG:C	4:AE:158:LEU:HD23	2.02	0.80
4:AE:84:GLU:CG	4:AE:234:PRO:HD2	2.10	0.80
5:AF:20:SER:HB2	5:AF:40:ARG:NH2	1.95	0.80
6:AG:200:GLU:O	6:AG:204:ILE:HD12	1.80	0.80
7:AH:136:MET:O	7:AH:139:LEU:HB2	1.79	0.80
7:AH:78:HIS:CD2	7:AH:78:HIS:H	1.99	0.80
9:AJ:28:ASN:O	9:AJ:31:MET:HB3	1.80	0.80
10:AK:80:ILE:CD1	10:AK:80:ILE:H	1.94	0.80
15:AP:3:ARG:NH2	30:BG:113:ARG:CZ	2.44	0.80
15:AP:51:ALA:O	15:AP:55:ARG:HG3	1.81	0.80
19:AT:10:VAL:HG21	19:AT:55:ASP:HB2	1.61	0.80
48:B1:52:ILE:HA	48:B1:55:LEU:CD2	2.11	0.80
49:B2:22:ALA:O	49:B2:26:LEU:HD22	1.81	0.80
49:B2:31:LEU:HD12	49:B2:32:GLN:NE2	1.95	0.80
24:BA:1809:A:N6	50:B3:3:GLU:HG3	1.95	0.80
52:B5:19:ARG:HD3	52:B5:19:ARG:H	1.46	0.80
24:BA:125:G:H21	53:B6:13:ALA:HB3	1.45	0.80
24:BA:247:G:N2	54:B7:8:LYS:HD2	1.95	0.80
24:BA:1188:U:O2	24:BA:1188:U:H2'	1.80	0.80
24:BA:1299:G:H21	24:BA:1640:C:H6	1.27	0.80
24:BA:1708:C:H2'	24:BA:1709:U:H5''	1.61	0.80
24:BA:2269:A:C2	24:BA:2270:G:H1'	2.16	0.80
24:BA:245:G:N2	24:BA:254:G:H1'	1.96	0.80
24:BA:2468:G:H3'	24:BA:2476:A:N1	1.96	0.80
24:BA:2687:U:C2	24:BA:2688:U:H6	2.00	0.80
24:BA:2780:G:O2'	24:BA:2781:A:H5''	1.81	0.80
24:BA:386:G:N3	24:BA:386:G:H2'	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:477:A:N6	24:BA:502:A:N6	2.24	0.80
24:BA:663:G:H4'	36:BO:18:ARG:NH1	1.96	0.80
24:BA:825:C:H1'	24:BA:2428:G:N2	1.96	0.80
24:BA:902:C:H2'	24:BA:903:C:C6	2.16	0.80
24:BA:729:G:P	27:BD:13:ARG:HH22	2.03	0.80
28:BE:176:ILE:HD12	28:BE:179:GLU:O	1.80	0.80
33:BL:12:LEU:HD23	33:BL:22:PRO:HB2	1.63	0.80
35:BN:25:LEU:CB	35:BN:38:VAL:O	2.28	0.80
37:BP:74:TYR:HD2	37:BP:74:TYR:N	1.78	0.80
39:BR:95:HIS:HA	39:BR:99:LYS:HD2	1.63	0.80
46:BY:152:ALA:CA	46:BY:155:LEU:HD13	2.11	0.80
26:BC:59:ARG:HG3	26:BC:60:GLY:N	1.95	0.80
33:BL:14:ALA:HB2	33:BL:53:VAL:HB	1.63	0.80
1:AA:1035:A:H2'	1:AA:1036:G:H5'	1.63	0.80
4:AE:60:ASP:HB3	4:AE:64:ARG:HH12	1.47	0.80
5:AF:48:TYR:HA	5:AF:52:LEU:CD2	2.11	0.80
11:AL:97:LYS:HB3	11:AL:98:PRO:HD3	1.62	0.80
19:AT:11:VAL:HG23	19:AT:21:VAL:HA	1.63	0.80
22:AW:62:LEU:HA	22:AW:65:LYS:CG	2.10	0.80
49:B2:3:ARG:HH12	49:B2:59:VAL:CB	1.91	0.80
54:B7:13:ARG:HD2	54:B7:24:ALA:HB1	1.63	0.80
24:BA:1555:G:OP2	24:BA:1555:G:H3'	1.80	0.80
24:BA:1964:G:C2	24:BA:1967:C:C5	2.70	0.80
24:BA:2021:C:H2'	24:BA:2022:U:OP1	1.80	0.80
24:BA:2453:A:H61	24:BA:2500:U:H3	1.29	0.80
24:BA:2447:G:H3'	24:BA:2499:C:P	2.21	0.80
24:BA:2877:G:H3'	24:BA:2878:U:C6	2.17	0.80
24:BA:531:C:N4	41:BT:38:THR:HA	1.95	0.80
24:BA:67:U:H2'	24:BA:68:G:C8	2.16	0.80
24:BA:820:A:C2'	24:BA:821:A:H5'	2.08	0.80
28:BE:197:ILE:N	28:BE:197:ILE:HD12	1.95	0.80
29:BF:171:PRO:HB2	29:BF:172:TRP:HE3	1.46	0.80
29:BF:153:SER:HA	29:BF:172:TRP:O	1.81	0.80
30:BG:131:TYR:CZ	30:BG:157:ILE:O	2.34	0.80
31:BH:167:GLU:O	31:BH:169:VAL:HG13	1.81	0.80
34:BM:91:LEU:HD23	34:BM:98:VAL:HG21	1.61	0.80
36:BO:49:ARG:O	36:BO:52:GLU:HG2	1.82	0.80
37:BP:110:THR:O	37:BP:111:GLU:HB2	1.81	0.80
40:BS:7:ILE:HG13	40:BS:8:LYS:H	1.46	0.80
44:BW:12:VAL:HG23	44:BW:28:PHE:HA	1.61	0.80
44:BW:63:LYS:H	44:BW:72:LYS:HG2	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:98:VAL:O	45:BX:100:ALA:O	1.98	0.80
46:BY:79:ARG:C	46:BY:80:ARG:HD2	2.02	0.80
25:BB:76:G:H5'	46:BY:85:HIS:ND1	1.95	0.80
26:BC:64:LEU:HB3	26:BC:188:ASN:OD1	1.80	0.80
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.11	0.80
1:AA:477:G:H2'	1:AA:478:A:H8	1.45	0.80
5:AF:8:ILE:HG21	16:AQ:50:LYS:O	1.81	0.80
11:AL:101:PHE:C	11:AL:102:LEU:HD23	2.01	0.80
11:AL:52:ALA:O	11:AL:95:LYS:HD2	1.80	0.80
14:AO:24:VAL:HG22	14:AO:98:TYR:CZ	2.17	0.80
17:AR:36:ILE:HG13	17:AR:59:MET:HE1	1.62	0.80
18:AS:14:ASN:HA	18:AS:42:ARG:CZ	2.10	0.80
13:AN:84:VAL:HG21	20:AU:88:LYS:CD	2.11	0.80
1:AA:333:G:H4'	22:AW:16:HIS:CD2	2.16	0.80
24:BA:1022:G:N2	24:BA:1023:U:O4	2.14	0.80
24:BA:1142(A):A:H3'	24:BA:1143:A:C5'	2.11	0.80
24:BA:1155:A:H2'	24:BA:1156:A:C5'	2.11	0.80
24:BA:120:U:O2'	24:BA:121:G:H5''	1.81	0.80
24:BA:1355:G:N2	24:BA:1377:G:H1'	1.95	0.80
24:BA:1617:C:H2'	24:BA:1617:C:O2	1.79	0.80
24:BA:209:C:C2'	24:BA:210:C:H5'	2.10	0.80
24:BA:2333:A:H1'	24:BA:2335:A:C4	2.16	0.80
24:BA:2394:C:N4	24:BA:2422:A:H61	1.79	0.80
24:BA:2568:C:H2'	24:BA:2569:G:H5'	1.63	0.80
24:BA:2627:G:C2'	24:BA:2628:C:H5'	2.10	0.80
24:BA:2839:G:H4'	38:BQ:49:ASP:OD1	1.81	0.80
24:BA:604:G:C6	24:BA:605:C:N4	2.50	0.80
24:BA:900:A:C8	24:BA:901:A:C8	2.69	0.80
27:BD:133:LEU:O	27:BD:135:PHE:N	2.14	0.80
28:BE:33:VAL:HG21	28:BE:77:ILE:CD1	2.10	0.80
29:BF:157:VAL:HG12	29:BF:176:LEU:HD23	1.63	0.80
29:BF:201:VAL:HG12	29:BF:205:ARG:NE	1.96	0.80
31:BH:98:LEU:CG	31:BH:123:PHE:HB2	2.11	0.80
33:BL:41:PHE:CZ	33:BL:57:ILE:HD13	2.15	0.80
35:BN:97:ARG:CZ	35:BN:98:VAL:N	2.44	0.80
36:BO:93:GLY:HA2	36:BO:112:LEU:HD11	1.61	0.80
37:BP:26:TYR:HD1	37:BP:27:VAL:N	1.78	0.80
26:BC:8:ARG:HH11	26:BC:11:LEU:HD23	1.46	0.80
48:B1:5:LEU:O	48:B1:8:ALA:HB3	1.82	0.80
1:AA:1145:C:H1'	1:AA:1146:A:N7	1.95	0.80
1:AA:270:A:H2'	1:AA:271:C:H6	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:775:G:N3	1:AA:776:G:N7	2.29	0.80
1:AA:858:G:H1	1:AA:869:G:H3'	1.44	0.80
3:AC:21:A:N6	3:AC:46:G:N2	2.30	0.80
4:AE:101:MET:HA	4:AE:108:ILE:HG13	1.64	0.80
4:AE:47:THR:OG1	4:AE:202:PRO:HG2	1.82	0.80
4:AE:224:GLN:HG2	4:AE:229:VAL:HG21	1.61	0.80
10:AK:14:ARG:HG2	10:AK:18:ARG:HE	1.46	0.80
1:AA:449:C:O2	18:AS:42:ARG:HG2	1.81	0.80
22:AW:51:GLU:HA	22:AW:54:LYS:HD2	1.61	0.80
24:BA:2286:A:H1'	52:B5:37:ARG:NH2	1.96	0.80
24:BA:1047:G:H2'	24:BA:1110:G:N1	1.97	0.80
24:BA:1387:C:H2'	24:BA:1388:G:H8	1.46	0.80
24:BA:163:U:O4	24:BA:171:G:H1'	1.81	0.80
24:BA:1800:C:H3'	24:BA:1800:C:H6	1.45	0.80
24:BA:2226:C:H2'	24:BA:2227:A:O4'	1.80	0.80
24:BA:2557:G:H2'	24:BA:2558:C:H6	1.43	0.80
24:BA:371:A:O2'	24:BA:372:G:OP1	1.99	0.80
24:BA:535:C:H5'	41:BT:49:HIS:CB	2.10	0.80
27:BD:80:ALA:HB2	27:BD:96:HIS:HD1	1.45	0.80
30:BG:118:ARG:HG3	30:BG:119:GLY:H	1.43	0.80
30:BG:171:ALA:HA	30:BG:174:GLU:OE1	1.81	0.80
30:BG:53:LEU:HB3	30:BG:69:ALA:O	1.80	0.80
36:BO:38:GLN:C	36:BO:40:SER:N	2.33	0.80
36:BO:81:GLN:HB3	36:BO:86:LYS:HG3	1.64	0.80
38:BQ:36:THR:O	38:BQ:111:LEU:HB3	1.80	0.80
40:BS:78:LEU:HD21	40:BS:84:GLN:OE1	1.81	0.80
42:BU:57:VAL:HG12	42:BU:58:VAL:N	1.96	0.80
42:BU:20:LEU:HD13	42:BU:68:LYS:NZ	1.96	0.80
45:BX:12:THR:HG23	45:BX:73:ARG:HG3	1.63	0.80
26:BC:30:LYS:HG2	26:BC:178:ALA:O	1.81	0.80
26:BC:46:LYS:HG3	26:BC:211:SER:OG	1.81	0.80
24:BA:1114:G:C2	24:BA:1115:G:H1'	2.15	0.80
24:BA:1418:G:OP1	24:BA:1588:C:H4'	1.81	0.80
1:AA:1003:G:C5	1:AA:1004:A:H1'	2.15	0.80
1:AA:1126:U:H5'	1:AA:1281:U:O4'	1.81	0.80
1:AA:389:A:H2'	1:AA:390:C:C5'	2.10	0.80
3:AC:19:G:H21	3:AC:57:G:H1'	1.46	0.80
5:AF:24:ALA:HB1	5:AF:28:GLN:OE1	1.80	0.80
1:AA:1189:C:H5''	5:AF:5:ILE:HG12	1.63	0.80
8:AI:6:VAL:HG22	8:AI:8:ILE:CD1	2.11	0.80
8:AI:75:LEU:HD22	8:AI:79:LEU:CD2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1240:U:H2'	9:AJ:32:ARG:HH21	1.46	0.80
10:AK:68:ARG:HD3	10:AK:69:ARG:N	1.96	0.80
15:AP:11:ARG:O	15:AP:45:VAL:HB	1.80	0.80
12:AM:49:VAL:HG13	16:AQ:41:ARG:CD	2.11	0.80
49:B2:50:VAL:HG13	49:B2:53:LEU:CD1	2.11	0.80
24:BA:389:G:OP2	50:B3:24:THR:HG23	1.82	0.80
55:B8:10:ILE:O	55:B8:12:ASP:N	2.13	0.80
24:BA:1212:G:HO2'	24:BA:1213:A:H8	1.27	0.80
24:BA:1299:G:H22	24:BA:1640:C:H5'	1.46	0.80
24:BA:152:G:H2'	24:BA:153:C:O4'	1.80	0.80
24:BA:1602:U:C6	24:BA:1602:U:H3'	2.17	0.80
24:BA:1624:G:H2'	24:BA:1625:C:H5	1.46	0.80
24:BA:1913:A:N9	24:BA:1918:A:N6	2.29	0.80
24:BA:1943:U:C2	24:BA:1945:G:H5''	2.17	0.80
24:BA:2262:U:H4'	24:BA:2328:A:C2	2.17	0.80
24:BA:728:G:C6	24:BA:762:U:H2'	2.17	0.80
28:BE:173:VAL:HG22	28:BE:183:LEU:O	1.80	0.80
28:BE:13:ARG:CG	28:BE:22:PRO:HD3	2.07	0.80
30:BG:131:TYR:CE1	30:BG:157:ILE:O	2.35	0.80
31:BH:118:PRO:HG3	31:BH:144:VAL:HG21	1.61	0.80
31:BH:99:VAL:CG2	31:BH:104:GLU:HG2	2.11	0.80
34:BM:25:ARG:HA	34:BM:28:THR:CG2	2.11	0.80
35:BN:47:ILE:CD1	35:BN:52:VAL:HG13	2.11	0.80
37:BP:36:ALA:O	37:BP:37:LEU:HG	1.81	0.80
39:BR:49:VAL:HG13	39:BR:76:LYS:CE	2.12	0.80
39:BR:62:LYS:HB3	39:BR:65:VAL:N	1.96	0.80
39:BR:67:ARG:HH21	39:BR:67:ARG:HG2	1.47	0.80
39:BR:7:TYR:O	39:BR:10:ARG:HB2	1.81	0.80
41:BT:57:PHE:CA	41:BT:60:LEU:HG	2.12	0.80
43:BV:36:LEU:HD23	43:BV:51:LEU:CD2	2.11	0.80
45:BX:32:PRO:HB2	45:BX:34:LYS:HG3	1.64	0.80
46:BY:152:ALA:HB3	46:BY:168:GLU:CA	2.10	0.80
26:BC:64:LEU:HB3	26:BC:188:ASN:ND2	1.97	0.80
1:AA:232:G:H2'	1:AA:233:C:C5	2.15	0.80
1:AA:450:G:O6	1:AA:481:G:H2'	1.81	0.80
1:AA:474:G:C5'	18:AS:81:ARG:HG3	2.12	0.80
4:AE:16:HIS:C	4:AE:204:ASN:HB2	2.02	0.80
4:AE:80:ILE:HD12	4:AE:208:ILE:CG1	2.11	0.80
13:AN:57:THR:HG23	13:AN:60:ALA:N	1.95	0.80
15:AP:91:ARG:HB3	15:AP:98:VAL:HG22	1.62	0.80
18:AS:21:VAL:HG21	18:AS:59:TRP:HE1	1.43	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:65:ILE:HG23	19:AT:69:LYS:HD2	1.64	0.80
22:AW:23:ARG:HA	22:AW:26:ASN:OD1	1.81	0.80
24:BA:1592:C:H2'	24:BA:1593:G:H8	1.47	0.80
24:BA:1950:G:N7	24:BA:1951:U:C5	2.50	0.80
24:BA:287:C:C2'	24:BA:288:C:C5	2.64	0.80
24:BA:508:G:O2'	24:BA:509:C:H5''	1.81	0.80
24:BA:697:C:H2'	24:BA:698:C:H5''	1.62	0.80
28:BE:5:LEU:HD11	28:BE:196:VAL:HG12	1.63	0.80
30:BG:55:LYS:O	30:BG:59:GLU:HG2	1.81	0.80
31:BH:117:PRO:HA	31:BH:121:ILE:HD13	1.64	0.80
35:BN:39:ILE:C	35:BN:59:LYS:NZ	2.35	0.80
36:BO:46:LYS:HB3	36:BO:49:ARG:NH2	1.96	0.80
37:BP:16:ARG:NE	37:BP:73:PRO:HD3	1.96	0.80
39:BR:14:VAL:HG12	39:BR:15:ARG:N	1.96	0.80
40:BS:52:ILE:N	40:BS:66:VAL:HG12	1.97	0.80
41:BT:38:THR:O	41:BT:41:ALA:HB3	1.81	0.80
45:BX:35:TYR:O	45:BX:64:GLU:HB3	1.82	0.80
1:AA:270:A:O2'	1:AA:271:C:H5'	1.82	0.80
1:AA:495:A:H1'	1:AA:496:A:N7	1.97	0.80
1:AA:518:C:O2'	1:AA:519:C:OP2	2.00	0.80
1:AA:552:U:O2'	1:AA:553:A:H5'	1.82	0.80
4:AE:97:TRP:HZ2	4:AE:102:LEU:CD1	1.94	0.80
4:AE:59:GLU:CB	4:AE:221:LEU:HD21	2.09	0.80
11:AL:42:ARG:HB3	11:AL:74:ILE:CD1	2.11	0.80
17:AR:36:ILE:HD12	17:AR:63:ARG:HD3	1.63	0.80
18:AS:6:LEU:HD23	18:AS:17:TYR:CD2	2.17	0.80
49:B2:28:LEU:HD23	49:B2:28:LEU:N	1.96	0.80
50:B3:65:ASP:CA	50:B3:68:ARG:NH2	2.42	0.80
54:B7:22:VAL:CG1	54:B7:23:VAL:N	2.45	0.80
24:BA:1123:C:H2'	24:BA:1124:C:H6	1.45	0.80
24:BA:1142(A):A:N1	24:BA:1143:A:C8	2.50	0.80
24:BA:1496:A:C2	24:BA:1498:C:N4	2.50	0.80
24:BA:1670:C:H3'	24:BA:1671:U:C6	2.15	0.80
24:BA:1762:A:C8	24:BA:1762:A:C3'	2.60	0.80
24:BA:185:U:N3	24:BA:212:G:N2	2.30	0.80
24:BA:2756:U:N3	24:BA:2758:A:N6	2.29	0.80
24:BA:562:U:O2	24:BA:572:A:H1'	1.81	0.80
24:BA:90:U:H4'	24:BA:91:A:O5'	1.80	0.80
25:BB:30:C:H2'	25:BB:31:C:H5'	1.62	0.80
28:BE:1:MET:C	28:BE:2:LYS:HG3	2.02	0.80
29:BF:74:ARG:HH11	29:BF:75:HIS:HA	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:89:LYS:CE	34:BM:89:LYS:N	2.43	0.80
35:BN:69:VAL:N	35:BN:104:ARG:NH2	2.29	0.80
36:BO:16:ARG:HD3	36:BO:19:VAL:HG22	1.62	0.80
38:BQ:73:VAL:HG23	38:BQ:74:LYS:H	1.47	0.80
41:BT:13:LYS:HA	41:BT:16:LYS:HZ2	1.47	0.80
41:BT:98:LEU:HB3	41:BT:105:VAL:CG1	2.11	0.80
46:BY:102:LEU:HD13	46:BY:137:ILE:O	1.80	0.80
3:AD:62:C:H4'	26:BC:52:ARG:HD3	1.61	0.80
26:BC:56:GLN:O	26:BC:58:VAL:HG22	1.80	0.80
24:BA:1582:C:H3'	24:BA:1583:A:C5'	2.12	0.80
1:AA:1196:U:H5'	1:AA:1197:G:H5'	1.64	0.80
1:AA:1206:G:H2'	1:AA:1207:G:O4'	1.82	0.80
1:AA:1245:A:H2'	1:AA:1246:C:H6	1.47	0.80
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.44	0.80
4:AE:97:TRP:CH2	4:AE:176:GLU:HG3	2.15	0.80
4:AE:208:ILE:HA	4:AE:211:ILE:HB	1.63	0.80
7:AH:12:LEU:HG	7:AH:129:ILE:CD1	2.12	0.80
9:AJ:72:ARG:HH22	9:AJ:138:LYS:HZ3	1.28	0.80
11:AL:27:THR:HB	11:AL:62:TYR:CD1	2.17	0.80
11:AL:29:ASN:OD1	11:AL:64:THR:HA	1.82	0.80
12:AM:6:ILE:CG2	12:AM:98:ILE:HG13	2.11	0.80
17:AR:75:PRO:C	17:AR:78:TYR:HB3	2.02	0.80
20:AU:55:ARG:HB3	20:AU:55:ARG:NH1	1.96	0.80
49:B2:3:ARG:HH22	49:B2:59:VAL:CG1	1.94	0.80
54:B7:20:GLY:O	54:B7:21:LYS:HG3	1.81	0.80
55:B8:10:ILE:N	55:B8:10:ILE:HD12	1.97	0.80
24:BA:1475:G:H21	24:BA:1476:C:C5'	1.93	0.80
24:BA:1670:C:H2'	24:BA:1671:U:O4'	1.82	0.80
24:BA:2022:U:H5'	24:BA:2023:G:OP2	1.81	0.80
24:BA:2597:G:C5'	27:BD:242:ARG:HE	1.94	0.80
3:AC:75:C:P	24:BA:2602:A:H5'	2.22	0.80
24:BA:2771:C:H2'	24:BA:2772:C:C6	2.17	0.80
24:BA:339:U:H2'	24:BA:340:A:C8	2.16	0.80
25:BB:82:G:H2'	25:BB:83:G:H8	1.46	0.80
30:BG:29:TRP:O	30:BG:31:VAL:N	2.14	0.80
30:BG:44:GLY:O	30:BG:72:ARG:HB3	1.80	0.80
30:BG:60:LEU:O	30:BG:63:ILE:HG22	1.81	0.80
35:BN:10:VAL:C	35:BN:17:ARG:HG3	2.01	0.80
40:BS:28:VAL:HB	40:BS:52:ILE:HD12	1.64	0.80
43:BV:13:SER:HG	43:BV:14:PRO:HD2	1.47	0.80
43:BV:40:ASN:OD1	43:BV:41:LYS:HG3	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:24:LEU:HD13	46:BY:83:PRO:HD2	1.63	0.80
26:BC:43:VAL:HG22	26:BC:214:VAL:HG22	1.62	0.80
24:BA:2127:G:H5'	26:BC:36:LYS:HG2	1.64	0.80
24:BA:1113:U:O5'	24:BA:1113:U:H6	1.65	0.80
1:AA:1135:U:H2'	1:AA:1137:C:C6	2.16	0.80
1:AA:1277:C:H4'	1:AA:1282:C:C1'	2.11	0.80
1:AA:11:G:H2'	1:AA:12:U:O4'	1.81	0.80
3:AB:63:G:C2'	24:BA:2482:G:H4'	2.11	0.80
4:AE:90:MET:SD	4:AE:91:PRO:HD2	2.21	0.80
5:AF:15:THR:HG21	5:AF:181:ASN:CA	2.12	0.80
6:AG:55:ALA:O	6:AG:59:ARG:CG	2.28	0.80
6:AG:94:LEU:HA	6:AG:97:LEU:HD12	1.64	0.80
7:AH:109:ILE:HD13	7:AH:135:THR:CB	2.11	0.80
8:AI:30:LEU:HA	8:AI:75:LEU:CD1	2.12	0.80
11:AL:47:LEU:HD11	11:AL:56:LEU:HG	1.62	0.80
13:AN:87:THR:HA	13:AN:91:ARG:NH1	1.96	0.80
14:AO:77:LEU:HD11	14:AO:107:ALA:HB2	1.61	0.80
17:AR:75:PRO:CA	17:AR:78:TYR:HB3	2.11	0.80
51:B4:34:PRO:HD3	51:B4:40:LYS:CD	2.12	0.80
24:BA:1265:A:H8	24:BA:1267:U:O4	1.65	0.80
24:BA:1299:G:O6	24:BA:1639:U:H5''	1.80	0.80
24:BA:2051:A:H4'	28:BE:141:ILE:CD1	2.11	0.80
24:BA:2055:C:H4'	24:BA:2056:G:H5''	1.62	0.80
24:BA:2507:C:O3'	24:BA:2573:C:N4	2.15	0.80
24:BA:1051:G:H4'	24:BA:2752:C:H1'	1.63	0.80
24:BA:374:A:H3'	24:BA:375:C:H6	1.46	0.80
24:BA:820:A:H2'	24:BA:821:A:C5'	2.11	0.80
24:BA:871:U:H5''	37:BP:9:TYR:CZ	2.16	0.80
24:BA:917:A:H3'	24:BA:918:A:H5''	1.62	0.80
24:BA:973:A:HO2'	24:BA:974:G:C5'	1.94	0.80
27:BD:155:LEU:HD23	27:BD:155:LEU:O	1.81	0.80
28:BE:119:ARG:NE	28:BE:155:LYS:HB3	1.97	0.80
28:BE:47:VAL:HG22	28:BE:79:ARG:HB2	1.64	0.80
31:BH:7:LEU:HD13	31:BH:65:HIS:NE2	1.97	0.80
31:BH:98:LEU:HG	31:BH:123:PHE:CB	2.11	0.80
33:BL:129:GLY:HA2	33:BL:132:ARG:CZ	2.12	0.80
34:BM:91:LEU:O	34:BM:95:PRO:HD3	1.82	0.80
38:BQ:99:LYS:HA	38:BQ:112:ALA:HB2	1.63	0.80
24:BA:1453:A:N6	38:BQ:63:ARG:HH21	1.77	0.80
40:BS:32:TYR:N	40:BS:32:TYR:CD1	2.48	0.80
35:BN:122:LEU:HG	40:BS:71:GLY:O	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:108:GLU:HB2	41:BT:111:GLU:CD	2.01	0.80
44:BW:40:LYS:HA	44:BW:51:VAL:HG11	1.63	0.80
46:BY:4:ARG:O	46:BY:5:LEU:HD23	1.81	0.80
36:BO:149:GLU:CD	36:BO:150:ALA:H	1.84	0.80
1:AA:112:G:O2'	1:AA:113:G:H5'	1.81	0.80
1:AA:1224:G:H1	1:AA:1362(A):C:N4	1.80	0.80
1:AA:1394:A:O2'	1:AA:1395:C:OP1	2.00	0.80
1:AA:412:A:O2'	1:AA:413:G:H5''	1.82	0.80
1:AA:655:A:H2'	1:AA:656:C:H6	1.46	0.80
1:AA:907:A:H2'	1:AA:908:A:C8	2.17	0.80
1:AA:913:A:O2'	1:AA:914:A:O4'	1.98	0.80
7:AH:60:TYR:O	7:AH:64:ARG:HG2	1.82	0.80
10:AK:14:ARG:HH11	10:AK:14:ARG:CB	1.94	0.80
15:AP:98:VAL:HG23	15:AP:110:ARG:HH21	1.47	0.80
20:AU:21:LYS:HD2	20:AU:22:VAL:H	1.47	0.80
8:AI:46:ARG:HH22	20:AU:37:VAL:CG2	1.94	0.80
52:B5:30:THR:HB	52:B5:31:PRO:CD	2.12	0.80
54:B7:61:LEU:O	54:B7:62:LEU:HB2	1.82	0.80
24:BA:973:A:H1'	24:BA:1188:U:O4	1.82	0.80
24:BA:1526:G:H21	24:BA:1545(A):A:H62	1.27	0.80
24:BA:1394:U:H5''	24:BA:1604:C:P	2.22	0.80
24:BA:280:C:C4	24:BA:283:A:N7	2.50	0.80
24:BA:718:A:H5''	24:BA:719:C:C5	2.17	0.80
24:BA:865:C:O2'	24:BA:866:A:N7	2.15	0.80
27:BD:258:LYS:HA	27:BD:261:LYS:CE	2.11	0.80
30:BG:110:ALA:HB1	30:BG:139:LEU:CG	2.12	0.80
30:BG:148:MET:CG	30:BG:151:ALA:HA	2.07	0.80
36:BO:113:LYS:HA	36:BO:129:ALA:CB	2.12	0.80
36:BO:128:HIS:ND1	36:BO:129:ALA:N	2.30	0.80
37:BP:34:LEU:HD12	37:BP:67:ARG:NH2	1.97	0.80
38:BQ:44:LEU:CD1	38:BQ:48:VAL:HG21	2.12	0.80
38:BQ:45:ARG:O	38:BQ:49:ASP:HB3	1.82	0.80
40:BS:95:ARG:HH21	40:BS:95:ARG:HB3	1.46	0.80
41:BT:8:VAL:HG23	41:BT:9:VAL:N	1.97	0.80
45:BX:45:VAL:HG12	45:BX:57:GLN:OE1	1.81	0.80
47:BZ:37:LEU:HD12	47:BZ:59:LEU:HB3	1.63	0.80
1:AA:232:G:H2'	1:AA:233:C:H6	1.45	0.80
1:AA:1005:A:H3'	1:AA:1006:C:C6	2.14	0.79
1:AA:1347:G:H4'	1:AA:1348:U:O5'	1.82	0.79
1:AA:37:U:O4	1:AA:38:G:C4	2.34	0.79
1:AA:55:A:O2'	1:AA:56:U:H5'	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:819:A:C6	1:AA:1529:G:N7	2.51	0.79
4:AE:196:LEU:HD12	4:AE:197:VAL:N	1.97	0.79
7:AH:121:LYS:HZ2	7:AH:122:GLU:H	0.82	0.79
10:AK:86:ILE:HB	10:AK:133:LEU:O	1.82	0.79
13:AN:91:ARG:O	13:AN:95:ILE:HG13	1.82	0.79
15:AP:48:LEU:HD13	15:AP:53:VAL:HG22	1.64	0.79
17:AR:65:ARG:O	17:AR:68:ARG:HB3	1.80	0.79
18:AS:6:LEU:N	18:AS:6:LEU:HD13	1.96	0.79
49:B2:23:LEU:O	49:B2:28:LEU:HG	1.81	0.79
51:B4:55:ARG:O	51:B4:57:VAL:HG22	1.82	0.79
53:B6:42:LEU:O	53:B6:45:ALA:HB3	1.82	0.79
55:B8:7:VAL:HG21	55:B8:36:GLN:NE2	1.96	0.79
55:B8:7:VAL:HG22	55:B8:34:GLN:OE1	1.82	0.79
24:BA:1184:G:C2'	24:BA:1185:C:H5'	2.12	0.79
24:BA:1312:U:C2'	24:BA:1313:U:C6	2.65	0.79
24:BA:1472:A:H1'	24:BA:1473:G:N7	1.96	0.79
24:BA:1352:U:H1'	24:BA:1570:A:H2	1.46	0.79
24:BA:1609:A:C8	24:BA:1616:A:H1'	2.16	0.79
24:BA:2254:C:H2'	24:BA:2255:G:C5'	2.11	0.79
24:BA:2333:A:H2'	24:BA:2333:A:N3	1.94	0.79
24:BA:2349:G:C3'	24:BA:2350:C:H5''	2.12	0.79
24:BA:2467:C:O2'	37:BP:120:ILE:HG23	1.83	0.79
24:BA:2733:A:H2'	24:BA:2734:A:O5'	1.81	0.79
24:BA:531:C:C6	24:BA:532:A:N3	2.50	0.79
24:BA:763:G:C2'	24:BA:764:A:H5''	2.11	0.79
24:BA:76:C:C2'	24:BA:77:C:H5'	2.12	0.79
28:BE:137:HIS:HB2	28:BE:138:PRO:HD2	1.64	0.79
28:BE:169:ASN:ND2	28:BE:170:LEU:H	1.80	0.79
28:BE:174:ASP:O	28:BE:182:LEU:HG	1.82	0.79
28:BE:58:ARG:HB2	28:BE:58:ARG:HH21	1.47	0.79
29:BF:154:VAL:HG12	29:BF:191:ARG:HB3	1.64	0.79
30:BG:163:ALA:HB1	30:BG:169:ALA:CA	2.11	0.79
34:BM:99:LEU:HD21	34:BM:122:VAL:HG21	1.63	0.79
24:BA:662:G:H5''	36:BO:19:VAL:HG13	1.62	0.79
38:BQ:17:ARG:HG3	38:BQ:18:LEU:N	1.96	0.79
39:BR:74:ALA:HB2	39:BR:104:GLY:O	1.82	0.79
41:BT:15:LYS:HA	41:BT:18:LEU:CD2	2.09	0.79
42:BU:40:LEU:HD11	42:BU:55:ALA:HA	1.62	0.79
42:BU:64:HIS:ND1	42:BU:96:ILE:HG22	1.96	0.79
32:BK:125:GLU:CB	32:BK:143:SER:HB3	2.02	0.79
32:BK:75:LEU:HD13	32:BK:76:THR:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:150:GLY:O	26:BC:154:ARG:HB2	1.80	0.79
26:BC:19:ILE:HD12	26:BC:223:ARG:CB	2.11	0.79
26:BC:39:GLU:OE2	26:BC:216:THR:HB	1.82	0.79
26:BC:148:ASN:HD21	26:BC:152:ILE:HG13	1.48	0.79
1:AA:225:C:H2'	1:AA:226:G:C5'	2.13	0.79
1:AA:82:U:H2'	1:AA:85:U:C5	2.13	0.79
1:AA:953:G:N7	15:AP:104:ARG:NH2	2.30	0.79
6:AG:170:VAL:HG23	6:AG:176:LEU:HD22	1.64	0.79
1:AA:932:C:C3'	9:AJ:3:ARG:HG3	2.10	0.79
11:AL:16:ARG:NE	11:AL:18:PHE:HZ	1.80	0.79
15:AP:78:ILE:CA	15:AP:81:LEU:HD13	2.12	0.79
17:AR:42:HIS:CG	17:AR:43:LEU:N	2.48	0.79
19:AT:25:ARG:NH2	19:AT:40:LYS:HD3	1.92	0.79
23:AX:6:ARG:HB3	23:AX:15:ARG:HH21	1.46	0.79
24:BA:1527:G:H3'	24:BA:1527:G:C8	2.17	0.79
24:BA:2286:A:H62	52:B5:32:ASN:H	1.30	0.79
24:BA:343:C:H2'	24:BA:344:G:H5'	1.63	0.79
24:BA:360:G:H2'	24:BA:361:G:O4'	1.83	0.79
24:BA:850:C:O2'	24:BA:851:U:H5'	1.82	0.79
29:BF:12:LEU:O	29:BF:14:PRO:HD3	1.81	0.79
29:BF:122:LYS:NZ	29:BF:192:LEU:HB3	1.97	0.79
30:BG:59:GLU:OE2	30:BG:152:LEU:HD13	1.80	0.79
32:BK:2:LYS:HD2	32:BK:39:ALA:CB	2.11	0.79
34:BM:33:LEU:O	34:BM:35:ARG:N	2.13	0.79
42:BU:62:LEU:HD22	42:BU:99:ILE:N	1.96	0.79
45:BX:37:VAL:O	45:BX:39:VAL:HG23	1.82	0.79
47:BZ:33:ALA:HA	47:BZ:61:ALA:O	1.82	0.79
47:BZ:21:LEU:HG	47:BZ:39:ARG:O	1.81	0.79
24:BA:2135:A:H4'	24:BA:2136:C:H5	1.43	0.79
26:BC:64:LEU:HD12	26:BC:161:ILE:HG21	1.64	0.79
30:BG:91:ARG:HB2	30:BG:91:ARG:NH2	1.91	0.79
1:AA:1255:G:H21	1:AA:1276:G:N2	1.79	0.79
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.46	0.79
1:AA:708:C:O2'	1:AA:709:G:H5'	1.83	0.79
1:AA:541:G:H4'	6:AG:42:GLN:HB2	1.63	0.79
11:AL:9:ARG:O	11:AL:104:ARG:HG2	1.81	0.79
16:AQ:39:LEU:HD13	16:AQ:44:LEU:HA	1.62	0.79
17:AR:6:GLU:CG	17:AR:7:GLU:H	1.94	0.79
52:B5:26:ASN:O	52:B5:27:LYS:CB	2.30	0.79
24:BA:1203:G:N1	24:BA:1241:A:H1'	1.97	0.79
24:BA:176:G:H2'	24:BA:177:G:H8	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1846:G:N2	24:BA:1895:C:C2	2.50	0.79
24:BA:1941:C:O2	24:BA:1941:C:H2'	1.83	0.79
24:BA:1958:C:O2'	24:BA:1959:G:H5'	1.81	0.79
24:BA:2233:U:H2'	24:BA:2234:G:H8	1.46	0.79
24:BA:2305:A:C8	24:BA:2306:C:H5''	2.17	0.79
24:BA:2393:A:H5''	36:BO:56:SER:CA	2.12	0.79
24:BA:2447:G:C3'	24:BA:2499:C:P	2.71	0.79
24:BA:2776:A:H4'	24:BA:2777:G:C5'	2.12	0.79
24:BA:2848:G:C8	40:BS:99:LEU:CD1	2.66	0.79
24:BA:336:C:H2'	24:BA:337:C:H5'	1.63	0.79
24:BA:616:A:H4'	24:BA:617:G:OP1	1.82	0.79
24:BA:846:C:O2'	24:BA:847:U:OP2	1.98	0.79
24:BA:1788:C:C2	27:BD:222:ARG:NH2	2.51	0.79
24:BA:1803:A:C4'	27:BD:257:LEU:HD13	2.12	0.79
27:BD:34:VAL:HG23	27:BD:36:PRO:HD2	1.65	0.79
28:BE:199:ARG:HD2	28:BE:199:ARG:N	1.98	0.79
30:BG:138:GLN:HB2	30:BG:155:MET:HE1	1.63	0.79
31:BH:103:LEU:CG	31:BH:105:LEU:HD11	2.12	0.79
31:BH:40:GLU:HB2	31:BH:55:PRO:HG3	1.64	0.79
31:BH:6:ARG:HH11	31:BH:6:ARG:HA	1.46	0.79
37:BP:25:ASP:HB3	37:BP:102:VAL:N	1.97	0.79
40:BS:87:ASP:C	40:BS:88:ILE:HG13	2.03	0.79
41:BT:98:LEU:CD1	41:BT:105:VAL:HG21	2.12	0.79
45:BX:75:ILE:H	45:BX:100:ALA:HB1	1.47	0.79
47:BZ:50:ASN:O	47:BZ:62:LEU:HB3	1.82	0.79
32:BK:69:LYS:HG2	32:BK:70:LYS:H	1.44	0.79
3:AD:18:G:H2'	3:AD:19:G:O5'	1.81	0.79
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.46	0.79
1:AA:1406:U:H2'	1:AA:1406:U:O2	1.80	0.79
1:AA:225:C:H2'	1:AA:226:G:H5'	1.65	0.79
1:AA:520:A:H62	1:AA:529:G:N2	1.79	0.79
1:AA:657:G:C2'	1:AA:658:G:H5'	2.13	0.79
4:AE:167:PRO:HG2	4:AE:168:THR:H	1.46	0.79
9:AJ:5:ARG:HB3	9:AJ:5:ARG:NH1	1.97	0.79
9:AJ:75:VAL:HG13	9:AJ:87:VAL:O	1.82	0.79
15:AP:16:ASP:HA	15:AP:19:LEU:CG	2.13	0.79
17:AR:31:LEU:HA	17:AR:34:LEU:HD23	1.65	0.79
22:AW:62:LEU:CA	22:AW:65:LYS:HG2	2.12	0.79
54:B7:30:ARG:NE	54:B7:44:LYS:HB2	1.96	0.79
55:B8:20:HIS:C	55:B8:22:ARG:H	1.81	0.79
24:BA:1259:G:H2'	24:BA:1260:G:C8	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1290:C:H2'	24:BA:1291:C:C6	2.18	0.79
24:BA:192:C:O2	24:BA:192:C:H2'	1.80	0.79
24:BA:1937:A:N6	24:BA:1939:U:C5	2.50	0.79
24:BA:1992:G:H1'	24:BA:1993:U:H5	1.46	0.79
24:BA:2063:C:C3'	24:BA:2064:C:H5''	2.10	0.79
24:BA:2581:G:C6	24:BA:2610:C:H2'	2.18	0.79
24:BA:2746:U:N3	24:BA:2756:U:O4	2.15	0.79
24:BA:292:C:H2'	24:BA:293:U:C2	2.16	0.79
24:BA:603:A:H2'	24:BA:604:G:C8	2.17	0.79
24:BA:609:A:C6	24:BA:609(A):G:O6	2.35	0.79
24:BA:935:C:H2'	24:BA:936:C:C6	2.17	0.79
25:BB:68:C:H3'	25:BB:69:G:H8	1.48	0.79
25:BB:73:A:H2'	25:BB:74:U:H6	1.48	0.79
27:BD:77:ALA:HB1	27:BD:95:LEU:CD2	2.12	0.79
28:BE:104:VAL:CG1	28:BE:197:ILE:O	2.30	0.79
28:BE:104:VAL:HG22	28:BE:198:VAL:CG1	2.10	0.79
29:BF:36:VAL:HG11	29:BF:183:VAL:HB	1.65	0.79
31:BH:105:LEU:HD23	31:BH:105:LEU:N	1.96	0.79
31:BH:169:VAL:O	31:BH:171:LEU:HG	1.82	0.79
34:BM:76:SER:C	34:BM:78:TYR:H	1.85	0.79
35:BN:85:VAL:O	35:BN:93:PRO:CD	2.31	0.79
36:BO:7:ARG:CD	36:BO:8:PRO:HD3	2.12	0.79
42:BU:35:LEU:H	42:BU:61:VAL:HG13	1.45	0.79
47:BZ:25:ARG:CG	47:BZ:37:LEU:HA	2.13	0.79
14:AO:126:LYS:NZ	14:AO:128:ALA:H	1.80	0.79
1:AA:727:G:H3'	1:AA:727:G:C8	2.17	0.79
1:AA:1296:C:H1'	1:AA:1302:U:O4	1.82	0.79
1:AA:280:C:H5''	1:AA:281:G:OP2	1.81	0.79
1:AA:303:A:H2'	1:AA:304:U:O4'	1.83	0.79
1:AA:313:A:H2'	1:AA:314:C:C5	2.17	0.79
1:AA:692:U:H1'	1:AA:694:A:C8	2.17	0.79
6:AG:173:TRP:CD1	6:AG:189:PRO:HB3	2.18	0.79
7:AH:91:LEU:HD23	7:AH:91:LEU:C	2.03	0.79
12:AM:30:SER:CB	12:AM:80:LYS:HG3	2.12	0.79
14:AO:41:ARG:NH1	14:AO:41:ARG:HB3	1.97	0.79
18:AS:39:TYR:HB2	18:AS:49:LEU:CD1	2.08	0.79
20:AU:33:ASP:CG	20:AU:34:TYR:N	2.33	0.79
44:BW:5:TYR:HB3	48:B1:24:LYS:HD3	1.65	0.79
50:B3:5:ILE:CD1	50:B3:10:VAL:HG23	2.12	0.79
51:B4:51:TYR:HB3	51:B4:55:ARG:CA	2.12	0.79
53:B6:41:ARG:O	53:B6:42:LEU:HG	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:10:ILE:HD11	55:B8:34:GLN:NE2	1.98	0.79
24:BA:1214:A:H2'	24:BA:1215:G:C8	2.17	0.79
24:BA:1263:U:O3'	51:B4:10:LYS:HD3	1.81	0.79
24:BA:2519:U:H5''	24:BA:2520:C:OP1	1.81	0.79
24:BA:2538:C:O2	24:BA:2539:C:C5	2.34	0.79
24:BA:2610:C:H4'	24:BA:2611:U:O5'	1.81	0.79
24:BA:2747:G:O2'	31:BH:67:LEU:HD13	1.82	0.79
24:BA:819:A:H2'	24:BA:820:A:C8	2.17	0.79
24:BA:930:U:O5'	24:BA:930:U:C6	2.35	0.79
24:BA:935:C:H2'	24:BA:936:C:H6	1.46	0.79
27:BD:232:PRO:CG	27:BD:247:ALA:HA	2.12	0.79
27:BD:90:ALA:HA	27:BD:91:ARG:NH1	1.97	0.79
28:BE:105:THR:OG1	28:BE:165:VAL:O	2.00	0.79
28:BE:196:VAL:CG1	28:BE:197:ILE:N	2.44	0.79
24:BA:618:G:OP1	29:BF:106:ARG:HD2	1.83	0.79
33:BL:130:SER:O	33:BL:133:SER:HB3	1.82	0.79
34:BM:100:GLU:O	34:BM:103:VAL:HG13	1.82	0.79
35:BN:117:LEU:HD23	35:BN:117:LEU:C	2.03	0.79
46:BY:153:SER:HB3	46:BY:168:GLU:HB2	1.65	0.79
46:BY:18:LEU:HB3	46:BY:23:LYS:O	1.83	0.79
3:AD:18:G:H21	3:AD:58:A:C5'	1.95	0.79
26:BC:97:GLU:CA	26:BC:100:ILE:HD12	2.09	0.79
1:AA:161:A:H2'	1:AA:162:A:O4'	1.83	0.79
2:A1:25:G:H2'	2:A1:26:G:O4'	1.81	0.79
2:A1:52:U:H4'	6:AG:50:ARG:CA	2.12	0.79
1:AA:1178:G:H2'	1:AA:1180:A:OP2	1.82	0.79
1:AA:1242:C:H5''	23:AX:10:ARG:NH1	1.95	0.79
1:AA:124:G:H2'	1:AA:125:U:C6	2.18	0.79
1:AA:858:G:N2	1:AA:869:G:H3'	1.98	0.79
4:AE:164:VAL:HG12	4:AE:186:ALA:HB2	1.64	0.79
5:AF:181:ASN:ND2	5:AF:206:GLU:HG2	1.96	0.79
7:AH:13:ILE:HD12	7:AH:13:ILE:N	1.96	0.79
10:AK:9:MET:HG2	10:AK:13:ILE:HD11	1.64	0.79
13:AN:18:ARG:HA	13:AN:80:VAL:HG23	1.63	0.79
1:AA:1226:C:N4	15:AP:104:ARG:HG3	1.98	0.79
10:AK:91:ARG:HG2	19:AT:34:LYS:CB	2.12	0.79
19:AT:80:GLY:O	19:AT:82:MET:HG2	1.81	0.79
49:B2:55:ARG:HA	49:B2:55:ARG:CZ	2.13	0.79
51:B4:37:LYS:O	51:B4:38:ALA:O	2.00	0.79
51:B4:39:MET:CE	51:B4:41:PRO:HD3	2.13	0.79
53:B6:41:ARG:HB2	53:B6:41:ARG:NH1	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1033:U:H5'	55:B8:16:VAL:HG21	1.64	0.79
24:BA:49:A:H1'	24:BA:118:A:N6	1.96	0.79
24:BA:1312:U:C2'	24:BA:1313:U:H6	1.96	0.79
24:BA:1453:A:H61	38:BQ:63:ARG:NH2	1.80	0.79
24:BA:1772:G:C2'	24:BA:1773:A:H4'	2.11	0.79
24:BA:1799:G:H5''	27:BD:264:LYS:CE	2.12	0.79
24:BA:1933:G:O6	24:BA:1968:G:N2	2.15	0.79
24:BA:2046:G:H5''	51:B4:19:ARG:HA	1.63	0.79
24:BA:2072:G:C4	24:BA:2073:C:C5	2.70	0.79
24:BA:2265:U:C2	24:BA:2266:A:N7	2.51	0.79
24:BA:2383:G:OP2	54:B7:39:LYS:HD3	1.82	0.79
24:BA:1782:C:N4	24:BA:2587:A:N6	2.30	0.79
24:BA:448:U:O4	24:BA:583:G:H1'	1.82	0.79
24:BA:568:U:H2'	24:BA:570:G:C8	2.18	0.79
24:BA:685:A:O4'	24:BA:688:U:O4	1.99	0.79
24:BA:193:U:H4'	24:BA:803:U:C4'	2.11	0.79
27:BD:181:GLU:CB	27:BD:268:ARG:HH21	1.94	0.79
28:BE:45:THR:OG1	28:BE:80:GLU:O	2.01	0.79
29:BF:154:VAL:HB	29:BF:193:VAL:HG23	1.63	0.79
30:BG:41:GLN:NE2	30:BG:155:MET:HA	1.97	0.79
30:BG:15:VAL:O	30:BG:18:GLU:HB3	1.83	0.79
30:BG:1:MET:HB3	30:BG:2:PRO:CD	2.12	0.79
39:BR:67:ARG:O	39:BR:71:ARG:HG3	1.82	0.79
25:BB:35:U:O2	25:BB:35:U:H2'	1.80	0.79
18:AS:67:THR:O	18:AS:70:ALA:HB3	1.82	0.79
1:AA:1408:A:H2	1:AA:1494:G:HO2'	1.29	0.79
1:AA:279:A:H1'	1:AA:281:G:C4	2.17	0.79
1:AA:600:C:O2'	1:AA:601:C:H5'	1.83	0.79
1:AA:607:A:C2	1:AA:608:A:H1'	2.17	0.79
4:AE:18:GLY:O	4:AE:19:HIS:ND1	2.15	0.79
5:AF:152:ILE:HG22	5:AF:167:TRP:CB	2.13	0.79
6:AG:74:GLN:CA	6:AG:77:ASN:HD22	1.96	0.79
10:AK:9:MET:HG3	10:AK:26:VAL:HG11	1.65	0.79
19:AT:7:THR:HG23	19:AT:57:VAL:O	1.81	0.79
20:AU:74:ARG:HA	20:AU:79:LEU:HD11	1.65	0.79
21:AV:62:ILE:HG12	21:AV:67:VAL:HG22	1.64	0.79
54:B7:42:ARG:HB3	54:B7:43:GLN:HE22	1.47	0.79
54:B7:4:MET:CE	54:B7:62:LEU:HG	2.13	0.79
24:BA:1001:A:H2'	24:BA:1002:G:O4'	1.81	0.79
24:BA:1062:G:N2	33:BL:91:PRO:HG3	1.98	0.79
24:BA:1439:A:H2'	24:BA:1440:G:H5'	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1691:C:O2'	24:BA:1692:U:H5'	1.82	0.79
24:BA:1935:G:C2'	24:BA:1962:C:H42	1.95	0.79
24:BA:1967:C:H42	24:BA:1968:G:H21	1.29	0.79
24:BA:2734:A:N6	24:BA:2770:G:H1'	1.96	0.79
24:BA:396:G:OP1	50:B3:10:VAL:HG22	1.83	0.79
24:BA:641:C:C2'	24:BA:642:G:H5'	2.12	0.79
24:BA:704:G:H21	24:BA:725:G:H21	1.29	0.79
24:BA:997:G:C8	24:BA:997:G:OP2	2.35	0.79
27:BD:112:GLN:N	27:BD:115:GLN:NE2	2.31	0.79
28:BE:116:VAL:O	28:BE:120:TRP:CD1	2.36	0.79
29:BF:134:GLY:O	29:BF:166:ALA:HB2	1.83	0.79
31:BH:101:ARG:HD3	31:BH:117:PRO:HG3	1.64	0.79
34:BM:16:ILE:HD11	34:BM:52:VAL:CG2	2.09	0.79
34:BM:42:TRP:NE1	41:BT:64:ARG:HG2	1.98	0.79
35:BN:39:ILE:HD13	35:BN:39:ILE:N	1.98	0.79
24:BA:2394:C:OP1	36:BO:57:THR:HA	1.81	0.79
38:BQ:97:VAL:HG22	38:BQ:114:VAL:HG11	1.65	0.79
38:BQ:33:ARG:HA	38:BQ:115:GLU:HB3	1.64	0.79
44:BW:18:TYR:HA	44:BW:21:PHE:CD1	2.18	0.79
46:BY:161:VAL:O	46:BY:162:GLU:HB2	1.83	0.79
24:BA:2123:G:H4'	26:BC:172:HIS:CD2	2.17	0.79
1:AA:1234:C:H4'	1:AA:1364:U:H1'	1.65	0.79
1:AA:132:C:C2	1:AA:231:G:N2	2.51	0.79
1:AA:1519:A:H2'	1:AA:1520:G:H5'	1.65	0.79
1:AA:154:C:O2'	1:AA:155:C:H5'	1.83	0.79
1:AA:397:A:H2	1:AA:548:G:O6	1.66	0.79
12:AM:49:VAL:HG12	16:AQ:45:ARG:HD2	1.64	0.79
1:AA:375:U:H4'	18:AS:17:TYR:CE2	2.17	0.79
21:AV:3:ARG:NH2	21:AV:69:HIS:ND1	2.29	0.79
24:BA:1009:A:O2'	41:BT:62:ILE:HD13	1.83	0.79
24:BA:1078:U:H5''	24:BA:1079:C:OP1	1.81	0.79
24:BA:1119:C:H2'	24:BA:1120:G:H8	1.47	0.79
24:BA:1797:C:H2'	24:BA:1798:U:C6	2.18	0.79
24:BA:2007:C:H4'	24:BA:2824:C:O2'	1.83	0.79
24:BA:2606:C:H5'	24:BA:2606:C:H6	1.47	0.79
24:BA:281:G:N2	24:BA:283:A:H5''	1.96	0.79
24:BA:2832:U:H1'	24:BA:2834:G:C2	2.18	0.79
24:BA:470:A:H2'	24:BA:471:A:O4'	1.82	0.79
24:BA:776:G:H1'	24:BA:793:A:N1	1.97	0.79
24:BA:804:A:H5''	24:BA:805:G:OP1	1.82	0.79
25:BB:83:G:O2'	25:BB:84:C:H5'	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:87:ASN:HD22	27:BD:87:ASN:H	1.31	0.79
28:BE:197:ILE:HD12	28:BE:197:ILE:H	1.47	0.79
34:BM:42:TRP:O	34:BM:43:THR:HG23	1.81	0.79
34:BM:93:THR:HG22	34:BM:94:HIS:CD2	2.18	0.79
36:BO:121:LYS:N	36:BO:122:PRO:HD3	1.98	0.79
24:BA:1242:A:H2	36:BO:6:LEU:HD21	1.48	0.79
36:BO:95:VAL:C	36:BO:97:PRO:HD2	2.03	0.79
37:BP:74:TYR:CD2	37:BP:74:TYR:N	2.49	0.79
38:BQ:36:THR:HB	38:BQ:40:LYS:CD	2.12	0.79
39:BR:57:LYS:HZ3	39:BR:62:LYS:HG3	1.48	0.79
40:BS:58:ASN:ND2	40:BS:58:ASN:N	2.30	0.79
44:BW:27:THR:HG22	44:BW:80:ILE:HG23	1.65	0.79
47:BZ:19:LYS:NZ	47:BZ:41:ARG:HE	1.81	0.79
47:BZ:28:GLY:N	47:BZ:67:VAL:HB	1.98	0.79
3:AB:70:G:H2'	3:AB:71:G:C8	2.18	0.79
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.18	0.79
1:AA:179:A:H3'	1:AA:180:U:H5	1.48	0.79
1:AA:243:A:H61	1:AA:283:C:H41	1.30	0.79
1:AA:731:G:H2'	1:AA:732:C:C6	2.18	0.79
1:AA:654:G:N2	1:AA:753:A:H1'	1.98	0.79
4:AE:208:ILE:HG21	4:AE:239:VAL:HG11	1.65	0.79
6:AG:127:THR:O	6:AG:146:ILE:HA	1.81	0.79
6:AG:59:ARG:HH22	6:AG:66:ARG:HH12	1.31	0.79
10:AK:109:ILE:HD11	10:AK:137:VAL:HB	1.64	0.79
14:AO:33:ARG:O	14:AO:84:LEU:HG	1.82	0.79
15:AP:13:LYS:HB3	15:AP:17:VAL:CG1	2.13	0.79
5:AF:12:LEU:HD21	16:AQ:58:LYS:H	1.48	0.79
19:AT:43:LEU:HD22	19:AT:44:ALA:H	1.48	0.79
22:AW:21:LYS:HA	22:AW:24:LEU:HD12	1.63	0.79
23:AX:24:ARG:O	23:AX:25:LYS:HB2	1.83	0.79
49:B2:19:GLN:O	49:B2:23:LEU:HD13	1.82	0.79
50:B3:64:GLY:HA2	50:B3:67:TYR:CD1	2.18	0.79
24:BA:1066:U:HO2'	24:BA:1068:G:H8	1.29	0.79
24:BA:1494:A:N3	24:BA:1494:A:H2'	1.97	0.79
24:BA:1268:A:C6	24:BA:2013:A:N7	2.51	0.79
24:BA:2034:U:C3'	24:BA:2035:G:H5''	2.08	0.79
24:BA:2481:G:O2'	24:BA:2482:G:H5'	1.82	0.79
24:BA:2835:A:H1'	24:BA:2836:U:H5	1.46	0.79
24:BA:312:G:H2'	24:BA:312:G:N3	1.95	0.79
24:BA:568:U:N3	24:BA:571:A:OP2	2.14	0.79
25:BB:27:C:N4	25:BB:56:G:H1	1.79	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:139:PHE:HE2	29:BF:167:ALA:HA	1.48	0.79
30:BG:57:ALA:N	30:BG:68:PRO:HB2	1.98	0.79
30:BG:68:PRO:CB	30:BG:72:ARG:HH22	1.90	0.79
31:BH:164:TYR:HE2	31:BH:167:GLU:N	1.80	0.79
24:BA:2093:G:H5'	32:BK:25:TYR:CD1	2.18	0.79
33:BL:11:GLN:NE2	33:BL:73:PRO:HG2	1.98	0.79
35:BN:97:ARG:CB	35:BN:97:ARG:HH21	1.94	0.79
36:BO:122:PRO:HB2	36:BO:138:LEU:HB2	1.65	0.79
37:BP:34:LEU:O	37:BP:103:MET:CB	2.29	0.79
38:BQ:74:LYS:HB2	38:BQ:74:LYS:HZ2	1.48	0.79
39:BR:92:TYR:CZ	39:BR:93:LYS:HB3	2.18	0.79
45:BX:75:ILE:HG22	45:BX:100:ALA:CB	2.12	0.79
45:BX:82:PRO:HG3	45:BX:97:ARG:N	1.98	0.79
3:AD:58:A:O2'	3:AD:59:U:OP1	2.00	0.79
24:BA:2129:C:OP1	26:BC:6:ARG:HG3	1.83	0.79
26:BC:77:ILE:HD12	26:BC:123:VAL:CG1	2.12	0.79
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.48	0.79
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.18	0.79
1:AA:1465:C:H2'	1:AA:1465:C:O2	1.82	0.79
1:AA:1480:G:O2'	1:AA:1481:U:H5'	1.81	0.79
1:AA:261:U:H2'	1:AA:263:A:OP2	1.83	0.79
1:AA:619:U:O2	6:AG:135:LEU:HD11	1.82	0.79
4:AE:101:MET:CB	4:AE:108:ILE:HG13	2.13	0.79
7:AH:11:ILE:HG22	7:AH:12:LEU:N	1.97	0.79
8:AI:53:ALA:HB1	8:AI:86:ARG:NH1	1.98	0.79
11:AL:117:HIS:O	11:AL:119:ALA:N	2.12	0.79
1:AA:718:G:H4'	13:AN:117:ASN:HD21	1.48	0.79
14:AO:87:GLY:HA2	14:AO:98:TYR:HB3	1.64	0.79
1:AA:1227:A:C8	15:AP:117:VAL:HG21	2.18	0.79
53:B6:8:ASN:HB3	53:B6:11:LYS:HB3	1.65	0.79
24:BA:1142:U:C6	24:BA:1142(A):A:H8	2.01	0.79
24:BA:120:U:H2'	24:BA:120:U:O2	1.82	0.79
24:BA:1533:C:C2	24:BA:1539:G:N2	2.51	0.79
24:BA:1935:G:H3'	24:BA:1962:C:H42	1.48	0.79
24:BA:205:G:O2'	24:BA:206:U:P	2.40	0.79
24:BA:1128:A:H62	24:BA:2518:A:H61	0.79	0.79
24:BA:2520:C:O2'	24:BA:2521:C:H5'	1.83	0.79
24:BA:657:U:H2'	24:BA:658:C:H6	1.48	0.79
24:BA:781:A:H2	24:BA:1776:G:N3	1.81	0.79
24:BA:906:G:N3	24:BA:906:G:H2'	1.98	0.79
27:BD:177:LEU:HD23	27:BD:177:LEU:H	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:64:ILE:O	27:BD:65:ILE:HD13	1.82	0.79
28:BE:54:GLN:CD	28:BE:56:PRO:HD2	2.03	0.79
29:BF:9:ILE:HG21	29:BF:124:LEU:CB	2.12	0.79
30:BG:139:LEU:HD13	30:BG:142:PRO:HA	1.65	0.79
30:BG:75:LYS:HB3	30:BG:84:LYS:N	1.98	0.79
31:BH:77:LYS:O	31:BH:80:SER:OG	2.00	0.79
32:BK:7:GLU:HA	32:BK:14:ASP:CG	2.02	0.79
32:BK:5:LEU:HD12	32:BK:8:PRO:O	1.83	0.79
35:BN:18:LYS:CE	35:BN:44:LYS:HD3	2.12	0.79
38:BQ:61:HIS:CA	38:BQ:64:ARG:HD3	2.13	0.79
43:BV:17:VAL:CG2	43:BV:76:VAL:HG11	2.12	0.79
45:BX:35:TYR:O	45:BX:64:GLU:CB	2.30	0.79
45:BX:38:ILE:HG23	45:BX:60:PHE:CZ	2.18	0.79
46:BY:144:LEU:C	46:BY:174:VAL:HG21	2.02	0.79
46:BY:57:ILE:HG22	46:BY:58:VAL:N	1.96	0.79
26:BC:155:GLU:HG3	26:BC:159:GLY:O	1.83	0.79
1:AA:674:G:H2'	1:AA:675:A:C8	2.17	0.78
1:AA:781:A:N6	1:AA:802:A:C4	2.51	0.78
4:AE:47:THR:HG23	4:AE:202:PRO:HD2	1.63	0.78
4:AE:78:GLN:NE2	4:AE:96:ARG:HH22	1.79	0.78
5:AF:15:THR:O	5:AF:16:ARG:HB3	1.79	0.78
8:AI:14:LEU:HD13	8:AI:18:GLN:HB3	1.63	0.78
9:AJ:126:ASP:HB3	9:AJ:131:LYS:O	1.83	0.78
11:AL:37:PHE:HE1	11:AL:74:ILE:HG23	1.47	0.78
11:AL:79:LEU:CD1	11:AL:101:PHE:HB3	2.14	0.78
14:AO:6:THR:O	14:AO:10:LEU:HB2	1.83	0.78
1:AA:1308:U:H5'	15:AP:110:ARG:HH12	1.45	0.78
1:AA:1216:G:H5''	16:AQ:5:ALA:HB1	1.64	0.78
48:B1:25:ARG:HG3	48:B1:25:ARG:HH21	1.48	0.78
50:B3:10:VAL:N	50:B3:11:PRO:HD3	1.96	0.78
24:BA:1613:G:C3'	24:BA:1614:A:H5'	2.13	0.78
24:BA:1657:C:H6	24:BA:1657:C:O5'	1.66	0.78
24:BA:1685:C:O2'	24:BA:1686:C:H5'	1.83	0.78
24:BA:2006:C:O2'	24:BA:2823:A:N3	2.16	0.78
27:BD:131:LEU:HG	27:BD:135:PHE:CD2	2.18	0.78
27:BD:206:LEU:O	27:BD:206:LEU:HD22	1.83	0.78
29:BF:105:VAL:HA	29:BF:108:LYS:HB2	1.64	0.78
29:BF:130:ALA:O	29:BF:139:PHE:HA	1.83	0.78
24:BA:1059:G:N2	33:BL:130:SER:HB3	1.97	0.78
36:BO:113:LYS:HB2	36:BO:129:ALA:HB1	1.65	0.78
37:BP:122:GLY:HA2	37:BP:125:LEU:HG	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:42:ILE:CD1	37:BP:46:GLN:HB3	2.13	0.78
35:BN:122:LEU:N	40:BS:70:VAL:O	2.15	0.78
41:BT:88:ILE:HG22	42:BU:55:ALA:HB3	1.64	0.78
42:BU:62:LEU:CD1	42:BU:96:ILE:HB	2.02	0.78
46:BY:104:PHE:HA	46:BY:139:VAL:O	1.82	0.78
1:AA:10:A:OP2	7:AH:126:ARG:HD2	1.83	0.78
1:AA:120:A:H2'	1:AA:122:G:N7	1.98	0.78
1:AA:1316:G:H2'	1:AA:1318:A:OP2	1.82	0.78
1:AA:277:C:H5''	19:AT:68:ARG:HH12	1.49	0.78
1:AA:332:G:H2'	1:AA:333:G:H8	1.48	0.78
1:AA:52:G:H2'	1:AA:53:A:C8	2.18	0.78
1:AA:834:C:O2'	1:AA:835:U:H5'	1.83	0.78
5:AF:116:VAL:HG11	5:AF:141:VAL:HG21	1.64	0.78
5:AF:205:GLY:O	5:AF:206:GLU:HB2	1.82	0.78
6:AG:141:ARG:CD	6:AG:142:PRO:HD2	2.12	0.78
7:AH:43:LEU:N	7:AH:65:ASN:HD22	1.81	0.78
10:AK:18:ARG:CG	10:AK:18:ARG:HH11	1.95	0.78
10:AK:39:LEU:HB3	10:AK:45:ILE:HG21	1.65	0.78
14:AO:92:ASP:C	14:AO:93:LEU:HD23	2.04	0.78
15:AP:24:GLY:O	15:AP:29:ARG:HD2	1.84	0.78
1:AA:280:C:H1'	19:AT:38:ARG:NE	1.98	0.78
22:AW:13:LEU:HB2	22:AW:17:ARG:NH2	1.97	0.78
24:BA:1446:C:H2'	24:BA:1447:G:H8	1.48	0.78
24:BA:1493:C:H2'	24:BA:1493:C:O2	1.82	0.78
24:BA:1495:A:H2'	24:BA:1496:A:N7	1.98	0.78
24:BA:1780:A:OP1	24:BA:1780:A:H4'	1.83	0.78
24:BA:1788:C:N4	24:BA:1789:A:N7	2.32	0.78
24:BA:1790:C:O2'	27:BD:209:ALA:HB3	1.83	0.78
24:BA:981:A:N3	24:BA:2037:G:H1'	1.98	0.78
24:BA:2097:C:C2'	24:BA:2098:U:H5'	2.13	0.78
24:BA:2308:G:H4'	24:BA:2308:G:OP1	1.82	0.78
24:BA:2031:A:H62	24:BA:2498:C:H1'	1.48	0.78
24:BA:2828:C:C2	24:BA:2829:C:C5	2.71	0.78
24:BA:307:G:N2	24:BA:309:G:H3'	1.98	0.78
24:BA:898:C:H5'	24:BA:899:A:OP2	1.83	0.78
24:BA:975:G:N1	24:BA:976:C:C6	2.50	0.78
28:BE:176:ILE:HG22	28:BE:181:LEU:O	1.83	0.78
29:BF:6:VAL:HB	29:BF:18:ARG:HD2	1.63	0.78
30:BG:26:GLN:NE2	30:BG:31:VAL:HG21	1.96	0.78
32:BK:38:LEU:HD22	32:BK:39:ALA:N	1.98	0.78
35:BN:59:LYS:HE2	35:BN:59:LYS:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:130:LYS:HE3	37:BP:131:ILE:N	1.98	0.78
37:BP:67:ARG:CZ	37:BP:103:MET:CB	2.55	0.78
40:BS:21:GLU:HG3	40:BS:88:ILE:HD13	1.64	0.78
42:BU:6:LYS:HD3	42:BU:10:LYS:CG	2.13	0.78
46:BY:171:ILE:O	46:BY:171:ILE:HD12	1.83	0.78
46:BY:28:MET:HA	46:BY:28:MET:CE	2.12	0.78
32:BK:66:GLU:CA	32:BK:69:LYS:HD3	2.13	0.78
32:BK:19:VAL:HG12	32:BK:20:ASP:H	1.45	0.78
7:AH:153:LYS:HG2	7:AH:154:GLY:H	1.48	0.78
1:AA:1074:G:H4'	4:AE:103:THR:O	1.82	0.78
1:AA:1389:C:C2'	1:AA:1390:U:H5'	2.13	0.78
1:AA:1418:A:N3	24:BA:1959:G:H1'	1.98	0.78
1:AA:251:G:H22	1:AA:272:C:N4	1.80	0.78
1:AA:520:A:H3'	1:AA:521:G:H5''	1.64	0.78
1:AA:594:G:N7	1:AA:595:G:N2	2.32	0.78
1:AA:704:A:H2'	1:AA:705:U:C6	2.18	0.78
1:AA:944:G:H3'	1:AA:945:G:H5''	1.63	0.78
6:AG:15:GLU:HG2	6:AG:63:LYS:HB3	1.64	0.78
9:AJ:35:LYS:HZ3	9:AJ:38:LEU:HD22	1.46	0.78
1:AA:973:G:H1'	12:AM:55:LYS:H	1.47	0.78
14:AO:47:LYS:N	14:AO:48:PRO:HD3	1.98	0.78
22:AW:21:LYS:O	22:AW:24:LEU:HB2	1.83	0.78
50:B3:52:THR:HG22	50:B3:53:GLU:H	1.48	0.78
24:BA:125:G:H22	53:B6:10:ARG:HA	1.45	0.78
24:BA:1270:C:H1'	24:BA:1325:G:C5	2.18	0.78
24:BA:1672:C:C3'	24:BA:1673:U:H5''	2.14	0.78
24:BA:1993:U:C6	24:BA:1994:C:H5	2.01	0.78
24:BA:574:C:N4	24:BA:2054:A:H5''	1.99	0.78
24:BA:2233:U:H2'	24:BA:2234:G:C8	2.19	0.78
24:BA:2307:G:C4	24:BA:2308:G:H1'	2.18	0.78
24:BA:2335:A:H2'	24:BA:2337:G:N7	1.98	0.78
24:BA:244:A:O2'	36:BO:66:GLY:HA2	1.83	0.78
24:BA:2450:A:O2'	24:BA:2451:A:H5'	1.83	0.78
24:BA:2457:U:H2'	24:BA:2458:G:O4'	1.82	0.78
24:BA:2493:U:H6	24:BA:2493:U:H3'	1.46	0.78
24:BA:1953:A:N3	24:BA:2560:C:H1'	1.97	0.78
24:BA:270(B):A:H5'	24:BA:366:C:O4'	1.82	0.78
24:BA:2880:C:H4'	38:BQ:90:ARG:HD2	1.62	0.78
24:BA:653:A:H5'	24:BA:654:A:O2'	1.83	0.78
24:BA:673:C:H5'	29:BF:82:ILE:HG23	1.65	0.78
24:BA:71:A:C4'	24:BA:72:U:H5''	2.11	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:975:G:N2	24:BA:976:C:O4'	2.17	0.78
28:BE:154:LYS:HZ2	28:BE:156:MET:HB2	1.48	0.78
28:BE:201:THR:C	28:BE:202:LYS:HD3	2.04	0.78
28:BE:7:VAL:HG22	28:BE:192:ASN:HA	1.66	0.78
34:BM:22:THR:HG22	34:BM:61:ARG:NH2	1.98	0.78
24:BA:623:G:H8	36:BO:105:LEU:HB2	1.48	0.78
38:BQ:61:HIS:ND1	38:BQ:64:ARG:CZ	2.46	0.78
44:BW:36:LYS:CD	44:BW:54:VAL:HG12	2.13	0.78
44:BW:47:PHE:CE2	44:BW:89:ILE:HA	2.14	0.78
45:BX:5:MET:SD	45:BX:33:LYS:HE2	2.22	0.78
46:BY:103:ARG:HA	46:BY:103:ARG:HE	1.48	0.78
46:BY:37:VAL:O	46:BY:38:TYR:HD2	1.64	0.78
47:BZ:44:ARG:HE	47:BZ:77:ARG:HD2	1.48	0.78
24:BA:2135:A:H4'	24:BA:2136:C:C6	2.17	0.78
26:BC:73:ARG:HG2	26:BC:92:ASP:OD2	1.82	0.78
24:BA:274:G:N3	24:BA:274:G:H3'	1.98	0.78
1:AA:1378:C:H2'	1:AA:1378:C:O2	1.82	0.78
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.18	0.78
1:AA:589:C:OP1	10:AK:5:PRO:HG2	1.82	0.78
1:AA:633:G:H2'	1:AA:634:C:C6	2.18	0.78
1:AA:67:C:H5'	1:AA:172:A:O2'	1.84	0.78
1:AA:872:A:H2'	1:AA:873:A:H5''	1.65	0.78
4:AE:162:ILE:HD13	4:AE:183:PRO:O	1.84	0.78
4:AE:44:LEU:O	4:AE:48:MET:SD	2.41	0.78
5:AF:159:GLY:N	5:AF:193:TYR:HE1	1.81	0.78
5:AF:31:HIS:ND1	5:AF:34:LEU:HD13	1.99	0.78
5:AF:84:ILE:HG13	5:AF:101:LEU:HD13	1.66	0.78
7:AH:16:THR:HG23	7:AH:28:PHE:HA	1.65	0.78
8:AI:76:ALA:HB3	8:AI:80:ARG:NH2	1.98	0.78
9:AJ:104:LEU:HD23	9:AJ:134:ALA:CB	2.13	0.78
10:AK:65:TYR:O	10:AK:67:PRO:HD3	1.81	0.78
10:AK:82:HIS:NE2	10:AK:84:ARG:HG3	1.99	0.78
13:AN:73:MET:HG2	13:AN:103:LEU:HD13	1.65	0.78
18:AS:8:ARG:HH12	18:AS:11:SER:H	1.30	0.78
19:AT:36:ILE:N	19:AT:36:ILE:HD13	1.99	0.78
24:BA:1639:U:H2'	24:BA:1640:C:H5''	1.64	0.78
24:BA:1725:G:C6	24:BA:1741:C:N4	2.52	0.78
24:BA:1996:C:H2'	24:BA:1997:G:C4'	2.13	0.78
24:BA:209:C:H2'	24:BA:210:C:H5'	1.65	0.78
24:BA:2523:G:H1'	24:BA:2765:A:H62	1.47	0.78
24:BA:536:A:H2'	24:BA:537:C:O4'	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:811:U:O4	36:BO:22:GLY:CA	2.25	0.78
25:BB:17:C:H2'	25:BB:18:G:O4'	1.83	0.78
25:BB:21:G:H2'	25:BB:22:U:O4'	1.84	0.78
25:BB:31:C:C2	25:BB:32:C:H5	2.01	0.78
24:BA:781:A:C1'	27:BD:222:ARG:HH12	1.91	0.78
27:BD:244:ARG:N	27:BD:245:PRO:CD	2.46	0.78
28:BE:169:ASN:HD22	28:BE:170:LEU:H	1.32	0.78
29:BF:156:LEU:HD12	29:BF:167:ALA:HB2	1.65	0.78
29:BF:42:ALA:O	29:BF:45:ARG:HB2	1.82	0.78
30:BG:125:PHE:HB2	30:BG:131:TYR:O	1.82	0.78
33:BL:39:LYS:HA	33:BL:42:ASN:ND2	1.98	0.78
34:BM:15:LEU:HD21	34:BM:137:LYS:C	2.04	0.78
35:BN:16:ALA:HB3	35:BN:45:GLU:HB2	1.64	0.78
39:BR:60:GLY:O	39:BR:62:LYS:N	2.13	0.78
40:BS:53:ARG:NE	40:BS:53:ARG:CA	2.45	0.78
40:BS:64:ARG:O	40:BS:66:VAL:HG22	1.83	0.78
24:BA:1325:G:N2	43:BV:86:LEU:HD13	1.96	0.78
45:BX:108:THR:O	45:BX:109:GLU:HG3	1.83	0.78
32:BK:111:PRO:HG2	32:BK:112:LYS:HD2	1.64	0.78
24:BA:2165:G:H2'	24:BA:2166:G:O4'	1.83	0.78
26:BC:214:VAL:CG2	26:BC:224:ILE:HD13	2.13	0.78
26:BC:59:ARG:HG3	26:BC:60:GLY:H	1.48	0.78
24:BA:182:A:H2'	24:BA:183:C:H6	1.46	0.78
24:BA:1509:C:OP1	24:BA:1510:A:H8	1.66	0.78
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.48	0.78
1:AA:174:C:C2	1:AA:175:C:C5	2.71	0.78
3:AC:47:U:O4	3:AC:49:C:H4'	1.83	0.78
4:AE:147:LYS:HE2	4:AE:147:LYS:HA	1.65	0.78
4:AE:95:GLN:CG	4:AE:148:TYR:HB3	2.13	0.78
4:AE:24:TRP:CH2	4:AE:26:PRO:HA	2.18	0.78
8:AI:78:GLU:O	8:AI:81:ILE:HB	1.83	0.78
1:AA:1320:C:H42	21:AV:36:ARG:HH11	1.29	0.78
48:B1:25:ARG:O	48:B1:28:MET:HB2	1.84	0.78
52:B5:30:THR:HG22	52:B5:31:PRO:HD3	1.64	0.78
53:B6:21:ARG:CB	53:B6:31:LEU:HD11	2.13	0.78
24:BA:1222:C:N4	24:BA:1227:A:H61	1.78	0.78
24:BA:1706:U:H3	24:BA:1757:U:H5"	1.46	0.78
24:BA:1785:A:O5'	24:BA:1982:C:H4'	1.83	0.78
24:BA:1872:A:C2'	24:BA:1878:G:H5'	2.12	0.78
24:BA:1882:C:N3	24:BA:1883:G:H1'	1.98	0.78
24:BA:2238:G:H1'	24:BA:2240:C:H5	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2291:U:OP1	24:BA:2381:C:H5'	1.83	0.78
24:BA:2587:A:H2'	24:BA:2588:G:H5'	1.65	0.78
24:BA:1759:A:H5'	24:BA:2715:C:H1'	1.64	0.78
24:BA:293:U:H6	24:BA:293:U:H3'	1.48	0.78
24:BA:832:G:P	36:BO:35:HIS:HB2	2.23	0.78
25:BB:31:C:C2	25:BB:32:C:C5	2.71	0.78
27:BD:232:PRO:HD2	27:BD:247:ALA:HA	1.65	0.78
24:BA:1805:U:H1'	27:BD:51:VAL:HG11	1.65	0.78
15:AP:7:VAL:CG1	30:BG:140:ILE:HG21	2.13	0.78
30:BG:57:ALA:O	30:BG:67:LYS:HB2	1.84	0.78
30:BG:61:ALA:HB2	30:BG:67:LYS:HE2	1.64	0.78
31:BH:33:LEU:HD13	31:BH:75:ALA:HA	1.66	0.78
32:BK:2:LYS:CD	32:BK:39:ALA:HB2	2.14	0.78
34:BM:109:LYS:HG2	34:BM:112:LEU:HB2	1.64	0.78
34:BM:12:ARG:O	34:BM:12:ARG:HD2	1.84	0.78
34:BM:88:GLU:HB2	34:BM:89:LYS:CE	2.14	0.78
37:BP:134:ARG:NH2	37:BP:137:TYR:CD1	2.51	0.78
37:BP:99:PRO:HG2	37:BP:101:ARG:HE	1.49	0.78
38:BQ:52:ILE:O	38:BQ:52:ILE:HD13	1.83	0.78
40:BS:58:ASN:N	40:BS:61:PHE:CD2	2.51	0.78
43:BV:64:MET:CG	43:BV:109:GLU:HG3	2.13	0.78
46:BY:24:LEU:HD13	46:BY:83:PRO:CD	2.14	0.78
26:BC:113:VAL:HG12	26:BC:138:PRO:HG3	1.65	0.78
26:BC:90:GLY:HA3	26:BC:157:LYS:HB2	1.66	0.78
24:BA:2185:C:H2'	24:BA:2186:G:C8	2.18	0.78
1:AA:1057:G:H4'	5:AF:197:GLY:H	1.49	0.78
1:AA:1375:A:C2	1:AA:1376:U:C2	2.71	0.78
4:AE:192:SER:C	4:AE:194:PRO:HD3	2.03	0.78
4:AE:16:HIS:CE1	4:AE:210:SER:HA	2.19	0.78
5:AF:11:ARG:HH22	5:AF:179:ARG:H	1.30	0.78
6:AG:38:TYR:HB2	6:AG:39:PRO:HD2	1.63	0.78
7:AH:78:HIS:CB	10:AK:104:ARG:HD3	2.14	0.78
11:AL:50:LEU:HD13	11:AL:56:LEU:HG	1.64	0.78
12:AM:24:VAL:HG22	12:AM:34:VAL:HG11	1.65	0.78
13:AN:46:GLY:CA	13:AN:55:LYS:HD2	2.13	0.78
1:AA:1318:A:H4'	21:AV:10:PHE:CD2	2.19	0.78
22:AW:29:LYS:O	22:AW:32:ALA:HB3	1.84	0.78
22:AW:66:ALA:HB3	22:AW:72:LEU:HD12	1.64	0.78
48:B1:27:LEU:HD21	48:B1:48:LEU:HB3	1.64	0.78
50:B3:68:ARG:NH1	50:B3:68:ARG:N	2.25	0.78
51:B4:11:THR:HG23	51:B4:15:ARG:CB	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:21:LYS:NZ	54:B7:21:LYS:HB2	1.98	0.78
54:B7:49:VAL:O	54:B7:53:PRO:HG3	1.82	0.78
24:BA:1203:G:N1	24:BA:1241:A:C8	2.52	0.78
24:BA:1491:G:C3'	24:BA:1492:G:H4'	2.14	0.78
24:BA:2014:A:N3	24:BA:2015:A:N1	2.31	0.78
24:BA:2051:A:OP2	24:BA:2051:A:O4'	2.01	0.78
24:BA:2649:U:H2'	24:BA:2650:U:H6	1.47	0.78
24:BA:270(P):C:H2'	24:BA:270(Q):C:H6	1.49	0.78
24:BA:623:G:P	36:BO:105:LEU:HD21	2.23	0.78
25:BB:31:C:O2	25:BB:53:A:N6	2.17	0.78
27:BD:147:LEU:HB3	27:BD:185:VAL:CG2	2.11	0.78
27:BD:5:LYS:NZ	27:BD:31:LYS:NZ	2.27	0.78
29:BF:8:GLN:C	29:BF:9:ILE:HD12	2.04	0.78
34:BM:100:GLU:OE2	34:BM:100:GLU:HA	1.82	0.78
34:BM:38:HIS:HB3	34:BM:48:MET:CE	2.14	0.78
35:BN:63:VAL:HA	35:BN:78:ARG:HD3	1.63	0.78
36:BO:49:ARG:HG2	36:BO:49:ARG:HH21	1.48	0.78
37:BP:102:VAL:O	37:BP:102:VAL:HG13	1.83	0.78
37:BP:38:GLU:N	37:BP:39:PRO:HD3	1.99	0.78
38:BQ:50:HIS:O	38:BQ:53:HIS:HB3	1.84	0.78
42:BU:67:GLY:O	42:BU:93:GLU:O	2.02	0.78
45:BX:14:LEU:HD22	45:BX:19:LYS:HB2	1.65	0.78
46:BY:122:ARG:HG2	46:BY:170:THR:O	1.83	0.78
26:BC:134:ARG:HD3	26:BC:136:LEU:HD12	1.66	0.78
1:AA:262:A:H2'	1:AA:263:A:N7	1.97	0.78
1:AA:748:C:C6	1:AA:748:C:O5'	2.36	0.78
9:AJ:36:LYS:HA	9:AJ:36:LYS:NZ	1.98	0.78
10:AK:115:SER:C	10:AK:116:LYS:HD2	2.04	0.78
10:AK:88:LYS:NZ	10:AK:88:LYS:H	1.81	0.78
15:AP:55:ARG:HH21	15:AP:56:LEU:HD21	1.45	0.78
17:AR:32:LEU:O	17:AR:36:ILE:HB	1.83	0.78
19:AT:5:VAL:HG12	19:AT:6:LEU:N	1.98	0.78
20:AU:67:ALA:HA	20:AU:70:ILE:HD12	1.64	0.78
53:B6:21:ARG:HB3	53:B6:31:LEU:CD1	2.13	0.78
24:BA:630:G:C5'	54:B7:46:ARG:HH12	1.97	0.78
24:BA:1179:C:HO2'	24:BA:1180:C:H6	0.78	0.78
24:BA:1419:A:H3'	24:BA:1420:U:C2	2.18	0.78
24:BA:1324:G:C1'	24:BA:1616:A:N6	2.45	0.78
24:BA:2043:C:H6	24:BA:2043:C:OP1	1.67	0.78
24:BA:2698:U:H2'	24:BA:2699:C:C5	2.18	0.78
24:BA:516:C:O2'	24:BA:517:C:H5'	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:673:C:H2'	24:BA:674:G:C5'	2.13	0.78
24:BA:865:C:H42	24:BA:909:A:H62	1.28	0.78
24:BA:878:A:H2'	24:BA:879:G:H5''	1.66	0.78
24:BA:8:A:H5''	34:BM:51:PHE:CE2	2.18	0.78
24:BA:996:A:H2'	24:BA:997:G:C8	2.17	0.78
24:BA:1799:G:O6	27:BD:177:LEU:HD12	1.84	0.78
31:BH:153:LYS:HB2	31:BH:162:ILE:CG2	2.14	0.78
35:BN:96:THR:CA	35:BN:117:LEU:HD11	2.12	0.78
36:BO:59:LEU:HD12	36:BO:60:MET:SD	2.24	0.78
37:BP:8:LYS:CE	37:BP:93:TYR:HB3	2.14	0.78
40:BS:53:ARG:CB	40:BS:65:LYS:O	2.29	0.78
24:BA:1615:C:C2	43:BV:87:PRO:HG3	2.19	0.78
44:BW:12:VAL:HG23	44:BW:28:PHE:CA	2.12	0.78
46:BY:53:ILE:O	46:BY:54:HIS:ND1	2.16	0.78
26:BC:180:PHE:CE2	26:BC:184:LYS:HD3	2.19	0.78
26:BC:22:ILE:HD13	26:BC:190:ARG:NH1	1.99	0.78
34:BM:6:PRO:HA	34:BM:41:ASP:CB	2.13	0.78
1:AA:279:A:H1'	1:AA:281:G:N3	1.98	0.78
1:AA:331:G:OP1	1:AA:332:G:H8	1.67	0.78
1:AA:486:U:H2'	1:AA:487:A:O5'	1.84	0.78
1:AA:501:C:H1'	1:AA:549:C:H1'	1.66	0.78
3:AD:76:A:H3'	24:BA:2432:A:H4'	1.66	0.78
6:AG:12:CYS:CA	6:AG:19:LEU:HB2	2.13	0.78
6:AG:198:VAL:HG23	6:AG:199:ASN:H	1.48	0.78
6:AG:205:GLU:OE2	7:AH:100:VAL:HB	1.82	0.78
7:AH:48:ALA:HB1	7:AH:53:LEU:HD12	1.66	0.78
9:AJ:143:ARG:HD2	9:AJ:144:MET:H	1.49	0.78
12:AM:25:GLU:O	12:AM:28:ARG:HB2	1.84	0.78
1:AA:751:U:H4'	17:AR:24:SER:OG	1.83	0.78
19:AT:5:VAL:CG1	19:AT:59:ILE:O	2.31	0.78
50:B3:38:LYS:HG2	50:B3:39:CYS:H	1.47	0.78
24:BA:397:G:P	50:B3:41:PRO:HG3	2.23	0.78
51:B4:17:ASP:O	51:B4:19:ARG:N	2.16	0.78
24:BA:141:A:C2	24:BA:141(A):C:O4'	2.37	0.78
24:BA:1864:U:C2'	24:BA:1869:G:H5'	2.14	0.78
24:BA:2073:C:C2'	24:BA:2074:U:H5'	2.14	0.78
24:BA:2718:G:H2'	24:BA:2719:G:H8	1.49	0.78
24:BA:535:C:O2'	24:BA:536:A:H5'	1.83	0.78
24:BA:602:G:H8	24:BA:602:G:O5'	1.66	0.78
24:BA:776:G:O2'	24:BA:777:A:OP2	2.02	0.78
28:BE:147:PRO:HB2	28:BE:149:ARG:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:60:ASN:HA	28:BE:63:LEU:HD12	1.64	0.78
30:BG:12:TYR:HA	30:BG:15:VAL:CG2	2.14	0.78
31:BH:26:VAL:HG21	31:BH:75:ALA:HB1	1.66	0.78
31:BH:89:ILE:HD12	31:BH:90:LYS:N	1.99	0.78
32:BK:15:VAL:HG12	32:BK:16:GLY:N	1.99	0.78
34:BM:54:VAL:HG12	34:BM:122:VAL:CB	2.14	0.78
35:BN:37:ASP:N	35:BN:61:VAL:HB	1.99	0.78
36:BO:15:ARG:CZ	36:BO:16:ARG:H	1.97	0.78
24:BA:2484:G:H1'	37:BP:124:LYS:NZ	1.98	0.78
39:BR:26:LEU:HD22	39:BR:27:SER:N	1.98	0.78
39:BR:3:ARG:CG	39:BR:4:LEU:HG	2.12	0.78
44:BW:49:VAL:HG12	44:BW:88:LYS:HG3	1.65	0.78
24:BA:1312:U:H5'	44:BW:63:LYS:HE3	1.65	0.78
24:BA:2114:A:H2'	24:BA:2115:G:H5'	1.64	0.78
26:BC:22:ILE:O	26:BC:25:ALA:HB3	1.83	0.78
33:BL:98:ARG:HD3	33:BL:139:VAL:CB	2.14	0.78
33:BL:95:LYS:HD3	33:BL:98:ARG:HH21	1.48	0.78
1:AA:1313:U:H5	21:AV:4:SER:HB2	1.46	0.78
1:AA:192:U:H1'	22:AW:103:GLY:HA2	1.66	0.78
1:AA:759:A:H4'	1:AA:881:G:OP1	1.84	0.78
1:AA:872:A:O2'	1:AA:873:A:OP1	2.01	0.78
1:AA:947:G:O2'	1:AA:948:C:H5'	1.82	0.78
4:AE:88:ALA:HA	4:AE:219:VAL:HG13	1.66	0.78
1:AA:404:U:C4'	6:AG:122:ARG:HH11	1.96	0.78
9:AJ:106:GLN:HE21	9:AJ:106:GLN:CA	1.95	0.78
9:AJ:78:ARG:HB2	9:AJ:156:TRP:CH2	2.19	0.78
7:AH:152:ARG:NH2	10:AK:43:GLY:HA3	1.97	0.78
12:AM:22:LYS:HZ2	12:AM:90:LEU:HD12	1.48	0.78
14:AO:84:LEU:HG	14:AO:85:ILE:H	1.48	0.78
1:AA:1329:A:H5'	15:AP:29:ARG:NE	1.98	0.78
15:AP:14:ARG:HG2	15:AP:44:ARG:NH1	1.99	0.78
17:AR:39:LEU:HD22	17:AR:56:LEU:HD22	1.66	0.78
18:AS:31:LYS:HB3	18:AS:31:LYS:NZ	1.98	0.78
19:AT:19:VAL:CG2	19:AT:46:ASP:HB2	2.13	0.78
22:AW:40:ALA:HA	22:AW:55:ILE:HD12	1.66	0.78
52:B5:16:CYS:HB3	52:B5:49:HIS:CG	2.18	0.78
52:B5:25:LYS:HE2	54:B7:35:GLN:HB3	1.65	0.78
24:BA:72:U:O4	24:BA:112:U:H1'	1.82	0.78
24:BA:1264:G:C3'	24:BA:1265:A:H5''	2.14	0.78
24:BA:1710:C:H2'	24:BA:1711:C:C6	2.16	0.78
24:BA:1842:G:O2'	24:BA:1843:C:H5'	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:190:A:H2'	24:BA:191:A:H8	1.48	0.78
24:BA:2488:A:O2'	24:BA:2489:G:H5'	1.84	0.78
24:BA:2591:C:C2'	24:BA:2592:G:H8	1.92	0.78
24:BA:2825:C:H6	24:BA:2825:C:O5'	1.65	0.78
24:BA:668:G:H2'	24:BA:670:A:H62	1.49	0.78
24:BA:774:A:H1'	24:BA:775:G:C8	2.18	0.78
24:BA:851:U:H4'	49:B2:46:ASN:HA	1.65	0.78
25:BB:77:U:H2'	25:BB:78:A:C8	2.19	0.78
27:BD:146:GLU:HB2	27:BD:154:LYS:N	1.97	0.78
30:BG:8:LYS:HZ1	30:BG:176:LEU:HD11	1.48	0.78
31:BH:74:ASN:HB2	31:BH:138:LYS:NZ	1.99	0.78
37:BP:134:ARG:NE	37:BP:137:TYR:HA	1.98	0.78
39:BR:75:GLU:HA	39:BR:78:LEU:HB3	1.66	0.78
40:BS:26:ASP:HA	40:BS:100:TYR:OH	1.84	0.78
24:BA:1225:C:O4'	42:BU:87:HIS:HE1	1.67	0.78
24:BA:494:G:H5'	43:BV:7:ALA:HA	1.66	0.78
47:BZ:37:LEU:N	47:BZ:37:LEU:HD23	1.99	0.78
26:BC:77:ILE:HG22	26:BC:119:VAL:HG21	1.64	0.78
26:BC:123:VAL:HG11	26:BC:138:PRO:HG2	1.66	0.78
3:AC:44:G:C2	3:AC:45:U:H1'	2.18	0.78
1:AA:225:C:C2'	1:AA:226:G:H5'	2.14	0.78
1:AA:520:A:N6	1:AA:529:G:N2	2.32	0.78
1:AA:751:U:H2'	1:AA:752:G:O4'	1.82	0.78
3:AC:24:G:H2'	3:AC:25:C:H6	1.49	0.78
4:AE:102:LEU:HD22	4:AE:176:GLU:CB	2.13	0.78
4:AE:53:ARG:HH12	4:AE:200:ILE:HD12	1.47	0.78
5:AF:17:ASP:HB3	5:AF:18:TRP:HE3	1.49	0.78
5:AF:36:ASP:HA	5:AF:39:ILE:HD12	1.66	0.78
14:AO:5:PRO:HB3	14:AO:10:LEU:HD11	1.66	0.78
14:AO:35:GLY:O	14:AO:82:VAL:HG13	1.82	0.78
20:AU:69:THR:HA	20:AU:72:ARG:HG3	1.66	0.78
24:BA:1050:A:O2'	24:BA:1051:G:H5'	1.83	0.78
24:BA:1779:U:C2'	24:BA:1783:A:H62	1.95	0.78
24:BA:2378:A:C2	24:BA:2379:G:H1'	2.18	0.78
24:BA:2447:G:C3'	24:BA:2499:C:OP2	2.32	0.78
24:BA:2519:U:C6	24:BA:2542:A:C6	2.72	0.78
24:BA:2553:G:N2	24:BA:2554:U:HO2'	1.82	0.78
24:BA:2572:A:C4'	24:BA:2573:C:H5''	2.07	0.78
24:BA:861:A:OP2	24:BA:862:G:OP2	2.02	0.78
27:BD:55:GLY:HA2	27:BD:217:ARG:NE	1.98	0.78
28:BE:9:VAL:HG12	28:BE:192:ASN:HD22	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:200:GLU:HB3	28:BE:202:LYS:NZ	1.98	0.78
30:BG:146:TYR:CE1	30:BG:149:VAL:HA	2.19	0.78
33:BL:18:THR:CA	33:BL:38:VAL:HG21	2.13	0.78
34:BM:36:GLY:O	34:BM:47:ALA:HB3	1.84	0.78
37:BP:134:ARG:HE	37:BP:137:TYR:CA	1.96	0.78
37:BP:43:THR:HG23	37:BP:46:GLN:CB	2.14	0.78
37:BP:6:ARG:HH21	37:BP:8:LYS:HG3	1.49	0.78
1:AA:1432:G:OP1	40:BS:111:ARG:HB2	1.83	0.78
41:BT:79:PHE:CZ	41:BT:83:LEU:HD11	2.19	0.78
41:BT:97:ASP:HA	41:BT:101:ARG:HH21	1.49	0.78
45:BX:46:LYS:HG3	45:BX:58:GLY:H	1.49	0.78
1:AA:339:C:H2'	1:AA:340:U:H6	1.48	0.78
1:AA:130:A:C5	1:AA:264:U:H1'	2.18	0.77
1:AA:67:C:H4'	1:AA:172:A:O4'	1.84	0.77
1:AA:1493:A:N6	3:AB:37:A:H5'	1.98	0.77
3:AC:31:A:H5'	3:AC:32:U:OP2	1.83	0.77
7:AH:100:VAL:CG1	7:AH:107:ARG:HG3	2.14	0.77
7:AH:59:GLY:O	7:AH:62:ALA:HB3	1.85	0.77
13:AN:104:GLN:HE22	13:AN:106:LYS:H	1.31	0.77
13:AN:61:ALA:CB	13:AN:94:ALA:HB2	2.07	0.77
17:AR:6:GLU:N	17:AR:6:GLU:OE2	2.16	0.77
20:AU:37:VAL:HG12	20:AU:41:LYS:CE	2.14	0.77
48:B1:52:ILE:CA	48:B1:55:LEU:HD22	2.14	0.77
50:B3:53:GLU:CG	50:B3:54:GLY:H	1.96	0.77
24:BA:1634:A:O2'	24:BA:1635:G:OP1	2.02	0.77
24:BA:1935:G:HO2'	24:BA:1937:A:H2	0.78	0.77
24:BA:203:C:H3'	24:BA:204:A:H8	1.47	0.77
24:BA:2570:G:N2	24:BA:2571:C:C2	2.52	0.77
24:BA:359:A:O2'	24:BA:360:G:N7	2.14	0.77
24:BA:261:G:C4'	24:BA:608:A:C2	2.65	0.77
24:BA:747:U:O2'	24:BA:748:G:OP1	2.01	0.77
27:BD:78:LYS:HG2	27:BD:114:GLY:O	1.84	0.77
27:BD:176:ARG:HH22	27:BD:270:ILE:CD1	1.98	0.77
28:BE:108:SER:OG	28:BE:164:ARG:CA	2.31	0.77
30:BG:131:TYR:HB2	30:BG:159:VAL:H	1.49	0.77
30:BG:141:PHE:C	30:BG:143:GLU:N	2.36	0.77
24:BA:2312:U:HO2'	30:BG:40:ASN:CG	1.86	0.77
31:BH:110:SER:C	31:BH:112:PRO:HD2	2.04	0.77
33:BL:12:LEU:CD2	33:BL:22:PRO:HB2	2.14	0.77
36:BO:46:LYS:O	36:BO:46:LYS:HD2	1.83	0.77
38:BQ:12:ARG:NH1	38:BQ:16:HIS:HB3	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:37:THR:HG23	38:BQ:40:LYS:HD2	1.66	0.77
40:BS:1:MET:CG	40:BS:2:ASN:H	1.95	0.77
40:BS:46:GLU:OE1	40:BS:47:GLY:N	2.16	0.77
35:BN:122:LEU:HG	40:BS:71:GLY:C	2.03	0.77
35:BN:122:LEU:CB	40:BS:71:GLY:HA3	2.14	0.77
42:BU:26:ASP:C	42:BU:29:PRO:HD2	2.03	0.77
42:BU:35:LEU:HG	42:BU:36:PRO:HD2	1.66	0.77
42:BU:18:LEU:CD1	42:BU:66:ARG:HH12	1.97	0.77
45:BX:74:PRO:C	45:BX:76:CYS:H	1.86	0.77
46:BY:161:VAL:HG12	46:BY:162:GLU:H	1.48	0.77
46:BY:94:GLU:N	46:BY:95:PRO:CD	2.46	0.77
1:AA:1144:G:H22	1:AA:1146:A:H62	1.29	0.77
1:AA:22:G:H5'	1:AA:885:G:O4'	1.83	0.77
4:AE:145:LEU:O	4:AE:149:LEU:CB	2.32	0.77
6:AG:10:ARG:HD3	6:AG:10:ARG:C	2.05	0.77
14:AO:41:ARG:HG2	14:AO:42:THR:N	1.99	0.77
8:AI:98:LEU:HG	20:AU:28:GLU:CG	2.14	0.77
20:AU:67:ALA:HA	20:AU:70:ILE:CD1	2.13	0.77
22:AW:54:LYS:O	22:AW:57:ARG:HB2	1.84	0.77
23:AX:14:TRP:CZ3	23:AX:15:ARG:CZ	2.67	0.77
48:B1:45:ILE:HG13	48:B1:46:ARG:N	1.99	0.77
55:B8:7:VAL:HG13	55:B8:34:GLN:OE1	1.84	0.77
24:BA:1183:G:H4'	24:BA:1184:G:O5'	1.82	0.77
24:BA:1327:C:H3'	24:BA:1328:G:H8	1.49	0.77
24:BA:1520:U:H2'	24:BA:1521:G:C5'	2.07	0.77
24:BA:1603:A:H3'	24:BA:1603:A:OP2	1.84	0.77
24:BA:2208:U:O2'	27:BD:151:LYS:HD3	1.85	0.77
24:BA:2447:G:C5'	24:BA:2500:U:OP2	2.28	0.77
24:BA:2515:C:O2'	24:BA:2516:G:H5'	1.84	0.77
24:BA:2524:G:H2'	24:BA:2525:G:O4'	1.83	0.77
24:BA:270:A:H2'	24:BA:270(A):A:O4'	1.84	0.77
24:BA:281:G:N3	24:BA:281:G:H2'	1.98	0.77
24:BA:640:C:C2'	24:BA:641:C:C5'	2.60	0.77
24:BA:759:G:H2'	24:BA:760:G:C8	2.16	0.77
24:BA:874:G:H2'	24:BA:874:G:N3	1.99	0.77
24:BA:865:C:N4	24:BA:909:A:H62	1.81	0.77
27:BD:105:ILE:HD12	27:BD:106:ILE:N	1.97	0.77
27:BD:199:ALA:O	27:BD:202:LYS:HB2	1.84	0.77
27:BD:8:PRO:HD2	27:BD:26:LYS:C	2.04	0.77
28:BE:125:GLY:H	28:BE:136:ARG:HA	1.49	0.77
28:BE:203:LYS:HD3	28:BE:203:LYS:O	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:8:LYS:CG	40:BS:6:LEU:HD11	2.13	0.77
30:BG:39:ILE:HD12	30:BG:39:ILE:N	1.99	0.77
31:BH:107:VAL:HG22	31:BH:107:VAL:O	1.82	0.77
33:BL:75:SER:HA	33:BL:78:ILE:HD12	1.64	0.77
37:BP:131:ILE:O	37:BP:132:VAL:HG13	1.84	0.77
37:BP:55:VAL:CG2	37:BP:64:ILE:HD11	2.14	0.77
37:BP:77:LYS:HE2	37:BP:87:LYS:HG3	1.66	0.77
35:BN:122:LEU:HG	40:BS:71:GLY:CA	2.13	0.77
43:BV:59:VAL:HA	43:BV:63:ASP:CA	2.13	0.77
46:BY:43:GLU:O	46:BY:47:VAL:HG23	1.84	0.77
32:BK:97:ILE:O	32:BK:101:LEU:HD23	1.84	0.77
32:BK:82:ARG:O	32:BK:88:ILE:HG23	1.84	0.77
24:BA:1418:G:H1'	24:BA:1579:A:H61	1.50	0.77
1:AA:113:G:H2'	1:AA:114:U:C6	2.18	0.77
1:AA:1181:G:N7	1:AA:1182:G:N3	2.32	0.77
1:AA:1393:U:H4'	1:AA:1501:C:O2'	1.84	0.77
1:AA:714:G:H1'	1:AA:777:A:N7	2.00	0.77
1:AA:663:A:H5'	1:AA:836:G:OP1	1.83	0.77
1:AA:923:A:P	7:AH:21:ALA:HB2	2.25	0.77
3:AB:76:A:H4'	24:BA:2507:C:H4'	1.66	0.77
4:AE:17:PHE:HD1	4:AE:18:GLY:H	1.29	0.77
4:AE:213:LEU:O	4:AE:217:ARG:HD3	1.85	0.77
5:AF:34:LEU:HD23	5:AF:35:GLU:N	1.99	0.77
6:AG:78:LEU:HD13	6:AG:96:LEU:HB3	1.65	0.77
7:AH:118:ILE:C	7:AH:119:LEU:HD23	2.03	0.77
10:AK:123:GLU:CD	10:AK:124:ALA:N	2.38	0.77
10:AK:32:LYS:HG2	10:AK:33:GLU:N	1.97	0.77
11:AL:34:ASN:OD1	11:AL:43:ALA:HB2	1.84	0.77
12:AM:8:LEU:CD1	12:AM:16:LEU:HD13	2.15	0.77
15:AP:23:TYR:O	15:AP:67:GLU:N	2.17	0.77
20:AU:66:LEU:HD12	20:AU:67:ALA:H	1.49	0.77
50:B3:5:ILE:HG23	50:B3:57:GLU:CB	2.15	0.77
24:BA:1263:U:H4'	51:B4:10:LYS:HG3	1.63	0.77
51:B4:47:PRO:C	51:B4:58:LEU:HG	2.05	0.77
51:B4:51:TYR:CD1	51:B4:55:ARG:HD3	2.18	0.77
24:BA:1024:G:H22	24:BA:1139:G:H1	1.32	0.77
24:BA:1205:U:C2'	24:BA:1206:G:N7	2.47	0.77
24:BA:1567:A:H4'	24:BA:1568:G:N2	1.99	0.77
24:BA:1566:A:H2'	24:BA:1567:A:H5'	1.64	0.77
24:BA:1693:U:H5''	24:BA:1694:C:OP2	1.84	0.77
24:BA:2265:U:N3	24:BA:2266:A:N7	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2259:G:H5'	24:BA:2427:C:H3'	1.65	0.77
24:BA:248:G:C2	24:BA:2431:U:H5'	2.19	0.77
24:BA:243:U:H2'	24:BA:243:U:O2	1.84	0.77
24:BA:2553:G:N2	24:BA:2554:U:O2'	2.17	0.77
24:BA:261:G:O2'	24:BA:262:A:H5'	1.83	0.77
24:BA:2653:U:C4	24:BA:2654:A:C6	2.72	0.77
24:BA:13:A:N6	24:BA:525:U:C6	2.53	0.77
24:BA:740:U:O2'	24:BA:741:G:OP1	2.02	0.77
24:BA:1804:C:C4'	27:BD:250:TRP:HH2	1.95	0.77
28:BE:43:GLY:O	28:BE:45:THR:HG22	1.82	0.77
30:BG:107:LEU:HD12	30:BG:111:LEU:HD13	1.64	0.77
24:BA:2749:A:H4'	31:BH:62:LYS:CG	2.14	0.77
34:BM:103:VAL:CG2	34:BM:104:LYS:N	2.47	0.77
35:BN:7:TYR:HB3	35:BN:18:LYS:HZ1	1.45	0.77
24:BA:518:G:H4'	43:BV:18:ARG:NH1	1.98	0.77
45:BX:12:THR:HG21	45:BX:71:LYS:CA	2.14	0.77
32:BK:134:PRO:HB2	32:BK:135:GLU:OE2	1.85	0.77
1:AA:1005:A:H5"	1:AA:1006:C:H5	1.48	0.77
1:AA:1210:C:H4'	1:AA:1214:C:N3	1.98	0.77
1:AA:290:C:H6	1:AA:290:C:O5'	1.66	0.77
4:AE:173:ALA:HA	4:AE:176:GLU:HB2	1.66	0.77
5:AF:91:LEU:HD11	5:AF:99:VAL:N	1.99	0.77
6:AG:74:GLN:O	6:AG:77:ASN:HB2	1.84	0.77
8:AI:65:VAL:HG23	8:AI:66:GLU:O	1.84	0.77
15:AP:3:ARG:NH2	30:BG:141:PHE:H	1.81	0.77
18:AS:8:ARG:HD3	18:AS:15:PRO:HA	1.66	0.77
21:AV:36:ARG:O	21:AV:71:LEU:HB2	1.83	0.77
22:AW:63:ILE:O	22:AW:72:LEU:HD12	1.84	0.77
55:B8:15:LYS:HB2	55:B8:26:ILE:O	1.84	0.77
24:BA:1063:G:N2	24:BA:1076:C:C5	2.52	0.77
24:BA:2415:G:H5"	36:BO:61:ARG:HB2	1.65	0.77
24:BA:2419:U:H5'	52:B5:23:THR:HG21	1.65	0.77
24:BA:2459:A:H2'	24:BA:2460:U:C4'	2.14	0.77
24:BA:2503:A:H4'	24:BA:2504:U:OP1	1.84	0.77
24:BA:2764:A:N7	24:BA:2766:G:C6	2.52	0.77
24:BA:401:A:N6	24:BA:423:A:N1	2.31	0.77
24:BA:740:U:C1'	24:BA:1784:A:N7	2.47	0.77
27:BD:143:HIS:C	27:BD:145:VAL:H	1.86	0.77
27:BD:147:LEU:HA	27:BD:185:VAL:CG1	2.14	0.77
24:BA:1798:U:H5'	27:BD:257:LEU:CD1	2.14	0.77
29:BF:34:TRP:HD1	29:BF:38:ARG:HH11	1.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:72:PRO:HG3	36:BO:110:TYR:CE2	2.18	0.77
36:BO:114:ILE:O	36:BO:114:ILE:HG22	1.84	0.77
36:BO:52:GLU:CA	36:BO:55:ARG:HG3	2.14	0.77
37:BP:118:LEU:CD1	37:BP:131:ILE:HG21	2.15	0.77
37:BP:37:LEU:HD11	37:BP:130:LYS:HB2	1.65	0.77
38:BQ:105:ARG:HG3	38:BQ:106:GLY:H	1.49	0.77
38:BQ:72:ASP:O	38:BQ:76:VAL:HG23	1.83	0.77
1:AA:1431:C:O3'	40:BS:110:ILE:HG23	1.83	0.77
42:BU:35:LEU:O	42:BU:61:VAL:HA	1.84	0.77
44:BW:70:LEU:HD23	44:BW:71:GLY:N	1.98	0.77
46:BY:31:ARG:N	46:BY:89:PHE:HE2	1.82	0.77
47:BZ:31:VAL:HG23	47:BZ:65:GLY:O	1.82	0.77
32:BK:127:VAL:HG22	32:BK:141:LYS:CA	2.13	0.77
1:AA:1089:G:H2'	1:AA:1090:U:H5'	1.65	0.77
1:AA:1453:G:H2'	1:AA:1454:G:O4'	1.85	0.77
1:AA:1488:G:C2	1:AA:1489:G:C8	2.73	0.77
1:AA:979:C:H2'	1:AA:980:C:H5'	1.65	0.77
1:AA:991:U:HO2'	1:AA:993:G:H8	1.30	0.77
11:AL:10:ARG:HA	11:AL:104:ARG:NE	1.98	0.77
1:AA:1372:U:OP2	11:AL:11:LYS:HE2	1.85	0.77
18:AS:56:ALA:CB	18:AS:79:VAL:HG11	2.13	0.77
19:AT:31:LEU:HG	19:AT:31:LEU:O	1.84	0.77
19:AT:28:PRO:HA	19:AT:35:VAL:HA	1.65	0.77
24:BA:1817:G:O2'	24:BA:1818:U:H5'	1.84	0.77
24:BA:2072:G:C6	24:BA:2073:C:N4	2.53	0.77
24:BA:245:G:OP1	36:BO:65:ARG:HD3	1.83	0.77
24:BA:2865:U:C4	24:BA:2866:U:H5	2.02	0.77
24:BA:452:G:H3'	24:BA:453:C:C5'	2.13	0.77
24:BA:861:A:H62	24:BA:916:G:H21	0.80	0.77
24:BA:866:A:N3	24:BA:866:A:H2'	1.98	0.77
24:BA:962:G:N2	24:BA:963:U:C2	2.52	0.77
28:BE:154:LYS:HD2	28:BE:154:LYS:C	2.05	0.77
30:BG:165:THR:HB	30:BG:168:GLU:OE1	1.84	0.77
31:BH:103:LEU:HD22	31:BH:115:VAL:HG21	1.66	0.77
31:BH:85:LYS:CE	31:BH:142:GLY:HA2	2.15	0.77
31:BH:35:VAL:CG2	31:BH:72:ILE:HG23	2.14	0.77
33:BL:7:VAL:HG11	33:BL:67:PHE:CZ	2.20	0.77
35:BN:6:THR:HA	35:BN:7:TYR:CD1	2.19	0.77
24:BA:662:G:H5'	36:BO:17:LYS:H	1.50	0.77
37:BP:23:GLY:N	37:BP:99:PRO:HG3	1.99	0.77
24:BA:2320:A:N6	39:BR:4:LEU:HD13	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:27:THR:O	40:BS:52:ILE:HB	1.84	0.77
41:BT:47:TYR:OH	42:BU:77:ALA:N	2.17	0.77
24:BA:1224:G:H2'	42:BU:87:HIS:CE1	2.18	0.77
45:BX:1:MET:CG	45:BX:67:LEU:HD22	2.14	0.77
46:BY:65:GLN:O	46:BY:67:LEU:HG	1.84	0.77
47:BZ:32:ARG:O	47:BZ:35:ASN:HB2	1.84	0.77
32:BK:81:VAL:HB	32:BK:88:ILE:CG1	2.12	0.77
24:BA:41:C:O2'	24:BA:43:G:H5'	1.84	0.77
1:AA:1464:G:C2'	1:AA:1465:C:H5	1.97	0.77
1:AA:194:C:C2'	1:AA:195:A:H5''	2.14	0.77
1:AA:225:C:O2'	1:AA:226:G:H5'	1.85	0.77
1:AA:735:C:O2'	1:AA:736:C:H5'	1.84	0.77
3:AD:76:A:C4	24:BA:2432:A:O4'	2.38	0.77
4:AE:132:LYS:H	4:AE:132:LYS:HE2	1.48	0.77
5:AF:150:LYS:HB2	5:AF:173:VAL:CG2	2.14	0.77
5:AF:156:ARG:HD2	5:AF:163:ALA:HB2	1.63	0.77
5:AF:19:GLU:HB2	16:AQ:52:GLN:HG2	1.65	0.77
9:AJ:126:ASP:HA	9:AJ:131:LYS:CE	2.10	0.77
9:AJ:88:PRO:HG2	9:AJ:152:ALA:HB2	1.67	0.77
11:AL:3:GLN:HA	11:AL:20:ARG:HG2	1.65	0.77
11:AL:4:TYR:HE1	11:AL:59:PHE:CE2	2.02	0.77
13:AN:42:TRP:HE3	13:AN:43:SER:HA	1.48	0.77
15:AP:37:THR:HB	15:AP:59:TYR:CD2	2.20	0.77
17:AR:39:LEU:HD13	17:AR:56:LEU:HD13	1.65	0.77
17:AR:77:ARG:NH2	17:AR:78:TYR:HA	1.98	0.77
1:AA:761:G:C5'	19:AT:103:GLY:H	1.96	0.77
21:AV:38:SER:HB3	21:AV:71:LEU:CD1	2.15	0.77
53:B6:17:GLY:N	53:B6:21:ARG:HH22	1.81	0.77
24:BA:973:A:C1'	24:BA:1188:U:O4	2.32	0.77
24:BA:1275:A:N6	24:BA:1296:G:O4'	2.17	0.77
24:BA:1312:U:C5	44:BW:62:LYS:HG3	2.20	0.77
24:BA:1543:A:C3'	24:BA:1544:C:H4'	2.09	0.77
24:BA:1670:C:C2'	24:BA:1671:U:H5'	2.15	0.77
24:BA:2053:G:O2'	24:BA:2054:A:H5'	1.85	0.77
24:BA:2282:G:N2	24:BA:2425:A:C8	2.52	0.77
24:BA:2370:G:O2'	52:B5:45:LYS:HD3	1.84	0.77
24:BA:2064:C:C1'	24:BA:2450:A:N6	2.47	0.77
24:BA:2506:U:O2'	24:BA:2507:C:H5'	1.84	0.77
24:BA:30:G:OP1	41:BT:11:ARG:NH2	2.18	0.77
24:BA:319:C:H2'	24:BA:320:A:O4'	1.85	0.77
24:BA:388:G:H1'	24:BA:390:A:N6	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:635:C:O2'	24:BA:636:G:H5'	1.85	0.77
24:BA:948:G:H1'	24:BA:984:A:N3	1.99	0.77
27:BD:9:TYR:CE2	27:BD:25:THR:HG21	2.18	0.77
29:BF:4:VAL:C	29:BF:20:LEU:HD13	2.03	0.77
24:BA:2749:A:H5'	31:BH:62:LYS:O	1.85	0.77
34:BM:57:ALA:O	34:BM:60:ILE:HG13	1.83	0.77
35:BN:23:ARG:CB	35:BN:23:ARG:HH11	1.95	0.77
39:BR:89:ARG:NH1	39:BR:91:PRO:HA	2.00	0.77
24:BA:578:A:H2	41:BT:34:LYS:HZ1	1.30	0.77
32:BK:76:THR:C	32:BK:77:LEU:HD23	2.04	0.77
24:BA:2134:A:H2'	24:BA:2135:A:O5'	1.85	0.77
1:AA:1259:C:O2	1:AA:1283:G:H1'	1.85	0.77
1:AA:1407:C:C2'	1:AA:1408:A:H5'	2.14	0.77
1:AA:1431:C:H2'	1:AA:1432:G:O4'	1.85	0.77
1:AA:599:C:H4'	10:AK:130:GLY:CA	2.08	0.77
1:AA:65:U:H4'	1:AA:66:G:H5''	1.65	0.77
1:AA:687:A:N6	1:AA:703:G:H1'	2.00	0.77
1:AA:768:A:H8	1:AA:768:A:O5'	1.67	0.77
1:AA:789:U:C2	1:AA:791:G:OP2	2.38	0.77
1:AA:842:C:H4'	1:AA:848:C:C2	2.20	0.77
6:AG:134:ASP:O	6:AG:136:PRO:HD3	1.85	0.77
8:AI:96:PRO:O	8:AI:97:PHE:HB2	1.84	0.77
9:AJ:106:GLN:HA	9:AJ:109:ASN:HD22	1.46	0.77
10:AK:45:ILE:HD12	10:AK:48:TYR:HB3	1.67	0.77
11:AL:49:PRO:HB3	11:AL:82:ALA:HB2	1.65	0.77
11:AL:53:VAL:HG21	11:AL:92:TYR:CE1	2.20	0.77
12:AM:34:VAL:HG12	12:AM:35:SER:N	1.99	0.77
12:AM:7:LYS:HG3	12:AM:71:LEU:CD1	2.15	0.77
13:AN:22:HIS:HB2	13:AN:85:ARG:HB2	1.66	0.77
16:AQ:60:SER:O	16:AQ:61:TRP:HB3	1.83	0.77
18:AS:6:LEU:HA	18:AS:18:ARG:O	1.84	0.77
19:AT:50:LYS:HD2	19:AT:51:TYR:CE1	2.19	0.77
19:AT:66:SER:HB2	19:AT:69:LYS:HZ3	1.48	0.77
19:AT:6:LEU:HD13	19:AT:23:VAL:HG21	1.67	0.77
20:AU:61:LYS:O	20:AU:65:ILE:HG12	1.85	0.77
21:AV:41:VAL:CB	21:AV:42:PRO:HD2	2.11	0.77
52:B5:24:GLU:HG2	54:B7:37:SER:CB	2.15	0.77
24:BA:1000:A:H61	24:BA:1155:A:H5'	1.49	0.77
24:BA:1700:A:C2'	24:BA:1701:A:H5'	2.15	0.77
24:BA:1742:C:H2'	24:BA:1743:G:C4'	2.15	0.77
24:BA:2238:G:O2'	24:BA:2239:G:H5''	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2665:A:C8	24:BA:2665:A:C3'	2.66	0.77
24:BA:2638:G:N7	24:BA:2775:A:C6	2.53	0.77
24:BA:2776:A:H4'	24:BA:2777:G:H5''	1.66	0.77
24:BA:311:A:N6	24:BA:329:G:H5'	2.00	0.77
24:BA:499:U:C5	24:BA:500:G:N3	2.53	0.77
24:BA:911:A:O4'	24:BA:2264:C:H4'	1.85	0.77
27:BD:117:VAL:HG11	27:BD:128:GLY:C	2.04	0.77
27:BD:63:ARG:HG3	27:BD:64:ILE:N	2.00	0.77
24:BA:2574:G:H1'	28:BE:143:ASN:ND2	1.99	0.77
30:BG:26:GLN:NE2	30:BG:31:VAL:CG2	2.47	0.77
35:BN:99:PHE:O	35:BN:118:ALA:HB1	1.85	0.77
35:BN:122:LEU:HG	40:BS:71:GLY:HA3	1.64	0.77
35:BN:24:VAL:CG2	35:BN:30:ALA:HA	2.14	0.77
37:BP:65:PHE:O	37:BP:66:ILE:HG13	1.83	0.77
39:BR:78:LEU:C	39:BR:78:LEU:HD22	2.03	0.77
40:BS:50:ILE:HD13	40:BS:76:PHE:HB3	1.66	0.77
41:BT:93:LYS:HB2	42:BU:10:LYS:HD2	1.66	0.77
42:BU:70:ILE:HG23	42:BU:90:PRO:HA	1.65	0.77
46:BY:105:VAL:HB	46:BY:140:ASP:OD2	1.84	0.77
26:BC:97:GLU:CG	26:BC:119:VAL:HB	2.14	0.77
26:BC:108:MET:HE3	26:BC:136:LEU:HD12	1.67	0.77
1:AA:1196:U:H5'	1:AA:1197:G:C5'	2.15	0.77
1:AA:1521:G:O2'	1:AA:1522:U:H5'	1.84	0.77
1:AA:49:U:N3	1:AA:364:A:N7	2.33	0.77
4:AE:136:VAL:O	4:AE:139:LYS:HG2	1.85	0.77
4:AE:25:ASN:HB3	4:AE:191:ASP:HA	1.67	0.77
4:AE:69:LEU:HD22	4:AE:91:PRO:C	2.05	0.77
5:AF:150:LYS:HA	5:AF:169:ALA:CB	2.15	0.77
5:AF:38:ARG:CB	5:AF:94:LEU:HD11	2.15	0.77
8:AI:76:ALA:HA	8:AI:79:LEU:CD1	2.15	0.77
12:AM:87:THR:O	12:AM:88:LEU:HD23	1.84	0.77
17:AR:10:LYS:O	17:AR:13:GLN:HB2	1.85	0.77
21:AV:16:LEU:O	21:AV:19:VAL:HG12	1.84	0.77
21:AV:25:LYS:C	21:AV:25:LYS:HD2	2.06	0.77
21:AV:62:ILE:HD11	21:AV:67:VAL:CA	2.14	0.77
52:B5:15:GLU:OE2	52:B5:21:TYR:HB3	1.84	0.77
24:BA:686:G:H8	53:B6:7:PRO:HA	1.49	0.77
24:BA:1803:A:H4'	27:BD:257:LEU:CD1	2.15	0.77
24:BA:1913:A:C1'	24:BA:1918:A:N6	2.48	0.77
24:BA:2268:A:H5'	24:BA:2269:A:OP 2	1.85	0.77
24:BA:2551:C:H2'	24:BA:2552:U:C6	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:292:C:H3'	24:BA:293:U:C4	2.20	0.77
24:BA:312:G:O4'	24:BA:312:G:OP1	2.02	0.77
24:BA:663:G:C4'	36:BO:18:ARG:HE	1.98	0.77
24:BA:946:G:H1	24:BA:972:G:H21	1.33	0.77
27:BD:145:VAL:O	27:BD:155:LEU:HB3	1.84	0.77
27:BD:243:GLY:O	27:BD:244:ARG:HB2	1.85	0.77
27:BD:34:VAL:HG22	27:BD:104:TYR:OH	1.85	0.77
27:BD:5:LYS:HZ3	27:BD:31:LYS:HZ1	0.78	0.77
28:BE:58:ARG:HG2	28:BE:63:LEU:HD23	1.66	0.77
31:BH:149:ARG:HG2	31:BH:153:LYS:HD2	1.65	0.77
32:BK:32:PRO:HG2	32:BK:33:ARG:N	1.99	0.77
34:BM:55:VAL:HG21	34:BM:127:ASP:N	1.99	0.77
35:BN:10:VAL:CG1	35:BN:11:ALA:H	1.88	0.77
35:BN:62:VAL:O	35:BN:82:ASN:O	2.03	0.77
35:BN:68:GLU:OE1	35:BN:70:LYS:HE3	1.85	0.77
41:BT:25:TRP:HE3	41:BT:26:GLY:N	1.83	0.77
41:BT:77:SER:O	41:BT:81:HIS:HB2	1.85	0.77
46:BY:110:GLY:CA	46:BY:144:LEU:HB2	2.14	0.77
1:AA:1075:C:H4'	1:AA:1101:A:H62	1.50	0.77
1:AA:110:C:H2'	1:AA:111:G:O4'	1.85	0.77
1:AA:1237:C:O2'	1:AA:1300:G:N2	2.17	0.77
1:AA:1289:A:N6	1:AA:1371:G:O2'	2.18	0.77
1:AA:1516:G:N3	1:AA:1518:A:OP2	2.18	0.77
1:AA:665:A:C2'	1:AA:725:G:N2	2.46	0.77
1:AA:737:A:OP1	8:AI:91:VAL:HA	1.84	0.77
3:AB:52:G:HO2'	24:BA:2470:G:C3'	1.97	0.77
6:AG:203:VAL:O	6:AG:206:PHE:HB3	1.85	0.77
11:AL:48:GLU:OE1	11:AL:48:GLU:HA	1.85	0.77
15:AP:10:PRO:CB	15:AP:18:ALA:HA	2.14	0.77
18:AS:19:ILE:HG13	18:AS:38:TYR:HA	1.66	0.77
19:AT:40:LYS:HB3	19:AT:40:LYS:HZ3	1.48	0.77
19:AT:91:ARG:HA	19:AT:94:ASN:ND2	1.99	0.77
24:BA:2046:G:OP1	51:B4:18:ALA:HB1	1.85	0.77
51:B4:36:CYS:HB2	51:B4:37:LYS:HD2	1.65	0.77
24:BA:1203:G:H1	24:BA:1241:A:H1'	1.50	0.77
24:BA:1368:G:O2'	24:BA:1369:G:H5'	1.83	0.77
24:BA:144:C:H2'	24:BA:145:G:O4'	1.85	0.77
24:BA:1517:G:N2	24:BA:1518:C:C2	2.53	0.77
24:BA:1687:G:C6	24:BA:1688:U:C5	2.73	0.77
24:BA:1954:G:H8	24:BA:1954:G:OP2	1.65	0.77
24:BA:2011:U:H2'	24:BA:2012:G:C8	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2023:G:H5''	24:BA:2617:C:O2'	1.84	0.77
24:BA:2888:C:H2'	24:BA:2889:C:H6	1.50	0.77
24:BA:426:C:H2'	24:BA:427:U:C6	2.20	0.77
24:BA:755:C:H2'	24:BA:756:C:H6	1.50	0.77
24:BA:1258:C:C5'	29:BF:84:VAL:HG21	2.14	0.77
30:BG:144:ILE:HG23	30:BG:147:ASP:OD2	1.85	0.77
30:BG:17:PRO:O	30:BG:20:ILE:HB	1.85	0.77
30:BG:49:ASP:O	30:BG:53:LEU:CB	2.33	0.77
31:BH:85:LYS:NZ	31:BH:142:GLY:HA2	2.00	0.77
32:BK:5:LEU:HD11	32:BK:17:GLN:CB	2.14	0.77
36:BO:28:GLY:O	36:BO:29:LYS:HG3	1.85	0.77
38:BQ:38:VAL:CB	38:BQ:39:PRO:HD3	2.14	0.77
38:BQ:86:ARG:HH11	38:BQ:86:ARG:CB	1.94	0.77
39:BR:23:ARG:HH11	39:BR:42:ASP:HB3	1.48	0.77
39:BR:40:ILE:HG13	39:BR:47:THR:HG23	1.66	0.77
40:BS:26:ASP:HA	40:BS:100:TYR:CZ	2.20	0.77
35:BN:121:VAL:HG13	40:BS:68:TYR:OH	1.82	0.77
41:BT:57:PHE:CD2	41:BT:60:LEU:HD12	2.19	0.77
42:BU:25:LEU:HD23	42:BU:29:PRO:HD3	1.66	0.77
42:BU:36:PRO:N	42:BU:61:VAL:HG22	2.00	0.77
43:BV:24:ILE:HD13	43:BV:36:LEU:HD13	1.67	0.77
43:BV:36:LEU:HD11	43:BV:47:VAL:CG2	2.15	0.77
43:BV:76:VAL:HG22	43:BV:77:ASP:N	1.99	0.77
45:BX:13:VAL:HG13	45:BX:70:SER:HB3	1.65	0.77
32:BK:113:ARG:CZ	32:BK:132:PRO:HB3	2.14	0.77
26:BC:87:GLU:HG3	26:BC:94:VAL:CG2	2.15	0.77
24:BA:1483:G:H1'	24:BA:1507:A:C2	2.20	0.77
1:AA:1267:C:O2	1:AA:1267:C:H2'	1.84	0.77
1:AA:570:G:C2	1:AA:873:A:N1	2.53	0.77
3:AB:60:U:H5''	3:AB:61:C:OP2	1.85	0.77
4:AE:144:ARG:HA	4:AE:147:LYS:CB	2.15	0.77
5:AF:122:GLU:CA	5:AF:125:GLU:HG2	2.15	0.77
6:AG:135:LEU:HD12	6:AG:138:TYR:HB2	1.65	0.77
7:AH:79:GLU:HG3	7:AH:93:PRO:HD2	1.66	0.77
11:AL:16:ARG:HE	11:AL:18:PHE:HZ	1.33	0.77
15:AP:3:ARG:CZ	30:BG:140:ILE:HB	2.15	0.77
17:AR:26:GLU:O	17:AR:29:VAL:HB	1.84	0.77
22:AW:33:ILE:HD13	22:AW:63:ILE:CA	2.13	0.77
49:B2:26:LEU:HB3	49:B2:35:ARG:HH11	1.50	0.77
24:BA:2815:C:H4'	51:B4:42:PRO:HG3	1.65	0.77
53:B6:43:THR:O	53:B6:46:VAL:HB	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:109:G:N2	24:BA:110:G:H1'	2.00	0.77
24:BA:1123:C:H2'	24:BA:1124:C:C6	2.20	0.77
24:BA:1188:U:O2'	24:BA:1189:A:H5'	1.84	0.77
24:BA:1242:A:C2	36:BO:6:LEU:HD21	2.20	0.77
24:BA:1356:G:O2'	24:BA:1357:U:H5'	1.85	0.77
24:BA:1427:A:H1'	24:BA:1428:C:C5	2.20	0.77
24:BA:1451:C:H2'	24:BA:1457:A:N6	1.99	0.77
24:BA:1602:U:OP2	24:BA:1602:U:N3	2.18	0.77
24:BA:1657:C:OP1	28:BE:136:ARG:NH2	2.18	0.77
24:BA:2096:U:H2'	24:BA:2097:C:C5	2.19	0.77
24:BA:2455:G:H2'	24:BA:2456:C:H6	1.49	0.77
24:BA:242:G:H2'	24:BA:254:G:O6	1.85	0.77
24:BA:2569:G:C2	24:BA:2570:G:C8	2.73	0.77
24:BA:2603:G:OP2	47:BZ:1:MET:HB2	1.84	0.77
24:BA:1638:C:H1'	24:BA:2698:U:O2'	1.85	0.77
24:BA:2700:C:C2'	24:BA:2701:C:H5''	2.14	0.77
24:BA:2777:G:H4'	24:BA:2778:A:H5'	1.66	0.77
24:BA:360:G:H2'	24:BA:361:G:C5'	2.14	0.77
24:BA:49:A:H1'	24:BA:118:A:H61	1.50	0.77
24:BA:64:A:C5'	44:BW:73:ARG:HA	2.15	0.77
24:BA:800:A:O2'	24:BA:801:G:H5''	1.85	0.77
24:BA:861:A:H2'	24:BA:862:G:H5'	1.67	0.77
24:BA:917:A:C3'	24:BA:917:A:C8	2.63	0.77
24:BA:847:U:N3	24:BA:933:A:H2	1.82	0.77
28:BE:136:ARG:HD3	28:BE:136:ARG:O	1.84	0.77
28:BE:52:LEU:HA	28:BE:74:PRO:CA	2.12	0.77
34:BM:97:ARG:O	34:BM:100:GLU:N	2.16	0.77
34:BM:115:ARG:HA	34:BM:118:LYS:CD	2.15	0.77
24:BA:623:G:OP2	36:BO:105:LEU:HD21	1.85	0.77
36:BO:16:ARG:HG2	36:BO:19:VAL:HG13	1.67	0.77
39:BR:62:LYS:O	39:BR:65:VAL:N	2.17	0.77
35:BN:122:LEU:CG	40:BS:71:GLY:HA3	2.15	0.77
46:BY:45:ASP:O	46:BY:46:LYS:C	2.22	0.77
1:AA:20:U:H2'	1:AA:21:G:O4'	1.84	0.76
4:AE:67:THR:HB	4:AE:155:LEU:HD21	1.65	0.76
4:AE:19:HIS:HA	4:AE:39:ILE:HD11	1.67	0.76
4:AE:15:VAL:HG11	4:AE:209:ARG:HB3	1.65	0.76
5:AF:50:ALA:O	5:AF:72:LYS:HD2	1.84	0.76
6:AG:154:ASN:ND2	6:AG:155:LEU:HD22	2.00	0.76
6:AG:83:SER:HA	6:AG:89:THR:OG1	1.85	0.76
7:AH:74:GLY:C	7:AH:115:VAL:HG12	2.04	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:65:ALA:O	9:AJ:69:VAL:HG23	1.85	0.76
9:AJ:76:ARG:NH1	9:AJ:89:MET:HG3	1.99	0.76
11:AL:16:ARG:HG2	11:AL:18:PHE:CZ	2.20	0.76
11:AL:45:ALA:O	11:AL:78:LYS:HB2	1.85	0.76
14:AO:85:ILE:HD11	14:AO:98:TYR:HB2	1.63	0.76
15:AP:40:ASN:OD1	15:AP:42:ALA:HB3	1.84	0.76
17:AR:49:ASP:OD2	17:AR:52:SER:HB2	1.85	0.76
1:AA:392:G:H5'	18:AS:12:LYS:NZ	1.99	0.76
1:AA:1320:C:C4	21:AV:72:GLY:HA3	2.19	0.76
54:B7:12:LYS:HG2	54:B7:13:ARG:HH12	1.50	0.76
24:BA:666:G:O4'	54:B7:3:LYS:HE3	1.85	0.76
54:B7:30:ARG:HD2	54:B7:44:LYS:HD2	1.65	0.76
24:BA:1058:G:H21	33:BL:116:ASN:HD21	1.31	0.76
24:BA:1178:C:C2	24:BA:1179:C:C5	2.73	0.76
24:BA:1252:G:H8	24:BA:1253:A:C1'	1.93	0.76
24:BA:1420:U:H1'	24:BA:1421:G:N7	2.00	0.76
24:BA:1556:C:H2'	24:BA:1557:C:C6	2.21	0.76
24:BA:1935:G:H2'	24:BA:1962:C:N4	2.00	0.76
24:BA:2543:G:N3	24:BA:2765:A:C2	2.52	0.76
24:BA:563:G:H21	41:BT:34:LYS:HE2	1.50	0.76
24:BA:902:C:H2'	24:BA:903:C:H6	1.49	0.76
25:BB:73:A:N6	25:BB:104:A:H1'	2.00	0.76
25:BB:87:G:H8	25:BB:87:G:OP2	1.68	0.76
27:BD:105:ILE:HG13	27:BD:106:ILE:CG1	2.12	0.76
27:BD:18:VAL:C	27:BD:20:ASP:H	1.86	0.76
27:BD:234:GLY:H	27:BD:241:PRO:CG	1.98	0.76
24:BA:1658:C:OP1	28:BE:134:ILE:HD12	1.85	0.76
30:BG:92:VAL:CG1	30:BG:94:LEU:HD22	2.15	0.76
31:BH:8:PRO:HA	31:BH:51:ARG:NH1	2.01	0.76
24:BA:2748:A:O2'	31:BH:66:GLY:HA3	1.85	0.76
35:BN:70:LYS:HE2	35:BN:104:ARG:HG3	1.67	0.76
36:BO:45:LEU:CD2	36:BO:46:LYS:HG3	2.13	0.76
37:BP:122:GLY:HA2	37:BP:125:LEU:CG	2.15	0.76
46:BY:157:LEU:CD2	46:BY:161:VAL:HA	2.15	0.76
26:BC:19:ILE:HG23	26:BC:223:ARG:HG2	1.66	0.76
33:BL:98:ARG:CZ	33:BL:139:VAL:HG21	2.14	0.76
4:AE:139:LYS:HG3	4:AE:140:HIS:H	1.50	0.76
4:AE:32:ILE:HD11	4:AE:40:HIS:HD2	1.50	0.76
4:AE:82:ARG:HA	4:AE:92:TYR:HE1	1.47	0.76
6:AG:63:LYS:HA	6:AG:66:ARG:HD2	1.67	0.76
9:AJ:40:ALA:O	9:AJ:43:PHE:HB3	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:51:GLN:HE22	9:AJ:58:PRO:HG3	1.48	0.76
10:AK:24:THR:O	10:AK:60:ARG:HA	1.84	0.76
13:AN:87:THR:HG22	13:AN:91:ARG:HH22	1.51	0.76
17:AR:7:GLU:HB3	17:AR:10:LYS:HE3	1.66	0.76
52:B5:27:LYS:HG2	52:B5:29:ASN:HD21	1.50	0.76
52:B5:35:GLU:OE2	52:B5:52:VAL:HG13	1.84	0.76
24:BA:1007:C:H2'	24:BA:1008:C:C5	2.21	0.76
24:BA:1021:A:H2'	24:BA:1022:G:OP1	1.85	0.76
24:BA:1313:U:H2'	24:BA:1314:C:C6	2.20	0.76
24:BA:1853:A:H2'	24:BA:1854:A:H8	1.49	0.76
24:BA:2449:U:OP1	24:BA:2449:U:C6	2.37	0.76
24:BA:2791:C:H2'	24:BA:2792:G:C8	2.20	0.76
24:BA:527:C:OP1	24:BA:527:C:H4'	1.85	0.76
24:BA:548:A:N6	24:BA:549:G:H21	1.83	0.76
24:BA:786:C:HO2'	24:BA:787:U:H5'	1.48	0.76
24:BA:918:A:C8	25:BB:80:U:H4'	2.21	0.76
25:BB:16:G:H2'	25:BB:17:C:H6	1.50	0.76
28:BE:45:THR:HB	28:BE:81:ILE:CA	2.05	0.76
30:BG:12:TYR:HA	30:BG:15:VAL:HG22	1.65	0.76
30:BG:39:ILE:HD13	30:BG:92:VAL:HG12	1.67	0.76
31:BH:128:PRO:O	31:BH:131:VAL:HB	1.85	0.76
31:BH:28:GLY:CA	31:BH:79:VAL:HB	2.16	0.76
34:BM:66:LYS:HA	34:BM:87:LEU:CD1	2.13	0.76
24:BA:942:G:C3'	36:BO:32:THR:HG22	2.15	0.76
39:BR:70:GLY:HA2	39:BR:73:LEU:HD22	1.67	0.76
40:BS:50:ILE:CD1	40:BS:76:PHE:HB3	2.15	0.76
41:BT:88:ILE:HG12	42:BU:52:VAL:HG13	1.67	0.76
43:BV:75:TYR:O	43:BV:104:THR:HG23	1.85	0.76
25:BB:75:G:H4'	46:BY:36:LYS:CE	2.15	0.76
46:BY:78:LYS:HG3	46:BY:79:ARG:H	1.48	0.76
1:AA:1202:G:H2'	1:AA:1203:C:H6	1.50	0.76
3:AD:37:A:H2'	3:AD:38:A:O4'	1.85	0.76
4:AE:71:VAL:O	4:AE:164:VAL:HG23	1.85	0.76
5:AF:142:MET:HB3	5:AF:170:GLN:NE2	2.00	0.76
5:AF:172:ARG:HH22	5:AF:174:PRO:HG3	1.49	0.76
5:AF:88:ARG:HB2	5:AF:101:LEU:HB2	1.67	0.76
6:AG:145:GLU:O	6:AG:146:ILE:HG23	1.85	0.76
1:AA:540:G:H21	6:AG:42:GLN:NE2	1.81	0.76
7:AH:17:ALA:HA	7:AH:26:PHE:HB3	1.67	0.76
8:AI:11:ASN:HD22	8:AI:86:ARG:NH2	1.83	0.76
9:AJ:69:VAL:CG2	9:AJ:135:VAL:HG22	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:37:A:N6	9:AJ:79:ARG:HH22	1.84	0.76
11:AL:108:VAL:O	11:AL:110:GLU:N	2.17	0.76
12:AM:23:ILE:HG22	12:AM:72:VAL:HG11	1.67	0.76
13:AN:48:ILE:HG23	13:AN:63:LEU:HD13	1.66	0.76
17:AR:36:ILE:HD11	17:AR:60:VAL:HG22	1.66	0.76
18:AS:35:LYS:HD2	18:AS:36:ILE:N	2.00	0.76
19:AT:21:VAL:HG23	19:AT:42:TYR:O	1.85	0.76
24:BA:1066:U:O2'	24:BA:1068:G:H3'	1.84	0.76
24:BA:1083:U:H1'	24:BA:1085:A:C5	2.21	0.76
24:BA:973:A:O4'	24:BA:1188:U:C4	2.38	0.76
24:BA:1388:G:H2'	24:BA:1389:G:H8	1.48	0.76
24:BA:1944:U:C1'	24:BA:1955:U:H6	1.98	0.76
24:BA:1935:G:C3'	24:BA:1962:C:H42	1.98	0.76
24:BA:221:A:O2'	24:BA:222:A:OP2	2.02	0.76
24:BA:2286:A:C4'	24:BA:2287:A:H1'	2.14	0.76
24:BA:2312:U:H5'	30:BG:43:LEU:HD21	1.65	0.76
24:BA:2334:G:O2'	39:BR:15:ARG:HG3	1.84	0.76
24:BA:247:G:H4'	24:BA:386:G:N3	2.00	0.76
24:BA:2586:C:H2'	24:BA:2587:A:H8	1.50	0.76
24:BA:2756:U:C4	24:BA:2758:A:N6	2.54	0.76
24:BA:2784:C:H4'	28:BE:41:LYS:HE2	1.65	0.76
24:BA:530:G:H22	24:BA:2021:C:C3'	1.96	0.76
24:BA:531:C:H5'	24:BA:532:A:C2	2.20	0.76
24:BA:574:C:N1	24:BA:2055:C:H5	1.82	0.76
24:BA:730:C:H2'	24:BA:731:C:C6	2.20	0.76
24:BA:752:A:H62	24:BA:1781:C:C1'	1.98	0.76
24:BA:997:G:O2'	24:BA:998:C:H5'	1.85	0.76
27:BD:136:ILE:HD12	27:BD:173:VAL:HG21	1.67	0.76
28:BE:114:ALA:CB	28:BE:118:LYS:HB2	2.14	0.76
30:BG:141:PHE:CE2	30:BG:145:THR:HA	2.19	0.76
30:BG:55:LYS:HG3	30:BG:148:MET:HB2	1.68	0.76
30:BG:78:SER:HB2	30:BG:82:LEU:HB2	1.65	0.76
31:BH:45:VAL:HG13	31:BH:50:VAL:HG22	1.67	0.76
32:BK:40:THR:O	32:BK:44:LEU:HG	1.85	0.76
34:BM:117:PHE:HA	34:BM:120:LEU:HB3	1.68	0.76
37:BP:96:VAL:HG12	37:BP:98:LYS:HZ3	1.48	0.76
39:BR:49:VAL:CG1	39:BR:80:LEU:HG	2.14	0.76
42:BU:40:LEU:CD1	42:BU:55:ALA:HA	2.15	0.76
45:BX:14:LEU:CD2	45:BX:19:LYS:HB2	2.15	0.76
32:BK:71:ILE:O	32:BK:74:ASN:HB3	1.85	0.76
26:BC:183:GLU:O	26:BC:186:ALA:HB3	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:342:C:H2'	1:AA:343:U:C6	2.21	0.76
1:AA:961:U:H1'	1:AA:1201:A:H61	1.49	0.76
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.19	0.76
1:AA:186(B):C:O2'	1:AA:186(C):G:H5'	1.85	0.76
1:AA:236:G:H5'	19:AT:42:TYR:OH	1.86	0.76
1:AA:397:A:O2'	1:AA:398:C:H3'	1.84	0.76
3:AC:2:C:H5'	47:BZ:7:LEU:O	1.85	0.76
3:AC:67:C:H2'	3:AC:68:C:H6	1.51	0.76
4:AE:71:VAL:CG2	4:AE:93:VAL:HB	2.14	0.76
5:AF:22:TRP:CB	5:AF:59:ARG:HB3	2.16	0.76
6:AG:143:GLY:HA2	6:AG:185:PHE:CB	2.14	0.76
9:AJ:45:ASP:O	9:AJ:48:LYS:HB2	1.85	0.76
14:AO:113:ARG:NH2	14:AO:115:LYS:O	2.18	0.76
14:AO:32:PHE:CB	14:AO:84:LEU:HD21	2.16	0.76
19:AT:59:ILE:HD12	19:AT:60:ILE:N	1.98	0.76
20:AU:37:VAL:HG12	20:AU:41:LYS:NZ	2.00	0.76
54:B7:8:LYS:HA	54:B7:11:LYS:HD2	1.67	0.76
24:BA:1023:U:H2'	24:BA:1024:G:C5'	2.16	0.76
24:BA:1033:U:C5'	55:B8:16:VAL:HG21	2.16	0.76
24:BA:1315:C:H2'	24:BA:1316:U:H6	1.50	0.76
24:BA:1342:A:H2'	24:BA:1345:C:N4	1.99	0.76
24:BA:1695:G:C2	24:BA:1696:G:O4'	2.38	0.76
24:BA:1835:G:H2'	24:BA:1836:C:H5'	1.67	0.76
24:BA:1854:A:C2	24:BA:1855:G:H1'	2.21	0.76
24:BA:2199:A:C8	24:BA:2199:A:O5'	2.38	0.76
24:BA:2516:G:C4	24:BA:2569:G:N2	2.52	0.76
24:BA:2658:C:H2'	24:BA:2659:G:H5'	0.86	0.76
24:BA:270(X):G:N1	24:BA:270(Y):G:H1'	2.00	0.76
24:BA:500:G:H2'	24:BA:501:A:H5''	1.67	0.76
24:BA:514:A:C2	24:BA:515:A:C4	2.73	0.76
24:BA:950:G:H2'	24:BA:951:C:C6	2.21	0.76
27:BD:81:ALA:HA	27:BD:113:VAL:HG22	1.68	0.76
27:BD:76:PRO:HA	27:BD:118:VAL:HG22	1.65	0.76
28:BE:171:GLU:OE1	28:BE:172:VAL:N	2.18	0.76
28:BE:32:PRO:CB	28:BE:35:GLN:HE22	1.98	0.76
29:BF:104:LYS:O	29:BF:108:LYS:HE3	1.85	0.76
34:BM:22:THR:HG23	34:BM:25:ARG:NH1	2.01	0.76
37:BP:137:TYR:CE2	46:BY:124:ILE:CD1	2.68	0.76
41:BT:108:GLU:O	41:BT:111:GLU:HG2	1.86	0.76
41:BT:13:LYS:HA	41:BT:16:LYS:NZ	2.01	0.76
43:BV:82:LEU:O	43:BV:97:LYS:HA	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:20:ARG:HB2	46:BY:20:ARG:CZ	2.15	0.76
32:BK:79:ILE:N	32:BK:79:ILE:HD12	2.00	0.76
26:BC:122:ALA:CB	26:BC:126:LYS:HD3	2.14	0.76
26:BC:162:GLU:HG2	26:BC:163:PHE:N	1.98	0.76
26:BC:81:GLU:O	26:BC:84:LYS:HB2	1.84	0.76
24:BA:1511:A:H2'	24:BA:1512:G:H5''	1.68	0.76
24:BA:2187:G:H2'	24:BA:2188:C:H6	1.47	0.76
1:AA:960:U:N3	1:AA:1225:A:N7	2.33	0.76
1:AA:1239:A:H2'	1:AA:1239:A:N3	1.99	0.76
1:AA:1403:C:H1'	1:AA:1500:A:C6	2.20	0.76
1:AA:544:G:H2'	1:AA:545:C:C6	2.20	0.76
7:AH:79:GLU:HG3	7:AH:93:PRO:CD	2.16	0.76
11:AL:112:LYS:HG3	11:AL:117:HIS:HA	1.68	0.76
11:AL:49:PRO:HG3	11:AL:78:LYS:O	1.86	0.76
11:AL:66:ARG:HG2	11:AL:67:GLY:H	1.49	0.76
15:AP:90:LEU:HA	15:AP:93:ARG:HB2	1.67	0.76
54:B7:22:VAL:O	54:B7:48:PHE:CG	2.39	0.76
24:BA:1742:C:H3'	24:BA:1743:G:C5'	2.14	0.76
24:BA:1815:A:H1'	24:BA:1817:G:C4	2.20	0.76
24:BA:1863:G:H2'	24:BA:1864:U:H6	1.48	0.76
24:BA:2059:A:N1	24:BA:2503:A:N6	2.34	0.76
24:BA:2247:A:O2'	24:BA:2248:C:H5'	1.84	0.76
24:BA:2525:G:H5'	24:BA:2526:G:OP2	1.84	0.76
24:BA:2541:A:H2	24:BA:2765:A:H61	1.33	0.76
24:BA:2756:U:C2	24:BA:2758:A:N6	2.54	0.76
24:BA:311:A:H1'	24:BA:332:A:C5	2.21	0.76
24:BA:446:G:N7	41:BT:3:ARG:NH2	2.33	0.76
24:BA:558:G:C2	24:BA:559:G:N7	2.54	0.76
24:BA:567:A:C2	24:BA:568:U:H1'	2.21	0.76
27:BD:175:LEU:HD13	27:BD:175:LEU:C	2.06	0.76
24:BA:1819:A:H5''	27:BD:178:PRO:CB	2.15	0.76
27:BD:229:VAL:HG22	27:BD:230:ASP:OD1	1.85	0.76
28:BE:102:VAL:HA	28:BE:202:LYS:NZ	2.01	0.76
28:BE:98:PRO:HD3	28:BE:175:VAL:HG11	1.65	0.76
28:BE:92:THR:C	28:BE:94:GLU:H	1.88	0.76
29:BF:93:LYS:HE2	29:BF:95:ARG:HG2	1.65	0.76
33:BL:78:ILE:CG2	33:BL:136:VAL:HG11	2.16	0.76
33:BL:23:VAL:CG1	33:BL:34:ILE:HA	2.15	0.76
34:BM:109:LYS:CG	34:BM:112:LEU:HB2	2.16	0.76
34:BM:51:PHE:CG	34:BM:119:ARG:HB2	2.21	0.76
35:BN:11:ALA:N	35:BN:17:ARG:HG3	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:18:LYS:HB3	35:BN:45:GLU:CG	2.14	0.76
35:BN:77:ILE:O	40:BS:75:ILE:HG13	1.85	0.76
36:BO:29:LYS:O	36:BO:30:THR:HG23	1.83	0.76
39:BR:7:TYR:HB3	39:BR:11:LYS:NZ	2.01	0.76
40:BS:103:ARG:O	40:BS:105:LEU:N	2.19	0.76
40:BS:7:ILE:O	40:BS:11:GLU:OE1	2.02	0.76
42:BU:52:VAL:HG12	42:BU:53:GLU:N	2.00	0.76
42:BU:5:VAL:HG11	42:BU:37:VAL:CG1	2.15	0.76
47:BZ:41:ARG:HB3	47:BZ:41:ARG:NH1	2.01	0.76
32:BK:87:LYS:CE	32:BK:121:LYS:HG3	2.13	0.76
26:BC:131:LEU:HB3	26:BC:136:LEU:C	2.06	0.76
26:BC:171:ILE:HD13	26:BC:192:PHE:CZ	2.21	0.76
26:BC:86:ALA:HB2	26:BC:149:ILE:HG23	1.67	0.76
1:AA:865:A:H5'	1:AA:1078:U:O4	1.86	0.76
1:AA:124:G:H2'	1:AA:125:U:O4'	1.85	0.76
1:AA:1405:G:H21	1:AA:1517:G:H22	0.77	0.76
1:AA:1416:G:H2'	1:AA:1417:G:C8	2.21	0.76
1:AA:1408:A:N1	1:AA:1494:G:H1'	2.01	0.76
1:AA:153:C:H2'	1:AA:154:C:H6	1.50	0.76
1:AA:435:C:O2'	1:AA:436:C:H5'	1.86	0.76
1:AA:43:C:H2'	1:AA:44:G:H8	1.50	0.76
1:AA:778:G:H2'	1:AA:779:C:H6	1.49	0.76
1:AA:84:U:H2'	1:AA:85:U:O4'	1.85	0.76
4:AE:212:GLN:O	4:AE:216:SER:HB2	1.85	0.76
4:AE:73:THR:HG21	4:AE:95:GLN:O	1.84	0.76
5:AF:108:ASN:HD22	5:AF:111:LEU:CD1	1.99	0.76
5:AF:11:ARG:HG3	5:AF:16:ARG:HE	1.50	0.76
5:AF:190:ARG:CA	5:AF:190:ARG:HE	1.99	0.76
6:AG:18:LYS:CG	6:AG:33:MET:HB3	2.16	0.76
8:AI:68:PRO:HB2	8:AI:71:ARG:CG	2.15	0.76
13:AN:19:ALA:HB2	13:AN:80:VAL:HG21	1.68	0.76
14:AO:25:PRO:C	14:AO:27:LEU:H	1.84	0.76
14:AO:85:ILE:HG23	14:AO:85:ILE:O	1.84	0.76
19:AT:10:VAL:CG1	19:AT:54:GLY:H	1.99	0.76
48:B1:36:ILE:HG23	48:B1:37:GLY:H	1.49	0.76
51:B4:13:LYS:HD3	51:B4:13:LYS:N	1.96	0.76
52:B5:15:GLU:CD	52:B5:21:TYR:HB3	2.06	0.76
54:B7:16:ILE:HG23	54:B7:22:VAL:CG2	2.15	0.76
24:BA:1204:A:C4'	24:BA:1204:A:OP2	2.34	0.76
24:BA:1345:C:O2'	24:BA:1346:G:H5'	1.86	0.76
24:BA:1731:G:N2	24:BA:1733:G:N2	2.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2318:G:O5'	24:BA:2318:G:H8	1.67	0.76
24:BA:2434:A:C2'	24:BA:2435:A:H5''	2.16	0.76
24:BA:2513:G:H2'	24:BA:2514:U:C6	2.20	0.76
24:BA:2582:G:H5'	24:BA:2582:G:C8	2.20	0.76
24:BA:2653:U:H2'	24:BA:2654:A:C8	2.20	0.76
24:BA:2845:G:H5''	40:BS:57:PHE:O	1.86	0.76
24:BA:39:C:H2'	24:BA:40:C:H6	1.50	0.76
24:BA:860:U:H2'	24:BA:861:A:H5'	1.66	0.76
27:BD:24:ILE:HG21	27:BD:26:LYS:HE2	1.67	0.76
28:BE:25:VAL:HG23	28:BE:182:LEU:O	1.85	0.76
29:BF:201:VAL:HA	29:BF:204:ASN:ND2	2.00	0.76
30:BG:167:GLU:O	30:BG:170:ARG:HB3	1.85	0.76
31:BH:76:VAL:HG23	31:BH:77:LYS:N	2.01	0.76
34:BM:97:ARG:O	34:BM:100:GLU:HB2	1.85	0.76
24:BA:2415:G:OP1	36:BO:61:ARG:NH2	2.17	0.76
38:BQ:54:LEU:HD12	38:BQ:54:LEU:N	2.01	0.76
40:BS:53:ARG:HE	40:BS:53:ARG:HA	1.51	0.76
35:BN:75:SER:OG	40:BS:77:PRO:O	2.04	0.76
44:BW:66:LEU:HG	44:BW:69:TYR:C	2.05	0.76
44:BW:92:LEU:CD1	44:BW:92:LEU:H	1.99	0.76
46:BY:28:MET:HA	46:BY:28:MET:HE2	1.65	0.76
24:BA:2602:A:O2'	47:BZ:1:MET:O	2.03	0.76
32:BK:122:GLU:HB2	32:BK:126:TYR:OH	1.85	0.76
32:BK:78:THR:C	32:BK:79:ILE:HD12	2.06	0.76
24:BA:2135:A:N7	24:BA:2160:G:H1'	1.99	0.76
26:BC:22:ILE:HG23	26:BC:189:ILE:HD12	1.67	0.76
1:AA:1192:C:C5	1:AA:1193:G:C8	2.74	0.76
1:AA:1247:U:H2'	1:AA:1248:A:C8	2.21	0.76
1:AA:1528:U:O2'	1:AA:1529:G:H3'	1.86	0.76
1:AA:601:C:H2'	1:AA:602:A:H8	1.51	0.76
1:AA:962:C:H1'	1:AA:1201:A:N1	1.99	0.76
4:AE:10:LEU:HD23	4:AE:11:LEU:HD23	1.68	0.76
4:AE:130:ARG:HD3	4:AE:131:PRO:HD3	1.66	0.76
4:AE:130:ARG:NE	4:AE:130:ARG:HA	1.99	0.76
4:AE:149:LEU:CD2	4:AE:153:ARG:HG2	2.16	0.76
4:AE:78:GLN:HE22	4:AE:96:ARG:NH1	1.83	0.76
9:AJ:15:ASP:OD1	9:AJ:18:TYR:HB2	1.85	0.76
12:AM:12:ASP:OD1	12:AM:14:LYS:N	2.19	0.76
12:AM:45:ARG:HB3	12:AM:45:ARG:NH1	1.98	0.76
12:AM:6:ILE:HG22	12:AM:98:ILE:HG13	1.66	0.76
13:AN:78:GLN:HB2	13:AN:103:LEU:O	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:10:PRO:HG3	15:AP:18:ALA:HB1	1.68	0.76
17:AR:42:HIS:NE2	17:AR:43:LEU:HD23	1.99	0.76
17:AR:7:GLU:HA	17:AR:10:LYS:CD	2.15	0.76
18:AS:49:LEU:HD22	18:AS:73:LEU:HD21	1.67	0.76
24:BA:1000:A:H2'	24:BA:1001:A:O4'	1.85	0.76
24:BA:1530:G:C2'	24:BA:1531:C:C6	2.69	0.76
24:BA:1541:U:H5''	24:BA:1542:G:OP2	1.86	0.76
24:BA:1559:G:C2	24:BA:1560:G:H4'	2.20	0.76
24:BA:2057:A:H2'	24:BA:2058:A:H8	1.50	0.76
24:BA:219:G:H8	24:BA:219:G:O5'	1.68	0.76
24:BA:2749:A:C4'	31:BH:62:LYS:HG3	2.15	0.76
24:BA:323:G:H2'	29:BF:170:LEU:CB	2.13	0.76
24:BA:326:G:N2	24:BA:337:C:H1'	2.01	0.76
24:BA:355:G:H2'	24:BA:356:G:H8	1.46	0.76
24:BA:580:C:H2'	24:BA:581:C:H6	1.50	0.76
24:BA:621:A:N6	24:BA:622:G:C2	2.53	0.76
24:BA:673:C:C2'	24:BA:674:G:H5'	2.15	0.76
25:BB:28:C:H6	25:BB:28:C:O5'	1.67	0.76
27:BD:58:HIS:O	27:BD:59:LYS:CG	2.34	0.76
24:BA:1658:C:P	28:BE:134:ILE:HB	2.25	0.76
29:BF:158:THR:CG2	29:BF:195:ASP:HB2	2.16	0.76
31:BH:153:LYS:H	31:BH:154:PRO:HD2	1.48	0.76
32:BK:32:PRO:HD2	32:BK:33:ARG:HG2	1.67	0.76
24:BA:557:U:O3'	34:BM:112:LEU:HG	1.86	0.76
36:BO:88:LEU:CD1	36:BO:124:LYS:HZ1	1.97	0.76
38:BQ:102:GLU:CG	38:BQ:103:ARG:H	1.98	0.76
24:BA:2822:G:OP2	38:BQ:4:LEU:HD11	1.85	0.76
40:BS:11:GLU:CD	40:BS:11:GLU:N	2.38	0.76
40:BS:29:ARG:HA	40:BS:51:ARG:HA	1.68	0.76
42:BU:12:TYR:CG	42:BU:13:ARG:N	2.54	0.76
46:BY:114:GLY:HA3	46:BY:180:VAL:HG11	1.68	0.76
47:BZ:47:PRO:HG3	47:BZ:53:MET:SD	2.26	0.76
26:BC:214:VAL:HG23	26:BC:224:ILE:HD13	1.67	0.76
1:AA:1156:G:C1'	1:AA:1179:A:H61	1.96	0.76
1:AA:307:C:N4	1:AA:308:C:H41	1.84	0.76
1:AA:66:G:H5'	1:AA:173:U:O4	1.86	0.76
1:AA:828:A:O4'	1:AA:859:A:C2	2.39	0.76
4:AE:178:ARG:HA	4:AE:184:VAL:HG21	1.67	0.76
4:AE:77:ALA:HB2	4:AE:211:ILE:HD13	1.67	0.76
1:AA:1057:G:H4'	5:AF:197:GLY:N	2.01	0.76
6:AG:108:LEU:HD23	6:AG:174:LEU:HD13	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:170:VAL:HG23	6:AG:176:LEU:HB3	1.68	0.76
6:AG:147:ALA:HB1	6:AG:181:MET:O	1.85	0.76
7:AH:79:GLU:CD	7:AH:79:GLU:H	1.88	0.76
8:AI:33:TYR:HE2	8:AI:74:ASP:HB2	1.50	0.76
9:AJ:86:GLN:O	9:AJ:148:ASN:HB3	1.84	0.76
10:AK:110:ALA:HA	10:AK:136:GLU:HB2	1.66	0.76
11:AL:11:LYS:N	11:AL:104:ARG:HH21	1.83	0.76
11:AL:51:ARG:HH11	11:AL:51:ARG:HA	1.50	0.76
14:AO:117:ARG:HH22	14:AO:124:LYS:HG3	1.51	0.76
18:AS:6:LEU:HB2	18:AS:17:TYR:HB3	1.67	0.76
19:AT:10:VAL:HG12	19:AT:54:GLY:H	1.51	0.76
22:AW:56:MET:O	22:AW:59:ALA:HB3	1.86	0.76
49:B2:54:VAL:CG2	49:B2:55:ARG:H	1.97	0.76
24:BA:2420:C:H5''	54:B7:35:GLN:HE22	1.50	0.76
55:B8:4:ARG:O	55:B8:5:ALA:HB2	1.83	0.76
24:BA:1201:C:N4	24:BA:1241:A:N6	2.33	0.76
24:BA:1451:C:C4	24:BA:1454:U:OP1	2.39	0.76
24:BA:1890:A:H3'	24:BA:1891:G:H8	1.51	0.76
24:BA:574:C:C2	24:BA:2055:C:C5	2.74	0.76
24:BA:2538:C:H2'	24:BA:2539:C:C6	2.21	0.76
24:BA:460:A:H2'	24:BA:461:C:H6	1.50	0.76
24:BA:60:G:H21	24:BA:74:A:C4'	1.99	0.76
24:BA:723:G:O2'	24:BA:724:U:H5'	1.85	0.76
24:BA:59:U:O4'	24:BA:73:A:C2	2.39	0.76
24:BA:775:G:H21	24:BA:787:U:H2'	1.49	0.76
27:BD:112:GLN:O	27:BD:115:GLN:HB3	1.86	0.76
27:BD:147:LEU:HD23	27:BD:147:LEU:H	1.51	0.76
27:BD:159:ALA:C	27:BD:196:VAL:HG21	2.05	0.76
29:BF:119:ARG:HH21	29:BF:119:ARG:CB	1.97	0.76
30:BG:67:LYS:O	30:BG:67:LYS:HG3	1.84	0.76
33:BL:12:LEU:HB3	33:BL:13:PRO:HD2	1.66	0.76
38:BQ:79:LEU:CD2	38:BQ:80:PHE:N	2.47	0.76
40:BS:102:ILE:O	40:BS:104:ASN:N	2.19	0.76
42:BU:16:PRO:HD3	42:BU:100:ARG:NH1	2.00	0.76
42:BU:35:LEU:N	42:BU:61:VAL:HG13	2.01	0.76
42:BU:64:HIS:HA	42:BU:97:LYS:CD	2.14	0.76
26:BC:47:LEU:HG	26:BC:49:ILE:HG23	1.68	0.76
1:AA:337:C:H2'	1:AA:338:A:C8	2.20	0.76
1:AA:511:C:HO2'	1:AA:512:U:H6	1.30	0.76
1:AA:129(A):G:H4'	1:AA:130:A:O5'	1.85	0.76
1:AA:1363:A:H5''	1:AA:1364:U:OP1	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:228:A:C2'	1:AA:229:U:H5'	2.16	0.76
1:AA:301:G:H21	1:AA:302:G:H1'	1.49	0.76
1:AA:522:C:N4	1:AA:523:A:N6	2.33	0.76
1:AA:529:G:H8	1:AA:529:G:H3'	1.48	0.76
3:AC:19:G:H3'	3:AC:20:U:C5	2.21	0.76
3:AC:58:A:H2'	3:AC:61:C:N4	2.01	0.76
4:AE:222:ILE:HD13	4:AE:226:ARG:HH21	1.51	0.76
5:AF:35:GLU:HA	5:AF:38:ARG:CG	2.16	0.76
1:AA:404:U:H4'	6:AG:122:ARG:HH11	1.49	0.76
6:AG:144:ASP:HA	6:AG:184:LYS:NZ	2.00	0.76
10:AK:70:GLN:HE21	10:AK:71:GLY:N	1.84	0.76
1:AA:1202:G:C1'	16:AQ:29:ARG:HE	1.99	0.76
22:AW:72:LEU:HD13	22:AW:77:ALA:CB	2.15	0.76
48:B1:58:VAL:HG22	48:B1:59:LEU:N	2.00	0.76
52:B5:40:CYS:SG	52:B5:46:HIS:HA	2.25	0.76
53:B6:43:THR:C	53:B6:45:ALA:H	1.89	0.76
54:B7:30:ARG:HG2	54:B7:31:HIS:H	1.51	0.76
24:BA:1023:U:P	24:BA:1025:G:N1	2.59	0.76
24:BA:151:C:H2'	24:BA:152:G:C8	2.20	0.76
24:BA:1532:C:H2'	24:BA:1533:C:C6	2.21	0.76
24:BA:1935:G:N1	24:BA:1962:C:H2'	2.00	0.76
24:BA:2431:U:O2	24:BA:2433:A:OP2	2.04	0.76
24:BA:2071:A:C2	24:BA:2441:C:N3	2.54	0.76
24:BA:2595:G:H1'	24:BA:2599:G:N2	2.00	0.76
24:BA:2711:A:H5'	24:BA:2712:U:C5'	2.15	0.76
24:BA:519:U:C6	24:BA:519:U:H5'	2.15	0.76
24:BA:559:G:C8	24:BA:559:G:H5'	2.18	0.76
24:BA:686:G:C8	53:B6:7:PRO:HA	2.21	0.76
24:BA:704:G:H22	24:BA:726:G:H1'	1.48	0.76
24:BA:839:U:H2'	24:BA:840:C:C5	2.21	0.76
27:BD:56:GLY:H	27:BD:217:ARG:CD	1.96	0.76
28:BE:58:ARG:HG2	28:BE:63:LEU:CD2	2.16	0.76
32:BK:28:ASN:O	32:BK:32:PRO:HG3	1.86	0.76
35:BN:4:PRO:CG	35:BN:5:GLN:H	1.88	0.76
35:BN:64:ARG:HG3	35:BN:65:THR:N	2.01	0.76
37:BP:41:TRP:HB3	37:BP:74:TYR:OH	1.86	0.76
38:BQ:55:ALA:CB	38:BQ:79:LEU:HD21	2.15	0.76
39:BR:89:ARG:CG	39:BR:90:GLY:H	1.94	0.76
41:BT:15:LYS:O	41:BT:18:LEU:HB2	1.85	0.76
44:BW:12:VAL:O	44:BW:12:VAL:HG12	1.86	0.76
45:BX:47:LYS:HZ3	45:BX:51:VAL:HG21	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:55:HIS:HB3	46:BY:101:PRO:CG	2.14	0.76
26:BC:64:LEU:CD2	26:BC:191:ALA:HB3	2.15	0.76
1:AA:1265:G:H2'	1:AA:1266:G:H5'	1.68	0.76
1:AA:1492:A:N6	14:AO:50:SER:HB2	2.00	0.76
1:AA:448:A:H2'	1:AA:449:C:C6	2.21	0.76
1:AA:482:A:H2	1:AA:483:C:O4'	1.67	0.76
1:AA:562:C:H5''	1:AA:563:A:OP1	1.85	0.76
1:AA:766:A:H2'	1:AA:767:A:C8	2.20	0.76
1:AA:918:A:H2'	1:AA:919:A:C8	2.21	0.76
3:AC:8:U:O4'	3:AC:48:C:O2'	2.03	0.76
5:AF:137:ALA:O	5:AF:141:VAL:HG23	1.86	0.76
5:AF:67:THR:CG2	5:AF:104:GLN:HG2	2.16	0.76
6:AG:110:PHE:HE1	6:AG:148:VAL:HG23	1.49	0.76
10:AK:103:VAL:HB	10:AK:108:GLY:C	2.06	0.76
12:AM:30:SER:HB2	12:AM:81:THR:N	2.00	0.76
15:AP:14:ARG:H	15:AP:44:ARG:CD	1.99	0.76
23:AX:7:ARG:HG3	23:AX:8:THR:H	1.51	0.76
53:B6:19:ARG:HB3	53:B6:23:ARG:CZ	2.15	0.76
54:B7:5:LYS:HG3	54:B7:10:ALA:HB2	1.67	0.76
55:B8:15:LYS:O	55:B8:25:VAL:HG13	1.86	0.76
24:BA:1309:G:H2'	24:BA:1310:G:H5'	1.65	0.76
24:BA:1403:C:O3'	24:BA:1471:A:H4'	1.86	0.76
24:BA:1406:U:O2'	24:BA:1407:C:O5'	2.02	0.76
24:BA:1708:C:O2'	24:BA:1709:U:H5''	1.84	0.76
24:BA:1805:U:H2'	24:BA:1806:C:C6	2.21	0.76
24:BA:2369:A:H2'	24:BA:2370:G:C8	2.21	0.76
24:BA:2576:G:OP1	24:BA:2577:A:OP1	2.04	0.76
24:BA:270(E):G:O2'	24:BA:270(F):U:H5'	1.86	0.76
24:BA:640:C:O2'	24:BA:641:C:H5''	1.86	0.76
24:BA:643:A:H4'	24:BA:644:A:O5'	1.85	0.76
24:BA:661:C:H5''	36:BO:15:ARG:HH11	1.51	0.76
27:BD:95:LEU:C	27:BD:95:LEU:HD13	2.07	0.76
28:BE:179:GLU:HB2	28:BE:181:LEU:CD1	2.15	0.76
29:BF:125:LEU:HD22	29:BF:127:GLU:O	1.85	0.76
29:BF:81:PRO:HG2	29:BF:82:ILE:HD12	1.67	0.76
31:BH:115:VAL:CG1	31:BH:116:GLU:N	2.49	0.76
34:BM:74:ARG:HG3	34:BM:82:LEU:CD2	2.11	0.76
35:BN:105:GLU:O	35:BN:111:PHE:CZ	2.31	0.76
38:BQ:74:LYS:NZ	38:BQ:74:LYS:HB2	2.01	0.76
38:BQ:55:ALA:HA	38:BQ:79:LEU:HD21	1.68	0.76
39:BR:106:ARG:CZ	39:BR:110:LEU:HD22	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:30:LYS:HD2	41:BT:30:LYS:N	2.01	0.76
41:BT:97:ASP:CA	41:BT:101:ARG:HH21	1.99	0.76
42:BU:78:LYS:HB2	42:BU:84:LYS:HB3	1.68	0.76
45:BX:12:THR:HA	45:BX:73:ARG:CD	2.16	0.76
24:BA:84:A:C5'	45:BX:8:LYS:HG3	2.16	0.76
46:BY:94:GLU:HA	46:BY:130:PRO:HB3	1.68	0.76
3:AD:55:U:C2'	3:AD:57:G:N7	2.49	0.76
24:BA:2128:C:P	26:BC:36:LYS:HB2	2.26	0.76
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.04	0.75
1:AA:498:A:H4'	1:AA:500:G:OP1	1.85	0.75
1:AA:578:C:N4	1:AA:579:G:O6	2.19	0.75
1:AA:601:C:C2	1:AA:602:A:C8	2.74	0.75
1:AA:888:G:N2	1:AA:909:A:N6	2.24	0.75
3:AC:34:G:O2'	3:AC:35:A:H5'	1.86	0.75
4:AE:119:GLU:HA	4:AE:142:LEU:HD13	1.67	0.75
4:AE:95:GLN:HE21	4:AE:148:TYR:CB	1.98	0.75
4:AE:48:MET:HA	4:AE:51:LEU:HD12	1.68	0.75
4:AE:69:LEU:O	4:AE:162:ILE:CA	2.34	0.75
5:AF:40:ARG:O	5:AF:43:LEU:HB3	1.86	0.75
12:AM:60:ARG:H	12:AM:60:ARG:HD3	1.51	0.75
15:AP:90:LEU:HD23	15:AP:93:ARG:CD	2.16	0.75
1:AA:1314:C:H3'	21:AV:6:LYS:CD	2.16	0.75
22:AW:57:ARG:NH2	22:AW:100:ILE:HB	2.01	0.75
48:B1:48:LEU:HA	48:B1:51:GLN:NE2	2.01	0.75
24:BA:1312:U:C3'	24:BA:1313:U:H6	1.97	0.75
24:BA:1349:A:C2	24:BA:1598:C:N3	2.54	0.75
24:BA:1728:G:H3'	24:BA:1728:G:OP1	1.86	0.75
24:BA:1773:A:C4	24:BA:1774:C:O2	2.39	0.75
24:BA:270(Z):U:H2'	24:BA:270(Z):U:O2	1.85	0.75
24:BA:1759:A:HO2'	24:BA:2714:G:HO2'	1.33	0.75
24:BA:324:A:N6	24:BA:339:U:H1'	2.00	0.75
24:BA:247:G:H4'	24:BA:386:G:C2	2.21	0.75
25:BB:48:A:H2'	25:BB:49:C:H6	1.51	0.75
29:BF:131:GLY:CA	29:BF:138:GLU:HG3	2.15	0.75
29:BF:41:LEU:O	29:BF:44:ARG:CZ	2.34	0.75
24:BA:2305:A:C2'	30:BG:154:GLY:HA2	2.15	0.75
31:BH:85:LYS:HD2	31:BH:145:ALA:CB	2.16	0.75
33:BL:112:MET:SD	33:BL:115:LEU:HD12	2.26	0.75
24:BA:1131:G:N2	34:BM:72:TYR:CE1	2.53	0.75
24:BA:2562:U:H1'	35:BN:23:ARG:HH21	1.51	0.75
39:BR:11:LYS:H	39:BR:11:LYS:CD	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:61:PHE:HD1	40:BS:81:PRO:HD3	1.51	0.75
40:BS:80:SER:HB3	40:BS:81:PRO:HD3	1.67	0.75
40:BS:4:GLY:O	40:BS:8:LYS:HG3	1.85	0.75
24:BA:1225:C:O4'	42:BU:87:HIS:CE1	2.39	0.75
44:BW:7:VAL:CG1	48:B1:31:ARG:HH22	1.97	0.75
1:AA:1104:G:O2'	1:AA:1105:A:H5'	1.86	0.75
1:AA:115:G:O2'	1:AA:116:A:OP2	2.04	0.75
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.20	0.75
1:AA:1314:C:H2'	1:AA:1315:U:C5	2.20	0.75
1:AA:1318:A:O2'	21:AV:37:ARG:HB3	1.86	0.75
1:AA:482:A:C2	1:AA:483:C:O4'	2.38	0.75
1:AA:49:U:C2	1:AA:364:A:N6	2.48	0.75
1:AA:889:A:H4'	1:AA:890:G:O5'	1.85	0.75
5:AF:130:VAL:O	5:AF:133:ALA:HB3	1.86	0.75
5:AF:177:THR:HG23	5:AF:180:ALA:HB2	1.68	0.75
6:AG:79:PHE:HB2	6:AG:93:PHE:CE1	2.21	0.75
9:AJ:113:GLU:OE2	9:AJ:119:ARG:HG3	1.86	0.75
11:AL:116:LYS:HB3	11:AL:122:ALA:CA	2.16	0.75
1:AA:539:A:OP2	14:AO:115:LYS:HE3	1.87	0.75
14:AO:60:LEU:C	14:AO:60:LEU:HD22	2.07	0.75
14:AO:82:VAL:HG12	14:AO:83:VAL:H	1.50	0.75
15:AP:7:VAL:HG11	30:BG:140:ILE:HD12	1.68	0.75
18:AS:8:ARG:NH1	18:AS:11:SER:H	1.82	0.75
19:AT:59:ILE:HD11	19:AT:71:PHE:CB	2.15	0.75
48:B1:36:ILE:HG12	48:B1:37:GLY:N	2.01	0.75
49:B2:54:VAL:CG2	49:B2:55:ARG:N	2.49	0.75
50:B3:4:GLY:HA2	50:B3:11:PRO:CB	2.15	0.75
24:BA:242:G:C8	54:B7:4:MET:HG3	2.21	0.75
24:BA:1317:A:H2'	24:BA:1318:C:C6	2.21	0.75
24:BA:149:A:H2'	24:BA:150:C:H5'	1.66	0.75
24:BA:1664:A:C8	24:BA:1664:A:H3'	2.21	0.75
24:BA:2058:A:C2'	24:BA:2059:A:H8	1.98	0.75
24:BA:210:C:H5''	53:B6:29:LYS:HZ1	1.51	0.75
24:BA:2282:G:H1	24:BA:2427:C:N4	1.82	0.75
24:BA:2295:C:H1'	24:BA:2338:G:N2	2.01	0.75
24:BA:2447:G:C8	24:BA:2500:U:C6	2.74	0.75
24:BA:2595:G:H1'	24:BA:2599:G:H22	1.50	0.75
24:BA:2841:C:C2'	24:BA:2842:G:H8	1.98	0.75
24:BA:209:C:H5'	24:BA:681:G:H4'	1.66	0.75
24:BA:727:A:N3	24:BA:728:G:H5'	2.00	0.75
24:BA:861:A:C5	24:BA:917:A:H2	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:980:A:C6	24:BA:1135:C:H4'	2.21	0.75
24:BA:1789:A:H4'	27:BD:222:ARG:CZ	2.16	0.75
27:BD:37:LEU:HD11	27:BD:63:ARG:CA	2.15	0.75
28:BE:121:ASN:HB3	28:BE:122:PHE:CD1	2.22	0.75
28:BE:59:VAL:O	28:BE:63:LEU:HG	1.85	0.75
29:BF:110:LEU:CD1	29:BF:181:LEU:HD23	2.16	0.75
30:BG:131:TYR:CD1	30:BG:132:ASN:N	2.53	0.75
31:BH:83:TYR:O	31:BH:135:GLY:N	2.16	0.75
35:BN:8:LEU:HD22	35:BN:9:GLU:N	2.00	0.75
37:BP:43:THR:HG23	37:BP:46:GLN:HB2	1.68	0.75
24:BA:2848:G:H8	40:BS:99:LEU:HD11	1.51	0.75
32:BK:109:ILE:HG21	32:BK:113:ARG:NH2	2.01	0.75
32:BK:123:LEU:HD11	32:BK:145:VAL:CA	2.14	0.75
26:BC:22:ILE:HD11	26:BC:226:PRO:HA	1.67	0.75
24:BA:487:C:O2'	43:BV:52:GLU:HB3	1.86	0.75
1:AA:1239:A:H1'	1:AA:1241:G:C4	2.21	0.75
1:AA:22:G:H2'	1:AA:23:C:O4'	1.87	0.75
1:AA:243:A:N6	1:AA:283:C:H41	1.83	0.75
1:AA:745:C:OP1	1:AA:851:G:O2'	2.04	0.75
1:AA:8:A:N6	6:AG:209:ARG:HH12	1.84	0.75
3:AC:66:U:H3'	3:AC:67:C:C6	2.20	0.75
4:AE:53:ARG:HE	4:AE:199:TYR:HE2	1.34	0.75
8:AI:35:ALA:O	8:AI:36:ARG:HG3	1.86	0.75
11:AL:103:THR:HG22	11:AL:104:ARG:N	2.00	0.75
13:AN:18:ARG:HD3	13:AN:34:ASP:O	1.87	0.75
13:AN:20:TYR:CE2	13:AN:83:ILE:HG12	2.19	0.75
49:B2:10:LYS:HE2	49:B2:31:LEU:CD2	2.15	0.75
50:B3:57:GLU:HA	50:B3:61:ARG:CZ	2.17	0.75
54:B7:15:LYS:O	54:B7:22:VAL:HA	1.86	0.75
24:BA:1065:U:H1'	24:BA:1074:G:H22	1.51	0.75
24:BA:1166:C:C2	24:BA:1184:G:N2	2.54	0.75
24:BA:1275:A:H2	38:BQ:16:HIS:CA	1.96	0.75
24:BA:1327:C:H3'	24:BA:1328:G:C8	2.21	0.75
24:BA:1682:G:OP2	24:BA:1699:G:N2	2.18	0.75
24:BA:1683:C:C2	24:BA:1684:C:C5	2.74	0.75
24:BA:2517:C:C4	24:BA:2542:A:N7	2.53	0.75
24:BA:2597:G:O4'	27:BD:242:ARG:NH2	2.19	0.75
24:BA:2794:C:H2'	24:BA:2795:G:OP1	1.87	0.75
24:BA:2840:C:H5''	38:BQ:53:HIS:HD2	1.51	0.75
24:BA:326:G:H22	24:BA:337:C:H1'	1.49	0.75
24:BA:826:U:OP1	24:BA:2429:G:OP1	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:847:U:O2	24:BA:934:G:N3	2.19	0.75
27:BD:42:GLY:HA2	27:BD:60:ARG:HH22	1.51	0.75
28:BE:124:GLY:HA3	28:BE:136:ARG:HB2	1.67	0.75
29:BF:188:ARG:HG2	29:BF:188:ARG:HH21	1.52	0.75
29:BF:122:LYS:CE	29:BF:192:LEU:HD12	2.16	0.75
30:BG:124:SER:O	30:BG:132:ASN:HB3	1.87	0.75
30:BG:96:ARG:HD3	30:BG:97:ASP:OD1	1.87	0.75
31:BH:103:LEU:HD13	31:BH:115:VAL:CG1	2.15	0.75
31:BH:16:SER:HB3	31:BH:27:LYS:HB2	1.65	0.75
33:BL:7:VAL:CG1	33:BL:58:THR:HG21	2.05	0.75
24:BA:2640:G:H4'	34:BM:75:TYR:OH	1.85	0.75
35:BN:7:TYR:HB3	35:BN:18:LYS:CE	2.15	0.75
35:BN:94:ARG:HG3	35:BN:96:THR:H	1.52	0.75
40:BS:82:LEU:O	40:BS:84:GLN:N	2.19	0.75
41:BT:7:GLY:O	41:BT:8:VAL:C	2.24	0.75
42:BU:3:ALA:HB2	42:BU:44:LYS:HD2	1.68	0.75
45:BX:46:LYS:HB3	45:BX:46:LYS:NZ	2.02	0.75
26:BC:116:THR:CG2	26:BC:149:ILE:HB	2.16	0.75
24:BA:1886:C:H2'	24:BA:1887:C:H6	1.50	0.75
1:AA:489:C:H2'	1:AA:490:G:H8	1.51	0.75
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.20	0.75
1:AA:1506:U:H5''	1:AA:1507:A:OP2	1.86	0.75
1:AA:520:A:N7	1:AA:521:G:C8	2.54	0.75
1:AA:50:A:O2'	1:AA:52:G:N7	2.20	0.75
1:AA:640:A:H2'	1:AA:641:U:O4'	1.85	0.75
1:AA:673:G:H2'	1:AA:674:G:C8	2.21	0.75
1:AA:90:C:O2'	1:AA:91:C:H5'	1.85	0.75
3:AC:62:C:O2'	3:AC:63:G:H5'	1.86	0.75
4:AE:178:ARG:HA	4:AE:178:ARG:HH11	1.51	0.75
4:AE:221:LEU:HD13	4:AE:221:LEU:C	2.06	0.75
1:AA:9:G:OP2	7:AH:121:LYS:HD2	1.86	0.75
8:AI:22:GLU:OE2	8:AI:82:ARG:HD2	1.85	0.75
10:AK:114:THR:HG23	10:AK:119:LEU:HD23	1.66	0.75
10:AK:22:GLU:CA	10:AK:63:LEU:HD22	2.14	0.75
10:AK:46:LYS:CE	10:AK:64:LYS:HA	2.16	0.75
1:AA:1180:A:OP1	11:AL:102:LEU:HB2	1.86	0.75
11:AL:9:ARG:HD2	11:AL:14:VAL:CG2	2.15	0.75
14:AO:56:ALA:HB2	14:AO:70:ILE:CG1	2.16	0.75
15:AP:82:MET:CE	15:AP:93:ARG:HA	2.16	0.75
16:AQ:41:ARG:O	16:AQ:45:ARG:HG2	1.86	0.75
1:AA:761:G:C4'	19:AT:103:GLY:H	2.00	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:586:C:OP1	19:AT:34:LYS:NZ	2.18	0.75
19:AT:63:ARG:HG2	19:AT:64:PRO:HD2	1.67	0.75
24:BA:248:G:OP1	50:B3:28:LYS:HE2	1.86	0.75
24:BA:1107:G:C2'	24:BA:1108:U:H5'	2.15	0.75
24:BA:1255:U:C4	29:BF:72:ARG:O	2.39	0.75
24:BA:141(A):C:H2'	24:BA:142:G:O4'	1.87	0.75
24:BA:1475:G:H22	24:BA:1477:A:H62	1.32	0.75
24:BA:1537:C:H2'	24:BA:1538:G:H5'	1.67	0.75
24:BA:1650:G:H21	24:BA:1651:G:H1'	1.51	0.75
24:BA:1681:G:C2	24:BA:1762:A:N7	2.54	0.75
24:BA:1791:A:H3'	24:BA:1792:G:C8	2.20	0.75
24:BA:746:A:N7	24:BA:2611:U:O3'	2.20	0.75
24:BA:349:G:OP2	24:BA:349:G:C8	2.40	0.75
24:BA:388:G:C2'	24:BA:390:A:N7	2.48	0.75
24:BA:397:G:O2'	24:BA:2231:C:H1'	1.86	0.75
24:BA:445:C:H3'	41:BT:3:ARG:NE	2.01	0.75
24:BA:514:A:H2	24:BA:515:A:C4	2.05	0.75
24:BA:574:C:H1'	24:BA:2055:C:C5	2.22	0.75
24:BA:900:A:O2'	24:BA:901:A:H5'	1.86	0.75
25:BB:9:G:H2'	25:BB:9:G:N3	2.01	0.75
29:BF:103:LYS:HA	29:BF:106:ARG:CG	2.15	0.75
31:BH:69:ARG:HG3	31:BH:70:THR:N	1.99	0.75
34:BM:13:TRP:O	34:BM:138:LEU:HB2	1.85	0.75
34:BM:58:ASP:O	34:BM:60:ILE:HG13	1.86	0.75
36:BO:114:ILE:CD1	36:BO:123:LEU:HG	2.16	0.75
36:BO:38:GLN:O	36:BO:40:SER:N	2.18	0.75
36:BO:97:PRO:HA	36:BO:102:ARG:NE	2.01	0.75
37:BP:16:ARG:HG2	37:BP:73:PRO:HD2	1.66	0.75
42:BU:35:LEU:C	42:BU:61:VAL:HG22	2.07	0.75
45:BX:2:ARG:HH21	45:BX:4:LYS:CB	1.99	0.75
26:BC:32:LEU:CB	26:BC:220:PRO:HG2	2.14	0.75
1:AA:1065:U:H2'	1:AA:1065:U:O2	1.85	0.75
1:AA:1095:U:OP2	1:AA:1108:G:N1	2.19	0.75
1:AA:1124:G:H21	1:AA:1126:U:H3	0.81	0.75
1:AA:1363:A:N3	1:AA:1365:G:C6	2.55	0.75
1:AA:283:C:H2'	1:AA:283:C:O2	1.85	0.75
1:AA:568:G:H21	1:AA:574:A:H2	1.31	0.75
1:AA:792:A:H2'	1:AA:794:A:N6	2.00	0.75
1:AA:889:A:H5'	1:AA:891:U:O4'	1.86	0.75
4:AE:17:PHE:CD1	4:AE:18:GLY:N	2.54	0.75
6:AG:132:ARG:NH1	6:AG:132:ARG:HG2	1.92	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:31:CYS:O	6:AG:33:MET:HE3	1.86	0.75
9:AJ:74:GLU:HG2	9:AJ:75:VAL:N	2.02	0.75
10:AK:101:PRO:O	10:AK:102:ARG:HB2	1.87	0.75
14:AO:85:ILE:CD1	14:AO:99:HIS:N	2.50	0.75
21:AV:32:LYS:CA	21:AV:50:ALA:HB3	2.17	0.75
22:AW:72:LEU:HD23	22:AW:76:ALA:HB1	1.68	0.75
49:B2:26:LEU:CB	49:B2:28:LEU:HD21	2.15	0.75
24:BA:1471:A:C2'	24:BA:1472:A:H5'	2.16	0.75
24:BA:1496:A:C2	24:BA:1577:C:H1'	2.21	0.75
24:BA:1602:U:H2'	24:BA:1603:A:O5'	1.85	0.75
24:BA:1788:C:H2'	27:BD:222:ARG:NE	2.00	0.75
24:BA:2253:G:H2'	24:BA:2254:C:H6	1.51	0.75
24:BA:2508:G:O2'	24:BA:2509:G:H5'	1.86	0.75
24:BA:2051:A:C4	24:BA:2614:A:N6	2.55	0.75
24:BA:2820:A:O3'	38:BQ:4:LEU:HD22	1.87	0.75
24:BA:2886:G:O2'	51:B4:32:PRO:HD2	1.87	0.75
24:BA:49:A:N6	24:BA:176:G:C6	2.55	0.75
24:BA:668:G:N3	24:BA:670:A:N6	2.35	0.75
24:BA:740:U:C2'	24:BA:741:G:O5'	2.35	0.75
24:BA:748:G:H5'	24:BA:749:C:OP2	1.86	0.75
24:BA:989:G:O2'	24:BA:990:A:O5'	2.05	0.75
27:BD:159:ALA:O	27:BD:196:VAL:HG11	1.87	0.75
30:BG:102:PHE:CE2	30:BG:106:LEU:HD12	2.22	0.75
30:BG:75:LYS:HD3	30:BG:85:GLY:H	1.52	0.75
31:BH:87:LEU:HD23	31:BH:88:LEU:N	2.00	0.75
32:BK:34:GLY:O	32:BK:35:LEU:HD13	1.87	0.75
35:BN:92:GLU:OE1	35:BN:113:LYS:HB3	1.86	0.75
35:BN:18:LYS:HZ1	35:BN:44:LYS:HZ2	1.34	0.75
24:BA:661:C:H5'	36:BO:15:ARG:NH1	2.01	0.75
36:BO:77:ARG:NH1	36:BO:79:ARG:HG2	2.02	0.75
37:BP:85:LYS:HG3	37:BP:87:LYS:N	2.02	0.75
38:BQ:14:SER:O	38:BQ:18:LEU:HD23	1.86	0.75
39:BR:92:TYR:CG	39:BR:93:LYS:N	2.53	0.75
40:BS:18:ASP:HB3	40:BS:81:PRO:CA	2.14	0.75
43:BV:21:VAL:HA	43:BV:24:ILE:HG13	1.68	0.75
44:BW:49:VAL:HG12	44:BW:88:LYS:CG	2.16	0.75
47:BZ:21:LEU:HD13	47:BZ:41:ARG:HG2	1.67	0.75
26:BC:26:ALA:HB1	26:BC:182:PRO:HA	1.68	0.75
26:BC:62:VAL:HB	26:BC:195:ALA:HB2	1.67	0.75
1:AA:1035:A:C2'	1:AA:1036:G:H5'	2.17	0.75
1:AA:994:A:N1	1:AA:1047:G:H4'	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:O2	1:AA:1149:C:C6	2.40	0.75
1:AA:148:G:H1	1:AA:174:C:H42	1.32	0.75
1:AA:440:A:N6	1:AA:494:U:C5	2.55	0.75
1:AA:973:G:C2	1:AA:974:A:C6	2.75	0.75
3:AB:13:C:H2'	3:AB:14:A:H5''	1.67	0.75
1:AA:620:C:N1	6:AG:135:LEU:HD13	2.00	0.75
6:AG:50:ARG:NH1	6:AG:52:SER:HA	2.01	0.75
9:AJ:113:GLU:CG	9:AJ:118:VAL:HB	2.17	0.75
10:AK:4:ASP:HB2	10:AK:6:ILE:HG22	1.67	0.75
19:AT:40:LYS:HB3	19:AT:40:LYS:NZ	2.01	0.75
19:AT:7:THR:CG2	19:AT:8:GLY:N	2.50	0.75
20:AU:70:ILE:O	20:AU:73:ALA:HB3	1.86	0.75
22:AW:23:ARG:O	22:AW:26:ASN:ND2	2.20	0.75
48:B1:20:VAL:CA	48:B1:55:LEU:HD23	2.17	0.75
24:BA:2045:C:O2	51:B4:22:HIS:CE1	2.39	0.75
24:BA:2017:U:O2	51:B4:9:LYS:HA	1.85	0.75
24:BA:14:A:N7	24:BA:15:G:N9	2.34	0.75
24:BA:1698:A:H1'	24:BA:1700:A:O5'	1.86	0.75
24:BA:1742:C:N4	24:BA:1743:G:C8	2.55	0.75
24:BA:1800:C:C6	24:BA:1800:C:C3'	2.68	0.75
24:BA:1808:U:N3	24:BA:1810:A:C2	2.54	0.75
24:BA:1815:A:OP1	24:BA:1822:G:H4'	1.86	0.75
24:BA:2021:C:C2'	24:BA:2022:U:OP1	2.34	0.75
24:BA:201:C:H2'	24:BA:202:U:H5'	1.68	0.75
24:BA:2055:C:H4'	24:BA:2056:G:C5'	2.15	0.75
24:BA:242:G:H3'	54:B7:4:MET:SD	2.24	0.75
24:BA:2633:G:H4'	24:BA:2812:G:OP1	1.86	0.75
24:BA:643:A:H1'	24:BA:644:A:N7	2.02	0.75
24:BA:781:A:C1'	27:BD:222:ARG:NH1	2.49	0.75
25:BB:104:A:H2'	25:BB:105:G:O4'	1.86	0.75
24:BA:600:G:O2'	29:BF:105:VAL:HG22	1.87	0.75
30:BG:77:ILE:O	30:BG:83:ARG:NE	2.20	0.75
34:BM:109:LYS:HZ2	34:BM:110:GLY:N	1.85	0.75
34:BM:17:ASP:HB3	34:BM:21:LYS:NZ	2.00	0.75
35:BN:16:ALA:CB	35:BN:45:GLU:HB2	2.17	0.75
35:BN:7:TYR:HA	35:BN:18:LYS:HE3	1.67	0.75
35:BN:18:LYS:HZ1	35:BN:44:LYS:NZ	1.84	0.75
36:BO:75:ILE:HG22	36:BO:115:LEU:CD1	2.14	0.75
38:BQ:54:LEU:HD22	38:BQ:66:VAL:HG23	1.68	0.75
40:BS:30:VAL:HG22	40:BS:32:TYR:OH	1.87	0.75
41:BT:65:ILE:N	41:BT:65:ILE:HD13	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:50:LYS:HG3	44:BW:84:ALA:HB3	1.69	0.75
46:BY:4:ARG:HH22	46:BY:88:PHE:HE1	1.33	0.75
47:BZ:51:VAL:HG21	47:BZ:79:VAL:O	1.86	0.75
47:BZ:47:PRO:HG2	47:BZ:53:MET:HB2	1.69	0.75
32:BK:108:THR:C	32:BK:109:ILE:HD12	2.06	0.75
1:AA:274:A:O2'	1:AA:275:G:C1'	2.35	0.75
1:AA:284:G:O2'	1:AA:285:G:H5'	1.86	0.75
1:AA:754:C:H2'	1:AA:755:G:OP1	1.87	0.75
1:AA:932:C:OP1	9:AJ:3:ARG:HB3	1.87	0.75
4:AE:178:ARG:HA	4:AE:178:ARG:NH1	2.01	0.75
6:AG:108:LEU:HD21	6:AG:174:LEU:HB3	1.67	0.75
9:AJ:72:ARG:CZ	9:AJ:142:GLU:OE1	2.35	0.75
10:AK:119:LEU:HD22	10:AK:119:LEU:N	2.01	0.75
11:AL:47:LEU:HD13	11:AL:47:LEU:O	1.86	0.75
12:AM:24:VAL:HG21	12:AM:37:PRO:HD3	1.67	0.75
13:AN:101:SER:O	13:AN:103:LEU:HG	1.86	0.75
14:AO:5:PRO:O	14:AO:6:THR:HG23	1.87	0.75
48:B1:56:LEU:N	48:B1:56:LEU:HD13	2.01	0.75
54:B7:39:LYS:O	54:B7:42:ARG:HB2	1.87	0.75
24:BA:1451:C:H3'	24:BA:1453:A:H4'	1.68	0.75
24:BA:1631:A:N6	24:BA:1683:C:H5'	2.01	0.75
24:BA:2043:C:N4	24:BA:2777:G:C4	2.54	0.75
24:BA:2404:C:H2'	24:BA:2405:G:C8	2.21	0.75
24:BA:2496:C:H3'	24:BA:2497:A:C2	2.21	0.75
24:BA:108:U:H4'	24:BA:348:G:N2	2.02	0.75
24:BA:399:G:C6	24:BA:400:G:H1'	2.21	0.75
24:BA:1861:G:H4'	26:BC:205:LYS:NZ	2.02	0.75
27:BD:154:LYS:HG3	27:BD:154:LYS:O	1.86	0.75
27:BD:69:ARG:NH2	27:BD:130:ALA:HB2	2.02	0.75
30:BG:116:ASP:HB3	30:BG:118:ARG:NH2	2.01	0.75
31:BH:69:ARG:HB2	31:BH:69:ARG:CZ	2.16	0.75
34:BM:46:VAL:CG1	34:BM:47:ALA:N	2.40	0.75
35:BN:16:ALA:O	35:BN:18:LYS:N	2.19	0.75
37:BP:25:ASP:CB	37:BP:102:VAL:HG12	2.16	0.75
38:BQ:45:ARG:CB	38:BQ:95:THR:HG21	2.17	0.75
40:BS:7:ILE:O	40:BS:11:GLU:OE2	2.03	0.75
41:BT:19:LYS:HZ3	41:BT:19:LYS:HB2	1.50	0.75
41:BT:48:ALA:O	41:BT:51:LYS:HB2	1.86	0.75
41:BT:98:LEU:HB3	41:BT:105:VAL:HG11	1.68	0.75
42:BU:3:ALA:HB1	42:BU:44:LYS:HZ2	1.51	0.75
46:BY:17:ALA:HA	46:BY:20:ARG:NH2	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:71:VAL:HA	46:BY:87:ASP:O	1.86	0.75
32:BK:66:GLU:HG3	32:BK:69:LYS:HZ2	1.51	0.75
24:BA:2110:G:H2'	24:BA:2120:G:O5'	1.86	0.75
6:AG:43:HIS:HB3	6:AG:46:LYS:CG	2.15	0.75
24:BA:1583:A:H5'	24:BA:1585:C:H5'	1.66	0.75
24:BA:1766:U:O2'	24:BA:1767:C:H5'	1.86	0.75
24:BA:80:G:C1'	24:BA:347:A:N6	2.50	0.75
1:AA:1320:C:N4	21:AV:36:ARG:NH1	2.33	0.75
1:AA:1517:G:H1'	24:BA:1919:A:O3'	1.85	0.75
1:AA:66:G:H4'	1:AA:173:U:C4	2.21	0.75
1:AA:748:C:C6	1:AA:748:C:H3'	2.22	0.75
1:AA:894:G:O2'	1:AA:895:G:H5'	1.86	0.75
1:AA:888:G:H21	1:AA:909:A:H62	0.75	0.75
5:AF:71:ALA:HA	5:AF:105:GLU:HG3	1.69	0.75
6:AG:147:ALA:CB	6:AG:182:LYS:HA	2.16	0.75
10:AK:126:LYS:HD2	10:AK:127:LEU:N	2.02	0.75
11:AL:40:LEU:C	11:AL:42:ARG:H	1.90	0.75
20:AU:38:GLU:CD	20:AU:38:GLU:H	1.89	0.75
48:B1:14:VAL:HA	48:B1:17:GLU:CD	2.07	0.75
49:B2:31:LEU:HB3	49:B2:32:GLN:NE2	2.02	0.75
24:BA:1518:C:H3'	24:BA:1519:G:C5'	2.17	0.75
24:BA:1707:G:H2'	24:BA:1708:C:C6	2.22	0.75
24:BA:1746:G:OP2	24:BA:1746:G:H3'	1.85	0.75
24:BA:1772:G:H21	24:BA:1774:C:H5'	1.52	0.75
24:BA:2027:G:H2'	24:BA:2028:U:C6	2.21	0.75
24:BA:2063:C:OP2	24:BA:2064:C:OP2	2.04	0.75
24:BA:2278:A:H62	47:BZ:14:ARG:HB3	1.51	0.75
24:BA:2305:A:C5	30:BG:42:GLY:HA2	2.22	0.75
24:BA:200:U:C4	24:BA:248:G:N7	2.54	0.75
24:BA:459:U:OP2	53:B6:40:TRP:HA	1.87	0.75
24:BA:600:G:N2	24:BA:604:G:H4'	2.01	0.75
24:BA:755:C:H2'	24:BA:756:C:C6	2.21	0.75
24:BA:690:G:O2'	24:BA:780:G:OP1	2.03	0.75
24:BA:961:C:O2'	24:BA:962:G:OP1	2.01	0.75
27:BD:181:GLU:HB2	27:BD:268:ARG:NH2	2.01	0.75
27:BD:37:LEU:HD21	27:BD:64:ILE:H	1.49	0.75
28:BE:129:HIS:CD2	28:BE:129:HIS:H	2.05	0.75
28:BE:84:PHE:C	28:BE:85:ASN:HD22	1.90	0.75
30:BG:71:THR:HG22	30:BG:71:THR:O	1.86	0.75
34:BM:16:ILE:N	34:BM:16:ILE:HD12	2.02	0.75
34:BM:26:LEU:O	34:BM:30:ILE:HG13	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:4:TYR:CD2	41:BT:100:VAL:HG11	2.22	0.75
35:BN:10:VAL:N	35:BN:17:ARG:HG2	2.01	0.75
37:BP:39:PRO:CG	37:BP:127:ILE:HG12	2.17	0.75
38:BQ:36:THR:HB	38:BQ:40:LYS:HD3	1.66	0.75
39:BR:62:LYS:CB	39:BR:65:VAL:HG13	2.17	0.75
40:BS:53:ARG:HH22	40:BS:102:ILE:H	1.31	0.75
40:BS:54:ARG:O	40:BS:64:ARG:HB2	1.86	0.75
43:BV:24:ILE:HG22	43:BV:32:ALA:HB1	1.68	0.75
45:BX:84:ARG:HD2	45:BX:84:ARG:C	2.08	0.75
46:BY:113:ALA:HB1	46:BY:145:GLU:CD	2.07	0.75
24:BA:1503:U:H2'	24:BA:1504:C:C5	2.21	0.75
1:AA:342:C:H2'	1:AA:343:U:H6	1.52	0.75
1:AA:186(A):C:H2'	1:AA:186(B):C:O4'	1.87	0.75
1:AA:55:A:H2'	1:AA:56:U:O4'	1.87	0.75
1:AA:973:G:C2	1:AA:974:A:C5	2.74	0.75
5:AF:157:ILE:HG13	5:AF:164:ARG:CG	2.16	0.75
5:AF:83:ARG:O	5:AF:87:LEU:HG	1.87	0.75
5:AF:85:ARG:NH2	5:AF:89:GLU:HB2	2.01	0.75
6:AG:13:ARG:HG2	6:AG:32:ALA:HB2	1.68	0.75
6:AG:18:LYS:HE3	6:AG:33:MET:HB2	1.69	0.75
8:AI:76:ALA:CB	8:AI:80:ARG:HH22	1.99	0.75
9:AJ:62:PHE:O	9:AJ:66:VAL:HG23	1.86	0.75
10:AK:123:GLU:O	10:AK:126:LYS:HG3	1.86	0.75
10:AK:65:TYR:C	10:AK:67:PRO:HD3	2.06	0.75
12:AM:82:ILE:O	12:AM:86:MET:HB3	1.87	0.75
13:AN:44:SER:O	13:AN:48:ILE:HG12	1.87	0.75
13:AN:48:ILE:HD11	13:AN:64:ALA:HB2	1.67	0.75
14:AO:37:CYS:HA	14:AO:58:VAL:CG2	2.10	0.75
15:AP:13:LYS:HD3	15:AP:21:TYR:OH	1.86	0.75
17:AR:31:LEU:O	17:AR:34:LEU:HG	1.86	0.75
1:AA:986:A:H4'	21:AV:55:LYS:HG3	1.68	0.75
22:AW:51:GLU:HA	22:AW:54:LYS:CE	2.17	0.75
49:B2:30:ARG:HD2	49:B2:30:ARG:N	2.01	0.75
50:B3:56:VAL:O	50:B3:61:ARG:NH2	2.20	0.75
24:BA:594:U:H5''	54:B7:61:LEU:CD1	2.16	0.75
24:BA:1530:G:C3'	24:BA:1531:C:C6	2.68	0.75
24:BA:1670:C:P	24:BA:1671:U:H5	2.10	0.75
24:BA:2016:U:O4'	51:B4:6:VAL:HG11	1.87	0.75
24:BA:2306:C:OP1	30:BG:136:ARG:HD3	1.86	0.75
24:BA:2311:A:H3'	24:BA:2312:U:C6	2.22	0.75
24:BA:2394:C:P	36:BO:57:THR:HA	2.27	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2789:C:O2'	24:BA:2893:G:N2	2.15	0.75
24:BA:328:U:H3	24:BA:332:A:H62	1.32	0.75
24:BA:300:A:H2'	24:BA:334:C:O2'	1.86	0.75
24:BA:452:G:C3'	24:BA:453:C:H5''	2.13	0.75
24:BA:735:A:O5'	24:BA:735:A:H8	1.67	0.75
27:BD:66:ASP:OD2	27:BD:103:ARG:HD3	1.86	0.75
27:BD:174:ILE:CD1	27:BD:184:LYS:HE3	2.16	0.75
27:BD:183:ARG:HG2	27:BD:268:ARG:CG	2.16	0.75
28:BE:105:THR:HG23	28:BE:197:ILE:HD13	1.68	0.75
28:BE:4:ILE:HG21	28:BE:30:PRO:HG3	1.69	0.75
29:BF:37:VAL:HG12	29:BF:41:LEU:HD23	1.68	0.75
30:BG:125:PHE:O	30:BG:126:ASP:HB3	1.87	0.75
30:BG:41:GLN:HG3	30:BG:42:GLY:N	2.02	0.75
31:BH:106:THR:HG23	31:BH:111:HIS:HB3	1.68	0.75
35:BN:12:ASP:CB	35:BN:93:PRO:HG2	2.17	0.75
35:BN:2:ILE:HD13	35:BN:31:LYS:O	1.86	0.75
38:BQ:98:LEU:HD23	38:BQ:99:LYS:NZ	2.01	0.75
39:BR:78:LEU:HD13	39:BR:79:ALA:H	1.52	0.75
40:BS:18:ASP:CB	40:BS:81:PRO:HA	2.14	0.75
40:BS:95:ARG:NH2	40:BS:96:ARG:NH2	2.35	0.75
42:BU:17:GLY:HA3	42:BU:19:LYS:HZ3	1.50	0.75
42:BU:6:LYS:HB3	42:BU:10:LYS:CA	2.11	0.75
43:BV:20:VAL:HG13	43:BV:21:VAL:N	2.01	0.75
24:BA:456:C:H5	44:BW:68:ARG:HH12	1.33	0.75
45:BX:8:LYS:CA	45:BX:28:LYS:HD2	2.17	0.75
46:BY:27:VAL:CG2	46:BY:85:HIS:HE1	1.99	0.75
32:BK:128:LEU:CD2	32:BK:129:THR:H	2.00	0.75
26:BC:71:GLN:CD	26:BC:72:VAL:HG23	2.07	0.75
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.18	0.74
1:AA:1462:G:O2'	1:AA:1463:C:H5'	1.87	0.74
1:AA:274:A:HO2'	1:AA:275:G:C1'	2.00	0.74
1:AA:408:A:H5'	6:AG:116:GLN:HG2	1.66	0.74
1:AA:687:A:O2'	1:AA:688:G:O4'	2.04	0.74
4:AE:16:HIS:CE1	4:AE:213:LEU:HD13	2.21	0.74
9:AJ:38:LEU:O	9:AJ:41:ARG:HB2	1.87	0.74
11:AL:37:PHE:CE1	11:AL:74:ILE:HG23	2.22	0.74
11:AL:58:HIS:CD2	11:AL:59:PHE:CD1	2.75	0.74
18:AS:8:ARG:NH1	18:AS:11:SER:N	2.35	0.74
51:B4:45:VAL:HB	51:B4:50:GLY:CA	2.14	0.74
52:B5:17:LYS:NZ	52:B5:50:ARG:HB2	2.02	0.74
53:B6:43:THR:HG23	53:B6:46:VAL:CG2	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:13:ARG:O	54:B7:14:VAL:HB	1.86	0.74
24:BA:1063:G:N7	24:BA:1064:C:N4	2.34	0.74
24:BA:1223:C:HO2'	24:BA:1225:C:H5	1.32	0.74
24:BA:1315:C:O2'	24:BA:1392:A:H1'	1.86	0.74
24:BA:1524:G:H2'	24:BA:1525:G:C8	2.20	0.74
24:BA:1746:G:H2'	24:BA:1747:G:C8	2.22	0.74
24:BA:2231:C:H2'	24:BA:2232:U:H6	1.53	0.74
24:BA:2246:G:N2	24:BA:2247:A:C4	2.55	0.74
24:BA:257:A:H2'	24:BA:258:G:O4'	1.87	0.74
24:BA:2594:C:O2'	24:BA:2595:G:H5'	1.87	0.74
24:BA:2690:C:C6	24:BA:2690:C:H3'	2.22	0.74
24:BA:270(H):C:H2'	24:BA:270(I):G:H8	1.51	0.74
24:BA:270(Z):U:OP1	24:BA:270(Z):U:H4'	1.87	0.74
24:BA:36:G:H4'	24:BA:451:C:C2	2.21	0.74
24:BA:632:A:H2'	24:BA:633:A:C8	2.22	0.74
24:BA:656:G:H2'	24:BA:657:U:C6	2.22	0.74
24:BA:686:G:H4'	24:BA:687:C:OP2	1.85	0.74
24:BA:727:A:H2'	24:BA:728:G:H5'	1.69	0.74
24:BA:728:G:O2'	24:BA:729:G:H5''	1.87	0.74
24:BA:673:C:N4	24:BA:808:G:H1	1.85	0.74
27:BD:85:ASP:HB2	27:BD:87:ASN:HD21	1.50	0.74
27:BD:87:ASN:N	27:BD:87:ASN:ND2	2.27	0.74
28:BE:190:GLY:O	28:BE:191:PRO:O	2.05	0.74
28:BE:109:LYS:N	28:BE:191:PRO:HD3	2.02	0.74
30:BG:104:GLU:HG3	30:BG:105:LYS:N	2.02	0.74
30:BG:94:LEU:HG	30:BG:98:ARG:NH1	2.02	0.74
34:BM:70:LYS:HA	34:BM:85:ILE:O	1.87	0.74
29:BF:31:HIS:ND1	36:BO:11:GLY:HA3	2.02	0.74
37:BP:41:TRP:CA	37:BP:95:ALA:O	2.35	0.74
37:BP:42:ILE:HG23	37:BP:47:ILE:HD11	1.69	0.74
38:BQ:96:ARG:CG	38:BQ:98:LEU:HD11	2.15	0.74
39:BR:64:GLU:OE2	39:BR:67:ARG:HB3	1.85	0.74
40:BS:109:GLU:O	40:BS:110:ILE:HB	1.87	0.74
28:BE:8:LYS:HE3	40:BS:2:ASN:OD1	1.85	0.74
42:BU:67:GLY:CA	42:BU:93:GLU:O	2.35	0.74
46:BY:96:VAL:HG13	46:BY:128:VAL:HG22	1.68	0.74
3:AD:40:C:C2'	3:AD:41:C:H5''	2.17	0.74
1:AA:1063:C:C4	1:AA:1064:G:N7	2.55	0.74
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.51	0.74
1:AA:978:A:H61	1:AA:1361:G:H22	1.28	0.74
1:AA:1517:G:N2	1:AA:1518:A:H1'	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:440:A:H3'	1:AA:442:C:C6	2.21	0.74
1:AA:714:G:H1'	1:AA:777:A:C8	2.22	0.74
1:AA:898:G:H2'	1:AA:900:A:OP2	1.86	0.74
7:AH:143:ARG:O	7:AH:147:ASP:HB2	1.87	0.74
8:AI:14:LEU:HD12	8:AI:15:ASP:H	1.50	0.74
8:AI:47:ARG:CD	8:AI:57:GLN:HB3	2.17	0.74
8:AI:64:GLN:O	8:AI:65:VAL:HG12	1.85	0.74
9:AJ:62:PHE:HA	9:AJ:124:LEU:HD21	1.68	0.74
12:AM:22:LYS:NZ	12:AM:90:LEU:HD12	2.01	0.74
15:AP:104:ARG:CG	15:AP:105:THR:HG23	2.17	0.74
15:AP:25:ILE:HA	15:AP:29:ARG:HG3	1.66	0.74
17:AR:33:THR:HG23	17:AR:87:ILE:CD1	2.17	0.74
18:AS:35:LYS:HZ1	18:AS:37:GLY:H	1.35	0.74
19:AT:33:GLY:O	19:AT:34:LYS:O	2.05	0.74
19:AT:57:VAL:HB	19:AT:75:ARG:O	1.87	0.74
22:AW:90:GLN:HA	22:AW:93:GLU:OE1	1.86	0.74
24:BA:1022:G:N7	34:BM:65:LYS:HE3	2.01	0.74
24:BA:1055:G:O5'	24:BA:1055:G:H8	1.70	0.74
24:BA:1467:C:N4	24:BA:1524:G:O6	2.20	0.74
24:BA:1655:A:H2'	24:BA:1656:C:C6	2.20	0.74
24:BA:1793:C:H42	24:BA:1825:A:H61	1.33	0.74
24:BA:1944:U:H1'	24:BA:1955:U:O4'	1.86	0.74
24:BA:1969:A:H5'	24:BA:1970:A:OP1	1.85	0.74
24:BA:2027:G:O2'	24:BA:2028:U:H5'	1.87	0.74
24:BA:2052:G:H1'	28:BE:150:VAL:N	2.02	0.74
24:BA:2563:U:N3	24:BA:2566:A:OP2	2.20	0.74
24:BA:2864:G:H2'	24:BA:2865:U:C5	2.20	0.74
24:BA:465:G:H21	24:BA:683:C:H2'	1.53	0.74
24:BA:624:C:H5'	24:BA:625:G:OP2	1.86	0.74
27:BD:121:PRO:C	27:BD:135:PHE:HE2	1.89	0.74
27:BD:169:GLU:CB	27:BD:184:LYS:HZ1	1.98	0.74
27:BD:225:ALA:HB3	27:BD:231:HIS:CE1	2.22	0.74
29:BF:176:LEU:HD21	29:BF:180:GLY:O	1.87	0.74
34:BM:7:LYS:NZ	34:BM:10:GLU:H	1.84	0.74
35:BN:24:VAL:HG22	35:BN:30:ALA:HA	1.69	0.74
37:BP:134:ARG:HH11	37:BP:134:ARG:C	1.89	0.74
38:BQ:26:LYS:HG2	38:BQ:70:LEU:HD13	1.69	0.74
38:BQ:75:LEU:HA	38:BQ:78:LYS:HB3	1.68	0.74
40:BS:17:THR:CB	40:BS:20:PRO:HD3	2.17	0.74
40:BS:67:SER:OG	40:BS:75:ILE:HG23	1.87	0.74
42:BU:91:TYR:O	42:BU:92:THR:HB	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:33:ARG:HH11	43:BV:36:LEU:HB3	1.52	0.74
43:BV:33:ARG:HD3	43:BV:37:ARG:HD3	1.69	0.74
24:BA:2178:C:H5''	26:BC:46:LYS:NZ	2.02	0.74
26:BC:6:ARG:HD2	26:BC:6:ARG:O	1.87	0.74
26:BC:97:GLU:HA	26:BC:100:ILE:CD1	2.13	0.74
18:AS:67:THR:HB	18:AS:70:ALA:HB2	1.68	0.74
1:AA:1302:U:C2'	1:AA:1303:C:H5'	2.17	0.74
1:AA:1494:G:HO2'	1:AA:1495:U:H5	1.32	0.74
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.70	0.74
1:AA:735:C:H5'	20:AU:71:LYS:HD3	1.69	0.74
1:AA:965:A:C8	1:AA:969:A:C4	2.75	0.74
3:AC:14:A:H2'	3:AC:15:G:H8	1.52	0.74
4:AE:222:ILE:CD1	4:AE:226:ARG:HH21	1.99	0.74
5:AF:140:ARG:HB3	5:AF:140:ARG:NH1	2.02	0.74
1:AA:1056:U:O2	5:AF:195:VAL:HG23	1.87	0.74
5:AF:20:SER:CB	5:AF:40:ARG:HH22	1.97	0.74
7:AH:81:GLU:HA	7:AH:90:VAL:HG22	1.67	0.74
10:AK:92:ARG:HG2	10:AK:92:ARG:HH11	1.51	0.74
19:AT:11:VAL:HB	19:AT:20:THR:OG1	1.86	0.74
1:AA:1312:G:N7	21:AV:2:PRO:O	2.19	0.74
49:B2:41:PRO:HA	49:B2:44:ARG:NH1	2.01	0.74
24:BA:1081:U:H2'	24:BA:1082:U:O4'	1.86	0.74
24:BA:1184:G:H2'	24:BA:1185:C:H5'	1.69	0.74
24:BA:1190:G:OP1	36:BO:31:ALA:N	2.20	0.74
24:BA:140:A:H61	24:BA:1596:A:H4'	1.52	0.74
24:BA:1706:U:O2	24:BA:1706:U:H2'	1.86	0.74
24:BA:2016:U:H5''	24:BA:2058:A:OP1	1.87	0.74
24:BA:2333:A:H4'	24:BA:2335:A:O4'	1.85	0.74
24:BA:221:A:N7	24:BA:266:G:O6	2.20	0.74
24:BA:640:C:N4	24:BA:647:G:H1	1.84	0.74
24:BA:805:G:H2'	24:BA:806:C:OP1	1.86	0.74
24:BA:81:G:H4'	24:BA:294:A:C2	2.23	0.74
24:BA:849:A:N3	49:B2:21:ALA:HB1	2.02	0.74
27:BD:182:LEU:CD1	27:BD:270:ILE:HD11	2.17	0.74
24:BA:1799:G:H5''	27:BD:264:LYS:HE2	1.69	0.74
27:BD:77:ALA:CB	27:BD:95:LEU:HD21	2.14	0.74
28:BE:111:ARG:H	28:BE:161:GLY:CA	2.00	0.74
24:BA:2512:C:H5''	28:BE:120:TRP:CZ2	2.22	0.74
28:BE:102:VAL:HG23	28:BE:200:GLU:OE1	1.87	0.74
29:BF:118:ALA:CB	29:BF:122:LYS:HE2	2.17	0.74
30:BG:135:LEU:HD22	30:BG:136:ARG:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:79:ASN:CG	30:BG:82:LEU:HG	2.07	0.74
31:BH:121:ILE:HA	31:BH:134:SER:O	1.86	0.74
31:BH:85:LYS:NZ	31:BH:141:VAL:HG12	2.02	0.74
34:BM:22:THR:HG23	34:BM:25:ARG:CZ	2.18	0.74
34:BM:34:LEU:HD21	34:BM:52:VAL:HG12	1.67	0.74
24:BA:2685:G:O5'	35:BN:67:LYS:HD2	1.86	0.74
38:BQ:113:LEU:HD13	38:BQ:114:VAL:N	2.02	0.74
38:BQ:45:ARG:HG2	38:BQ:46:GLY:N	2.02	0.74
40:BS:53:ARG:NH2	40:BS:102:ILE:H	1.84	0.74
34:BM:42:TRP:CZ3	41:BT:67:ALA:HB1	2.23	0.74
44:BW:36:LYS:HD3	44:BW:39:ILE:HD12	1.69	0.74
46:BY:103:ARG:HB2	46:BY:138:GLU:HG2	1.66	0.74
46:BY:57:ILE:CG2	46:BY:58:VAL:H	2.00	0.74
47:BZ:51:VAL:HG11	47:BZ:79:VAL:HG23	1.69	0.74
26:BC:10:LEU:CD1	26:BC:13:LYS:HD2	2.16	0.74
1:AA:10:A:O2'	1:AA:11:G:H5'	1.86	0.74
1:AA:198:G:C8	1:AA:198:G:OP2	2.38	0.74
1:AA:355:C:N4	1:AA:356:A:H62	1.84	0.74
1:AA:475:G:C2'	1:AA:476:G:H8	2.00	0.74
1:AA:508:C:O2'	1:AA:509:A:H8	1.69	0.74
1:AA:519:C:H2'	1:AA:520:A:H5'	1.67	0.74
1:AA:675:A:H2'	1:AA:676:A:C8	2.23	0.74
1:AA:915:A:H2'	1:AA:916:G:C5'	2.17	0.74
7:AH:108:ALA:O	7:AH:112:LEU:HB2	1.87	0.74
8:AI:14:LEU:HD13	8:AI:15:ASP:H	1.52	0.74
9:AJ:46:ALA:CA	9:AJ:49:ILE:HD13	2.16	0.74
12:AM:49:VAL:CG1	16:AQ:45:ARG:HD2	2.16	0.74
50:B3:1:MET:O	50:B3:2:LYS:HG3	1.88	0.74
51:B4:9:LYS:N	51:B4:9:LYS:HD2	2.02	0.74
24:BA:1102:C:H3'	24:BA:1104:C:H5	1.52	0.74
24:BA:187:G:H2'	24:BA:1365:A:C2	2.22	0.74
24:BA:1368:G:H2'	24:BA:1369:G:H8	1.52	0.74
24:BA:1429:G:H3'	24:BA:1430:C:H6	1.51	0.74
24:BA:1435:G:N1	24:BA:1558:A:N6	2.36	0.74
24:BA:1513:C:N3	24:BA:1514:U:O4	2.20	0.74
24:BA:1520:U:H6	24:BA:1520:U:H3'	1.52	0.74
24:BA:1574:C:H2'	24:BA:1575:C:O4'	1.87	0.74
24:BA:1825:A:N6	24:BA:1826:G:O6	2.20	0.74
24:BA:243:U:O2	24:BA:244:A:H5'	1.87	0.74
24:BA:2585:U:H2'	24:BA:2585:U:O2	1.87	0.74
24:BA:2623:G:H22	51:B4:22:HIS:HE1	1.33	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(G):C:H2'	24:BA:270(H):C:C6	2.22	0.74
24:BA:365:C:O5'	24:BA:365:C:H6	1.68	0.74
28:BE:36:ARG:HB3	28:BE:41:LYS:HB2	1.69	0.74
28:BE:8:LYS:HD3	28:BE:9:VAL:CG2	2.15	0.74
29:BF:115:ALA:O	29:BF:119:ARG:HG3	1.87	0.74
29:BF:132:VAL:C	29:BF:134:GLY:H	1.91	0.74
29:BF:30:PRO:HA	29:BF:33:LEU:HD21	1.67	0.74
30:BG:28:VAL:HG12	30:BG:28:VAL:O	1.87	0.74
32:BK:2:LYS:HZ2	32:BK:39:ALA:HB1	1.52	0.74
36:BO:93:GLY:HA2	36:BO:112:LEU:HD12	1.70	0.74
37:BP:37:LEU:HA	37:BP:100:GLY:CA	2.17	0.74
40:BS:34:VAL:HG11	40:BS:78:LEU:CD1	2.16	0.74
46:BY:49:ARG:O	46:BY:51:ALA:N	2.21	0.74
32:BK:124:GLY:O	32:BK:143:SER:HA	1.87	0.74
2:A1:48:U:H2'	2:A1:49:U:C5	2.21	0.74
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.69	0.74
1:AA:1144:G:N2	1:AA:1146:A:H62	1.84	0.74
1:AA:1236:A:H5''	1:AA:1304:G:H5''	1.70	0.74
1:AA:1360:A:N3	1:AA:1360:A:H2'	2.01	0.74
1:AA:1064:G:OP1	1:AA:1386:G:H4'	1.86	0.74
1:AA:371:G:C2'	1:AA:372:C:C5'	2.63	0.74
1:AA:738:C:H2'	1:AA:739:C:H6	1.52	0.74
1:AA:784:C:H5''	24:BA:1837:C:OP1	1.87	0.74
4:AE:103:THR:OG1	4:AE:180:LEU:HD21	1.86	0.74
4:AE:84:GLU:OE2	4:AE:219:VAL:HG21	1.87	0.74
5:AF:131:ARG:HG3	5:AF:166:GLU:OE2	1.85	0.74
7:AH:80:ILE:O	7:AH:90:VAL:HA	1.87	0.74
8:AI:28:ARG:HG2	8:AI:28:ARG:HH11	1.52	0.74
1:AA:1240:U:C2'	9:AJ:32:ARG:HH21	2.00	0.74
9:AJ:75:VAL:HG22	9:AJ:88:PRO:CA	2.17	0.74
12:AM:51:ARG:HB2	12:AM:59:SER:O	1.87	0.74
12:AM:5:ARG:HB2	12:AM:5:ARG:CZ	2.17	0.74
13:AN:69:ALA:HB1	13:AN:103:LEU:HD12	1.68	0.74
13:AN:87:THR:HG22	13:AN:91:ARG:HH12	1.50	0.74
14:AO:41:ARG:NH1	14:AO:55:VAL:HG11	2.02	0.74
14:AO:8:ASN:H	14:AO:8:ASN:HD22	1.35	0.74
1:AA:1316:G:H4'	16:AQ:17:LYS:HD2	1.69	0.74
16:AQ:27:CYS:O	16:AQ:29:ARG:HG3	1.86	0.74
18:AS:3:LYS:CE	18:AS:24:ALA:HB2	2.17	0.74
51:B4:35:GLU:HB3	51:B4:49:CYS:CB	2.16	0.74
54:B7:25:MET:HB3	54:B7:44:LYS:HE2	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:11:CYS:HB3	55:B8:32:HIS:CD2	2.22	0.74
24:BA:1028:A:H2	24:BA:2486:G:O2'	1.70	0.74
24:BA:1106:G:C6	24:BA:1107:G:C6	2.75	0.74
24:BA:1245:G:O2'	24:BA:1246:A:H5'	1.88	0.74
24:BA:1382:G:H2'	24:BA:1383:C:H6	1.51	0.74
24:BA:1669:A:H2'	24:BA:1670:C:H5'	1.68	0.74
24:BA:1820:U:N1	27:BD:202:LYS:HG2	2.03	0.74
24:BA:1944:U:H1'	24:BA:1955:U:C6	2.22	0.74
24:BA:2019:A:H3'	24:BA:2020:A:C5'	2.18	0.74
24:BA:2746:U:O4	24:BA:2756:U:C4	2.40	0.74
24:BA:2877:G:H3'	24:BA:2878:U:C5	2.23	0.74
24:BA:322:A:C5'	24:BA:341:G:H5'	2.18	0.74
24:BA:349:G:H2'	24:BA:350:U:H6	1.48	0.74
24:BA:587:C:C2	24:BA:671:C:O4'	2.39	0.74
24:BA:684:G:C2'	24:BA:687:C:H41	1.98	0.74
28:BE:197:ILE:HD13	28:BE:199:ARG:HH21	1.52	0.74
30:BG:120:LEU:HD22	30:BG:181:ARG:HG2	1.67	0.74
31:BH:97:ARG:HA	31:BH:125:VAL:HG11	1.69	0.74
34:BM:127:ASP:C	34:BM:129:PRO:HD2	2.06	0.74
24:BA:2780:G:N2	34:BM:97:ARG:NH1	2.23	0.74
37:BP:54:MET:SD	37:BP:121:ALA:HB2	2.27	0.74
39:BR:9:ARG:HA	39:BR:12:PHE:CE2	2.22	0.74
42:BU:23:GLU:HB2	42:BU:92:THR:O	1.87	0.74
46:BY:127:LYS:HA	46:BY:164:ALA:H	1.50	0.74
32:BK:93:THR:CG2	32:BK:95:LYS:HB3	2.17	0.74
18:AS:44:THR:HG23	18:AS:45:THR:HG23	1.70	0.74
24:BA:1416:G:N2	24:BA:1582:C:O2	2.20	0.74
24:BA:363(C):G:O2'	24:BA:363(D):G:H5'	1.88	0.74
1:AA:101:A:H2'	1:AA:102:G:C8	2.19	0.74
1:AA:1150:U:H5'	1:AA:1280:A:C2	2.22	0.74
1:AA:1319:A:H4'	21:AV:70:LYS:NZ	2.01	0.74
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.23	0.74
1:AA:17:U:H2'	1:AA:18:C:H6	1.53	0.74
1:AA:301:G:N2	1:AA:302:G:H1'	2.02	0.74
4:AE:74:LYS:NZ	4:AE:76:GLN:HB2	2.03	0.74
6:AG:118:ARG:NH2	6:AG:136:PRO:HB2	2.02	0.74
7:AH:72:GLN:HE22	7:AH:145:LYS:H	1.33	0.74
10:AK:11:THR:HA	10:AK:14:ARG:NH1	2.03	0.74
15:AP:60:VAL:CA	15:AP:63:THR:HG22	2.15	0.74
20:AU:29:PHE:CE2	20:AU:39:VAL:HG11	2.23	0.74
48:B1:20:VAL:CB	48:B1:55:LEU:HD23	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:7:ILE:C	52:B5:9:LEU:N	2.41	0.74
54:B7:16:ILE:HG23	54:B7:22:VAL:HG23	1.69	0.74
24:BA:1020:A:C2	24:BA:1140:C:H2'	2.22	0.74
24:BA:1128:A:N6	24:BA:2518:A:N6	2.14	0.74
24:BA:1142:U:H6	24:BA:1142(A):A:C8	2.05	0.74
24:BA:1222:C:C4	24:BA:1223:C:C5	2.75	0.74
24:BA:1321:A:C2	24:BA:1322:A:O4'	2.40	0.74
24:BA:1407:C:H2'	24:BA:1408:C:H6	1.53	0.74
24:BA:1625:C:H2'	24:BA:1626:G:C4'	2.03	0.74
24:BA:1667:G:C2	24:BA:1991:U:C4	2.75	0.74
24:BA:237:C:H2'	24:BA:238:C:H6	1.51	0.74
24:BA:2865:U:H6	24:BA:2865:U:O5'	1.71	0.74
24:BA:387:U:H4'	24:BA:388:G:O4'	1.88	0.74
24:BA:697:C:C2'	24:BA:698:C:H5''	2.17	0.74
24:BA:750:A:O2'	24:BA:751:A:H5''	1.87	0.74
24:BA:915:C:H2'	24:BA:916:G:O4'	1.87	0.74
27:BD:79:VAL:HG21	27:BD:112:GLN:O	1.87	0.74
24:BA:1799:G:H3'	27:BD:183:ARG:HH21	1.52	0.74
29:BF:194:MET:CE	29:BF:200:GLU:HG2	2.18	0.74
29:BF:93:LYS:HG2	29:BF:94:PRO:O	1.88	0.74
30:BG:118:ARG:NH1	30:BG:118:ARG:HB3	2.01	0.74
30:BG:32:PRO:HG2	30:BG:172:LEU:HB2	1.70	0.74
31:BH:11:VAL:CG1	31:BH:11:VAL:O	2.34	0.74
34:BM:58:ASP:CG	34:BM:59:LYS:HG3	2.08	0.74
36:BO:23:PRO:HB2	36:BO:28:GLY:CA	2.15	0.74
39:BR:13:ARG:HD3	39:BR:89:ARG:HE	1.51	0.74
45:BX:46:LYS:CE	45:BX:52:SER:HB2	2.18	0.74
46:BY:77:ASP:OD2	46:BY:80:ARG:HD3	1.88	0.74
24:BA:2135:A:C4'	24:BA:2136:C:H5	2.01	0.74
24:BA:1116:C:H2'	24:BA:1117:G:H8	1.50	0.74
1:AA:1239:A:H1'	1:AA:1241:G:C8	2.22	0.74
1:AA:137:C:H2'	1:AA:138:G:O5'	1.86	0.74
4:AE:178:ARG:NH2	4:AE:196:LEU:HB2	2.01	0.74
4:AE:20:GLU:O	4:AE:39:ILE:HG13	1.86	0.74
5:AF:83:ARG:O	5:AF:85:ARG:N	2.19	0.74
9:AJ:121:ALA:O	9:AJ:125:MET:HG2	1.87	0.74
10:AK:104:ARG:O	10:AK:106:GLY:N	2.20	0.74
10:AK:107:LEU:H	10:AK:107:LEU:HD23	1.50	0.74
1:AA:590:C:OP1	10:AK:29:SER:HB3	1.88	0.74
15:AP:19:LEU:HD11	15:AP:30:ALA:HB2	1.69	0.74
1:AA:728:A:C8	17:AR:54:ARG:CZ	2.71	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:20:VAL:CG1	18:AS:21:VAL:N	2.51	0.74
49:B2:17:LYS:HA	49:B2:20:LYS:NZ	2.02	0.74
24:BA:210:C:H5''	53:B6:29:LYS:NZ	2.01	0.74
54:B7:53:PRO:HA	54:B7:56:GLU:CD	2.07	0.74
24:BA:1316:U:O2'	24:BA:1317:A:H5'	1.88	0.74
24:BA:1568:G:H5''	27:BD:60:ARG:C	2.07	0.74
24:BA:15:G:O2'	24:BA:16:G:H5'	1.88	0.74
24:BA:2017:U:H2'	24:BA:2018:G:OP1	1.86	0.74
24:BA:980:A:H2	24:BA:2038:G:O4'	1.69	0.74
24:BA:2631:G:N2	28:BE:61:ARG:HH12	1.86	0.74
24:BA:2808:U:C3'	24:BA:2809:A:H5''	2.18	0.74
24:BA:386:G:H4'	24:BA:387:U:C5	2.23	0.74
24:BA:542:C:O2'	24:BA:543:C:H5'	1.88	0.74
24:BA:814:C:H4'	24:BA:1224:G:N2	2.02	0.74
25:BB:100:G:H2'	25:BB:101:A:H8	1.49	0.74
27:BD:176:ARG:NH2	27:BD:182:LEU:HD11	2.03	0.74
28:BE:110:GLY:HA2	28:BE:161:GLY:C	2.07	0.74
28:BE:119:ARG:HG3	28:BE:156:MET:O	1.87	0.74
28:BE:2:LYS:HD3	28:BE:83:ASP:HB3	1.70	0.74
28:BE:51:PHE:CD1	28:BE:76:ARG:HG2	2.22	0.74
30:BG:40:ASN:HD22	30:BG:41:GLN:H	1.36	0.74
30:BG:75:LYS:CD	30:BG:85:GLY:H	2.00	0.74
36:BO:120:ALA:HB1	36:BO:137:LYS:HB3	1.68	0.74
37:BP:109:VAL:HG22	37:BP:113:GLN:HB2	1.68	0.74
37:BP:58:PHE:O	37:BP:60:ARG:N	2.21	0.74
40:BS:19:LEU:O	40:BS:20:PRO:C	2.26	0.74
40:BS:17:THR:HB	40:BS:20:PRO:CD	2.18	0.74
41:BT:50:ARG:HE	42:BU:75:PHE:HE2	1.30	0.74
43:BV:25:ARG:HA	43:BV:71:VAL:HG11	1.67	0.74
46:BY:48:PHE:HB3	46:BY:54:HIS:CE1	2.23	0.74
46:BY:68:PRO:HG3	46:BY:131:ARG:HH22	1.51	0.74
1:AA:1004:A:C8	1:AA:1036:G:O6	2.32	0.74
1:AA:1057:G:H2'	1:AA:1058:G:H8	1.51	0.74
1:AA:1408:A:H2	1:AA:1494:G:O2'	1.70	0.74
6:AG:64:LEU:HD13	6:AG:65:ARG:N	2.03	0.74
8:AI:73:ASN:O	8:AI:76:ALA:HB3	1.88	0.74
8:AI:77:ARG:HA	8:AI:80:ARG:NE	2.03	0.74
10:AK:7:ALA:HA	10:AK:10:LEU:CD1	2.17	0.74
10:AK:112:LEU:HA	10:AK:134:ILE:HG13	1.69	0.74
10:AK:55:GLY:O	10:AK:57:PRO:HD3	1.88	0.74
10:AK:5:PRO:HA	10:AK:8:ASP:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:86:ILE:HG21	10:AK:133:LEU:CB	2.15	0.74
11:AL:74:ILE:O	11:AL:77:ILE:HB	1.88	0.74
13:AN:102:GLY:C	13:AN:104:GLN:N	2.40	0.74
13:AN:121:PRO:O	13:AN:126:ARG:HD2	1.88	0.74
15:AP:22:ILE:O	15:AP:25:ILE:HG13	1.86	0.74
15:AP:29:ARG:HD3	15:AP:64:TRP:CZ2	2.23	0.74
15:AP:87:TYR:CB	21:AV:73:GLU:HB2	2.17	0.74
17:AR:5:LYS:HB2	17:AR:5:LYS:NZ	2.03	0.74
50:B3:42:PHE:O	50:B3:61:ARG:NH1	2.21	0.74
51:B4:17:ASP:O	51:B4:18:ALA:C	2.25	0.74
53:B6:43:THR:HG23	53:B6:46:VAL:HG21	1.67	0.74
24:BA:1025:G:N3	24:BA:1025:G:H2'	2.02	0.74
24:BA:1203:G:C4	24:BA:1241:A:H8	2.05	0.74
24:BA:1270:C:C4'	24:BA:1271:G:H5''	2.18	0.74
24:BA:2210:G:O6	27:BD:150:LYS:HA	1.87	0.74
24:BA:2227:A:H2'	24:BA:2228:G:O4'	1.86	0.74
24:BA:239:U:H2'	24:BA:240:G:O4'	1.88	0.74
24:BA:2655:G:H2'	24:BA:2655:G:N3	2.03	0.74
24:BA:2661:G:H2'	24:BA:2662:A:C8	2.19	0.74
24:BA:2718:G:H2'	24:BA:2719:G:C8	2.22	0.74
24:BA:2833:G:H2'	24:BA:2833:G:N3	2.03	0.74
24:BA:530:G:O2'	24:BA:531:C:OP1	2.04	0.74
24:BA:623:G:OP2	36:BO:105:LEU:HD11	1.87	0.74
24:BA:932:G:OP1	24:BA:932:G:H4'	1.88	0.74
27:BD:117:VAL:HG13	27:BD:129:ASN:CG	2.08	0.74
24:BA:2619:C:C5'	28:BE:152:LYS:HA	2.18	0.74
29:BF:176:LEU:CG	29:BF:178:PRO:HD2	2.17	0.74
29:BF:184:TYR:H	29:BF:184:TYR:HD2	1.33	0.74
29:BF:41:LEU:HB2	29:BF:44:ARG:NH1	2.02	0.74
30:BG:174:GLU:O	30:BG:179:PRO:HD3	1.88	0.74
30:BG:88:ILE:O	30:BG:88:ILE:HG22	1.88	0.74
32:BK:9:LEU:HD23	32:BK:17:GLN:HE22	1.49	0.74
36:BO:74:GLU:CA	36:BO:107:LYS:HD3	2.18	0.74
37:BP:75:THR:HG22	37:BP:77:LYS:N	2.02	0.74
38:BQ:55:ALA:HA	38:BQ:80:PHE:CD1	2.23	0.74
39:BR:95:HIS:CA	39:BR:99:LYS:HB2	2.17	0.74
43:BV:69:LEU:HD23	43:BV:107:LEU:CD2	2.15	0.74
43:BV:82:LEU:CD1	43:BV:84:ARG:HG3	2.18	0.74
24:BA:856:C:H1'	47:BZ:69:PHE:CE1	2.23	0.74
3:AD:56:C:H5''	26:BC:133:PRO:CG	2.17	0.74
1:AA:1206:G:H4'	5:AF:192:THR:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1273:G:H3'	1:AA:1274:G:C8	2.23	0.74
1:AA:1284:C:H2'	1:AA:1285:A:N7	2.02	0.74
1:AA:1323:G:H4'	1:AA:1362(A):C:C4	2.23	0.74
1:AA:236:G:H3'	1:AA:237:C:H6	1.52	0.74
1:AA:894:G:C4	1:AA:895:G:C8	2.76	0.74
3:AC:16:U:H4'	3:AC:18:G:H5''	1.68	0.74
7:AH:81:GLU:HB3	7:AH:90:VAL:HG22	1.70	0.74
8:AI:99:ALA:HB2	20:AU:31:LEU:HD11	1.68	0.74
9:AJ:107:ALA:O	9:AJ:110:GLN:HB2	1.88	0.74
9:AJ:155:ARG:HA	9:AJ:155:ARG:NE	2.02	0.74
1:AA:1290:G:H4'	9:AJ:37:ASN:ND2	2.03	0.74
10:AK:29:SER:N	10:AK:32:LYS:HD2	2.03	0.74
13:AN:57:THR:CG2	13:AN:60:ALA:H	1.97	0.74
14:AO:83:VAL:HG22	14:AO:84:LEU:N	2.02	0.74
15:AP:29:ARG:HH12	15:AP:66:LEU:HB3	1.53	0.74
18:AS:23:ASP:O	18:AS:25:ARG:N	2.21	0.74
1:AA:474:G:P	18:AS:81:ARG:HA	2.27	0.74
21:AV:11:VAL:HG11	21:AV:41:VAL:HG22	1.70	0.74
21:AV:22:LEU:CG	21:AV:25:LYS:HZ1	1.99	0.74
22:AW:40:ALA:HB2	22:AW:55:ILE:CG2	2.18	0.74
53:B6:41:ARG:CB	53:B6:41:ARG:NH1	2.51	0.74
24:BA:1156:A:OP1	41:BT:55:ARG:NE	2.20	0.74
24:BA:1160:G:H2'	24:BA:1161:C:H5	1.53	0.74
24:BA:1269:A:H61	24:BA:2011:U:H3	1.32	0.74
24:BA:126:A:N7	24:BA:127:A:C4	2.56	0.74
24:BA:1359:A:H62	24:BA:1371:G:N2	1.81	0.74
24:BA:1476:C:C5	24:BA:1477:A:N6	2.56	0.74
24:BA:1602:U:O5'	24:BA:1602:U:C2	2.41	0.74
24:BA:1602:U:C6	24:BA:1602:U:C3'	2.69	0.74
24:BA:1913:A:C6	24:BA:1918:A:N7	2.56	0.74
24:BA:2092:U:H5	24:BA:2227:A:N6	1.86	0.74
24:BA:2345:G:HO2'	24:BA:2346:A:P	2.10	0.74
24:BA:197:A:H61	24:BA:248:G:H22	1.30	0.74
24:BA:2491:U:C6	24:BA:2492:U:C5'	2.70	0.74
24:BA:1782:C:N4	24:BA:2587:A:C6	2.56	0.74
24:BA:953:A:H2'	24:BA:954:G:C5'	2.09	0.74
25:BB:78:A:C2'	25:BB:79:C:H5'	2.18	0.74
27:BD:95:LEU:O	27:BD:102:LYS:HB3	1.88	0.74
27:BD:134:ARG:HG2	27:BD:187:GLY:C	2.08	0.74
24:BA:1566:A:C4	27:BD:215:LEU:HD22	2.22	0.74
24:BA:783:A:H3'	27:BD:227:ASN:HD21	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:87:ASN:O	27:BD:88:ARG:HB2	1.87	0.74
28:BE:102:VAL:HA	28:BE:200:GLU:OE1	1.88	0.74
30:BG:111:LEU:HB3	30:BG:112:PRO:HD3	1.68	0.74
35:BN:63:VAL:HG23	35:BN:81:ASP:HA	1.69	0.74
36:BO:121:LYS:H	36:BO:137:LYS:CB	2.01	0.74
43:BV:77:ASP:O	43:BV:102:HIS:O	2.05	0.74
45:BX:47:LYS:HB2	45:BX:49:VAL:CG2	2.18	0.74
45:BX:98:VAL:O	45:BX:99:CYS:SG	2.45	0.74
46:BY:122:ARG:CG	46:BY:171:ILE:HA	2.17	0.74
37:BP:59:ARG:NH2	46:BY:177:PRO:HB3	2.02	0.74
47:BZ:37:LEU:HD21	47:BZ:60:PHE:CA	2.18	0.74
47:BZ:72:ARG:HB2	47:BZ:78:TYR:CD1	2.22	0.74
2:A1:34:U:H2'	2:A1:35:U:C6	2.22	0.74
1:AA:110:C:O2'	1:AA:111:G:H5'	1.88	0.74
1:AA:1151:A:OP1	12:AM:41:PRO:HA	1.87	0.74
1:AA:949:A:H1'	1:AA:1364:U:H3	1.51	0.74
1:AA:1479:C:O2'	1:AA:1480:G:H5'	1.87	0.74
1:AA:438:G:N2	1:AA:495:A:H8	1.86	0.74
1:AA:517:G:O2'	1:AA:530:G:H4'	1.87	0.74
1:AA:52:G:H2'	1:AA:53:A:O4'	1.87	0.74
4:AE:82:ARG:H	4:AE:94:ASN:HD21	1.35	0.74
4:AE:91:PRO:HD3	4:AE:154:LEU:HD13	1.70	0.74
5:AF:186:PHE:HA	5:AF:198:VAL:O	1.88	0.74
6:AG:194:LEU:HB3	6:AG:196:LEU:HD11	1.70	0.74
6:AG:200:GLU:HG3	6:AG:201:GLN:N	2.01	0.74
6:AG:8:VAL:O	6:AG:11:LEU:N	2.21	0.74
8:AI:6:VAL:HG12	8:AI:63:TYR:O	1.87	0.74
9:AJ:51:GLN:OE1	9:AJ:58:PRO:HD3	1.88	0.74
12:AM:23:ILE:CG1	12:AM:85:LEU:HB3	2.18	0.74
18:AS:35:LYS:NZ	18:AS:37:GLY:N	2.36	0.74
18:AS:73:LEU:HD13	18:AS:73:LEU:C	2.07	0.74
20:AU:56:THR:HB	20:AU:58:LEU:HD12	1.69	0.74
52:B5:25:LYS:CE	54:B7:35:GLN:HB3	2.18	0.74
24:BA:84:A:O2'	24:BA:103:A:N1	2.20	0.74
24:BA:1053:C:H2'	24:BA:1054:A:C8	2.23	0.74
24:BA:1252:G:H22	41:BT:37:GLU:CG	2.00	0.74
24:BA:1258:C:H2'	24:BA:1259:G:H8	1.51	0.74
24:BA:1475:G:H1	24:BA:1477:A:H61	1.33	0.74
24:BA:2323:G:C2	24:BA:2324:C:C4	2.75	0.74
24:BA:2387:U:C1'	47:BZ:41:ARG:NH2	2.50	0.74
24:BA:2408:U:O2'	24:BA:2409:G:H5'	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2619:C:O2'	24:BA:2620:C:H5'	1.86	0.74
24:BA:26:G:H22	24:BA:27:G:H21	1.36	0.74
24:BA:2805:G:C3'	24:BA:2807:G:H5''	2.14	0.74
24:BA:623:G:H2'	24:BA:624:C:H5''	1.68	0.74
25:BB:25:A:H2'	25:BB:26:A:C8	2.23	0.74
25:BB:58:A:H8	25:BB:58:A:O5'	1.69	0.74
27:BD:133:LEU:HB2	27:BD:187:GLY:HA2	1.69	0.74
28:BE:51:PHE:CZ	28:BE:75:VAL:HG22	2.23	0.74
30:BG:125:PHE:HA	30:BG:132:ASN:HB3	1.70	0.74
30:BG:113:ARG:HD3	30:BG:139:LEU:HD21	1.70	0.74
30:BG:74:LYS:HG2	30:BG:75:LYS:CD	2.18	0.74
3:AC:57:G:H1'	30:BG:82:LEU:HD11	1.70	0.74
31:BH:26:VAL:HG21	31:BH:75:ALA:CB	2.18	0.74
34:BM:107:LEU:HD22	34:BM:117:PHE:CE1	2.22	0.74
34:BM:55:VAL:HB	34:BM:130:HIS:CE1	2.21	0.74
36:BO:116:GLY:HA3	36:BO:121:LYS:O	1.88	0.74
37:BP:124:LYS:CB	37:BP:124:LYS:HZ2	1.92	0.74
43:BV:70:TYR:CZ	43:BV:72:LYS:HB2	2.22	0.74
24:BA:456:C:C5	44:BW:68:ARG:NH1	2.55	0.74
45:BX:12:THR:HG22	45:BX:13:VAL:N	2.01	0.74
45:BX:88:LYS:HB3	45:BX:91:GLU:CD	2.08	0.74
46:BY:168:GLU:OE1	46:BY:169:GLU:HA	1.88	0.74
47:BZ:19:LYS:HZ1	47:BZ:41:ARG:HE	1.34	0.74
26:BC:19:ILE:HG23	26:BC:223:ARG:CG	2.18	0.74
24:BA:2:G:H2'	24:BA:3:U:C6	2.22	0.74
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.03	0.73
1:AA:479:C:O5'	1:AA:479:C:H6	1.71	0.73
1:AA:88:C:O2'	1:AA:89:U:C6	2.41	0.73
1:AA:93:U:H2'	1:AA:95:G:C8	2.22	0.73
1:AA:92:G:H2'	1:AA:93:U:O4'	1.87	0.73
3:AB:62:C:H2'	3:AB:63:G:H8	1.51	0.73
3:AC:21:A:N6	3:AC:46:G:H22	1.85	0.73
4:AE:15:VAL:HG23	4:AE:16:HIS:ND1	2.03	0.73
6:AG:152:SER:O	6:AG:154:ASN:N	2.20	0.73
7:AH:11:ILE:CG2	7:AH:12:LEU:H	2.01	0.73
10:AK:61:VAL:HG12	10:AK:62:TYR:N	2.02	0.73
11:AL:19:LEU:HD22	11:AL:59:PHE:HD2	1.51	0.73
11:AL:85:LEU:HD23	11:AL:96:LEU:CD1	2.15	0.73
12:AM:50:ILE:HA	12:AM:60:ARG:CG	2.11	0.73
14:AO:41:ARG:HB3	14:AO:41:ARG:HH11	1.53	0.73
16:AQ:15:LYS:O	16:AQ:16:PHE:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:110:ASP:OD1	20:AU:85:LEU:HB3	1.87	0.73
21:AV:15:LEU:HG	21:AV:16:LEU:H	1.51	0.73
21:AV:45:VAL:HA	21:AV:67:VAL:HG21	1.70	0.73
22:AW:44:ALA:HB1	22:AW:91:LEU:HB2	1.70	0.73
22:AW:72:LEU:CD2	22:AW:76:ALA:HB1	2.18	0.73
50:B3:43:TYR:HA	50:B3:61:ARG:CZ	2.16	0.73
52:B5:44:ARG:HB2	52:B5:47:THR:HG21	1.70	0.73
53:B6:42:LEU:HB3	53:B6:44:PRO:CG	2.17	0.73
24:BA:1664:A:H2'	24:BA:1665:A:H8	1.51	0.73
24:BA:244:A:N6	24:BA:245:G:N3	2.36	0.73
24:BA:545:G:C1'	24:BA:549:G:H22	1.97	0.73
24:BA:580:C:H2'	24:BA:581:C:C6	2.23	0.73
24:BA:624:C:C3'	24:BA:624:C:C6	2.71	0.73
24:BA:691:C:C1'	27:BD:45:ASN:HD21	2.01	0.73
24:BA:824:A:H2'	24:BA:825:C:C5	2.23	0.73
24:BA:861:A:C6	24:BA:917:A:N3	2.56	0.73
25:BB:44:G:H21	25:BB:48:A:H1'	1.51	0.73
27:BD:154:LYS:O	27:BD:155:LEU:HB3	1.88	0.73
28:BE:4:ILE:CG2	28:BE:30:PRO:HG3	2.18	0.73
28:BE:49:LEU:HD12	28:BE:51:PHE:H	1.53	0.73
29:BF:110:LEU:O	29:BF:114:VAL:HG23	1.88	0.73
30:BG:39:ILE:HG23	30:BG:157:ILE:CG1	2.17	0.73
33:BL:21:PRO:HG2	33:BL:22:PRO:HD3	1.69	0.73
34:BM:13:TRP:O	34:BM:138:LEU:HD12	1.87	0.73
40:BS:103:ARG:O	40:BS:104:ASN:C	2.24	0.73
40:BS:32:TYR:O	40:BS:47:GLY:CA	2.32	0.73
41:BT:94:ASN:HD22	42:BU:6:LYS:HE3	1.51	0.73
42:BU:21:ARG:HG3	42:BU:21:ARG:HH11	1.52	0.73
42:BU:68:LYS:HZ3	42:BU:95:LEU:CD1	2.00	0.73
45:BX:1:MET:CA	45:BX:33:LYS:HE3	2.17	0.73
45:BX:46:LYS:HZ2	45:BX:52:SER:HB2	1.50	0.73
32:BK:101:LEU:HG	32:BK:102:SER:N	2.03	0.73
1:AA:1382:C:H2'	1:AA:1383:C:C6	2.23	0.73
1:AA:1064:G:N3	1:AA:1066:C:N3	2.36	0.73
1:AA:1364:U:O2'	1:AA:1365:G:OP1	2.06	0.73
1:AA:49:U:C5	1:AA:361:G:N2	2.56	0.73
1:AA:50:A:N6	1:AA:361:G:C4'	2.50	0.73
4:AE:171:ALA:HA	4:AE:174:VAL:HB	1.70	0.73
9:AJ:105:VAL:O	9:AJ:108:ALA:HB3	1.88	0.73
11:AL:58:HIS:CD2	11:AL:59:PHE:HD1	2.06	0.73
15:AP:13:LYS:HB3	15:AP:17:VAL:HG11	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:29:ARG:HB3	16:AQ:29:ARG:NH1	2.02	0.73
19:AT:34:LYS:HE2	19:AT:35:VAL:O	1.89	0.73
21:AV:22:LEU:HD23	21:AV:22:LEU:O	1.87	0.73
22:AW:87:LYS:CE	22:AW:87:LYS:HA	2.18	0.73
48:B1:14:VAL:O	48:B1:17:GLU:HB2	1.88	0.73
50:B3:10:VAL:H	50:B3:11:PRO:HD3	1.52	0.73
50:B3:5:ILE:HD12	50:B3:8:LYS:C	2.08	0.73
24:BA:1340:U:HO2'	24:BA:1394:U:HO2'	1.35	0.73
24:BA:1517:G:H21	24:BA:1518:C:H1'	1.53	0.73
24:BA:154:G:H2'	24:BA:155:C:C6	2.23	0.73
24:BA:1864:U:H2'	24:BA:1869:G:C5'	2.18	0.73
24:BA:1943:U:H4'	24:BA:1944:U:C5'	2.18	0.73
24:BA:1967:C:O2	24:BA:1967:C:H2'	1.86	0.73
24:BA:1987:G:C2	24:BA:1988:C:C5	2.76	0.73
24:BA:2052:G:N9	28:BE:150:VAL:HG23	2.03	0.73
24:BA:805:G:O6	24:BA:2068:U:P	2.45	0.73
24:BA:2209:C:H2'	24:BA:2210:G:H3'	1.69	0.73
24:BA:2285:C:O4'	24:BA:2288:A:N6	2.20	0.73
24:BA:2447:G:O6	24:BA:2452:C:N4	2.20	0.73
24:BA:2469:A:C2	24:BA:2470:G:H1'	2.23	0.73
24:BA:2725:A:C2'	24:BA:2726:U:H3'	2.16	0.73
24:BA:2889:C:H2'	24:BA:2891:G:H8	1.46	0.73
24:BA:531:C:H3'	24:BA:532:A:O4'	1.88	0.73
24:BA:571:A:C8	24:BA:575:A:N6	2.55	0.73
24:BA:637:A:H2	24:BA:651:G:H5''	1.53	0.73
24:BA:752:A:N6	24:BA:1781:C:C1'	2.51	0.73
24:BA:75:G:H4'	48:B1:50:ARG:HH11	1.51	0.73
24:BA:81:G:H4'	24:BA:294:A:H2	1.52	0.73
24:BA:861:A:C5	24:BA:917:A:C2	2.75	0.73
29:BF:41:LEU:HB3	29:BF:184:TYR:HE1	1.53	0.73
31:BH:154:PRO:O	31:BH:155:SER:HB3	1.85	0.73
33:BL:71:THR:OG1	33:BL:114:ASP:HB3	1.87	0.73
35:BN:23:ARG:O	35:BN:39:ILE:HB	1.88	0.73
35:BN:63:VAL:O	35:BN:64:ARG:HB3	1.88	0.73
36:BO:13:ASN:ND2	36:BO:14:LYS:N	2.35	0.73
38:BQ:11:ASN:CG	38:BQ:12:ARG:N	2.41	0.73
24:BA:2723:C:H4'	38:BQ:2:ARG:O	1.88	0.73
39:BR:76:LYS:HE3	39:BR:77:ALA:HB2	1.70	0.73
35:BN:76:ALA:HA	40:BS:77:PRO:CG	2.18	0.73
41:BT:59:ARG:HB3	41:BT:59:ARG:NH1	2.04	0.73
44:BW:60:ARG:HD3	44:BW:62:LYS:HZ3	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:9:LEU:N	44:BW:9:LEU:HD12	2.03	0.73
32:BK:77:LEU:HD12	32:BK:142:VAL:CG1	2.17	0.73
3:AD:15:G:C6	3:AD:48:C:N4	2.55	0.73
24:BA:2121:G:H2'	24:BA:2122:U:C6	2.23	0.73
26:BC:59:ARG:HH11	26:BC:164:ARG:HG2	1.52	0.73
24:BA:2670:A:H5''	28:BE:206:LYS:NZ	2.03	0.73
12:AM:3:LYS:HE3	12:AM:77:PRO:HD3	1.69	0.73
26:BC:34:THR:O	26:BC:34:THR:HG22	1.88	0.73
1:AA:1048:G:O4'	1:AA:1215:G:H4'	1.87	0.73
1:AA:1049:U:H1'	1:AA:1201:A:O4'	1.87	0.73
1:AA:1142:G:H2'	1:AA:1143:G:H8	1.53	0.73
1:AA:122:G:N2	1:AA:123:C:H1'	2.04	0.73
1:AA:1468:A:H2'	1:AA:1469:G:C5'	2.18	0.73
1:AA:1520:G:HO2'	1:AA:1521:G:H8	1.36	0.73
1:AA:362:G:H8	14:AO:34:ARG:NH2	1.80	0.73
1:AA:510:A:N3	1:AA:543:C:H1'	2.03	0.73
1:AA:553:A:H2'	1:AA:554:C:H6	1.51	0.73
1:AA:652:U:H4'	1:AA:653:A:OP1	1.87	0.73
4:AE:102:LEU:HD12	4:AE:102:LEU:N	2.01	0.73
4:AE:14:GLY:O	4:AE:15:VAL:HG13	1.88	0.73
4:AE:80:ILE:HD11	4:AE:208:ILE:HG23	1.68	0.73
5:AF:152:ILE:HG22	5:AF:167:TRP:HB2	1.70	0.73
5:AF:76:VAL:O	5:AF:83:ARG:HG2	1.88	0.73
8:AI:41:GLU:HB3	8:AI:62:TRP:HE3	1.50	0.73
9:AJ:87:VAL:HG22	9:AJ:151:TYR:HB3	1.68	0.73
10:AK:93:VAL:O	10:AK:133:LEU:HG	1.89	0.73
11:AL:73:GLN:O	11:AL:77:ILE:HG13	1.88	0.73
12:AM:8:LEU:CD1	12:AM:94:VAL:HG11	2.18	0.73
13:AN:67:ASP:O	13:AN:71:LYS:HG2	1.86	0.73
1:AA:582:U:H5''	17:AR:68:ARG:HH12	1.52	0.73
17:AR:71:GLN:HB2	17:AR:78:TYR:CE1	2.24	0.73
19:AT:28:PRO:HB2	19:AT:33:GLY:O	1.88	0.73
20:AU:18:ARG:NH2	20:AU:21:LYS:HB2	2.02	0.73
49:B2:20:LYS:O	49:B2:23:LEU:HB2	1.87	0.73
52:B5:19:ARG:CZ	52:B5:41:PRO:HG3	2.17	0.73
24:BA:1534:G:N2	24:BA:1537:C:H5	1.85	0.73
24:BA:173:G:H21	24:BA:174:C:H1'	1.52	0.73
24:BA:1797:C:C2	24:BA:1798:U:C5	2.76	0.73
24:BA:290:G:OP2	24:BA:351:G:N2	2.21	0.73
24:BA:782:A:H5''	24:BA:783:A:OP1	1.87	0.73
24:BA:983:A:H2'	24:BA:984:A:C8	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:138:VAL:HA	27:BD:165:ILE:CG2	2.18	0.73
24:BA:1566:A:N1	27:BD:215:LEU:HD13	2.03	0.73
27:BD:72:LYS:HD3	27:BD:75:ILE:HD12	1.68	0.73
28:BE:182:LEU:CD2	28:BE:184:VAL:HG13	2.18	0.73
30:BG:138:GLN:OE1	30:BG:152:LEU:HD12	1.88	0.73
30:BG:6:ALA:O	30:BG:9:ARG:HB3	1.89	0.73
31:BH:6:ARG:HD2	31:BH:66:GLY:HA2	1.69	0.73
33:BL:102:GLU:O	33:BL:106:GLU:HG3	1.88	0.73
35:BN:38:VAL:HA	35:BN:59:LYS:O	1.88	0.73
40:BS:33:LYS:HD3	40:BS:47:GLY:HA3	1.70	0.73
41:BT:94:ASN:HD22	42:BU:6:LYS:CE	2.00	0.73
46:BY:4:ARG:CG	46:BY:5:LEU:H	1.98	0.73
3:AD:9:A:C2	3:AD:46:G:H1'	2.23	0.73
26:BC:114:VAL:HA	26:BC:144:THR:O	1.87	0.73
1:AA:1011:G:H2'	1:AA:1012:U:H5'	1.69	0.73
1:AA:174:C:O2'	1:AA:175:C:H5'	1.88	0.73
1:AA:410:G:H1'	1:AA:432:A:N6	2.02	0.73
1:AA:610:G:C2'	1:AA:611:A:H5'	2.18	0.73
1:AA:967:C:H2'	1:AA:968:A:N7	2.03	0.73
3:AC:17:C:H5'	3:AC:18:G:O5'	1.87	0.73
5:AF:125:GLU:OE1	5:AF:190:ARG:HB2	1.87	0.73
8:AI:98:LEU:CD2	8:AI:101:ALA:HB2	2.17	0.73
15:AP:59:TYR:CE2	15:AP:60:VAL:HG23	2.24	0.73
51:B4:18:ALA:O	51:B4:21:SER:OG	2.04	0.73
24:BA:1163:G:C2	24:BA:1164:G:C8	2.76	0.73
24:BA:1222:C:O2'	24:BA:1223:C:H5'	1.89	0.73
24:BA:1270:C:H4'	24:BA:1271:G:H5''	1.68	0.73
24:BA:1275:A:N7	24:BA:1296:G:H1'	2.03	0.73
24:BA:1302:A:H5'	24:BA:1608:A:OP1	1.88	0.73
24:BA:1556:C:H2'	24:BA:1557:C:H6	1.53	0.73
24:BA:2652:C:H2'	24:BA:2653:U:O4'	1.89	0.73
24:BA:2720:U:H2'	24:BA:2720:U:O2	1.88	0.73
24:BA:2781:A:C3'	24:BA:2781:A:C8	2.71	0.73
24:BA:282:A:C5	24:BA:283:A:H4'	2.24	0.73
24:BA:2888:C:H2'	24:BA:2889:C:C6	2.22	0.73
24:BA:292:C:C6	24:BA:293:U:N3	2.56	0.73
24:BA:531:C:N3	41:BT:38:THR:HG22	2.03	0.73
24:BA:558:G:OP1	34:BM:112:LEU:HG	1.88	0.73
24:BA:563:G:N2	41:BT:34:LYS:HE2	2.04	0.73
24:BA:618:G:H2'	24:BA:618(A):C:C6	2.23	0.73
24:BA:817:C:H2'	24:BA:818:G:O4'	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:917:A:C8	24:BA:918:A:H5''	2.23	0.73
24:BA:983:A:C2	24:BA:984:A:C2	2.77	0.73
28:BE:13:ARG:NH2	28:BE:20:ALA:CB	2.49	0.73
37:BP:75:THR:HG21	37:BP:88:GLY:O	1.86	0.73
40:BS:48:ILE:HG12	40:BS:49:VAL:O	1.88	0.73
43:BV:18:ARG:HH21	43:BV:18:ARG:HB2	1.53	0.73
43:BV:41:LYS:HZ3	43:BV:41:LYS:HB3	1.52	0.73
44:BW:63:LYS:HA	44:BW:63:LYS:NZ	2.02	0.73
1:AA:1148:U:H2'	1:AA:1148:U:O2	1.87	0.73
1:AA:195:A:H4'	22:AW:68:LYS:HZ3	1.52	0.73
1:AA:526:C:H42	1:AA:535:A:H2	1.35	0.73
1:AA:749:C:O2	1:AA:749:C:H2'	1.86	0.73
4:AE:42:ILE:HD11	4:AE:202:PRO:CB	2.17	0.73
4:AE:75:LYS:NZ	4:AE:75:LYS:HA	2.03	0.73
4:AE:77:ALA:HB2	4:AE:211:ILE:CD1	2.19	0.73
7:AH:63:ARG:HA	7:AH:66:MET:HG2	1.68	0.73
9:AJ:27:ILE:HG12	9:AJ:43:PHE:CD1	2.23	0.73
9:AJ:47:CYS:HA	9:AJ:50:ILE:CD1	2.18	0.73
13:AN:32:ILE:HD11	13:AN:68:ALA:O	1.88	0.73
14:AO:24:VAL:CG2	14:AO:97:ARG:HG2	2.17	0.73
15:AP:27:LYS:HD2	15:AP:31:LYS:HZ3	1.52	0.73
21:AV:33:THR:HG21	21:AV:49:ILE:HD12	1.69	0.73
22:AW:64:ASP:O	22:AW:67:ALA:HB3	1.88	0.73
48:B1:23:LYS:HE3	48:B1:52:ILE:HG12	1.71	0.73
51:B4:4:HIS:C	51:B4:4:HIS:CD2	2.62	0.73
24:BA:2017:U:O2'	51:B4:8:LYS:O	2.03	0.73
24:BA:140:A:C2	24:BA:1408:C:H1'	2.24	0.73
24:BA:1649:G:H21	38:BQ:107:ASP:CB	1.89	0.73
24:BA:1668:A:N3	24:BA:1669:A:N1	2.37	0.73
24:BA:1949:G:O2'	24:BA:1950:G:H5'	1.89	0.73
24:BA:1999:C:H2'	24:BA:2000:G:O5'	1.87	0.73
24:BA:2027:G:H1'	24:BA:2037:G:H22	1.52	0.73
24:BA:220:G:N2	24:BA:265:A:H61	1.85	0.73
24:BA:245:G:C5	24:BA:246:C:H5	2.06	0.73
3:AB:74:C:N4	24:BA:2556:C:O4'	2.21	0.73
24:BA:2791:C:H5	24:BA:2893:G:N7	1.84	0.73
24:BA:546:C:H2'	24:BA:547:A:N9	2.03	0.73
24:BA:627:A:H1'	24:BA:637:A:C6	2.23	0.73
24:BA:691:C:O2'	27:BD:45:ASN:ND2	2.22	0.73
24:BA:947:G:O5'	24:BA:947:G:H8	1.70	0.73
25:BB:51:G:C2'	25:BB:52:A:O5'	2.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:60:ARG:HA	27:BD:62:TYR:CZ	2.23	0.73
29:BF:153:SER:OG	29:BF:190:GLU:HG2	1.87	0.73
30:BG:9:ARG:HD2	30:BG:10:LYS:NZ	2.03	0.73
30:BG:55:LYS:HG3	30:BG:148:MET:CB	2.19	0.73
24:BA:1081:U:H4'	33:BL:122:ALA:HB1	1.70	0.73
34:BM:95:PRO:HA	34:BM:98:VAL:HG23	1.70	0.73
36:BO:122:PRO:CB	36:BO:138:LEU:N	2.51	0.73
29:BF:31:HIS:ND1	36:BO:14:LYS:HE3	2.03	0.73
37:BP:137:TYR:CE2	46:BY:124:ILE:HD11	2.23	0.73
39:BR:6:ALA:HA	39:BR:9:ARG:NH1	2.04	0.73
40:BS:79:HIS:HB2	40:BS:82:LEU:HB2	1.70	0.73
41:BT:62:ILE:HG22	41:BT:63:VAL:N	2.01	0.73
42:BU:62:LEU:CD1	42:BU:98:GLU:HG2	2.18	0.73
45:BX:47:LYS:HZ2	45:BX:51:VAL:HG21	1.53	0.73
3:AD:41:C:H5'	3:AD:41:C:H6	1.54	0.73
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.70	0.73
1:AA:266:G:H2'	19:AT:67:LYS:HZ2	1.50	0.73
1:AA:598:U:O2'	10:AK:94:TYR:HB3	1.87	0.73
1:AA:730:G:N7	1:AA:731:G:H1'	2.03	0.73
1:AA:923:A:OP1	7:AH:21:ALA:HB2	1.88	0.73
4:AE:31:TYR:HE2	4:AE:200:ILE:HG21	1.54	0.73
4:AE:84:GLU:HG2	4:AE:234:PRO:CD	2.16	0.73
4:AE:56:ARG:HH11	4:AE:56:ARG:CB	2.01	0.73
5:AF:84:ILE:CG1	5:AF:101:LEU:HD22	2.18	0.73
5:AF:85:ARG:HH21	5:AF:89:GLU:CB	2.01	0.73
5:AF:88:ARG:O	5:AF:91:LEU:HB3	1.89	0.73
6:AG:173:TRP:HA	6:AG:186:LEU:HD12	1.70	0.73
6:AG:82:ALA:HB3	6:AG:89:THR:CG2	2.17	0.73
7:AH:81:GLU:N	7:AH:81:GLU:CD	2.41	0.73
8:AI:14:LEU:CD1	8:AI:18:GLN:HB3	2.18	0.73
10:AK:8:ASP:O	10:AK:12:ARG:HG3	1.89	0.73
12:AM:45:ARG:HH11	12:AM:45:ARG:CB	1.98	0.73
14:AO:104:VAL:HG12	14:AO:105:TYR:CD1	2.24	0.73
1:AA:1047:G:H5''	16:AQ:4:LYS:HD3	1.70	0.73
12:AM:65:LEU:HD12	16:AQ:56:VAL:CG2	2.15	0.73
17:AR:15:PHE:O	17:AR:17:ARG:N	2.21	0.73
18:AS:54:GLU:C	18:AS:54:GLU:CD	2.46	0.73
24:BA:2419:U:O4	54:B7:31:HIS:HE1	1.69	0.73
54:B7:3:LYS:HE2	54:B7:59:LYS:CE	2.19	0.73
54:B7:5:LYS:O	54:B7:7:HIS:N	2.22	0.73
24:BA:1075:C:O2	24:BA:1075:C:H2'	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1101:U:OP1	24:BA:1101:U:H6	1.70	0.73
24:BA:1709:U:H1'	24:BA:2860:A:H1'	1.71	0.73
24:BA:1814:G:C2	24:BA:1815:A:N6	2.56	0.73
3:AC:75:C:OP1	24:BA:2602:A:OP1	2.06	0.73
24:BA:2808:U:C2	24:BA:2892:A:N6	2.56	0.73
24:BA:2839:G:O2'	24:BA:2840:C:H5'	1.88	0.73
24:BA:373:U:O2	24:BA:400:G:N2	2.22	0.73
24:BA:449:A:O2'	24:BA:450:G:H5'	1.89	0.73
24:BA:556:G:H2'	24:BA:557:U:C6	2.23	0.73
24:BA:808:G:H2'	24:BA:809:G:C8	2.24	0.73
24:BA:881:G:N2	24:BA:896:A:H61	1.85	0.73
24:BA:942:G:N1	24:BA:943:U:O4	2.22	0.73
27:BD:263:ARG:O	27:BD:266:SER:HB3	1.88	0.73
27:BD:5:LYS:CB	27:BD:29:PRO:HD3	2.19	0.73
28:BE:7:VAL:HG13	28:BE:194:GLY:O	1.88	0.73
28:BE:44:TYR:HD2	28:BE:45:THR:H	1.37	0.73
28:BE:49:LEU:HD21	28:BE:75:VAL:C	2.09	0.73
28:BE:49:LEU:HD13	28:BE:76:ARG:O	1.87	0.73
30:BG:128:ARG:HH12	30:BG:162:THR:HA	1.54	0.73
30:BG:32:PRO:O	30:BG:172:LEU:HD22	1.87	0.73
31:BH:127:GLU:HG3	31:BH:130:ARG:HB2	1.69	0.73
31:BH:140:LYS:HA	31:BH:143:GLN:NE2	2.03	0.73
31:BH:7:LEU:HD22	31:BH:65:HIS:NE2	2.04	0.73
33:BL:10:LEU:CD1	33:BL:12:LEU:HD11	2.16	0.73
34:BM:55:VAL:HG21	34:BM:127:ASP:CA	2.18	0.73
35:BN:112:MET:HA	35:BN:115:VAL:CG2	2.18	0.73
37:BP:26:TYR:CD1	37:BP:27:VAL:N	2.49	0.73
39:BR:52:SER:HB3	39:BR:69:VAL:HG13	1.70	0.73
40:BS:56:GLY:O	40:BS:61:PHE:HB3	1.89	0.73
40:BS:85:LYS:HB3	40:BS:85:LYS:HZ2	1.53	0.73
34:BM:4:TYR:HD2	41:BT:100:VAL:HG11	1.50	0.73
42:BU:28:GLU:C	42:BU:30:GLY:H	1.92	0.73
43:BV:5:ALA:HB1	43:BV:50:VAL:HG12	1.68	0.73
43:BV:98:LYS:HB3	43:BV:98:LYS:HZ2	1.52	0.73
44:BW:57:LEU:HD23	44:BW:58:HIS:N	2.04	0.73
46:BY:28:MET:SD	46:BY:29:TYR:N	2.62	0.73
32:BK:81:VAL:HG13	32:BK:144:VAL:CG2	2.15	0.73
32:BK:81:VAL:HG22	32:BK:144:VAL:HG22	1.71	0.73
24:BA:2132:U:H5''	24:BA:2133:G:H5'	1.69	0.73
45:BX:42:VAL:CG2	45:BX:61:ILE:HG21	2.18	0.73
1:AA:116:A:OP2	1:AA:289:G:H5''	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:38:G:N3	1:AA:397:A:N6	2.35	0.73
1:AA:873:A:H5'	1:AA:874:G:OP2	1.89	0.73
1:AA:886:G:C2'	1:AA:887:G:H5'	2.18	0.73
1:AA:8:A:H4'	1:AA:9:G:OP1	1.88	0.73
1:AA:953:G:H2'	1:AA:954:G:H8	1.53	0.73
1:AA:959:A:H1'	1:AA:985:C:H1'	1.70	0.73
4:AE:72:GLY:HA3	4:AE:81:VAL:HG21	1.71	0.73
8:AI:53:ALA:HB1	8:AI:86:ARG:HH11	1.52	0.73
8:AI:95:GLU:OE2	8:AI:96:PRO:HD3	1.88	0.73
10:AK:104:ARG:NE	10:AK:138:TRP:CZ3	2.57	0.73
11:AL:115:GLY:O	11:AL:117:HIS:N	2.21	0.73
1:AA:950:U:H5''	15:AP:102:ARG:NH2	2.01	0.73
19:AT:58:GLU:O	19:AT:58:GLU:OE1	2.07	0.73
21:AV:62:ILE:HD11	21:AV:67:VAL:HG13	1.70	0.73
50:B3:59:PHE:N	50:B3:62:ARG:CZ	2.52	0.73
51:B4:17:ASP:O	51:B4:21:SER:OG	2.06	0.73
24:BA:1203:G:O6	24:BA:1240:U:H2'	1.86	0.73
24:BA:1238:G:C2'	24:BA:1239:G:H5'	2.18	0.73
24:BA:1363:C:O2'	24:BA:1809:A:C8	2.41	0.73
24:BA:1394:U:H4'	24:BA:1603:A:C5'	2.18	0.73
24:BA:1609:A:H62	24:BA:1616:A:H2	1.34	0.73
24:BA:1716:U:O2	24:BA:1716:U:C2'	2.36	0.73
24:BA:1908:C:N4	24:BA:1923:U:N3	2.37	0.73
24:BA:1955:U:H2'	24:BA:1956:U:OP1	1.88	0.73
24:BA:2010:G:C2'	24:BA:2011:U:H5'	2.19	0.73
24:BA:2225:A:H5'	24:BA:2226:C:H6	1.54	0.73
24:BA:826:U:OP1	24:BA:2428:G:H3'	1.88	0.73
24:BA:247:G:C5	24:BA:249:C:O2	2.41	0.73
3:AB:63:G:C1'	24:BA:2482:G:H4'	2.19	0.73
24:BA:2586:C:H2'	24:BA:2587:A:C8	2.23	0.73
24:BA:351:G:C1'	24:BA:352:G:N7	2.52	0.73
24:BA:360:G:O2'	24:BA:361:G:H5'	1.89	0.73
24:BA:532:A:C8	24:BA:561:G:N2	2.57	0.73
24:BA:532:A:H62	41:BT:45:TYR:HH	1.34	0.73
24:BA:630:G:H2'	24:BA:632:A:OP2	1.88	0.73
24:BA:713:G:N3	24:BA:713:G:H2'	2.03	0.73
24:BA:192:C:O2	24:BA:802:A:H1'	1.89	0.73
24:BA:848:G:H21	24:BA:933:A:H1'	1.51	0.73
24:BA:1799:G:C8	27:BD:268:ARG:NH1	2.57	0.73
27:BD:42:GLY:CA	27:BD:60:ARG:HH22	2.01	0.73
28:BE:113:PHE:HA	28:BE:158:GLY:C	2.08	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:119:GLY:C	30:BG:120:LEU:HD23	2.08	0.73
30:BG:146:TYR:HE1	30:BG:149:VAL:HA	1.52	0.73
34:BM:103:VAL:HG22	34:BM:104:LYS:H	1.52	0.73
34:BM:122:VAL:HG23	34:BM:123:TYR:N	2.03	0.73
35:BN:24:VAL:HG21	35:BN:26:LYS:CE	2.17	0.73
35:BN:64:ARG:NH1	35:BN:67:LYS:N	2.25	0.73
24:BA:1665:A:H5''	35:BN:65:THR:O	1.88	0.73
37:BP:50:ALA:HB2	37:BP:125:LEU:HD11	1.70	0.73
39:BR:28:VAL:HG22	39:BR:29:PHE:N	2.01	0.73
40:BS:7:ILE:O	40:BS:11:GLU:CD	2.27	0.73
41:BT:108:GLU:HB2	41:BT:111:GLU:OE1	1.88	0.73
41:BT:58:ARG:O	41:BT:62:ILE:HG13	1.89	0.73
47:BZ:56:ASP:OD1	47:BZ:58:THR:HB	1.88	0.73
32:BK:94:ALA:HB1	32:BK:114:LEU:CD1	2.19	0.73
26:BC:53:ARG:O	26:BC:55:ASP:N	2.21	0.73
26:BC:63:SER:O	26:BC:65:PRO:HD3	1.88	0.73
24:BA:1583:A:C5'	24:BA:1585:C:H5'	2.18	0.73
2:A1:20:G:C2'	2:A1:21:G:H5'	2.19	0.73
3:AD:39:U:H2'	3:AD:40:C:C6	2.23	0.73
30:BG:51:ARG:H	30:BG:51:ARG:HD2	1.53	0.73
1:AA:1055:A:N3	1:AA:1055:A:H2'	2.03	0.73
1:AA:109:A:N7	1:AA:326:G:N3	2.37	0.73
1:AA:1317:C:H6	1:AA:1317:C:O5'	1.72	0.73
1:AA:270:A:H2'	1:AA:271:C:C6	2.23	0.73
1:AA:541:G:C4'	6:AG:42:GLN:HB2	2.18	0.73
1:AA:936:C:O2'	1:AA:937:A:H5'	1.87	0.73
5:AF:3:ASN:CG	5:AF:4:LYS:H	1.89	0.73
7:AH:145:LYS:HA	7:AH:148:VAL:CG2	2.19	0.73
7:AH:86:ALA:HB3	7:AH:130:ASN:ND2	2.03	0.73
10:AK:95:VAL:HB	10:AK:99:GLU:OE1	1.87	0.73
22:AW:49:ALA:HB3	22:AW:99:LEU:CD1	2.19	0.73
50:B3:59:PHE:HD1	50:B3:60:GLN:H	1.35	0.73
24:BA:467:G:OP1	53:B6:33:ARG:NH1	2.21	0.73
54:B7:7:HIS:O	54:B7:11:LYS:HG3	1.87	0.73
24:BA:1197:G:C5	24:BA:1198:U:C5	2.76	0.73
24:BA:146:G:C3'	24:BA:147:U:H5''	2.19	0.73
24:BA:1530:G:H2'	24:BA:1531:C:N1	2.03	0.73
24:BA:1702:G:C6	24:BA:1703:G:N7	2.57	0.73
24:BA:1902:C:H2'	24:BA:1903:G:H5'	1.71	0.73
24:BA:1919:A:OP2	24:BA:1920:C:H5	1.72	0.73
24:BA:231:C:H42	24:BA:232:G:N2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2284:C:O2'	24:BA:2325:G:N2	2.22	0.73
24:BA:2497:A:O2'	24:BA:2498:C:O5'	2.06	0.73
24:BA:2520:C:C5	24:BA:2567:G:C4	2.76	0.73
24:BA:28:A:H2'	24:BA:29:U:H5'	1.69	0.73
24:BA:648:G:H2'	24:BA:649:G:C8	2.24	0.73
24:BA:771:G:C6	24:BA:772:C:N4	2.57	0.73
24:BA:792:G:H21	24:BA:2072:G:H1'	1.53	0.73
24:BA:997:G:H5''	41:BT:92:ARG:HD2	1.69	0.73
25:BB:54:G:O2'	25:BB:55:U:H5'	1.89	0.73
27:BD:146:GLU:O	27:BD:189:CYS:HB3	1.88	0.73
29:BF:36:VAL:HG11	29:BF:183:VAL:CG1	2.19	0.73
30:BG:26:GLN:HG2	30:BG:29:TRP:CZ3	2.24	0.73
24:BA:2745:C:H1'	31:BH:143:GLN:HG2	1.71	0.73
33:BL:9:LYS:CA	33:BL:56:GLU:HG2	2.18	0.73
33:BL:11:GLN:HE22	33:BL:73:PRO:HG2	1.53	0.73
34:BM:86:PRO:HD2	34:BM:89:LYS:HD2	1.71	0.73
35:BN:10:VAL:HG22	35:BN:12:ASP:OD1	1.89	0.73
35:BN:39:ILE:C	35:BN:59:LYS:HZ1	1.92	0.73
36:BO:92:GLU:H	36:BO:125:VAL:HG11	1.54	0.73
38:BQ:8:ARG:HE	38:BQ:10:LEU:HD11	1.49	0.73
39:BR:26:LEU:HD11	39:BR:37:ALA:HB1	1.70	0.73
24:BA:2848:G:OP2	40:BS:99:LEU:HD12	1.88	0.73
41:BT:110:VAL:HG12	41:BT:111:GLU:N	2.03	0.73
41:BT:89:GLU:CB	42:BU:52:VAL:N	2.44	0.73
45:BX:19:LYS:NZ	45:BX:39:VAL:O	2.21	0.73
46:BY:6:LYS:HG2	46:BY:7:ALA:H	1.54	0.73
32:BK:112:LYS:N	32:BK:112:LYS:HD2	2.01	0.73
1:AA:1269:A:H2'	1:AA:1270:C:H4'	1.70	0.73
1:AA:1310:G:C8	21:AV:2:PRO:HD3	2.24	0.73
1:AA:1413:A:O2'	1:AA:1414:U:C5'	2.36	0.73
1:AA:440:A:H3'	1:AA:442:C:H6	1.53	0.73
3:AD:74:C:P	50:B3:22:ILE:HG12	2.27	0.73
4:AE:71:VAL:CG1	4:AE:73:THR:HG23	2.19	0.73
5:AF:120:VAL:HG21	5:AF:137:ALA:CB	2.18	0.73
5:AF:156:ARG:HB3	5:AF:193:TYR:CD1	2.24	0.73
11:AL:79:LEU:HD13	11:AL:101:PHE:CB	2.18	0.73
1:AA:716:A:C1'	13:AN:118:GLY:HA2	2.15	0.73
13:AN:85:ARG:HH11	13:AN:85:ARG:HG3	1.53	0.73
22:AW:17:ARG:O	22:AW:20:LEU:HB2	1.89	0.73
24:BA:1158:C:C4'	49:B2:32:GLN:HE21	2.01	0.73
49:B2:40:THR:HG22	49:B2:42:ALA:N	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:40:HIS:HB3	50:B3:41:PRO:CD	2.19	0.73
52:B5:16:CYS:SG	52:B5:19:ARG:NH1	2.61	0.73
52:B5:20:ASN:HD22	52:B5:41:PRO:CB	1.98	0.73
24:BA:179:G:H5'	53:B6:32:LYS:HZ3	1.54	0.73
53:B6:34:ARG:HB3	53:B6:34:ARG:NH1	2.01	0.73
24:BA:1071:G:C2'	24:BA:1072:C:H5'	2.19	0.73
24:BA:1655:A:H2'	24:BA:1656:C:O4'	1.89	0.73
24:BA:1707:G:H2'	24:BA:1708:C:H6	1.54	0.73
24:BA:1851:U:H2'	24:BA:1852:C:C5	2.24	0.73
24:BA:1655:A:N6	24:BA:2005:A:H1'	2.04	0.73
24:BA:572:A:H2	24:BA:2033:A:N1	1.86	0.73
24:BA:2073:C:H2'	24:BA:2074:U:O4'	1.88	0.73
24:BA:2389:G:H5''	24:BA:2390:U:O5'	1.89	0.73
24:BA:2711:A:OP1	24:BA:2712(A):A:OP1	2.07	0.73
24:BA:2733:A:H2'	24:BA:2734:A:O4'	1.88	0.73
24:BA:298:G:N1	24:BA:338:G:O2'	2.22	0.73
24:BA:962:G:C2'	24:BA:963:U:C6	2.69	0.73
24:BA:995:C:H42	34:BM:3:THR:HA	1.54	0.73
25:BB:73:A:H2'	25:BB:74:U:C6	2.23	0.73
24:BA:1775:U:C2	27:BD:208:LYS:HD2	2.23	0.73
24:BA:1788:C:H2'	27:BD:222:ARG:HE	1.54	0.73
28:BE:13:ARG:CZ	28:BE:20:ALA:HB3	2.19	0.73
24:BA:2745:C:O2'	31:BH:143:GLN:HG3	1.88	0.73
31:BH:8:PRO:CD	31:BH:69:ARG:HH11	2.02	0.73
24:BA:2684:U:O2'	35:BN:67:LYS:HG3	1.88	0.73
35:BN:63:VAL:CG2	35:BN:81:ASP:HA	2.17	0.73
37:BP:34:LEU:HA	37:BP:131:ILE:CG1	2.11	0.73
39:BR:39:ILE:C	39:BR:40:ILE:HD12	2.09	0.73
41:BT:108:GLU:O	41:BT:109:LEU:C	2.26	0.73
41:BT:99:ALA:HA	41:BT:106:PHE:HB2	1.69	0.73
46:BY:141:VAL:HG13	46:BY:142:SER:H	1.54	0.73
32:BK:127:VAL:HG13	32:BK:141:LYS:N	2.03	0.73
3:AD:47:U:C2'	3:AD:48:C:H5''	2.15	0.73
3:AD:62:C:C5'	26:BC:52:ARG:HD3	2.19	0.73
15:AP:120:LYS:O	15:AP:121:LYS:HB2	1.88	0.73
1:AA:1068:G:N7	1:AA:1094:G:N7	2.36	0.73
1:AA:1126:U:H2'	1:AA:1127:G:H8	1.54	0.73
1:AA:1493:A:N1	3:AB:36:A:O2'	2.22	0.73
1:AA:191(C):G:H2'	1:AA:191(D):U:H6	1.54	0.73
1:AA:254:G:O2'	1:AA:255:G:H5'	1.89	0.73
3:AC:11:C:H2'	3:AC:12:U:C6	2.24	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:115:LEU:HD13	4:AE:145:LEU:CB	2.19	0.73
5:AF:120:VAL:CG1	5:AF:133:ALA:HB1	2.19	0.73
5:AF:31:HIS:O	5:AF:34:LEU:HB3	1.89	0.73
6:AG:12:CYS:HB3	6:AG:33:MET:CE	2.18	0.73
6:AG:152:SER:O	6:AG:155:LEU:HD22	1.89	0.73
6:AG:200:GLU:CG	6:AG:201:GLN:HE21	2.02	0.73
6:AG:59:ARG:HA	6:AG:59:ARG:CZ	2.18	0.73
7:AH:109:ILE:HG23	7:AH:110:LEU:HD23	1.71	0.73
7:AH:7:GLU:HG2	7:AH:112:LEU:HD21	1.71	0.73
7:AH:28:PHE:O	7:AH:47:LYS:HA	1.89	0.73
7:AH:82:VAL:HG21	7:AH:137:GLU:HB3	1.70	0.73
8:AI:26:ILE:HG22	8:AI:30:LEU:HD11	1.70	0.73
8:AI:37:VAL:HA	8:AI:65:VAL:CG1	2.19	0.73
9:AJ:50:ILE:HG21	9:AJ:58:PRO:HA	1.71	0.73
12:AM:11:PHE:CE1	16:AQ:55:GLY:HA3	2.24	0.73
13:AN:21:ILE:HA	13:AN:30:VAL:HG22	1.71	0.73
15:AP:14:ARG:CG	15:AP:17:VAL:HG23	2.19	0.73
15:AP:19:LEU:HD12	15:AP:20:THR:N	2.03	0.73
16:AQ:26:ARG:CB	16:AQ:43:CYS:HB2	2.18	0.73
21:AV:15:LEU:HG	21:AV:16:LEU:HD13	1.71	0.73
52:B5:48:VAL:HG13	52:B5:49:HIS:N	2.00	0.73
24:BA:688:U:OP2	53:B6:2:LYS:HE2	1.88	0.73
53:B6:42:LEU:C	53:B6:44:PRO:HD2	2.07	0.73
24:BA:125:G:O3'	53:B6:47:ARG:NH1	2.22	0.73
24:BA:1055:G:N3	24:BA:1084:A:H2	1.86	0.73
24:BA:1203:G:C6	24:BA:1240:U:O2	2.35	0.73
24:BA:1471:A:H2'	24:BA:1472:A:H5'	1.69	0.73
24:BA:1729:A:N7	24:BA:1731:G:O6	2.21	0.73
24:BA:1798:U:C5'	27:BD:257:LEU:HB2	2.18	0.73
24:BA:2097:C:O2'	24:BA:2098:U:H5'	1.88	0.73
24:BA:2396:G:H4'	50:B3:27:THR:HA	1.69	0.73
24:BA:2450:A:OP1	24:BA:2497:A:N7	2.22	0.73
24:BA:2459:A:C2	24:BA:2460:U:H1'	2.23	0.73
24:BA:245:G:C4	24:BA:246:C:H5	2.07	0.73
24:BA:2619:C:H5''	28:BE:152:LYS:HB2	1.69	0.73
24:BA:2626:C:H2'	24:BA:2627:G:H8	1.51	0.73
24:BA:754:C:C2'	24:BA:755:C:H5'	2.19	0.73
24:BA:882:G:H1'	24:BA:896:A:N6	2.04	0.73
27:BD:175:LEU:C	27:BD:182:LEU:HD23	2.10	0.73
28:BE:109:LYS:HG3	28:BE:191:PRO:CG	2.18	0.73
28:BE:119:ARG:HE	28:BE:120:TRP:N	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:45:THR:OG1	28:BE:46:ALA:N	2.21	0.73
24:BA:2787:C:C5'	28:BE:64:LYS:HD2	2.18	0.73
28:BE:81:ILE:HG22	28:BE:82:ARG:HG2	1.70	0.73
29:BF:12:LEU:HB3	29:BF:127:GLU:HB3	1.71	0.73
34:BM:102:ALA:O	34:BM:105:GLY:CA	2.36	0.73
35:BN:70:LYS:HD3	35:BN:107:ARG:NH1	2.04	0.73
36:BO:99:LEU:HD13	36:BO:101:VAL:HG22	1.69	0.73
37:BP:134:ARG:HH21	37:BP:137:TYR:HD1	1.36	0.73
37:BP:42:ILE:O	37:BP:94:VAL:HB	1.87	0.73
41:BT:22:LYS:H	41:BT:24:TYR:HE1	1.37	0.73
41:BT:40:PHE:HB3	42:BU:78:LYS:CD	2.19	0.73
43:BV:81:ALA:HB1	43:BV:98:LYS:O	1.89	0.73
45:BX:12:THR:C	45:BX:73:ARG:CZ	2.56	0.73
46:BY:78:LYS:NZ	46:BY:78:LYS:HB3	2.04	0.73
32:BK:146:ALA:C	32:BK:148:GLU:N	2.42	0.73
1:AA:1431:C:N4	1:AA:1469:G:H1	1.86	0.72
1:AA:449:C:C2	1:AA:450:G:C1'	2.65	0.72
1:AA:777:A:H2'	1:AA:778:G:C8	2.23	0.72
1:AA:986:A:H1'	21:AV:54:GLY:O	1.89	0.72
3:AB:74:C:C5	24:BA:2556:C:O4'	2.42	0.72
5:AF:38:ARG:CB	5:AF:94:LEU:HD21	2.19	0.72
7:AH:125:SER:C	7:AH:127:ASN:H	1.92	0.72
7:AH:89:ILE:CG1	7:AH:131:ILE:HD12	2.17	0.72
8:AI:23:LYS:O	8:AI:26:ILE:CB	2.36	0.72
13:AN:95:ILE:HG23	13:AN:98:LEU:HD12	1.70	0.72
50:B3:23:GLU:C	50:B3:25:TYR:H	1.91	0.72
36:BO:45:LEU:HD13	54:B7:59:LYS:HZ1	1.54	0.72
24:BA:1025:G:H1'	24:BA:1134:G:C4'	2.19	0.72
24:BA:1308:A:H2'	24:BA:1309:G:O4'	1.89	0.72
24:BA:1341:U:N3	24:BA:1398:C:H5'	2.02	0.72
24:BA:1513:C:N4	24:BA:1514:U:O4	2.22	0.72
24:BA:1530:G:H3'	24:BA:1531:C:C6	2.24	0.72
24:BA:1557:C:C2	24:BA:1558:A:N7	2.57	0.72
24:BA:1299:G:H1	24:BA:1639:U:H3'	1.54	0.72
24:BA:2056:G:H2'	24:BA:2056:G:N3	2.02	0.72
3:AD:76:A:H2'	24:BA:2432:A:O2'	1.89	0.72
24:BA:2447:G:N7	24:BA:2500:U:H2'	2.04	0.72
24:BA:2569:G:C2	24:BA:2570:G:N7	2.57	0.72
24:BA:2597:G:O4'	27:BD:242:ARG:NE	2.21	0.72
24:BA:2662:A:H2'	24:BA:2663:G:H5'	1.71	0.72
24:BA:270(C):C:O2'	24:BA:270(D):C:H5'	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:52:A:H2'	24:BA:53:A:C8	2.14	0.72
24:BA:672:C:H2'	24:BA:673:C:H6	1.53	0.72
24:BA:718:A:H3'	24:BA:719:C:C6	2.24	0.72
24:BA:725:G:C6	24:BA:726:G:N2	2.54	0.72
24:BA:775:G:H5'	24:BA:777:A:C1'	2.18	0.72
24:BA:2597:G:C1'	27:BD:242:ARG:NH2	2.52	0.72
24:BA:1804:C:H4'	27:BD:250:TRP:CZ2	2.24	0.72
27:BD:84:TYR:HB3	27:BD:91:ARG:HG3	1.71	0.72
28:BE:115:GLY:HA2	28:BE:157:ALA:HA	1.71	0.72
28:BE:93:VAL:HG12	28:BE:177:PRO:O	1.88	0.72
31:BH:11:VAL:HG13	31:BH:15:VAL:CG1	2.18	0.72
39:BR:69:VAL:O	39:BR:72:ALA:HB3	1.88	0.72
24:BA:2876:G:C4'	40:BS:1:MET:H2	2.00	0.72
40:BS:54:ARG:HG2	40:BS:100:TYR:CB	2.14	0.72
40:BS:92:GLY:C	40:BS:93:ARG:HE	1.92	0.72
41:BT:32:PHE:CD1	41:BT:32:PHE:N	2.55	0.72
24:BA:1152:C:O2'	41:BT:80:ILE:HD12	1.87	0.72
41:BT:88:ILE:HD13	41:BT:88:ILE:H	1.50	0.72
43:BV:36:LEU:HD11	43:BV:47:VAL:HG21	1.71	0.72
44:BW:32:PRO:HA	44:BW:77:LYS:CD	2.17	0.72
45:BX:97:ARG:HA	45:BX:101:LYS:CG	2.17	0.72
46:BY:151:HIS:CB	46:BY:168:GLU:HG2	2.18	0.72
46:BY:73:GLN:O	46:BY:74:VAL:HG23	1.89	0.72
26:BC:118:ASP:OD1	26:BC:119:VAL:HG13	1.86	0.72
1:AA:842:C:H4'	1:AA:848:C:N3	2.05	0.72
1:AA:959:A:H3'	1:AA:960:U:C5'	2.19	0.72
3:AC:74:C:N4	47:BZ:4:LYS:NZ	2.38	0.72
4:AE:101:MET:CA	4:AE:108:ILE:HG13	2.18	0.72
4:AE:144:ARG:O	4:AE:147:LYS:HB3	1.89	0.72
5:AF:15:THR:CG2	5:AF:181:ASN:HA	2.16	0.72
8:AI:24:GLU:O	8:AI:27:GLN:HB2	1.88	0.72
10:AK:114:THR:HA	10:AK:131:GLY:HA3	1.72	0.72
14:AO:93:LEU:O	14:AO:96:VAL:HG23	1.88	0.72
18:AS:6:LEU:CD2	18:AS:17:TYR:HD2	2.03	0.72
20:AU:53:ARG:HG2	20:AU:63:GLN:HE21	1.53	0.72
22:AW:51:GLU:HB3	22:AW:54:LYS:HZ2	1.52	0.72
22:AW:87:LYS:HE3	22:AW:87:LYS:CA	2.19	0.72
48:B1:51:GLN:O	48:B1:55:LEU:HD13	1.88	0.72
54:B7:39:LYS:HB3	54:B7:39:LYS:HZ3	1.54	0.72
24:BA:1203:G:H1	24:BA:1206:G:H1	1.35	0.72
24:BA:1453:A:C6	24:BA:1454:U:H1'	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1445:C:O2	24:BA:1466:G:N2	2.22	0.72
24:BA:1539:G:N7	24:BA:1540:G:N7	2.37	0.72
24:BA:1817:G:C2'	24:BA:1818:U:H5'	2.19	0.72
24:BA:2208:U:H1'	24:BA:2217:G:N1	2.03	0.72
24:BA:2307:G:H3'	24:BA:2308:G:C4'	2.20	0.72
24:BA:2433:A:H2'	24:BA:2433:A:N3	2.03	0.72
24:BA:2433:A:OP2	24:BA:2433:A:H3'	1.88	0.72
24:BA:2054:A:H62	24:BA:2577:A:H61	1.36	0.72
24:BA:2687:U:O2	24:BA:2688:U:H6	1.71	0.72
24:BA:2853:C:H2'	24:BA:2854:G:H8	1.53	0.72
24:BA:361:G:H2'	24:BA:362:U:O4'	1.89	0.72
24:BA:453:C:H4'	24:BA:457:A:N6	2.04	0.72
24:BA:455:C:C4'	24:BA:456:C:OP1	2.36	0.72
24:BA:71:A:N3	24:BA:73:A:C6	2.57	0.72
25:BB:84:C:H2'	25:BB:85:G:H5''	1.70	0.72
30:BG:125:PHE:HA	30:BG:132:ASN:CB	2.19	0.72
31:BH:29:PRO:HD3	31:BH:79:VAL:HA	1.71	0.72
33:BL:10:LEU:HD13	33:BL:27:LEU:CD2	2.19	0.72
24:BA:1080:C:O2'	33:BL:126:MET:HG2	1.89	0.72
33:BL:58:THR:HG23	33:BL:60:TYR:HB2	1.71	0.72
34:BM:115:ARG:HA	34:BM:118:LYS:HD2	1.71	0.72
35:BN:64:ARG:HH11	35:BN:67:LYS:H	0.77	0.72
36:BO:88:LEU:CG	36:BO:124:LYS:HZ1	2.01	0.72
36:BO:23:PRO:HG2	36:BO:29:LYS:N	2.05	0.72
37:BP:26:TYR:H	37:BP:102:VAL:HB	1.51	0.72
39:BR:42:ASP:C	39:BR:44:LYS:H	1.92	0.72
39:BR:17:ARG:NH2	39:BR:89:ARG:HB2	2.04	0.72
42:BU:19:LYS:O	42:BU:96:ILE:HD11	1.88	0.72
45:BX:86:ARG:HG2	45:BX:91:GLU:CB	2.18	0.72
46:BY:6:LYS:HD2	46:BY:35:ARG:HD3	1.70	0.72
46:BY:98:MET:O	46:BY:126:VAL:HA	1.89	0.72
32:BK:114:LEU:HD22	32:BK:130:TYR:CB	2.19	0.72
24:BA:2110:G:H2'	24:BA:2120:G:C5'	2.19	0.72
24:BA:2115:G:H5''	24:BA:2116:G:OP2	1.89	0.72
26:BC:22:ILE:HD13	26:BC:190:ARG:HH12	1.54	0.72
26:BC:171:ILE:HD13	26:BC:192:PHE:HZ	1.53	0.72
9:AJ:132:GLY:O	9:AJ:136:LYS:CB	2.38	0.72
3:AD:52:G:N2	3:AD:53:G:H1'	2.04	0.72
1:AA:1113:C:H6	1:AA:1113:C:O5'	1.72	0.72
1:AA:1253:G:H21	1:AA:1254:C:H1'	1.55	0.72
1:AA:1441:G:H1'	1:AA:1461:G:H22	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.23	0.72
1:AA:819:A:C2	1:AA:1529:G:O6	2.42	0.72
1:AA:283:C:N3	1:AA:284:G:C8	2.57	0.72
1:AA:507:C:H2'	1:AA:508:C:H5	1.54	0.72
4:AE:171:ALA:O	4:AE:174:VAL:HB	1.88	0.72
4:AE:220:ASP:O	4:AE:224:GLN:HG3	1.89	0.72
5:AF:140:ARG:HA	5:AF:143:GLU:HB2	1.71	0.72
6:AG:58:LEU:HD13	6:AG:59:ARG:NH1	2.04	0.72
7:AH:63:ARG:O	7:AH:66:MET:HG2	1.88	0.72
10:AK:36:LEU:HD12	10:AK:48:TYR:CB	2.19	0.72
11:AL:96:LEU:O	11:AL:100:GLY:HA3	1.88	0.72
1:AA:964:A:H1'	12:AM:55:LYS:NZ	2.04	0.72
18:AS:41:PRO:O	18:AS:43:LYS:HD2	1.88	0.72
20:AU:53:ARG:HA	20:AU:63:GLN:HE21	1.53	0.72
21:AV:5:LEU:HD13	21:AV:9:VAL:HG13	1.71	0.72
22:AW:43:LEU:CD1	22:AW:55:ILE:HD11	2.19	0.72
49:B2:50:VAL:CG1	49:B2:53:LEU:HD12	2.16	0.72
55:B8:16:VAL:HG13	55:B8:16:VAL:O	1.87	0.72
24:BA:1270:C:C4'	24:BA:1271:G:C5'	2.67	0.72
24:BA:1299:G:H5'	24:BA:1301:A:H1'	1.69	0.72
24:BA:1475:G:N2	24:BA:1476:C:H5''	2.03	0.72
24:BA:1568:G:H5''	27:BD:60:ARG:O	1.88	0.72
24:BA:1596:A:N6	24:BA:1597:A:C6	2.57	0.72
24:BA:2001:A:H2'	24:BA:2002:G:C8	2.24	0.72
24:BA:2284:C:H5''	52:B5:9:LEU:CD2	2.18	0.72
24:BA:2357:U:H2'	24:BA:2358:G:C5'	2.18	0.72
24:BA:2746:U:C4	24:BA:2756:U:O4	2.42	0.72
24:BA:2776:A:H4'	24:BA:2777:G:O5'	1.88	0.72
24:BA:2820:A:H2'	24:BA:2821:A:OP1	1.89	0.72
24:BA:448:U:C4	24:BA:583:G:H1'	2.23	0.72
24:BA:465:G:N3	24:BA:683:C:O2'	2.19	0.72
24:BA:477:A:H62	24:BA:502:A:H61	0.80	0.72
24:BA:792:G:N2	24:BA:2072:G:O2'	2.21	0.72
24:BA:836:G:C6	24:BA:837:C:N4	2.57	0.72
27:BD:129:ASN:O	27:BD:193:VAL:CB	2.37	0.72
24:BA:1774:C:C4	27:BD:18:VAL:HG11	2.23	0.72
27:BD:60:ARG:HA	27:BD:62:TYR:OH	1.89	0.72
27:BD:92:ILE:HA	27:BD:106:ILE:O	1.90	0.72
29:BF:123:LEU:HD12	29:BF:193:VAL:CG2	2.18	0.72
29:BF:155:LEU:HA	29:BF:174:VAL:HG23	1.70	0.72
30:BG:36:LYS:HZ3	30:BG:38:VAL:N	1.87	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:9:LEU:O	32:BK:10:GLU:HB2	1.88	0.72
34:BM:103:VAL:HG22	34:BM:104:LYS:N	2.04	0.72
34:BM:127:ASP:OD1	34:BM:128:HIS:N	2.22	0.72
35:BN:39:ILE:O	35:BN:59:LYS:NZ	2.21	0.72
24:BA:1665:A:H5'	35:BN:66:LYS:HD3	1.71	0.72
35:BN:94:ARG:CG	35:BN:96:THR:H	2.01	0.72
37:BP:29:PHE:HD1	37:BP:29:PHE:O	1.72	0.72
37:BP:6:ARG:HH21	37:BP:8:LYS:C	1.93	0.72
37:BP:6:ARG:NH2	37:BP:8:LYS:HG3	2.04	0.72
39:BR:30:ARG:HG2	39:BR:91:PRO:HG3	1.71	0.72
40:BS:55:ASN:HA	40:BS:62:THR:O	1.88	0.72
24:BA:534:U:O2'	41:BT:49:HIS:NE2	2.21	0.72
41:BT:8:VAL:CG2	41:BT:9:VAL:H	2.01	0.72
42:BU:35:LEU:O	42:BU:61:VAL:HG13	1.90	0.72
42:BU:69:LYS:HG2	42:BU:70:ILE:H	1.55	0.72
45:BX:72:VAL:CG2	45:BX:81:LYS:HE2	2.19	0.72
3:AD:17:C:H3'	3:AD:18:G:C8	2.24	0.72
2:A1:30:U:C6	2:A1:30:U:H5'	2.18	0.72
1:AA:1066:C:C6	1:AA:1067:A:N7	2.58	0.72
1:AA:1227:A:H8	1:AA:1228:C:O4'	1.72	0.72
1:AA:1321:C:H6	1:AA:1321:C:O5'	1.71	0.72
1:AA:37:U:C3'	1:AA:37:U:H6	1.94	0.72
1:AA:921:U:O2'	7:AH:19:MET:O	2.07	0.72
1:AA:936:C:C2'	1:AA:937:A:H5'	2.19	0.72
4:AE:82:ARG:CA	4:AE:94:ASN:HD21	2.03	0.72
5:AF:11:ARG:CG	5:AF:16:ARG:HH21	2.02	0.72
6:AG:25:ARG:C	6:AG:27:TYR:H	1.89	0.72
8:AI:68:PRO:HB2	8:AI:71:ARG:HG3	1.71	0.72
10:AK:113:SER:HA	10:AK:117:GLY:O	1.90	0.72
10:AK:122:ARG:HA	10:AK:125:ARG:NH1	2.03	0.72
10:AK:29:SER:CB	10:AK:32:LYS:HZ3	2.01	0.72
21:AV:5:LEU:HD12	21:AV:9:VAL:HG13	1.70	0.72
53:B6:24:THR:HG23	53:B6:27:GLY:HA3	1.71	0.72
24:BA:1180:C:H2'	24:BA:1181:C:H6	1.51	0.72
24:BA:1198:U:H2'	24:BA:1199:U:C6	2.24	0.72
24:BA:1206:G:C2'	24:BA:1207:C:O4'	2.29	0.72
24:BA:1342:A:C1'	24:BA:1345:C:H41	2.02	0.72
24:BA:1364:G:H5''	24:BA:1809:A:C4	2.24	0.72
24:BA:1438:U:H2'	24:BA:1439:A:C5'	2.18	0.72
24:BA:1471:A:C5	24:BA:1521:G:N2	2.57	0.72
24:BA:1670:C:H3'	24:BA:1671:U:H6	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1702:G:C2'	24:BA:1703:G:H5''	2.01	0.72
24:BA:1937:A:N6	24:BA:1939:U:C4	2.52	0.72
24:BA:2497:A:O2'	24:BA:2498:C:C6	2.42	0.72
24:BA:2611:U:H5'	24:BA:2611:U:H6	1.54	0.72
24:BA:270(B):A:HO2'	24:BA:270(C):C:H6	1.36	0.72
24:BA:289:A:C4	24:BA:351:G:O6	2.43	0.72
24:BA:336:C:O2'	24:BA:337:C:H5'	1.89	0.72
24:BA:628:G:C8	24:BA:628:G:O5'	2.42	0.72
24:BA:685:A:C1'	24:BA:688:U:O4	2.37	0.72
24:BA:716:A:C2'	24:BA:717:G:H5'	2.19	0.72
24:BA:997:G:OP2	24:BA:997:G:H8	1.69	0.72
25:BB:117:G:C2	25:BB:118:G:C8	2.77	0.72
24:BA:1655:A:H5''	28:BE:114:ALA:N	2.03	0.72
28:BE:151:TYR:CG	28:BE:152:LYS:N	2.57	0.72
29:BF:182:ASN:HD21	29:BF:185:ASP:CG	1.93	0.72
29:BF:74:ARG:CZ	29:BF:75:HIS:H	2.03	0.72
31:BH:8:PRO:CB	31:BH:51:ARG:HH12	2.01	0.72
34:BM:87:LEU:O	34:BM:91:LEU:HG	1.89	0.72
37:BP:127:ILE:HD13	37:BP:129:THR:CG2	2.19	0.72
38:BQ:86:ARG:NH1	38:BQ:118:GLU:OE1	2.21	0.72
40:BS:45:PHE:CZ	40:BS:87:ASP:HB2	2.25	0.72
42:BU:28:GLU:CB	42:BU:94:LEU:HD12	2.16	0.72
24:BA:85:G:OP1	45:BX:8:LYS:HB3	1.90	0.72
46:BY:2:GLU:OE2	46:BY:58:VAL:CB	2.37	0.72
32:BK:93:THR:HG22	32:BK:96:ASP:OD1	1.89	0.72
26:BC:86:ALA:CA	26:BC:150:GLY:HA2	2.18	0.72
26:BC:213:TYR:CB	26:BC:223:ARG:HA	2.16	0.72
24:BA:1504:C:H6	24:BA:1504:C:O5'	1.73	0.72
2:A1:43:U:H2'	2:A1:44:U:H5	1.49	0.72
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.54	0.72
1:AA:595:G:C8	1:AA:641:U:N3	2.57	0.72
1:AA:81:G:O6	1:AA:87:A:N6	2.23	0.72
3:AB:55:U:C2	3:AB:57:G:H5''	2.25	0.72
3:AC:51:U:H2'	3:AC:52:G:H8	1.55	0.72
4:AE:162:ILE:H	4:AE:162:ILE:HD13	1.55	0.72
6:AG:148:VAL:HG21	6:AG:162:LEU:CD1	2.20	0.72
6:AG:61:LYS:HG3	6:AG:207:TYR:CE1	2.23	0.72
6:AG:82:ALA:HB1	6:AG:92:VAL:HB	1.70	0.72
7:AH:114:GLY:O	7:AH:115:VAL:HG13	1.89	0.72
9:AJ:71:PRO:HG2	9:AJ:96:GLN:HG3	1.72	0.72
13:AN:97:ALA:O	13:AN:100:ALA:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:16:SER:O	13:AN:35:PRO:HG3	1.90	0.72
13:AN:71:LYS:O	13:AN:74:ALA:HB3	1.90	0.72
1:AA:528:C:N4	14:AO:49:ASN:ND2	2.35	0.72
15:AP:98:VAL:H	15:AP:110:ARG:NH2	1.86	0.72
17:AR:63:ARG:HH22	17:AR:87:ILE:HG21	1.53	0.72
18:AS:18:ARG:HH12	18:AS:35:LYS:HB2	0.74	0.72
18:AS:21:VAL:HG13	18:AS:36:ILE:HD11	1.70	0.72
19:AT:61:GLU:HA	19:AT:71:PHE:CE2	2.25	0.72
8:AI:46:ARG:HH22	20:AU:37:VAL:CG1	2.03	0.72
20:AU:86:VAL:O	20:AU:87:ARG:HB2	1.88	0.72
50:B3:14:ILE:HG13	50:B3:39:CYS:HB2	1.70	0.72
50:B3:53:GLU:HG2	50:B3:54:GLY:H	1.52	0.72
24:BA:1155:A:C2	24:BA:1157:G:H1'	2.25	0.72
24:BA:1537:C:H3'	24:BA:1537:C:C6	2.24	0.72
24:BA:2296:U:H3'	24:BA:2296:U:C6	2.23	0.72
24:BA:2305:A:C2'	24:BA:2306:C:H5''	2.18	0.72
24:BA:2296:U:C1'	24:BA:2335:A:H61	1.97	0.72
24:BA:271(B):G:H5''	24:BA:271(C):U:C5'	2.19	0.72
24:BA:411:G:O4'	24:BA:2407:G:OP1	2.07	0.72
24:BA:533:G:H2'	24:BA:534:U:O4'	1.89	0.72
24:BA:729:G:C3'	24:BA:730:C:H4'	2.19	0.72
24:BA:83:G:H1	24:BA:102:G:C2'	2.03	0.72
24:BA:893:C:H2'	24:BA:894:C:C6	2.23	0.72
24:BA:923:C:O4'	47:BZ:26:TYR:HB2	1.89	0.72
25:BB:12:C:C5	47:BZ:74:ARG:HB2	2.24	0.72
27:BD:142:VAL:O	27:BD:163:ALA:CB	2.29	0.72
24:BA:2227:A:H1'	27:BD:262:ARG:HD2	1.70	0.72
24:BA:2227:A:H1'	27:BD:262:ARG:NH1	2.04	0.72
28:BE:121:ASN:HB3	28:BE:122:PHE:HD1	1.55	0.72
29:BF:132:VAL:HG13	29:BF:138:GLU:OE1	1.90	0.72
24:BA:2309:A:N7	30:BG:80:PHE:CE2	2.57	0.72
30:BG:6:ALA:HA	30:BG:9:ARG:CZ	2.19	0.72
31:BH:26:VAL:HG11	31:BH:75:ALA:C	2.10	0.72
31:BH:89:ILE:HD12	31:BH:90:LYS:H	1.51	0.72
24:BA:662:G:C4'	36:BO:18:ARG:H	1.98	0.72
39:BR:89:ARG:HG3	39:BR:90:GLY:N	2.02	0.72
1:AA:1464:G:OP1	40:BS:112:ARG:NH1	2.23	0.72
41:BT:61:TRP:CA	41:BT:65:ILE:HD11	2.20	0.72
42:BU:69:LYS:HE2	42:BU:70:ILE:CD1	2.19	0.72
42:BU:62:LEU:HD13	42:BU:98:GLU:N	2.05	0.72
44:BW:8:ILE:C	44:BW:9:LEU:HG	2.09	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:55:HIS:HB2	46:BY:101:PRO:HG3	1.67	0.72
32:BK:113:ARG:O	32:BK:113:ARG:HD2	1.89	0.72
26:BC:104:LEU:HD13	26:BC:130:ILE:HD11	1.69	0.72
26:BC:46:LYS:HD3	26:BC:210:ARG:HB2	1.72	0.72
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.05	0.72
1:AA:281:G:H4'	1:AA:282:A:H5'	1.70	0.72
1:AA:410:G:C1'	1:AA:432:A:H61	2.03	0.72
1:AA:671:G:N3	1:AA:672:U:H1'	2.04	0.72
1:AA:697:U:O5'	1:AA:697:U:H6	1.72	0.72
1:AA:854:G:C5'	1:AA:871:U:H3	2.01	0.72
4:AE:115:LEU:O	4:AE:118:LEU:HB3	1.88	0.72
6:AG:180:GLY:O	6:AG:182:LYS:HG2	1.89	0.72
7:AH:106:PRO:O	7:AH:109:ILE:HG22	1.89	0.72
7:AH:37:ARG:HA	7:AH:112:LEU:O	1.89	0.72
8:AI:1:MET:CE	8:AI:68:PRO:HG3	2.20	0.72
9:AJ:149:ARG:HB3	13:AN:59:TYR:CZ	2.22	0.72
10:AK:85:ARG:HG2	10:AK:85:ARG:NH1	2.04	0.72
11:AL:71:SER:HA	11:AL:74:ILE:HD12	1.72	0.72
13:AN:42:TRP:HE3	13:AN:43:SER:CA	2.03	0.72
15:AP:37:THR:OG1	15:AP:56:LEU:HA	1.89	0.72
15:AP:92:HIS:CG	15:AP:98:VAL:HG21	2.23	0.72
49:B2:51:ALA:O	49:B2:53:LEU:N	2.22	0.72
24:BA:2815:C:C4'	51:B4:42:PRO:HG3	2.19	0.72
51:B4:50:GLY:HA3	51:B4:57:VAL:CG2	2.20	0.72
52:B5:48:VAL:O	52:B5:49:HIS:CB	2.37	0.72
53:B6:25:PRO:HA	53:B6:28:ARG:NE	2.04	0.72
54:B7:36:LYS:HG3	54:B7:40:GLU:CD	2.10	0.72
24:BA:1077:A:H5'	24:BA:1078:U:OP2	1.89	0.72
24:BA:1165:U:H2'	24:BA:1166:C:C6	2.24	0.72
24:BA:51:G:H1'	24:BA:118:A:H62	1.53	0.72
24:BA:1280:G:O2'	24:BA:1281:G:H5'	1.89	0.72
24:BA:1341:U:O4	24:BA:1395:A:H2	1.72	0.72
24:BA:1430:C:H2'	24:BA:1431:U:H6	1.50	0.72
24:BA:1470:G:N3	24:BA:1522:G:N2	2.37	0.72
24:BA:1657:C:H2'	24:BA:1658:C:O4'	1.90	0.72
24:BA:1712:C:H2'	24:BA:1716:U:H6	1.53	0.72
24:BA:1718:G:C8	24:BA:1725:G:N7	2.58	0.72
24:BA:1851:U:H2'	24:BA:1852:C:C6	2.24	0.72
24:BA:1912:A:C8	24:BA:1913:A:H1'	2.24	0.72
24:BA:2213:U:C5'	24:BA:2215:G:N7	2.53	0.72
24:BA:2463:C:C2'	24:BA:2464:C:H5'	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2489:G:H2'	24:BA:2490:G:H8	1.45	0.72
24:BA:2623:G:C5'	24:BA:2826:A:H1'	2.19	0.72
24:BA:2695:C:H2'	24:BA:2696:U:C5	2.24	0.72
24:BA:586:A:N6	24:BA:1254:A:C2	2.58	0.72
24:BA:742:G:H4'	24:BA:1675:C:O2'	1.89	0.72
24:BA:811:U:C6	24:BA:811:U:O5'	2.43	0.72
27:BD:201:HIS:CD2	27:BD:202:LYS:HE2	2.24	0.72
28:BE:44:TYR:C	28:BE:45:THR:HG22	2.10	0.72
24:BA:443:A:H61	29:BF:41:LEU:CD1	2.02	0.72
30:BG:65:GLY:O	30:BG:66:GLN:HB2	1.89	0.72
31:BH:87:LEU:H	31:BH:132:ARG:HB3	1.52	0.72
32:BK:8:PRO:HD3	32:BK:35:LEU:O	1.90	0.72
35:BN:24:VAL:HG23	35:BN:26:LYS:HG2	1.71	0.72
36:BO:51:PHE:O	36:BO:55:ARG:HG3	1.89	0.72
36:BO:79:ARG:O	36:BO:83:VAL:HG13	1.88	0.72
36:BO:91:PHE:H	36:BO:125:VAL:CG1	2.01	0.72
37:BP:16:ARG:HG3	37:BP:72:LYS:HB3	1.72	0.72
38:BQ:83:ILE:HG23	38:BQ:86:ARG:NE	2.05	0.72
39:BR:75:GLU:O	39:BR:78:LEU:HB3	1.89	0.72
25:BB:49:C:OP1	39:BR:97:ARG:N	2.22	0.72
41:BT:74:LEU:HD22	41:BT:78:THR:CG2	2.19	0.72
44:BW:44:GLU:CG	44:BW:51:VAL:HG23	2.14	0.72
46:BY:15:PRO:HB3	46:BY:25:PRO:HB3	1.70	0.72
32:BK:69:LYS:CG	32:BK:70:LYS:N	2.51	0.72
3:AD:56:C:H3'	3:AD:57:G:C8	2.25	0.72
39:BR:33:LYS:HG2	39:BR:54:LEU:HD21	1.72	0.72
1:AA:1125:U:H5	12:AM:5:ARG:HH22	1.35	0.72
1:AA:272:C:H2'	1:AA:273:A:C8	2.23	0.72
1:AA:890:G:H2'	1:AA:906:G:O6	1.90	0.72
1:AA:973:G:N2	1:AA:974:A:C6	2.58	0.72
4:AE:184:VAL:H	4:AE:198:ASP:CG	1.92	0.72
4:AE:184:VAL:C	4:AE:198:ASP:HB2	2.09	0.72
5:AF:47:LEU:CD1	5:AF:83:ARG:HH21	2.01	0.72
6:AG:20:TYR:HA	6:AG:33:MET:SD	2.30	0.72
11:AL:111:ARG:O	11:AL:119:ALA:HB2	1.90	0.72
9:AJ:153:HIS:HE1	13:AN:58:PRO:HD2	1.53	0.72
15:AP:29:ARG:NH1	15:AP:66:LEU:HB3	2.05	0.72
18:AS:33:ILE:O	18:AS:34:GLU:HB2	1.89	0.72
20:AU:63:GLN:OE1	20:AU:66:LEU:HD21	1.90	0.72
24:BA:126:A:H5'	53:B6:47:ARG:HH12	1.54	0.72
24:BA:1083:U:O2	24:BA:1083:U:H2'	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1803:A:H2'	24:BA:1804:C:C6	2.24	0.72
24:BA:2031:A:N6	24:BA:2498:C:N1	2.37	0.72
24:BA:2033:A:C6	24:BA:2036:C:C4	2.77	0.72
24:BA:2415:G:H5''	36:BO:61:ARG:CD	2.19	0.72
24:BA:1028:A:C2	24:BA:2486:G:O2'	2.43	0.72
24:BA:2619:C:H4'	28:BE:152:LYS:CA	2.06	0.72
24:BA:2742:C:H5''	55:B8:35:ARG:CZ	2.19	0.72
24:BA:2841:C:C2	24:BA:2842:G:N7	2.57	0.72
24:BA:2811:G:C6	24:BA:2891:G:N2	2.57	0.72
24:BA:293:U:C6	24:BA:293:U:H3'	2.25	0.72
24:BA:443:A:N3	24:BA:1201:C:H1'	2.05	0.72
24:BA:739:G:H2'	24:BA:1784:A:H61	1.55	0.72
24:BA:815:C:H2'	24:BA:816:C:H5'	1.70	0.72
24:BA:823:G:H2'	24:BA:823:G:N3	2.04	0.72
24:BA:974:G:O4'	24:BA:1187:G:H1'	1.90	0.72
27:BD:91:ARG:NH1	27:BD:198:ASN:HB2	2.03	0.72
27:BD:214:TRP:CZ2	27:BD:219:PRO:HB3	2.25	0.72
27:BD:270:ILE:HG22	27:BD:271:ILE:O	1.90	0.72
27:BD:63:ARG:HH11	27:BD:87:ASN:HD21	1.35	0.72
29:BF:74:ARG:NH1	29:BF:76:GLY:N	2.38	0.72
29:BF:45:ARG:HG2	29:BF:97:TYR:CD1	2.25	0.72
24:BA:2306:C:C2	30:BG:46:ALA:HB2	2.24	0.72
31:BH:118:PRO:HD2	31:BH:121:ILE:CD1	2.17	0.72
31:BH:29:PRO:HD3	31:BH:79:VAL:C	2.09	0.72
32:BK:31:LEU:CD1	32:BK:36:ALA:HB3	2.19	0.72
34:BM:67:LEU:H	34:BM:87:LEU:HD22	1.55	0.72
34:BM:85:ILE:N	34:BM:85:ILE:HD12	2.03	0.72
24:BA:2780:G:H22	34:BM:97:ARG:HH12	0.75	0.72
35:BN:3:GLN:HG2	35:BN:6:THR:CB	2.16	0.72
24:BA:663:G:H4'	36:BO:18:ARG:HE	1.55	0.72
38:BQ:20:LEU:HD11	38:BQ:24:GLN:OE1	1.89	0.72
38:BQ:64:ARG:HG2	38:BQ:65:LEU:N	2.02	0.72
38:BQ:97:VAL:CA	38:BQ:114:VAL:HG13	2.20	0.72
40:BS:2:ASN:OD1	40:BS:3:ARG:HG3	1.88	0.72
40:BS:64:ARG:NE	40:BS:77:PRO:HB2	2.03	0.72
41:BT:74:LEU:CD1	41:BT:78:THR:HG21	2.19	0.72
42:BU:40:LEU:CD2	42:BU:51:VAL:HG12	2.18	0.72
42:BU:16:PRO:HA	42:BU:98:GLU:HB2	1.71	0.72
43:BV:58:ALA:O	43:BV:63:ASP:N	2.18	0.72
44:BW:15:GLU:HB3	44:BW:16:LYS:HE2	1.71	0.72
46:BY:141:VAL:CG1	46:BY:142:SER:N	2.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:24:LEU:CD1	46:BY:83:PRO:HD2	2.19	0.72
9:AJ:132:GLY:O	9:AJ:136:LYS:HB3	1.90	0.72
1:AA:1416:G:H2'	1:AA:1417:G:H8	1.55	0.72
1:AA:411:A:C4	1:AA:413:G:H1'	2.25	0.72
1:AA:474:G:H5'	18:AS:81:ARG:NE	2.04	0.72
1:AA:674:G:H2'	1:AA:675:A:H8	1.54	0.72
1:AA:576:G:N7	1:AA:881:G:C1'	2.52	0.72
1:AA:989:C:C2'	1:AA:990:C:H5'	2.20	0.72
6:AG:106:TYR:HD2	6:AG:114:ARG:HG2	1.54	0.72
6:AG:101:LEU:HB2	6:AG:138:TYR:O	1.89	0.72
6:AG:169:LYS:HG2	6:AG:176:LEU:HD21	1.72	0.72
6:AG:61:LYS:CG	6:AG:203:VAL:HG13	2.19	0.72
10:AK:11:THR:HA	10:AK:14:ARG:CZ	2.20	0.72
10:AK:40:ALA:O	10:AK:43:GLY:N	2.22	0.72
1:AA:1250:A:H4'	11:AL:67:GLY:C	2.10	0.72
13:AN:25:TYR:HD1	13:AN:89:ALA:HB2	1.54	0.72
14:AO:25:PRO:C	14:AO:27:LEU:N	2.42	0.72
15:AP:16:ASP:CA	15:AP:19:LEU:HG	2.20	0.72
19:AT:7:THR:O	19:AT:23:VAL:HG23	1.90	0.72
21:AV:80:TYR:CZ	21:AV:81:ARG:HG3	2.25	0.72
22:AW:44:ALA:HA	22:AW:92:LEU:HD21	1.72	0.72
24:BA:1071:G:C2'	24:BA:1072:C:C5'	2.67	0.72
24:BA:1265:A:C8	24:BA:1267:U:O4	2.43	0.72
24:BA:1273:U:H4'	24:BA:1275:A:P	2.30	0.72
24:BA:1301:A:N6	24:BA:1303:G:N3	2.38	0.72
24:BA:1313:U:O2'	24:BA:1314:C:H5'	1.89	0.72
24:BA:1565:C:N3	24:BA:1567:A:C1'	2.53	0.72
24:BA:1918:A:C8	24:BA:1919:A:N6	2.58	0.72
24:BA:196:A:H3'	24:BA:197:A:H5''	1.72	0.72
24:BA:1992:G:C1'	24:BA:1993:U:O4	2.38	0.72
24:BA:1266:G:N2	24:BA:2012:G:H2'	2.04	0.72
24:BA:2323:G:O2'	24:BA:2324:C:H5'	1.90	0.72
24:BA:2423:U:O2	24:BA:2423:U:H2'	1.88	0.72
24:BA:2476:A:C8	24:BA:2477:C:C5	2.78	0.72
24:BA:2547:U:H2'	24:BA:2548:G:H5''	1.71	0.72
24:BA:2732:G:H3'	24:BA:2733:A:C5'	2.19	0.72
24:BA:2839:G:H2'	24:BA:2840:C:H6	1.54	0.72
24:BA:464:U:O2'	53:B6:12:ARG:NH2	2.23	0.72
24:BA:718:A:H5''	24:BA:719:C:C6	2.25	0.72
24:BA:760:G:C2'	24:BA:761:A:H5'	2.20	0.72
24:BA:945:A:H2'	24:BA:945:A:N3	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:5:LYS:HD2	27:BD:113:VAL:HG21	1.70	0.72
27:BD:206:LEU:HD13	27:BD:206:LEU:H	1.54	0.72
27:BD:63:ARG:NH1	27:BD:63:ARG:HB2	2.04	0.72
28:BE:154:LYS:NZ	28:BE:155:LYS:O	2.20	0.72
28:BE:4:ILE:O	28:BE:4:ILE:HG13	1.90	0.72
29:BF:157:VAL:HG22	29:BF:194:MET:CB	2.19	0.72
31:BH:126:PRO:CG	31:BH:132:ARG:HH22	2.03	0.72
33:BL:104:VAL:HG13	33:BL:127:ILE:HB	1.69	0.72
34:BM:123:TYR:CD2	34:BM:129:PRO:HB2	2.24	0.72
34:BM:26:LEU:O	34:BM:26:LEU:HD12	1.90	0.72
34:BM:27:ALA:CA	34:BM:30:ILE:HD12	2.16	0.72
34:BM:36:GLY:HA2	34:BM:47:ALA:O	1.89	0.72
34:BM:16:ILE:HB	34:BM:54:VAL:CG2	2.19	0.72
35:BN:16:ALA:C	35:BN:18:LYS:H	1.91	0.72
35:BN:43:VAL:HG11	35:BN:54:GLU:OE1	1.89	0.72
37:BP:48:GLU:C	37:BP:51:ARG:HG3	2.09	0.72
37:BP:74:TYR:O	37:BP:91:GLU:HG2	1.90	0.72
37:BP:75:THR:HG23	37:BP:91:GLU:CD	2.09	0.72
38:BQ:26:LYS:HA	38:BQ:29:LEU:HD12	1.72	0.72
38:BQ:5:LYS:HE2	38:BQ:5:LYS:HA	1.69	0.72
39:BR:74:ALA:HB1	39:BR:108:GLY:H	1.51	0.72
39:BR:62:LYS:HB2	39:BR:65:VAL:HG13	1.69	0.72
41:BT:65:ILE:O	41:BT:66:ASN:C	2.28	0.72
24:BA:997:G:OP1	41:BT:92:ARG:HD2	1.90	0.72
46:BY:9:TYR:HB3	46:BY:14:LYS:NZ	2.04	0.72
24:BA:2176:A:H4'	26:BC:221:SER:HB2	1.71	0.72
26:BC:100:ILE:HG23	26:BC:127:LEU:CG	2.15	0.72
26:BC:26:ALA:HB2	26:BC:185:LEU:HB2	1.72	0.72
6:AG:156:GLU:O	6:AG:159:ARG:HB3	1.90	0.72
1:AA:1036:G:C8	1:AA:1037:C:C5	2.78	0.72
1:AA:1345:U:C2	1:AA:1377:A:N6	2.57	0.72
1:AA:1358:U:OP2	1:AA:1359:C:H5	1.73	0.72
1:AA:309:G:O2'	1:AA:310:G:C5'	2.37	0.72
1:AA:468:A:C4'	18:AS:82:GLN:HB3	2.18	0.72
1:AA:708:C:H4'	13:AN:37:GLY:HA3	1.71	0.72
1:AA:927:G:O5'	1:AA:1503:A:N6	2.23	0.72
4:AE:189:ASP:HB2	4:AE:205:ASP:HB3	1.69	0.72
6:AG:70:ILE:HD12	6:AG:100:ARG:NH2	2.04	0.72
6:AG:15:GLU:HG2	6:AG:63:LYS:CB	2.20	0.72
7:AH:102:ALA:HB1	7:AH:106:PRO:HB2	1.69	0.72
8:AI:49:ALA:HB1	20:AU:80:PRO:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:54:THR:OG1	9:AJ:56:GLN:HG2	1.90	0.72
13:AN:51:LYS:HD3	13:AN:52:GLY:H	1.55	0.72
14:AO:84:LEU:HG	14:AO:85:ILE:N	2.04	0.72
51:B4:10:LYS:O	51:B4:12:SER:N	2.23	0.72
24:BA:2284:C:O5'	52:B5:9:LEU:HG	1.90	0.72
24:BA:1060:U:H5''	24:BA:1061:U:C4	2.24	0.72
24:BA:1107:G:H2'	24:BA:1108:U:H5'	1.72	0.72
24:BA:1359:A:C2'	24:BA:1360:A:H5'	2.18	0.72
24:BA:1365:A:N7	24:BA:1366:A:N7	2.37	0.72
24:BA:1372:U:H2'	24:BA:1373:A:H5'	1.70	0.72
24:BA:2283:C:C2	24:BA:2389:G:N2	2.57	0.72
3:AB:53:G:C4'	24:BA:2470:G:H5''	2.20	0.72
24:BA:2467:C:N3	24:BA:2483:C:N4	2.37	0.72
24:BA:270(J):G:H3'	24:BA:270(K):C:C6	2.24	0.72
24:BA:2882:A:H2'	24:BA:2883:A:O5'	1.89	0.72
24:BA:703:U:H3'	24:BA:704:G:H8	1.55	0.72
24:BA:724:U:C2'	24:BA:725:G:H5'	2.20	0.72
24:BA:834:C:H1'	24:BA:2358:G:C2	2.25	0.72
24:BA:852:G:O2'	24:BA:853:G:H5'	1.90	0.72
24:BA:957:A:N7	24:BA:959:A:N7	2.38	0.72
25:BB:29:A:H2'	25:BB:30:C:H6	1.52	0.72
27:BD:186:HIS:HB2	27:BD:188:GLU:OE2	1.90	0.72
28:BE:77:ILE:O	28:BE:78:LEU:HD13	1.88	0.72
29:BF:11:VAL:HG23	29:BF:17:ARG:HH22	1.52	0.72
33:BL:111:LYS:C	33:BL:113:PRO:HD2	2.10	0.72
34:BM:37:LYS:HD2	34:BM:42:TRP:C	2.09	0.72
35:BN:59:LYS:HA	35:BN:86:ILE:CD1	2.15	0.72
24:BA:598:G:O4'	36:BO:13:ASN:ND2	2.22	0.72
24:BA:662:G:O2'	36:BO:18:ARG:HB2	1.90	0.72
36:BO:46:LYS:CB	36:BO:49:ARG:CZ	2.68	0.72
37:BP:42:ILE:HD13	37:BP:42:ILE:C	2.09	0.72
38:BQ:44:LEU:HD11	38:BQ:48:VAL:HG21	1.72	0.72
39:BR:53:SER:O	39:BR:55:ALA:N	2.23	0.72
40:BS:11:GLU:OE2	40:BS:11:GLU:N	2.22	0.72
24:BA:2875:C:H4'	40:BS:3:ARG:HB2	1.71	0.72
40:BS:64:ARG:CZ	40:BS:77:PRO:HB2	2.19	0.72
44:BW:63:LYS:H	44:BW:72:LYS:CG	2.03	0.72
32:BK:100:ALA:O	32:BK:104:GLN:HB2	1.89	0.72
32:BK:138:ILE:HG13	32:BK:140:LEU:HD11	1.70	0.72
26:BC:68:LEU:HD22	26:BC:157:LYS:HA	1.71	0.72
1:AA:1172:C:O2'	1:AA:1173:G:H5'	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1293:G:H2'	1:AA:1294:G:C8	2.22	0.72
1:AA:299:G:H2'	1:AA:300:A:C8	2.24	0.72
1:AA:310:G:H2'	1:AA:311:C:H6	1.54	0.72
1:AA:524:G:O2'	1:AA:525:C:H5'	1.90	0.72
3:AC:74:C:O3'	24:BA:2602:A:OP1	2.08	0.72
4:AE:111:ARG:HH11	4:AE:111:ARG:CA	2.01	0.72
6:AG:127:THR:O	6:AG:146:ILE:HG22	1.90	0.72
8:AI:33:TYR:HE2	8:AI:74:ASP:CB	2.03	0.72
9:AJ:106:GLN:O	9:AJ:109:ASN:HB2	1.89	0.72
15:AP:3:ARG:HG3	15:AP:7:VAL:HG12	1.70	0.72
21:AV:42:PRO:O	21:AV:45:VAL:HG23	1.89	0.72
22:AW:100:ILE:O	22:AW:102:GLY:N	2.20	0.72
50:B3:5:ILE:O	50:B3:6:HIS:HB2	1.90	0.72
24:BA:1620:G:O4'	53:B6:1:MET:N	2.22	0.72
24:BA:1014:U:C2'	24:BA:1015:G:H5'	2.20	0.72
24:BA:1372:U:H2'	24:BA:1373:A:C5'	2.19	0.72
24:BA:1703:G:H21	24:BA:1704:G:H1'	1.55	0.72
24:BA:1915:U:OP2	24:BA:1915:U:H3'	1.90	0.72
24:BA:2395:C:C4	24:BA:2396:G:N7	2.57	0.72
24:BA:2423:U:H1'	24:BA:2425:A:C4	2.25	0.72
24:BA:675:A:H1'	24:BA:2443:C:O2'	1.90	0.72
24:BA:2711:A:OP2	24:BA:2712(A):A:OP2	2.07	0.72
24:BA:567:A:N1	24:BA:568:U:O2	2.23	0.72
24:BA:660:G:H5''	29:BF:99:TYR:CZ	2.25	0.72
24:BA:696:G:O2'	24:BA:697:C:H5'	1.90	0.72
24:BA:807:U:C2'	24:BA:808:G:H5'	2.20	0.72
24:BA:83:G:O6	24:BA:102:G:N3	2.22	0.72
24:BA:956:G:P	37:BP:87:LYS:HZ2	2.13	0.72
27:BD:37:LEU:HD11	27:BD:64:ILE:N	2.03	0.72
29:BF:200:GLU:OE1	29:BF:201:VAL:N	2.22	0.72
24:BA:558:G:H5'	34:BM:112:LEU:HD12	1.71	0.72
36:BO:36:LYS:NZ	36:BO:42:SER:OG	2.21	0.72
37:BP:77:LYS:CB	37:BP:78:PRO:CD	2.68	0.72
39:BR:24:LEU:H	39:BR:86:ALA:CB	2.03	0.72
46:BY:103:ARG:NE	46:BY:103:ARG:HA	2.05	0.72
46:BY:100:VAL:O	46:BY:124:ILE:HG23	1.90	0.72
46:BY:157:LEU:CD1	46:BY:161:VAL:HG13	2.20	0.72
3:AD:14:A:H2'	3:AD:14:A:N3	2.05	0.72
26:BC:197:GLU:O	26:BC:200:LYS:HB3	1.90	0.72
26:BC:78:ALA:O	26:BC:119:VAL:HG11	1.89	0.72
24:BA:273(C):C:H2'	24:BA:273(D):C:C6	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:38:U:H6	2:A1:38:U:OP2	1.73	0.71
1:AA:1116:C:H2'	1:AA:1117:G:H8	1.54	0.71
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.55	0.71
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.55	0.71
1:AA:1484:C:O2'	1:AA:1485:U:H5'	1.90	0.71
1:AA:359:U:H2'	1:AA:360:A:H8	1.54	0.71
1:AA:713:G:N2	1:AA:777:A:C1'	2.51	0.71
1:AA:95:G:C2	1:AA:96:G:H1'	2.25	0.71
1:AA:961:U:H1'	1:AA:1201:A:N6	2.04	0.71
3:AC:24:G:H2'	3:AC:25:C:C6	2.25	0.71
3:AC:74:C:H5''	24:BA:2602:A:H3'	1.70	0.71
3:AD:37:A:H61	9:AJ:79:ARG:HH22	1.37	0.71
4:AE:9:GLU:HG2	4:AE:10:LEU:H	1.55	0.71
4:AE:134:GLU:HA	4:AE:134:GLU:OE1	1.89	0.71
4:AE:223:ILE:HG22	4:AE:229:VAL:HA	1.70	0.71
5:AF:22:TRP:CZ3	5:AF:32:LEU:HB3	2.25	0.71
6:AG:52:SER:C	6:AG:54:TYR:N	2.40	0.71
10:AK:27:PRO:O	10:AK:32:LYS:HD3	1.90	0.71
10:AK:40:ALA:HB2	10:AK:45:ILE:HG12	1.72	0.71
10:AK:78:GLN:HG3	10:AK:80:ILE:O	1.89	0.71
15:AP:29:ARG:CZ	15:AP:64:TRP:HE1	2.03	0.71
15:AP:74:VAL:O	15:AP:78:ILE:HG13	1.90	0.71
1:AA:657:G:N2	17:AR:22:THR:O	2.21	0.71
17:AR:54:ARG:HA	17:AR:57:LEU:CD2	2.17	0.71
18:AS:6:LEU:O	18:AS:6:LEU:HD22	1.90	0.71
20:AU:18:ARG:NH2	20:AU:21:LYS:HD3	2.05	0.71
1:AA:192:U:C1'	22:AW:103:GLY:HA2	2.20	0.71
50:B3:23:GLU:HA	50:B3:27:THR:O	1.90	0.71
24:BA:1087:G:H21	24:BA:1103:A:H2'	1.54	0.71
24:BA:1314:C:C2	24:BA:1315:C:C5	2.78	0.71
24:BA:1670:C:OP2	24:BA:1671:U:C5	2.43	0.71
24:BA:1807:G:H21	24:BA:1809:A:H5'	1.55	0.71
24:BA:1934:C:C4'	24:BA:1974:C:H4'	2.19	0.71
24:BA:2498:C:C2'	24:BA:2499:C:H5''	2.20	0.71
24:BA:1955:U:H3	24:BA:2552:U:HO2'	1.35	0.71
24:BA:261:G:O2'	24:BA:609:A:H4'	1.89	0.71
24:BA:2636:U:OP1	28:BE:79:ARG:N	2.20	0.71
24:BA:299:A:N1	24:BA:322:A:H2'	2.04	0.71
24:BA:603:A:H2'	24:BA:604:G:H8	1.54	0.71
24:BA:623:G:C8	36:BO:105:LEU:HB2	2.24	0.71
24:BA:825:C:O2'	24:BA:826:U:H5'	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:43:C:O2	30:BG:95:ARG:NE	2.23	0.71
27:BD:250:TRP:HA	27:BD:250:TRP:CE3	2.25	0.71
28:BE:172:VAL:HA	28:BE:184:VAL:HG12	1.72	0.71
28:BE:11:MET:O	28:BE:22:PRO:CD	2.38	0.71
29:BF:150:GLY:O	29:BF:152:GLU:N	2.22	0.71
29:BF:36:VAL:HG11	29:BF:183:VAL:HG11	1.72	0.71
29:BF:37:VAL:HA	29:BF:184:TYR:CZ	2.25	0.71
31:BH:98:LEU:H	31:BH:125:VAL:HG21	1.53	0.71
31:BH:94:TYR:HE2	31:BH:96:ALA:HB2	1.55	0.71
33:BL:37:PHE:CB	33:BL:57:ILE:HD12	2.18	0.71
35:BN:8:LEU:HD11	35:BN:82:ASN:HA	1.70	0.71
36:BO:77:ARG:O	36:BO:81:GLN:HG3	1.90	0.71
37:BP:77:LYS:CB	37:BP:78:PRO:HD3	2.20	0.71
40:BS:26:ASP:HA	40:BS:100:TYR:CE2	2.24	0.71
28:BE:8:LYS:HG2	40:BS:6:LEU:HD11	1.70	0.71
40:BS:79:HIS:N	40:BS:79:HIS:ND1	2.33	0.71
41:BT:44:ASN:C	41:BT:47:TYR:HB2	2.10	0.71
43:BV:72:LYS:HB3	43:BV:108:GLY:HA3	1.72	0.71
45:BX:72:VAL:HG11	45:BX:96:ILE:HG21	1.71	0.71
46:BY:144:LEU:HB3	46:BY:174:VAL:CG1	2.14	0.71
24:BA:2168:G:H2'	24:BA:2170:A:OP2	1.89	0.71
26:BC:116:THR:O	26:BC:120:MET:HG2	1.89	0.71
52:B5:54:ILE:HD13	52:B5:54:ILE:O	1.89	0.71
1:AA:1142:G:O2'	1:AA:1143:G:H5'	1.90	0.71
1:AA:1200:C:H3'	1:AA:1201:A:C5'	2.19	0.71
1:AA:1200:C:H5''	1:AA:1201:A:O3'	1.90	0.71
1:AA:1277:C:C4'	1:AA:1282:C:H1'	2.17	0.71
1:AA:968:A:H4'	1:AA:969:A:OP2	1.89	0.71
4:AE:132:LYS:O	4:AE:135:GLN:HB2	1.90	0.71
4:AE:16:HIS:HA	4:AE:204:ASN:CB	2.21	0.71
5:AF:159:GLY:H	5:AF:193:TYR:HE1	1.35	0.71
5:AF:29:TYR:O	5:AF:32:LEU:HB2	1.89	0.71
6:AG:19:LEU:H	6:AG:33:MET:CE	2.01	0.71
9:AJ:150:ALA:HA	13:AN:59:TYR:CG	2.25	0.71
10:AK:64:LYS:CG	10:AK:79:VAL:HG21	2.19	0.71
13:AN:58:PRO:CB	13:AN:90:GLY:HA3	2.20	0.71
13:AN:95:ILE:O	13:AN:98:LEU:HB2	1.89	0.71
14:AO:101:VAL:HG23	14:AO:104:VAL:HG21	1.72	0.71
14:AO:46:LYS:HE3	14:AO:47:LYS:NZ	2.04	0.71
14:AO:27:LEU:HB2	14:AO:64:TYR:OH	1.90	0.71
16:AQ:26:ARG:HE	16:AQ:43:CYS:CA	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:30:LEU:HG	21:AV:50:ALA:N	2.04	0.71
24:BA:1543:A:H5''	24:BA:1544:C:OP2	1.90	0.71
24:BA:17:G:H4'	41:BT:25:TRP:CH2	2.25	0.71
24:BA:1815:A:H1'	24:BA:1817:G:C5	2.26	0.71
24:BA:1839:G:C8	24:BA:1927:A:O4'	2.43	0.71
24:BA:2017:U:C2'	24:BA:2018:G:OP1	2.37	0.71
24:BA:2019:A:C3'	24:BA:2020:A:H5''	2.18	0.71
24:BA:2208:U:H2'	24:BA:2209:C:H5'	1.72	0.71
24:BA:2360:A:H2'	24:BA:2361:A:O4'	1.89	0.71
3:AD:76:A:N3	24:BA:2432:A:O4'	2.23	0.71
24:BA:2559:C:O2'	24:BA:2560:C:H5'	1.89	0.71
24:BA:2740:A:H2'	24:BA:2741:A:H8	1.53	0.71
27:BD:39:LYS:HA	27:BD:62:TYR:CB	2.20	0.71
28:BE:91:VAL:HG22	28:BE:93:VAL:N	2.06	0.71
30:BG:57:ALA:HA	30:BG:67:LYS:C	2.08	0.71
30:BG:59:GLU:CD	30:BG:152:LEU:HD22	2.09	0.71
30:BG:5:VAL:CG1	30:BG:9:ARG:HH22	2.02	0.71
31:BH:103:LEU:O	31:BH:105:LEU:HG	1.90	0.71
31:BH:107:VAL:HG13	31:BH:152:ARG:HE	1.54	0.71
31:BH:149:ARG:HA	31:BH:162:ILE:HD13	1.72	0.71
31:BH:7:LEU:HD22	31:BH:65:HIS:CD2	2.25	0.71
33:BL:108:ALA:HB1	33:BL:123:ALA:CB	2.20	0.71
35:BN:8:LEU:CD1	35:BN:82:ASN:HA	2.20	0.71
36:BO:84:ASN:O	36:BO:85:LEU:HG	1.90	0.71
36:BO:99:LEU:HD22	36:BO:101:VAL:HG22	1.72	0.71
37:BP:89:ASN:HD22	37:BP:89:ASN:N	1.86	0.71
39:BR:58:LEU:O	39:BR:65:VAL:HG12	1.90	0.71
40:BS:29:ARG:CG	40:BS:51:ARG:HG2	2.18	0.71
40:BS:51:ARG:NH1	40:BS:114:LEU:HD13	2.05	0.71
45:BX:46:LYS:CG	45:BX:58:GLY:H	2.03	0.71
45:BX:84:ARG:HG2	45:BX:86:ARG:H	1.55	0.71
46:BY:105:VAL:N	46:BY:140:ASP:OD1	2.22	0.71
46:BY:161:VAL:HG12	46:BY:162:GLU:N	2.03	0.71
46:BY:57:ILE:HG23	46:BY:58:VAL:H	1.55	0.71
24:BA:2160:G:H2'	24:BA:2161:C:C6	2.25	0.71
26:BC:100:ILE:HD11	26:BC:123:VAL:CG2	2.20	0.71
1:AA:160:A:H2'	1:AA:161:A:O4'	1.90	0.71
1:AA:1063:C:H5''	1:AA:1064:G:OP2	1.91	0.71
1:AA:1192:C:C6	1:AA:1192:C:C3'	2.69	0.71
1:AA:1318:A:H4'	21:AV:10:PHE:HD2	1.55	0.71
1:AA:1333:A:O2'	1:AA:1334:G:H5'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:769:G:H5'	1:AA:1513:A:H4'	1.71	0.71
1:AA:323:U:H5	1:AA:324:G:C4	2.09	0.71
1:AA:34:C:H2'	1:AA:35:G:H8	1.55	0.71
1:AA:112:G:C5'	1:AA:389:A:H4'	2.16	0.71
1:AA:517:G:HO2'	1:AA:530:G:H4'	1.54	0.71
1:AA:578:C:O2'	1:AA:728:A:N3	2.22	0.71
4:AE:187:LEU:C	4:AE:187:LEU:HD13	2.10	0.71
4:AE:208:ILE:CG1	4:AE:211:ILE:HD12	2.19	0.71
4:AE:23:ARG:NH1	4:AE:24:TRP:N	2.37	0.71
5:AF:146:ALA:O	5:AF:147:LYS:HD2	1.91	0.71
5:AF:201:TYR:CD1	5:AF:201:TYR:N	2.55	0.71
5:AF:28:GLN:HA	5:AF:30:ARG:CZ	2.21	0.71
6:AG:13:ARG:HH11	6:AG:36:ARG:HB2	1.56	0.71
10:AK:129:VAL:HG22	10:AK:130:GLY:N	2.04	0.71
13:AN:122:LYS:C	13:AN:126:ARG:HG3	2.10	0.71
14:AO:36:VAL:C	14:AO:58:VAL:HG13	2.09	0.71
14:AO:61:THR:O	14:AO:62:SER:OG	2.09	0.71
14:AO:68:ALA:HB1	14:AO:98:TYR:O	1.90	0.71
15:AP:108:ARG:NH2	15:AP:111:LYS:HD3	2.05	0.71
15:AP:81:LEU:HD22	15:AP:82:MET:N	2.05	0.71
17:AR:75:PRO:HA	17:AR:78:TYR:CB	2.18	0.71
1:AA:266:G:C3'	19:AT:67:LYS:HD2	2.13	0.71
20:AU:36:ASN:HB3	20:AU:40:LEU:CG	2.20	0.71
20:AU:40:LEU:O	20:AU:43:PHE:HD1	1.73	0.71
21:AV:15:LEU:HD21	21:AV:38:SER:HB2	1.71	0.71
21:AV:58:VAL:HG23	21:AV:60:VAL:HG23	1.72	0.71
24:BA:2371:G:C5'	52:B5:45:LYS:HB3	2.19	0.71
24:BA:1263:U:N3	24:BA:1264:G:N2	2.39	0.71
24:BA:1353:A:H2'	24:BA:1354:A:H8	1.52	0.71
24:BA:1438:U:H3	24:BA:1553:A:N6	1.88	0.71
24:BA:1839:G:H2'	24:BA:1839:G:N3	2.03	0.71
24:BA:2299:G:O2'	24:BA:2300:G:H5'	1.90	0.71
24:BA:265:A:H2'	24:BA:266:G:O4'	1.89	0.71
24:BA:2721:A:H2'	24:BA:2722:G:H8	1.55	0.71
24:BA:2847:U:C5	24:BA:2848:G:N7	2.58	0.71
24:BA:287:C:H2'	24:BA:288:C:H5	1.51	0.71
24:BA:2900:A:H2'	24:BA:2901:C:H6	1.53	0.71
24:BA:510:C:O5'	24:BA:512:G:N1	2.24	0.71
24:BA:559:G:C2'	24:BA:560:C:C6	2.66	0.71
24:BA:617:G:C8	24:BA:618:G:N7	2.58	0.71
24:BA:774:A:O2'	24:BA:775:G:C8	2.43	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:30:C:H1'	25:BB:58:A:C2	2.26	0.71
24:BA:1788:C:O2	27:BD:222:ARG:NH2	2.23	0.71
28:BE:119:ARG:NH2	28:BE:155:LYS:HD2	2.06	0.71
29:BF:181:LEU:N	29:BF:181:LEU:HD13	2.05	0.71
35:BN:101:PRO:HD3	35:BN:119:PRO:O	1.90	0.71
24:BA:1242:A:N1	36:BO:6:LEU:HD11	2.04	0.71
36:BO:7:ARG:HD2	36:BO:8:PRO:HD3	1.70	0.71
37:BP:34:LEU:HB2	37:BP:67:ARG:NH2	2.03	0.71
37:BP:78:PRO:HB3	37:BP:81:VAL:CG2	2.18	0.71
24:BA:2250:G:N7	37:BP:83:MET:O	2.23	0.71
38:BQ:97:VAL:HA	38:BQ:114:VAL:CG1	2.20	0.71
40:BS:27:THR:HG22	40:BS:28:VAL:H	1.55	0.71
43:BV:27:LYS:HB3	43:BV:31:GLU:CD	2.10	0.71
45:BX:81:LYS:HD3	45:BX:96:ILE:HG13	1.70	0.71
45:BX:86:ARG:O	45:BX:91:GLU:HG2	1.90	0.71
24:BA:2162:G:C2'	24:BA:2163:C:H5'	2.19	0.71
1:AA:1084:G:H2'	1:AA:1085:U:C6	2.25	0.71
1:AA:1231:G:H5'	15:AP:126:LYS:HZ3	1.55	0.71
1:AA:1224:G:H1	1:AA:1362(A):C:H42	1.38	0.71
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.25	0.71
1:AA:1488:G:O2'	1:AA:1489:G:H5'	1.89	0.71
1:AA:193:C:H2'	1:AA:194:C:C6	2.24	0.71
1:AA:367:U:H4'	1:AA:368:U:OP1	1.85	0.71
1:AA:519:C:OP2	14:AO:50:SER:O	2.08	0.71
3:AC:75:C:H42	24:BA:2451:A:H4'	1.52	0.71
5:AF:182:ILE:HG23	5:AF:203:PHE:HA	1.71	0.71
5:AF:42:LEU:HD12	5:AF:94:LEU:HD12	1.72	0.71
6:AG:93:PHE:O	6:AG:94:LEU:C	2.29	0.71
9:AJ:15:ASP:H	9:AJ:20:ASP:H	1.37	0.71
10:AK:112:LEU:HB2	10:AK:133:LEU:HA	1.72	0.71
10:AK:14:ARG:HD2	10:AK:15:ASN:N	2.05	0.71
10:AK:36:LEU:HD12	10:AK:48:TYR:CG	2.24	0.71
11:AL:19:LEU:HD23	11:AL:20:ARG:H	1.55	0.71
13:AN:13:GLN:HB3	13:AN:76:GLY:HA3	1.71	0.71
17:AR:36:ILE:CD1	17:AR:60:VAL:HG13	2.20	0.71
19:AT:17:LYS:HE3	19:AT:48:GLU:HA	1.71	0.71
20:AU:76:LEU:N	20:AU:76:LEU:HD22	2.05	0.71
21:AV:11:VAL:HG12	21:AV:11:VAL:O	1.89	0.71
21:AV:19:VAL:HG22	21:AV:43:GLU:OE1	1.89	0.71
21:AV:40:ILE:O	21:AV:68:GLY:HA2	1.90	0.71
22:AW:50:GLU:H	22:AW:99:LEU:CD1	1.92	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:39:LYS:HG2	54:B7:40:GLU:N	2.05	0.71
24:BA:1158:C:H4'	49:B2:32:GLN:NE2	2.02	0.71
24:BA:1270:C:O2	24:BA:1325:G:N7	2.24	0.71
24:BA:1355:G:H22	24:BA:1377:G:H1'	1.53	0.71
24:BA:1398:C:H2'	24:BA:1399:C:H6	1.56	0.71
24:BA:1554:A:O2'	24:BA:1555:G:OP1	2.09	0.71
24:BA:172:C:H2'	24:BA:173:G:H8	1.54	0.71
24:BA:1955:U:O5'	24:BA:1956:U:O4	2.08	0.71
24:BA:647:G:H4'	24:BA:2352:A:OP1	1.89	0.71
3:AB:75:C:H1'	24:BA:2555:U:O2	1.91	0.71
24:BA:2688:U:H1'	24:BA:2721:A:H61	1.56	0.71
24:BA:2779:U:H5'	24:BA:2781:A:OP2	1.91	0.71
24:BA:2780:G:C2'	24:BA:2781:A:H5''	2.21	0.71
24:BA:442:G:C4'	29:BF:46:ARG:HG3	2.20	0.71
24:BA:592:G:H1'	54:B7:1:MET:O	1.89	0.71
24:BA:5:A:O2'	24:BA:6:A:H5'	1.90	0.71
24:BA:861:A:C2'	24:BA:862:G:H5'	2.20	0.71
27:BD:63:ARG:HG3	27:BD:64:ILE:H	1.53	0.71
27:BD:8:PRO:HD2	27:BD:26:LYS:CA	2.19	0.71
28:BE:133:LYS:HZ1	28:BE:137:HIS:HB3	1.53	0.71
29:BF:156:LEU:HD12	29:BF:167:ALA:HB1	1.71	0.71
29:BF:24:LEU:H	29:BF:25:PRO:HD2	1.55	0.71
29:BF:34:TRP:CE3	29:BF:37:VAL:HG21	2.26	0.71
30:BG:37:VAL:HB	30:BG:99:MET:SD	2.30	0.71
30:BG:75:LYS:HD3	30:BG:85:GLY:N	2.05	0.71
31:BH:33:LEU:HD21	31:BH:35:VAL:HG13	1.71	0.71
31:BH:55:PRO:HG2	31:BH:61:HIS:CE1	2.26	0.71
33:BL:112:MET:SD	33:BL:118:THR:HG22	2.30	0.71
33:BL:39:LYS:HA	33:BL:42:ASN:HD22	1.53	0.71
33:BL:52:ILE:HD12	33:BL:76:TYR:CD2	2.25	0.71
35:BN:10:VAL:HG23	35:BN:83:ALA:O	1.90	0.71
36:BO:89:ALA:C	36:BO:125:VAL:HG22	2.11	0.71
37:BP:93:TYR:O	37:BP:94:VAL:HG12	1.91	0.71
37:BP:99:PRO:CG	37:BP:101:ARG:HE	2.02	0.71
42:BU:7:THR:HG23	42:BU:11:GLN:CD	2.11	0.71
42:BU:11:GLN:HB3	42:BU:21:ARG:HD2	1.70	0.71
42:BU:5:VAL:CG1	42:BU:37:VAL:HG22	2.20	0.71
46:BY:42:VAL:HB	46:BY:43:GLU:OE1	1.90	0.71
3:AD:18:G:H21	3:AD:58:A:H5''	1.55	0.71
24:BA:2114:A:H2'	24:BA:2115:G:C5'	2.19	0.71
26:BC:162:GLU:CG	26:BC:163:PHE:H	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:64:LEU:HD23	26:BC:191:ALA:CB	2.21	0.71
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.24	0.71
1:AA:1246:C:O2'	1:AA:1247:U:H5'	1.90	0.71
1:AA:1268:A:C2	1:AA:1311:G:N2	2.58	0.71
1:AA:266:G:H8	19:AT:67:LYS:NZ	1.80	0.71
1:AA:275:G:H5'	19:AT:14:LYS:HZ3	1.54	0.71
1:AA:66:G:C4'	1:AA:173:U:C4	2.73	0.71
4:AE:12:GLU:O	4:AE:14:GLY:N	2.22	0.71
4:AE:175:ARG:HA	4:AE:178:ARG:CG	2.21	0.71
7:AH:145:LYS:HA	7:AH:148:VAL:HG23	1.73	0.71
2:A1:50:U:OP2	7:AH:15:ARG:HG3	1.89	0.71
8:AI:8:ILE:HG22	8:AI:88:VAL:HA	1.70	0.71
9:AJ:72:ARG:HG3	9:AJ:73:MET:H	1.56	0.71
12:AM:31:GLY:HA3	12:AM:74:ILE:HG21	1.72	0.71
12:AM:39:PRO:O	12:AM:40:LEU:HB2	1.90	0.71
12:AM:68:HIS:HB3	12:AM:70:ARG:NH2	2.05	0.71
18:AS:57:ARG:O	18:AS:60:LEU:HB2	1.91	0.71
18:AS:72:ARG:NH2	18:AS:73:LEU:HB2	2.04	0.71
19:AT:104:LYS:HD3	19:AT:105:ALA:N	2.06	0.71
49:B2:16:PRO:HG2	49:B2:19:GLN:HB3	1.73	0.71
50:B3:29:PRO:HG2	50:B3:31:ILE:CG2	2.20	0.71
24:BA:2286:A:H1'	52:B5:37:ARG:HH21	1.55	0.71
24:BA:1223:C:C2	24:BA:1227:A:N1	2.59	0.71
24:BA:1238:G:H2'	24:BA:1239:G:O4'	1.91	0.71
24:BA:1317:A:H2'	24:BA:1318:C:H6	1.54	0.71
24:BA:1382:G:H2'	24:BA:1383:C:C6	2.25	0.71
24:BA:1807:G:H21	24:BA:1809:A:C5'	2.02	0.71
24:BA:1819:A:P	27:BD:157:ARG:HA	2.31	0.71
24:BA:2092:U:C5	24:BA:2227:A:N6	2.58	0.71
24:BA:2238:G:C2'	24:BA:2239:G:H5''	2.20	0.71
24:BA:2278:A:OP1	37:BP:14:ARG:CG	2.33	0.71
24:BA:2522:U:H5'	24:BA:2523:G:OP2	1.91	0.71
24:BA:2679:A:O2'	24:BA:2680:C:H5'	1.91	0.71
24:BA:352:G:N2	24:BA:353:G:H1'	2.05	0.71
24:BA:460:A:C2'	24:BA:461:C:H6	2.02	0.71
24:BA:514:A:C2	24:BA:515:A:N9	2.57	0.71
24:BA:64:A:H2'	24:BA:65:C:H5'	1.72	0.71
24:BA:871:U:H2'	24:BA:872:A:H8	1.56	0.71
25:BB:112:G:H5'	25:BB:113:C:OP2	1.89	0.71
27:BD:161:THR:OG1	27:BD:196:VAL:HB	1.90	0.71
27:BD:59:LYS:HD2	27:BD:59:LYS:C	2.11	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:37:VAL:HG22	30:BG:159:VAL:HG12	1.72	0.71
31:BH:94:TYR:OH	31:BH:128:PRO:HG2	1.91	0.71
31:BH:7:LEU:HB3	31:BH:65:HIS:NE2	2.05	0.71
34:BM:107:LEU:HB3	34:BM:117:PHE:CZ	2.25	0.71
34:BM:7:LYS:HD3	34:BM:39:ARG:CZ	2.21	0.71
37:BP:6:ARG:HG2	37:BP:70:PRO:HB3	1.72	0.71
39:BR:26:LEU:HD22	39:BR:27:SER:H	1.55	0.71
40:BS:31:SER:OG	40:BS:49:VAL:HG22	1.91	0.71
41:BT:30:LYS:HD2	41:BT:30:LYS:H	1.54	0.71
42:BU:36:PRO:CA	42:BU:61:VAL:HG22	2.20	0.71
42:BU:50:PRO:HB2	42:BU:53:GLU:OE1	1.90	0.71
46:BY:95:PRO:HD2	46:BY:131:ARG:HG2	1.71	0.71
3:AD:21:A:N6	3:AD:48:C:C6	2.59	0.71
2:A1:29:G:C3'	2:A1:30:U:H5''	2.19	0.71
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.55	0.71
1:AA:122:G:O2'	1:AA:123:C:H5'	1.89	0.71
1:AA:1260:C:H4'	1:AA:1284:C:H5''	1.72	0.71
1:AA:1516:G:N2	1:AA:1518:A:O5'	2.23	0.71
1:AA:1405:G:O4'	1:AA:1519:A:H4'	1.89	0.71
1:AA:192:U:H2'	1:AA:193:C:C6	2.25	0.71
1:AA:484:G:C8	1:AA:486:U:N3	2.59	0.71
1:AA:517:G:H22	1:AA:533:A:P	2.13	0.71
1:AA:397:A:C2	1:AA:548:G:O6	2.43	0.71
1:AA:646:U:O2'	1:AA:647:C:H5'	1.90	0.71
1:AA:692:U:H2'	1:AA:694:A:OP2	1.91	0.71
1:AA:575:G:N1	1:AA:821:G:C8	2.59	0.71
4:AE:21:ARG:O	4:AE:23:ARG:N	2.24	0.71
5:AF:47:LEU:O	5:AF:52:LEU:HD22	1.90	0.71
9:AJ:69:VAL:HG11	9:AJ:104:LEU:CG	2.20	0.71
9:AJ:66:VAL:HG12	9:AJ:70:LYS:HE2	1.71	0.71
10:AK:43:GLY:O	10:AK:44:PHE:HB2	1.88	0.71
10:AK:80:ILE:N	10:AK:80:ILE:HD12	2.03	0.71
13:AN:86:GLY:HA2	13:AN:112:THR:HG23	1.72	0.71
15:AP:91:ARG:HH12	15:AP:103:THR:HG21	1.55	0.71
12:AM:11:PHE:CD1	16:AQ:55:GLY:HA3	2.25	0.71
19:AT:63:ARG:HG2	19:AT:64:PRO:CD	2.20	0.71
8:AI:98:LEU:HG	20:AU:28:GLU:HG3	1.73	0.71
49:B2:11:SER:H	49:B2:12:PRO:HD3	1.53	0.71
51:B4:58:LEU:CD2	51:B4:59:GLU:H	1.94	0.71
24:BA:1024:G:C2	24:BA:1025:G:N7	2.59	0.71
24:BA:1044:G:N2	24:BA:1111:A:C4'	2.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1695:G:C2'	24:BA:1696:G:H5'	2.21	0.71
24:BA:197:A:H3'	24:BA:198:C:C6	2.24	0.71
24:BA:2014:A:O5'	24:BA:2014:A:H8	1.74	0.71
24:BA:2046:G:OP1	51:B4:18:ALA:CB	2.39	0.71
24:BA:966:G:O2'	24:BA:2267:A:N6	2.23	0.71
24:BA:2281:C:HO2'	24:BA:2282:G:C5'	2.04	0.71
24:BA:2031:A:N6	24:BA:2498:C:C2	2.59	0.71
24:BA:2517:C:O2'	24:BA:2518:A:O5'	2.08	0.71
24:BA:332:A:O2'	24:BA:334:C:OP2	2.05	0.71
24:BA:452:G:N1	24:BA:458:G:C2	2.59	0.71
24:BA:686:G:N3	24:BA:686:G:H5''	2.05	0.71
27:BD:177:LEU:HD21	27:BD:181:GLU:HB3	1.70	0.71
27:BD:251:GLY:CA	27:BD:255:LYS:HZ2	2.03	0.71
27:BD:261:LYS:O	27:BD:263:ARG:N	2.24	0.71
27:BD:54:ARG:HA	27:BD:219:PRO:CG	2.20	0.71
28:BE:49:LEU:CA	28:BE:76:ARG:O	2.38	0.71
29:BF:197:ASP:O	29:BF:200:GLU:OE1	2.08	0.71
30:BG:40:ASN:ND2	30:BG:41:GLN:H	1.89	0.71
30:BG:80:PHE:O	30:BG:83:ARG:NH2	2.23	0.71
30:BG:44:GLY:H	30:BG:88:ILE:CG2	2.03	0.71
31:BH:38:SER:N	31:BH:41:MET:HE2	2.04	0.71
34:BM:85:ILE:HB	34:BM:90:MET:HE1	1.70	0.71
35:BN:108:GLU:O	35:BN:109:LYS:HB2	1.88	0.71
35:BN:63:VAL:HG21	35:BN:82:ASN:OD1	1.89	0.71
24:BA:624:C:N4	36:BO:104:GLY:HA2	2.05	0.71
36:BO:75:ILE:CG2	36:BO:115:LEU:HD11	2.17	0.71
24:BA:389:G:H1	36:BO:64:LYS:HG2	1.54	0.71
36:BO:99:LEU:HD22	36:BO:101:VAL:HG13	1.72	0.71
37:BP:77:LYS:HB3	37:BP:78:PRO:HD3	1.71	0.71
37:BP:81:VAL:CG1	37:BP:82:ARG:H	1.87	0.71
38:BQ:105:ARG:NE	38:BQ:105:ARG:HA	2.05	0.71
41:BT:89:GLU:HG2	42:BU:52:VAL:CG2	2.06	0.71
41:BT:94:ASN:HA	41:BT:97:ASP:OD1	1.91	0.71
44:BW:16:LYS:HE2	44:BW:16:LYS:N	2.05	0.71
24:BA:1342:A:OP1	44:BW:55:ASN:HB3	1.91	0.71
26:BC:22:ILE:HD12	26:BC:190:ARG:NH2	2.05	0.71
34:BM:6:PRO:HA	34:BM:41:ASP:HB3	1.70	0.71
24:BA:1886:C:H2'	24:BA:1887:C:C6	2.24	0.71
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.89	0.71
1:AA:1043:C:H2'	1:AA:1044:A:O4'	1.91	0.71
1:AA:1443:G:O2'	1:AA:1446:A:H4'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:427:U:H6	1:AA:427:U:O5'	1.74	0.71
1:AA:453:A:N6	1:AA:480:U:H3	1.88	0.71
1:AA:51:A:C6	1:AA:353:A:C2	2.79	0.71
1:AA:563:A:H1'	1:AA:566:G:O2'	1.89	0.71
1:AA:687:A:H61	1:AA:703:G:H1'	1.54	0.71
4:AE:31:TYR:CE2	4:AE:200:ILE:CG2	2.74	0.71
4:AE:47:THR:HG22	4:AE:51:LEU:HD11	1.73	0.71
5:AF:87:LEU:HB2	5:AF:101:LEU:CD1	2.20	0.71
5:AF:50:ALA:C	5:AF:72:LYS:HD2	2.10	0.71
6:AG:107:ARG:NH1	6:AG:107:ARG:HA	2.00	0.71
7:AH:16:THR:O	7:AH:26:PHE:HB2	1.90	0.71
8:AI:52:ILE:HG22	8:AI:53:ALA:N	2.05	0.71
9:AJ:76:ARG:CB	9:AJ:156:TRP:HE1	1.93	0.71
1:AA:878:G:H5''	10:AK:89:PRO:HG2	1.73	0.71
13:AN:22:HIS:ND1	13:AN:29:ILE:HD11	2.05	0.71
13:AN:84:VAL:HG23	13:AN:111:ASP:H	1.54	0.71
15:AP:24:GLY:O	15:AP:66:LEU:HD13	1.91	0.71
15:AP:67:GLU:CG	15:AP:68:GLY:N	2.53	0.71
17:AR:63:ARG:HH22	17:AR:87:ILE:HD13	1.56	0.71
19:AT:75:ARG:HH12	19:AT:77:VAL:HG22	1.55	0.71
22:AW:57:ARG:HH21	22:AW:100:ILE:HB	1.53	0.71
24:BA:1059:G:O6	24:BA:1060:U:H1'	1.90	0.71
24:BA:1083:U:H2'	24:BA:1084:A:H5''	1.72	0.71
24:BA:1044:G:N1	24:BA:1112:G:O2'	2.22	0.71
24:BA:1609:A:N7	24:BA:1616:A:N3	2.38	0.71
24:BA:1660:C:H42	24:BA:2001:A:N6	1.87	0.71
24:BA:1665:A:C8	24:BA:2726:U:N3	2.58	0.71
24:BA:1918:A:H3'	24:BA:1919:A:N7	2.05	0.71
24:BA:2090:G:C6	24:BA:2230:G:O6	2.44	0.71
24:BA:2262:U:H4'	24:BA:2328:A:H2	1.56	0.71
24:BA:226:G:C2	24:BA:227:A:N3	2.59	0.71
24:BA:2331:G:H2'	24:BA:2332:U:O4'	1.90	0.71
24:BA:2415:G:H5''	36:BO:61:ARG:CG	2.21	0.71
24:BA:2507:C:H5''	24:BA:2573:C:N4	2.01	0.71
3:AB:74:C:N4	24:BA:2555:U:C6	2.59	0.71
24:BA:2647:U:H2'	24:BA:2648:C:H6	1.55	0.71
24:BA:371:A:H62	24:BA:424:G:C4'	2.04	0.71
24:BA:459:U:C5	24:BA:469:G:N2	2.58	0.71
24:BA:786:C:C2'	24:BA:787:U:H5'	2.20	0.71
24:BA:791:C:C4	24:BA:794:G:H1'	2.26	0.71
25:BB:114:G:O4'	39:BR:47:THR:HB	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:33:G:H2'	25:BB:34:U:H6	1.53	0.71
27:BD:7:LYS:HD3	27:BD:9:TYR:HH	1.54	0.71
28:BE:104:VAL:HG13	28:BE:198:VAL:HA	1.72	0.71
29:BF:89:VAL:CG1	29:BF:90:PHE:N	2.45	0.71
30:BG:34:LEU:HD13	30:BG:100:TRP:HE1	1.56	0.71
30:BG:118:ARG:CG	30:BG:119:GLY:N	2.54	0.71
30:BG:148:MET:HB3	30:BG:151:ALA:HB2	1.72	0.71
30:BG:148:MET:HG2	30:BG:151:ALA:N	2.06	0.71
30:BG:162:THR:C	30:BG:164:GLU:H	1.93	0.71
30:BG:9:ARG:HG2	30:BG:13:GLU:OE2	1.90	0.71
31:BH:76:VAL:HA	31:BH:79:VAL:HG22	1.73	0.71
33:BL:10:LEU:CD1	33:BL:23:VAL:HG22	2.21	0.71
24:BA:1059:G:O2'	33:BL:74:ALA:HB2	1.89	0.71
34:BM:112:LEU:O	34:BM:113:GLY:C	2.29	0.71
35:BN:67:LYS:CA	35:BN:67:LYS:HE2	2.21	0.71
36:BO:65:ARG:NH1	36:BO:67:MET:N	2.36	0.71
39:BR:23:ARG:O	39:BR:24:LEU:HD12	1.91	0.71
39:BR:6:ALA:HA	39:BR:9:ARG:HH12	1.53	0.71
40:BS:18:ASP:CG	40:BS:81:PRO:HG3	2.10	0.71
40:BS:30:VAL:HG13	40:BS:32:TYR:OH	1.90	0.71
41:BT:102:GLU:CB	41:BT:105:VAL:HB	2.20	0.71
42:BU:63:GLY:O	42:BU:97:LYS:HB2	1.91	0.71
26:BC:131:LEU:HD13	26:BC:137:LEU:HA	1.71	0.71
48:B1:5:LEU:O	48:B1:9:ARG:HG2	1.90	0.71
26:BC:148:ASN:ND2	26:BC:152:ILE:HG13	2.04	0.71
1:AA:1261:A:N6	1:AA:1274:G:C1'	2.50	0.71
1:AA:1276:G:H2'	1:AA:1277:C:O4'	1.90	0.71
1:AA:1327:C:H5''	23:AX:20:LYS:CE	2.19	0.71
1:AA:1394:A:N7	1:AA:1501:C:C1'	2.54	0.71
1:AA:452:A:H2'	1:AA:453:A:C8	2.26	0.71
1:AA:577:G:H21	1:AA:578:C:H1'	1.55	0.71
1:AA:762:C:H2'	1:AA:763:G:H8	1.53	0.71
1:AA:959:A:C3'	1:AA:960:U:H5''	2.18	0.71
4:AE:61:LEU:HD11	4:AE:68:ILE:HD11	1.73	0.71
6:AG:106:TYR:HB3	6:AG:114:ARG:HE	1.53	0.71
7:AH:35:GLY:HA3	7:AH:41:VAL:CG1	2.20	0.71
8:AI:68:PRO:O	8:AI:71:ARG:HG2	1.90	0.71
10:AK:104:ARG:HG2	10:AK:104:ARG:NH1	2.04	0.71
11:AL:6:GLY:HA2	11:AL:83:ARG:HB3	1.71	0.71
12:AM:79:ARG:HH22	12:AM:82:ILE:CD1	2.02	0.71
17:AR:36:ILE:HG22	17:AR:37:ASN:ND2	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:56:ALA:O	18:AS:60:LEU:HG	1.90	0.71
18:AS:8:ARG:C	18:AS:9:PHE:HD2	1.93	0.71
19:AT:94:ASN:OD1	19:AT:104:LYS:HD2	1.91	0.71
19:AT:8:GLY:O	19:AT:56:VAL:HA	1.91	0.71
50:B3:58:ARG:O	50:B3:61:ARG:CB	2.25	0.71
52:B5:30:THR:CG2	52:B5:31:PRO:HD3	2.21	0.71
54:B7:26:LYS:HD2	54:B7:44:LYS:N	2.05	0.71
55:B8:17:ILE:HG13	55:B8:26:ILE:HB	1.72	0.71
24:BA:1274:A:C2	24:BA:1302:A:H2	2.08	0.71
24:BA:1332:G:C5	24:BA:1609:A:N6	2.58	0.71
24:BA:1453:A:N1	24:BA:1454:U:H1'	2.06	0.71
24:BA:1567:A:H2'	24:BA:1567:A:N3	2.05	0.71
24:BA:1827:C:H1'	24:BA:1970:A:H2	1.56	0.71
24:BA:1996:C:HO2'	28:BE:123:ALA:HB3	1.56	0.71
24:BA:578:A:C2	24:BA:2018:G:O4'	2.44	0.71
24:BA:2068:U:O2	24:BA:2430:A:N1	2.24	0.71
24:BA:2072:G:H2'	24:BA:2073:C:C6	2.26	0.71
24:BA:2282:G:H4'	24:BA:2283:C:OP2	1.88	0.71
24:BA:374:A:H3'	24:BA:375:C:C6	2.26	0.71
24:BA:411:G:N2	24:BA:2407:G:C6	2.59	0.71
24:BA:28:A:C1'	24:BA:513:A:N1	2.48	0.71
24:BA:801:G:N7	29:BF:54:ARG:HG2	2.06	0.71
27:BD:37:LEU:CD1	27:BD:63:ARG:HA	2.21	0.71
28:BE:51:PHE:CG	28:BE:52:LEU:N	2.58	0.71
28:BE:54:GLN:HB3	28:BE:57:LYS:HE2	1.71	0.71
28:BE:5:LEU:HD22	28:BE:5:LEU:O	1.90	0.71
29:BF:34:TRP:HA	29:BF:34:TRP:CE3	2.25	0.71
30:BG:62:LEU:HD23	30:BG:143:GLU:HB2	1.71	0.71
31:BH:126:PRO:HG2	31:BH:132:ARG:NH2	2.06	0.71
31:BH:35:VAL:HG12	31:BH:71:LEU:HD23	1.72	0.71
34:BM:73:THR:HB	34:BM:75:TYR:CE1	2.22	0.71
35:BN:25:LEU:H	35:BN:39:ILE:HG22	1.55	0.71
37:BP:32:TYR:CE1	37:BP:106:VAL:HG23	2.25	0.71
37:BP:34:LEU:HD22	37:BP:118:LEU:HB3	1.72	0.71
46:BY:102:LEU:HB2	46:BY:124:ILE:HA	1.71	0.71
26:BC:165:ASN:HA	26:BC:170:ALA:O	1.91	0.71
39:BR:33:LYS:HG2	39:BR:54:LEU:HD11	1.72	0.71
1:AA:1037:C:N4	1:AA:1038:C:N4	2.39	0.71
1:AA:120:A:N7	1:AA:122:G:C6	2.58	0.71
1:AA:1283:G:O2'	1:AA:1284:C:H5'	1.91	0.71
1:AA:1465:C:O2	1:AA:1466:C:O4'	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:14:U:H2'	1:AA:16:A:OP2	1.89	0.71
1:AA:267:C:C4	1:AA:268:C:N4	2.59	0.71
1:AA:447:G:O5'	1:AA:447:G:H8	1.74	0.71
1:AA:484:G:H5'	1:AA:486:U:H1'	1.70	0.71
1:AA:716:A:O2'	1:AA:717:C:H5'	1.91	0.71
1:AA:760:G:O2'	19:AT:103:GLY:HA3	1.91	0.71
3:AC:19:G:N2	30:BG:82:LEU:CD1	2.54	0.71
6:AG:191:ARG:HH11	6:AG:192:GLU:HA	1.54	0.71
8:AI:30:LEU:HB3	8:AI:35:ALA:HB3	1.72	0.71
10:AK:14:ARG:O	10:AK:18:ARG:NE	2.24	0.71
10:AK:70:GLN:NE2	10:AK:71:GLY:H	1.87	0.71
14:AO:72:GLY:HA3	14:AO:102:ARG:HD2	1.72	0.71
1:AA:582:U:C5'	17:AR:64:ARG:HH21	2.02	0.71
18:AS:20:VAL:HA	18:AS:36:ILE:HG12	1.72	0.71
19:AT:22:LEU:HD21	19:AT:39:SER:OG	1.91	0.71
24:BA:1809:A:H61	50:B3:3:GLU:CG	2.03	0.71
50:B3:58:ARG:N	50:B3:61:ARG:NH1	2.39	0.71
24:BA:1044:G:H4'	24:BA:1047:G:C1'	2.19	0.71
24:BA:1350:C:O2'	24:BA:1351:C:H5'	1.91	0.71
24:BA:1535:U:H2'	24:BA:1536:A:C1'	2.20	0.71
24:BA:1534:G:N2	24:BA:1537:C:H41	1.88	0.71
24:BA:1546:C:H4'	24:BA:1547:C:H5	1.55	0.71
24:BA:1617:C:H5'	24:BA:1618:A:OP2	1.91	0.71
24:BA:1899:G:N2	24:BA:1902:C:H41	1.88	0.71
24:BA:2283:C:C5	24:BA:2389:G:N3	2.59	0.71
24:BA:2756:U:H5'	55:B8:18:ARG:O	1.90	0.71
24:BA:323:G:N2	24:BA:333:G:H1'	2.06	0.71
24:BA:37:C:H4'	24:BA:451:C:OP1	1.91	0.71
24:BA:556:G:H2'	24:BA:557:U:H6	1.54	0.71
24:BA:595:C:H2'	24:BA:596:G:H8	1.56	0.71
24:BA:688:U:O2'	24:BA:689:A:H5'	1.90	0.71
24:BA:1799:G:H22	27:BD:157:ARG:HH22	1.39	0.71
28:BE:119:ARG:CD	28:BE:155:LYS:HB3	2.21	0.71
28:BE:119:ARG:HD2	28:BE:156:MET:H	1.55	0.71
28:BE:93:VAL:HG13	28:BE:180:ASN:HD21	1.53	0.71
28:BE:47:VAL:HG13	28:BE:79:ARG:HB2	1.73	0.71
30:BG:86:MET:H	30:BG:87:PRO:CD	2.04	0.71
33:BL:24:GLY:HA2	33:BL:34:ILE:CG1	2.20	0.71
33:BL:79:ARG:HH11	33:BL:87:GLY:HA2	1.55	0.71
34:BM:17:ASP:HB3	34:BM:21:LYS:CE	2.21	0.71
34:BM:37:LYS:HE2	34:BM:43:THR:HG22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:71:ILE:O	34:BM:85:ILE:HD12	1.91	0.71
35:BN:73:ASP:O	40:BS:79:HIS:CE1	2.43	0.71
37:BP:35:VAL:HG12	37:BP:130:LYS:O	1.90	0.71
37:BP:46:GLN:OE1	37:BP:126:PRO:HB3	1.90	0.71
38:BQ:105:ARG:CA	38:BQ:105:ARG:CZ	2.65	0.71
39:BR:60:GLY:C	39:BR:62:LYS:H	1.93	0.71
39:BR:57:LYS:HG3	39:BR:68:GLN:OE1	1.90	0.71
43:BV:28:SER:HB2	43:BV:69:LEU:O	1.91	0.71
43:BV:66:GLU:HA	43:BV:69:LEU:HD13	1.71	0.71
43:BV:72:LYS:O	43:BV:73:ALA:O	2.09	0.71
26:BC:100:ILE:HA	26:BC:103:ILE:HD12	1.73	0.71
24:BA:1483:G:N3	24:BA:1483:G:H2'	2.06	0.71
1:AA:1054:C:N4	3:AB:34:G:O2'	2.24	0.71
1:AA:1126:U:O2'	1:AA:1127:G:H5'	1.91	0.71
1:AA:129(A):G:O2'	1:AA:130:A:OP2	2.07	0.71
1:AA:1492:A:N6	14:AO:50:SER:CB	2.54	0.71
1:AA:498:A:H4'	1:AA:500:G:H5'	1.72	0.71
1:AA:703:G:O2'	1:AA:704:A:OP2	2.07	0.71
1:AA:922:G:N2	1:AA:923:A:H1'	2.06	0.71
1:AA:949:A:H2'	1:AA:950:U:C6	2.26	0.71
4:AE:185:ILE:HG22	4:AE:199:TYR:HB2	1.73	0.71
6:AG:139:ARG:HG2	6:AG:140:VAL:N	2.06	0.71
6:AG:61:LYS:N	6:AG:203:VAL:HG22	2.06	0.71
7:AH:133:TYR:HD2	7:AH:136:MET:HG3	1.56	0.71
9:AJ:5:ARG:CD	9:AJ:7:ALA:H	2.03	0.71
10:AK:120:THR:N	10:AK:123:GLU:OE1	2.23	0.71
11:AL:48:GLU:N	11:AL:49:PRO:HD2	2.05	0.71
12:AM:61:GLU:HG2	12:AM:62:HIS:N	2.04	0.71
17:AR:15:PHE:CD1	17:AR:30:ALA:HB2	2.25	0.71
20:AU:37:VAL:HG12	20:AU:41:LYS:HE3	1.72	0.71
51:B4:41:PRO:O	51:B4:42:PRO:O	2.09	0.71
38:BQ:100:LEU:O	51:B4:44:THR:HG22	1.90	0.71
24:BA:1029:A:O5'	24:BA:1029:A:H8	1.72	0.71
24:BA:85:G:N3	24:BA:103:A:H2	1.88	0.71
24:BA:1081:U:O4	24:BA:1086:A:C2	2.43	0.71
24:BA:1182:A:C3'	24:BA:1183:G:H3'	2.19	0.71
24:BA:1286:A:N3	24:BA:1329:U:C4	2.58	0.71
24:BA:1312:U:H3'	24:BA:1313:U:H5	1.51	0.71
24:BA:1464:C:H4'	24:BA:1528:A:H1'	1.70	0.71
24:BA:1617:C:C4'	24:BA:1617:C:OP2	2.38	0.71
24:BA:1697:G:C3'	24:BA:1698:A:C5'	2.62	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1937:A:C2'	24:BA:1938:A:OP1	2.38	0.71
24:BA:202:U:H2'	24:BA:203:C:C6	2.26	0.71
24:BA:2311:A:C3'	24:BA:2312:U:H5	2.03	0.71
24:BA:2329:G:H1	24:BA:2386:C:H42	1.34	0.71
24:BA:2352:A:N7	24:BA:2366:A:C6	2.59	0.71
24:BA:2721:A:H2'	24:BA:2722:G:C8	2.26	0.71
24:BA:586:A:C6	24:BA:1254:A:C2	2.78	0.71
24:BA:989:G:OP1	49:B2:31:LEU:HD23	1.90	0.71
24:BA:996:A:H4'	41:BT:93:LYS:CG	2.20	0.71
27:BD:46:GLN:C	27:BD:48:ARG:N	2.41	0.71
28:BE:112:GLY:C	28:BE:113:PHE:CD1	2.65	0.71
28:BE:147:PRO:HG2	28:BE:149:ARG:HD2	1.72	0.71
28:BE:60:ASN:CG	28:BE:61:ARG:N	2.44	0.71
31:BH:132:ARG:N	31:BH:132:ARG:HD3	2.06	0.71
31:BH:7:LEU:CG	31:BH:51:ARG:HH21	2.04	0.71
35:BN:90:GLN:O	35:BN:91:LEU:C	2.29	0.71
37:BP:37:LEU:HA	37:BP:100:GLY:HA2	1.72	0.71
37:BP:46:GLN:OE1	37:BP:125:LEU:C	2.28	0.71
37:BP:36:ALA:C	37:BP:100:GLY:HA2	2.11	0.71
41:BT:92:ARG:HA	41:BT:95:LEU:HG	1.73	0.71
41:BT:98:LEU:HA	41:BT:101:ARG:HG2	1.71	0.71
24:BA:993:G:H1'	42:BU:91:TYR:HE2	1.54	0.71
24:BA:1598:C:C5'	44:BW:36:LYS:HB3	2.16	0.71
24:BA:1340:U:H5	44:BW:57:LEU:HG	1.54	0.71
46:BY:29:TYR:HD1	46:BY:34:ASN:HD22	1.39	0.71
46:BY:56:VAL:O	46:BY:57:ILE:O	2.09	0.71
24:BA:2111:C:OP2	24:BA:2111:C:C6	2.44	0.71
24:BA:2143:C:N4	24:BA:2144:U:O4	2.24	0.71
48:B1:3:LYS:HA	48:B1:6:GLU:HG2	1.72	0.71
33:BL:95:LYS:HD3	33:BL:98:ARG:NH2	2.06	0.71
24:BA:131:G:H2'	24:BA:132:G:C8	2.26	0.71
24:BA:131:G:H2'	24:BA:132:G:H8	1.55	0.71
1:AA:1324:A:O4'	1:AA:1362:C:H4'	1.91	0.70
1:AA:330:C:O2'	1:AA:331:G:H5'	1.90	0.70
1:AA:624:C:H2'	1:AA:625:G:H8	1.56	0.70
1:AA:695:A:H2'	1:AA:696:A:O4'	1.91	0.70
1:AA:795:C:H4'	1:AA:1506:U:C2	2.27	0.70
1:AA:970:C:N3	15:AP:126:LYS:NZ	2.39	0.70
5:AF:70:VAL:O	5:AF:105:GLU:HA	1.91	0.70
5:AF:29:TYR:HD2	5:AF:29:TYR:O	1.72	0.70
6:AG:135:LEU:C	6:AG:137:SER:H	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:141:ARG:O	6:AG:143:GLY:N	2.23	0.70
6:AG:63:LYS:HG2	6:AG:64:LEU:N	2.06	0.70
7:AH:81:GLU:CB	7:AH:90:VAL:HG22	2.21	0.70
9:AJ:111:ARG:NH1	9:AJ:111:ARG:HB3	2.05	0.70
18:AS:51:VAL:HG21	18:AS:73:LEU:HD11	1.72	0.70
20:AU:74:ARG:HG3	20:AU:79:LEU:CD2	2.19	0.70
53:B6:28:ARG:CA	53:B6:31:LEU:HD12	2.04	0.70
24:BA:1142(A):A:C6	24:BA:1143:A:C8	2.79	0.70
24:BA:1174:A:N3	24:BA:1174:A:H2'	2.06	0.70
24:BA:1205:U:O2'	24:BA:1206:G:N7	2.24	0.70
24:BA:1661:G:H2'	24:BA:1662:C:H6	1.55	0.70
24:BA:1813:G:HO2'	27:BD:46:GLN:HG2	1.55	0.70
24:BA:1952:A:H2	35:BN:22:ILE:HG12	1.53	0.70
24:BA:200:U:H5'	24:BA:201:C:OP2	1.91	0.70
24:BA:2241:A:H2'	24:BA:2242:G:C8	2.25	0.70
24:BA:2344:U:O2	24:BA:2344:U:H3'	1.91	0.70
24:BA:2469:A:H5'	24:BA:2469:A:C8	2.23	0.70
24:BA:2519:U:N1	24:BA:2542:A:N1	2.39	0.70
24:BA:282:A:H2'	24:BA:284:U:OP1	1.91	0.70
24:BA:498:G:H8	24:BA:498:G:O5'	1.74	0.70
24:BA:619:G:N7	24:BA:620:G:C2	2.59	0.70
24:BA:603:A:H61	24:BA:624:C:N4	1.86	0.70
24:BA:648:G:N3	24:BA:649:G:C8	2.59	0.70
24:BA:668:G:C2	24:BA:670:A:C6	2.79	0.70
24:BA:1775:U:C5	27:BD:208:LYS:HD2	2.25	0.70
24:BA:2227:A:H1'	27:BD:262:ARG:HH11	1.55	0.70
27:BD:59:LYS:O	27:BD:59:LYS:HE3	1.91	0.70
24:BA:2810:A:O2'	28:BE:61:ARG:NH2	2.24	0.70
29:BF:110:LEU:CD2	29:BF:186:ILE:HD11	2.21	0.70
29:BF:56:GLU:O	29:BF:57:VAL:C	2.28	0.70
29:BF:80:ALA:N	29:BF:83:PHE:HE2	1.86	0.70
33:BL:105:LEU:O	33:BL:109:LYS:HG3	1.91	0.70
33:BL:23:VAL:HA	33:BL:27:LEU:HG	1.72	0.70
35:BN:106:LEU:O	35:BN:109:LYS:HA	1.90	0.70
24:BA:2685:G:H4'	35:BN:66:LYS:HE3	1.71	0.70
40:BS:7:ILE:O	40:BS:8:LYS:C	2.30	0.70
41:BT:50:ARG:HD3	41:BT:50:ARG:H	1.55	0.70
43:BV:13:SER:OG	43:BV:14:PRO:CD	2.36	0.70
26:BC:42:GLU:OE2	26:BC:174:PRO:HB3	1.91	0.70
24:BA:1284:A:N1	24:BA:1285:G:N2	2.39	0.70
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:C:H1'	1:AA:1146:A:N6	2.02	0.70
1:AA:1157:A:N3	1:AA:1157:A:H2'	2.05	0.70
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.07	0.70
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.26	0.70
6:AG:76:ARG:O	6:AG:79:PHE:HB3	1.91	0.70
8:AI:10:LEU:HD21	8:AI:61:LEU:HG	1.72	0.70
8:AI:62:TRP:CZ2	8:AI:64:GLN:HB2	2.26	0.70
9:AJ:104:LEU:HD23	9:AJ:134:ALA:HB1	1.73	0.70
9:AJ:42:ILE:HG22	9:AJ:120:ILE:HD11	1.73	0.70
10:AK:70:GLN:HE22	10:AK:72:PRO:HD2	1.54	0.70
11:AL:15:ALA:HB1	11:AL:77:ILE:HG13	1.73	0.70
12:AM:15:THR:HG23	12:AM:16:LEU:CD2	2.21	0.70
13:AN:54:ARG:O	13:AN:57:THR:HG22	1.90	0.70
14:AO:58:VAL:CG1	14:AO:59:ARG:N	2.54	0.70
20:AU:70:ILE:CG2	20:AU:74:ARG:HE	2.01	0.70
48:B1:36:ILE:HG23	48:B1:37:GLY:N	2.06	0.70
52:B5:38:LYS:O	52:B5:49:HIS:HB3	1.91	0.70
54:B7:60:LEU:HD21	54:B7:64:TYR:O	1.91	0.70
24:BA:10:G:H2'	24:BA:11:G:H8	1.55	0.70
24:BA:1263:U:H5	24:BA:1265:A:N6	1.88	0.70
24:BA:1306:C:O2'	24:BA:1307:A:H5'	1.91	0.70
24:BA:1335:U:OP1	44:BW:65:ARG:HG3	1.91	0.70
24:BA:1672:C:C5	24:BA:1673:U:C6	2.79	0.70
24:BA:1935:G:H2'	24:BA:1962:C:H42	1.53	0.70
24:BA:1773:A:H2	24:BA:1977:A:H61	1.37	0.70
24:BA:2226:C:O2	24:BA:2227:A:C1'	2.39	0.70
24:BA:270(Q):C:O2'	24:BA:270(R):G:H5'	1.91	0.70
24:BA:280:C:H5''	24:BA:282:A:OP1	1.91	0.70
24:BA:296:C:O2'	24:BA:297:C:O4'	2.09	0.70
24:BA:29:U:OP1	24:BA:583:G:H4'	1.91	0.70
24:BA:324:A:N7	24:BA:340:A:H1'	2.05	0.70
24:BA:534:U:H2'	24:BA:535:C:C5	2.26	0.70
24:BA:572:A:N7	24:BA:573:G:C6	2.59	0.70
24:BA:609:A:H61	24:BA:619:G:N2	1.89	0.70
24:BA:663:G:H4'	36:BO:18:ARG:NE	2.06	0.70
24:BA:750:A:OP1	43:BV:88:ARG:NH1	2.24	0.70
24:BA:779:U:O4	24:BA:780:G:C2	2.44	0.70
27:BD:91:ARG:CZ	27:BD:198:ASN:ND2	2.54	0.70
27:BD:5:LYS:CD	27:BD:29:PRO:HB3	2.18	0.70
27:BD:54:ARG:HB3	27:BD:218:ARG:HB3	1.72	0.70
27:BD:5:LYS:CA	27:BD:29:PRO:HD3	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:14:ILE:HD11	40:BS:14:TYR:HB3	1.73	0.70
28:BE:91:VAL:HG23	28:BE:180:ASN:OD1	1.91	0.70
31:BH:113:VAL:HG12	31:BH:113:VAL:O	1.91	0.70
31:BH:119:GLU:O	31:BH:121:ILE:N	2.24	0.70
31:BH:15:VAL:HG13	31:BH:17:VAL:HB	1.74	0.70
31:BH:60:ARG:HG2	31:BH:64:LEU:HD12	1.72	0.70
34:BM:54:VAL:CG1	34:BM:122:VAL:HB	2.21	0.70
34:BM:74:ARG:HE	34:BM:82:LEU:HD11	1.54	0.70
36:BO:124:LYS:HA	36:BO:143:GLY:HA3	1.72	0.70
38:BQ:97:VAL:HA	38:BQ:114:VAL:CG2	2.20	0.70
24:BA:535:C:C5'	41:BT:49:HIS:HB3	2.20	0.70
41:BT:50:ARG:NH2	42:BU:75:PHE:CD2	2.59	0.70
45:BX:77:PRO:HG2	45:BX:78:ALA:H	1.55	0.70
45:BX:97:ARG:CZ	45:BX:101:LYS:HG2	2.21	0.70
46:BY:96:VAL:O	46:BY:128:VAL:HA	1.92	0.70
26:BC:86:ALA:HB1	26:BC:153:ILE:HD12	1.73	0.70
24:BA:1116:C:H2'	24:BA:1117:G:C8	2.26	0.70
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.56	0.70
1:AA:1032:A:C5	1:AA:1032(A):G:H1'	2.26	0.70
1:AA:1128:C:C5	1:AA:1139:G:O6	2.44	0.70
1:AA:1200:C:O5'	1:AA:1202:G:OP1	2.08	0.70
1:AA:1320:C:H42	21:AV:36:ARG:NH1	1.86	0.70
1:AA:335:C:O2'	1:AA:1433:A:N3	2.21	0.70
1:AA:26:A:H61	1:AA:558:G:C2'	2.03	0.70
1:AA:517:G:N2	1:AA:533:A:P	2.64	0.70
1:AA:858:G:H22	1:AA:870:U:P	2.15	0.70
1:AA:878:G:H2'	1:AA:879:C:H6	1.54	0.70
1:AA:970:C:H5''	1:AA:971:G:OP1	1.90	0.70
3:AC:67:C:H2'	3:AC:68:C:C6	2.26	0.70
4:AE:16:HIS:CA	4:AE:204:ASN:HB2	2.20	0.70
7:AH:86:ALA:O	7:AH:125:SER:HB3	1.91	0.70
10:AK:85:ARG:HD2	10:AK:134:ILE:O	1.90	0.70
14:AO:48:PRO:HG2	14:AO:49:ASN:H	1.56	0.70
15:AP:98:VAL:CG2	15:AP:110:ARG:HH21	2.03	0.70
17:AR:11:VAL:HA	17:AR:14:GLU:OE2	1.91	0.70
17:AR:15:PHE:HD1	17:AR:30:ALA:HB2	1.55	0.70
1:AA:192:U:H5'	22:AW:102:GLY:CA	2.21	0.70
49:B2:7:LYS:HB3	49:B2:55:ARG:HB3	1.74	0.70
54:B7:30:ARG:O	54:B7:32:LEU:HG	1.91	0.70
55:B8:10:ILE:H	55:B8:14:CYS:HB2	1.56	0.70
55:B8:20:HIS:C	55:B8:22:ARG:N	2.45	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1606:G:H4'	24:BA:1608:A:N3	2.06	0.70
24:BA:1730:U:O2'	24:BA:1731:G:C5	2.44	0.70
24:BA:1813:G:O2'	27:BD:46:GLN:HG2	1.91	0.70
24:BA:1933:G:N2	24:BA:1974:C:H5'	2.01	0.70
24:BA:2417:C:H2'	24:BA:2418:A:H8	1.54	0.70
24:BA:2597:G:C5'	27:BD:242:ARG:HG2	2.20	0.70
24:BA:270(E):G:H2'	24:BA:270(F):U:H6	1.56	0.70
24:BA:280:C:H41	24:BA:283:A:H62	1.38	0.70
24:BA:2850:A:H2'	24:BA:2851:A:H8	1.56	0.70
24:BA:307:G:N2	24:BA:310:A:C8	2.60	0.70
24:BA:336:C:H4'	45:BX:67:LEU:CD2	2.21	0.70
24:BA:569:U:H1'	24:BA:947:G:H1'	1.73	0.70
24:BA:709:U:H2'	24:BA:710:G:C8	2.26	0.70
24:BA:957:A:C2	24:BA:2459:A:H5''	2.27	0.70
24:BA:991:C:OP2	24:BA:1186:G:OP2	2.09	0.70
27:BD:226:MET:CE	27:BD:237:GLU:O	2.39	0.70
24:BA:1798:U:C5'	27:BD:257:LEU:HD12	2.20	0.70
28:BE:22:PRO:HA	28:BE:185:LYS:CA	2.21	0.70
29:BF:142:TRP:O	29:BF:145:GLU:HB2	1.91	0.70
30:BG:17:PRO:HA	30:BG:20:ILE:HB	1.73	0.70
30:BG:68:PRO:HB3	30:BG:72:ARG:CZ	2.21	0.70
24:BA:1012:U:C4	34:BM:25:ARG:HB3	2.27	0.70
35:BN:64:ARG:HE	35:BN:67:LYS:N	1.90	0.70
35:BN:88:ASN:O	35:BN:90:GLN:N	2.24	0.70
36:BO:96:THR:HG22	36:BO:99:LEU:HD12	1.71	0.70
37:BP:56:ARG:HD2	37:BP:57:HIS:N	2.07	0.70
39:BR:9:ARG:HH11	39:BR:9:ARG:N	1.88	0.70
24:BA:18:C:OP1	41:BT:26:GLY:HA2	1.90	0.70
24:BA:1322:A:P	43:BV:11:ARG:HH11	2.14	0.70
45:BX:28:LYS:HG2	45:BX:28:LYS:O	1.92	0.70
47:BZ:19:LYS:CG	47:BZ:20:ARG:H	2.03	0.70
26:BC:6:ARG:NH1	26:BC:7:TYR:HA	2.06	0.70
24:BA:1579:A:N7	24:BA:1580:A:N3	2.38	0.70
32:BK:135:GLU:OE1	32:BK:135:GLU:N	2.24	0.70
1:AA:1062:U:C2'	1:AA:1063:C:C5	2.67	0.70
1:AA:47:C:C4'	1:AA:48:C:H5''	2.17	0.70
1:AA:893:C:O2'	1:AA:894:G:H5'	1.92	0.70
4:AE:48:MET:HA	4:AE:51:LEU:CD1	2.20	0.70
5:AF:77:ILE:HD11	5:AF:103:VAL:HG21	1.72	0.70
6:AG:20:TYR:CA	6:AG:26:CYS:O	2.39	0.70
6:AG:58:LEU:HD13	6:AG:58:LEU:C	2.12	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:29:SER:HB2	10:AK:32:LYS:NZ	2.05	0.70
10:AK:92:ARG:HD2	10:AK:92:ARG:N	2.04	0.70
13:AN:30:VAL:O	13:AN:42:TRP:HB2	1.91	0.70
14:AO:27:LEU:HD23	14:AO:33:ARG:HD3	1.74	0.70
21:AV:40:ILE:HB	21:AV:67:VAL:O	1.91	0.70
48:B1:19:LEU:HD13	48:B1:20:VAL:N	2.05	0.70
50:B3:64:GLY:O	50:B3:68:ARG:CZ	2.40	0.70
51:B4:50:GLY:O	51:B4:55:ARG:HA	1.92	0.70
52:B5:44:ARG:HB2	52:B5:47:THR:CG2	2.22	0.70
24:BA:1005:C:C5	24:BA:1143:A:OP1	2.41	0.70
24:BA:1264:G:N7	24:BA:1265:A:C4	2.59	0.70
24:BA:1332:G:C4	24:BA:1609:A:N1	2.59	0.70
24:BA:1479:G:N2	24:BA:1515:C:C2	2.59	0.70
24:BA:2051:A:C6	24:BA:2614:A:C5	2.79	0.70
24:BA:2075:U:H5	24:BA:2435:A:C2	2.09	0.70
24:BA:2225:A:H4'	24:BA:2226:C:O5'	1.90	0.70
24:BA:2278:A:N7	47:BZ:14:ARG:HB3	2.06	0.70
24:BA:2286:A:O3'	24:BA:2287:A:O4'	2.09	0.70
24:BA:2373:G:O2'	24:BA:2374:C:O5'	2.09	0.70
24:BA:2408:U:O5'	24:BA:2408:U:C6	2.43	0.70
24:BA:2077:A:H1'	24:BA:2434:A:O2'	1.91	0.70
24:BA:248:G:N3	24:BA:2431:U:C5'	2.51	0.70
24:BA:2578:G:HO2'	24:BA:2579:C:H6	1.38	0.70
24:BA:2652:C:H2'	24:BA:2653:U:C6	2.26	0.70
24:BA:312:G:H3'	24:BA:313:C:H5	1.55	0.70
24:BA:373:U:H4'	24:BA:374:A:C8	2.26	0.70
24:BA:469:G:N2	53:B6:40:TRP:CZ2	2.52	0.70
24:BA:557:U:H4'	34:BM:112:LEU:HD21	1.72	0.70
24:BA:562:U:O2	24:BA:572:A:C1'	2.39	0.70
25:BB:114:G:H2'	25:BB:115:G:O4'	1.91	0.70
27:BD:54:ARG:CA	27:BD:219:PRO:HG2	2.18	0.70
27:BD:258:LYS:HA	27:BD:261:LYS:HZ2	1.56	0.70
28:BE:152:LYS:O	28:BE:152:LYS:HD2	1.91	0.70
28:BE:36:ARG:CD	28:BE:41:LYS:HZ1	2.04	0.70
24:BA:2787:C:C1'	28:BE:61:ARG:HD2	2.21	0.70
31:BH:35:VAL:HG11	31:BH:72:ILE:CA	2.12	0.70
33:BL:52:ILE:HD12	33:BL:76:TYR:HD2	1.56	0.70
24:BA:558:G:OP1	34:BM:111:PRO:HG2	1.91	0.70
34:BM:37:LYS:HD2	34:BM:43:THR:CA	2.21	0.70
34:BM:10:GLU:CD	34:BM:39:ARG:HD2	2.11	0.70
35:BN:8:LEU:HD13	35:BN:9:GLU:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:111:ARG:NH2	36:BO:113:LYS:HB2	2.07	0.70
36:BO:126:VAL:HG23	36:BO:146:VAL:O	1.92	0.70
36:BO:76:LYS:HA	36:BO:101:VAL:CG1	2.21	0.70
37:BP:35:VAL:HG23	37:BP:101:ARG:C	2.10	0.70
37:BP:112:GLU:C	37:BP:115:MET:HB2	2.10	0.70
24:BA:2468:G:H4'	37:BP:120:ILE:HD13	1.73	0.70
46:BY:129:SER:HB3	46:BY:133:ILE:CG2	2.21	0.70
32:BK:66:GLU:HG3	32:BK:69:LYS:NZ	2.06	0.70
32:BK:87:LYS:HB3	32:BK:121:LYS:HE2	1.74	0.70
24:BA:2178:C:H5''	26:BC:46:LYS:HG2	1.73	0.70
39:BR:33:LYS:HG2	39:BR:54:LEU:CD1	2.21	0.70
1:AA:1306:A:H2'	1:AA:1307:U:O4'	1.91	0.70
1:AA:1326:C:H5''	23:AX:12:LYS:NZ	2.07	0.70
1:AA:1494:G:N2	1:AA:1495:U:C4	2.58	0.70
1:AA:197:A:P	1:AA:197:A:O4'	2.50	0.70
1:AA:719:C:H3'	1:AA:720:C:C6	2.26	0.70
4:AE:54:THR:CG2	4:AE:201:ILE:HD11	2.19	0.70
5:AF:187:ALA:H	5:AF:198:VAL:HG22	1.56	0.70
8:AI:14:LEU:HD12	8:AI:15:ASP:O	1.91	0.70
10:AK:47:GLY:O	10:AK:61:VAL:HG13	1.91	0.70
12:AM:82:ILE:HG23	12:AM:86:MET:SD	2.31	0.70
15:AP:13:LYS:O	15:AP:14:ARG:O	2.09	0.70
1:AA:1312:G:N7	21:AV:3:ARG:O	2.24	0.70
44:BW:7:VAL:HG21	48:B1:28:MET:HG2	1.73	0.70
52:B5:50:ARG:NH2	52:B5:52:VAL:HG21	2.05	0.70
54:B7:38:GLY:O	54:B7:41:ILE:HG12	1.91	0.70
24:BA:1057:A:H2'	24:BA:1058:G:H8	1.55	0.70
24:BA:126:A:N7	24:BA:127:A:C5	2.60	0.70
24:BA:1324:G:H5''	24:BA:1325:G:O2'	1.91	0.70
24:BA:1918:A:N7	24:BA:1919:A:N6	2.40	0.70
24:BA:2024:G:H2'	24:BA:2025:C:O4'	1.89	0.70
24:BA:299:A:O2'	24:BA:319:C:H4'	1.91	0.70
24:BA:464:U:H2'	24:BA:465:G:C8	2.26	0.70
24:BA:58:G:H1'	24:BA:70:G:N2	2.07	0.70
24:BA:652:C:H6	24:BA:652:C:O5'	1.73	0.70
24:BA:760:G:H2'	24:BA:761:A:H5'	1.72	0.70
24:BA:783:A:O2'	24:BA:784:A:OP1	2.08	0.70
25:BB:27:C:H3'	25:BB:28:C:C6	2.26	0.70
27:BD:164:GLN:HB3	27:BD:176:ARG:HB3	1.72	0.70
27:BD:177:LEU:HD11	27:BD:268:ARG:CZ	2.20	0.70
27:BD:75:ILE:HD13	27:BD:99:ASP:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:176:ILE:HG21	28:BE:181:LEU:HB2	1.73	0.70
31:BH:43:VAL:CG1	31:BH:44:VAL:N	2.54	0.70
31:BH:11:VAL:HB	31:BH:50:VAL:CG2	2.21	0.70
32:BK:21:VAL:HG11	32:BK:30:LEU:HG	1.71	0.70
34:BM:78:TYR:CB	34:BM:79:PRO:HD2	2.21	0.70
35:BN:7:TYR:CB	35:BN:18:LYS:HE3	2.22	0.70
35:BN:9:GLU:CB	35:BN:82:ASN:HB3	2.17	0.70
38:BQ:90:ARG:NH2	38:BQ:117:VAL:HG13	2.06	0.70
40:BS:108:ARG:H	40:BS:108:ARG:HH11	1.39	0.70
40:BS:65:LYS:HA	40:BS:76:PHE:O	1.90	0.70
41:BT:50:ARG:CB	41:BT:50:ARG:HH11	2.04	0.70
42:BU:20:LEU:HB3	42:BU:95:LEU:HD13	1.74	0.70
41:BT:94:ASN:HD22	42:BU:6:LYS:NZ	1.89	0.70
44:BW:73:ARG:CG	44:BW:74:PRO:HD2	2.22	0.70
46:BY:15:PRO:O	46:BY:18:LEU:HB2	1.90	0.70
24:BA:2127:G:O2'	24:BA:2128:C:H5'	1.91	0.70
3:AC:44:G:H2'	3:AC:45:U:O4'	1.91	0.70
1:AA:1196:U:H6	1:AA:1196:U:H3'	1.54	0.70
1:AA:1407:C:O2'	1:AA:1408:A:H5'	1.92	0.70
1:AA:168:G:N1	1:AA:169:C:N4	2.40	0.70
1:AA:540:G:C6	1:AA:541:G:C5	2.80	0.70
1:AA:787:A:H2'	1:AA:788:U:C5'	2.21	0.70
1:AA:959:A:H2'	1:AA:960:U:C4'	2.21	0.70
3:AB:10:G:H2'	3:AB:11:C:H6	1.56	0.70
4:AE:115:LEU:HB2	4:AE:145:LEU:HG	1.74	0.70
4:AE:24:TRP:CZ3	4:AE:26:PRO:HA	2.27	0.70
7:AH:9:LYS:HG3	7:AH:112:LEU:HG	1.73	0.70
8:AI:48:LEU:CB	20:AU:78:LEU:HD23	2.20	0.70
9:AJ:141:VAL:O	9:AJ:144:MET:HE2	1.91	0.70
9:AJ:38:LEU:HA	9:AJ:41:ARG:CG	2.22	0.70
10:AK:9:MET:HG2	10:AK:13:ILE:CD1	2.21	0.70
1:AA:624:C:H4'	18:AS:10:GLY:O	1.90	0.70
19:AT:82:MET:HA	19:AT:85:VAL:CG2	2.20	0.70
20:AU:46:GLU:H	20:AU:49:LYS:NZ	1.89	0.70
54:B7:22:VAL:N	54:B7:48:PHE:CE1	2.59	0.70
24:BA:1160:G:H2'	24:BA:1161:C:C5	2.26	0.70
24:BA:1213:A:H61	24:BA:1236:G:H1'	1.55	0.70
24:BA:1313:U:H2'	24:BA:1314:C:H6	1.55	0.70
24:BA:1473:G:H2'	24:BA:1474:C:C6	2.26	0.70
24:BA:1735:C:N4	24:BA:1741:C:N4	2.39	0.70
24:BA:1856:G:H2'	24:BA:1857:G:C5'	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1906:G:C8	24:BA:1929:G:H2'	2.26	0.70
24:BA:1995:U:C5	24:BA:1996:C:C5	2.80	0.70
24:BA:2083:G:C2	24:BA:2084:C:C2	2.80	0.70
24:BA:2378:A:N1	24:BA:2379:G:H1'	2.05	0.70
24:BA:2484:G:C2'	24:BA:2485:G:H5'	2.22	0.70
24:BA:2485:G:O2'	24:BA:2486:G:H5'	1.92	0.70
24:BA:2503:A:O2'	24:BA:2504:U:OP1	2.09	0.70
24:BA:2616:C:H2'	24:BA:2617:C:C6	2.27	0.70
24:BA:270(Q):C:C2	24:BA:270(R):G:C8	2.79	0.70
24:BA:297:C:N4	24:BA:298:G:C2	2.59	0.70
24:BA:308:G:H22	24:BA:329:G:H2'	1.55	0.70
24:BA:526:A:H5''	24:BA:527:C:OP2	1.91	0.70
24:BA:532:A:H4'	24:BA:532:A:OP1	1.92	0.70
24:BA:720:C:H2'	24:BA:721:C:H6	1.56	0.70
24:BA:979:G:N7	24:BA:981:A:OP1	2.25	0.70
27:BD:92:ILE:HA	27:BD:107:ALA:HB2	1.72	0.70
28:BE:149:ARG:HE	28:BE:150:VAL:C	1.95	0.70
28:BE:171:GLU:HB2	28:BE:185:LYS:NZ	2.06	0.70
31:BH:71:LEU:O	31:BH:74:ASN:HB3	1.91	0.70
31:BH:99:VAL:HG23	31:BH:104:GLU:HG2	1.74	0.70
33:BL:112:MET:HE1	33:BL:119:ASP:N	2.07	0.70
33:BL:17:ALA:CB	33:BL:38:VAL:HG13	2.18	0.70
35:BN:79:PHE:HB2	40:BS:73:GLU:CD	2.12	0.70
36:BO:126:VAL:HB	36:BO:146:VAL:N	2.06	0.70
36:BO:45:LEU:HB3	36:BO:46:LYS:CE	2.21	0.70
37:BP:45:GLN:O	37:BP:48:GLU:N	2.24	0.70
37:BP:55:VAL:HG22	37:BP:64:ILE:HD11	1.73	0.70
38:BQ:61:HIS:O	38:BQ:64:ARG:HD3	1.91	0.70
38:BQ:96:ARG:HB2	38:BQ:117:VAL:HB	1.73	0.70
41:BT:70:ARG:HB2	41:BT:70:ARG:CZ	2.22	0.70
42:BU:62:LEU:HB2	42:BU:64:HIS:ND1	2.05	0.70
46:BY:95:PRO:CG	46:BY:131:ARG:H	2.03	0.70
3:AB:69:G:H2'	3:AB:70:G:O4'	1.92	0.70
24:BA:1418:G:N3	24:BA:1581:G:N2	2.40	0.70
1:AA:1068:G:H2'	1:AA:1069:C:H6	1.56	0.70
1:AA:1274:G:H22	1:AA:1275:A:H62	1.38	0.70
1:AA:275:G:H5'	19:AT:14:LYS:HZ2	1.53	0.70
1:AA:659:U:H2'	1:AA:660:G:C8	2.26	0.70
1:AA:711:G:O2'	1:AA:712:A:H5'	1.92	0.70
1:AA:745:C:H5''	1:AA:851:G:H1'	1.72	0.70
1:AA:891:U:H5	1:AA:906:G:N1	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:38:ARG:HB2	5:AF:94:LEU:CD1	2.22	0.70
1:AA:403:C:O2'	6:AG:122:ARG:CZ	2.39	0.70
6:AG:187:ARG:HE	6:AG:188:LEU:HG	1.57	0.70
7:AH:98:THR:HG21	7:AH:119:LEU:HD21	1.72	0.70
10:AK:10:LEU:HA	10:AK:13:ILE:HD12	1.74	0.70
10:AK:119:LEU:HB3	10:AK:123:GLU:OE1	1.91	0.70
10:AK:50:ARG:NH1	10:AK:50:ARG:HG2	2.03	0.70
14:AO:100:ILE:HD13	14:AO:100:ILE:N	2.06	0.70
14:AO:68:ALA:HB1	14:AO:99:HIS:HA	1.73	0.70
16:AQ:51:GLY:C	16:AQ:53:LEU:H	1.92	0.70
18:AS:51:VAL:CG2	18:AS:73:LEU:HD11	2.22	0.70
20:AU:33:ASP:OD2	20:AU:36:ASN:HB2	1.91	0.70
49:B2:31:LEU:CD1	49:B2:32:GLN:HE22	2.04	0.70
52:B5:20:ASN:ND2	52:B5:43:CYS:SG	2.65	0.70
52:B5:33:LYS:O	52:B5:34:LEU:C	2.28	0.70
54:B7:22:VAL:CG1	54:B7:23:VAL:H	2.04	0.70
54:B7:8:LYS:CE	54:B7:8:LYS:H	2.02	0.70
24:BA:1048:A:OP2	24:BA:1109:C:N4	2.24	0.70
24:BA:1055:G:N3	24:BA:1084:A:C2	2.59	0.70
24:BA:126:A:H2'	24:BA:127:A:H5'	1.73	0.70
24:BA:1735:C:C4	24:BA:1741:C:N4	2.60	0.70
24:BA:1750:G:O2'	24:BA:1751:C:H5'	1.91	0.70
24:BA:1829:A:N1	24:BA:1830:C:H1'	2.07	0.70
24:BA:1832:C:H2'	24:BA:1833:U:H5'	1.71	0.70
24:BA:1916:A:N3	24:BA:1917:U:O4	2.24	0.70
24:BA:1939:U:H1'	24:BA:2592:G:H1'	1.72	0.70
24:BA:1992:G:H4'	24:BA:1993:U:C4	2.26	0.70
24:BA:2219:G:H2'	24:BA:2224:G:H5'	1.74	0.70
24:BA:2393:A:O2'	24:BA:2394:C:H5'	1.90	0.70
24:BA:2582:G:C2'	24:BA:2583:G:H5'	2.21	0.70
24:BA:270(X):G:C6	24:BA:270(Y):G:H1'	2.25	0.70
24:BA:2848:G:N2	24:BA:2867:G:N3	2.40	0.70
24:BA:2849:U:H3'	24:BA:2849:U:C6	2.27	0.70
24:BA:569:U:H1'	24:BA:947:G:C1'	2.21	0.70
24:BA:781:A:H5'	24:BA:782:A:OP1	1.91	0.70
24:BA:930:U:O2'	24:BA:931:G:O5'	2.10	0.70
27:BD:158:ALA:C	27:BD:160:GLY:H	1.94	0.70
27:BD:5:LYS:HB2	27:BD:82:ILE:HD12	1.73	0.70
28:BE:41:LYS:O	28:BE:43:GLY:N	2.24	0.70
31:BH:164:TYR:CE2	31:BH:167:GLU:HG2	2.26	0.70
35:BN:68:GLU:HA	35:BN:104:ARG:CZ	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2675:A:H4'	35:BN:29:ASN:OD1	1.92	0.70
36:BO:72:PRO:HB3	36:BO:110:TYR:C	2.12	0.70
37:BP:110:THR:O	37:BP:111:GLU:CB	2.39	0.70
37:BP:22:LYS:CD	37:BP:23:GLY:H	2.04	0.70
38:BQ:64:ARG:NH1	38:BQ:65:LEU:HB2	2.06	0.70
39:BR:31:SER:HB3	39:BR:34:HIS:CD2	2.27	0.70
40:BS:53:ARG:NH2	40:BS:102:ILE:CD1	2.55	0.70
40:BS:6:LEU:CD2	40:BS:7:ILE:HG23	2.21	0.70
40:BS:85:LYS:H	40:BS:85:LYS:NZ	1.90	0.70
42:BU:4:ILE:N	42:BU:4:ILE:HD12	2.06	0.70
42:BU:62:LEU:HD13	42:BU:98:GLU:HA	1.74	0.70
45:BX:11:ASP:O	45:BX:73:ARG:HD2	1.90	0.70
45:BX:1:MET:H1	45:BX:33:LYS:HE3	1.55	0.70
46:BY:41:LEU:O	46:BY:44:PHE:HB2	1.91	0.70
46:BY:39:VAL:HG21	46:BY:86:VAL:CG2	2.20	0.70
24:BA:1580:A:H2'	24:BA:1581:G:C8	2.27	0.70
1:AA:800:G:C8	1:AA:800:G:O5'	2.44	0.70
28:BE:15:PHE:CD2	28:BE:16:ARG:HG3	2.27	0.70
1:AA:1064:G:N3	1:AA:1066:C:N4	2.40	0.70
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.26	0.70
1:AA:519:C:C2'	1:AA:520:A:H5'	2.21	0.70
1:AA:517:G:N2	1:AA:533:A:OP2	2.25	0.70
1:AA:19:C:O2	1:AA:572:A:H2	1.75	0.70
1:AA:789:U:H6	1:AA:789:U:H3'	1.57	0.70
4:AE:116:GLU:HG2	4:AE:117:GLU:N	2.04	0.70
4:AE:118:LEU:CD2	4:AE:142:LEU:HB2	2.20	0.70
4:AE:187:LEU:HD13	4:AE:188:ALA:N	2.06	0.70
4:AE:59:GLU:HB3	4:AE:221:LEU:CD2	2.17	0.70
5:AF:113:ALA:HB2	5:AF:202:ILE:HG13	1.74	0.70
5:AF:11:ARG:HG3	5:AF:16:ARG:NH2	2.06	0.70
5:AF:91:LEU:HD11	5:AF:99:VAL:H	1.55	0.70
7:AH:147:ASP:HA	7:AH:150:ARG:CB	2.20	0.70
7:AH:20:GLN:HE22	7:AH:21:ALA:HB3	1.57	0.70
7:AH:81:GLU:HA	7:AH:89:ILE:O	1.92	0.70
13:AN:63:LEU:C	13:AN:63:LEU:HD23	2.11	0.70
13:AN:65:ALA:HB1	13:AN:98:LEU:CD2	2.22	0.70
18:AS:35:LYS:HZ2	18:AS:37:GLY:N	1.89	0.70
50:B3:41:PRO:HB2	50:B3:57:GLU:OE2	1.91	0.70
52:B5:22:ALA:HB1	52:B5:39:TYR:CE2	2.26	0.70
52:B5:29:ASN:O	52:B5:30:THR:O	2.10	0.70
52:B5:48:VAL:O	52:B5:49:HIS:HB2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:25:VAL:HG11	55:B8:34:GLN:NE2	2.05	0.70
24:BA:1079:C:O2'	24:BA:1080:C:H5'	1.92	0.70
24:BA:114:U:H2'	24:BA:115:C:C6	2.27	0.70
24:BA:1521:G:O5'	24:BA:1522:G:OP2	2.10	0.70
24:BA:175:G:O2'	24:BA:176:G:H5'	1.90	0.70
24:BA:1914:C:OP2	24:BA:1916:A:N6	2.25	0.70
24:BA:1935:G:N2	24:BA:1962:C:O2'	2.21	0.70
24:BA:2009:G:H1'	38:BQ:107:ASP:HA	1.74	0.70
24:BA:2033:A:N1	24:BA:2036:C:C4	2.60	0.70
24:BA:2537:U:C4	24:BA:2538:C:N4	2.60	0.70
24:BA:253:C:H2'	24:BA:254:G:C5'	2.22	0.70
24:BA:2618:G:C2	24:BA:2619:C:C6	2.80	0.70
24:BA:2697:G:O2'	24:BA:2698:U:H5'	1.91	0.70
24:BA:33:U:O2'	24:BA:34:C:H5	1.73	0.70
24:BA:388:G:N3	24:BA:390:A:C6	2.60	0.70
24:BA:513:A:C6	24:BA:514:A:N7	2.59	0.70
24:BA:959:A:H2'	24:BA:960:A:C8	2.27	0.70
24:BA:960:A:O2'	24:BA:961:C:H5'	1.91	0.70
25:BB:112:G:N3	25:BB:112:G:H2'	2.05	0.70
27:BD:178:PRO:O	27:BD:180:GLY:N	2.25	0.70
28:BE:171:GLU:HB2	28:BE:185:LYS:HZ3	1.56	0.70
29:BF:122:LYS:HD3	29:BF:123:LEU:N	2.06	0.70
29:BF:171:PRO:O	29:BF:173:VAL:N	2.25	0.70
30:BG:4:ASP:HA	30:BG:7:LEU:HD12	1.73	0.70
30:BG:39:ILE:HD13	30:BG:92:VAL:CG1	2.21	0.70
31:BH:94:TYR:H	31:BH:95:ARG:HH21	1.36	0.70
34:BM:55:VAL:N	34:BM:130:HIS:CE1	2.60	0.70
35:BN:63:VAL:HG22	35:BN:82:ASN:H	1.56	0.70
36:BO:113:LYS:HA	36:BO:129:ALA:O	1.92	0.70
36:BO:74:GLU:HB2	36:BO:107:LYS:NZ	2.07	0.70
37:BP:42:ILE:HG23	37:BP:42:ILE:O	1.92	0.70
38:BQ:56:LYS:O	38:BQ:58:GLY:N	2.25	0.70
45:BX:38:ILE:HG23	45:BX:60:PHE:HZ	1.54	0.70
24:BA:2114:A:C2'	24:BA:2115:G:H5'	2.22	0.70
26:BC:14:VAL:HG12	26:BC:16:PRO:HD3	1.73	0.70
24:BA:2104:G:N2	24:BA:2105:C:C2	2.59	0.70
2:A1:14:U:H2'	2:A1:15:U:C6	2.26	0.70
1:AA:1201:A:H2'	1:AA:1201:A:N3	2.07	0.70
1:AA:1203:C:O2'	1:AA:1204:A:H5'	1.91	0.70
1:AA:130:A:N7	19:AT:64:PRO:HD2	2.07	0.70
1:AA:1315:U:O2'	1:AA:1360:A:N3	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.25	0.70
1:AA:421:U:H5''	1:AA:422:C:OP2	1.91	0.70
1:AA:519:C:H2'	1:AA:520:A:C5'	2.21	0.70
1:AA:535:A:H4'	1:AA:536:C:OP2	1.92	0.70
1:AA:858:G:N1	1:AA:869:G:H3'	2.07	0.70
1:AA:865:A:C4	1:AA:866:C:O2	2.45	0.70
1:AA:944:G:H3'	1:AA:945:G:C5'	2.21	0.70
4:AE:132:LYS:H	4:AE:132:LYS:CE	2.03	0.70
1:AA:1206:G:C5'	5:AF:194:GLY:HA2	2.21	0.70
6:AG:145:GLU:HG2	6:AG:184:LYS:HE2	1.72	0.70
6:AG:78:LEU:CD1	6:AG:96:LEU:HB3	2.22	0.70
7:AH:28:PHE:N	7:AH:28:PHE:CD1	2.58	0.70
7:AH:59:GLY:C	7:AH:63:ARG:HH21	1.95	0.70
8:AI:8:ILE:HG23	8:AI:88:VAL:HA	1.73	0.70
9:AJ:143:ARG:CD	9:AJ:144:MET:N	2.55	0.70
11:AL:10:ARG:HA	11:AL:104:ARG:HE	1.57	0.70
13:AN:95:ILE:CA	13:AN:98:LEU:HG	2.20	0.70
14:AO:82:VAL:N	14:AO:106:ASP:OD1	2.24	0.70
15:AP:10:PRO:HB2	15:AP:18:ALA:HA	1.73	0.70
17:AR:36:ILE:HD11	17:AR:60:VAL:CG1	2.22	0.70
22:AW:27:LYS:C	22:AW:27:LYS:HD3	2.12	0.70
50:B3:10:VAL:O	50:B3:10:VAL:HG12	1.91	0.70
50:B3:20:ASN:HB2	50:B3:30:GLU:HB2	1.73	0.70
50:B3:56:VAL:HG12	50:B3:57:GLU:N	2.06	0.70
52:B5:25:LYS:CE	54:B7:35:GLN:O	2.40	0.70
24:BA:1388:G:O2'	24:BA:1525:G:H5'	1.91	0.70
24:BA:1527:G:H2'	24:BA:1528:A:O4'	1.92	0.70
24:BA:1624:G:H2'	24:BA:1625:C:C5	2.26	0.70
24:BA:1743:G:C6	24:BA:1746:G:C5	2.80	0.70
24:BA:197:A:O4'	24:BA:2068:U:N3	2.25	0.70
24:BA:2056:G:OP2	24:BA:2057:A:OP2	2.10	0.70
24:BA:2307:G:C5	24:BA:2308:G:H1'	2.26	0.70
24:BA:2376:A:OP1	24:BA:2376:A:H8	1.74	0.70
24:BA:2468:G:P	24:BA:2476:A:H61	2.15	0.70
24:BA:2807:G:H2'	24:BA:2808:U:H5	1.56	0.70
24:BA:343:C:H2'	24:BA:344:G:C5'	2.21	0.70
24:BA:566:U:O4	24:BA:575:A:N1	2.24	0.70
24:BA:668:G:C2	24:BA:670:A:N6	2.60	0.70
24:BA:720:C:O2'	24:BA:721:C:H5'	1.91	0.70
25:BB:45:A:H1'	30:BG:95:ARG:CZ	2.22	0.70
24:BA:2227:A:H5''	27:BD:260:ARG:HD2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:693:C:OP1	27:BD:60:ARG:CZ	2.40	0.70
28:BE:147:PRO:CB	28:BE:149:ARG:HD2	2.22	0.70
28:BE:5:LEU:CD2	28:BE:196:VAL:HB	2.21	0.70
31:BH:25:LYS:HD3	31:BH:27:LYS:NZ	2.07	0.70
31:BH:7:LEU:H	31:BH:8:PRO:HD2	1.57	0.70
31:BH:8:PRO:N	31:BH:69:ARG:HH11	1.90	0.70
35:BN:106:LEU:HD12	35:BN:107:ARG:N	2.06	0.70
41:BT:108:GLU:OE1	41:BT:109:LEU:N	2.24	0.70
46:BY:136:PHE:HB3	46:BY:138:GLU:OE2	1.91	0.70
24:BA:1039:G:H22	24:BA:1115:G:H22	1.40	0.70
24:BA:1484:G:H2'	24:BA:1485:G:C5'	2.21	0.70
33:BL:61:ALA:C	33:BL:63:ARG:H	1.95	0.70
10:AK:54:ASP:O	10:AK:56:LYS:HD2	1.92	0.70
1:AA:1073:U:O2'	1:AA:1074:G:H5'	1.91	0.70
1:AA:1120:G:H8	1:AA:1120:G:O5'	1.75	0.70
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.27	0.70
1:AA:529:G:C3'	1:AA:529:G:C8	2.75	0.70
1:AA:572:A:OP1	1:AA:573:A:OP1	2.10	0.70
1:AA:595:G:O6	1:AA:641:U:H3'	1.92	0.70
1:AA:843:U:H3'	1:AA:848:C:H5'	1.74	0.70
1:AA:959:A:H2	1:AA:1221:G:N3	1.90	0.70
1:AA:973:G:H22	1:AA:974:A:N6	1.89	0.70
4:AE:97:TRP:CZ2	4:AE:102:LEU:HD13	2.24	0.70
4:AE:25:ASN:O	4:AE:25:ASN:CG	2.27	0.70
7:AH:78:HIS:NE2	7:AH:142:LEU:HB3	2.06	0.70
7:AH:52:PRO:O	7:AH:55:VAL:CB	2.37	0.70
9:AJ:113:GLU:OE1	9:AJ:118:VAL:HG12	1.91	0.70
15:AP:59:TYR:CE1	15:AP:63:THR:HG21	2.27	0.70
21:AV:18:LYS:HE2	21:AV:22:LEU:HB2	1.74	0.70
1:AA:1319:A:OP2	21:AV:5:LEU:HD22	1.92	0.70
21:AV:38:SER:O	21:AV:70:LYS:HA	1.90	0.70
50:B3:41:PRO:HB2	50:B3:57:GLU:CD	2.11	0.70
50:B3:42:PHE:N	50:B3:57:GLU:OE2	2.25	0.70
51:B4:9:LYS:O	51:B4:10:LYS:HB2	1.91	0.70
24:BA:2467:C:OP1	55:B8:8:LYS:NZ	2.25	0.70
24:BA:1215:G:H2'	24:BA:1216:G:O4'	1.92	0.70
24:BA:512:G:OP2	24:BA:1235:G:H5'	1.92	0.70
24:BA:1698:A:HO2'	24:BA:1699:G:C3'	2.05	0.70
24:BA:1955:U:C3'	24:BA:1956:U:H5	2.05	0.70
24:BA:200:U:C4	24:BA:201:C:H1'	2.27	0.70
24:BA:211:A:H2'	24:BA:212:G:O4'	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1966:A:C4	24:BA:2593:U:H5'	2.27	0.70
24:BA:2681:C:O2'	24:BA:2682:U:C5'	2.38	0.70
24:BA:2748:A:C2	24:BA:2757:A:N6	2.60	0.70
24:BA:2757:A:H2'	24:BA:2758:A:C5'	2.20	0.70
24:BA:455:C:O2'	24:BA:456:C:H5'	1.92	0.70
24:BA:781:A:O2'	27:BD:222:ARG:NH2	2.25	0.70
24:BA:935:C:C2	24:BA:936:C:C5	2.80	0.70
25:BB:42:C:N3	30:BG:93:THR:HB	2.07	0.70
29:BF:133:ASN:HB3	29:BF:165:ARG:HH22	1.57	0.70
29:BF:195:ASP:O	29:BF:197:ASP:N	2.22	0.70
31:BH:156:ALA:HA	31:BH:171:LEU:CD2	2.22	0.70
31:BH:6:ARG:C	31:BH:69:ARG:HE	1.95	0.70
34:BM:35:ARG:NH1	34:BM:48:MET:HE1	2.07	0.70
35:BN:43:VAL:CG1	35:BN:54:GLU:HA	2.21	0.70
36:BO:137:LYS:CE	36:BO:137:LYS:HA	2.21	0.70
37:BP:6:ARG:NH2	37:BP:8:LYS:H	1.90	0.70
40:BS:86:ILE:HG22	40:BS:87:ASP:N	2.05	0.70
41:BT:115:ALA:O	41:BT:118:GLY:N	2.25	0.70
41:BT:74:LEU:HB3	41:BT:78:THR:OG1	1.92	0.70
42:BU:61:VAL:HG12	42:BU:62:LEU:N	2.07	0.70
43:BV:88:ARG:HB2	43:BV:94:ASP:CG	2.11	0.70
45:BX:42:VAL:HG23	45:BX:61:ILE:HG12	1.74	0.70
24:BA:1508:A:H3'	24:BA:1510:A:C8	2.27	0.70
6:AG:159:ARG:O	6:AG:160:GLN:C	2.30	0.70
1:AA:1144:G:N2	1:AA:1146:A:N6	2.39	0.69
1:AA:1502:A:H5''	1:AA:1503:A:OP2	1.92	0.69
1:AA:153:C:H2'	1:AA:154:C:C6	2.27	0.69
1:AA:287:U:H2'	1:AA:288:A:H5'	1.74	0.69
1:AA:453:A:N6	1:AA:480:U:N3	2.40	0.69
4:AE:115:LEU:HD13	4:AE:145:LEU:CG	2.21	0.69
6:AG:177:ASP:OD1	6:AG:179:GLU:HB3	1.91	0.69
10:AK:18:ARG:HG3	10:AK:18:ARG:NH1	2.02	0.69
10:AK:51:VAL:HG11	10:AK:60:ARG:NH2	2.07	0.69
11:AL:38:GLN:HA	11:AL:38:GLN:OE1	1.92	0.69
14:AO:56:ALA:HB2	14:AO:70:ILE:HG12	1.73	0.69
18:AS:31:LYS:HB3	18:AS:31:LYS:HZ3	1.54	0.69
21:AV:63:THR:O	21:AV:66:MET:HG2	1.92	0.69
24:BA:1044:G:H1	24:BA:1112:G:HO2'	1.36	0.69
24:BA:1128:A:N3	24:BA:1128:A:H2'	2.07	0.69
24:BA:1292:U:O2'	24:BA:1293:C:H5'	1.91	0.69
24:BA:1473:G:N1	24:BA:1519:G:H1'	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1817:G:H2'	24:BA:1818:U:O4'	1.92	0.69
24:BA:2021:C:H5'	24:BA:2022:U:H5	1.55	0.69
24:BA:2059:A:N1	24:BA:2503:A:C6	2.60	0.69
24:BA:2423:U:O2'	24:BA:2425:A:H3'	1.91	0.69
24:BA:1966:A:N3	24:BA:2593:U:C5'	2.53	0.69
24:BA:221:A:N7	24:BA:266:G:C6	2.60	0.69
24:BA:38:A:H2'	24:BA:39:C:C6	2.27	0.69
24:BA:573:G:H5'	24:BA:576:U:O4	1.91	0.69
24:BA:613:U:O5'	24:BA:615:G:H1'	1.92	0.69
24:BA:619:G:H3'	24:BA:619:G:C8	2.27	0.69
24:BA:792:G:C5	24:BA:2440:C:C2	2.79	0.69
24:BA:823:G:H3'	24:BA:824:A:H8	1.57	0.69
27:BD:231:HIS:O	27:BD:232:PRO:C	2.29	0.69
24:BA:2680:C:OP1	28:BE:190:GLY:HA2	1.91	0.69
30:BG:141:PHE:HE2	30:BG:145:THR:HA	1.54	0.69
30:BG:37:VAL:O	30:BG:99:MET:SD	2.49	0.69
31:BH:70:THR:O	31:BH:73:ALA:HB3	1.92	0.69
33:BL:56:GLU:HB3	33:BL:67:PHE:HD2	1.57	0.69
34:BM:91:LEU:CD2	34:BM:98:VAL:HG21	2.21	0.69
35:BN:68:GLU:CD	35:BN:76:ALA:HB3	2.13	0.69
37:BP:134:ARG:NH2	37:BP:137:TYR:N	2.40	0.69
37:BP:56:ARG:NH2	37:BP:57:HIS:HB2	2.05	0.69
41:BT:105:VAL:O	41:BT:108:GLU:OE1	2.09	0.69
41:BT:74:LEU:HD13	41:BT:78:THR:CG2	2.20	0.69
42:BU:62:LEU:HD22	42:BU:98:GLU:CA	2.21	0.69
43:BV:98:LYS:O	43:BV:98:LYS:NZ	2.19	0.69
37:BP:62:GLY:HA2	46:BY:177:PRO:HA	1.74	0.69
26:BC:104:LEU:HD22	26:BC:127:LEU:HD23	1.74	0.69
24:BA:1504:C:C6	24:BA:1504:C:O5'	2.45	0.69
43:BV:60:ASN:HD21	43:BV:61:ASN:ND2	1.89	0.69
24:BA:1887:C:O2'	24:BA:2190:G:O2'	2.10	0.69
1:AA:219:C:H2'	1:AA:220:G:O4'	1.91	0.69
24:BA:164:U:H2'	24:BA:164:U:O2	1.91	0.69
2:A1:36:U:C4'	2:A1:37:U:OP2	2.40	0.69
1:AA:1067:A:H2	1:AA:1068:G:N3	1.90	0.69
1:AA:1321:C:C5	1:AA:1322:C:H2'	2.27	0.69
1:AA:1430:C:C2	1:AA:1431:C:H5	2.09	0.69
4:AE:164:VAL:HG12	4:AE:186:ALA:CB	2.21	0.69
4:AE:192:SER:O	4:AE:194:PRO:HD3	1.92	0.69
5:AF:91:LEU:HD23	5:AF:91:LEU:C	2.13	0.69
6:AG:74:GLN:HA	6:AG:77:ASN:ND2	1.99	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:122:HIS:O	9:AJ:125:MET:CG	2.38	0.69
9:AJ:103:TRP:HH2	9:AJ:138:LYS:HA	1.49	0.69
10:AK:94:TYR:HE1	10:AK:132:GLU:OE1	1.74	0.69
10:AK:19:VAL:HB	10:AK:21:LYS:HG2	1.74	0.69
10:AK:36:LEU:HA	10:AK:39:LEU:HB2	1.73	0.69
10:AK:48:TYR:CB	10:AK:61:VAL:HG22	2.22	0.69
10:AK:68:ARG:CZ	10:AK:74:PRO:HB3	2.21	0.69
11:AL:8:GLY:HA3	11:AL:76:ALA:O	1.92	0.69
12:AM:84:GLN:HA	12:AM:88:LEU:HD12	1.73	0.69
17:AR:34:LEU:HG	17:AR:35:ARG:N	2.06	0.69
22:AW:56:MET:CG	22:AW:88:VAL:HG21	2.21	0.69
49:B2:5:LYS:HZ2	49:B2:59:VAL:HG22	1.57	0.69
50:B3:31:ILE:CD1	50:B3:31:ILE:H	2.05	0.69
24:BA:2815:C:O2'	51:B4:42:PRO:CB	2.40	0.69
53:B6:27:GLY:O	53:B6:31:LEU:HG	1.91	0.69
24:BA:1012:U:O4	34:BM:25:ARG:CB	2.33	0.69
24:BA:1375:C:C2	24:BA:1376:C:C5	2.80	0.69
24:BA:1632:A:C2	24:BA:1633:G:N2	2.60	0.69
24:BA:1690:A:C2	24:BA:1691:C:C1'	2.75	0.69
24:BA:1779:U:O5'	24:BA:1779:U:H6	1.75	0.69
24:BA:1878:G:H2'	24:BA:1879:C:H6	1.56	0.69
24:BA:2194:G:C2	24:BA:2195:C:N4	2.60	0.69
24:BA:2246:G:N2	24:BA:2247:A:C5	2.60	0.69
24:BA:2305:A:C8	24:BA:2306:C:C5'	2.73	0.69
24:BA:2459:A:C4	24:BA:2460:U:H1'	2.27	0.69
24:BA:586:A:H2	24:BA:809:G:N2	1.90	0.69
24:BA:731:C:O2'	24:BA:732:C:H5'	1.92	0.69
24:BA:695:G:C6	24:BA:768:G:O6	2.46	0.69
24:BA:835:A:H4'	24:BA:2358:G:H1'	1.73	0.69
24:BA:877:U:H6	24:BA:877:U:O5'	1.75	0.69
24:BA:911:A:H8	24:BA:2264:C:C1'	1.95	0.69
27:BD:119:ALA:HA	27:BD:123:ALA:HB2	1.73	0.69
27:BD:234:GLY:HA3	27:BD:241:PRO:HG3	1.74	0.69
28:BE:30:PRO:CA	28:BE:49:LEU:O	2.39	0.69
29:BF:185:ASP:O	29:BF:189:THR:HG23	1.91	0.69
30:BG:39:ILE:CD1	30:BG:92:VAL:HG12	2.22	0.69
32:BK:5:LEU:CD1	32:BK:17:GLN:HB2	2.21	0.69
35:BN:103:ALA:HB1	35:BN:107:ARG:NE	2.07	0.69
35:BN:6:THR:O	35:BN:20:MET:CA	2.25	0.69
24:BA:672:C:OP2	36:BO:38:GLN:HG2	1.92	0.69
38:BQ:17:ARG:HG3	38:BQ:18:LEU:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:114:LYS:CG	41:BT:115:ALA:N	2.54	0.69
42:BU:15:GLU:HA	42:BU:100:ARG:NH1	2.07	0.69
24:BA:1312:U:H5	44:BW:62:LYS:HG3	1.56	0.69
45:BX:33:LYS:HB3	45:BX:35:TYR:CE2	2.27	0.69
3:AD:20:U:O2	3:AD:20:U:H2'	1.90	0.69
24:BA:2126:A:H1'	24:BA:2162:G:N2	2.07	0.69
24:BA:1487:G:N2	24:BA:1503:U:C2	2.60	0.69
24:BA:1488:G:C3'	24:BA:1489:U:H5'	2.21	0.69
39:BR:54:LEU:HG	39:BR:56:LEU:HD22	1.74	0.69
1:AA:489:C:H2'	1:AA:490:G:C8	2.26	0.69
1:AA:1186:G:N2	16:AQ:61:TRP:O	2.25	0.69
1:AA:129(A):G:H4'	1:AA:130:A:C5'	2.22	0.69
1:AA:16:A:C1'	7:AH:17:ALA:HB3	2.22	0.69
1:AA:623:C:O2'	1:AA:624:C:H5'	1.91	0.69
1:AA:865:A:H5'	1:AA:1078:U:C4	2.27	0.69
3:AC:46:G:H5'	3:AC:47:U:OP2	1.92	0.69
3:AC:74:C:N4	47:BZ:4:LYS:HZ2	1.90	0.69
3:AD:75:C:H5''	3:AD:76:A:O2'	1.91	0.69
4:AE:168:THR:CG2	4:AE:192:SER:HA	2.22	0.69
4:AE:102:LEU:HB3	4:AE:180:LEU:CD1	2.22	0.69
5:AF:138:VAL:HG22	5:AF:151:VAL:CG2	2.22	0.69
6:AG:121:VAL:O	6:AG:134:ASP:HB2	1.93	0.69
6:AG:78:LEU:HD21	6:AG:96:LEU:HD22	1.73	0.69
9:AJ:63:LYS:CA	9:AJ:63:LYS:HE2	2.21	0.69
10:AK:112:LEU:HD21	10:AK:114:THR:CG2	2.22	0.69
13:AN:32:ILE:HD12	13:AN:41:THR:OG1	1.91	0.69
15:AP:8:GLU:CG	15:AP:22:ILE:HG12	2.21	0.69
17:AR:34:LEU:CG	17:AR:35:ARG:N	2.55	0.69
19:AT:5:VAL:CG2	19:AT:60:ILE:HA	2.11	0.69
19:AT:7:THR:HG21	19:AT:56:VAL:HG12	1.73	0.69
20:AU:46:GLU:H	20:AU:49:LYS:HZ1	1.37	0.69
22:AW:48:LYS:HB3	22:AW:51:GLU:CG	2.22	0.69
50:B3:10:VAL:N	50:B3:11:PRO:CD	2.55	0.69
50:B3:31:ILE:O	50:B3:32:TYR:HB3	1.93	0.69
24:BA:1166:C:H2'	24:BA:1167:U:H6	1.56	0.69
24:BA:145:G:H2'	24:BA:146:G:C8	2.27	0.69
24:BA:1568:G:OP1	27:BD:61:LEU:CB	2.34	0.69
24:BA:1770:G:H2'	24:BA:1771:C:H6	1.57	0.69
24:BA:1839:G:O6	24:BA:1927:A:C2	2.45	0.69
24:BA:1948:G:O2'	24:BA:1949:G:H5'	1.93	0.69
24:BA:194:G:H2'	24:BA:195:A:C8	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:213:A:H2'	24:BA:214:G:H5'	1.73	0.69
24:BA:2228:G:N7	24:BA:2229:C:C5	2.61	0.69
24:BA:2291:U:H2'	24:BA:2292:C:C6	2.28	0.69
24:BA:2384:G:H3'	24:BA:2385:C:O3'	1.93	0.69
24:BA:2416:C:H6	24:BA:2416:C:O5'	1.75	0.69
24:BA:281:G:N2	24:BA:283:A:C5'	2.54	0.69
25:BB:43:C:N3	25:BB:45:A:C8	2.60	0.69
24:BA:728:G:O3'	27:BD:13:ARG:NH2	2.25	0.69
27:BD:182:LEU:HD12	27:BD:270:ILE:HD11	1.72	0.69
24:BA:1789:A:C4'	27:BD:222:ARG:CZ	2.71	0.69
27:BD:246:PRO:O	27:BD:250:TRP:HB2	1.92	0.69
24:BA:2572:A:C2	28:BE:144:ARG:NH1	2.61	0.69
29:BF:9:ILE:CG1	29:BF:122:LYS:HG3	2.22	0.69
30:BG:20:ILE:HG21	30:BG:28:VAL:HG13	1.72	0.69
31:BH:139:GLN:HG3	31:BH:140:LYS:N	2.07	0.69
24:BA:1139:G:P	34:BM:63:THR:HG21	2.32	0.69
35:BN:68:GLU:HG2	35:BN:76:ALA:O	1.92	0.69
37:BP:66:ILE:N	37:BP:105:GLU:OE2	2.25	0.69
40:BS:55:ASN:ND2	40:BS:57:PHE:CZ	2.60	0.69
41:BT:97:ASP:CB	41:BT:101:ARG:HH21	2.05	0.69
43:BV:16:LYS:NZ	43:BV:16:LYS:N	2.37	0.69
43:BV:90:ARG:N	43:BV:90:ARG:HH21	1.89	0.69
45:BX:107:ASP:O	45:BX:109:GLU:N	2.25	0.69
32:BK:132:PRO:HG3	32:BK:138:ILE:HB	1.74	0.69
6:AG:47:ARG:CZ	6:AG:47:ARG:HB2	2.22	0.69
1:AA:336:C:H2'	1:AA:337:C:H6	1.57	0.69
24:BA:363(A):A:H2'	24:BA:363(A):A:N3	2.06	0.69
1:AA:1428:A:H2'	1:AA:1429:C:H6	1.53	0.69
1:AA:317:G:OP1	1:AA:353:A:N6	2.25	0.69
1:AA:109:A:C2	1:AA:327:A:N1	2.60	0.69
1:AA:684:A:H2	1:AA:706:A:H61	1.40	0.69
4:AE:15:VAL:HG21	4:AE:209:ARG:HB3	1.75	0.69
6:AG:128:VAL:HG21	6:AG:133:VAL:HB	1.75	0.69
6:AG:166:LYS:NZ	6:AG:178:VAL:O	2.21	0.69
6:AG:31:CYS:O	6:AG:33:MET:N	2.24	0.69
7:AH:94:ALA:HB2	7:AH:119:LEU:HD21	1.73	0.69
8:AI:89:MET:HE2	20:AU:76:LEU:HD21	1.75	0.69
10:AK:9:MET:O	10:AK:13:ILE:HG13	1.93	0.69
13:AN:102:GLY:C	13:AN:104:GLN:H	1.95	0.69
10:AK:91:ARG:HG3	14:AO:7:ILE:HD12	1.74	0.69
17:AR:53:HIS:C	17:AR:57:LEU:HD13	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:48:THR:HA	21:AV:60:VAL:O	1.92	0.69
50:B3:63:TYR:O	50:B3:66:SER:HB2	1.92	0.69
51:B4:11:THR:HG23	51:B4:15:ARG:HB3	1.73	0.69
54:B7:6:THR:O	54:B7:6:THR:HG23	1.92	0.69
24:BA:1000:A:N7	24:BA:1001:A:C6	2.60	0.69
24:BA:1068:G:H4'	24:BA:1096:A:O2'	1.93	0.69
24:BA:1568:G:HO2'	24:BA:1569:A:P	2.16	0.69
24:BA:1618:A:OP1	24:BA:1618:A:H8	1.76	0.69
24:BA:1955:U:C2'	24:BA:1956:U:OP1	2.40	0.69
24:BA:1995:U:H5''	24:BA:1996:C:H5''	1.75	0.69
24:BA:1996:C:C2'	28:BE:123:ALA:HB3	2.22	0.69
24:BA:2448:A:P	24:BA:2499:C:OP2	2.50	0.69
24:BA:2647:U:O2'	24:BA:2648:C:H5'	1.92	0.69
24:BA:300:A:O2'	24:BA:318:C:H1'	1.92	0.69
24:BA:585:G:C6	24:BA:1251:C:C5	2.81	0.69
24:BA:665:C:OP2	24:BA:665:C:H6	1.76	0.69
24:BA:727:A:C6	24:BA:729:G:O6	2.45	0.69
25:BB:23:G:H2'	25:BB:24:G:C8	2.27	0.69
25:BB:77:U:H2'	25:BB:78:A:H8	1.56	0.69
27:BD:132:PRO:HD3	27:BD:190:TYR:OH	1.93	0.69
27:BD:17:THR:C	27:BD:19:ALA:H	1.96	0.69
28:BE:14:ILE:HA	28:BE:19:ARG:HA	1.73	0.69
28:BE:202:LYS:C	28:BE:204:ALA:H	1.94	0.69
28:BE:32:PRO:HB2	28:BE:35:GLN:HE22	1.56	0.69
30:BG:124:SER:OG	30:BG:133:LEU:HD23	1.93	0.69
30:BG:68:PRO:HG3	30:BG:72:ARG:HH12	1.55	0.69
31:BH:45:VAL:HG22	31:BH:50:VAL:CG1	2.21	0.69
33:BL:40:ALA:HB2	33:BL:65:PHE:CE1	2.28	0.69
33:BL:39:LYS:HG2	33:BL:42:ASN:HD22	1.57	0.69
33:BL:68:VAL:HB	33:BL:70:LYS:HE3	1.75	0.69
24:BA:1007:C:O2'	34:BM:108:PRO:HB3	1.92	0.69
36:BO:108:LYS:CD	36:BO:109:GLY:H	2.05	0.69
39:BR:26:LEU:HD21	39:BR:37:ALA:CB	2.22	0.69
40:BS:24:PRO:O	40:BS:25:GLY:O	2.10	0.69
35:BN:76:ALA:CA	40:BS:77:PRO:HD2	2.18	0.69
41:BT:27:LEU:O	41:BT:31:SER:CB	2.39	0.69
43:BV:13:SER:O	43:BV:16:LYS:NZ	2.23	0.69
45:BX:9:LYS:HB2	45:BX:110:GLU:OE2	1.92	0.69
46:BY:102:LEU:HD22	46:BY:137:ILE:HB	1.72	0.69
46:BY:7:ALA:HB2	46:BY:38:TYR:CG	2.27	0.69
24:BA:2355:C:H1'	47:BZ:39:ARG:HH21	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:59:LEU:HD13	47:BZ:79:VAL:HG11	1.74	0.69
24:BA:2126:A:H1'	24:BA:2162:G:H21	1.56	0.69
24:BA:2172:U:O2'	24:BA:2173:A:OP1	2.10	0.69
26:BC:47:LEU:HD12	26:BC:208:PHE:CZ	2.26	0.69
24:BA:2670:A:H5''	28:BE:206:LYS:HZ3	1.56	0.69
1:AA:414:A:H2'	1:AA:415:A:C8	2.24	0.69
1:AA:465:A:N7	1:AA:467:G:C2	2.60	0.69
1:AA:663:A:N6	1:AA:742:G:O6	2.18	0.69
1:AA:803:G:O2'	1:AA:804:U:H5'	1.91	0.69
4:AE:187:LEU:HD22	4:AE:201:ILE:O	1.92	0.69
4:AE:222:ILE:HD12	4:AE:223:ILE:HG13	1.74	0.69
4:AE:223:ILE:HG21	4:AE:229:VAL:HA	1.73	0.69
6:AG:152:SER:O	6:AG:158:ILE:HG13	1.91	0.69
8:AI:76:ALA:CB	8:AI:80:ARG:NH2	2.55	0.69
2:A1:36:U:H1'	9:AJ:82:GLY:HA2	1.73	0.69
10:AK:107:LEU:N	10:AK:107:LEU:HD23	2.08	0.69
10:AK:70:GLN:HE21	10:AK:70:GLN:CA	2.04	0.69
11:AL:37:PHE:N	11:AL:37:PHE:HD2	1.90	0.69
12:AM:10:GLY:HA3	12:AM:16:LEU:HD21	1.75	0.69
14:AO:82:VAL:O	14:AO:106:ASP:HB2	1.91	0.69
15:AP:2:ALA:HB3	15:AP:4:ILE:HD11	1.74	0.69
15:AP:91:ARG:HB2	15:AP:98:VAL:HG13	1.74	0.69
18:AS:74:LEU:HD22	18:AS:79:VAL:HG21	1.73	0.69
20:AU:26:LEU:HG	20:AU:27:GLY:O	1.92	0.69
22:AW:23:ARG:CA	22:AW:26:ASN:OD1	2.40	0.69
22:AW:42:GLN:O	22:AW:45:GLN:HB2	1.92	0.69
48:B1:63:ARG:O	48:B1:66:ASN:HB3	1.93	0.69
53:B6:22:MET:O	53:B6:28:ARG:HG2	1.93	0.69
24:BA:1212:G:O2'	24:BA:1213:A:H8	1.74	0.69
24:BA:1263:U:H4'	51:B4:10:LYS:CG	2.21	0.69
24:BA:1345:C:OP1	24:BA:1385:G:H5''	1.92	0.69
24:BA:149:A:N7	24:BA:150:C:C2	2.60	0.69
24:BA:1748:G:H2'	24:BA:1749:A:C8	2.27	0.69
24:BA:1788:C:N4	24:BA:1789:A:C8	2.59	0.69
24:BA:1853:A:H2'	24:BA:1854:A:C8	2.27	0.69
24:BA:1903:G:H2'	24:BA:1904:G:C8	2.24	0.69
24:BA:1935:G:H2'	24:BA:1962:C:N3	2.07	0.69
24:BA:2096:U:H2'	24:BA:2097:C:H5	1.57	0.69
24:BA:2466:C:H2'	24:BA:2467:C:H6	1.56	0.69
24:BA:2584:U:H3'	24:BA:2584:U:H6	1.57	0.69
24:BA:418:G:O2'	24:BA:419:C:H5'	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:530:G:O2'	24:BA:531:C:P	2.50	0.69
24:BA:621:A:N7	24:BA:622:G:O4'	2.25	0.69
24:BA:988:A:H3'	49:B2:10:LYS:NZ	2.06	0.69
25:BB:14:U:H1'	25:BB:107:U:C1'	2.22	0.69
27:BD:65:ILE:HD12	27:BD:104:TYR:HB3	1.74	0.69
27:BD:176:ARG:HB2	27:BD:182:LEU:HD21	1.75	0.69
28:BE:176:ILE:HG23	28:BE:176:ILE:O	1.92	0.69
30:BG:139:LEU:HD13	30:BG:142:PRO:CA	2.23	0.69
30:BG:45:GLU:C	30:BG:47:LYS:H	1.94	0.69
35:BN:10:VAL:HG12	35:BN:17:ARG:CA	2.22	0.69
35:BN:89:ASN:HD22	35:BN:91:LEU:HB2	1.58	0.69
36:BO:78:PRO:HG2	36:BO:117:GLU:OE2	1.93	0.69
24:BA:663:G:C5'	36:BO:18:ARG:HB3	2.17	0.69
38:BQ:94:TYR:C	38:BQ:117:VAL:HG12	2.13	0.69
38:BQ:11:ASN:ND2	38:BQ:12:ARG:H	1.90	0.69
38:BQ:46:GLY:O	38:BQ:49:ASP:CB	2.40	0.69
38:BQ:58:GLY:HA2	38:BQ:80:PHE:CZ	2.27	0.69
40:BS:109:GLU:O	40:BS:113:LYS:HB2	1.92	0.69
43:BV:11:ARG:HH21	43:BV:11:ARG:HB3	1.57	0.69
46:BY:9:TYR:CB	46:BY:14:LYS:HG2	2.22	0.69
46:BY:158:PRO:HB2	46:BY:159:PRO:CD	2.23	0.69
46:BY:18:LEU:HD11	46:BY:38:TYR:CD1	2.27	0.69
46:BY:53:ILE:HG12	46:BY:58:VAL:CG2	2.22	0.69
32:BK:108:THR:O	32:BK:109:ILE:HD12	1.92	0.69
32:BK:87:LYS:HD3	32:BK:121:LYS:HE2	1.75	0.69
26:BC:59:ARG:NH1	26:BC:164:ARG:HG2	2.07	0.69
1:AA:344:A:H5''	1:AA:345:C:C5	2.26	0.69
14:AO:126:LYS:HZ2	14:AO:128:ALA:H	1.38	0.69
1:AA:1289:A:O2'	1:AA:1290:G:H5'	1.92	0.69
1:AA:129(A):G:H3'	1:AA:129(A):G:C8	2.27	0.69
1:AA:1322:C:H5''	1:AA:1323:G:OP1	1.93	0.69
1:AA:1464:G:C2'	1:AA:1465:C:C5	2.72	0.69
1:AA:61:G:C5	1:AA:62:U:C4	2.80	0.69
1:AA:892:A:HO2'	1:AA:1415:G:HO2'	1.39	0.69
1:AA:953:G:O2'	15:AP:125:ARG:CA	2.34	0.69
3:AC:75:C:C6	3:AC:76:A:H4'	2.26	0.69
4:AE:174:VAL:C	4:AE:178:ARG:HG2	2.13	0.69
4:AE:19:HIS:CE1	4:AE:204:ASN:HD21	2.11	0.69
4:AE:212:GLN:O	4:AE:216:SER:CB	2.41	0.69
9:AJ:38:LEU:HD12	9:AJ:41:ARG:HD3	1.75	0.69
9:AJ:74:GLU:HA	9:AJ:145:ALA:CB	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:10:LEU:HD22	10:AK:135:CYS:SG	2.33	0.69
1:AA:1229:A:OP1	15:AP:116:THR:HG22	1.93	0.69
15:AP:14:ARG:H	15:AP:44:ARG:NE	1.90	0.69
16:AQ:42:ILE:O	16:AQ:43:CYS:C	2.30	0.69
17:AR:53:HIS:O	17:AR:56:LEU:HB3	1.92	0.69
1:AA:580:U:H4'	17:AR:58:MET:HG2	1.73	0.69
18:AS:39:TYR:CD1	18:AS:40:ASP:N	2.61	0.69
49:B2:7:LYS:HA	49:B2:33:GLN:O	1.93	0.69
50:B3:32:TYR:O	50:B3:33:VAL:HG23	1.93	0.69
52:B5:30:THR:O	52:B5:32:ASN:N	2.24	0.69
55:B8:20:HIS:HB2	55:B8:22:ARG:CG	2.16	0.69
24:BA:1936:A:C1'	24:BA:1940:U:C4	2.75	0.69
24:BA:2097:C:N4	24:BA:2193:G:O6	2.26	0.69
24:BA:2226:C:O2	24:BA:2227:A:O4'	2.10	0.69
24:BA:2287:A:C8	24:BA:2289:G:N7	2.60	0.69
24:BA:2521:C:C2	24:BA:2522:U:C6	2.81	0.69
24:BA:2550:G:H2'	24:BA:2551:C:C6	2.26	0.69
24:BA:332:A:H4'	24:BA:333:G:OP1	1.90	0.69
24:BA:457:A:H1'	24:BA:459:U:H3	1.55	0.69
24:BA:594:U:C4	24:BA:595:C:N4	2.60	0.69
24:BA:751:A:N7	24:BA:789:A:C6	2.61	0.69
24:BA:810:U:OP1	24:BA:1253:A:N7	2.26	0.69
24:BA:950:G:H2'	24:BA:951:C:H6	1.56	0.69
25:BB:83:G:N2	25:BB:84:C:C2	2.60	0.69
27:BD:85:ASP:C	27:BD:87:ASN:H	1.93	0.69
28:BE:178:GLU:N	28:BE:178:GLU:OE1	2.22	0.69
28:BE:80:GLU:OE1	28:BE:80:GLU:N	2.26	0.69
30:BG:174:GLU:OE2	30:BG:175:LEU:HG	1.93	0.69
30:BG:75:LYS:NZ	30:BG:85:GLY:HA3	2.08	0.69
31:BH:13:LYS:HG3	31:BH:15:VAL:H	1.57	0.69
32:BK:5:LEU:HA	32:BK:36:ALA:CB	2.22	0.69
33:BL:89:HIS:O	33:BL:90:LYS:HG3	1.92	0.69
36:BO:122:PRO:HA	36:BO:134:ALA:HA	1.74	0.69
39:BR:73:LEU:HA	39:BR:76:LYS:HD2	1.75	0.69
39:BR:17:ARG:NE	39:BR:89:ARG:HB2	2.07	0.69
39:BR:9:ARG:NH1	39:BR:9:ARG:H	1.89	0.69
42:BU:78:LYS:CB	42:BU:84:LYS:HB3	2.23	0.69
43:BV:13:SER:HB3	43:BV:16:LYS:HE2	1.75	0.69
46:BY:48:PHE:CE2	46:BY:86:VAL:HG11	2.27	0.69
26:BC:163:PHE:HA	26:BC:171:ILE:HD11	1.73	0.69
26:BC:82:LYS:CD	26:BC:116:THR:HG21	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2191:G:N2	24:BA:2192:G:N3	2.40	0.69
1:AA:306:G:O2'	1:AA:307:C:H5'	1.92	0.69
1:AA:679:C:H2'	1:AA:680:C:H6	1.56	0.69
1:AA:716:A:H1'	13:AN:118:GLY:CA	2.18	0.69
1:AA:720:C:H6	1:AA:720:C:O5'	1.76	0.69
1:AA:750:G:O4'	17:AR:22:THR:OG1	2.11	0.69
1:AA:654:G:C2	1:AA:753:A:H1'	2.27	0.69
4:AE:35:GLU:O	4:AE:36:ARG:CZ	2.40	0.69
4:AE:60:ASP:HB3	4:AE:64:ARG:NH1	2.07	0.69
5:AF:59:ARG:NH2	5:AF:64:VAL:HG13	2.07	0.69
6:AG:118:ARG:HG3	6:AG:118:ARG:HH21	1.57	0.69
7:AH:11:ILE:HD12	7:AH:104:ALA:HB1	1.75	0.69
7:AH:105:VAL:CG2	7:AH:132:ALA:HB2	2.22	0.69
7:AH:26:PHE:CD1	7:AH:26:PHE:N	2.60	0.69
10:AK:17:THR:CG2	10:AK:18:ARG:NH2	2.55	0.69
13:AN:85:ARG:HE	13:AN:111:ASP:HB3	1.55	0.69
18:AS:39:TYR:OH	18:AS:41:PRO:HG3	1.93	0.69
1:AA:277:C:C5'	19:AT:68:ARG:HH12	2.06	0.69
19:AT:5:VAL:CG1	19:AT:6:LEU:N	2.56	0.69
48:B1:33:GLN:HB3	48:B1:41:GLN:OE1	1.92	0.69
24:BA:1158:C:H5'	49:B2:31:LEU:CB	2.23	0.69
50:B3:66:SER:HA	50:B3:69:LYS:CD	2.15	0.69
51:B4:13:LYS:HB3	51:B4:16:ARG:NH1	2.08	0.69
24:BA:1529:A:H8	24:BA:1530:G:C8	2.11	0.69
24:BA:1613:G:N2	24:BA:1619:G:C4	2.60	0.69
24:BA:2011:U:H2'	24:BA:2012:G:O4'	1.92	0.69
24:BA:411:G:O4'	24:BA:2407:G:P	2.50	0.69
24:BA:241:A:C2'	24:BA:242:G:H4'	2.22	0.69
24:BA:2556:C:O2'	24:BA:2557:G:H5'	1.92	0.69
24:BA:2674:G:H2'	24:BA:2675:A:H8	1.57	0.69
24:BA:2704:C:H2'	24:BA:2705:A:C8	2.28	0.69
24:BA:284:U:H6	24:BA:284:U:OP2	1.76	0.69
24:BA:532:A:H8	24:BA:533:G:H1'	1.57	0.69
24:BA:590:A:H2'	24:BA:591:C:O4'	1.93	0.69
24:BA:740:U:O4	24:BA:757:U:O2	2.10	0.69
27:BD:12:SER:HA	27:BD:22:SER:O	1.91	0.69
27:BD:178:PRO:HG2	27:BD:179:SER:H	1.58	0.69
27:BD:252:TRP:N	27:BD:255:LYS:NZ	2.41	0.69
28:BE:105:THR:HG23	28:BE:197:ILE:CD1	2.23	0.69
29:BF:205:ARG:O	29:BF:208:GLY:N	2.26	0.69
29:BF:41:LEU:O	29:BF:44:ARG:CG	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:675:A:H5''	29:BF:67:GLN:CD	2.12	0.69
33:BL:19:PRO:HB2	33:BL:22:PRO:CG	2.23	0.69
24:BA:1076:C:O2'	33:BL:90:LYS:HB3	1.93	0.69
34:BM:29:LYS:O	34:BM:31:ALA:N	2.26	0.69
35:BN:107:ARG:O	35:BN:109:LYS:HG3	1.93	0.69
35:BN:47:ILE:HD12	35:BN:52:VAL:CG2	2.21	0.69
36:BO:122:PRO:HG3	36:BO:137:LYS:O	1.91	0.69
36:BO:129:ALA:C	36:BO:130:PHE:HD2	1.94	0.69
38:BQ:96:ARG:HG2	38:BQ:98:LEU:CD1	2.23	0.69
39:BR:14:VAL:C	39:BR:18:ILE:HD13	2.13	0.69
35:BN:77:ILE:HD13	40:BS:65:LYS:NZ	2.08	0.69
41:BT:48:ALA:HA	41:BT:51:LYS:HD2	1.75	0.69
42:BU:18:LEU:CD2	42:BU:18:LEU:H	2.05	0.69
43:BV:14:PRO:C	43:BV:16:LYS:NZ	2.46	0.69
45:BX:35:TYR:HE1	45:BX:65:ALA:O	1.76	0.69
46:BY:104:PHE:CZ	46:BY:171:ILE:HD11	2.27	0.69
46:BY:10:ARG:HB3	46:BY:36:LYS:CD	2.19	0.69
26:BC:108:MET:HE3	26:BC:131:LEU:HA	1.75	0.69
1:AA:1102:A:C6	1:AA:1103:C:N4	2.60	0.69
1:AA:1129:C:H1'	1:AA:1130:A:N7	2.06	0.69
1:AA:370:C:C2	1:AA:371:G:C8	2.81	0.69
4:AE:60:ASP:O	4:AE:63:MET:HB3	1.93	0.69
5:AF:118:GLN:O	5:AF:122:GLU:HG3	1.93	0.69
6:AG:34:GLU:O	6:AG:35:ARG:HB2	1.92	0.69
7:AH:102:ALA:HB3	7:AH:106:PRO:HB2	1.75	0.69
7:AH:103:GLY:O	7:AH:106:PRO:HD2	1.92	0.69
7:AH:150:ARG:HD3	7:AH:150:ARG:O	1.92	0.69
7:AH:45:PHE:CE1	7:AH:47:LYS:HD2	2.27	0.69
9:AJ:78:ARG:HE	9:AJ:80:VAL:HG23	1.57	0.69
10:AK:32:LYS:O	10:AK:36:LEU:HD23	1.92	0.69
14:AO:88:GLY:HA3	14:AO:99:HIS:CE1	2.27	0.69
16:AQ:40:CYS:N	16:AQ:43:CYS:SG	2.59	0.69
16:AQ:55:GLY:O	16:AQ:56:VAL:C	2.31	0.69
18:AS:28:ARG:HG3	18:AS:29:ASP:OD2	1.92	0.69
19:AT:29:HIS:CE1	19:AT:30:PRO:HG2	2.27	0.69
19:AT:4:LYS:O	19:AT:5:VAL:HG23	1.93	0.69
19:AT:88:TYR:HA	19:AT:91:ARG:NE	2.08	0.69
8:AI:99:ALA:CB	20:AU:31:LEU:HD11	2.22	0.69
21:AV:12:ASP:O	21:AV:16:LEU:HD13	1.93	0.69
22:AW:63:ILE:O	22:AW:66:ALA:HB3	1.92	0.69
24:BA:95:G:O2'	48:B1:42:ASN:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:42:ASN:O	48:B1:45:ILE:HG13	1.93	0.69
53:B6:24:THR:O	53:B6:28:ARG:HG3	1.93	0.69
24:BA:1309:G:H2'	24:BA:1310:G:C5'	2.23	0.69
24:BA:142:G:H2'	24:BA:143:C:C6	2.28	0.69
24:BA:1470:G:H3'	24:BA:1470:G:H8	1.58	0.69
24:BA:1498:C:H1'	24:BA:1576:U:C4'	2.23	0.69
24:BA:1731:G:H22	24:BA:1733:G:N2	1.91	0.69
24:BA:197:A:H61	24:BA:248:G:N2	1.88	0.69
24:BA:2067:G:N2	24:BA:2069:G:H1'	2.08	0.69
24:BA:2472:G:H8	24:BA:2472:G:O5'	1.75	0.69
24:BA:2615:U:H2'	24:BA:2616:C:H6	1.58	0.69
24:BA:527:C:O4'	24:BA:2779:U:C4	2.46	0.69
24:BA:284:U:C6	24:BA:284:U:OP2	2.45	0.69
24:BA:297:C:H2'	24:BA:298:G:O4'	1.93	0.69
24:BA:503:A:H4'	24:BA:504:U:H5''	1.75	0.69
24:BA:748:G:H3'	24:BA:750:A:OP2	1.93	0.69
27:BD:106:ILE:O	27:BD:107:ALA:HB2	1.93	0.69
27:BD:239:ARG:HD2	27:BD:239:ARG:N	2.07	0.69
28:BE:46:ALA:HB2	28:BE:85:ASN:HD21	1.57	0.69
30:BG:103:LEU:HD21	30:BG:176:LEU:CD1	2.23	0.69
30:BG:39:ILE:HG13	30:BG:157:ILE:CD1	2.21	0.69
30:BG:4:ASP:HA	30:BG:7:LEU:HB2	1.75	0.69
34:BM:18:ALA:HB2	34:BM:54:VAL:CG2	2.22	0.69
35:BN:37:ASP:H	35:BN:61:VAL:CB	2.06	0.69
35:BN:69:VAL:H	35:BN:104:ARG:NH2	1.90	0.69
41:BT:74:LEU:CD2	41:BT:78:THR:HG21	2.21	0.69
42:BU:62:LEU:HD11	42:BU:96:ILE:HD13	1.75	0.69
43:BV:73:ALA:O	43:BV:106:ILE:HG22	1.92	0.69
44:BW:66:LEU:O	44:BW:66:LEU:HD12	1.93	0.69
46:BY:157:LEU:HD13	46:BY:161:VAL:CG1	2.21	0.69
47:BZ:40:GLN:HB3	47:BZ:45:PHE:CE1	2.27	0.69
1:AA:60:A:C2	1:AA:107:G:N3	2.60	0.69
1:AA:1200:C:H5''	1:AA:1201:A:C3'	2.22	0.69
1:AA:1308:U:H5''	15:AP:110:ARG:HH22	1.57	0.69
1:AA:1435:G:C2	1:AA:1436:U:C4	2.80	0.69
1:AA:1399:C:H42	1:AA:1504:G:H1	1.41	0.69
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.57	0.69
1:AA:264:U:O2	1:AA:264:U:C2'	2.40	0.69
1:AA:517:G:H5'	1:AA:519:C:N4	2.06	0.69
1:AA:627:G:O2'	1:AA:628:G:H5'	1.93	0.69
3:AB:37:A:OP2	3:AB:38:A:N7	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:15:VAL:HG23	4:AE:16:HIS:CE1	2.28	0.69
4:AE:173:ALA:O	4:AE:176:GLU:HB2	1.93	0.69
4:AE:80:ILE:HD12	4:AE:208:ILE:HG23	1.75	0.69
4:AE:212:GLN:OE1	4:AE:215:LEU:HB3	1.92	0.69
5:AF:110:ASN:HD21	5:AF:140:ARG:HG2	1.56	0.69
1:AA:1298:C:H41	9:AJ:114:ARG:HB3	1.56	0.69
10:AK:26:VAL:HG13	10:AK:27:PRO:N	2.07	0.69
11:AL:16:ARG:NE	11:AL:18:PHE:CZ	2.61	0.69
11:AL:45:ALA:HB3	11:AL:74:ILE:CG2	2.21	0.69
1:AA:564:C:OP1	14:AO:15:ARG:CZ	2.41	0.69
17:AR:75:PRO:O	17:AR:78:TYR:HB3	1.93	0.69
18:AS:51:VAL:HG21	18:AS:73:LEU:CD1	2.22	0.69
19:AT:43:LEU:HD11	19:AT:69:LYS:HG3	1.72	0.69
20:AU:36:ASN:HB3	20:AU:40:LEU:CD2	2.23	0.69
22:AW:23:ARG:HD3	22:AW:24:LEU:N	2.07	0.69
49:B2:15:TYR:N	49:B2:15:TYR:CD1	2.60	0.69
50:B3:17:GLY:HA3	50:B3:33:VAL:O	1.93	0.69
54:B7:1:MET:N	54:B7:2:PRO:HD2	2.08	0.69
54:B7:30:ARG:NH1	54:B7:41:ILE:HG22	2.07	0.69
24:BA:1557:C:H5''	24:BA:1558:A:OP2	1.92	0.69
24:BA:1613:G:H3'	24:BA:1614:A:C5'	2.17	0.69
24:BA:1858:G:H22	24:BA:1884:A:H1'	1.57	0.69
24:BA:2266:A:H5''	24:BA:2267:A:O5'	1.93	0.69
24:BA:270(K):C:H3'	24:BA:270(L):U:H6	1.57	0.69
24:BA:64:A:H2'	24:BA:65:C:C5'	2.23	0.69
24:BA:666:G:H2'	24:BA:667:U:C6	2.27	0.69
24:BA:864:G:H2'	24:BA:865:C:H1'	1.73	0.69
24:BA:877:U:O2'	24:BA:878:A:H5'	1.93	0.69
25:BB:101:A:C2'	25:BB:102:G:H8	1.99	0.69
25:BB:4:C:N3	25:BB:117:G:N2	2.41	0.69
27:BD:119:ALA:CB	27:BD:130:ALA:H	2.05	0.69
28:BE:38:THR:HB	28:BE:39:PRO:HD3	1.75	0.69
28:BE:60:ASN:HA	28:BE:63:LEU:CD1	2.22	0.69
29:BF:186:ILE:HG22	29:BF:187:VAL:N	2.06	0.69
30:BG:125:PHE:CD2	30:BG:130:ASN:N	2.60	0.69
34:BM:18:ALA:HB2	34:BM:54:VAL:HG22	1.75	0.69
34:BM:10:GLU:HB3	34:BM:39:ARG:NH1	2.08	0.69
34:BM:87:LEU:HA	34:BM:90:MET:HG2	1.75	0.69
35:BN:24:VAL:HG21	35:BN:26:LYS:HG2	1.75	0.69
35:BN:70:LYS:HE2	35:BN:104:ARG:CG	2.22	0.69
35:BN:85:VAL:HG12	35:BN:93:PRO:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:6:ARG:HG2	37:BP:7:MET:N	2.08	0.69
38:BQ:50:HIS:NE2	38:BQ:54:LEU:HD11	2.08	0.69
40:BS:29:ARG:HG2	40:BS:51:ARG:CG	2.20	0.69
40:BS:34:VAL:HG21	40:BS:36:GLU:OE2	1.93	0.69
41:BT:25:TRP:CE3	41:BT:26:GLY:N	2.61	0.69
41:BT:27:LEU:C	41:BT:29:SER:H	1.96	0.69
41:BT:50:ARG:NE	42:BU:75:PHE:CE2	2.56	0.69
41:BT:63:VAL:O	41:BT:64:ARG:C	2.30	0.69
41:BT:81:HIS:C	41:BT:117:GLN:NE2	2.46	0.69
42:BU:4:ILE:HA	42:BU:12:TYR:CD2	2.26	0.69
42:BU:18:LEU:HD12	42:BU:66:ARG:NH1	2.06	0.69
42:BU:62:LEU:CD2	42:BU:98:GLU:HA	2.21	0.69
44:BW:7:VAL:O	44:BW:8:ILE:HG23	1.92	0.69
44:BW:47:PHE:HZ	44:BW:92:LEU:HD11	1.57	0.69
46:BY:31:ARG:N	46:BY:89:PHE:CE2	2.59	0.69
32:BK:98:ALA:HA	32:BK:101:LEU:HD21	1.73	0.69
32:BK:70:LYS:HA	32:BK:70:LYS:NZ	2.08	0.69
26:BC:76:ALA:HB2	26:BC:153:ILE:HD12	1.74	0.69
24:BA:2123:G:O2'	26:BC:172:HIS:HB2	1.93	0.69
26:BC:43:VAL:CG2	26:BC:214:VAL:HG22	2.23	0.69
26:BC:211:SER:CB	26:BC:223:ARG:HH21	2.05	0.69
24:BA:1417:C:N3	24:BA:1581:G:N2	2.40	0.69
34:BM:139:GLU:O	34:BM:140:VAL:CG2	2.41	0.69
1:AA:1328:C:OP1	15:AP:28:ALA:HB2	1.93	0.69
1:AA:1407:C:H2'	1:AA:1408:A:H5'	1.73	0.69
1:AA:191(C):G:H2'	1:AA:191(D):U:O4'	1.93	0.69
1:AA:640:A:C2'	1:AA:641:U:H5'	2.23	0.69
1:AA:684:A:O3'	13:AN:12:ARG:NH2	2.25	0.69
1:AA:735:C:H2'	1:AA:736:C:C6	2.26	0.69
1:AA:79:G:H2'	1:AA:80:G:O4'	1.93	0.69
3:AC:59:U:H2'	3:AC:59:U:O2	1.92	0.69
5:AF:116:VAL:HG11	5:AF:141:VAL:CG2	2.22	0.69
5:AF:30:ARG:HG2	5:AF:31:HIS:N	2.05	0.69
5:AF:6:HIS:HB3	16:AQ:49:HIS:CE1	2.28	0.69
6:AG:60:GLU:HA	6:AG:63:LYS:HD3	1.74	0.69
7:AH:122:GLU:CG	7:AH:126:ARG:HG3	2.23	0.69
8:AI:28:ARG:NH1	8:AI:28:ARG:HG2	2.08	0.69
9:AJ:64:GLN:HB3	9:AJ:128:ALA:HB1	1.74	0.69
1:AA:1367:C:P	11:AL:115:GLY:HA2	2.32	0.69
11:AL:97:LYS:HZ2	11:AL:102:LEU:HD22	1.57	0.69
1:AA:529:G:N1	14:AO:49:ASN:ND2	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:60:LEU:HA	18:AS:64:ALA:CB	2.20	0.69
48:B1:27:LEU:CD2	48:B1:48:LEU:HB3	2.23	0.69
24:BA:1019:U:C2	24:BA:1144:G:N2	2.61	0.69
24:BA:1175:U:H5'	24:BA:1176:G:OP2	1.91	0.69
24:BA:143:C:C2	24:BA:144:C:C5	2.80	0.69
24:BA:1742:C:C4	24:BA:1743:G:H8	2.11	0.69
24:BA:1754:C:C2	24:BA:1755:A:H1'	2.28	0.69
24:BA:1970:A:O2'	24:BA:1971:A:P	2.50	0.69
24:BA:2019:A:N1	24:BA:2020:A:N3	2.41	0.69
24:BA:2022:U:H2'	24:BA:2022:U:O2	1.92	0.69
24:BA:2205:C:O2'	24:BA:2206:C:H5'	1.92	0.69
24:BA:2392:A:C2	24:BA:2429:G:C2	2.81	0.69
24:BA:2460:U:H5'	24:BA:2461:C:OP2	1.92	0.69
24:BA:247:G:H22	54:B7:8:LYS:CD	2.04	0.69
24:BA:2549:G:O2'	24:BA:2550:G:H5'	1.92	0.69
24:BA:2597:G:C4'	27:BD:242:ARG:NE	2.56	0.69
24:BA:2801:A:H2	24:BA:2895:U:H1'	1.56	0.69
24:BA:28:A:C2'	24:BA:29:U:H5'	2.23	0.69
24:BA:532:A:H3'	24:BA:533:G:O4'	1.92	0.69
24:BA:695:G:C6	24:BA:768:G:C6	2.81	0.69
24:BA:774:A:O2'	24:BA:775:G:O5'	2.10	0.69
25:BB:24:G:H5''	25:BB:25:A:H5'	1.75	0.69
27:BD:221:VAL:C	27:BD:222:ARG:HG3	2.13	0.69
27:BD:61:LEU:HD13	27:BD:86:PRO:CD	2.22	0.69
28:BE:60:ASN:CG	28:BE:61:ARG:H	1.95	0.69
28:BE:66:HIS:O	28:BE:67:PHE:C	2.32	0.69
30:BG:120:LEU:HA	30:BG:181:ARG:HB2	1.74	0.69
34:BM:107:LEU:HD11	34:BM:113:GLY:O	1.92	0.69
35:BN:75:SER:C	40:BS:77:PRO:HG2	2.13	0.69
37:BP:134:ARG:HG3	37:BP:134:ARG:NH1	2.07	0.69
37:BP:42:ILE:HD11	37:BP:46:GLN:CB	2.20	0.69
39:BR:28:VAL:O	39:BR:29:PHE:HB2	1.90	0.69
40:BS:103:ARG:C	40:BS:105:LEU:N	2.42	0.69
40:BS:35:LYS:O	40:BS:36:GLU:C	2.30	0.69
35:BN:79:PHE:HB2	40:BS:73:GLU:HG3	1.72	0.69
40:BS:28:VAL:N	40:BS:93:ARG:O	2.26	0.69
34:BM:42:TRP:CD1	41:BT:64:ARG:HG2	2.27	0.69
41:BT:61:TRP:O	41:BT:65:ILE:HG12	1.92	0.69
42:BU:6:LYS:CB	42:BU:10:LYS:HA	2.12	0.69
45:BX:56:PRO:O	45:BX:57:GLN:HG3	1.93	0.69
24:BA:2150:U:C2	24:BA:2151:G:N7	2.61	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:103:ILE:HD12	26:BC:127:LEU:HD11	1.74	0.69
1:AA:1013:G:H2'	1:AA:1015:A:OP2	1.91	0.69
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.57	0.69
1:AA:1128:C:C1'	1:AA:1146:A:H61	2.05	0.69
1:AA:1147:C:N3	1:AA:1148:U:C4	2.61	0.69
1:AA:1148:U:O4'	11:AL:16:ARG:HD2	1.93	0.69
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.28	0.69
1:AA:1461:G:O2'	1:AA:1462:G:H5'	1.93	0.69
1:AA:20:U:O2'	1:AA:21:G:H5'	1.93	0.69
1:AA:745:C:H5'	1:AA:851:G:N3	2.08	0.69
1:AA:953:G:H2'	1:AA:954:G:C8	2.27	0.69
3:AD:76:A:P	24:BA:2421:G:H21	2.15	0.69
5:AF:7:PRO:O	5:AF:11:ARG:HG2	1.93	0.69
6:AG:90:GLY:HA3	6:AG:200:GLU:OE2	1.93	0.69
7:AH:118:ILE:O	7:AH:119:LEU:HD23	1.92	0.69
8:AI:10:LEU:N	8:AI:10:LEU:CD2	2.55	0.69
8:AI:4:TYR:CE1	8:AI:72:VAL:HG11	2.28	0.69
11:AL:78:LYS:HA	11:AL:81:ILE:HD12	1.74	0.69
17:AR:81:LEU:CD2	17:AR:85:LEU:HD13	2.23	0.69
18:AS:20:VAL:CG2	18:AS:35:LYS:HA	2.21	0.69
48:B1:54:ARG:HH21	48:B1:54:ARG:HG2	1.57	0.69
49:B2:23:LEU:HD11	49:B2:53:LEU:HD13	1.74	0.69
52:B5:14:THR:HG22	52:B5:51:GLU:CG	2.21	0.69
24:BA:1007:C:H4'	34:BM:108:PRO:HD3	1.75	0.69
24:BA:1050:A:C2'	24:BA:1051:G:H5'	2.23	0.69
24:BA:1142(A):A:H5''	24:BA:1143:A:OP2	1.91	0.69
24:BA:1473:G:H2'	24:BA:1474:C:H6	1.56	0.69
24:BA:1774:C:C6	24:BA:1775:U:C5	2.71	0.69
24:BA:1779:U:O5'	24:BA:1779:U:C6	2.46	0.69
24:BA:1944:U:H1'	24:BA:1955:U:H6	1.53	0.69
24:BA:1785:A:C5'	24:BA:1982:C:H4'	2.22	0.69
24:BA:221:A:O2'	24:BA:271(B):G:C6	2.46	0.69
24:BA:2228:G:N7	24:BA:2229:C:C6	2.60	0.69
24:BA:2482:G:C5	24:BA:2483:C:C6	2.81	0.69
24:BA:272:G:O2'	24:BA:273:G:H5'	1.93	0.69
24:BA:309:G:H5'	24:BA:310:A:OP2	1.93	0.69
24:BA:392:C:H5''	24:BA:409:C:H5''	1.75	0.69
24:BA:1567:A:H5''	27:BD:59:LYS:HG2	1.75	0.69
27:BD:5:LYS:C	27:BD:82:ILE:HD12	2.13	0.69
24:BA:2811:G:H5''	28:BE:59:VAL:HG13	1.75	0.69
28:BE:64:LYS:CA	28:BE:67:PHE:HB2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:37:VAL:CG2	30:BG:159:VAL:HG12	2.23	0.69
30:BG:163:ALA:CB	30:BG:172:LEU:HD23	2.20	0.69
31:BH:157:TYR:HD1	31:BH:158:HIS:N	1.90	0.69
31:BH:69:ARG:HG3	31:BH:70:THR:H	1.57	0.69
34:BM:3:THR:HG22	34:BM:4:TYR:N	2.07	0.69
35:BN:106:LEU:HD13	40:BS:39:ARG:NH2	2.08	0.69
36:BO:6:LEU:O	36:BO:6:LEU:HD23	1.92	0.69
36:BO:77:ARG:HG2	36:BO:79:ARG:HB3	1.73	0.69
37:BP:127:ILE:HD13	37:BP:129:THR:HG21	1.72	0.69
38:BQ:44:LEU:HD13	38:BQ:48:VAL:CG2	2.23	0.69
24:BA:533:G:OP1	41:BT:24:TYR:HB3	1.92	0.69
41:BT:61:TRP:O	41:BT:62:ILE:C	2.30	0.69
41:BT:89:GLU:HB3	42:BU:52:VAL:H	1.55	0.69
43:BV:11:ARG:NH2	43:BV:11:ARG:H	1.87	0.69
45:BX:19:LYS:HG2	45:BX:39:VAL:HG12	1.75	0.69
46:BY:28:MET:CE	46:BY:88:PHE:HB2	2.22	0.69
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.23	0.68
1:AA:1201:A:O2'	1:AA:1202:G:H5''	1.92	0.68
1:AA:1465:C:N3	1:AA:1466:C:C6	2.60	0.68
1:AA:264:U:H2'	19:AT:64:PRO:HB2	1.73	0.68
1:AA:790:A:H2'	1:AA:791:G:O5'	1.92	0.68
1:AA:856:C:N3	1:AA:857:C:C5	2.61	0.68
1:AA:948:C:H2'	1:AA:949:A:H8	1.57	0.68
3:AB:12:U:N3	3:AB:24:G:N2	2.41	0.68
4:AE:187:LEU:CD2	4:AE:201:ILE:O	2.42	0.68
6:AG:112:VAL:CG2	6:AG:161:ASN:HD21	2.06	0.68
7:AH:76:ILE:HG21	7:AH:142:LEU:CB	2.23	0.68
8:AI:7:ASN:ND2	8:AI:62:TRP:CD1	2.58	0.68
10:AK:126:LYS:HD2	10:AK:126:LYS:C	2.13	0.68
17:AR:43:LEU:HD11	17:AR:56:LEU:HD23	1.74	0.68
18:AS:32:TYR:CD1	18:AS:32:TYR:N	2.62	0.68
20:AU:36:ASN:HB3	20:AU:40:LEU:HG	1.74	0.68
20:AU:47:THR:O	20:AU:82:THR:HA	1.92	0.68
21:AV:36:ARG:HG3	21:AV:72:GLY:HA2	1.75	0.68
22:AW:56:MET:HG2	22:AW:88:VAL:CG2	2.22	0.68
49:B2:35:ARG:HH12	49:B2:47:VAL:CG2	2.04	0.68
51:B4:43:HIS:O	51:B4:44:THR:HG23	1.93	0.68
51:B4:58:LEU:HD13	51:B4:59:GLU:HB2	1.76	0.68
55:B8:9:ARG:HD3	55:B8:14:CYS:O	1.93	0.68
24:BA:1264:G:C5'	24:BA:1265:A:H5''	2.23	0.68
24:BA:1283:G:N2	24:BA:1286:A:O4'	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1339:G:C5'	44:BW:16:LYS:HD3	2.23	0.68
24:BA:1352:U:O2'	24:BA:1353:A:H5'	1.93	0.68
24:BA:1567:A:O2'	24:BA:1568:G:C6	2.45	0.68
24:BA:1638:C:H2'	24:BA:1639:U:O4'	1.93	0.68
24:BA:1954:G:HO2'	24:BA:1955:U:H5'	1.54	0.68
24:BA:2277:G:H5''	47:BZ:12:ASN:ND2	2.08	0.68
24:BA:2282:G:C2	24:BA:2425:A:C8	2.81	0.68
24:BA:2371:G:H4'	52:B5:46:HIS:CB	2.19	0.68
24:BA:2468:G:C8	24:BA:2476:A:N1	2.61	0.68
24:BA:2498:C:O2	24:BA:2498:C:H2'	1.92	0.68
24:BA:2581:G:N2	24:BA:2610:C:C6	2.62	0.68
24:BA:2697:G:N2	24:BA:2698:U:H1'	2.08	0.68
24:BA:2848:G:N2	24:BA:2849:U:H3	1.91	0.68
24:BA:391:G:H2'	24:BA:392:C:H6	1.55	0.68
24:BA:408:G:O5'	24:BA:408:G:H8	1.76	0.68
24:BA:499:U:H5	24:BA:500:G:N3	1.90	0.68
17:AR:53:HIS:CD2	24:BA:715:G:H22	2.11	0.68
24:BA:783:A:H2'	24:BA:784:A:C5'	2.23	0.68
24:BA:955:C:H2'	24:BA:956:G:O5'	1.93	0.68
27:BD:8:PRO:HG2	27:BD:26:LYS:HG3	1.73	0.68
28:BE:98:PRO:HA	28:BE:172:VAL:CG2	2.22	0.68
29:BF:41:LEU:HA	29:BF:44:ARG:HE	1.58	0.68
29:BF:9:ILE:HG13	29:BF:122:LYS:HG3	1.75	0.68
30:BG:96:ARG:O	30:BG:100:TRP:CE3	2.46	0.68
33:BL:99:ILE:CG2	33:BL:100:THR:N	2.56	0.68
33:BL:105:LEU:O	33:BL:108:ALA:HB3	1.93	0.68
33:BL:10:LEU:CD1	33:BL:27:LEU:HD21	2.22	0.68
33:BL:9:LYS:HG2	33:BL:56:GLU:HG3	1.75	0.68
34:BM:54:VAL:O	34:BM:122:VAL:HB	1.93	0.68
34:BM:11:PRO:HB2	34:BM:13:TRP:CZ3	2.25	0.68
34:BM:34:LEU:HB3	34:BM:116:LEU:HD21	1.74	0.68
34:BM:45:ASN:OD1	34:BM:45:ASN:N	2.26	0.68
36:BO:112:LEU:O	36:BO:128:HIS:CE1	2.46	0.68
38:BQ:65:LEU:HD23	38:BQ:65:LEU:C	2.13	0.68
40:BS:95:ARG:NH2	40:BS:96:ARG:HH21	1.90	0.68
24:BA:1248:G:H8	41:BT:2:PRO:HA	1.55	0.68
41:BT:45:TYR:HB3	41:BT:49:HIS:HE1	1.57	0.68
41:BT:88:ILE:H	42:BU:52:VAL:HG22	1.57	0.68
42:BU:61:VAL:O	42:BU:99:ILE:CB	2.39	0.68
44:BW:15:GLU:HB3	44:BW:16:LYS:CE	2.23	0.68
45:BX:50:ARG:HB2	45:BX:54:LYS:HD3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:88:LYS:HB3	45:BX:91:GLU:OE2	1.93	0.68
32:BK:86:THR:HG22	32:BK:87:LYS:N	2.09	0.68
26:BC:41:VAL:HG22	26:BC:216:THR:CG2	2.20	0.68
3:AB:1:G:N3	3:AB:1:G:H2'	2.08	0.68
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.58	0.68
1:AA:38:G:N2	1:AA:397:A:C5'	2.37	0.68
1:AA:432:A:N7	1:AA:433:C:C5	2.61	0.68
1:AA:474:G:H5'	18:AS:81:ARG:CG	2.22	0.68
1:AA:887:G:H2'	1:AA:888:G:C8	2.29	0.68
5:AF:41:GLY:O	5:AF:45:LYS:HB2	1.93	0.68
7:AH:76:ILE:HG21	7:AH:142:LEU:HB3	1.73	0.68
7:AH:68:GLU:O	7:AH:70:PRO:HD3	1.93	0.68
6:AG:88:VAL:HG22	7:AH:97:GLY:H	1.58	0.68
10:AK:11:THR:O	10:AK:12:ARG:C	2.32	0.68
13:AN:69:ALA:O	13:AN:72:ALA:HB3	1.92	0.68
13:AN:82:VAL:HG12	13:AN:108:ILE:HG23	1.74	0.68
14:AO:84:LEU:HD23	14:AO:84:LEU:C	2.14	0.68
20:AU:36:ASN:HB3	20:AU:40:LEU:HD21	1.75	0.68
22:AW:56:MET:SD	22:AW:84:LEU:HD12	2.33	0.68
22:AW:55:ILE:O	22:AW:57:ARG:N	2.26	0.68
48:B1:41:GLN:O	48:B1:43:HIS:N	2.26	0.68
48:B1:27:LEU:HG	48:B1:48:LEU:HD23	1.75	0.68
51:B4:9:LYS:O	51:B4:10:LYS:CB	2.40	0.68
52:B5:16:CYS:SG	52:B5:19:ARG:O	2.51	0.68
52:B5:20:ASN:HD21	52:B5:43:CYS:CA	2.06	0.68
55:B8:29:ASN:HB3	55:B8:32:HIS:ND1	2.08	0.68
24:BA:331:A:H61	24:BA:1209:G:H2'	1.58	0.68
24:BA:1287:A:O4'	38:BQ:104:ARG:HD2	1.93	0.68
24:BA:1472:A:H1'	24:BA:1473:G:C8	2.28	0.68
24:BA:1516:U:H2'	24:BA:1517:G:H8	1.58	0.68
24:BA:1559:G:C6	24:BA:1560:G:H4'	2.28	0.68
24:BA:1708:C:H2'	24:BA:1709:U:C5'	2.23	0.68
24:BA:1773:A:C2	24:BA:1977:A:N6	2.60	0.68
24:BA:199:A:C6	24:BA:2433:A:C2	2.82	0.68
24:BA:2061:G:N2	24:BA:2063:C:O4'	2.26	0.68
24:BA:20:C:O2'	24:BA:21:A:C5'	2.42	0.68
24:BA:2219:G:H2'	24:BA:2224:G:C5'	2.22	0.68
24:BA:2256:G:N2	24:BA:2275:C:H41	1.92	0.68
24:BA:2588:G:N7	24:BA:2589:A:N7	2.41	0.68
24:BA:2654:A:H1'	24:BA:2656:U:C4	2.28	0.68
24:BA:33:U:HO2'	24:BA:34:C:H5	1.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:412:A:C2	24:BA:413:C:H1'	2.27	0.68
24:BA:552:G:O2'	24:BA:553:U:H5'	1.94	0.68
24:BA:727:A:C6	24:BA:729:G:C6	2.81	0.68
24:BA:1501:C:O4'	27:BD:100:GLY:HA2	1.93	0.68
27:BD:47:GLY:O	27:BD:49:ILE:HD12	1.93	0.68
28:BE:200:GLU:CB	28:BE:202:LYS:HZ3	2.06	0.68
31:BH:159:GLU:OE2	31:BH:161:GLY:N	2.20	0.68
33:BL:17:ALA:O	33:BL:18:THR:HG23	1.93	0.68
34:BM:55:VAL:HG22	34:BM:56:ASN:H	1.59	0.68
35:BN:105:GLU:C	35:BN:111:PHE:HZ	1.96	0.68
35:BN:35:VAL:HA	35:BN:61:VAL:CG1	2.23	0.68
35:BN:68:GLU:HG2	35:BN:76:ALA:C	2.13	0.68
37:BP:37:LEU:HD23	37:BP:100:GLY:HA3	1.74	0.68
38:BQ:74:LYS:HA	38:BQ:77:ARG:HH22	1.59	0.68
38:BQ:97:VAL:C	38:BQ:98:LEU:HG	2.14	0.68
40:BS:87:ASP:OD2	40:BS:89:VAL:HG23	1.94	0.68
40:BS:93:ARG:N	40:BS:93:ARG:HE	1.91	0.68
24:BA:1252:G:N2	41:BT:37:GLU:HG3	2.04	0.68
24:BA:1009:A:O4'	41:BT:59:ARG:NH1	2.26	0.68
45:BX:9:LYS:HB2	45:BX:110:GLU:CD	2.12	0.68
24:BA:2112:G:N3	24:BA:2112:G:H2'	2.07	0.68
26:BC:153:ILE:O	26:BC:156:ILE:HB	1.92	0.68
26:BC:212:VAL:O	26:BC:223:ARG:HG3	1.93	0.68
26:BC:97:GLU:HB3	26:BC:126:LYS:NZ	2.08	0.68
24:BA:1418:G:H1'	24:BA:1581:G:N2	2.08	0.68
39:BR:33:LYS:HG2	39:BR:54:LEU:CD2	2.23	0.68
1:AA:1063:C:C5	1:AA:1064:G:N7	2.62	0.68
1:AA:1213:A:C6	1:AA:1215:G:C2	2.81	0.68
1:AA:236:G:C3'	1:AA:237:C:H6	2.06	0.68
3:AC:41:C:C4	3:AC:42:C:C5	2.82	0.68
4:AE:95:GLN:O	4:AE:97:TRP:N	2.27	0.68
9:AJ:12:LEU:O	9:AJ:12:LEU:HD12	1.94	0.68
9:AJ:70:LYS:HB3	9:AJ:96:GLN:HG2	1.75	0.68
10:AK:88:LYS:N	10:AK:88:LYS:HZ2	1.91	0.68
1:AA:964:A:H1'	12:AM:55:LYS:HZ2	1.57	0.68
13:AN:81:ASP:OD1	13:AN:106:LYS:HD2	1.94	0.68
17:AR:77:ARG:O	17:AR:80:ALA:HB3	1.92	0.68
1:AA:474:G:H5'	18:AS:81:ARG:HE	1.58	0.68
22:AW:14:LYS:N	22:AW:17:ARG:NH2	2.41	0.68
24:BA:1166:C:H2'	24:BA:1167:U:C6	2.28	0.68
24:BA:1404:C:O2'	24:BA:1405:U:H5'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1464:C:H2'	24:BA:1465:G:H8	1.58	0.68
24:BA:1743:G:O3'	24:BA:1743:G:OP1	2.12	0.68
24:BA:781:A:C2	24:BA:1776:G:N3	2.61	0.68
24:BA:1970:A:O2'	24:BA:1971:A:O5'	2.12	0.68
24:BA:2271:G:OP1	47:BZ:19:LYS:O	2.12	0.68
3:AB:53:G:H4'	24:BA:2470:G:OP1	1.94	0.68
24:BA:2492:U:C2'	24:BA:2492:U:O2	2.40	0.68
24:BA:534:U:O2'	41:BT:49:HIS:CD2	2.46	0.68
24:BA:636:G:H4'	24:BA:638:G:O2'	1.92	0.68
24:BA:657:U:H2'	24:BA:658:C:C6	2.28	0.68
24:BA:920:G:C2'	24:BA:921:G:H5'	2.23	0.68
24:BA:91:A:H3'	24:BA:92:G:C8	2.27	0.68
27:BD:29:PRO:CB	27:BD:82:ILE:O	2.42	0.68
28:BE:105:THR:OG1	28:BE:106:GLY:N	2.25	0.68
24:BA:1657:C:C5'	28:BE:133:LYS:HD3	2.17	0.68
3:AC:56:C:O2'	30:BG:82:LEU:HA	1.92	0.68
34:BM:55:VAL:C	34:BM:57:ALA:N	2.40	0.68
37:BP:137:TYR:O	37:BP:138:ASP:OD1	2.10	0.68
38:BQ:73:VAL:HG23	38:BQ:74:LYS:N	2.08	0.68
38:BQ:52:ILE:HD12	38:BQ:94:TYR:CD1	2.28	0.68
39:BR:49:VAL:HG13	39:BR:76:LYS:HZ1	1.58	0.68
39:BR:49:VAL:HG22	39:BR:76:LYS:NZ	2.07	0.68
41:BT:74:LEU:HB3	41:BT:78:THR:CB	2.24	0.68
42:BU:33:VAL:HG12	42:BU:34:GLU:N	2.07	0.68
43:BV:11:ARG:O	43:BV:11:ARG:HG2	1.92	0.68
44:BW:15:GLU:HB3	44:BW:16:LYS:NZ	2.09	0.68
46:BY:9:TYR:HB2	46:BY:14:LYS:HG2	1.74	0.68
26:BC:51:PRO:HB3	26:BC:165:ASN:ND2	2.08	0.68
2:A1:48:U:H2'	2:A1:49:U:C6	2.28	0.68
1:AA:1250:A:N3	1:AA:1370:G:O2'	2.26	0.68
1:AA:195:A:H4'	22:AW:68:LYS:NZ	2.08	0.68
1:AA:259:G:H2'	1:AA:260:G:H8	1.52	0.68
1:AA:359:U:H2'	1:AA:360:A:C8	2.28	0.68
1:AA:442:C:O2	1:AA:442:C:H2'	1.93	0.68
1:AA:573:A:C2	1:AA:574:A:C6	2.80	0.68
1:AA:831:U:H2'	1:AA:832:C:C6	2.29	0.68
1:AA:899:C:N4	1:AA:900:A:N1	2.40	0.68
1:AA:992:U:O2'	1:AA:993:G:OP2	2.11	0.68
3:AC:25:C:N4	3:AC:26:A:N6	2.41	0.68
4:AE:136:VAL:N	4:AE:139:LYS:HZ2	1.91	0.68
4:AE:43:ASP:OD1	4:AE:44:LEU:HG	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:90:GLY:HA3	6:AG:200:GLU:CD	2.14	0.68
7:AH:88:LYS:HB3	7:AH:123:LEU:O	1.94	0.68
10:AK:46:LYS:HZ1	10:AK:65:TYR:H	1.39	0.68
13:AN:91:ARG:O	13:AN:94:ALA:HB3	1.92	0.68
14:AO:82:VAL:HG12	14:AO:83:VAL:N	2.08	0.68
17:AR:36:ILE:HD12	17:AR:63:ARG:CD	2.22	0.68
19:AT:44:ALA:HB1	19:AT:72:ARG:CA	2.22	0.68
49:B2:6:VAL:HG23	49:B2:35:ARG:CG	2.14	0.68
51:B4:6:VAL:HG13	51:B4:6:VAL:O	1.94	0.68
52:B5:19:ARG:HG2	52:B5:43:CYS:SG	2.34	0.68
52:B5:32:ASN:CG	52:B5:33:LYS:N	2.39	0.68
24:BA:1241:A:C4'	24:BA:1241:A:N3	2.55	0.68
24:BA:1314:C:C2'	24:BA:1315:C:H5'	2.23	0.68
24:BA:1332:G:C5	24:BA:1609:A:C6	2.82	0.68
24:BA:139:G:H2'	24:BA:140:A:O5'	1.94	0.68
24:BA:1495:A:C2	24:BA:1496:A:N6	2.62	0.68
24:BA:1859:A:H2'	24:BA:1860:G:O4'	1.92	0.68
24:BA:1943:U:H1'	24:BA:1945:G:H5''	1.75	0.68
24:BA:2073:C:O2'	24:BA:2074:U:H5'	1.94	0.68
24:BA:2284:C:H3'	52:B5:27:LYS:HZ1	1.59	0.68
24:BA:2376:A:H2'	24:BA:2377:A:O4'	1.92	0.68
3:AC:75:C:P	24:BA:2602:A:OP1	2.51	0.68
24:BA:270(X):G:H2'	24:BA:270(Y):G:C5'	2.17	0.68
24:BA:2784:C:C4'	28:BE:41:LYS:HE2	2.23	0.68
24:BA:292:C:C3'	24:BA:293:U:N3	2.55	0.68
24:BA:312:G:H3'	24:BA:313:C:C5	2.28	0.68
24:BA:455:C:P	24:BA:472:A:N1	2.67	0.68
24:BA:571:A:H1'	24:BA:573:G:N7	2.07	0.68
24:BA:660:G:H2'	24:BA:661:C:C6	2.29	0.68
24:BA:778:G:N2	24:BA:787:U:C2	2.61	0.68
25:BB:24:G:O5'	25:BB:24:G:H8	1.77	0.68
27:BD:176:ARG:CG	27:BD:176:ARG:HH11	2.04	0.68
27:BD:46:GLN:CD	27:BD:51:VAL:HG23	2.13	0.68
28:BE:147:PRO:CG	28:BE:149:ARG:HD2	2.23	0.68
28:BE:44:TYR:CD2	28:BE:45:THR:N	2.61	0.68
24:BA:669:G:N7	29:BF:54:ARG:NH1	2.40	0.68
30:BG:126:ASP:HA	30:BG:166:ASP:OD2	1.92	0.68
30:BG:166:ASP:O	30:BG:167:GLU:C	2.32	0.68
30:BG:120:LEU:HD22	30:BG:181:ARG:CG	2.24	0.68
33:BL:12:LEU:HD22	33:BL:19:PRO:CG	2.23	0.68
34:BM:34:LEU:HD22	34:BM:120:LEU:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:995:C:H42	34:BM:3:THR:CA	2.06	0.68
34:BM:75:TYR:HD1	34:BM:75:TYR:H	1.39	0.68
34:BM:85:ILE:HB	34:BM:90:MET:SD	2.34	0.68
37:BP:27:VAL:HG13	37:BP:104:PHE:HE2	1.57	0.68
38:BQ:107:ASP:OD1	38:BQ:109:ALA:HB2	1.94	0.68
38:BQ:21:TYR:HB3	38:BQ:47:PHE:CD2	2.29	0.68
38:BQ:20:LEU:HD13	38:BQ:21:TYR:N	2.07	0.68
24:BA:2708:G:OP1	38:BQ:68:ARG:HG2	1.92	0.68
39:BR:23:ARG:NH1	39:BR:42:ASP:CB	2.54	0.68
40:BS:28:VAL:O	40:BS:52:ILE:CG1	2.42	0.68
40:BS:65:LYS:HD3	40:BS:75:ILE:CD1	2.23	0.68
41:BT:108:GLU:C	41:BT:110:VAL:N	2.42	0.68
24:BA:1009:A:H4'	41:BT:62:ILE:HG21	1.73	0.68
45:BX:44:ILE:HG22	45:BX:44:ILE:O	1.93	0.68
47:BZ:28:GLY:CA	47:BZ:67:VAL:HB	2.23	0.68
47:BZ:31:VAL:HG11	47:BZ:67:VAL:HG22	1.76	0.68
24:BA:2114:A:N3	24:BA:2167:U:O2'	2.25	0.68
24:BA:2121:G:H1'	26:BC:167:LYS:CE	2.24	0.68
1:AA:1008:C:H2'	1:AA:1009:G:O4'	1.93	0.68
24:BA:491:G:H2'	24:BA:492:A:C8	2.28	0.68
10:AK:53:VAL:O	10:AK:56:LYS:HB2	1.93	0.68
1:AA:1045:C:H2'	1:AA:1046:A:C8	2.27	0.68
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.58	0.68
1:AA:1402:C:H2'	1:AA:1403:C:H6	1.57	0.68
1:AA:1465:C:H2'	1:AA:1466:C:O5'	1.94	0.68
1:AA:193:C:C2	1:AA:194:C:C5	2.82	0.68
1:AA:194:C:H5''	22:AW:65:LYS:NZ	2.09	0.68
1:AA:262:A:C2'	1:AA:263:A:C8	2.74	0.68
1:AA:130:A:C4	1:AA:264:U:H1'	2.28	0.68
1:AA:314:C:H5''	1:AA:315:A:OP2	1.94	0.68
1:AA:394:G:C4	1:AA:395:C:C5	2.82	0.68
1:AA:59:A:H4'	1:AA:388:G:C5'	2.24	0.68
1:AA:608:A:C2	1:AA:609:A:C8	2.81	0.68
1:AA:644:G:O2'	1:AA:645:C:H5'	1.94	0.68
1:AA:821:G:H2'	1:AA:822:C:H6	1.58	0.68
1:AA:945:G:C2	1:AA:946:A:C8	2.81	0.68
1:AA:97:U:O2'	1:AA:99:C:H5'	1.94	0.68
4:AE:213:LEU:C	4:AE:213:LEU:HD23	2.14	0.68
4:AE:23:ARG:HB2	4:AE:23:ARG:NH1	2.09	0.68
1:AA:1189:C:O2'	5:AF:176:HIS:NE2	2.27	0.68
6:AG:109:GLY:O	6:AG:110:PHE:C	2.31	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:146:ILE:HD12	6:AG:183:GLY:O	1.93	0.68
7:AH:9:LYS:HE2	7:AH:9:LYS:HA	1.75	0.68
8:AI:79:LEU:HB2	8:AI:88:VAL:HG11	1.74	0.68
9:AJ:143:ARG:O	9:AJ:146:GLU:OE1	2.11	0.68
9:AJ:2:ALA:HB1	9:AJ:5:ARG:O	1.94	0.68
1:AA:1240:U:H1'	9:AJ:42:ILE:HD11	1.76	0.68
11:AL:6:GLY:CA	11:AL:83:ARG:HB3	2.23	0.68
13:AN:45:GLY:HA3	13:AN:55:LYS:HB3	1.76	0.68
13:AN:41:THR:CB	13:AN:71:LYS:HD3	2.22	0.68
14:AO:37:CYS:CB	14:AO:58:VAL:HG22	2.24	0.68
14:AO:68:ALA:HB1	14:AO:98:TYR:C	2.13	0.68
19:AT:88:TYR:CA	19:AT:91:ARG:HH21	2.06	0.68
20:AU:53:ARG:CG	20:AU:63:GLN:HE21	2.05	0.68
20:AU:63:GLN:O	20:AU:67:ALA:HB2	1.93	0.68
22:AW:43:LEU:HD23	22:AW:46:GLU:OE2	1.94	0.68
53:B6:42:LEU:O	53:B6:45:ALA:N	2.25	0.68
24:BA:126:A:C5'	53:B6:47:ARG:HH12	2.07	0.68
53:B6:47:ARG:HG2	53:B6:48:LYS:N	2.08	0.68
54:B7:6:THR:O	54:B7:9:GLY:N	2.26	0.68
24:BA:1177:A:C2	24:BA:1178:C:N3	2.61	0.68
24:BA:1203:G:O2'	24:BA:1204:A:OP1	2.11	0.68
24:BA:1321:A:O3'	43:BV:11:ARG:NH1	2.27	0.68
24:BA:1270:C:C1'	24:BA:1325:G:N7	2.48	0.68
24:BA:1449:A:C2	24:BA:1449(A):G:H1'	2.29	0.68
24:BA:1455:G:N2	24:BA:1456:G:H1'	2.09	0.68
24:BA:1491:G:C5	24:BA:1492:G:H1'	2.28	0.68
24:BA:1780:A:OP2	24:BA:1782:C:P	2.51	0.68
24:BA:764:A:N6	24:BA:1789:A:H2	1.90	0.68
24:BA:1858:G:C5	24:BA:1883:G:N1	2.60	0.68
24:BA:2081:C:O2'	24:BA:2082:A:H5'	1.94	0.68
24:BA:2231:C:H2'	24:BA:2232:U:C6	2.27	0.68
24:BA:2346:A:C4'	24:BA:2383:G:O4'	2.41	0.68
24:BA:2428:G:H4'	24:BA:2429:G:O5'	1.94	0.68
24:BA:2493:U:C3'	24:BA:2493:U:C6	2.75	0.68
24:BA:2584:U:C2'	24:BA:2585:U:C5	2.73	0.68
24:BA:2731:G:N2	24:BA:2732:G:C2	2.62	0.68
24:BA:2805:G:N7	24:BA:2807:G:H8	1.92	0.68
24:BA:353:G:C6	24:BA:354:G:C6	2.80	0.68
24:BA:919:G:C4	24:BA:920:G:C8	2.82	0.68
24:BA:970:C:O2'	24:BA:984:A:O2'	2.12	0.68
27:BD:146:GLU:HG2	27:BD:147:LEU:O	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:89:SER:HB2	27:BD:202:LYS:HZ1	1.57	0.68
29:BF:30:PRO:O	29:BF:33:LEU:CG	2.35	0.68
31:BH:7:LEU:N	31:BH:69:ARG:HE	1.91	0.68
36:BO:97:PRO:N	36:BO:102:ARG:CZ	2.57	0.68
37:BP:127:ILE:N	37:BP:127:ILE:HD12	2.08	0.68
38:BQ:61:HIS:C	38:BQ:64:ARG:HD3	2.14	0.68
40:BS:50:ILE:HD12	40:BS:66:VAL:HG23	1.75	0.68
41:BT:93:LYS:H	42:BU:10:LYS:NZ	1.83	0.68
43:BV:25:ARG:CD	43:BV:74:ALA:HB3	2.24	0.68
44:BW:49:VAL:HG12	44:BW:88:LYS:CB	2.24	0.68
3:AD:9:A:N3	3:AD:46:G:H1'	2.09	0.68
28:BE:17:ASP:N	28:BE:17:ASP:OD2	2.23	0.68
1:AA:112:G:OP1	1:AA:389:A:O2'	2.12	0.68
1:AA:831:U:H2'	1:AA:832:C:H6	1.59	0.68
3:AC:18:G:C2	3:AC:58:A:C4	2.81	0.68
4:AE:136:VAL:HA	4:AE:139:LYS:NZ	2.09	0.68
5:AF:22:TRP:HB3	5:AF:59:ARG:HB3	1.74	0.68
6:AG:192:GLU:OE1	6:AG:192:GLU:N	2.27	0.68
6:AG:24:GLU:C	6:AG:27:TYR:HB3	2.14	0.68
6:AG:35:ARG:O	6:AG:37:PRO:N	2.27	0.68
7:AH:74:GLY:O	7:AH:115:VAL:HG12	1.92	0.68
7:AH:43:LEU:HB3	7:AH:136:MET:CE	2.23	0.68
7:AH:79:GLU:HB3	7:AH:91:LEU:O	1.93	0.68
8:AI:16:GLN:HG3	8:AI:17:SER:N	2.09	0.68
9:AJ:46:ALA:HB2	9:AJ:120:ILE:HD12	1.76	0.68
11:AL:49:PRO:HD3	11:AL:78:LYS:HZ3	1.58	0.68
12:AM:76:ASN:O	12:AM:78:ASN:N	2.26	0.68
1:AA:518:C:O2'	14:AO:50:SER:HB3	1.92	0.68
16:AQ:27:CYS:H	16:AQ:43:CYS:HB3	1.58	0.68
16:AQ:46:GLU:O	16:AQ:49:HIS:HB2	1.93	0.68
17:AR:81:LEU:HD23	17:AR:85:LEU:HD13	1.74	0.68
22:AW:40:ALA:HA	22:AW:55:ILE:HD13	1.74	0.68
49:B2:52:HIS:O	49:B2:54:VAL:N	2.27	0.68
52:B5:19:ARG:HB2	52:B5:43:CYS:SG	2.33	0.68
53:B6:17:GLY:C	53:B6:21:ARG:HH12	1.97	0.68
54:B7:38:GLY:O	54:B7:41:ILE:N	2.25	0.68
24:BA:1153:C:H2'	24:BA:1154:G:C8	2.27	0.68
24:BA:1188:U:C2'	24:BA:1189:A:H5'	2.24	0.68
24:BA:1196:C:N3	24:BA:1250:G:O6	2.27	0.68
24:BA:138:G:N2	24:BA:140:A:H62	1.91	0.68
24:BA:1472:A:O2'	24:BA:1473:G:H8	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1608:A:H4'	24:BA:1609:A:OP1	1.93	0.68
24:BA:1698:A:O2'	24:BA:1699:G:O5'	2.10	0.68
24:BA:1735:C:N3	24:BA:1741:C:N4	2.40	0.68
24:BA:1936:A:H5'	24:BA:1937:A:C2	2.28	0.68
24:BA:223:A:C2	24:BA:422:A:N7	2.62	0.68
24:BA:2265:U:H2'	24:BA:2266:A:OP1	1.92	0.68
24:BA:2331:G:C2	24:BA:2385:C:N4	2.61	0.68
24:BA:242:G:N7	54:B7:2:PRO:HG2	2.09	0.68
24:BA:2436:G:H2'	24:BA:2437:U:C6	2.28	0.68
24:BA:2712:U:OP1	24:BA:2714:G:H4'	1.94	0.68
24:BA:470:A:N3	24:BA:471:A:H1'	2.08	0.68
24:BA:585:G:H1	24:BA:1253:A:P	2.17	0.68
24:BA:704:G:N2	24:BA:726:G:H1'	2.07	0.68
24:BA:687:C:H1'	24:BA:788:A:C5'	2.21	0.68
24:BA:814:C:OP1	42:BU:85:LYS:HB2	1.94	0.68
25:BB:117:G:N2	25:BB:118:G:C8	2.62	0.68
24:BA:2226:C:O2'	27:BD:262:ARG:HG2	1.93	0.68
28:BE:8:LYS:HZ2	28:BE:9:VAL:CG1	2.01	0.68
29:BF:7:TYR:H	29:BF:20:LEU:HD22	1.59	0.68
29:BF:51:THR:O	29:BF:52:LYS:HG3	1.94	0.68
30:BG:144:ILE:HD12	30:BG:147:ASP:OD2	1.93	0.68
30:BG:44:GLY:CA	30:BG:72:ARG:HB3	2.24	0.68
34:BM:23:LEU:HD11	34:BM:62:VAL:HA	1.75	0.68
35:BN:103:ALA:HB1	35:BN:107:ARG:CZ	2.24	0.68
36:BO:99:LEU:HD13	36:BO:101:VAL:CG2	2.23	0.68
38:BQ:83:ILE:HD12	38:BQ:86:ARG:NE	2.08	0.68
40:BS:29:ARG:HA	40:BS:50:ILE:O	1.94	0.68
40:BS:59:THR:N	40:BS:61:PHE:CZ	2.61	0.68
42:BU:40:LEU:HG	42:BU:54:GLY:C	2.14	0.68
42:BU:68:LYS:HG2	42:BU:95:LEU:HD11	1.74	0.68
46:BY:127:LYS:HA	46:BY:164:ALA:HB3	1.76	0.68
46:BY:70:LEU:O	46:BY:88:PHE:HA	1.94	0.68
32:BK:62:LYS:O	32:BK:65:ALA:HB3	1.94	0.68
26:BC:11:LEU:O	26:BC:14:VAL:HB	1.94	0.68
26:BC:167:LYS:HG3	26:BC:168:THR:H	1.56	0.68
26:BC:171:ILE:HG12	26:BC:172:HIS:N	2.09	0.68
1:AA:1209:C:O2'	1:AA:1210:C:H5'	1.93	0.68
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.27	0.68
1:AA:379:C:H2'	1:AA:380:G:H5'	1.75	0.68
1:AA:427:U:C2	1:AA:428:G:N7	2.62	0.68
1:AA:516:U:C4	1:AA:517:G:N1	2.62	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:915:A:O5'	1:AA:915:A:H8	1.77	0.68
1:AA:963:G:O2'	1:AA:964:A:H5'	1.94	0.68
3:AB:51:U:O2'	24:BA:2471:C:H4'	1.93	0.68
3:AC:15:G:OP2	3:AC:15:G:C8	2.46	0.68
4:AE:184:VAL:O	4:AE:198:ASP:CB	2.36	0.68
4:AE:82:ARG:O	4:AE:86:GLU:HG3	1.93	0.68
5:AF:38:ARG:HB2	5:AF:94:LEU:CD2	2.24	0.68
12:AM:27:ALA:HB2	12:AM:85:LEU:HG	1.75	0.68
1:AA:1316:G:O6	21:AV:6:LYS:HE2	1.94	0.68
48:B1:33:GLN:NE2	48:B1:33:GLN:N	2.42	0.68
50:B3:14:ILE:HG22	50:B3:14:ILE:O	1.93	0.68
50:B3:41:PRO:C	50:B3:58:ARG:NH1	2.47	0.68
36:BO:54:GLY:HA2	54:B7:12:LYS:HD3	1.76	0.68
24:BA:242:G:H5''	54:B7:4:MET:CE	2.23	0.68
54:B7:60:LEU:HD23	54:B7:61:LEU:N	2.09	0.68
24:BA:1092:C:N4	24:BA:1093:G:N3	2.41	0.68
24:BA:112:U:C4	24:BA:113:G:H1'	2.28	0.68
24:BA:1213:A:O2'	24:BA:1239:G:O4'	2.12	0.68
24:BA:1376:C:C2	24:BA:1377:G:C8	2.82	0.68
24:BA:1531:C:O2	24:BA:1532:C:H5	1.76	0.68
24:BA:1566:A:O2'	24:BA:1567:A:OP1	2.07	0.68
24:BA:1697:G:H5''	24:BA:1698:A:C5'	2.21	0.68
24:BA:1819:A:C3'	27:BD:178:PRO:HB2	2.22	0.68
24:BA:1835:G:C2'	24:BA:1836:C:H5'	2.23	0.68
24:BA:1906:G:H8	24:BA:1929:G:H2'	1.58	0.68
24:BA:193:U:H4'	24:BA:803:U:H4'	1.74	0.68
24:BA:1988:C:O2'	24:BA:1989:G:H5'	1.93	0.68
24:BA:1992:G:O4'	24:BA:1993:U:O4	2.12	0.68
24:BA:2019:A:N1	24:BA:2020:A:C4	2.62	0.68
24:BA:216:A:H2'	24:BA:217:G:H8	1.59	0.68
24:BA:2195:C:C2	24:BA:2196:C:C6	2.82	0.68
24:BA:2575:C:H5''	24:BA:2576:G:OP2	1.94	0.68
24:BA:2675:A:N1	24:BA:2732:G:N2	2.42	0.68
24:BA:2764:A:H5'	24:BA:2765:A:OP2	1.92	0.68
24:BA:447:A:N6	24:BA:473:G:H1'	2.08	0.68
24:BA:673:C:N4	24:BA:808:G:N1	2.41	0.68
24:BA:885:C:H42	24:BA:889:C:C1'	2.06	0.68
24:BA:947:G:O2'	24:BA:948:G:H5'	1.94	0.68
24:BA:962:G:H2'	24:BA:963:U:H6	1.51	0.68
24:BA:988:A:H4'	24:BA:1155:A:C2	2.25	0.68
27:BD:10:THR:O	27:BD:11:PRO:C	2.31	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:132:PRO:HB3	27:BD:190:TYR:CE1	2.29	0.68
28:BE:137:HIS:CB	28:BE:138:PRO:HD2	2.23	0.68
28:BE:2:LYS:HD3	28:BE:83:ASP:CB	2.24	0.68
30:BG:17:PRO:C	30:BG:20:ILE:HB	2.14	0.68
31:BH:107:VAL:CG1	31:BH:152:ARG:HD2	2.23	0.68
31:BH:42:ARG:NE	31:BH:42:ARG:HA	2.09	0.68
31:BH:76:VAL:HG23	31:BH:77:LYS:H	1.57	0.68
34:BM:116:LEU:HD23	34:BM:116:LEU:C	2.14	0.68
35:BN:10:VAL:H	35:BN:17:ARG:CG	2.05	0.68
35:BN:97:ARG:HH11	35:BN:98:VAL:CA	2.05	0.68
36:BO:113:LYS:HZ2	36:BO:115:LEU:CD1	2.04	0.68
37:BP:85:LYS:C	37:BP:87:LYS:N	2.46	0.68
38:BQ:56:LYS:O	38:BQ:57:ARG:C	2.32	0.68
39:BR:31:SER:O	39:BR:35:ILE:HB	1.93	0.68
46:BY:128:VAL:HG23	46:BY:164:ALA:HB2	1.75	0.68
46:BY:7:ALA:HB2	46:BY:38:TYR:CD1	2.28	0.68
32:BK:69:LYS:HA	32:BK:138:ILE:HD13	1.74	0.68
24:BA:2134:A:H2'	24:BA:2135:A:C5'	2.22	0.68
26:BC:10:LEU:HD11	26:BC:32:LEU:CB	2.22	0.68
1:AA:346:G:O2'	1:AA:347:G:H5'	1.94	0.68
1:AA:992:U:O4	1:AA:1043:C:OP2	2.11	0.68
1:AA:1230:C:O2	15:AP:126:LYS:HD3	1.94	0.68
1:AA:366:C:H4'	1:AA:367:U:OP1	1.94	0.68
1:AA:742:G:H2'	1:AA:743:U:O4'	1.94	0.68
1:AA:80:G:C2'	1:AA:81:G:O4'	2.35	0.68
3:AB:76:A:H4'	24:BA:2507:C:C4'	2.24	0.68
3:AD:2:C:H2'	3:AD:3:C:C6	2.29	0.68
4:AE:118:LEU:HD11	4:AE:141:GLU:OE2	1.93	0.68
4:AE:69:LEU:HB2	4:AE:159:PRO:HB2	1.76	0.68
4:AE:96:ARG:O	4:AE:98:LEU:HD22	1.94	0.68
5:AF:143:GLU:O	5:AF:145:GLY:N	2.27	0.68
5:AF:151:VAL:HG12	5:AF:152:ILE:N	2.09	0.68
5:AF:52:LEU:O	5:AF:53:ALA:HB2	1.93	0.68
7:AH:12:LEU:HD13	7:AH:30:ALA:HA	1.75	0.68
7:AH:135:THR:O	7:AH:139:LEU:HD12	1.94	0.68
7:AH:56:GLN:NE2	7:AH:56:GLN:H	1.92	0.68
8:AI:11:ASN:HD22	8:AI:86:ARG:HH22	1.41	0.68
12:AM:27:ALA:HB2	12:AM:85:LEU:HD11	1.76	0.68
14:AO:52:LEU:N	14:AO:52:LEU:HD23	2.09	0.68
14:AO:84:LEU:CG	14:AO:85:ILE:N	2.56	0.68
14:AO:85:ILE:HD11	14:AO:98:TYR:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:67:GLU:HG3	15:AP:68:GLY:H	1.59	0.68
18:AS:82:GLN:O	18:AS:82:GLN:HG3	1.94	0.68
20:AU:74:ARG:CA	20:AU:79:LEU:HD11	2.23	0.68
49:B2:55:ARG:HA	49:B2:55:ARG:NH2	2.09	0.68
50:B3:68:ARG:CD	50:B3:68:ARG:N	2.55	0.68
50:B3:68:ARG:H	50:B3:68:ARG:HD3	1.56	0.68
55:B8:22:ARG:HB3	55:B8:24:TYR:CD1	2.28	0.68
24:BA:1051:G:H4'	24:BA:2752:C:O4'	1.94	0.68
24:BA:1174:A:N6	24:BA:1177:A:C2	2.61	0.68
24:BA:974:G:O2'	24:BA:1186:G:C4	2.45	0.68
24:BA:1206:G:C3'	24:BA:1206:G:C8	2.70	0.68
24:BA:1263:U:H5	24:BA:1265:A:H61	1.40	0.68
24:BA:128:C:C2	24:BA:129:C:C5	2.82	0.68
24:BA:1451:C:O4'	24:BA:1451:C:OP2	2.11	0.68
24:BA:1497:U:O4	24:BA:1577:C:C4'	2.42	0.68
24:BA:1291:C:H4'	24:BA:1535:U:O3'	1.93	0.68
24:BA:1670:C:P	24:BA:1671:U:OP2	2.51	0.68
24:BA:1700:A:O3'	24:BA:1700:A:OP1	2.11	0.68
24:BA:1711:C:H2'	24:BA:1712:C:C6	2.29	0.68
24:BA:2067:G:H5''	24:BA:2068:U:OP2	1.93	0.68
24:BA:2246:G:C2	24:BA:2247:A:C6	2.82	0.68
24:BA:230:U:H2'	24:BA:231:C:H6	1.59	0.68
24:BA:2436:G:C6	24:BA:2437:U:C4	2.82	0.68
24:BA:645:C:H5'	24:BA:646:A:OP1	1.94	0.68
24:BA:969:U:C2'	24:BA:970:C:H5'	2.23	0.68
24:BA:972:G:OP1	24:BA:974(A):C:H3'	1.94	0.68
24:BA:974(A):C:O2	24:BA:1186:G:N1	2.21	0.68
24:BA:997:G:C5'	41:BT:92:ARG:HD2	2.24	0.68
27:BD:107:ALA:N	27:BD:108:PRO:HD3	2.08	0.68
27:BD:180:GLY:O	27:BD:270:ILE:HG21	1.93	0.68
27:BD:159:ALA:CA	27:BD:196:VAL:HG11	2.23	0.68
27:BD:201:HIS:HD2	27:BD:202:LYS:HE2	1.57	0.68
24:BA:764:A:OP1	27:BD:211:ARG:HA	1.94	0.68
30:BG:135:LEU:HD11	30:BG:137:GLU:C	2.14	0.68
31:BH:118:PRO:N	31:BH:121:ILE:HG21	2.08	0.68
33:BL:108:ALA:HB1	33:BL:123:ALA:HB3	1.76	0.68
34:BM:74:ARG:O	34:BM:75:TYR:C	2.31	0.68
35:BN:10:VAL:O	35:BN:11:ALA:CB	2.42	0.68
38:BQ:47:PHE:C	38:BQ:49:ASP:N	2.43	0.68
39:BR:92:TYR:OH	39:BR:93:LYS:HD3	1.94	0.68
45:BX:35:TYR:CE1	45:BX:65:ALA:O	2.47	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:116:VAL:HG21	46:BY:145:GLU:HG2	1.76	0.68
47:BZ:51:VAL:HG11	47:BZ:79:VAL:HG21	1.74	0.68
1:AA:345:C:H5''	1:AA:346:G:OP1	1.93	0.68
1:AA:1211:U:O2'	1:AA:1213:A:H1'	1.92	0.68
1:AA:1285:A:H4'	1:AA:1286:A:C8	2.29	0.68
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.24	0.68
1:AA:1333:A:H2'	1:AA:1334:G:O4'	1.94	0.68
1:AA:137:C:C2	1:AA:227:G:N2	2.62	0.68
1:AA:834:C:O2'	1:AA:835:U:C5'	2.42	0.68
1:AA:900:A:C8	1:AA:901:A:N7	2.62	0.68
4:AE:144:ARG:HD3	4:AE:148:TYR:CZ	2.29	0.68
6:AG:148:VAL:HB	6:AG:181:MET:CE	2.17	0.68
8:AI:6:VAL:O	8:AI:6:VAL:CG1	2.42	0.68
10:AK:115:SER:O	10:AK:116:LYS:HD2	1.94	0.68
11:AL:15:ALA:HB1	11:AL:77:ILE:CG1	2.24	0.68
1:AA:1307:U:H5''	15:AP:101:GLN:HE21	1.59	0.68
15:AP:15:VAL:HG11	15:AP:39:ILE:CD1	2.24	0.68
15:AP:91:ARG:CB	15:AP:98:VAL:HG13	2.24	0.68
18:AS:20:VAL:HG13	18:AS:21:VAL:H	1.59	0.68
19:AT:75:ARG:NH1	19:AT:77:VAL:HG22	2.09	0.68
20:AU:38:GLU:O	20:AU:41:LYS:HB2	1.94	0.68
20:AU:43:PHE:C	20:AU:51:LEU:HD22	2.13	0.68
48:B1:45:ILE:CG1	48:B1:46:ARG:N	2.56	0.68
49:B2:29:ARG:HB2	49:B2:30:ARG:CZ	2.23	0.68
52:B5:52:VAL:HG12	52:B5:53:LYS:H	1.57	0.68
53:B6:43:THR:C	53:B6:45:ALA:N	2.47	0.68
54:B7:55:ALA:O	54:B7:58:ILE:HD12	1.93	0.68
24:BA:551:G:O5'	24:BA:1220:A:H2	1.77	0.68
24:BA:126:A:C2'	24:BA:127:A:H5'	2.24	0.68
24:BA:1321:A:H2'	24:BA:1321:A:N3	2.08	0.68
24:BA:2197:U:H2'	24:BA:2224:G:N2	2.08	0.68
24:BA:2360:A:OP2	24:BA:2360:A:C8	2.47	0.68
24:BA:2394:C:OP1	36:BO:57:THR:HG23	1.94	0.68
24:BA:2524:G:C5'	24:BA:2764:A:O2'	2.41	0.68
24:BA:2546:U:H4'	24:BA:2565:A:C2	2.28	0.68
24:BA:2589:A:H2'	24:BA:2590:A:H8	1.58	0.68
24:BA:2630:G:H5'	24:BA:2631:G:OP2	1.93	0.68
24:BA:2636:U:H4'	28:BE:79:ARG:NH2	2.07	0.68
24:BA:2767:C:C2	24:BA:2768:C:H5	2.12	0.68
24:BA:371:A:O2'	24:BA:372:G:P	2.51	0.68
24:BA:630:G:H1	24:BA:634:C:N4	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:667:U:H2'	24:BA:668:G:O4'	1.93	0.68
24:BA:685:A:O2'	24:BA:686:G:OP2	2.10	0.68
25:BB:14:U:C2'	25:BB:107:U:H1'	2.24	0.68
27:BD:180:GLY:O	27:BD:181:GLU:OE1	2.12	0.68
29:BF:18:ARG:HG2	29:BF:18:ARG:NH1	2.08	0.68
29:BF:201:VAL:CG1	29:BF:205:ARG:HH21	2.07	0.68
29:BF:81:PRO:HG2	29:BF:82:ILE:CD1	2.24	0.68
30:BG:18:GLU:CD	30:BG:22:ARG:HH11	1.97	0.68
34:BM:104:LYS:HD3	34:BM:117:PHE:CE2	2.29	0.68
36:BO:121:LYS:H	36:BO:122:PRO:HD3	1.56	0.68
37:BP:116:GLU:OE1	37:BP:119:ARG:HD3	1.93	0.68
37:BP:16:ARG:HG3	37:BP:72:LYS:CD	2.22	0.68
42:BU:11:GLN:OE1	42:BU:22:VAL:HB	1.93	0.68
44:BW:7:VAL:HG21	48:B1:31:ARG:HH22	1.59	0.68
25:BB:76:G:H1'	46:BY:75:ASN:HD21	1.59	0.68
47:BZ:26:TYR:O	47:BZ:67:VAL:HG21	1.94	0.68
47:BZ:70:GLN:HB3	47:BZ:78:TYR:O	1.94	0.68
32:BK:83:ALA:CB	32:BK:88:ILE:HA	2.22	0.68
3:AD:16:U:H4'	3:AD:18:G:C5'	2.24	0.68
3:AD:19:G:C2	3:AD:57:G:H1'	2.28	0.68
26:BC:123:VAL:O	26:BC:127:LEU:HB2	1.94	0.68
1:AA:1390:U:H2'	1:AA:1391:U:C5	2.29	0.68
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.29	0.68
1:AA:819:A:N6	1:AA:1529:G:N7	2.42	0.68
1:AA:191(D):U:H2'	1:AA:191(E):G:H8	1.59	0.68
1:AA:292:G:C5	1:AA:293:G:H1'	2.29	0.68
1:AA:425:G:N2	1:AA:426:G:H1'	2.08	0.68
1:AA:558:G:H2'	1:AA:559:A:C2	2.28	0.68
1:AA:570:G:H5'	1:AA:820:U:C1'	2.19	0.68
1:AA:792:A:N3	1:AA:794:A:C6	2.62	0.68
1:AA:968:A:H5''	1:AA:969:A:O5'	1.94	0.68
1:AA:999:U:H2'	1:AA:1000:A:O4'	1.93	0.68
4:AE:21:ARG:N	4:AE:21:ARG:HE	1.90	0.68
6:AG:120:LEU:HB2	6:AG:125:HIS:CD2	2.29	0.68
6:AG:204:ILE:HD12	6:AG:204:ILE:H	1.58	0.68
7:AH:86:ALA:HB3	7:AH:130:ASN:HD21	1.58	0.68
13:AN:106:LYS:HG2	13:AN:107:SER:H	1.59	0.68
13:AN:19:ALA:CB	13:AN:80:VAL:HG21	2.24	0.68
19:AT:104:LYS:HD3	19:AT:105:ALA:H	1.58	0.68
19:AT:88:TYR:O	19:AT:92:ARG:CB	2.41	0.68
19:AT:91:ARG:O	19:AT:94:ASN:HB2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:49:ALA:CB	20:AU:80:PRO:HD3	2.23	0.68
22:AW:31:SER:OG	22:AW:32:ALA:N	2.26	0.68
23:AX:6:ARG:HB3	23:AX:15:ARG:NH2	2.09	0.68
48:B1:36:ILE:HG12	48:B1:37:GLY:H	1.59	0.68
49:B2:3:ARG:CZ	49:B2:3:ARG:HB3	2.24	0.68
49:B2:6:VAL:CG1	49:B2:56:VAL:HA	2.23	0.68
50:B3:44:THR:HG22	50:B3:45:GLY:N	2.09	0.68
51:B4:15:ARG:CG	51:B4:16:ARG:N	2.56	0.68
52:B5:31:PRO:C	52:B5:32:ASN:HD22	1.97	0.68
52:B5:22:ALA:HB1	52:B5:39:TYR:HE2	1.59	0.68
55:B8:25:VAL:CB	55:B8:34:GLN:HB2	2.22	0.68
24:BA:1102:C:H2'	24:BA:1102:C:O2	1.93	0.68
24:BA:1271:G:O5'	24:BA:1272:A:OP1	2.10	0.68
24:BA:1341:U:OP2	24:BA:1397:U:C4	2.47	0.68
24:BA:1398:C:O2'	24:BA:1399:C:H5'	1.94	0.68
24:BA:1591:G:C6	24:BA:1592:C:N4	2.62	0.68
24:BA:1815:A:O2'	24:BA:1816:G:H4'	1.94	0.68
24:BA:1916:A:OP1	24:BA:1916:A:H3'	1.94	0.68
24:BA:1949:G:H2'	24:BA:1950:G:O4'	1.94	0.68
24:BA:2025:C:H2'	24:BA:2026:C:H6	1.58	0.68
24:BA:2314:C:H2'	24:BA:2315:G:C8	2.26	0.68
24:BA:2516:G:H2'	24:BA:2517:C:C6	2.29	0.68
24:BA:2615:U:C2	51:B4:7:PRO:HA	2.29	0.68
24:BA:2524:G:H5'	24:BA:2764:A:HO2'	1.58	0.68
24:BA:2792:G:C2	24:BA:2793:G:C5	2.81	0.68
24:BA:307:G:C2	24:BA:309:G:H5''	2.29	0.68
24:BA:298:G:O2'	24:BA:322:A:N1	2.24	0.68
24:BA:375:C:H2'	24:BA:376:C:C6	2.28	0.68
24:BA:668:G:C5	24:BA:670:A:N7	2.61	0.68
24:BA:746:A:C6	24:BA:2611:U:H4'	2.28	0.68
24:BA:846:C:H1'	24:BA:847:U:C5	2.29	0.68
24:BA:865:C:N4	24:BA:909:A:N6	2.37	0.68
24:BA:915:C:H2'	24:BA:916:G:H8	1.57	0.68
24:BA:972:G:C8	24:BA:973:A:H3'	2.29	0.68
25:BB:4:C:C2	25:BB:117:G:N2	2.61	0.68
27:BD:243:GLY:O	27:BD:244:ARG:CB	2.42	0.68
28:BE:176:ILE:CG2	28:BE:181:LEU:HB2	2.23	0.68
29:BF:110:LEU:HD23	29:BF:186:ILE:HD11	1.76	0.68
24:BA:450:G:H5'	29:BF:52:LYS:CD	2.23	0.68
30:BG:96:ARG:HA	30:BG:100:TRP:HZ3	1.59	0.68
30:BG:36:LYS:CB	30:BG:95:ARG:HD3	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:43:VAL:HG12	31:BH:44:VAL:N	2.08	0.68
35:BN:6:THR:HA	35:BN:7:TYR:HD1	1.55	0.68
40:BS:50:ILE:HB	40:BS:66:VAL:HB	0.84	0.68
42:BU:61:VAL:O	42:BU:62:LEU:HD23	1.94	0.68
45:BX:99:CYS:O	45:BX:101:LYS:HD2	1.94	0.68
46:BY:118:GLN:NE2	46:BY:120:ILE:HG23	2.09	0.68
32:BK:77:LEU:HD11	32:BK:140:LEU:CB	2.24	0.68
24:BA:2125:G:H22	24:BA:2172:U:H5'	1.60	0.68
26:BC:104:LEU:CD1	26:BC:130:ILE:HD11	2.23	0.68
26:BC:211:SER:HB2	26:BC:213:TYR:CZ	2.29	0.68
33:BL:14:ALA:CB	33:BL:45:THR:HB	2.24	0.68
1:AA:511:C:O2'	1:AA:512:U:H6	1.75	0.68
1:AA:1054:C:N4	3:AB:34:G:HO2'	1.92	0.67
1:AA:1287:A:N6	1:AA:1371:G:O4'	2.27	0.67
1:AA:208:U:H4'	1:AA:209:U:OP1	1.92	0.67
1:AA:323:U:H5'	22:AW:23:ARG:HB2	1.77	0.67
1:AA:518:C:O2'	1:AA:519:C:P	2.51	0.67
1:AA:692:U:H1'	1:AA:694:A:N7	2.09	0.67
1:AA:735:C:O2'	20:AU:75:ILE:HD13	1.94	0.67
1:AA:760:G:H1	19:AT:105:ALA:C	1.97	0.67
1:AA:775:G:C2	1:AA:776:G:N7	2.62	0.67
1:AA:858:G:N2	1:AA:869:G:C3'	2.55	0.67
1:AA:863:U:O2	1:AA:863:U:C2'	2.40	0.67
1:AA:872:A:HO2'	1:AA:873:A:P	2.17	0.67
1:AA:873:A:OP1	1:AA:873:A:H8	1.76	0.67
1:AA:900:A:H2'	1:AA:901:A:C8	2.29	0.67
3:AC:51:U:H2'	3:AC:52:G:C8	2.29	0.67
4:AE:173:ALA:HA	4:AE:176:GLU:HG3	1.76	0.67
4:AE:82:ARG:CA	4:AE:92:TYR:HE1	2.07	0.67
5:AF:22:TRP:HB3	5:AF:59:ARG:CB	2.24	0.67
5:AF:35:GLU:HA	5:AF:38:ARG:HG3	1.76	0.67
6:AG:104:VAL:HA	6:AG:107:ARG:HB2	1.74	0.67
6:AG:26:CYS:HA	6:AG:31:CYS:CB	2.23	0.67
6:AG:2:GLY:O	6:AG:4:TYR:N	2.25	0.67
6:AG:58:LEU:CD1	6:AG:59:ARG:HH11	2.07	0.67
7:AH:55:VAL:HG12	7:AH:56:GLN:N	2.08	0.67
9:AJ:74:GLU:HA	9:AJ:145:ALA:HB1	1.75	0.67
10:AK:109:ILE:CD1	10:AK:137:VAL:HB	2.23	0.67
10:AK:6:ILE:HG13	10:AK:85:ARG:CZ	2.24	0.67
10:AK:87:SER:CB	10:AK:93:VAL:H	2.08	0.67
12:AM:50:ILE:HB	16:AQ:41:ARG:HE	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:42:TRP:CE3	13:AN:43:SER:HA	2.28	0.67
14:AO:32:PHE:HB3	14:AO:84:LEU:HD21	1.74	0.67
1:AA:953:G:HO2'	15:AP:125:ARG:HA	1.58	0.67
15:AP:23:TYR:CD2	15:AP:70:LEU:HD13	2.29	0.67
1:AA:1202:G:H1'	16:AQ:29:ARG:HD2	1.75	0.67
17:AR:34:LEU:HD12	17:AR:35:ARG:N	2.09	0.67
22:AW:40:ALA:HB2	22:AW:55:ILE:HG21	1.75	0.67
50:B3:59:PHE:HD1	50:B3:60:GLN:HG2	1.60	0.67
52:B5:25:LYS:O	52:B5:26:ASN:ND2	2.27	0.67
24:BA:974:G:N3	24:BA:1186:G:N7	2.42	0.67
24:BA:1270:C:H5''	24:BA:1271:G:H5''	1.74	0.67
24:BA:1335:U:O2'	24:BA:1336:A:H5'	1.93	0.67
24:BA:1545(A):A:O5'	24:BA:1545(A):A:H8	1.75	0.67
24:BA:1669:A:C2	24:BA:1994:C:H1'	2.29	0.67
24:BA:1793:C:H42	24:BA:1825:A:N6	1.91	0.67
24:BA:1832:C:C4	24:BA:1833:U:C5	2.82	0.67
24:BA:2329:G:H2'	24:BA:2330:G:H8	1.58	0.67
24:BA:2532:G:N2	24:BA:2662:A:N1	2.41	0.67
24:BA:2872:G:N2	24:BA:2873:A:N1	2.42	0.67
24:BA:5:A:O2'	34:BM:134:ARG:NH1	2.26	0.67
24:BA:721:C:C2	24:BA:722:A:C8	2.82	0.67
24:BA:728:G:H1'	24:BA:729:G:C8	2.29	0.67
24:BA:848:G:H21	24:BA:933:A:C1'	2.07	0.67
25:BB:89:G:H2'	25:BB:89(A):A:N7	2.09	0.67
27:BD:210:GLY:N	27:BD:213:ARG:HE	1.92	0.67
27:BD:246:PRO:HG2	27:BD:250:TRP:CD1	2.29	0.67
24:BA:2227:A:O4'	27:BD:262:ARG:HD2	1.94	0.67
27:BD:44:ASN:HB2	27:BD:217:ARG:NH2	2.00	0.67
27:BD:59:LYS:HD2	27:BD:60:ARG:N	2.09	0.67
28:BE:105:THR:HG1	28:BE:106:GLY:H	1.42	0.67
28:BE:128:SER:C	28:BE:130:GLY:N	2.46	0.67
30:BG:153:ARG:HD2	30:BG:154:GLY:N	2.09	0.67
30:BG:37:VAL:HG13	30:BG:159:VAL:HA	1.77	0.67
31:BH:69:ARG:HG3	31:BH:69:ARG:HH21	1.59	0.67
24:BA:1137:G:H4'	34:BM:105:GLY:HA2	1.75	0.67
24:BA:558:G:H5''	34:BM:109:LYS:HD3	1.76	0.67
34:BM:13:TRP:O	34:BM:14:VAL:HG22	1.93	0.67
34:BM:17:ASP:HB3	34:BM:21:LYS:HE3	1.76	0.67
34:BM:37:LYS:CE	34:BM:43:THR:HA	2.24	0.67
34:BM:7:LYS:HZ2	34:BM:10:GLU:N	1.91	0.67
36:BO:114:ILE:HG21	36:BO:134:ALA:CB	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:132:VAL:HG12	37:BP:133:ARG:NH2	2.09	0.67
38:BQ:113:LEU:HD13	38:BQ:114:VAL:H	1.58	0.67
38:BQ:37:THR:H	38:BQ:40:LYS:HD2	1.58	0.67
38:BQ:3:HIS:ND1	38:BQ:4:LEU:N	2.42	0.67
39:BR:11:LYS:HB3	39:BR:15:ARG:HH22	1.58	0.67
41:BT:54:LYS:HE2	41:BT:54:LYS:N	2.09	0.67
24:BA:1225:C:O5'	42:BU:87:HIS:HE1	1.77	0.67
43:BV:33:ARG:HE	43:BV:33:ARG:CA	2.04	0.67
44:BW:43:VAL:HG11	44:BW:51:VAL:HG22	1.75	0.67
44:BW:7:VAL:HG22	48:B1:31:ARG:NH1	2.09	0.67
45:BX:14:LEU:O	45:BX:20:TYR:HA	1.95	0.67
32:BK:57:ARG:HG2	32:BK:61:ARG:HH21	1.59	0.67
26:BC:193:ILE:O	26:BC:197:GLU:HG3	1.94	0.67
1:AA:617:G:H4'	18:AS:44:THR:OG1	1.94	0.67
3:AC:44:G:N2	3:AC:45:U:H1'	2.09	0.67
24:BA:1886:C:C2	24:BA:1887:C:C5	2.82	0.67
1:AA:1053:G:C5'	1:AA:1054:C:H5'	2.20	0.67
1:AA:1407:C:H2'	1:AA:1408:A:C5'	2.24	0.67
1:AA:197:A:H62	1:AA:221:C:H5'	1.59	0.67
1:AA:403:C:O3'	6:AG:122:ARG:HD2	1.93	0.67
1:AA:608:A:H2'	1:AA:608:A:N3	2.08	0.67
1:AA:668:G:HO2'	17:AR:46:HIS:CE1	2.10	0.67
3:AB:74:C:C5	24:BA:2556:C:C1'	2.78	0.67
5:AF:118:GLN:O	5:AF:121:ALA:HB3	1.94	0.67
5:AF:70:VAL:HG12	5:AF:71:ALA:H	1.59	0.67
7:AH:79:GLU:CB	7:AH:91:LEU:O	2.42	0.67
8:AI:17:SER:O	8:AI:20:ALA:HB3	1.95	0.67
9:AJ:69:VAL:CB	9:AJ:104:LEU:HD11	2.25	0.67
10:AK:45:ILE:HB	10:AK:61:VAL:HG11	1.75	0.67
1:AA:1231:G:P	11:AL:127:LYS:HE2	2.34	0.67
12:AM:65:LEU:HD13	16:AQ:36:PHE:CE2	2.29	0.67
12:AM:42:THR:HG23	12:AM:68:HIS:HA	1.76	0.67
13:AN:104:GLN:NE2	13:AN:106:LYS:H	1.91	0.67
14:AO:53:ARG:HB3	14:AO:69:TYR:HE1	1.58	0.67
19:AT:35:VAL:CG1	19:AT:36:ILE:N	2.58	0.67
22:AW:88:VAL:HG12	22:AW:92:LEU:HD11	1.76	0.67
24:BA:1033:U:H5'	55:B8:16:VAL:CG2	2.23	0.67
24:BA:1023:U:C4	24:BA:1024:G:H1'	2.29	0.67
24:BA:1131:G:C1'	34:BM:82:LEU:HD11	2.24	0.67
24:BA:1208:C:N4	24:BA:1209:G:O6	2.28	0.67
24:BA:1225:C:O5'	42:BU:87:HIS:CE1	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1357:U:H2'	24:BA:1358:G:O4'	1.95	0.67
24:BA:1473:G:H2'	24:BA:1474:C:O4'	1.94	0.67
24:BA:1332:G:N7	24:BA:1609:A:N6	2.42	0.67
24:BA:740:U:H1'	24:BA:1784:A:C8	2.29	0.67
24:BA:1800:C:O2'	24:BA:1802:A:O4'	2.12	0.67
24:BA:1818:U:O2	24:BA:1818:U:H2'	1.94	0.67
24:BA:2089:U:H2'	24:BA:2090:G:C8	2.26	0.67
24:BA:2218:G:H4'	27:BD:186:HIS:NE2	2.09	0.67
24:BA:2411:A:H2'	24:BA:2412:A:C8	2.30	0.67
24:BA:257:A:O5'	24:BA:257:A:H8	1.77	0.67
24:BA:2687:U:C2	24:BA:2688:U:C6	2.82	0.67
24:BA:270(P):C:H5'	32:BK:45:LYS:CG	2.21	0.67
24:BA:270(Q):C:H2'	24:BA:270(R):G:H8	1.59	0.67
24:BA:2740:A:N6	24:BA:2764:A:C1'	2.57	0.67
24:BA:404:C:H4'	24:BA:406:G:C8	2.29	0.67
24:BA:417:C:H2'	24:BA:418:G:O4'	1.95	0.67
24:BA:572:A:H2	24:BA:2033:A:C2	2.13	0.67
24:BA:618:G:C8	24:BA:618(A):C:C5	2.81	0.67
24:BA:638:G:H2'	24:BA:639:U:C5'	2.24	0.67
24:BA:914:C:C6	24:BA:914:C:C3'	2.72	0.67
24:BA:988:A:O2'	24:BA:1157:G:H5'	1.94	0.67
24:BA:2210:G:N7	27:BD:150:LYS:HA	2.10	0.67
27:BD:224:ALA:H	27:BD:233:HIS:CE1	2.12	0.67
27:BD:23:GLU:HB3	27:BD:204:ILE:HG13	1.76	0.67
28:BE:102:VAL:O	28:BE:169:ASN:ND2	2.27	0.67
30:BG:135:LEU:HD21	30:BG:137:GLU:O	1.93	0.67
30:BG:139:LEU:CD1	30:BG:142:PRO:HB3	2.25	0.67
30:BG:181:ARG:NH2	30:BG:181:ARG:H	1.92	0.67
30:BG:20:ILE:HD12	30:BG:28:VAL:HG13	1.74	0.67
35:BN:26:LYS:HG3	35:BN:27:GLY:N	2.08	0.67
35:BN:62:VAL:HB	35:BN:82:ASN:O	1.94	0.67
39:BR:24:LEU:HG	39:BR:40:ILE:O	1.94	0.67
41:BT:104:GLN:O	41:BT:108:GLU:OE2	2.12	0.67
41:BT:98:LEU:HD12	41:BT:105:VAL:CG2	2.19	0.67
42:BU:61:VAL:CG1	42:BU:62:LEU:N	2.56	0.67
46:BY:152:ALA:CB	46:BY:168:GLU:HA	2.22	0.67
46:BY:177:PRO:CG	46:BY:178:GLU:H	2.07	0.67
26:BC:22:ILE:CD1	26:BC:226:PRO:HA	2.24	0.67
24:BA:275:G:O5'	24:BA:275:G:H8	1.77	0.67
3:AC:44:G:N1	3:AC:45:U:O2	2.27	0.67
1:AA:1308:U:H3'	15:AP:99:ARG:NH2	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1452:C:O4'	1:AA:1453:G:N2	2.27	0.67
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.95	0.67
1:AA:286:G:C5	1:AA:287:U:C5	2.83	0.67
1:AA:331:G:OP1	1:AA:332:G:C8	2.48	0.67
1:AA:454:C:H3'	1:AA:455:C:C5	2.29	0.67
1:AA:515:G:O6	1:AA:533:A:N7	2.27	0.67
1:AA:609:A:C4	1:AA:610:G:C8	2.82	0.67
1:AA:829:G:O2'	4:AE:26:PRO:CG	2.43	0.67
4:AE:47:THR:HG23	4:AE:51:LEU:HD21	1.76	0.67
6:AG:50:ARG:HG2	6:AG:51:PRO:CD	2.17	0.67
7:AH:140:ARG:NH1	7:AH:140:ARG:HB3	2.10	0.67
9:AJ:38:LEU:HA	9:AJ:41:ARG:HG3	1.76	0.67
1:AA:826:C:H5'	10:AK:12:ARG:HE	1.59	0.67
10:AK:13:ILE:CG2	10:AK:14:ARG:N	2.54	0.67
10:AK:89:PRO:HB3	10:AK:92:ARG:NH2	2.09	0.67
15:AP:3:ARG:NH1	30:BG:113:ARG:HG2	2.09	0.67
15:AP:14:ARG:HA	15:AP:45:VAL:H	1.60	0.67
15:AP:3:ARG:CG	15:AP:7:VAL:HA	2.24	0.67
17:AR:25:THR:O	17:AR:29:VAL:HG23	1.94	0.67
19:AT:29:HIS:CE1	19:AT:31:LEU:H	2.12	0.67
21:AV:36:ARG:HA	21:AV:71:LEU:CD1	2.23	0.67
22:AW:37:SER:O	22:AW:40:ALA:HB3	1.95	0.67
53:B6:31:LEU:O	53:B6:35:ARG:HG3	1.95	0.67
36:BO:45:LEU:HD22	54:B7:59:LYS:HD2	1.74	0.67
24:BA:1250:G:O2'	24:BA:1251:C:P	2.52	0.67
24:BA:1279:G:H2'	24:BA:1280:G:C8	2.29	0.67
24:BA:1354:A:H2'	24:BA:1355:G:H5'	1.75	0.67
24:BA:1700:A:H8	24:BA:1701:A:C8	2.12	0.67
24:BA:1858:G:N7	24:BA:1883:G:N1	2.42	0.67
24:BA:2031:A:H62	24:BA:2498:C:C1'	2.08	0.67
24:BA:2041:U:C2	24:BA:2042:A:C8	2.82	0.67
24:BA:2416:C:O2'	24:BA:2417:C:H5''	1.94	0.67
24:BA:2533:A:H2'	24:BA:2534:A:H8	1.59	0.67
24:BA:2578:G:N2	24:BA:2579:C:C2	2.62	0.67
24:BA:2776:A:C2	24:BA:2778:A:H2'	2.29	0.67
24:BA:775:G:H2'	24:BA:794:G:C8	2.28	0.67
24:BA:824:A:H3'	24:BA:825:C:C5	2.29	0.67
24:BA:832:G:OP1	36:BO:36:LYS:NZ	2.28	0.67
24:BA:851:U:O2'	49:B2:46:ASN:N	2.27	0.67
24:BA:917:A:C8	24:BA:918:A:C5'	2.78	0.67
24:BA:988:A:C3'	49:B2:10:LYS:NZ	2.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:78:A:O2'	25:BB:79:C:H5'	1.94	0.67
27:BD:169:GLU:CG	27:BD:184:LYS:HZ3	2.08	0.67
29:BF:103:LYS:O	29:BF:106:ARG:HG2	1.94	0.67
29:BF:70:THR:C	29:BF:72:ARG:N	2.41	0.67
30:BG:116:ASP:O	30:BG:118:ARG:N	2.27	0.67
30:BG:9:ARG:HG2	30:BG:13:GLU:OE1	1.95	0.67
31:BH:103:LEU:C	31:BH:105:LEU:HG	2.14	0.67
32:BK:31:LEU:HD13	32:BK:36:ALA:C	2.14	0.67
34:BM:95:PRO:O	34:BM:98:VAL:HG23	1.94	0.67
37:BP:66:ILE:CG2	37:BP:67:ARG:N	2.40	0.67
24:BA:2495:G:O3'	37:BP:83:MET:SD	2.52	0.67
40:BS:72:VAL:HB	40:BS:74:ARG:CZ	2.23	0.67
41:BT:111:GLU:HA	41:BT:114:LYS:HE3	1.74	0.67
43:BV:63:ASP:O	43:BV:64:MET:O	2.13	0.67
46:BY:42:VAL:HB	46:BY:43:GLU:CD	2.14	0.67
46:BY:27:VAL:HG21	46:BY:85:HIS:CE1	2.27	0.67
47:BZ:27:GLU:HB2	47:BZ:69:PHE:CE1	2.29	0.67
1:AA:339:C:H2'	1:AA:340:U:C6	2.28	0.67
2:A1:43:U:H2'	2:A1:44:U:C6	2.29	0.67
33:BL:14:ALA:O	33:BL:49:GLY:HA3	1.94	0.67
1:AA:1239:A:H1'	1:AA:1241:G:N9	2.08	0.67
1:AA:125:U:H2'	1:AA:126:G:C8	2.28	0.67
1:AA:1283:G:C2'	1:AA:1284:C:H5'	2.25	0.67
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.58	0.67
1:AA:251:G:H22	1:AA:272:C:H42	1.43	0.67
1:AA:112:G:H21	1:AA:354:G:H5'	1.60	0.67
5:AF:182:ILE:CA	5:AF:204:LEU:HG	2.21	0.67
6:AG:14:ARG:CD	6:AG:14:ARG:C	2.62	0.67
6:AG:61:LYS:CG	6:AG:207:TYR:HE1	2.06	0.67
7:AH:105:VAL:HG12	7:AH:106:PRO:N	2.09	0.67
7:AH:35:GLY:HA3	7:AH:41:VAL:HG13	1.75	0.67
8:AI:76:ALA:O	8:AI:79:LEU:HG	1.95	0.67
8:AI:81:ILE:O	8:AI:83:ASP:N	2.27	0.67
9:AJ:72:ARG:CB	9:AJ:72:ARG:HH11	2.07	0.67
10:AK:61:VAL:CG1	10:AK:62:TYR:N	2.56	0.67
11:AL:50:LEU:HD22	11:AL:51:ARG:NH1	2.10	0.67
11:AL:82:ALA:O	11:AL:85:LEU:HB3	1.94	0.67
14:AO:84:LEU:N	14:AO:104:VAL:HG11	2.10	0.67
14:AO:50:SER:O	14:AO:51:ALA:HB2	1.95	0.67
15:AP:59:TYR:CD2	15:AP:60:VAL:HG23	2.29	0.67
1:AA:1360:A:N7	16:AQ:17:LYS:HD3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:35:ARG:O	16:AQ:37:PHE:N	2.28	0.67
20:AU:55:ARG:HH11	20:AU:55:ARG:CB	2.06	0.67
49:B2:6:VAL:CG2	49:B2:35:ARG:HG3	2.13	0.67
49:B2:6:VAL:HG13	49:B2:56:VAL:HA	1.77	0.67
24:BA:1024:G:C6	24:BA:1025:G:C8	2.82	0.67
24:BA:1081:U:O4	24:BA:1086:A:H2	1.77	0.67
24:BA:1023:U:H5'	24:BA:1123:C:OP1	1.94	0.67
24:BA:1951:U:H2'	24:BA:1953:A:O5'	1.95	0.67
24:BA:1935:G:H2'	24:BA:1962:C:C4	2.28	0.67
24:BA:2015:A:H8	24:BA:2016:U:C6	2.12	0.67
24:BA:2018:G:H2'	24:BA:2019:A:O4'	1.94	0.67
24:BA:2227:A:H5''	27:BD:260:ARG:CD	2.24	0.67
24:BA:241:A:O2'	24:BA:242:G:H4'	1.95	0.67
24:BA:2484:G:H2'	24:BA:2485:G:H5'	1.74	0.67
24:BA:2561:A:H2'	24:BA:2562:U:O4'	1.93	0.67
24:BA:2581:G:C2	24:BA:2610:C:C6	2.82	0.67
24:BA:2746:U:C5'	31:BH:139:GLN:HA	2.24	0.67
24:BA:2748:A:N7	24:BA:2749:A:C6	2.63	0.67
24:BA:311:A:H62	24:BA:329:G:H5'	1.58	0.67
24:BA:482:A:N7	24:BA:506:G:N1	2.42	0.67
24:BA:543:C:H2'	24:BA:544:C:C5	2.30	0.67
24:BA:653:A:H3'	24:BA:654:A:O3'	1.94	0.67
24:BA:659:C:O2'	24:BA:660:G:H5'	1.93	0.67
24:BA:72:U:C2'	24:BA:73:A:OP1	2.42	0.67
24:BA:792:G:N7	24:BA:2440:C:H1'	2.10	0.67
24:BA:945:A:H2'	24:BA:946:G:O5'	1.94	0.67
27:BD:181:GLU:HA	27:BD:270:ILE:CD1	2.25	0.67
24:BA:675:A:C4'	29:BF:67:GLN:HE22	1.97	0.67
24:BA:1257:C:O2'	29:BF:83:PHE:HB2	1.95	0.67
30:BG:135:LEU:CD1	30:BG:137:GLU:H	2.08	0.67
24:BA:2314:C:H5'	30:BG:38:VAL:HG21	1.76	0.67
31:BH:25:LYS:HD3	31:BH:27:LYS:HD2	1.77	0.67
31:BH:87:LEU:HD21	31:BH:162:ILE:HG13	1.76	0.67
32:BK:25:TYR:O	32:BK:29:TYR:HB2	1.95	0.67
33:BL:109:LYS:O	33:BL:112:MET:HB2	1.94	0.67
33:BL:10:LEU:HD11	33:BL:41:PHE:CZ	2.28	0.67
34:BM:67:LEU:N	34:BM:87:LEU:HD21	2.09	0.67
35:BN:11:ALA:CB	35:BN:97:ARG:NH1	2.55	0.67
36:BO:114:ILE:HG21	36:BO:122:PRO:HA	1.75	0.67
36:BO:19:VAL:O	36:BO:19:VAL:HG23	1.94	0.67
41:BT:16:LYS:HG2	41:BT:20:LEU:HD21	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2020:A:OP2	41:BT:27:LEU:CD1	2.42	0.67
42:BU:15:GLU:CD	42:BU:16:PRO:HD2	2.15	0.67
45:BX:5:MET:SD	45:BX:33:LYS:HG2	2.34	0.67
45:BX:74:PRO:HB2	45:BX:101:LYS:N	2.10	0.67
45:BX:82:PRO:HD2	45:BX:96:ILE:HA	1.76	0.67
46:BY:109:ALA:C	46:BY:113:ALA:HB2	2.15	0.67
26:BC:43:VAL:HG13	26:BC:213:TYR:O	1.95	0.67
26:BC:68:LEU:HB3	26:BC:157:LYS:O	1.94	0.67
1:AA:1047:G:H5'	16:AQ:4:LYS:CD	2.24	0.67
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.29	0.67
1:AA:1429:C:C2	1:AA:1430:C:C5	2.82	0.67
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.29	0.67
1:AA:315:A:N1	1:AA:330:C:C6	2.62	0.67
1:AA:572:A:O5'	1:AA:573:A:OP2	2.11	0.67
1:AA:791:G:H2'	1:AA:792:A:C8	2.30	0.67
1:AA:834:C:N4	1:AA:853:G:C6	2.63	0.67
1:AA:959:A:C2'	1:AA:960:U:H4'	2.25	0.67
1:AA:989:C:H2'	1:AA:990:C:H5'	1.77	0.67
3:AB:52:G:OP1	24:BA:2471:C:O3'	2.12	0.67
4:AE:141:GLU:CD	4:AE:142:LEU:N	2.47	0.67
6:AG:113:SER:HB3	6:AG:116:GLN:HG3	1.75	0.67
7:AH:109:ILE:HG23	7:AH:110:LEU:N	2.10	0.67
10:AK:103:VAL:CB	10:AK:108:GLY:HA3	2.24	0.67
10:AK:109:ILE:HG13	10:AK:111:ILE:HD11	1.77	0.67
10:AK:36:LEU:O	10:AK:39:LEU:HB3	1.94	0.67
10:AK:77:GLU:OE2	10:AK:78:GLN:N	2.28	0.67
11:AL:77:ILE:O	11:AL:81:ILE:HG13	1.95	0.67
1:AA:563:A:H3'	14:AO:15:ARG:NH1	2.09	0.67
17:AR:16:ALA:CB	17:AR:21:ASP:HB3	2.17	0.67
19:AT:57:VAL:HG23	19:AT:58:GLU:N	2.10	0.67
19:AT:59:ILE:HD11	19:AT:72:ARG:N	2.09	0.67
8:AI:60:PHE:CE2	20:AU:78:LEU:HD21	2.29	0.67
51:B4:51:TYR:C	51:B4:51:TYR:CD2	2.67	0.67
52:B5:17:LYS:HE3	52:B5:48:VAL:HG11	1.76	0.67
53:B6:9:ARG:O	53:B6:13:ALA:CB	2.43	0.67
54:B7:30:ARG:NH2	54:B7:41:ILE:O	2.27	0.67
55:B8:10:ILE:CD1	55:B8:32:HIS:HD2	2.07	0.67
24:BA:115:C:O2'	24:BA:116:C:H5'	1.95	0.67
24:BA:118:A:O2'	24:BA:178:G:H5'	1.94	0.67
24:BA:1373:A:H2'	24:BA:1374:G:C8	2.30	0.67
24:BA:1431:U:O2'	24:BA:1432:C:H5'	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:171:G:H2'	24:BA:172:C:C5	2.29	0.67
24:BA:2226:C:C2	27:BD:262:ARG:CZ	2.76	0.67
24:BA:2667:C:C5	24:BA:2668:G:C8	2.82	0.67
24:BA:1456:G:H1	24:BA:2703:C:N4	1.91	0.67
24:BA:2809:A:C4'	24:BA:2811:G:N7	2.58	0.67
24:BA:1710:C:H1'	24:BA:2858:C:H42	1.60	0.67
24:BA:2789:C:C2'	24:BA:2893:G:H22	2.07	0.67
24:BA:38:A:H1'	29:BF:48:THR:HB	1.76	0.67
24:BA:455:C:OP1	24:BA:472:A:N1	2.27	0.67
24:BA:64:A:H5'	44:BW:73:ARG:HA	1.75	0.67
24:BA:894:C:H2'	24:BA:895:U:C6	2.29	0.67
24:BA:7:G:O2'	24:BA:8:A:H5'	1.93	0.67
28:BE:8:LYS:HB3	28:BE:24:THR:CB	2.23	0.67
29:BF:121:GLY:O	29:BF:191:ARG:HG3	1.93	0.67
29:BF:64:ILE:CG2	29:BF:78:ILE:HB	2.24	0.67
30:BG:151:ALA:O	30:BG:152:LEU:HD23	1.94	0.67
30:BG:77:ILE:HG13	30:BG:78:SER:N	2.10	0.67
30:BG:68:PRO:HG3	30:BG:90:LEU:HD21	1.76	0.67
31:BH:97:ARG:H	31:BH:104:GLU:HB2	1.57	0.67
31:BH:8:PRO:CA	31:BH:51:ARG:NH1	2.57	0.67
31:BH:65:HIS:O	31:BH:69:ARG:HG2	1.95	0.67
33:BL:77:LEU:O	33:BL:77:LEU:HD13	1.94	0.67
34:BM:103:VAL:HG22	34:BM:104:LYS:HD3	1.75	0.67
34:BM:87:LEU:HD23	34:BM:88:GLU:OE2	1.94	0.67
34:BM:7:LYS:HE3	34:BM:8:GLN:H	1.57	0.67
35:BN:59:LYS:CA	35:BN:86:ILE:HD12	2.20	0.67
35:BN:97:ARG:NH1	35:BN:98:VAL:N	2.42	0.67
38:BQ:26:LYS:HE2	38:BQ:70:LEU:HA	1.77	0.67
38:BQ:44:LEU:O	38:BQ:48:VAL:HG23	1.93	0.67
38:BQ:6:SER:OG	38:BQ:9:LYS:NZ	2.27	0.67
40:BS:70:VAL:HG21	40:BS:74:ARG:HD3	1.76	0.67
41:BT:79:PHE:O	41:BT:83:LEU:HD12	1.94	0.67
41:BT:84:LYS:HE2	41:BT:84:LYS:CA	2.25	0.67
43:BV:16:LYS:N	43:BV:16:LYS:HD3	2.05	0.67
43:BV:28:SER:CA	43:BV:70:TYR:HA	2.23	0.67
43:BV:82:LEU:H	43:BV:98:LYS:NZ	1.92	0.67
44:BW:30:VAL:O	44:BW:77:LYS:HB3	1.94	0.67
45:BX:29:GLU:OE1	45:BX:34:LYS:HD2	1.95	0.67
45:BX:39:VAL:O	45:BX:40:GLU:CB	2.42	0.67
45:BX:6:HIS:HD2	45:BX:67:LEU:HD11	1.60	0.67
46:BY:4:ARG:NH2	46:BY:88:PHE:HE1	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:7:GLU:CA	48:B1:10:LYS:HG2	2.25	0.67
1:AA:1002:G:OP2	1:AA:1002:G:O4'	2.12	0.67
1:AA:1307:U:H5''	15:AP:101:GLN:NE2	2.09	0.67
1:AA:1367:C:OP1	11:AL:115:GLY:N	2.28	0.67
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.56	0.67
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.09	0.67
1:AA:1518:A:O5'	1:AA:1518:A:H8	1.78	0.67
1:AA:300:A:H2'	1:AA:301:G:H5'	1.77	0.67
1:AA:373:A:N7	1:AA:482:A:N7	2.42	0.67
1:AA:748:C:H6	1:AA:748:C:O5'	1.76	0.67
1:AA:870:U:H5'	1:AA:871:U:OP1	1.94	0.67
3:AC:33:U:C2	3:AC:35:A:OP2	2.47	0.67
3:AC:75:C:O2	24:BA:2252:G:N2	2.28	0.67
4:AE:175:ARG:O	4:AE:176:GLU:C	2.33	0.67
4:AE:92:TYR:O	4:AE:152:PHE:HB2	1.94	0.67
5:AF:55:VAL:HG13	5:AF:68:VAL:HG22	1.77	0.67
6:AG:10:ARG:NH1	6:AG:14:ARG:HB2	2.10	0.67
6:AG:148:VAL:CG2	6:AG:162:LEU:HD21	2.24	0.67
6:AG:190:ASP:O	6:AG:193:ASP:OD1	2.12	0.67
1:AA:9:G:OP2	7:AH:121:LYS:HA	1.94	0.67
9:AJ:42:ILE:HG22	9:AJ:120:ILE:CD1	2.25	0.67
9:AJ:70:LYS:HA	9:AJ:100:ALA:CB	2.25	0.67
10:AK:51:VAL:HG21	10:AK:60:ARG:NH2	2.09	0.67
10:AK:88:LYS:N	10:AK:88:LYS:NZ	2.42	0.67
11:AL:83:ARG:O	11:AL:86:VAL:HB	1.94	0.67
11:AL:93:ARG:NH2	11:AL:97:LYS:HG2	2.10	0.67
1:AA:972:C:P	12:AM:57:LYS:HZ2	2.18	0.67
12:AM:7:LYS:O	12:AM:97:GLU:CB	2.40	0.67
13:AN:54:ARG:NH1	13:AN:54:ARG:HG3	2.09	0.67
14:AO:100:ILE:C	14:AO:101:VAL:HG22	2.14	0.67
14:AO:117:ARG:HH21	14:AO:124:LYS:CA	1.97	0.67
14:AO:36:VAL:HG23	14:AO:81:SER:C	2.15	0.67
15:AP:34:LEU:CD2	15:AP:39:ILE:HG13	2.25	0.67
16:AQ:12:ARG:O	16:AQ:14:PRO:N	2.27	0.67
24:BA:1263:U:H5''	51:B4:10:LYS:HZ3	1.59	0.67
24:BA:1019:U:H5''	24:BA:1019:U:H6	1.60	0.67
24:BA:84:A:H1'	24:BA:103:A:N6	2.10	0.67
24:BA:1066:U:H1'	24:BA:1069:A:OP2	1.95	0.67
24:BA:1352:U:H1'	24:BA:1570:A:C2	2.28	0.67
24:BA:1391:U:H2'	24:BA:1391:U:O2	1.95	0.67
24:BA:1421:G:C2	24:BA:1422:G:N7	2.63	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1439:A:C2'	24:BA:1440:G:H5'	2.24	0.67
24:BA:1647:G:C4'	24:BA:1648:C:OP1	2.40	0.67
24:BA:1687:G:N1	24:BA:1688:U:C5	2.62	0.67
24:BA:1688:U:N3	24:BA:1700:A:H5''	2.10	0.67
24:BA:1750:G:O2'	24:BA:2860:A:N1	2.27	0.67
24:BA:1872:A:H2'	24:BA:1878:G:C5'	2.13	0.67
24:BA:2320:A:C8	24:BA:2320:A:OP1	2.47	0.67
24:BA:2405:G:O2'	24:BA:2406:U:H5''	1.95	0.67
24:BA:26:G:H22	24:BA:27:G:N2	1.91	0.67
24:BA:2858:C:H5'	24:BA:2859:G:OP2	1.94	0.67
24:BA:665:C:C2	24:BA:666:G:N7	2.62	0.67
24:BA:66:C:H2'	24:BA:67:U:O5'	1.93	0.67
24:BA:586:A:N1	24:BA:810:U:H5'	2.10	0.67
24:BA:866:A:N6	24:BA:913:U:O2'	2.21	0.67
27:BD:174:ILE:N	27:BD:174:ILE:HD12	2.09	0.67
28:BE:36:ARG:O	28:BE:44:TYR:CD2	2.48	0.67
24:BA:320:A:H2'	29:BF:136:THR:HG21	1.77	0.67
29:BF:156:LEU:O	29:BF:176:LEU:HB3	1.94	0.67
24:BA:586:A:C4'	29:BF:89:VAL:HG21	2.25	0.67
30:BG:131:TYR:HE1	30:BG:133:LEU:O	1.77	0.67
30:BG:16:ARG:HB3	30:BG:17:PRO:CD	2.25	0.67
30:BG:40:ASN:ND2	30:BG:41:GLN:N	2.42	0.67
30:BG:43:LEU:HD11	30:BG:88:ILE:O	1.93	0.67
32:BK:31:LEU:HD11	32:BK:36:ALA:CB	2.21	0.67
24:BA:1080:C:C1'	33:BL:126:MET:HA	2.24	0.67
33:BL:91:PRO:HB3	33:BL:134:MET:O	1.95	0.67
33:BL:12:LEU:HD13	33:BL:23:VAL:HG21	1.76	0.67
35:BN:34:THR:C	35:BN:61:VAL:HG11	2.15	0.67
35:BN:98:VAL:O	35:BN:98:VAL:HG23	1.93	0.67
36:BO:16:ARG:CG	36:BO:19:VAL:HG22	2.24	0.67
36:BO:52:GLU:HG3	54:B7:52:LYS:HD3	1.76	0.67
24:BA:2876:G:P	40:BS:2:ASN:HB3	2.35	0.67
40:BS:32:TYR:HB3	40:BS:87:ASP:O	1.95	0.67
40:BS:70:VAL:CB	40:BS:74:ARG:HD3	2.25	0.67
42:BU:30:GLY:O	42:BU:31:ALA:O	2.13	0.67
42:BU:34:GLU:O	42:BU:35:LEU:HD12	1.94	0.67
42:BU:83:ARG:CD	42:BU:83:ARG:C	2.63	0.67
43:BV:34:ASN:HA	43:BV:37:ARG:NE	2.05	0.67
24:BA:1341:U:O2'	44:BW:56:THR:N	2.28	0.67
46:BY:51:ALA:C	46:BY:53:ILE:H	1.94	0.67
47:BZ:59:LEU:CD2	47:BZ:79:VAL:HG21	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2114:A:O5'	24:BA:2114:A:H8	1.78	0.67
26:BC:209:LEU:HD21	26:BC:212:VAL:HB	1.77	0.67
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.27	0.67
1:AA:1113:C:C6	1:AA:1113:C:O5'	2.47	0.67
1:AA:1305:G:N2	1:AA:1331:G:H2'	2.09	0.67
1:AA:22:G:C2'	1:AA:23:C:H6	2.05	0.67
1:AA:55:A:H2'	1:AA:56:U:C5'	2.24	0.67
1:AA:642:A:N7	10:AK:115:SER:HA	2.08	0.67
1:AA:645:C:H2'	1:AA:646:U:H6	1.58	0.67
1:AA:665:A:C8	1:AA:733:A:C2	2.83	0.67
1:AA:894:G:C5	1:AA:895:G:N7	2.62	0.67
4:AE:112:VAL:HG22	4:AE:149:LEU:HD11	1.76	0.67
7:AH:12:LEU:HG	7:AH:129:ILE:HG12	1.77	0.67
9:AJ:15:ASP:H	9:AJ:20:ASP:N	1.92	0.67
9:AJ:94:ARG:HG3	9:AJ:94:ARG:HH11	1.59	0.67
9:AJ:94:ARG:HG3	9:AJ:94:ARG:NH1	2.09	0.67
11:AL:47:LEU:CD1	11:AL:51:ARG:HH22	2.05	0.67
13:AN:21:ILE:HG22	13:AN:30:VAL:HG22	1.76	0.67
16:AQ:24:CYS:SG	16:AQ:27:CYS:N	2.68	0.67
17:AR:16:ALA:HB1	17:AR:21:ASP:CB	2.17	0.67
24:BA:1224:G:H2'	42:BU:87:HIS:CD2	2.30	0.67
24:BA:1532:C:N4	24:BA:1540:G:N1	2.42	0.67
24:BA:1608:A:O2'	24:BA:1609:A:H5'	1.95	0.67
24:BA:1782:C:N4	24:BA:2587:A:H61	1.92	0.67
24:BA:1793:C:N4	24:BA:1825:A:N6	2.42	0.67
3:AB:12:U:H5'	24:BA:1915:U:H5'	1.75	0.67
24:BA:1942:C:H3'	24:BA:1942:C:P	2.35	0.67
24:BA:2207:C:H2'	24:BA:2208:U:C4'	2.23	0.67
24:BA:2437:U:H2'	24:BA:2438:U:C6	2.30	0.67
24:BA:2482:G:C2'	24:BA:2483:C:H5'	2.24	0.67
24:BA:1938:A:N3	24:BA:2590:A:H1'	2.09	0.67
24:BA:2592:G:C6	24:BA:2593:U:C4	2.83	0.67
24:BA:2711:A:OP1	24:BA:2712(A):A:P	2.53	0.67
24:BA:374:A:C3'	24:BA:375:C:H6	2.07	0.67
24:BA:388:G:N2	24:BA:390:A:C2	2.63	0.67
24:BA:371:A:C5'	24:BA:423:A:N7	2.54	0.67
24:BA:523:C:O2'	24:BA:524:U:H5'	1.95	0.67
24:BA:609:A:N1	24:BA:619:G:N3	2.42	0.67
24:BA:717:G:C2	24:BA:718:A:H1'	2.29	0.67
27:BD:181:GLU:HG2	27:BD:268:ARG:NE	2.10	0.67
28:BE:114:ALA:HB3	28:BE:118:LYS:CB	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:151:TYR:CZ	28:BE:152:LYS:HG3	2.30	0.67
28:BE:33:VAL:CG1	28:BE:48:GLN:HA	2.24	0.67
28:BE:49:LEU:HD13	28:BE:76:ARG:HG2	1.75	0.67
24:BA:673:C:C4'	29:BF:82:ILE:HD12	2.22	0.67
24:BA:2305:A:O3'	30:BG:136:ARG:HG2	1.95	0.67
31:BH:171:LEU:HA	31:BH:172:LYS:HZ2	1.60	0.67
24:BA:1076:C:O2'	33:BL:90:LYS:HD3	1.95	0.67
34:BM:103:VAL:CG2	34:BM:104:LYS:HD3	2.25	0.67
37:BP:124:LYS:O	37:BP:125:LEU:O	2.11	0.67
37:BP:16:ARG:CZ	37:BP:72:LYS:HA	2.24	0.67
37:BP:86:GLY:O	37:BP:87:LYS:HB3	1.94	0.67
40:BS:15:VAL:CG1	40:BS:81:PRO:HB3	2.24	0.67
42:BU:11:GLN:HE22	42:BU:24:LYS:CE	2.07	0.67
41:BT:94:ASN:HD22	42:BU:6:LYS:HZ1	1.42	0.67
32:BK:94:ALA:CB	32:BK:114:LEU:HD12	2.24	0.67
3:AD:58:A:C2'	3:AD:61:C:C5	2.77	0.67
24:BA:2168:G:N2	24:BA:2170:A:H3'	2.08	0.67
26:BC:60:GLY:O	26:BC:162:GLU:HG3	1.95	0.67
2:A1:20:G:O2'	2:A1:21:G:H5'	1.94	0.67
1:AA:1326:C:H2'	1:AA:1327:C:H6	1.60	0.67
1:AA:791:G:N2	1:AA:1498:U:P	2.64	0.67
1:AA:1528:U:H1'	1:AA:1529:G:H21	1.59	0.67
1:AA:255:G:O4'	19:AT:16:GLN:HB2	1.95	0.67
1:AA:394:G:H2'	1:AA:395:C:H6	1.58	0.67
1:AA:961:U:H2'	1:AA:962:C:O4'	1.95	0.67
3:AD:35:A:H2'	3:AD:36:A:O4'	1.94	0.67
4:AE:101:MET:HA	4:AE:108:ILE:CG1	2.25	0.67
4:AE:91:PRO:HB3	4:AE:152:PHE:CE1	2.30	0.67
1:AA:1347:G:C8	11:AL:107:ARG:HB3	2.28	0.67
14:AO:88:GLY:N	14:AO:98:TYR:HA	2.04	0.67
1:AA:581:G:H4'	17:AR:64:ARG:HH12	1.60	0.67
21:AV:30:LEU:HD12	21:AV:59:PRO:HA	1.75	0.67
21:AV:45:VAL:HG13	21:AV:64:GLU:HA	1.76	0.67
50:B3:57:GLU:HA	50:B3:61:ARG:NH1	2.10	0.67
50:B3:68:ARG:CB	50:B3:68:ARG:HH11	2.07	0.67
52:B5:17:LYS:HZ2	52:B5:50:ARG:HB2	1.58	0.67
54:B7:26:LYS:CA	54:B7:47:LYS:HG2	2.24	0.67
24:BA:1399:C:H2'	24:BA:1400:G:C8	2.29	0.67
24:BA:1568:G:O2'	24:BA:1569:A:OP2	2.11	0.67
24:BA:1647:G:OP2	24:BA:1647:G:H3'	1.95	0.67
24:BA:195:A:H2'	24:BA:198:C:H42	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2415:G:H5'	36:BO:61:ARG:CB	2.23	0.67
24:BA:2440:C:C5'	24:BA:2587:A:H4'	2.23	0.67
24:BA:2532:G:H2'	24:BA:2533:A:O4'	1.94	0.67
24:BA:330:A:C2	24:BA:1210:A:H2'	2.30	0.67
24:BA:519:U:H6	24:BA:519:U:C5'	2.06	0.67
24:BA:531:C:H5'	24:BA:532:A:N3	2.10	0.67
24:BA:559:G:H2'	24:BA:560:C:O4'	1.95	0.67
24:BA:565:C:H2'	24:BA:565:C:O2	1.95	0.67
24:BA:774:A:O2'	24:BA:775:G:H8	1.77	0.67
24:BA:881:G:H22	24:BA:896:A:N6	1.91	0.67
24:BA:976:C:O2	24:BA:977:G:C8	2.48	0.67
24:BA:988:A:OP1	49:B2:10:LYS:NZ	2.24	0.67
27:BD:196:VAL:HG12	27:BD:198:ASN:H	1.59	0.67
28:BE:27:LEU:HD11	28:BE:30:PRO:CD	2.23	0.67
30:BG:8:LYS:HZ1	30:BG:103:LEU:HG	1.56	0.67
30:BG:118:ARG:HG3	30:BG:119:GLY:N	2.10	0.67
30:BG:39:ILE:HG13	30:BG:157:ILE:HG13	1.77	0.67
30:BG:11:TYR:O	30:BG:15:VAL:HG22	1.95	0.67
31:BH:83:TYR:H	31:BH:136:ILE:HA	1.58	0.67
32:BK:5:LEU:HA	32:BK:36:ALA:HB2	1.76	0.67
34:BM:38:HIS:C	34:BM:42:TRP:HE3	1.97	0.67
34:BM:16:ILE:O	34:BM:54:VAL:HG23	1.94	0.67
36:BO:72:PRO:O	36:BO:111:ARG:NE	2.27	0.67
36:BO:47:ASP:OD1	36:BO:48:PRO:HD3	1.94	0.67
39:BR:64:GLU:CD	39:BR:67:ARG:HB3	2.15	0.67
40:BS:11:GLU:O	40:BS:12:SER:C	2.33	0.67
46:BY:9:TYR:HB3	46:BY:14:LYS:HZ3	1.58	0.67
26:BC:213:TYR:N	26:BC:213:TYR:CD1	2.63	0.67
1:AA:1129:C:N4	1:AA:1139:G:C5	2.62	0.67
1:AA:1396:A:O4'	1:AA:1398:A:H1'	1.95	0.67
1:AA:192:U:H2'	1:AA:193:C:H6	1.59	0.67
1:AA:295:C:N4	1:AA:303:A:N1	2.43	0.67
1:AA:329:A:O2'	1:AA:330:C:H5'	1.95	0.67
1:AA:698:G:H2'	1:AA:699:C:H6	1.58	0.67
1:AA:900:A:H2'	1:AA:901:A:H8	1.59	0.67
3:AB:50:U:H2'	3:AB:51:U:C6	2.30	0.67
3:AC:57:G:H1'	30:BG:82:LEU:CD1	2.24	0.67
3:AC:76:A:H3'	3:AC:76:A:OP1	1.95	0.67
4:AE:49:GLU:N	4:AE:49:GLU:OE2	2.28	0.67
5:AF:57:ILE:HG22	5:AF:59:ARG:NH2	2.10	0.67
6:AG:141:ARG:HH11	6:AG:142:PRO:HD2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:26:CYS:O	6:AG:33:MET:CG	2.43	0.67
8:AI:53:ALA:HB2	8:AI:86:ARG:HD2	1.77	0.67
1:AA:1231:G:OP1	11:AL:126:SER:OG	2.13	0.67
13:AN:110:ASP:HB2	20:AU:88:LYS:HD2	1.75	0.67
14:AO:114:LYS:O	14:AO:117:ARG:NH1	2.27	0.67
20:AU:61:LYS:HD2	20:AU:64:ARG:NH2	2.06	0.67
1:AA:194:C:H5''	22:AW:65:LYS:HZ3	1.60	0.67
22:AW:90:GLN:O	22:AW:93:GLU:HB2	1.94	0.67
54:B7:16:ILE:HD11	54:B7:60:LEU:HD22	1.76	0.67
24:BA:1025:G:H1'	24:BA:1134:G:O4'	1.95	0.67
24:BA:810:U:OP1	24:BA:1253:A:C5	2.46	0.67
24:BA:171:G:H2'	24:BA:172:C:C6	2.30	0.67
24:BA:1785:A:H8	24:BA:1785:A:OP2	1.75	0.67
24:BA:530:G:H1	24:BA:2022:U:P	2.17	0.67
24:BA:229:A:H5'	24:BA:230:U:OP1	1.95	0.67
24:BA:2362:G:O2'	24:BA:2363:C:H5'	1.94	0.67
24:BA:2369:A:H61	24:BA:2382:G:N2	1.93	0.67
24:BA:2394:C:N4	24:BA:2422:A:N6	2.43	0.67
24:BA:295:G:H3'	24:BA:338:G:H1	1.59	0.67
24:BA:378:C:O2'	24:BA:379:G:H5'	1.95	0.67
24:BA:370:G:N3	24:BA:424:G:N7	2.43	0.67
24:BA:541:C:H2'	24:BA:542:C:H6	1.57	0.67
24:BA:729:G:N9	24:BA:730:C:H1'	2.10	0.67
24:BA:959:A:C6	24:BA:960:A:N6	2.63	0.67
27:BD:252:TRP:CE3	27:BD:252:TRP:HA	2.29	0.67
27:BD:61:LEU:HD22	27:BD:63:ARG:HH22	1.60	0.67
27:BD:29:PRO:HB2	27:BD:82:ILE:O	1.94	0.67
28:BE:12:THR:HA	28:BE:22:PRO:HD2	1.76	0.67
24:BA:2787:C:H5'	28:BE:64:LYS:HB2	1.75	0.67
29:BF:109:GLY:O	29:BF:110:LEU:C	2.31	0.67
29:BF:192:LEU:HD22	29:BF:193:VAL:N	2.10	0.67
29:BF:78:ILE:HD13	29:BF:79:GLY:H	1.60	0.67
30:BG:55:LYS:HG3	30:BG:148:MET:SD	2.35	0.67
30:BG:93:THR:O	30:BG:93:THR:HG22	1.95	0.67
34:BM:55:VAL:HG22	34:BM:125:GLY:O	1.93	0.67
35:BN:31:LYS:O	35:BN:32:TYR:CD1	2.47	0.67
36:BO:113:LYS:CB	36:BO:129:ALA:HB1	2.25	0.67
36:BO:117:GLU:HG2	36:BO:118:GLY:N	2.10	0.67
36:BO:7:ARG:N	36:BO:7:ARG:HD2	2.10	0.67
37:BP:130:LYS:NZ	37:BP:132:VAL:HG13	2.10	0.67
37:BP:6:ARG:HG2	37:BP:70:PRO:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:9:ARG:CD	39:BR:12:PHE:HE2	2.07	0.67
40:BS:20:PRO:HB3	40:BS:22:PHE:CE1	2.30	0.67
40:BS:93:ARG:NE	40:BS:93:ARG:N	2.43	0.67
41:BT:84:LYS:HA	41:BT:84:LYS:HE2	1.77	0.67
42:BU:13:ARG:O	42:BU:14:VAL:HG22	1.93	0.67
43:BV:17:VAL:O	43:BV:20:VAL:CG1	2.38	0.67
46:BY:165:VAL:CG1	46:BY:166:SER:N	2.50	0.67
32:BK:132:PRO:HD2	32:BK:137:PRO:CA	2.22	0.67
6:AG:47:ARG:HB2	6:AG:47:ARG:HH11	1.60	0.67
24:BA:491:G:C2	24:BA:492:A:C4	2.83	0.67
10:AK:54:ASP:HB2	10:AK:56:LYS:HD3	1.77	0.67
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.60	0.67
2:A1:38:U:O2'	2:A1:39:U:O4'	2.13	0.67
1:AA:1138:G:C6	1:AA:1140:C:C6	2.83	0.67
1:AA:13:U:H5'	1:AA:14:U:OP2	1.95	0.67
1:AA:259:G:C2	1:AA:260:G:C4	2.83	0.67
1:AA:592:G:H2'	1:AA:593:G:H5'	1.76	0.67
4:AE:80:ILE:CD1	4:AE:212:GLN:HG2	2.25	0.67
4:AE:80:ILE:HD13	4:AE:211:ILE:CG2	2.25	0.67
5:AF:124:ILE:HG12	5:AF:130:VAL:HG22	1.75	0.67
5:AF:187:ALA:HB3	5:AF:198:VAL:HG22	1.76	0.67
6:AG:112:VAL:HG23	6:AG:161:ASN:HD21	1.60	0.67
6:AG:20:TYR:O	6:AG:26:CYS:SG	2.53	0.67
9:AJ:70:LYS:O	9:AJ:138:LYS:HE3	1.95	0.67
13:AN:63:LEU:HA	13:AN:66:LEU:HG	1.77	0.67
19:AT:21:VAL:HG22	19:AT:43:LEU:HA	1.76	0.67
19:AT:44:ALA:HA	19:AT:71:PHE:O	1.95	0.67
53:B6:26:GLY:O	53:B6:30:VAL:HG23	1.95	0.67
24:BA:1203:G:C5	24:BA:1240:U:N3	2.63	0.67
24:BA:1518:C:N4	24:BA:1519:G:C8	2.62	0.67
24:BA:1754:C:O2	24:BA:1755:A:C1'	2.38	0.67
24:BA:1859:A:H61	24:BA:1883:G:H2'	1.58	0.67
24:BA:2051:A:C1'	28:BE:141:ILE:HD11	2.25	0.67
24:BA:2320:A:OP2	24:BA:2320:A:H8	1.77	0.67
3:AB:52:G:C4'	24:BA:2471:C:C5'	2.72	0.67
24:BA:2550:G:C2	24:BA:2559:C:C2	2.83	0.67
24:BA:2623:G:N2	51:B4:22:HIS:CE1	2.52	0.67
24:BA:270:A:H2'	24:BA:270(A):A:C4'	2.25	0.67
24:BA:2742:C:H5''	55:B8:35:ARG:NH1	2.09	0.67
24:BA:401:A:N6	24:BA:423:A:C2	2.63	0.67
24:BA:27:G:N1	24:BA:512:G:C2'	2.56	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:563:G:N2	41:BT:34:LYS:NZ	2.42	0.67
24:BA:751:A:O4'	43:BV:90:ARG:HD3	1.95	0.67
24:BA:864:G:H2'	24:BA:865:C:O4'	1.95	0.67
25:BB:32:C:H5''	25:BB:33:G:OP2	1.95	0.67
25:BB:3:C:H2'	25:BB:4:C:H6	1.60	0.67
25:BB:63:G:H2'	25:BB:64:C:C6	2.30	0.67
25:BB:13:A:H61	25:BB:69:G:C2'	2.07	0.67
25:BB:75:G:H22	46:BY:87:ASP:CG	1.98	0.67
27:BD:154:LYS:O	27:BD:155:LEU:CB	2.42	0.67
27:BD:32:SER:O	27:BD:33:LEU:O	2.13	0.67
27:BD:45:ASN:OD1	27:BD:50:THR:HG23	1.94	0.67
27:BD:7:LYS:HG3	27:BD:27:THR:N	2.10	0.67
28:BE:147:PRO:CD	28:BE:148:GLY:H	2.04	0.67
29:BF:74:ARG:NH1	29:BF:75:HIS:CA	2.57	0.67
31:BH:137:ASP:HB3	31:BH:140:LYS:HG2	1.76	0.67
31:BH:9:ILE:HD11	31:BH:69:ARG:HH22	1.60	0.67
31:BH:26:VAL:HG12	31:BH:79:VAL:CG1	2.24	0.67
31:BH:87:LEU:H	31:BH:132:ARG:CB	2.08	0.67
35:BN:41:ALA:O	35:BN:56:ASP:HA	1.95	0.67
36:BO:96:THR:OG1	36:BO:102:ARG:HD3	1.95	0.67
38:BQ:5:LYS:NZ	38:BQ:6:SER:N	2.43	0.67
38:BQ:99:LYS:HG2	51:B4:43:HIS:CE1	2.29	0.67
41:BT:40:PHE:HD2	42:BU:78:LYS:HE2	1.60	0.67
41:BT:81:HIS:HB3	41:BT:117:GLN:NE2	2.09	0.67
42:BU:31:ALA:O	42:BU:33:VAL:N	2.28	0.67
43:BV:36:LEU:HD11	43:BV:47:VAL:CB	2.25	0.67
45:BX:36:ALA:HA	45:BX:64:GLU:HB2	1.77	0.67
45:BX:47:LYS:HD3	45:BX:49:VAL:CG2	2.19	0.67
47:BZ:40:GLN:HB3	47:BZ:45:PHE:CD1	2.30	0.67
47:BZ:37:LEU:HD21	47:BZ:60:PHE:HA	1.77	0.67
3:AD:20:U:C5	24:BA:2112:G:H1'	2.30	0.67
26:BC:49:ILE:HG13	26:BC:51:PRO:HD3	1.77	0.67
48:B1:2:ARG:CA	48:B1:5:LEU:HD13	2.23	0.67
46:BY:92:SER:O	46:BY:93:ASP:HB2	1.94	0.67
1:AA:1181:G:H2'	1:AA:1182:G:O4'	1.94	0.66
1:AA:1307:U:H6	1:AA:1307:U:O5'	1.77	0.66
1:AA:178:C:C2	1:AA:179:A:C8	2.84	0.66
1:AA:129(A):G:N2	1:AA:191(A):G:C8	2.63	0.66
1:AA:990:C:H2'	1:AA:991:U:C6	2.30	0.66
4:AE:83:MET:HB2	4:AE:234:PRO:HG3	1.75	0.66
8:AI:84:ASN:O	8:AI:86:ARG:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1228:C:H4'	15:AP:116:THR:CA	2.22	0.66
15:AP:48:LEU:HD11	15:AP:56:LEU:CD1	2.23	0.66
16:AQ:22:THR:O	16:AQ:23:ARG:HG2	1.94	0.66
17:AR:62:GLN:HA	17:AR:65:ARG:NH1	2.09	0.66
24:BA:2056:G:H21	51:B4:4:HIS:HD2	1.42	0.66
54:B7:6:THR:HG23	54:B7:9:GLY:HA3	1.75	0.66
24:BA:1205:U:H2'	24:BA:1206:G:N7	2.09	0.66
24:BA:1477:A:C3'	24:BA:1478:G:O4'	2.43	0.66
24:BA:1657:C:H2'	24:BA:1658:C:C6	2.26	0.66
24:BA:740:U:P	24:BA:1784:A:N1	2.68	0.66
24:BA:1794:U:C2	24:BA:1795:C:C5	2.83	0.66
24:BA:1832:C:C2'	24:BA:1833:U:H5'	2.25	0.66
24:BA:1931:U:H5	24:BA:1969:A:H62	1.41	0.66
24:BA:195:A:N6	24:BA:198:C:OP2	2.28	0.66
24:BA:2849:U:H3'	24:BA:2849:U:H6	1.58	0.66
24:BA:2868:A:O2'	24:BA:2869:G:H5'	1.94	0.66
24:BA:2893:G:OP2	24:BA:2893:G:H8	1.78	0.66
24:BA:61:G:H5'	48:B1:45:ILE:CD1	2.24	0.66
24:BA:663:G:H5'	36:BO:18:ARG:CB	2.20	0.66
24:BA:839:U:H2'	24:BA:840:C:H6	1.56	0.66
27:BD:133:LEU:O	27:BD:136:ILE:N	2.28	0.66
27:BD:208:LYS:NZ	27:BD:211:ARG:NH2	2.43	0.66
28:BE:154:LYS:HZ3	28:BE:156:MET:CE	2.08	0.66
28:BE:49:LEU:HD22	28:BE:76:ARG:O	1.95	0.66
28:BE:92:THR:C	28:BE:94:GLU:N	2.49	0.66
29:BF:122:LYS:CA	29:BF:122:LYS:HZ3	2.07	0.66
24:BA:321:G:OP2	29:BF:135:LYS:HE3	1.94	0.66
29:BF:184:TYR:N	29:BF:184:TYR:HD2	1.93	0.66
30:BG:56:ALA:O	30:BG:59:GLU:HG3	1.96	0.66
30:BG:60:LEU:CB	30:BG:66:GLN:O	2.41	0.66
31:BH:148:ILE:HG23	31:BH:162:ILE:CD1	2.26	0.66
33:BL:105:LEU:HD22	33:BL:124:ALA:CB	2.25	0.66
33:BL:12:LEU:CD2	33:BL:23:VAL:HG23	2.25	0.66
33:BL:66:THR:O	33:BL:67:PHE:CB	2.43	0.66
34:BM:23:LEU:HD23	34:BM:60:ILE:CG2	2.25	0.66
34:BM:55:VAL:HG21	34:BM:127:ASP:HA	1.76	0.66
36:BO:73:GLY:CA	36:BO:111:ARG:NH1	2.48	0.66
36:BO:73:GLY:HA2	36:BO:111:ARG:CZ	2.24	0.66
37:BP:94:VAL:CG2	37:BP:95:ALA:N	2.52	0.66
38:BQ:37:THR:O	38:BQ:40:LYS:HB2	1.95	0.66
39:BR:28:VAL:HA	39:BR:37:ALA:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:29:PHE:O	39:BR:29:PHE:CD1	2.48	0.66
40:BS:113:LYS:O	40:BS:116:ALA:HB3	1.95	0.66
40:BS:29:ARG:C	40:BS:30:VAL:HG12	2.14	0.66
40:BS:54:ARG:C	40:BS:55:ASN:CG	2.54	0.66
40:BS:71:GLY:N	40:BS:74:ARG:NH1	2.43	0.66
42:BU:60:GLU:HG3	42:BU:100:ARG:O	1.95	0.66
43:BV:42:ARG:HG3	43:BV:43:GLY:N	2.09	0.66
45:BX:37:VAL:HG22	45:BX:39:VAL:HG23	1.77	0.66
46:BY:127:LYS:HZ3	46:BY:165:VAL:HB	1.59	0.66
46:BY:10:ARG:CD	46:BY:36:LYS:HB2	2.25	0.66
32:BK:94:ALA:HA	32:BK:97:ILE:CG1	2.24	0.66
26:BC:62:VAL:HG21	26:BC:191:ALA:O	1.95	0.66
2:A1:51:U:H4'	2:A1:52:U:OP1	1.95	0.66
1:AA:1233:G:O2'	1:AA:1365:G:OP1	2.12	0.66
1:AA:1256:A:O3'	1:AA:1257:U:C4'	2.41	0.66
1:AA:173:U:H5''	1:AA:197:A:O2'	1.96	0.66
1:AA:51:A:O2'	1:AA:52:G:OP2	2.12	0.66
1:AA:592:G:C2'	1:AA:593:G:H5'	2.25	0.66
4:AE:219:VAL:CG1	4:AE:223:ILE:HD11	2.14	0.66
4:AE:61:LEU:HA	4:AE:64:ARG:CD	2.25	0.66
5:AF:94:LEU:O	5:AF:94:LEU:HD23	1.95	0.66
6:AG:147:ALA:CB	6:AG:181:MET:O	2.42	0.66
6:AG:61:LYS:CB	6:AG:203:VAL:HG13	2.24	0.66
7:AH:84:PHE:CZ	7:AH:133:TYR:CB	2.76	0.66
9:AJ:79:ARG:CD	9:AJ:84:ASN:HB3	2.25	0.66
10:AK:36:LEU:O	10:AK:39:LEU:CB	2.42	0.66
12:AM:90:LEU:H	12:AM:91:PRO:HD2	1.58	0.66
13:AN:66:LEU:CB	13:AN:70:LYS:HZ2	2.08	0.66
13:AN:78:GLN:OE1	13:AN:79:SER:N	2.27	0.66
14:AO:101:VAL:HG23	14:AO:104:VAL:CG2	2.25	0.66
16:AQ:52:GLN:C	16:AQ:53:LEU:HD23	2.16	0.66
8:AI:98:LEU:HG	20:AU:28:GLU:HG2	1.78	0.66
22:AW:12:ALA:O	22:AW:15:ARG:HG2	1.94	0.66
48:B1:38:GLN:N	48:B1:41:GLN:NE2	2.39	0.66
51:B4:48:GLU:N	51:B4:58:LEU:HG	2.10	0.66
24:BA:1198:U:H2'	24:BA:1199:U:H5	1.60	0.66
24:BA:1363:C:H2'	24:BA:1363:C:O2	1.95	0.66
24:BA:1500:G:H2'	24:BA:1501:C:C6	2.31	0.66
24:BA:1668:A:N7	24:BA:1674:G:C4	2.63	0.66
24:BA:1709:U:H6	24:BA:1709:U:H5'	1.61	0.66
24:BA:1363:C:O3'	24:BA:1809:A:C6	2.48	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1901:A:O2'	27:BD:244:ARG:NH1	2.27	0.66
24:BA:1919:A:O5'	24:BA:1919:A:C8	2.47	0.66
24:BA:1941:C:C2'	24:BA:1942:C:O5'	2.43	0.66
24:BA:2225:A:C5'	24:BA:2226:C:H6	2.08	0.66
24:BA:2280:G:C2	24:BA:2281:C:C5	2.84	0.66
24:BA:2286:A:C8	24:BA:2286:A:H3'	2.31	0.66
24:BA:2356:C:O2'	47:BZ:20:ARG:NE	2.27	0.66
24:BA:2602:A:C8	47:BZ:2:ALA:HB2	2.30	0.66
24:BA:2748:A:N7	24:BA:2749:A:N6	2.43	0.66
24:BA:2777:G:H3'	24:BA:2777:G:H8	1.59	0.66
24:BA:106:C:H1'	24:BA:294:A:H4'	1.76	0.66
24:BA:566:U:C6	24:BA:567:A:N7	2.63	0.66
27:BD:230:ASP:O	27:BD:231:HIS:C	2.33	0.66
28:BE:132:HIS:O	28:BE:133:LYS:HB2	1.95	0.66
28:BE:5:LEU:C	28:BE:5:LEU:HD22	2.15	0.66
28:BE:92:THR:HG22	28:BE:92:THR:O	1.94	0.66
24:BA:38:A:N3	29:BF:48:THR:HG21	2.10	0.66
30:BG:32:PRO:CB	30:BG:163:ALA:HA	2.24	0.66
31:BH:97:ARG:HB3	31:BH:97:ARG:NH2	2.11	0.66
33:BL:10:LEU:HD21	33:BL:57:ILE:CG1	2.23	0.66
33:BL:21:PRO:HA	33:BL:25:PRO:HD2	1.76	0.66
34:BM:128:HIS:O	34:BM:131:GLN:HB2	1.95	0.66
29:BF:31:HIS:CB	36:BO:14:LYS:HZ2	2.06	0.66
37:BP:42:ILE:CD1	37:BP:46:GLN:HE21	2.08	0.66
37:BP:85:LYS:HG3	37:BP:87:LYS:H	1.60	0.66
38:BQ:20:LEU:O	38:BQ:21:TYR:C	2.33	0.66
43:BV:35:ILE:HG13	51:B4:28:PRO:CG	2.25	0.66
46:BY:116:VAL:CG2	46:BY:145:GLU:HG2	2.25	0.66
26:BC:120:MET:HG3	26:BC:145:VAL:HG13	1.77	0.66
26:BC:89:ALA:HB1	26:BC:154:ARG:N	2.09	0.66
24:BA:439:G:H2'	24:BA:440:G:C8	2.30	0.66
1:AA:1200:C:H5''	1:AA:1201:A:H3'	1.77	0.66
1:AA:1333:A:H8	1:AA:1333:A:O5'	1.79	0.66
1:AA:1389:C:O2'	1:AA:1390:U:H5'	1.95	0.66
1:AA:1404:C:C1'	1:AA:1499:A:C2	2.78	0.66
1:AA:390:C:H2'	1:AA:391:G:H8	1.60	0.66
1:AA:47:C:O2'	1:AA:48:C:P	2.52	0.66
1:AA:571:U:H5''	1:AA:571:U:H6	1.58	0.66
1:AA:795:C:O5'	1:AA:795:C:H6	1.77	0.66
1:AA:946:A:C2'	1:AA:947:G:C8	2.75	0.66
3:AC:34:G:C4	3:AC:35:A:C8	2.83	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:55:U:H2'	3:AC:57:G:N7	2.10	0.66
1:AA:1206:G:H5'	5:AF:194:GLY:CA	2.23	0.66
5:AF:24:ALA:HB2	5:AF:32:LEU:HD12	1.76	0.66
6:AG:39:PRO:O	6:AG:44:GLY:HA3	1.95	0.66
7:AH:94:ALA:HB3	7:AH:117:ASP:C	2.15	0.66
9:AJ:87:VAL:HG13	9:AJ:152:ALA:CA	2.21	0.66
10:AK:82:HIS:O	10:AK:137:VAL:CA	2.41	0.66
10:AK:40:ALA:HB2	10:AK:45:ILE:CG1	2.24	0.66
11:AL:9:ARG:CD	11:AL:14:VAL:HG22	2.22	0.66
11:AL:40:LEU:C	11:AL:42:ARG:N	2.45	0.66
11:AL:98:PRO:C	11:AL:100:GLY:N	2.49	0.66
12:AM:23:ILE:HG23	12:AM:85:LEU:CD2	2.21	0.66
12:AM:11:PHE:CZ	12:AM:65:LEU:HG	2.31	0.66
13:AN:111:ASP:CG	13:AN:113:PRO:HD3	2.16	0.66
18:AS:4:ILE:CG2	18:AS:21:VAL:CG1	2.72	0.66
8:AI:50:TYR:OH	20:AU:77:GLY:CA	2.43	0.66
21:AV:40:ILE:C	21:AV:68:GLY:HA2	2.16	0.66
50:B3:5:ILE:HD11	50:B3:10:VAL:N	2.11	0.66
54:B7:26:LYS:NZ	54:B7:43:GLN:HA	2.10	0.66
24:BA:1024:G:C5	24:BA:1025:G:H8	2.12	0.66
24:BA:1222:C:C2'	24:BA:1223:C:H5'	2.25	0.66
24:BA:1378:A:H2'	24:BA:1380:G:N7	2.11	0.66
24:BA:1491:G:O4'	27:BD:99:ASP:HB2	1.96	0.66
24:BA:14:A:N7	24:BA:15:G:C4	2.63	0.66
24:BA:1996:C:O2	24:BA:1997:G:H4'	1.94	0.66
24:BA:961:C:C5	24:BA:2031:A:C2	2.84	0.66
24:BA:2209:C:O2'	24:BA:2210:G:H3'	1.95	0.66
24:BA:2439:A:H4'	24:BA:2440:C:C5'	2.26	0.66
24:BA:2507:C:C2	24:BA:2583:G:N3	2.62	0.66
24:BA:253:C:H2'	24:BA:254:G:H5'	1.76	0.66
24:BA:2593:U:H6	24:BA:2593:U:OP2	1.77	0.66
24:BA:2747:G:N2	24:BA:2754:U:N3	2.43	0.66
24:BA:310:A:H2'	24:BA:312:G:C8	2.29	0.66
24:BA:35:G:N2	24:BA:450:G:H21	1.92	0.66
24:BA:465:G:O6	24:BA:466:A:N6	2.29	0.66
24:BA:574:C:H1'	24:BA:2055:C:H5	1.59	0.66
24:BA:627:A:N6	24:BA:638:G:H1'	2.08	0.66
24:BA:750:A:H2'	43:BV:90:ARG:HH12	1.60	0.66
24:BA:752:A:H62	24:BA:1781:C:H1'	1.56	0.66
24:BA:779:U:H2'	24:BA:780:G:O4'	1.95	0.66
25:BB:55:U:H2'	25:BB:56:G:O4'	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:61:LEU:HD22	27:BD:63:ARG:HH21	1.59	0.66
28:BE:171:GLU:O	28:BE:184:VAL:HG12	1.95	0.66
28:BE:58:ARG:HH11	28:BE:75:VAL:CG1	2.08	0.66
29:BF:125:LEU:O	29:BF:126:VAL:HG12	1.96	0.66
29:BF:81:PRO:O	29:BF:83:PHE:N	2.26	0.66
30:BG:181:ARG:H	30:BG:181:ARG:CD	2.08	0.66
32:BK:5:LEU:N	32:BK:5:LEU:HD23	2.10	0.66
32:BK:6:LEU:HD22	32:BK:7:GLU:OE2	1.95	0.66
24:BA:1058:G:N2	33:BL:116:ASN:ND2	2.42	0.66
33:BL:10:LEU:HD11	33:BL:57:ILE:CD1	2.25	0.66
33:BL:72:PRO:O	33:BL:111:LYS:NZ	2.23	0.66
34:BM:37:LYS:HD2	34:BM:42:TRP:O	1.95	0.66
35:BN:11:ALA:HB1	35:BN:97:ARG:HH12	1.57	0.66
37:BP:137:TYR:CE2	46:BY:124:ILE:HD12	2.30	0.66
37:BP:16:ARG:NH1	37:BP:72:LYS:HA	2.11	0.66
38:BQ:5:LYS:HE2	38:BQ:5:LYS:CA	2.24	0.66
38:BQ:79:LEU:HD23	38:BQ:80:PHE:HA	1.77	0.66
40:BS:70:VAL:HB	40:BS:74:ARG:HD3	1.77	0.66
41:BT:99:ALA:HA	41:BT:106:PHE:CB	2.26	0.66
42:BU:6:LYS:NZ	42:BU:10:LYS:HD2	2.10	0.66
43:BV:25:ARG:HA	43:BV:71:VAL:CG1	2.24	0.66
44:BW:7:VAL:HG22	48:B1:31:ARG:HH12	1.59	0.66
45:BX:37:VAL:HG22	45:BX:39:VAL:CG2	2.25	0.66
45:BX:95:LYS:HE3	45:BX:103:GLY:N	2.11	0.66
24:BA:2178:C:H5''	26:BC:46:LYS:HZ2	1.60	0.66
48:B1:7:GLU:HA	48:B1:10:LYS:HG2	1.77	0.66
24:BA:181:A:H5'	24:BA:181:A:C8	2.30	0.66
39:BR:56:LEU:HD12	39:BR:59:LYS:HD2	1.77	0.66
3:AB:4:C:H2'	3:AB:5:G:C8	2.29	0.66
1:AA:1049:U:H1'	1:AA:1201:A:C8	2.30	0.66
1:AA:1181:G:C2'	1:AA:1182:G:H5'	2.26	0.66
1:AA:1191:A:N3	1:AA:1191:A:H2'	2.08	0.66
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.61	0.66
1:AA:1443:G:H4'	1:AA:1446:A:H5'	0.79	0.66
1:AA:185:A:H2'	1:AA:186:C:C6	2.30	0.66
1:AA:428:G:C2	1:AA:430:A:N6	2.64	0.66
1:AA:576:G:C8	1:AA:881:G:H1'	2.30	0.66
1:AA:647:C:C2	1:AA:648:A:C8	2.83	0.66
1:AA:686:U:O2'	1:AA:687:A:OP1	2.14	0.66
1:AA:794:A:H4'	1:AA:1521:G:O2'	1.94	0.66
1:AA:832:C:H2'	1:AA:833:U:C6	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:58:A:H4'	3:AB:59:U:OP1	1.95	0.66
3:AC:21:A:H2'	3:AC:22:G:O5'	1.95	0.66
3:AC:37:A:H2'	3:AC:38:A:C8	2.29	0.66
5:AF:94:LEU:O	5:AF:95:THR:HG23	1.96	0.66
6:AG:119:GLN:HG3	6:AG:123:HIS:CE1	2.31	0.66
7:AH:11:ILE:HB	7:AH:31:LEU:CD2	2.24	0.66
10:AK:126:LYS:HZ2	10:AK:127:LEU:HD23	1.58	0.66
10:AK:109:ILE:O	10:AK:136:GLU:HB2	1.95	0.66
10:AK:70:GLN:HB2	10:AK:73:ASP:O	1.95	0.66
13:AN:23:ALA:HB2	13:AN:28:THR:HG23	1.78	0.66
14:AO:27:LEU:HB2	14:AO:64:TYR:CZ	2.30	0.66
16:AQ:23:ARG:N	16:AQ:33:VAL:HG21	2.10	0.66
17:AR:71:GLN:HG3	17:AR:75:PRO:CB	2.20	0.66
18:AS:58:TYR:C	18:AS:58:TYR:CD1	2.68	0.66
19:AT:16:GLN:O	19:AT:17:LYS:HB2	1.95	0.66
49:B2:23:LEU:CA	49:B2:28:LEU:HD12	2.25	0.66
51:B4:12:SER:O	51:B4:13:LYS:C	2.31	0.66
52:B5:51:GLU:OE1	52:B5:52:VAL:HA	1.95	0.66
54:B7:15:LYS:NZ	54:B7:64:TYR:HB3	2.10	0.66
24:BA:2419:U:O4	54:B7:31:HIS:CE1	2.47	0.66
55:B8:25:VAL:HB	55:B8:34:GLN:CB	2.22	0.66
24:BA:1024:G:H3'	24:BA:1025:G:C5'	2.26	0.66
24:BA:124:G:OP1	24:BA:1376:C:H1'	1.95	0.66
24:BA:1394:U:H4'	24:BA:1603:A:C4'	2.25	0.66
24:BA:1528:A:N1	24:BA:1545:A:N1	2.43	0.66
24:BA:1538:G:H1	24:BA:1539:G:N2	1.92	0.66
24:BA:1674:G:O2'	24:BA:1676:A:N6	2.28	0.66
24:BA:1675:C:H5	28:BE:129:HIS:CD2	2.13	0.66
24:BA:1944:U:C1'	24:BA:1955:U:C6	2.78	0.66
24:BA:2244:U:O2'	24:BA:2434:A:N7	2.26	0.66
24:BA:2529:G:H5''	24:BA:2530:A:H5''	1.77	0.66
24:BA:2049:G:N2	24:BA:2620:C:C2	2.63	0.66
24:BA:270(B):A:H1'	24:BA:270(C):C:C6	2.30	0.66
24:BA:2711:A:C5'	24:BA:2712:U:H5'	2.25	0.66
24:BA:292:C:C6	24:BA:293:U:O4	2.49	0.66
24:BA:336:C:H2'	24:BA:337:C:C5'	2.25	0.66
24:BA:459:U:H5	24:BA:469:G:N2	1.94	0.66
24:BA:470:A:C6	24:BA:471:A:N3	2.63	0.66
24:BA:76:C:H4'	48:B1:54:ARG:HH21	1.60	0.66
24:BA:778:G:C2	24:BA:787:U:C2	2.83	0.66
24:BA:835:A:C4'	24:BA:2358:G:H1'	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:57:A:H8	25:BB:57:A:H3'	1.60	0.66
24:BA:1675:C:N4	28:BE:128:SER:OG	2.28	0.66
28:BE:156:MET:SD	28:BE:157:ALA:N	2.67	0.66
29:BF:117:ARG:NE	29:BF:190:GLU:O	2.29	0.66
29:BF:57:VAL:O	29:BF:58:ALA:O	2.12	0.66
31:BH:29:PRO:CD	31:BH:79:VAL:O	2.43	0.66
33:BL:101:TRP:HZ3	33:BL:105:LEU:HD11	1.60	0.66
33:BL:51:ALA:O	33:BL:80:LYS:HG2	1.95	0.66
34:BM:33:LEU:HD11	34:BM:52:VAL:HG21	1.77	0.66
35:BN:112:MET:O	35:BN:115:VAL:CB	2.41	0.66
37:BP:20:ALA:O	37:BP:21:THR:HB	1.94	0.66
39:BR:9:ARG:HD3	39:BR:12:PHE:CE2	2.24	0.66
40:BS:39:ARG:O	40:BS:42:ILE:HG13	1.96	0.66
41:BT:97:ASP:HB3	41:BT:101:ARG:NH2	2.10	0.66
42:BU:25:LEU:HA	42:BU:28:GLU:CD	2.16	0.66
43:BV:20:VAL:HG22	43:BV:24:ILE:CD1	2.21	0.66
45:BX:31:LEU:HB3	45:BX:32:PRO:HD2	1.76	0.66
45:BX:65:ALA:HB3	45:BX:66:PRO:CD	2.25	0.66
47:BZ:62:LEU:HD23	47:BZ:62:LEU:O	1.95	0.66
47:BZ:68:GLU:HB2	47:BZ:80:HIS:O	1.93	0.66
26:BC:56:GLN:O	26:BC:201:PRO:HG3	1.95	0.66
26:BC:22:ILE:HD11	26:BC:193:ILE:HD11	1.76	0.66
26:BC:27:HIS:CD2	26:BC:182:PRO:HB3	2.31	0.66
24:BA:80:G:O4'	24:BA:347:A:N6	2.28	0.66
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.25	0.66
1:AA:1157:A:N1	1:AA:1180:A:C4	2.63	0.66
1:AA:1373:G:H5''	9:AJ:36:LYS:HD2	1.76	0.66
1:AA:168:G:C6	1:AA:169:C:N4	2.63	0.66
1:AA:192:U:C2	1:AA:193:C:C5	2.83	0.66
1:AA:263:A:C8	1:AA:263:A:O5'	2.49	0.66
1:AA:363:A:C2'	1:AA:364:A:H5'	2.26	0.66
1:AA:671:G:H2'	1:AA:672:U:C1'	2.25	0.66
1:AA:67:C:O4'	1:AA:172:A:H1'	1.95	0.66
1:AA:705:U:C5	1:AA:706:A:N7	2.64	0.66
1:AA:821:G:O2'	1:AA:822:C:H5'	1.94	0.66
3:AB:29:G:H2'	3:AB:30:G:H8	1.60	0.66
4:AE:78:GLN:NE2	4:AE:96:ARG:NH2	2.43	0.66
8:AI:23:LYS:CA	8:AI:26:ILE:HD12	2.26	0.66
11:AL:23:ASN:ND2	11:AL:57:GLY:O	2.29	0.66
11:AL:26:VAL:HG13	11:AL:63:ILE:CD1	2.26	0.66
12:AM:52:GLY:H	12:AM:59:SER:HB2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:23:ILE:CG2	12:AM:85:LEU:HD23	2.21	0.66
13:AN:102:GLY:HA2	13:AN:105:VAL:CG2	2.24	0.66
13:AN:122:LYS:O	13:AN:126:ARG:HG3	1.96	0.66
14:AO:62:SER:O	14:AO:63:GLY:C	2.34	0.66
18:AS:73:LEU:O	18:AS:73:LEU:HD13	1.94	0.66
1:AA:760:G:H2'	19:AT:103:GLY:O	1.95	0.66
21:AV:40:ILE:HG13	21:AV:69:HIS:O	1.93	0.66
48:B1:23:LYS:HE3	48:B1:55:LEU:HD21	1.78	0.66
49:B2:11:SER:H	49:B2:12:PRO:CD	2.09	0.66
50:B3:41:PRO:CB	50:B3:58:ARG:HD2	2.26	0.66
24:BA:1071:G:N3	24:BA:1089:G:H2'	2.11	0.66
24:BA:1092:C:H3'	24:BA:1092:C:H6	1.59	0.66
24:BA:10:G:H2'	24:BA:11:G:C8	2.29	0.66
24:BA:1124:C:H3'	24:BA:1125:G:H8	1.60	0.66
24:BA:1604:C:O2'	24:BA:1605:C:H5'	1.95	0.66
24:BA:1679:U:H3	24:BA:1764:G:H5''	1.60	0.66
24:BA:152:G:N2	24:BA:175:G:H1'	2.10	0.66
24:BA:1824:G:N3	24:BA:1825:A:H1'	2.09	0.66
24:BA:2238:G:H1'	24:BA:2240:C:C5	2.31	0.66
24:BA:2312:U:P	30:BG:86:MET:HG2	2.36	0.66
24:BA:2331:G:H2'	24:BA:2332:U:C1'	2.26	0.66
24:BA:2564:A:C2'	24:BA:2565:A:C8	2.72	0.66
24:BA:2844:G:H2'	24:BA:2844:G:N3	2.09	0.66
24:BA:2876:G:H2'	24:BA:2877:G:H8	1.59	0.66
24:BA:476:G:N2	24:BA:478:A:H3'	2.10	0.66
24:BA:479:A:O2'	24:BA:480:A:H3'	1.96	0.66
24:BA:613:U:H5'	24:BA:614:U:C6	2.30	0.66
24:BA:627:A:C4'	24:BA:627:A:OP2	2.43	0.66
24:BA:848:G:H2'	24:BA:849:A:H8	1.57	0.66
24:BA:894:C:H2'	24:BA:895:U:H6	1.60	0.66
24:BA:99:U:H5'	24:BA:101:G:H5''	1.76	0.66
25:BB:110:G:C2	25:BB:111:U:H1'	2.31	0.66
25:BB:14:U:H6	25:BB:14:U:H3'	1.60	0.66
28:BE:102:VAL:CG2	28:BE:103:ASP:N	2.59	0.66
28:BE:172:VAL:O	28:BE:182:LEU:HD21	1.95	0.66
28:BE:13:ARG:HE	28:BE:21:VAL:C	1.99	0.66
29:BF:158:THR:HG23	29:BF:159:GLY:N	2.09	0.66
31:BH:149:ARG:HA	31:BH:162:ILE:HG21	1.77	0.66
31:BH:40:GLU:HG3	31:BH:61:HIS:NE2	2.11	0.66
32:BK:14:ASP:O	32:BK:15:VAL:O	2.13	0.66
32:BK:35:LEU:N	32:BK:35:LEU:HD22	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:104:LYS:HA	34:BM:117:PHE:HZ	1.59	0.66
34:BM:7:LYS:HE2	34:BM:39:ARG:HH22	1.61	0.66
24:BA:623:G:C3'	36:BO:105:LEU:HD22	2.24	0.66
37:BP:101:ARG:HH11	37:BP:101:ARG:CG	2.08	0.66
38:BQ:41:ALA:CB	38:BQ:114:VAL:HG21	2.22	0.66
39:BR:49:VAL:CB	39:BR:80:LEU:HG	2.25	0.66
40:BS:6:LEU:HD21	40:BS:7:ILE:HG23	1.78	0.66
44:BW:43:VAL:HG12	44:BW:51:VAL:HG22	1.76	0.66
47:BZ:41:ARG:HB3	47:BZ:41:ARG:HH11	1.56	0.66
3:AD:55:U:H1'	3:AD:58:A:N7	2.10	0.66
26:BC:120:MET:SD	26:BC:145:VAL:HG22	2.36	0.66
26:BC:103:ILE:CD1	26:BC:127:LEU:HD11	2.24	0.66
1:AA:937:A:H1'	1:AA:1379:G:N2	2.10	0.66
1:AA:236:G:H3'	1:AA:237:C:C6	2.30	0.66
1:AA:434:U:H2'	1:AA:435:C:H6	1.60	0.66
1:AA:872:A:H2'	1:AA:873:A:C5'	2.24	0.66
1:AA:908:A:C2	1:AA:909:A:N7	2.64	0.66
4:AE:164:VAL:HG22	4:AE:165:VAL:N	2.11	0.66
4:AE:194:PRO:O	4:AE:196:LEU:N	2.29	0.66
4:AE:185:ILE:CG2	4:AE:199:TYR:HB2	2.26	0.66
4:AE:84:GLU:N	4:AE:234:PRO:HG3	2.10	0.66
1:AA:829:G:O2'	4:AE:26:PRO:HG2	1.95	0.66
4:AE:96:ARG:HD2	4:AE:96:ARG:N	2.11	0.66
5:AF:187:ALA:HB3	5:AF:198:VAL:CG2	2.26	0.66
6:AG:117:ALA:O	6:AG:121:VAL:HG23	1.95	0.66
6:AG:16:GLY:O	6:AG:18:LYS:N	2.28	0.66
7:AH:61:TYR:HA	7:AH:64:ARG:CG	2.25	0.66
10:AK:101:PRO:O	10:AK:102:ARG:CB	2.43	0.66
10:AK:10:LEU:CD1	10:AK:85:ARG:HD3	2.21	0.66
11:AL:51:ARG:HH11	11:AL:51:ARG:CA	2.07	0.66
12:AM:8:LEU:HD22	12:AM:94:VAL:CG1	2.25	0.66
16:AQ:22:THR:CG2	16:AQ:33:VAL:HG23	2.26	0.66
20:AU:66:LEU:HD12	20:AU:67:ALA:CA	2.25	0.66
22:AW:25:ARG:HH11	22:AW:25:ARG:HG3	1.61	0.66
22:AW:61:SER:OG	22:AW:62:LEU:N	2.28	0.66
24:BA:1158:C:H5'	49:B2:31:LEU:HB3	1.78	0.66
50:B3:41:PRO:C	50:B3:58:ARG:HH11	1.99	0.66
52:B5:20:ASN:ND2	52:B5:43:CYS:H	1.91	0.66
24:BA:2742:C:OP1	55:B8:35:ARG:HD3	1.95	0.66
24:BA:1023:U:OP2	24:BA:1025:G:C6	2.49	0.66
24:BA:1069:A:H8	24:BA:1074:G:O6	1.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1027:A:H61	24:BA:1126:A:H1'	1.60	0.66
24:BA:1264:G:H5''	24:BA:1265:A:C5'	2.25	0.66
24:BA:1352:U:H2'	24:BA:1352:U:O2	1.94	0.66
24:BA:1386:C:H2'	24:BA:1387:C:C6	2.30	0.66
24:BA:1428:C:O2'	24:BA:1429:G:OP1	2.12	0.66
24:BA:1497:U:O4	24:BA:1577:C:O5'	2.14	0.66
24:BA:1779:U:H3'	24:BA:1779:U:H6	1.61	0.66
24:BA:1803:A:H8	24:BA:1803:A:OP2	1.79	0.66
24:BA:1952:A:C5	24:BA:1953:A:C2	2.84	0.66
24:BA:528:A:N1	24:BA:2043:C:OP2	2.29	0.66
24:BA:226:G:O2'	24:BA:228:A:N1	2.29	0.66
24:BA:2282:G:N2	24:BA:2427:C:N3	2.40	0.66
24:BA:2387:U:H1'	47:BZ:41:ARG:HH21	1.56	0.66
24:BA:2392:A:H2'	24:BA:2393:A:O5'	1.95	0.66
24:BA:2674:G:H5''	35:BN:26:LYS:HD2	1.78	0.66
24:BA:2832:U:H1'	24:BA:2834:G:N3	2.10	0.66
24:BA:2875:C:H2'	24:BA:2876:G:O4'	1.95	0.66
24:BA:301:G:OP1	24:BA:301:G:H4'	1.94	0.66
24:BA:459:U:H3'	53:B6:40:TRP:HH2	1.61	0.66
24:BA:573:G:O2'	24:BA:574:C:O5'	2.13	0.66
24:BA:733:G:C8	24:BA:761:A:N6	2.64	0.66
25:BB:75:G:H4'	46:BY:36:LYS:NZ	2.10	0.66
27:BD:147:LEU:CB	27:BD:185:VAL:HG22	2.16	0.66
27:BD:222:ARG:O	27:BD:225:ALA:HB2	1.96	0.66
28:BE:103:ASP:O	28:BE:104:VAL:CG2	2.43	0.66
28:BE:31:CYS:HB3	28:BE:32:PRO:HD2	1.78	0.66
29:BF:38:ARG:NH1	36:BO:10:PRO:CA	2.57	0.66
29:BF:45:ARG:HG3	29:BF:46:ARG:H	1.60	0.66
30:BG:18:GLU:OE1	30:BG:19:LEU:HD12	1.95	0.66
30:BG:74:LYS:HB3	30:BG:87:PRO:HG2	1.76	0.66
31:BH:105:LEU:CB	31:BH:113:VAL:HG11	2.23	0.66
31:BH:11:VAL:HB	31:BH:50:VAL:HG21	1.75	0.66
31:BH:13:LYS:HE3	31:BH:80:SER:HA	1.78	0.66
32:BK:2:LYS:NZ	32:BK:39:ALA:HB1	2.10	0.66
34:BM:100:GLU:CA	34:BM:103:VAL:HG13	2.26	0.66
34:BM:103:VAL:HG22	34:BM:104:LYS:CD	2.26	0.66
34:BM:14:VAL:HG13	34:BM:138:LEU:CB	2.21	0.66
37:BP:54:MET:HB3	37:BP:58:PHE:HE2	1.60	0.66
38:BQ:17:ARG:CG	38:BQ:18:LEU:H	2.09	0.66
39:BR:65:VAL:CG2	39:BR:66:ALA:N	2.58	0.66
39:BR:30:ARG:CG	39:BR:91:PRO:HG3	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:65:ARG:HA	44:BW:70:LEU:HD12	1.78	0.66
24:BA:2115:G:N3	24:BA:2117:A:N7	2.43	0.66
24:BA:2113:U:H3	24:BA:2169:A:N6	1.94	0.66
1:AA:1182:G:H4'	1:AA:1183:A:O5'	1.96	0.66
1:AA:1234:C:C5'	1:AA:1364:U:O2'	2.41	0.66
1:AA:198:G:O2'	1:AA:199:G:H5'	1.95	0.66
1:AA:250:A:O2'	1:AA:251:G:OP2	2.14	0.66
1:AA:380:G:N2	1:AA:382:A:H3'	2.11	0.66
1:AA:435:C:H2'	1:AA:436:C:O4'	1.94	0.66
1:AA:562:C:O2'	14:AO:15:ARG:HB3	1.96	0.66
1:AA:701:C:O2'	1:AA:702:A:OP2	2.12	0.66
1:AA:715:A:O2'	1:AA:716:A:H5'	1.96	0.66
1:AA:943:U:H2'	1:AA:944:G:C8	2.31	0.66
3:AB:75:C:C5	3:AB:76:A:H2	2.13	0.66
4:AE:17:PHE:CA	4:AE:42:ILE:HG22	2.25	0.66
6:AG:101:LEU:HD23	6:AG:135:LEU:O	1.96	0.66
6:AG:4:TYR:O	6:AG:5:ILE:HG23	1.96	0.66
7:AH:17:ALA:HA	7:AH:26:PHE:CD2	2.31	0.66
9:AJ:115:ARG:HG3	9:AJ:118:VAL:HG21	1.78	0.66
10:AK:31:PHE:O	10:AK:35:ILE:HG12	1.96	0.66
14:AO:34:ARG:HD3	14:AO:105:TYR:OH	1.95	0.66
14:AO:53:ARG:NE	14:AO:92:ASP:OD2	2.29	0.66
15:AP:18:ALA:HB2	15:AP:45:VAL:CG2	2.25	0.66
15:AP:67:GLU:CD	15:AP:68:GLY:N	2.49	0.66
16:AQ:45:ARG:CG	16:AQ:45:ARG:HH11	2.08	0.66
22:AW:66:ALA:O	22:AW:67:ALA:C	2.33	0.66
49:B2:40:THR:CG2	49:B2:42:ALA:HB3	2.26	0.66
50:B3:28:LYS:HB3	50:B3:29:PRO:HD2	1.78	0.66
50:B3:58:ARG:HD3	50:B3:59:PHE:CE2	2.30	0.66
53:B6:2:LYS:O	53:B6:4:THR:N	2.27	0.66
53:B6:30:VAL:HG13	53:B6:33:ARG:NH2	2.10	0.66
53:B6:33:ARG:O	53:B6:37:LYS:CB	2.43	0.66
53:B6:42:LEU:O	53:B6:45:ALA:CB	2.44	0.66
54:B7:12:LYS:O	54:B7:13:ARG:C	2.34	0.66
55:B8:32:HIS:O	55:B8:34:GLN:N	2.29	0.66
24:BA:1066:U:O2'	24:BA:1068:G:H8	1.78	0.66
24:BA:1174:A:C2'	24:BA:1175:U:H5''	2.17	0.66
24:BA:1347:G:O2'	24:BA:1348:G:H5'	1.95	0.66
24:BA:1359:A:N6	24:BA:1360:A:N7	2.44	0.66
24:BA:1591:G:C4	24:BA:1592:C:C5	2.83	0.66
24:BA:1667:G:O3'	35:BN:7:TYR:OH	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:195:A:N7	24:BA:197:A:OP1	2.29	0.66
24:BA:1971:A:C8	24:BA:1971:A:C3'	2.72	0.66
24:BA:46:C:N4	24:BA:214:G:H8	1.94	0.66
24:BA:2507:C:C4'	24:BA:2573:C:H41	2.09	0.66
24:BA:2568:C:H2'	24:BA:2569:G:C5'	2.24	0.66
24:BA:2834:G:O6	24:BA:2835:A:C2	2.47	0.66
24:BA:2848:G:H22	24:BA:2867:G:C1'	2.00	0.66
24:BA:503:A:N1	24:BA:505:A:N6	2.44	0.66
24:BA:526:A:H4'	24:BA:527:C:OP1	1.94	0.66
24:BA:566:U:H6	24:BA:567:A:N7	1.94	0.66
24:BA:704:G:N2	24:BA:726:G:HO2'	1.92	0.66
24:BA:824:A:H3'	24:BA:825:C:H5	1.59	0.66
24:BA:821:A:C8	24:BA:946:G:C5	2.83	0.66
24:BA:988:A:C4'	24:BA:1155:A:H2	2.07	0.66
24:BA:988:A:P	49:B2:10:LYS:HZ2	2.18	0.66
25:BB:61:G:N2	25:BB:62:C:C2	2.64	0.66
27:BD:209:ALA:O	27:BD:210:GLY:C	2.34	0.66
28:BE:169:ASN:ND2	28:BE:170:LEU:N	2.44	0.66
28:BE:173:VAL:HG11	28:BE:184:VAL:HA	1.77	0.66
28:BE:92:THR:HG23	28:BE:96:PHE:HB2	1.76	0.66
29:BF:39:TRP:CB	29:BF:101:LEU:HG	2.26	0.66
29:BF:200:GLU:OE1	29:BF:201:VAL:CG2	2.36	0.66
29:BF:44:ARG:HG3	29:BF:45:ARG:N	2.10	0.66
31:BH:103:LEU:HB3	31:BH:105:LEU:CD1	2.26	0.66
31:BH:28:GLY:HA3	31:BH:79:VAL:O	1.95	0.66
33:BL:8:VAL:HG22	33:BL:30:HIS:CG	2.30	0.66
34:BM:88:GLU:HB2	34:BM:89:LYS:HE2	1.78	0.66
35:BN:106:LEU:HD22	40:BS:39:ARG:CZ	2.25	0.66
24:BA:811:U:OP2	36:BO:28:GLY:HA3	1.95	0.66
39:BR:19:LYS:O	39:BR:20:ARG:C	2.34	0.66
43:BV:30:GLU:O	43:BV:33:ARG:HB3	1.95	0.66
45:BX:74:PRO:CB	45:BX:101:LYS:N	2.59	0.66
46:BY:123:ASP:H	46:BY:171:ILE:CD1	2.09	0.66
32:BK:128:LEU:HD23	32:BK:129:THR:H	1.61	0.66
32:BK:72:LEU:O	32:BK:140:LEU:HD21	1.96	0.66
26:BC:52:ARG:HG3	26:BC:53:ARG:HG3	1.78	0.66
24:BA:1116:C:OP2	24:BA:1116:C:H6	1.78	0.66
1:AA:1263:C:C2	1:AA:1264:C:C5	2.84	0.66
1:AA:1347:G:H3'	11:AL:107:ARG:C	2.16	0.66
1:AA:437:U:H2'	1:AA:438:G:O4'	1.96	0.66
1:AA:483:C:OP2	1:AA:484:G:H3'	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:582:U:OP1	17:AR:68:ARG:NH1	2.28	0.66
1:AA:967:C:H6	1:AA:967:C:O5'	1.78	0.66
3:AB:23:A:H2'	3:AB:24:G:O4'	1.96	0.66
3:AC:75:C:H6	3:AC:76:A:H4'	1.61	0.66
6:AG:11:LEU:CA	6:AG:14:ARG:HB3	2.26	0.66
6:AG:123:HIS:HB2	6:AG:125:HIS:CE1	2.31	0.66
10:AK:37:ARG:HD3	10:AK:41:ARG:CG	2.16	0.66
7:AH:152:ARG:HH21	10:AK:44:PHE:H	1.41	0.66
11:AL:101:PHE:CD1	11:AL:101:PHE:N	2.64	0.66
11:AL:37:PHE:N	11:AL:37:PHE:CD2	2.62	0.66
11:AL:53:VAL:HG11	11:AL:92:TYR:OH	1.96	0.66
12:AM:27:ALA:HB2	12:AM:85:LEU:CD1	2.26	0.66
13:AN:68:ALA:O	13:AN:71:LYS:HG3	1.94	0.66
1:AA:564:C:OP1	14:AO:15:ARG:NH2	2.29	0.66
14:AO:60:LEU:CD1	14:AO:64:TYR:HB3	2.26	0.66
15:AP:22:ILE:HB	15:AP:25:ILE:HD12	1.77	0.66
13:AN:110:ASP:CB	20:AU:88:LYS:HD2	2.26	0.66
21:AV:62:ILE:CD1	21:AV:67:VAL:HG13	2.26	0.66
22:AW:53:LEU:HD21	22:AW:92:LEU:HD13	1.78	0.66
22:AW:73:HIS:O	22:AW:76:ALA:N	2.19	0.66
44:BW:7:VAL:CG2	48:B1:28:MET:HG2	2.25	0.66
48:B1:35:SER:HA	48:B1:38:GLN:OE1	1.95	0.66
55:B8:2:LYS:HE2	55:B8:35:ARG:HD3	1.78	0.66
24:BA:1164:G:C6	24:BA:1165:U:C4	2.83	0.66
24:BA:1636:C:H1'	24:BA:1761:C:H1'	1.76	0.66
24:BA:1665:A:H4'	35:BN:66:LYS:HB2	1.77	0.66
24:BA:1728:G:H2'	24:BA:1728:G:N3	2.08	0.66
24:BA:1858:G:N2	24:BA:1884:A:H1'	2.11	0.66
24:BA:2018:G:H2'	24:BA:2019:A:C8	2.30	0.66
24:BA:2023:G:O2'	24:BA:2024:G:H5'	1.95	0.66
24:BA:1889:A:O4'	24:BA:2087:G:O4'	2.13	0.66
24:BA:226:G:C2	24:BA:227:A:C2	2.84	0.66
24:BA:2536:G:C6	24:BA:2537:U:C4	2.84	0.66
24:BA:2542:A:C4'	24:BA:2543:G:OP1	2.41	0.66
24:BA:2619:C:H2'	24:BA:2620:C:O5'	1.94	0.66
24:BA:2631:G:H4'	24:BA:2892:A:O5'	1.96	0.66
24:BA:2747:G:C4	24:BA:2756:U:O4	2.49	0.66
24:BA:728:G:C6	24:BA:762:U:C2'	2.78	0.66
24:BA:772:C:O2'	24:BA:773:U:H5'	1.96	0.66
27:BD:136:ILE:CD1	27:BD:173:VAL:HG21	2.26	0.66
27:BD:136:ILE:HB	27:BD:168:ARG:HH21	1.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:172:TYR:HB3	27:BD:184:LYS:CG	2.26	0.66
24:BA:1803:A:O3'	27:BD:257:LEU:HD22	1.96	0.66
27:BD:7:LYS:HE2	27:BD:25:THR:CB	2.24	0.66
27:BD:260:ARG:CG	27:BD:260:ARG:HH11	2.08	0.66
29:BF:137:LYS:O	29:BF:140:LEU:HB3	1.95	0.66
29:BF:188:ARG:HG2	29:BF:188:ARG:NH2	2.08	0.66
29:BF:82:ILE:N	29:BF:82:ILE:CD1	2.56	0.66
30:BG:29:TRP:C	30:BG:31:VAL:H	1.98	0.66
31:BH:119:GLU:C	31:BH:121:ILE:H	1.99	0.66
31:BH:164:TYR:CE2	31:BH:167:GLU:N	2.58	0.66
32:BK:4:ILE:HD11	32:BK:39:ALA:N	2.09	0.66
33:BL:101:TRP:CZ3	33:BL:105:LEU:HD11	2.30	0.66
33:BL:131:ALA:HB1	33:BL:136:VAL:CG1	2.26	0.66
33:BL:23:VAL:O	33:BL:27:LEU:HB2	1.95	0.66
33:BL:78:ILE:HD13	33:BL:131:ALA:CB	2.21	0.66
35:BN:86:ILE:HG23	35:BN:90:GLN:O	1.95	0.66
24:BA:623:G:C8	36:BO:105:LEU:CD1	2.79	0.66
36:BO:122:PRO:HB2	36:BO:138:LEU:CB	2.25	0.66
36:BO:88:LEU:HD11	36:BO:124:LYS:NZ	2.11	0.66
38:BQ:33:ARG:HA	38:BQ:115:GLU:CB	2.25	0.66
40:BS:61:PHE:O	40:BS:62:THR:HG23	1.95	0.66
43:BV:33:ARG:NH1	43:BV:36:LEU:HB3	2.10	0.66
46:BY:4:ARG:CG	46:BY:38:TYR:O	2.44	0.66
46:BY:94:GLU:O	46:BY:94:GLU:HG2	1.96	0.66
47:BZ:25:ARG:HG3	47:BZ:37:LEU:HA	1.76	0.66
32:BK:77:LEU:CD2	32:BK:140:LEU:HD23	2.25	0.66
26:BC:122:ALA:O	26:BC:126:LYS:HB2	1.94	0.66
45:BX:41:GLY:O	45:BX:42:VAL:HG13	1.95	0.66
48:B1:6:GLU:C	48:B1:10:LYS:HE2	2.16	0.66
33:BL:14:ALA:HB2	33:BL:53:VAL:CB	2.25	0.66
24:BA:347:A:N3	24:BA:347:A:H2'	2.11	0.66
25:BB:0:A:H5''	25:BB:0:A:N3	2.11	0.66
1:AA:1049:U:H6	1:AA:1049:U:O5'	1.78	0.66
1:AA:479:C:H2'	1:AA:480:U:C2	2.31	0.66
1:AA:579:G:O2'	1:AA:580:U:H5'	1.95	0.66
1:AA:597:G:C6	1:AA:644:G:C6	2.84	0.66
1:AA:688:G:O2'	1:AA:689:C:H5'	1.96	0.66
1:AA:696:A:N3	1:AA:697:U:O4'	2.29	0.66
1:AA:714:G:H2'	1:AA:715:A:C8	2.31	0.66
3:AC:74:C:H42	24:BA:2253:G:N2	1.94	0.66
3:AC:74:C:H2'	3:AC:75:C:H5''	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:34:G:OP1	3:AD:35:A:H8	1.79	0.66
4:AE:102:LEU:HB3	4:AE:180:LEU:HD13	1.78	0.66
1:AA:1100:C:OP2	4:AE:98:LEU:HD21	1.95	0.66
1:AA:1190:G:OP2	5:AF:5:ILE:HG13	1.95	0.66
6:AG:144:ASP:C	6:AG:184:LYS:HD3	2.16	0.66
6:AG:149:ALA:O	6:AG:152:SER:HB3	1.95	0.66
6:AG:195:ALA:O	6:AG:196:LEU:HD12	1.95	0.66
6:AG:30:LYS:HG2	6:AG:35:ARG:HD2	1.78	0.66
7:AH:149:GLU:HA	7:AH:152:ARG:HB3	1.77	0.66
1:AA:1298:C:N4	9:AJ:114:ARG:HB3	2.10	0.66
10:AK:51:VAL:CG2	10:AK:60:ARG:HH21	2.06	0.66
14:AO:34:ARG:HB2	14:AO:105:TYR:OH	1.95	0.66
14:AO:69:TYR:O	14:AO:71:PRO:HD3	1.96	0.66
19:AT:40:LYS:HZ3	19:AT:40:LYS:CB	2.09	0.66
49:B2:10:LYS:NZ	49:B2:12:PRO:CG	2.58	0.66
51:B4:37:LYS:HD2	51:B4:37:LYS:H	1.61	0.66
52:B5:46:HIS:CG	52:B5:47:THR:N	2.63	0.66
54:B7:23:VAL:HG23	54:B7:48:PHE:HB2	1.78	0.66
24:BA:1181:C:H2'	24:BA:1182:A:C1'	2.25	0.66
24:BA:1289:C:H4'	24:BA:1330:C:H4'	1.77	0.66
24:BA:1515:C:O2'	24:BA:1516:U:OP1	2.10	0.66
24:BA:154:G:H2'	24:BA:155:C:H6	1.61	0.66
24:BA:154:G:N1	24:BA:173:G:N1	2.43	0.66
24:BA:1913:A:H2'	24:BA:1916:A:C2	2.31	0.66
24:BA:2004:G:N7	24:BA:2005:A:N7	2.43	0.66
24:BA:2323:G:H2'	24:BA:2324:C:C5	2.31	0.66
24:BA:2433:A:N6	50:B3:32:TYR:CE2	2.55	0.66
24:BA:2447:G:H8	24:BA:2500:U:H3'	0.87	0.66
24:BA:251:A:C4	24:BA:252:G:H1'	2.30	0.66
24:BA:783:A:C5'	24:BA:2589:A:OP1	2.35	0.66
24:BA:2781:A:O3'	24:BA:2782:G:H4'	1.96	0.66
24:BA:629:G:H1'	24:BA:639:U:O2'	1.95	0.66
27:BD:69:ARG:NH2	27:BD:130:ALA:CB	2.59	0.66
27:BD:131:LEU:CG	27:BD:132:PRO:HD2	2.22	0.66
24:BA:1799:G:H8	27:BD:268:ARG:HH12	1.39	0.66
28:BE:182:LEU:HD22	28:BE:184:VAL:HG13	1.77	0.66
28:BE:98:PRO:HD3	28:BE:175:VAL:CG1	2.25	0.66
29:BF:155:LEU:CG	29:BF:189:THR:HG21	2.24	0.66
31:BH:119:GLU:N	31:BH:121:ILE:HG22	2.10	0.66
31:BH:167:GLU:O	31:BH:169:VAL:N	2.29	0.66
31:BH:41:MET:HE1	31:BH:68:THR:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:72:ILE:O	31:BH:75:ALA:HB3	1.96	0.66
31:BH:7:LEU:C	31:BH:51:ARG:NH2	2.48	0.66
24:BA:1080:C:O2'	33:BL:126:MET:CG	2.43	0.66
35:BN:10:VAL:O	35:BN:11:ALA:HB3	1.95	0.66
35:BN:24:VAL:CA	35:BN:39:ILE:HG22	2.23	0.66
35:BN:97:ARG:CB	35:BN:97:ARG:NH2	2.39	0.66
36:BO:117:GLU:HG2	36:BO:118:GLY:H	1.60	0.66
37:BP:22:LYS:HD2	37:BP:99:PRO:CB	2.26	0.66
37:BP:56:ARG:CD	37:BP:57:HIS:N	2.58	0.66
37:BP:97:VAL:C	37:BP:98:LYS:HE2	2.15	0.66
38:BQ:70:LEU:N	38:BQ:70:LEU:HD23	2.11	0.66
38:BQ:86:ARG:NH1	38:BQ:86:ARG:CB	2.55	0.66
40:BS:76:PHE:CZ	40:BS:78:LEU:HD12	2.31	0.66
40:BS:45:PHE:CE1	40:BS:87:ASP:HB2	2.31	0.66
43:BV:51:LEU:O	43:BV:54:ALA:HB3	1.95	0.66
44:BW:16:LYS:CE	44:BW:16:LYS:H	2.09	0.66
45:BX:14:LEU:HD22	45:BX:20:TYR:N	2.11	0.66
46:BY:95:PRO:HG2	46:BY:131:ARG:H	1.60	0.66
46:BY:45:ASP:OD1	46:BY:45:ASP:N	2.25	0.66
46:BY:57:ILE:C	46:BY:58:VAL:HG22	2.15	0.66
32:BK:87:LYS:HB3	32:BK:121:LYS:CE	2.25	0.66
3:AD:62:C:C4'	26:BC:52:ARG:HD3	2.25	0.66
24:BA:2132:U:H2'	24:BA:2134:A:C8	2.31	0.66
33:BL:14:ALA:HB1	33:BL:48:MET:O	1.96	0.66
1:AA:1003:G:C6	1:AA:1004:A:H1'	2.30	0.66
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.31	0.66
1:AA:1158:C:N3	1:AA:1160:G:C8	2.64	0.66
1:AA:1227:A:OP1	21:AV:80:TYR:CE2	2.49	0.66
1:AA:953:G:C6	1:AA:1229:A:N6	2.64	0.66
1:AA:1240:U:OP2	9:AJ:116:ALA:N	2.29	0.66
1:AA:1339:A:H2'	1:AA:1340:A:C5'	2.22	0.66
1:AA:1378:C:O2	1:AA:1378:C:C2'	2.44	0.66
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.28	0.66
1:AA:1526:G:H2'	1:AA:1527:C:C5	2.31	0.66
1:AA:267:C:N4	1:AA:268:C:N4	2.44	0.66
1:AA:560:U:O2'	1:AA:561:U:OP2	2.13	0.66
1:AA:566:G:H4'	1:AA:567:G:OP1	1.96	0.66
1:AA:647:C:N3	1:AA:648:A:N7	2.44	0.66
1:AA:87:A:H2'	1:AA:88:C:O4'	1.96	0.66
1:AA:994:A:C8	1:AA:1216:G:H4'	2.31	0.66
4:AE:101:MET:C	4:AE:103:THR:H	1.99	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:24:ALA:HB1	5:AF:28:GLN:NE2	2.11	0.66
6:AG:57:ARG:HH22	7:AH:107:ARG:HD3	1.61	0.66
7:AH:41:VAL:HG11	7:AH:112:LEU:HB3	1.77	0.66
7:AH:81:GLU:CA	7:AH:90:VAL:HG22	2.25	0.66
9:AJ:140:ASP:O	9:AJ:144:MET:CB	2.43	0.66
1:AA:942:G:N2	11:AL:124:GLN:HE22	1.90	0.66
5:AF:5:ILE:HG23	12:AM:51:ARG:HH12	1.61	0.66
12:AM:24:VAL:CG2	12:AM:72:VAL:HG13	2.25	0.66
19:AT:65:ILE:HG23	19:AT:69:LYS:O	1.96	0.66
49:B2:29:ARG:O	49:B2:30:ARG:C	2.33	0.66
50:B3:20:ASN:CB	50:B3:30:GLU:CD	2.64	0.66
52:B5:46:HIS:ND1	52:B5:47:THR:N	2.44	0.66
54:B7:60:LEU:HD11	54:B7:64:TYR:HB2	1.78	0.66
24:BA:1249:U:O4	36:BO:21:ARG:CZ	2.44	0.66
24:BA:1797:C:H2'	24:BA:1798:U:C5	2.31	0.66
24:BA:2009:G:O2'	24:BA:2010:G:H5'	1.95	0.66
24:BA:2016:U:H2'	24:BA:2017:U:O4'	1.96	0.66
24:BA:2212:A:C2'	24:BA:2212:A:N3	2.56	0.66
24:BA:2285:C:H5	52:B5:27:LYS:NZ	1.94	0.66
24:BA:2597:G:H5'	27:BD:242:ARG:HE	1.59	0.66
24:BA:107:C:H4'	24:BA:293:U:C1'	2.23	0.66
24:BA:605:C:OP1	29:BF:104:LYS:HB2	1.96	0.66
24:BA:59:U:H2'	24:BA:60:G:O4'	1.95	0.66
24:BA:627:A:C2'	24:BA:628:G:O4'	2.41	0.66
24:BA:777:A:O2'	24:BA:778:G:H5'	1.95	0.66
24:BA:917:A:N6	24:BA:918:A:C6	2.64	0.66
24:BA:970:C:C2	24:BA:971:C:C5	2.85	0.66
25:BB:78:A:H2'	25:BB:79:C:H5'	1.76	0.66
27:BD:132:PRO:O	27:BD:133:LEU:C	2.34	0.66
29:BF:98:SER:O	29:BF:99:TYR:HB2	1.94	0.66
30:BG:78:SER:HB2	30:BG:82:LEU:HB3	1.78	0.66
31:BH:66:GLY:O	31:BH:70:THR:HG23	1.96	0.66
34:BM:23:LEU:HD21	34:BM:61:ARG:O	1.95	0.66
36:BO:74:GLU:CB	36:BO:111:ARG:O	2.31	0.66
37:BP:99:PRO:O	37:BP:100:GLY:C	2.33	0.66
38:BQ:83:ILE:CG2	38:BQ:86:ARG:CZ	2.74	0.66
40:BS:7:ILE:C	40:BS:11:GLU:OE1	2.34	0.66
40:BS:53:ARG:HH21	40:BS:102:ILE:CD1	2.09	0.66
40:BS:82:LEU:O	40:BS:85:LYS:NZ	2.28	0.66
41:BT:66:ASN:C	41:BT:70:ARG:HE	2.00	0.66
44:BW:50:LYS:HZ2	44:BW:85:PRO:HD2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:39:VAL:HA	46:BY:44:PHE:CZ	2.30	0.66
47:BZ:46:LYS:HE2	47:BZ:77:ARG:N	2.11	0.66
32:BK:77:LEU:CD2	32:BK:77:LEU:N	2.54	0.66
3:AD:15:G:H2'	3:AD:60:U:O2	1.96	0.66
24:BA:1417:C:N4	24:BA:1581:G:H1	1.85	0.66
33:BL:45:THR:HG22	33:BL:53:VAL:HG11	1.76	0.66
28:BE:15:PHE:CE2	28:BE:16:ARG:HG3	2.31	0.66
1:AA:1085:U:H5'	1:AA:1094:G:H21	1.58	0.65
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.14	0.65
1:AA:1376:U:O2	1:AA:1377:A:N7	2.29	0.65
1:AA:1405:G:H1'	1:AA:1519:A:O4'	1.96	0.65
1:AA:454:C:H3'	1:AA:455:C:C6	2.32	0.65
1:AA:520:A:OP2	14:AO:51:ALA:HB1	1.96	0.65
1:AA:877:C:O2'	10:AK:3:THR:HG21	1.96	0.65
3:AC:34:G:C5	3:AC:35:A:N7	2.65	0.65
4:AE:69:LEU:HB2	4:AE:159:PRO:CB	2.27	0.65
4:AE:163:PHE:CD2	4:AE:164:VAL:N	2.64	0.65
4:AE:217:ARG:HG3	4:AE:217:ARG:HH11	1.61	0.65
4:AE:80:ILE:HG21	4:AE:211:ILE:HG21	1.78	0.65
4:AE:68:ILE:O	4:AE:90:MET:HB3	1.96	0.65
5:AF:52:LEU:HA	5:AF:70:VAL:CG2	2.23	0.65
6:AG:13:ARG:C	6:AG:40:PRO:HD3	2.17	0.65
6:AG:18:LYS:HE3	6:AG:33:MET:CB	2.27	0.65
7:AH:102:ALA:HB1	7:AH:106:PRO:CB	2.25	0.65
7:AH:142:LEU:N	7:AH:143:ARG:HE	1.94	0.65
7:AH:18:ARG:N	7:AH:26:PHE:HB3	2.11	0.65
7:AH:43:LEU:HD23	7:AH:43:LEU:C	2.16	0.65
9:AJ:43:PHE:HD2	9:AJ:44:TYR:CE2	2.14	0.65
11:AL:26:VAL:HG13	11:AL:63:ILE:HD11	1.78	0.65
15:AP:96:LEU:H	15:AP:96:LEU:HD23	1.60	0.65
17:AR:34:LEU:HD12	17:AR:38:ARG:HE	1.61	0.65
19:AT:41:LYS:O	19:AT:42:TYR:CD1	2.49	0.65
1:AA:277:C:H5''	19:AT:68:ARG:NH1	2.11	0.65
21:AV:22:LEU:O	21:AV:25:LYS:NZ	2.29	0.65
49:B2:4:LEU:HD23	49:B2:5:LYS:N	2.10	0.65
49:B2:50:VAL:O	49:B2:52:HIS:ND1	2.29	0.65
50:B3:58:ARG:H	50:B3:61:ARG:NH1	1.94	0.65
24:BA:397:G:OP2	50:B3:59:PHE:HZ	1.79	0.65
52:B5:48:VAL:CG1	52:B5:49:HIS:H	2.03	0.65
53:B6:2:LYS:C	53:B6:4:THR:H	1.99	0.65
24:BA:1183:G:O3'	24:BA:1183:G:OP2	2.13	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1634:A:O2'	24:BA:1635:G:P	2.55	0.65
24:BA:1669:A:N3	24:BA:1669:A:H2'	2.11	0.65
24:BA:1703:G:O2'	24:BA:1704:G:H5'	1.95	0.65
24:BA:1799:G:N2	27:BD:157:ARG:HH22	1.93	0.65
24:BA:1851:U:N3	24:BA:1852:C:N4	2.43	0.65
1:AA:1517:G:C1'	24:BA:1920:C:OP1	2.44	0.65
24:BA:1266:G:O2'	24:BA:2012:G:N1	2.22	0.65
24:BA:2356:C:H3'	24:BA:2357:U:H5	1.61	0.65
24:BA:2371:G:N2	24:BA:2372:G:C6	2.64	0.65
24:BA:1028:A:H2	24:BA:2486:G:HO2'	1.35	0.65
24:BA:2546:U:C4'	24:BA:2565:A:C2	2.79	0.65
24:BA:1782:C:H42	24:BA:2587:A:H61	1.43	0.65
24:BA:2709:G:H2'	24:BA:2710:C:C5'	2.26	0.65
24:BA:2770:G:H8	24:BA:2770:G:O5'	1.79	0.65
24:BA:407:G:H2'	24:BA:408:G:C8	2.31	0.65
24:BA:703:U:H2'	24:BA:704:G:H1'	1.77	0.65
24:BA:728:G:C6	24:BA:762:U:H3'	2.30	0.65
24:BA:800:A:O2'	24:BA:801:G:C5'	2.44	0.65
24:BA:871:U:H2'	24:BA:872:A:C8	2.31	0.65
24:BA:973:A:O2'	24:BA:974:G:O5'	2.14	0.65
24:BA:977:G:H2'	24:BA:978:G:C4'	2.26	0.65
24:BA:997:G:OP1	41:BT:92:ARG:CD	2.43	0.65
25:BB:16:G:H2'	25:BB:17:C:C6	2.30	0.65
27:BD:17:THR:HG23	27:BD:18:VAL:HG23	1.78	0.65
27:BD:51:VAL:HB	27:BD:52:ARG:NH2	2.09	0.65
27:BD:55:GLY:HA2	27:BD:217:ARG:CZ	2.26	0.65
24:BA:1567:A:N1	27:BD:85:ASP:CA	2.60	0.65
28:BE:116:VAL:HG21	28:BE:138:PRO:CA	2.11	0.65
28:BE:13:ARG:HG3	28:BE:22:PRO:CG	2.25	0.65
28:BE:48:GLN:NE2	28:BE:48:GLN:N	2.44	0.65
24:BA:1257:C:H4'	29:BF:83:PHE:HD1	1.58	0.65
30:BG:17:PRO:CA	30:BG:20:ILE:HB	2.27	0.65
31:BH:126:PRO:HG3	31:BH:132:ARG:HH12	1.58	0.65
31:BH:52:VAL:HG11	31:BH:69:ARG:HB3	1.77	0.65
34:BM:39:ARG:HD3	34:BM:48:MET:HG2	1.78	0.65
34:BM:87:LEU:HD23	34:BM:88:GLU:H	1.60	0.65
35:BN:4:PRO:O	35:BN:6:THR:HG22	1.96	0.65
35:BN:94:ARG:CG	35:BN:95:GLY:N	2.53	0.65
36:BO:121:LYS:H	36:BO:137:LYS:HB2	1.59	0.65
24:BA:663:G:H4'	36:BO:18:ARG:CZ	2.25	0.65
36:BO:64:LYS:O	36:BO:64:LYS:HD2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1244:G:H5'	36:BO:9:ASN:HB2	1.78	0.65
37:BP:85:LYS:HD2	37:BP:86:GLY:H	1.60	0.65
39:BR:62:LYS:HB2	39:BR:65:VAL:CG1	2.26	0.65
40:BS:57:PHE:C	40:BS:58:ASN:HD22	1.98	0.65
40:BS:95:ARG:HB3	40:BS:95:ARG:NH2	2.10	0.65
41:BT:81:HIS:HB3	41:BT:117:GLN:CD	2.16	0.65
41:BT:94:ASN:O	41:BT:95:LEU:C	2.34	0.65
42:BU:43:GLU:OE1	42:BU:43:GLU:O	2.13	0.65
42:BU:69:LYS:CG	42:BU:70:ILE:H	2.07	0.65
43:BV:8:ARG:CZ	43:BV:102:HIS:CE1	2.78	0.65
43:BV:11:ARG:N	43:BV:11:ARG:HH21	1.89	0.65
43:BV:36:LEU:HD11	43:BV:47:VAL:HB	1.77	0.65
45:BX:16:ALA:CB	45:BX:68:HIS:ND1	2.59	0.65
46:BY:98:MET:HE2	46:BY:100:VAL:HG12	1.78	0.65
46:BY:9:TYR:HB2	46:BY:14:LYS:CG	2.26	0.65
24:BA:855:G:H21	47:BZ:27:GLU:HB3	1.61	0.65
1:AA:1069:C:H1'	1:AA:1191:A:H2	1.60	0.65
1:AA:1266:G:H2'	1:AA:1268:A:OP2	1.96	0.65
1:AA:1308:U:H3'	15:AP:99:ARG:CZ	2.26	0.65
1:AA:1320:C:H5''	21:AV:70:LYS:HD2	1.77	0.65
1:AA:1430:C:O2'	1:AA:1431:C:O5'	2.14	0.65
1:AA:405:U:H3'	1:AA:406:G:H5'	1.77	0.65
1:AA:68:G:H2'	1:AA:69:G:O4'	1.97	0.65
1:AA:809:G:C2'	1:AA:810:C:H5'	2.27	0.65
1:AA:963:G:H2'	1:AA:964:A:H8	1.61	0.65
4:AE:72:GLY:HA2	4:AE:165:VAL:CG2	2.25	0.65
5:AF:15:THR:HB	5:AF:181:ASN:OD1	1.97	0.65
5:AF:76:VAL:HG12	5:AF:77:ILE:N	2.11	0.65
6:AG:143:GLY:HA2	6:AG:185:PHE:CG	2.32	0.65
6:AG:12:CYS:HB3	6:AG:31:CYS:O	1.95	0.65
6:AG:52:SER:O	6:AG:54:TYR:N	2.29	0.65
1:AA:9:G:C5'	7:AH:126:ARG:HD3	2.17	0.65
9:AJ:5:ARG:HD2	9:AJ:7:ALA:N	2.09	0.65
10:AK:29:SER:O	10:AK:32:LYS:HG2	1.96	0.65
14:AO:42:THR:OG1	14:AO:52:LEU:HD12	1.96	0.65
14:AO:35:GLY:O	14:AO:82:VAL:HA	1.96	0.65
17:AR:3:ILE:HD12	17:AR:3:ILE:H	1.62	0.65
20:AU:52:PRO:HG2	20:AU:54:ARG:HB3	1.79	0.65
21:AV:51:VAL:HB	21:AV:58:VAL:CG2	2.25	0.65
23:AX:9:ARG:H	23:AX:9:ARG:HD2	1.61	0.65
50:B3:42:PHE:CG	50:B3:43:TYR:N	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1032:A:OP2	55:B8:8:LYS:HG3	1.96	0.65
24:BA:1422:G:H2'	24:BA:1423:G:H8	1.62	0.65
24:BA:1805:U:H2'	24:BA:1806:C:H6	1.60	0.65
24:BA:1806:C:C4	24:BA:1807:G:N7	2.64	0.65
24:BA:1882:C:H2'	24:BA:1883:G:H5'	1.78	0.65
24:BA:1935:G:H22	24:BA:1962:C:C2'	2.10	0.65
24:BA:204:A:OP1	24:BA:206:U:O2	2.13	0.65
24:BA:2305:A:N7	24:BA:2306:C:C6	2.64	0.65
24:BA:2049:G:C2	24:BA:2620:C:C2	2.84	0.65
24:BA:446:G:C8	24:BA:446:G:OP2	2.50	0.65
24:BA:692:C:O2'	24:BA:693:C:H5'	1.94	0.65
24:BA:71:A:H5''	24:BA:73:A:C8	2.30	0.65
24:BA:746:A:O2'	24:BA:747:U:OP2	2.12	0.65
24:BA:830:G:O2'	24:BA:831:G:OP1	2.11	0.65
24:BA:91:A:C2	24:BA:92:G:H5'	2.30	0.65
24:BA:93:C:H2'	24:BA:94:G:C8	2.32	0.65
25:BB:110:G:H2'	25:BB:111:U:O4'	1.95	0.65
28:BE:59:VAL:HB	28:BE:62:PRO:HD2	1.78	0.65
29:BF:140:LEU:O	29:BF:143:ALA:HB3	1.96	0.65
29:BF:74:ARG:NH1	29:BF:76:GLY:H	1.94	0.65
30:BG:19:LEU:O	30:BG:22:ARG:HG2	1.96	0.65
31:BH:25:LYS:NZ	31:BH:32:GLU:HB2	2.11	0.65
33:BL:91:PRO:HB3	33:BL:134:MET:C	2.16	0.65
35:BN:18:LYS:NZ	35:BN:44:LYS:NZ	2.44	0.65
35:BN:65:THR:O	35:BN:66:LYS:HB2	1.96	0.65
37:BP:109:VAL:HG11	37:BP:114:ALA:H	1.61	0.65
37:BP:22:LYS:HD2	37:BP:23:GLY:H	1.58	0.65
38:BQ:34:ILE:C	38:BQ:113:LEU:HD22	2.16	0.65
39:BR:87:PHE:CG	39:BR:88:ASP:N	2.62	0.65
40:BS:3:ARG:O	40:BS:4:GLY:C	2.34	0.65
40:BS:64:ARG:NE	40:BS:77:PRO:CB	2.59	0.65
34:BM:4:TYR:O	41:BT:64:ARG:NH2	2.29	0.65
42:BU:12:TYR:CE1	42:BU:14:VAL:N	2.65	0.65
42:BU:20:LEU:O	42:BU:21:ARG:HG2	1.96	0.65
42:BU:78:LYS:HE2	42:BU:84:LYS:HG2	1.78	0.65
43:BV:75:TYR:O	43:BV:104:THR:O	2.14	0.65
44:BW:50:LYS:HG3	44:BW:85:PRO:CD	2.26	0.65
45:BX:6:HIS:HB3	45:BX:71:LYS:HG2	1.79	0.65
24:BA:2142:C:H2'	24:BA:2143:C:H6	1.56	0.65
26:BC:20:TYR:HE1	26:BC:222:VAL:HG22	1.60	0.65
24:BA:1485:G:H2'	24:BA:1486:A:C8	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:160:A:C1'	1:AA:344:A:N7	2.59	0.65
33:BL:14:ALA:HB3	33:BL:49:GLY:CA	2.24	0.65
3:AD:66:U:C2	3:AD:67:C:C5	2.85	0.65
1:AA:1239:A:H62	1:AA:1299:A:H61	1.43	0.65
1:AA:286:G:C4	1:AA:287:U:C6	2.84	0.65
1:AA:380:G:H21	1:AA:382:A:H3'	1.60	0.65
1:AA:486:U:C2'	1:AA:487:A:O5'	2.44	0.65
1:AA:767:A:N6	1:AA:768:A:C6	2.64	0.65
1:AA:867:G:H2'	1:AA:868:C:C5	2.31	0.65
1:AA:978:A:O2'	1:AA:979:C:H5'	1.96	0.65
3:AB:22:G:OP2	3:AB:22:G:H8	1.79	0.65
4:AE:126:GLU:O	4:AE:129:GLU:HB2	1.96	0.65
4:AE:91:PRO:HG2	4:AE:155:LEU:HD23	1.78	0.65
5:AF:136:GLN:O	5:AF:139:GLN:HB2	1.96	0.65
6:AG:121:VAL:HG11	6:AG:136:PRO:HA	1.79	0.65
6:AG:67:ILE:HD12	6:AG:67:ILE:C	2.17	0.65
6:AG:93:PHE:CA	6:AG:96:LEU:HD12	2.21	0.65
9:AJ:143:ARG:HD3	9:AJ:144:MET:N	2.10	0.65
1:AA:1060:C:H4'	12:AM:52:GLY:CA	2.26	0.65
12:AM:11:PHE:HZ	12:AM:65:LEU:HG	1.62	0.65
13:AN:126:ARG:HH11	13:AN:126:ARG:HB3	1.60	0.65
18:AS:49:LEU:HD11	18:AS:51:VAL:CG2	2.20	0.65
19:AT:29:HIS:CE1	19:AT:31:LEU:N	2.64	0.65
21:AV:45:VAL:HA	21:AV:67:VAL:CG2	2.26	0.65
24:BA:931:G:H21	49:B2:25:ALA:N	1.94	0.65
36:BO:56:SER:CB	54:B7:13:ARG:CZ	2.72	0.65
54:B7:55:ALA:N	54:B7:56:GLU:OE2	2.29	0.65
24:BA:1033:U:C5'	55:B8:16:VAL:HG11	2.26	0.65
24:BA:1033:U:H5'	55:B8:16:VAL:HG11	1.78	0.65
24:BA:1212:G:C6	24:BA:1236:G:O6	2.49	0.65
24:BA:1308:A:N3	24:BA:1309:G:H1'	2.11	0.65
24:BA:1406:U:C2	24:BA:1407:C:C5	2.84	0.65
24:BA:150:C:O2'	24:BA:151:C:H5'	1.95	0.65
24:BA:1814:G:H5''	24:BA:1815:A:OP2	1.96	0.65
24:BA:1934:C:N3	24:BA:1967:C:N4	2.44	0.65
24:BA:1992:G:C1'	24:BA:1993:U:C5	2.80	0.65
24:BA:200:U:H3'	24:BA:201:C:C5'	2.27	0.65
24:BA:2075:U:C5	24:BA:2435:A:C2	2.84	0.65
24:BA:2210:G:H4'	24:BA:2211:G:H5'	1.78	0.65
24:BA:2246:G:N3	24:BA:2247:A:N7	2.44	0.65
24:BA:2349:G:H3'	24:BA:2350:C:C5'	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2329:G:N1	24:BA:2386:C:N4	2.39	0.65
24:BA:2396:G:C6	24:BA:2421:G:O6	2.50	0.65
24:BA:2690:C:C6	24:BA:2690:C:C3'	2.78	0.65
24:BA:296:C:C6	24:BA:338:G:N2	2.64	0.65
24:BA:389:G:N1	36:BO:64:LYS:HG2	2.11	0.65
24:BA:266:G:N2	24:BA:427:U:H3	1.94	0.65
24:BA:501:A:C6	24:BA:502:A:N1	2.63	0.65
24:BA:654:A:H2'	24:BA:654:A:N3	2.10	0.65
24:BA:735:A:H2'	24:BA:736:C:H5'	1.78	0.65
24:BA:826:U:C5'	24:BA:2428:G:O3'	2.43	0.65
24:BA:60:G:O6	24:BA:88:G:O6	2.15	0.65
25:BB:39:A:H2	25:BB:44:G:OP2	1.79	0.65
24:BA:1789:A:H2'	27:BD:213:ARG:HH22	1.61	0.65
28:BE:198:VAL:CG1	28:BE:200:GLU:OE2	2.42	0.65
28:BE:49:LEU:CD1	28:BE:74:PRO:HB2	2.22	0.65
29:BF:131:GLY:O	29:BF:133:ASN:N	2.29	0.65
30:BG:177:GLY:O	30:BG:178:PHE:HB3	1.96	0.65
31:BH:4:ILE:HD12	31:BH:4:ILE:N	2.12	0.65
31:BH:85:LYS:HE2	31:BH:142:GLY:HA2	1.77	0.65
32:BK:32:PRO:CD	32:BK:33:ARG:H	2.07	0.65
33:BL:71:THR:CG2	33:BL:114:ASP:HB3	2.26	0.65
24:BA:2780:G:N2	34:BM:97:ARG:HH22	1.94	0.65
37:BP:59:ARG:HA	37:BP:60:ARG:CZ	2.27	0.65
37:BP:58:PHE:C	37:BP:60:ARG:H	1.98	0.65
42:BU:14:VAL:HG11	42:BU:19:LYS:CG	2.15	0.65
42:BU:78:LYS:HA	42:BU:83:ARG:O	1.96	0.65
43:BV:6:ILE:CD1	43:BV:104:THR:HA	2.27	0.65
43:BV:10:VAL:HB	43:BV:12:ILE:HD11	1.78	0.65
45:BX:46:LYS:HG3	45:BX:58:GLY:N	2.10	0.65
46:BY:96:VAL:HG13	46:BY:128:VAL:CG2	2.25	0.65
46:BY:71:VAL:HG22	46:BY:88:PHE:CE2	2.31	0.65
32:BK:132:PRO:CD	32:BK:138:ILE:H	2.09	0.65
32:BK:57:ARG:O	32:BK:61:ARG:HG2	1.96	0.65
32:BK:93:THR:O	32:BK:96:ASP:N	2.29	0.65
26:BC:182:PRO:HG2	26:BC:183:GLU:CD	2.16	0.65
24:BA:1579:A:C8	24:BA:1580:A:N3	2.64	0.65
39:BR:33:LYS:CE	39:BR:54:LEU:HD21	2.27	0.65
1:AA:1085:U:OP2	1:AA:1086:U:O4	2.15	0.65
1:AA:1108:G:H4'	1:AA:1191:A:H1'	1.79	0.65
1:AA:1185:G:O2'	1:AA:1186:G:H5'	1.95	0.65
1:AA:1219:U:P	16:AQ:19:ARG:HH22	2.19	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:127:G:H2'	1:AA:128:G:H5'	1.79	0.65
1:AA:1299:A:N7	1:AA:1301:U:C6	2.64	0.65
1:AA:556:C:O2'	1:AA:557:G:H5'	1.96	0.65
1:AA:719:C:OP2	1:AA:720:C:N4	2.30	0.65
1:AA:781:A:O2'	1:AA:782:A:H5'	1.95	0.65
1:AA:940:C:H2'	1:AA:941:G:H8	1.60	0.65
1:AA:945:G:H1'	1:AA:1337:G:O2'	1.96	0.65
3:AC:76:A:H3'	3:AC:76:A:H8	1.61	0.65
5:AF:44:GLU:HA	5:AF:52:LEU:HD11	1.78	0.65
7:AH:17:ALA:HA	7:AH:26:PHE:CB	2.27	0.65
8:AI:30:LEU:HD23	8:AI:75:LEU:HD13	1.78	0.65
12:AM:89:ASP:O	12:AM:90:LEU:HG	1.95	0.65
13:AN:62:GLN:OE1	13:AN:63:LEU:HB2	1.95	0.65
14:AO:33:ARG:O	14:AO:85:ILE:HG22	1.96	0.65
18:AS:26:ARG:O	18:AS:27:LYS:O	2.13	0.65
18:AS:42:ARG:O	18:AS:43:LYS:HB2	1.96	0.65
19:AT:60:ILE:HD13	19:AT:62:SER:OG	1.95	0.65
22:AW:88:VAL:HG12	22:AW:92:LEU:CD1	2.26	0.65
54:B7:14:VAL:HG12	54:B7:14:VAL:O	1.96	0.65
24:BA:1086:A:H3'	24:BA:1087:G:C5'	2.24	0.65
24:BA:71:A:H62	24:BA:114:U:H1'	1.60	0.65
24:BA:1277:G:O2'	24:BA:1278:A:H5'	1.95	0.65
24:BA:1472:A:C1'	24:BA:1473:G:N7	2.58	0.65
24:BA:1500:G:H2'	24:BA:1501:C:H6	1.60	0.65
24:BA:1633:G:C8	24:BA:1635:G:O6	2.49	0.65
24:BA:1993:U:H3'	24:BA:1993:U:H6	1.61	0.65
24:BA:2324:C:O2	24:BA:2385:C:H5	1.78	0.65
24:BA:412:A:N6	24:BA:2411:A:H1'	2.12	0.65
24:BA:2453:A:O2'	24:BA:2454:G:C5'	2.42	0.65
24:BA:1954:G:N3	24:BA:2551:C:H5''	2.11	0.65
24:BA:25:U:C2	24:BA:26:G:C8	2.85	0.65
24:BA:2654:A:C4	24:BA:2665:A:N6	2.64	0.65
24:BA:2678:C:C2	24:BA:2679:A:C8	2.83	0.65
24:BA:271(B):G:H5''	24:BA:271(C):U:C4'	2.26	0.65
24:BA:58:G:H2'	24:BA:73:A:H2	1.59	0.65
24:BA:74:A:N1	48:B1:46:ARG:HD2	2.12	0.65
24:BA:763:G:C2	24:BA:765:G:C4	2.85	0.65
24:BA:827:U:C6	24:BA:2430:A:C2	2.85	0.65
24:BA:865:C:O2	24:BA:865:C:H2'	1.95	0.65
24:BA:976:C:O2	24:BA:977:G:H8	1.79	0.65
25:BB:69:G:H5''	25:BB:70:C:OP2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:202:LYS:CD	27:BD:202:LYS:H	2.05	0.65
28:BE:128:SER:C	28:BE:130:GLY:H	1.98	0.65
28:BE:59:VAL:CB	28:BE:62:PRO:HD2	2.26	0.65
31:BH:18:GLU:OE1	31:BH:25:LYS:HG2	1.97	0.65
31:BH:52:VAL:HG22	31:BH:65:HIS:CE1	2.32	0.65
31:BH:7:LEU:N	31:BH:8:PRO:CD	2.57	0.65
36:BO:45:LEU:HD22	54:B7:59:LYS:CG	2.26	0.65
36:BO:81:GLN:HG2	36:BO:86:LYS:CE	2.27	0.65
40:BS:53:ARG:HH21	40:BS:102:ILE:HD13	1.61	0.65
41:BT:80:ILE:O	41:BT:84:LYS:HG2	1.95	0.65
42:BU:4:ILE:HG13	42:BU:13:ARG:HG2	1.76	0.65
42:BU:68:LYS:O	42:BU:69:LYS:CB	2.42	0.65
45:BX:49:VAL:HB	45:BX:51:VAL:H	1.61	0.65
46:BY:49:ARG:O	46:BY:50:GLN:C	2.34	0.65
46:BY:57:ILE:HD11	46:BY:70:LEU:HG	1.78	0.65
47:BZ:22:GLY:O	47:BZ:38:VAL:HG13	1.95	0.65
32:BK:87:LYS:HE3	32:BK:122:GLU:CD	2.17	0.65
3:AD:15:G:N1	3:AD:48:C:N4	2.45	0.65
3:AD:18:G:C2'	3:AD:19:G:O5'	2.44	0.65
26:BC:89:ALA:HB1	26:BC:154:ARG:CB	2.27	0.65
48:B1:8:ALA:O	48:B1:9:ARG:C	2.35	0.65
32:BK:19:VAL:CG1	32:BK:20:ASP:H	2.10	0.65
1:AA:1113:C:O2'	1:AA:1114:C:H5'	1.95	0.65
1:AA:1226:C:O2'	1:AA:1227:A:OP1	2.13	0.65
1:AA:1239:A:C2	1:AA:1298:C:C5	2.83	0.65
1:AA:1409:C:C2	1:AA:1410:G:C8	2.85	0.65
1:AA:543:C:P	6:AG:10:ARG:HH22	2.19	0.65
1:AA:551:U:H2'	1:AA:552:U:H6	1.53	0.65
1:AA:611:A:N1	1:AA:629:G:N2	2.37	0.65
1:AA:827:U:H5'	10:AK:16:ALA:HA	1.78	0.65
1:AA:878:G:H2'	1:AA:879:C:C6	2.31	0.65
1:AA:931:C:H2'	1:AA:932:C:C5	2.31	0.65
1:AA:981:U:H6	1:AA:981:U:O5'	1.79	0.65
4:AE:130:ARG:CB	4:AE:131:PRO:HD2	2.23	0.65
4:AE:136:VAL:HA	4:AE:139:LYS:HZ3	1.60	0.65
8:AI:33:TYR:CE2	8:AI:74:ASP:HB2	2.32	0.65
8:AI:75:LEU:O	8:AI:79:LEU:HG	1.97	0.65
1:AA:597:G:N2	10:AK:94:TYR:CE2	2.57	0.65
13:AN:31:THR:HG23	13:AN:41:THR:O	1.97	0.65
15:AP:34:LEU:HD23	15:AP:39:ILE:CG1	2.26	0.65
15:AP:15:VAL:HG11	15:AP:39:ILE:HD12	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:6:GLU:HG2	17:AR:7:GLU:HG3	1.78	0.65
21:AV:39:THR:O	21:AV:40:ILE:O	2.14	0.65
1:AA:191:G:O2'	22:AW:102:GLY:HA2	1.97	0.65
50:B3:41:PRO:HD2	50:B3:57:GLU:OE1	1.96	0.65
53:B6:32:LYS:N	53:B6:35:ARG:HD3	2.11	0.65
24:BA:1407:C:O2'	24:BA:1408:C:H5'	1.97	0.65
24:BA:1779:U:H3'	24:BA:1779:U:C6	2.31	0.65
24:BA:1813:G:H21	27:BD:52:ARG:NH1	1.94	0.65
24:BA:1955:U:P	24:BA:1956:U:O4	2.55	0.65
24:BA:2305:A:H1'	30:BG:154:GLY:C	2.17	0.65
24:BA:2416:C:C2'	24:BA:2417:C:C5'	2.66	0.65
24:BA:2491:U:N1	24:BA:2492:U:H5'	2.10	0.65
24:BA:2550:G:H2'	24:BA:2551:C:H6	1.62	0.65
24:BA:270(J):G:C6	24:BA:270(K):C:N3	2.64	0.65
24:BA:2808:U:H3'	24:BA:2809:A:H5''	1.78	0.65
24:BA:286:C:H2'	24:BA:287:C:C6	2.32	0.65
24:BA:292:C:H6	24:BA:293:U:O4	1.80	0.65
24:BA:330:A:O2'	24:BA:1210:A:N6	2.30	0.65
24:BA:388:G:H1'	24:BA:390:A:H62	1.62	0.65
24:BA:472:A:H2'	24:BA:473:G:H5'	1.78	0.65
24:BA:783:A:N1	24:BA:785:G:O4'	2.30	0.65
24:BA:878:A:N3	24:BA:878:A:H2'	2.11	0.65
25:BB:82:G:N3	25:BB:83:G:C8	2.63	0.65
27:BD:159:ALA:O	27:BD:196:VAL:HG21	1.95	0.65
27:BD:54:ARG:CB	27:BD:218:ARG:HD2	2.27	0.65
24:BA:1789:A:O4'	27:BD:222:ARG:NH2	2.29	0.65
27:BD:84:TYR:CG	27:BD:91:ARG:HG3	2.31	0.65
28:BE:104:VAL:CG2	28:BE:198:VAL:HG22	2.27	0.65
28:BE:51:PHE:CZ	28:BE:53:PRO:HD3	2.32	0.65
29:BF:118:ALA:HB1	29:BF:122:LYS:HB2	1.79	0.65
29:BF:11:VAL:CG1	29:BF:127:GLU:HB2	2.24	0.65
29:BF:132:VAL:CG2	29:BF:135:LYS:HB2	2.27	0.65
29:BF:131:GLY:CA	29:BF:138:GLU:HB2	2.26	0.65
30:BG:131:TYR:CD1	30:BG:158:ALA:HA	2.32	0.65
34:BM:16:ILE:HD12	34:BM:53:VAL:O	1.96	0.65
35:BN:103:ALA:HB1	35:BN:107:ARG:CD	2.26	0.65
35:BN:84:ALA:CB	35:BN:114:ILE:HD11	2.26	0.65
36:BO:126:VAL:HA	36:BO:145:PRO:HA	1.78	0.65
38:BQ:49:ASP:O	38:BQ:52:ILE:HG22	1.96	0.65
38:BQ:79:LEU:HD23	38:BQ:80:PHE:H	1.60	0.65
39:BR:24:LEU:O	39:BR:86:ALA:HB1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:10:ARG:HH11	39:BR:89:ARG:HH12	1.44	0.65
40:BS:20:PRO:HA	40:BS:22:PHE:CZ	2.31	0.65
40:BS:34:VAL:HG23	40:BS:36:GLU:HB2	1.78	0.65
3:AD:17:C:H5'	3:AD:18:G:O5'	1.95	0.65
26:BC:60:GLY:O	26:BC:61:THR:HB	1.95	0.65
1:AA:344:A:O2'	1:AA:345:C:P	2.54	0.65
1:AA:1097:C:O2'	1:AA:1098:C:H5'	1.97	0.65
3:AB:6:G:O2'	3:AB:7:A:H5'	1.97	0.65
1:AA:1148:U:O2'	1:AA:1149:C:H5'	1.96	0.65
1:AA:976:G:C6	1:AA:1362:C:C4	2.84	0.65
1:AA:1409:C:O2	1:AA:1410:G:C8	2.49	0.65
1:AA:236:G:H2'	1:AA:237:C:C6	2.31	0.65
1:AA:451:A:H61	1:AA:480:U:H2'	1.60	0.65
4:AE:102:LEU:H	4:AE:102:LEU:HD13	1.58	0.65
4:AE:55:PHE:HE2	4:AE:218:ALA:HA	1.60	0.65
5:AF:39:ILE:HG22	5:AF:40:ARG:N	2.11	0.65
6:AG:116:GLN:O	6:AG:119:GLN:HB3	1.97	0.65
6:AG:12:CYS:HA	6:AG:19:LEU:CB	2.21	0.65
7:AH:133:TYR:CD2	7:AH:136:MET:HG3	2.32	0.65
7:AH:31:LEU:HD12	7:AH:129:ILE:HA	1.77	0.65
7:AH:78:HIS:H	7:AH:78:HIS:HD2	1.40	0.65
10:AK:97:VAL:HG13	10:AK:98:LYS:NZ	2.11	0.65
13:AN:14:VAL:O	13:AN:16:SER:N	2.30	0.65
13:AN:66:LEU:O	13:AN:69:ALA:HB3	1.97	0.65
1:AA:1230:C:O2'	15:AP:126:LYS:HE2	1.96	0.65
15:AP:15:VAL:O	15:AP:18:ALA:HB3	1.97	0.65
24:BA:2230:G:H1'	50:B3:58:ARG:NH2	2.12	0.65
53:B6:8:ASN:HD21	53:B6:10:ARG:HB2	1.62	0.65
54:B7:25:MET:O	54:B7:26:LYS:C	2.35	0.65
54:B7:10:ALA:HB1	54:B7:64:TYR:CD2	2.32	0.65
24:BA:1044:G:O2'	24:BA:1047:G:N3	2.30	0.65
24:BA:1045:A:O2'	24:BA:1047:G:O4'	2.14	0.65
24:BA:1108:U:C5	24:BA:1109:C:C4	2.84	0.65
24:BA:1312:U:H3	24:BA:1604:C:H41	1.44	0.65
24:BA:1650:G:H5'	38:BQ:104:ARG:NH2	2.12	0.65
24:BA:1949:G:N2	24:BA:1958:C:C2	2.65	0.65
24:BA:221:A:H8	24:BA:221:A:H3'	1.61	0.65
24:BA:247:G:N2	24:BA:249:C:HO2'	1.94	0.65
24:BA:257:A:C2	24:BA:258:G:H1'	2.32	0.65
24:BA:2585:U:H6	24:BA:2585:U:OP1	1.80	0.65
24:BA:2653:U:N3	24:BA:2654:A:N6	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2820:A:C2'	24:BA:2821:A:OP1	2.44	0.65
24:BA:2807:G:O6	24:BA:2893:G:N7	2.30	0.65
24:BA:411:G:N3	24:BA:2408:U:O4	2.28	0.65
24:BA:603:A:N6	36:BO:104:GLY:HA2	2.11	0.65
24:BA:76:C:O2'	48:B1:54:ARG:HA	1.96	0.65
24:BA:780:G:H2'	24:BA:782:A:C8	2.31	0.65
24:BA:815:C:C2'	24:BA:816:C:H5'	2.27	0.65
24:BA:838:C:H2'	24:BA:839:U:C6	2.31	0.65
24:BA:975:G:C8	24:BA:990:A:N6	2.65	0.65
27:BD:121:PRO:O	27:BD:122:ASP:HB3	1.97	0.65
27:BD:134:ARG:HA	27:BD:168:ARG:CZ	2.27	0.65
27:BD:27:THR:C	27:BD:29:PRO:HD2	2.17	0.65
24:BA:673:C:H5''	29:BF:81:PRO:CG	2.27	0.65
30:BG:8:LYS:HZ3	30:BG:103:LEU:HG	1.60	0.65
30:BG:44:GLY:C	30:BG:72:ARG:HB3	2.17	0.65
30:BG:75:LYS:HB3	30:BG:84:LYS:CB	2.27	0.65
30:BG:75:LYS:CG	30:BG:85:GLY:H	2.10	0.65
33:BL:55:VAL:HG22	33:BL:69:THR:HG22	1.79	0.65
24:BA:1076:C:H4'	33:BL:93:ARG:CZ	2.26	0.65
35:BN:25:LEU:HD13	35:BN:38:VAL:HB	1.79	0.65
35:BN:96:THR:O	35:BN:97:ARG:CB	2.45	0.65
36:BO:29:LYS:HD2	36:BO:29:LYS:N	2.11	0.65
37:BP:8:LYS:HZ3	37:BP:11:LYS:CE	2.08	0.65
40:BS:53:ARG:NH2	40:BS:101:PHE:N	2.43	0.65
24:BA:445:C:H5''	41:BT:3:ARG:CG	2.27	0.65
43:BV:19:LEU:O	43:BV:22:ASP:HB2	1.97	0.65
38:BQ:103:ARG:HD2	43:BV:40:ASN:HB2	1.78	0.65
43:BV:1:MET:H2	43:BV:4:LYS:HD3	1.61	0.65
43:BV:25:ARG:HD3	43:BV:74:ALA:CB	2.26	0.65
43:BV:74:ALA:O	43:BV:75:TYR:CG	2.50	0.65
45:BX:1:MET:HA	45:BX:33:LYS:HE3	1.78	0.65
45:BX:47:LYS:HB2	45:BX:49:VAL:HG13	1.79	0.65
32:BK:113:ARG:HD3	32:BK:131:LYS:O	1.96	0.65
26:BC:200:LYS:NZ	26:BC:204:ALA:HB3	2.10	0.65
24:BA:1482:U:O2'	24:BA:1512:G:N2	2.30	0.65
1:AA:772:U:H2'	1:AA:773:G:H8	1.61	0.65
24:BA:1414:G:C6	24:BA:1415:U:C4	2.85	0.65
1:AA:1021:G:H2'	1:AA:1022:G:C1'	2.27	0.65
1:AA:1054:C:H6	1:AA:1054:C:H3'	1.62	0.65
1:AA:1251:A:H61	1:AA:1285:A:H2	1.43	0.65
1:AA:1357:A:C5	1:AA:1358:U:C4	2.84	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1405:G:H2'	1:AA:1406:U:C6	2.31	0.65
1:AA:328:C:O2'	1:AA:329:A:P	2.55	0.65
1:AA:865:A:H2'	1:AA:866:C:O4'	1.97	0.65
3:AC:7:A:O2'	3:AC:8:U:P	2.54	0.65
4:AE:103:THR:O	4:AE:104:ASN:HB3	1.95	0.65
5:AF:28:GLN:N	5:AF:30:ARG:NE	2.44	0.65
5:AF:8:ILE:HD13	16:AQ:50:LYS:O	1.97	0.65
6:AG:146:ILE:N	6:AG:146:ILE:HD12	2.10	0.65
7:AH:12:LEU:O	7:AH:30:ALA:HA	1.97	0.65
7:AH:17:ALA:HA	7:AH:26:PHE:HD2	1.61	0.65
8:AI:1:MET:HG2	8:AI:68:PRO:HA	1.78	0.65
9:AJ:6:ARG:N	9:AJ:6:ARG:CZ	2.60	0.65
10:AK:100:ILE:HD13	10:AK:125:ARG:HE	1.60	0.65
10:AK:32:LYS:HZ1	10:AK:32:LYS:H	1.45	0.65
12:AM:34:VAL:CG1	12:AM:35:SER:H	2.06	0.65
12:AM:76:ASN:C	12:AM:78:ASN:H	1.98	0.65
15:AP:99:ARG:HH11	15:AP:99:ARG:HG3	1.60	0.65
17:AR:42:HIS:CE1	17:AR:43:LEU:HA	2.32	0.65
20:AU:29:PHE:CD2	20:AU:39:VAL:HG11	2.32	0.65
21:AV:74:PHE:N	21:AV:74:PHE:CD1	2.64	0.65
49:B2:4:LEU:O	49:B2:37:LEU:CB	2.43	0.65
52:B5:49:HIS:O	52:B5:50:ARG:HB2	1.94	0.65
24:BA:1078:U:O2	24:BA:1088:A:H1'	1.96	0.65
24:BA:1092:C:C6	24:BA:1092:C:H3'	2.31	0.65
24:BA:1203:G:C4	24:BA:1241:A:C8	2.81	0.65
24:BA:1341:U:H2'	44:BW:55:ASN:HB3	1.79	0.65
24:BA:1307:A:O3'	24:BA:1379:A:N6	2.29	0.65
24:BA:1433:U:O2	24:BA:1561:G:C2	2.50	0.65
24:BA:1630:G:H2'	24:BA:1630(A):C:H6	1.61	0.65
24:BA:1692:U:C1'	24:BA:1696:G:N2	2.60	0.65
24:BA:1771:C:H2'	24:BA:1772:G:H8	1.61	0.65
24:BA:1838:C:H2'	24:BA:1838:C:O2	1.95	0.65
24:BA:2052:G:N3	28:BE:150:VAL:HB	2.12	0.65
24:BA:2075:U:O4	24:BA:2077:A:N7	2.29	0.65
24:BA:2531:A:H2'	24:BA:2532:G:O5'	1.96	0.65
24:BA:2587:A:O2'	24:BA:2588:G:H5'	1.96	0.65
24:BA:2661:G:C5	24:BA:2662:A:N7	2.65	0.65
24:BA:2668:G:O2'	24:BA:2669:G:H5'	1.96	0.65
24:BA:2681:C:H5	24:BA:2727:G:C2	2.14	0.65
24:BA:270(A):A:H3'	24:BA:366:C:O2'	1.97	0.65
24:BA:2543:G:N2	24:BA:2765:A:C4	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:280:C:OP2	24:BA:280:C:C6	2.41	0.65
24:BA:308:G:N2	24:BA:329:G:H2'	2.12	0.65
24:BA:586:A:C6	24:BA:1254:A:H2	2.15	0.65
24:BA:72:U:H2'	24:BA:73:A:OP1	1.97	0.65
24:BA:756:C:H2'	24:BA:757:U:C5'	2.27	0.65
24:BA:807:U:O4'	24:BA:2445:G:H4'	1.97	0.65
24:BA:807:U:HO2'	24:BA:808:G:H5'	1.61	0.65
27:BD:54:ARG:HB3	27:BD:218:ARG:HD2	1.79	0.65
27:BD:63:ARG:HD2	27:BD:85:ASP:HB3	1.79	0.65
30:BG:18:GLU:OE1	30:BG:22:ARG:NH1	2.30	0.65
30:BG:94:LEU:HB2	30:BG:99:MET:CE	2.25	0.65
31:BH:122:THR:O	31:BH:133:VAL:HG23	1.97	0.65
31:BH:88:LEU:HD23	31:BH:88:LEU:C	2.16	0.65
32:BK:15:VAL:CG1	32:BK:16:GLY:H	2.10	0.65
32:BK:4:ILE:HG12	32:BK:37:VAL:O	1.96	0.65
24:BA:270(P):C:OP2	32:BK:45:LYS:HD3	1.97	0.65
34:BM:104:LYS:HA	34:BM:117:PHE:CE2	2.31	0.65
34:BM:34:LEU:CD2	34:BM:116:LEU:HD21	2.27	0.65
35:BN:15:GLY:CA	35:BN:47:ILE:HB	2.26	0.65
35:BN:85:VAL:HB	35:BN:93:PRO:HG3	1.79	0.65
35:BN:97:ARG:HD3	35:BN:118:ALA:HB2	1.78	0.65
36:BO:96:THR:C	36:BO:102:ARG:HD3	2.17	0.65
36:BO:113:LYS:HA	36:BO:129:ALA:HB3	1.79	0.65
24:BA:671:C:OP1	36:BO:38:GLN:O	2.14	0.65
36:BO:56:SER:HB3	54:B7:13:ARG:NE	2.10	0.65
36:BO:76:LYS:HZ2	36:BO:99:LEU:CD1	2.10	0.65
38:BQ:75:LEU:O	38:BQ:78:LYS:N	2.30	0.65
40:BS:56:GLY:O	40:BS:61:PHE:HA	1.97	0.65
42:BU:15:GLU:HB3	42:BU:16:PRO:HD2	1.78	0.65
42:BU:43:GLU:H	42:BU:44:LYS:CE	2.10	0.65
43:BV:6:ILE:HG12	43:BV:103:ILE:O	1.96	0.65
43:BV:68:ARG:HG3	43:BV:109:GLU:OE2	1.97	0.65
44:BW:54:VAL:C	44:BW:55:ASN:HD22	1.99	0.65
45:BX:74:PRO:HG2	45:BX:100:ALA:HB3	1.79	0.65
45:BX:98:VAL:N	45:BX:101:LYS:HE3	2.12	0.65
24:BA:2114:A:N3	24:BA:2168:G:H5'	2.12	0.65
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.61	0.65
1:AA:1320:C:C5	21:AV:37:ARG:CZ	2.80	0.65
1:AA:1366:C:O2'	1:AA:1367:C:H5'	1.96	0.65
1:AA:1399:C:O2'	1:AA:1400:C:OP2	2.15	0.65
1:AA:391:G:OP1	18:AS:28:ARG:NH2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:522:C:N4	1:AA:523:A:C6	2.65	0.65
1:AA:656:C:C2'	1:AA:657:G:H5'	2.27	0.65
1:AA:969:A:O2'	12:AM:55:LYS:NZ	2.25	0.65
3:AB:76:A:C4'	24:BA:2507:C:H4'	2.27	0.65
3:AC:8:U:H3	3:AC:14:A:H62	1.44	0.65
4:AE:171:ALA:O	4:AE:174:VAL:N	2.30	0.65
4:AE:97:TRP:HH2	4:AE:176:GLU:CG	2.09	0.65
6:AG:124:GLY:O	6:AG:126:ILE:HG12	1.96	0.65
1:AA:409:G:H5'	6:AG:24:GLU:HB3	1.79	0.65
10:AK:44:PHE:HE2	10:AK:109:ILE:HD13	1.62	0.65
10:AK:40:ALA:N	10:AK:45:ILE:HG23	2.11	0.65
10:AK:33:GLU:HG2	10:AK:59:LEU:CD1	2.24	0.65
13:AN:48:ILE:CG2	13:AN:63:LEU:HD13	2.25	0.65
1:AA:1227:A:C8	15:AP:117:VAL:CG2	2.79	0.65
1:AA:1329:A:H5'	15:AP:29:ARG:CZ	2.27	0.65
16:AQ:42:ILE:HA	16:AQ:45:ARG:HG2	1.79	0.65
16:AQ:52:GLN:O	16:AQ:53:LEU:HD23	1.96	0.65
48:B1:20:VAL:HG23	48:B1:55:LEU:HD23	1.79	0.65
48:B1:38:GLN:O	48:B1:41:GLN:HB2	1.97	0.65
49:B2:4:LEU:HD21	49:B2:56:VAL:CG2	2.24	0.65
24:BA:1059:G:C6	24:BA:1060:U:H1'	2.32	0.65
24:BA:1166:C:O2	24:BA:1184:G:N2	2.29	0.65
24:BA:974:G:N2	24:BA:1187:G:C6	2.65	0.65
24:BA:1238:G:C2	24:BA:1239:G:C4	2.85	0.65
24:BA:1398:C:H2'	24:BA:1399:C:C6	2.32	0.65
24:BA:1519:G:C3'	24:BA:1520:U:O4'	2.45	0.65
24:BA:1519:G:H3'	24:BA:1520:U:C2	2.31	0.65
24:BA:1520:U:C3'	24:BA:1521:G:H5''	2.26	0.65
24:BA:1543:A:O5'	24:BA:1544:C:H5''	1.97	0.65
24:BA:1623:G:C2	24:BA:1624:G:C8	2.85	0.65
24:BA:1670:C:OP1	24:BA:1671:U:OP2	2.13	0.65
24:BA:1703:G:N2	24:BA:1704:G:H1'	2.11	0.65
24:BA:176:G:C2'	24:BA:177:G:O4'	2.42	0.65
24:BA:1914:C:H2'	24:BA:1914:C:O2	1.97	0.65
24:BA:1947:C:C2	24:BA:1948:G:C8	2.85	0.65
24:BA:1834:U:O2'	24:BA:1969:A:C2	2.50	0.65
3:AB:63:G:O2'	24:BA:2482:G:C4'	2.41	0.65
24:BA:2567:G:C6	24:BA:2568:C:N4	2.64	0.65
24:BA:2569:G:N1	24:BA:2570:G:N7	2.45	0.65
24:BA:2075:U:O4'	24:BA:2597:G:N2	2.29	0.65
24:BA:2619:C:C2'	24:BA:2620:C:O5'	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2636:U:H4'	28:BE:79:ARG:CD	2.27	0.65
24:BA:2779:U:C5'	24:BA:2780:G:H3'	2.27	0.65
24:BA:784:A:OP1	24:BA:2588:G:C5'	2.44	0.65
24:BA:800:A:O2'	24:BA:801:G:P	2.55	0.65
25:BB:105:G:H4'	46:BY:32:HIS:CE1	2.31	0.65
27:BD:55:GLY:H	27:BD:218:ARG:CD	2.09	0.65
27:BD:46:GLN:C	27:BD:48:ARG:H	1.98	0.65
24:BA:2635:C:O3'	28:BE:78:LEU:HD12	1.96	0.65
30:BG:103:LEU:HD21	30:BG:176:LEU:HD11	1.78	0.65
30:BG:75:LYS:HB3	30:BG:84:LYS:CA	2.27	0.65
33:BL:19:PRO:CB	33:BL:22:PRO:HG2	2.26	0.65
34:BM:14:VAL:HG22	34:BM:138:LEU:HD13	1.78	0.65
35:BN:108:GLU:HB3	35:BN:111:PHE:HE2	1.61	0.65
35:BN:52:VAL:O	35:BN:53:LYS:HG2	1.97	0.65
36:BO:114:ILE:CG1	36:BO:130:PHE:HA	2.26	0.65
36:BO:46:LYS:HB3	36:BO:49:ARG:NH1	2.11	0.65
38:BQ:51:LEU:CD2	38:BQ:70:LEU:HD11	2.26	0.65
39:BR:49:VAL:CG1	39:BR:76:LYS:HE3	2.25	0.65
40:BS:32:TYR:HD2	40:BS:88:ILE:HA	1.62	0.65
40:BS:50:ILE:HD12	40:BS:66:VAL:CG2	2.27	0.65
24:BA:532:A:H4'	41:BT:28:ARG:NH1	2.12	0.65
41:BT:92:ARG:O	41:BT:95:LEU:HG	1.97	0.65
45:BX:14:LEU:N	45:BX:14:LEU:HD12	2.11	0.65
46:BY:53:ILE:O	46:BY:54:HIS:CG	2.50	0.65
3:AD:60:U:H6	3:AD:60:U:O5'	1.79	0.65
24:BA:2157:G:N2	24:BA:2157:G:OP2	2.30	0.65
26:BC:62:VAL:HG22	26:BC:63:SER:N	2.11	0.65
3:AD:40:C:H2'	3:AD:41:C:H5''	1.78	0.65
1:AA:1202:G:N2	1:AA:1203:C:H1'	2.11	0.65
1:AA:1346:A:H62	1:AA:1374:A:H3'	1.61	0.65
1:AA:1287:A:H61	1:AA:1371:G:C4'	2.10	0.65
1:AA:1528:U:C1'	1:AA:1529:G:H21	2.10	0.65
1:AA:181:G:O2'	1:AA:182:U:H5'	1.96	0.65
1:AA:187:C:O2	1:AA:191(A):G:C6	2.50	0.65
1:AA:51:A:H4'	1:AA:52:G:C5'	2.27	0.65
1:AA:520:A:H8	1:AA:521:G:H5''	1.61	0.65
1:AA:533:A:C5	1:AA:536:C:N4	2.65	0.65
1:AA:568:G:N2	1:AA:574:A:C2	2.63	0.65
1:AA:61:G:H2'	1:AA:62:U:H6	1.56	0.65
1:AA:679:C:O2'	1:AA:680:C:H5'	1.97	0.65
1:AA:983:A:H1'	1:AA:1201:A:C8	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:196:LEU:HD12	4:AE:196:LEU:C	2.17	0.65
6:AG:173:TRP:CE2	6:AG:189:PRO:HB3	2.32	0.65
11:AL:113:LYS:HZ2	11:AL:119:ALA:CB	2.09	0.65
14:AO:25:PRO:O	14:AO:27:LEU:N	2.30	0.65
15:AP:10:PRO:O	15:AP:45:VAL:HG21	1.97	0.65
17:AR:53:HIS:CD2	17:AR:57:LEU:HD11	2.32	0.65
50:B3:53:GLU:HG2	50:B3:54:GLY:N	2.12	0.65
53:B6:39:ARG:O	53:B6:40:TRP:HB2	1.97	0.65
24:BA:331:A:C5	24:BA:1209:G:C2	2.85	0.65
24:BA:1287:A:H5'	38:BQ:104:ARG:HG3	1.77	0.65
24:BA:1307:A:O2'	24:BA:1308:A:H5'	1.97	0.65
24:BA:1386:C:H2'	24:BA:1387:C:H6	1.60	0.65
24:BA:1400:G:H2'	24:BA:1401:G:C8	2.32	0.65
24:BA:1492:G:N3	24:BA:1493:C:N4	2.44	0.65
24:BA:1492:G:N3	24:BA:1493:C:N3	2.45	0.65
24:BA:1519:G:H4'	24:BA:1519:G:OP1	1.95	0.65
24:BA:1681:G:N1	24:BA:1762:A:N7	2.45	0.65
24:BA:1834:U:H4'	24:BA:1834:U:OP1	1.96	0.65
24:BA:1980:G:C5	24:BA:1982:C:C5	2.85	0.65
24:BA:2021:C:H5'	24:BA:2022:U:C5	2.31	0.65
24:BA:2051:A:C2	24:BA:2052:G:N7	2.65	0.65
24:BA:2286:A:N6	52:B5:32:ASN:H	1.88	0.65
24:BA:2439:A:H8	24:BA:2586:C:H4'	1.61	0.65
24:BA:2445:G:C2'	24:BA:2446:G:H8	2.07	0.65
24:BA:2611:U:H2'	24:BA:2612:C:O4'	1.97	0.65
24:BA:2777:G:C8	24:BA:2777:G:H3'	2.32	0.65
24:BA:597:U:O2	24:BA:598:G:N7	2.30	0.65
24:BA:91:A:N3	24:BA:91:A:C2'	2.60	0.65
25:BB:115:G:H4'	39:BR:50:SER:CB	2.27	0.65
25:BB:30:C:C2'	25:BB:31:C:H5'	2.26	0.65
24:BA:783:A:H3'	27:BD:227:ASN:CG	2.17	0.65
29:BF:4:VAL:O	29:BF:20:LEU:HD11	1.92	0.65
30:BG:39:ILE:HD12	30:BG:92:VAL:O	1.97	0.65
31:BH:29:PRO:HD3	31:BH:79:VAL:CA	2.27	0.65
34:BM:108:PRO:O	34:BM:113:GLY:HA3	1.97	0.65
35:BN:13:ASN:OD1	35:BN:52:VAL:HG12	1.96	0.65
35:BN:63:VAL:HB	35:BN:78:ARG:CG	2.26	0.65
36:BO:76:LYS:HD2	36:BO:101:VAL:HG21	1.77	0.65
36:BO:114:ILE:HG13	36:BO:123:LEU:HB2	1.78	0.65
37:BP:27:VAL:CG2	37:BP:28:ALA:N	2.53	0.65
37:BP:75:THR:HG22	37:BP:77:LYS:CD	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:74:ALA:CB	39:BR:108:GLY:CA	2.67	0.65
39:BR:69:VAL:HG12	39:BR:73:LEU:HD21	1.78	0.65
39:BR:89:ARG:CG	39:BR:90:GLY:N	2.57	0.65
24:BA:30:G:P	41:BT:11:ARG:HH22	2.20	0.65
42:BU:31:ALA:O	42:BU:33:VAL:HG23	1.95	0.65
42:BU:28:GLU:HG2	42:BU:94:LEU:HB2	1.79	0.65
32:BK:79:ILE:C	32:BK:144:VAL:HG23	2.16	0.65
3:AD:18:G:H2'	3:AD:19:G:C4'	2.26	0.65
3:AD:55:U:H2'	3:AD:57:G:N7	2.12	0.65
26:BC:103:ILE:CB	26:BC:127:LEU:HD21	2.23	0.65
26:BC:86:ALA:HB2	26:BC:149:ILE:C	2.16	0.65
34:BM:139:GLU:O	34:BM:140:VAL:HG23	1.97	0.65
1:AA:103:C:H1'	1:AA:151:A:C2	2.32	0.65
1:AA:129(A):G:H3'	1:AA:129(A):G:H8	1.61	0.65
1:AA:1378:C:N3	1:AA:1379:G:C1'	2.60	0.65
1:AA:1440:C:H2'	1:AA:1441:G:O4'	1.97	0.65
1:AA:361:G:N7	1:AA:362:G:C6	2.65	0.65
1:AA:568:G:N2	1:AA:574:A:H2	1.95	0.65
1:AA:758:G:H8	1:AA:758:G:O5'	1.79	0.65
1:AA:820:U:O2'	1:AA:821:G:OP2	2.14	0.65
1:AA:824:C:O4'	10:AK:1:MET:N	2.26	0.65
3:AC:36:A:N6	3:AC:37:A:N6	2.46	0.65
1:AA:1338:G:H21	3:AC:41:C:C1'	2.10	0.65
4:AE:39:ILE:O	4:AE:41:ILE:CD1	2.45	0.65
5:AF:193:TYR:HB2	5:AF:196:LEU:HD22	1.78	0.65
5:AF:38:ARG:CG	5:AF:94:LEU:HD21	2.27	0.65
6:AG:118:ARG:HG3	6:AG:136:PRO:CB	2.26	0.65
6:AG:56:VAL:HG12	6:AG:57:ARG:N	2.10	0.65
7:AH:137:GLU:HA	7:AH:137:GLU:OE2	1.97	0.65
12:AM:5:ARG:HB2	12:AM:5:ARG:NH1	2.11	0.65
13:AN:44:SER:H	13:AN:47:VAL:HB	1.62	0.65
14:AO:85:ILE:CD1	14:AO:98:TYR:CB	2.74	0.65
14:AO:85:ILE:CD1	14:AO:98:TYR:HB2	2.26	0.65
15:AP:16:ASP:O	15:AP:19:LEU:HG	1.97	0.65
19:AT:51:TYR:H	19:AT:51:TYR:HD1	1.41	0.65
20:AU:47:THR:N	20:AU:49:LYS:HZ3	1.91	0.65
49:B2:50:VAL:HG22	49:B2:53:LEU:HD12	1.79	0.65
50:B3:43:TYR:CA	50:B3:61:ARG:NH2	2.41	0.65
51:B4:20:ARG:HA	51:B4:23:HIS:CD2	2.31	0.65
38:BQ:33:ARG:HH22	51:B4:56:LYS:HB2	1.62	0.65
53:B6:28:ARG:O	53:B6:31:LEU:CB	2.41	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1033:U:H5''	55:B8:9:ARG:NH2	2.12	0.65
24:BA:1142(A):A:C6	24:BA:1143:A:H8	2.15	0.65
24:BA:1275:A:H2'	24:BA:1276:A:O4'	1.97	0.65
24:BA:137:C:O2'	24:BA:137(A):G:H5'	1.97	0.65
24:BA:13:A:N6	24:BA:525:U:N1	2.44	0.65
24:BA:1627:G:N2	24:BA:1628:G:H1'	2.11	0.65
24:BA:1773:A:H2	24:BA:1977:A:N6	1.94	0.65
24:BA:1784:A:H4'	24:BA:1785:A:N9	2.13	0.65
24:BA:1792:G:H2'	24:BA:1792:G:N3	2.12	0.65
24:BA:1834:U:C1'	24:BA:1969:A:C2	2.80	0.65
24:BA:1924:C:H2'	24:BA:1925:C:H6	1.62	0.65
24:BA:1935:G:C2'	24:BA:1962:C:N4	2.57	0.65
24:BA:2335:A:C6	24:BA:2337:G:C2	2.85	0.65
24:BA:2385:C:C2	24:BA:2386:C:C6	2.85	0.65
24:BA:2059:A:C2	24:BA:2503:A:N7	2.65	0.65
24:BA:2659:G:H1'	24:BA:2663:G:H1	1.62	0.65
24:BA:27:G:C2	24:BA:512:G:O2'	2.50	0.65
24:BA:2882:A:C5'	38:BQ:98:LEU:HD21	2.27	0.65
24:BA:412:A:H62	24:BA:2411:A:H1'	1.61	0.65
24:BA:464:U:H1'	24:BA:788:A:N6	2.09	0.65
24:BA:13:A:N6	24:BA:525:U:C2	2.65	0.65
24:BA:537:C:H2'	24:BA:539:G:C8	2.31	0.65
24:BA:612:G:C4'	24:BA:616:A:H61	2.03	0.65
24:BA:650:C:N3	24:BA:651:G:C2	2.65	0.65
24:BA:66:C:H2'	24:BA:67:U:C5'	2.27	0.65
24:BA:97:C:H2'	24:BA:98:G:O4'	1.97	0.65
25:BB:84:C:C2	25:BB:85:G:C8	2.84	0.65
27:BD:150:LYS:C	27:BD:152:GLY:H	2.00	0.65
24:BA:1775:U:N1	27:BD:208:LYS:HD2	2.12	0.65
27:BD:45:ASN:C	27:BD:46:GLN:HG3	2.18	0.65
27:BD:91:ARG:HH11	27:BD:91:ARG:N	1.94	0.65
28:BE:102:VAL:HG23	28:BE:200:GLU:CD	2.18	0.65
30:BG:104:GLU:HA	30:BG:108:ASN:HD22	1.61	0.65
30:BG:113:ARG:O	30:BG:114:ILE:HG22	1.97	0.65
30:BG:74:LYS:O	30:BG:75:LYS:HB2	1.97	0.65
31:BH:136:ILE:HG23	31:BH:137:ASP:N	2.10	0.65
31:BH:8:PRO:HD2	31:BH:69:ARG:HH11	1.62	0.65
24:BA:1137:G:HO2'	34:BM:105:GLY:HA3	1.61	0.65
24:BA:624:C:OP2	36:BO:105:LEU:HB3	1.97	0.65
37:BP:85:LYS:NZ	47:BZ:10:THR:HG21	2.12	0.65
37:BP:87:LYS:O	37:BP:87:LYS:HG2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:94:TYR:CD1	39:BR:94:TYR:N	2.64	0.65
24:BA:533:G:P	41:BT:25:TRP:HB2	2.37	0.65
42:BU:83:ARG:HD3	42:BU:84:LYS:N	2.12	0.65
43:BV:13:SER:O	43:BV:17:VAL:HG22	1.97	0.65
44:BW:27:THR:HG22	44:BW:80:ILE:CG2	2.26	0.65
44:BW:31:HIS:O	44:BW:33:LYS:N	2.30	0.65
45:BX:12:THR:HG21	45:BX:70:SER:O	1.97	0.65
46:BY:74:VAL:HG22	46:BY:86:VAL:HA	1.78	0.65
47:BZ:28:GLY:O	47:BZ:29:GLN:O	2.15	0.65
47:BZ:46:LYS:HD3	47:BZ:46:LYS:N	2.12	0.65
24:BA:2134:A:C2'	24:BA:2135:A:O5'	2.45	0.65
26:BC:10:LEU:HD21	26:BC:220:PRO:CD	2.25	0.65
26:BC:128:GLY:HA2	26:BC:137:LEU:CD1	2.27	0.65
45:BX:42:VAL:O	45:BX:61:ILE:HD13	1.97	0.65
24:BA:1416:G:H1'	24:BA:1583:A:N1	2.12	0.65
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.32	0.65
1:AA:124:G:H2'	1:AA:125:U:H6	1.61	0.64
1:AA:1256:A:O2'	1:AA:1257:U:H1'	1.97	0.64
1:AA:1345:U:H5'	1:AA:1346:A:OP1	1.96	0.64
1:AA:138:G:N2	1:AA:226:G:H1'	2.12	0.64
1:AA:1419:G:O2'	1:AA:1420:C:H6	1.80	0.64
1:AA:1490:C:H2'	1:AA:1491:G:H5'	1.75	0.64
1:AA:1508:G:O2'	1:AA:1509:C:H5'	1.96	0.64
1:AA:291:C:C3'	1:AA:305:G:H22	1.99	0.64
1:AA:307:C:N4	1:AA:308:C:H5	1.94	0.64
1:AA:59:A:H1'	1:AA:354:G:N2	2.12	0.64
1:AA:687:A:H61	1:AA:703:G:C1'	2.09	0.64
1:AA:737:A:O2'	1:AA:738:C:H5'	1.97	0.64
1:AA:759:A:N6	1:AA:760:G:N3	2.44	0.64
1:AA:888:G:C2	1:AA:889:A:N6	2.63	0.64
3:AB:37:A:H2'	3:AB:38:A:O4'	1.97	0.64
3:AC:29:G:H5'	15:AP:118:ALA:O	1.97	0.64
4:AE:118:LEU:CD1	4:AE:142:LEU:HD12	2.25	0.64
4:AE:208:ILE:HA	4:AE:211:ILE:CB	2.27	0.64
4:AE:20:GLU:HA	4:AE:21:ARG:NH2	2.08	0.64
4:AE:69:LEU:HD13	4:AE:70:PHE:N	2.12	0.64
5:AF:124:ILE:CD1	5:AF:130:VAL:HG13	2.27	0.64
5:AF:51:GLY:O	5:AF:70:VAL:HG13	1.97	0.64
7:AH:31:LEU:CD1	7:AH:129:ILE:HA	2.27	0.64
1:AA:6:G:N1	7:AH:96:PRO:HG2	2.12	0.64
11:AL:121:ARG:HG2	11:AL:121:ARG:HH11	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:58:VAL:HG12	14:AO:59:ARG:N	2.10	0.64
14:AO:54:LYS:CB	14:AO:70:ILE:HB	2.26	0.64
16:AQ:40:CYS:O	16:AQ:44:LEU:CB	2.45	0.64
17:AR:33:THR:HG23	17:AR:87:ILE:HD11	1.79	0.64
19:AT:62:SER:CB	19:AT:72:ARG:HG2	2.26	0.64
19:AT:82:MET:HA	19:AT:85:VAL:HG21	1.78	0.64
21:AV:62:ILE:CD1	21:AV:67:VAL:HA	2.26	0.64
22:AW:57:ARG:O	22:AW:59:ALA:N	2.29	0.64
23:AX:5:ASP:O	23:AX:7:ARG:HG2	1.97	0.64
48:B1:27:LEU:HD13	48:B1:52:ILE:CD1	2.26	0.64
49:B2:22:ALA:O	49:B2:25:ALA:HB3	1.97	0.64
50:B3:5:ILE:HD11	50:B3:10:VAL:CG2	2.21	0.64
51:B4:19:ARG:O	51:B4:21:SER:N	2.30	0.64
51:B4:21:SER:O	51:B4:22:HIS:C	2.34	0.64
54:B7:30:ARG:NH2	54:B7:43:GLN:N	2.45	0.64
24:BA:1069:A:N6	24:BA:1096:A:OP1	2.30	0.64
24:BA:1195:G:C2'	24:BA:1226:G:H22	2.10	0.64
24:BA:1226:G:H8	24:BA:1226:G:H3'	1.61	0.64
24:BA:1227:A:H2'	24:BA:1228:G:H5''	1.80	0.64
24:BA:1271:G:P	24:BA:1272:A:OP1	2.56	0.64
24:BA:1470:G:H3'	24:BA:1470:G:C8	2.32	0.64
24:BA:1472:A:C1'	24:BA:1473:G:C8	2.80	0.64
24:BA:1654:A:C2	24:BA:1655:A:C8	2.84	0.64
24:BA:1687:G:C5	24:BA:1688:U:H5	2.14	0.64
24:BA:1785:A:OP1	24:BA:1981:A:H3'	1.97	0.64
24:BA:1917:U:C6	24:BA:1918:A:C8	2.85	0.64
24:BA:2010:G:H2'	24:BA:2011:U:C5'	2.26	0.64
24:BA:2098:U:H2'	24:BA:2099:U:H6	1.61	0.64
24:BA:2262:U:O2'	24:BA:2328:A:N3	2.24	0.64
24:BA:227:A:N6	24:BA:2407:G:C8	2.65	0.64
3:AB:52:G:C4'	24:BA:2471:C:H5''	2.26	0.64
24:BA:2521:C:H2'	24:BA:2522:U:O4'	1.97	0.64
24:BA:2569:G:N3	24:BA:2570:G:C8	2.65	0.64
24:BA:1296:G:H5''	24:BA:2709:G:O2'	1.98	0.64
24:BA:270(S):G:C2	24:BA:270(T):G:N7	2.65	0.64
24:BA:445:C:H5''	41:BT:3:ARG:HG3	1.78	0.64
24:BA:515:A:O5'	24:BA:515:A:H8	1.78	0.64
24:BA:558:G:H2'	24:BA:559:G:H5'	1.78	0.64
24:BA:583:G:O2'	24:BA:584:C:H5'	1.96	0.64
24:BA:638:G:H3'	24:BA:638:G:H8	1.61	0.64
24:BA:641:C:N4	24:BA:646:A:H61	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:702:G:N2	24:BA:731:C:C2	2.66	0.64
24:BA:703:U:H2'	24:BA:704:G:C1'	2.26	0.64
24:BA:832:G:HO2'	24:BA:833:U:H6	1.45	0.64
24:BA:979:G:N7	24:BA:981:A:P	2.70	0.64
24:BA:99:U:H5'	24:BA:101:G:C5'	2.27	0.64
27:BD:97:TYR:HB2	27:BD:101:GLU:O	1.97	0.64
27:BD:52:ARG:O	27:BD:53:PHE:O	2.15	0.64
27:BD:53:PHE:O	27:BD:54:ARG:O	2.16	0.64
28:BE:128:SER:O	28:BE:130:GLY:N	2.31	0.64
28:BE:40:GLU:C	28:BE:41:LYS:HE3	2.18	0.64
29:BF:171:PRO:HB2	29:BF:172:TRP:CE3	2.32	0.64
29:BF:178:PRO:C	29:BF:180:GLY:N	2.50	0.64
29:BF:184:TYR:N	29:BF:184:TYR:CD2	2.64	0.64
31:BH:40:GLU:CB	31:BH:55:PRO:HG3	2.27	0.64
35:BN:7:TYR:HA	35:BN:18:LYS:CE	2.28	0.64
36:BO:113:LYS:HA	36:BO:129:ALA:HB1	1.78	0.64
36:BO:128:HIS:CG	36:BO:129:ALA:H	2.05	0.64
36:BO:23:PRO:CB	36:BO:29:LYS:N	2.60	0.64
36:BO:97:PRO:HB3	36:BO:102:ARG:NH1	2.12	0.64
37:BP:6:ARG:CB	37:BP:44:ALA:HB1	2.21	0.64
37:BP:75:THR:HB	37:BP:77:LYS:HE3	1.79	0.64
38:BQ:97:VAL:O	38:BQ:98:LEU:HD23	1.98	0.64
39:BR:12:PHE:O	39:BR:13:ARG:C	2.32	0.64
41:BT:105:VAL:CG1	41:BT:106:PHE:N	2.60	0.64
41:BT:50:ARG:CZ	41:BT:50:ARG:HB2	2.27	0.64
41:BT:70:ARG:HG2	41:BT:75:ASN:CA	2.18	0.64
43:BV:103:ILE:HD13	43:BV:103:ILE:H	1.62	0.64
45:BX:2:ARG:CD	45:BX:3:VAL:N	2.57	0.64
46:BY:159:PRO:O	46:BY:161:VAL:HG23	1.98	0.64
47:BZ:12:ASN:HA	47:BZ:14:ARG:NE	2.12	0.64
3:AD:18:G:N2	3:AD:57:G:H2'	2.12	0.64
26:BC:104:LEU:HD11	26:BC:126:LYS:O	1.97	0.64
26:BC:23:ASP:OD1	26:BC:183:GLU:HA	1.96	0.64
26:BC:7:TYR:CD1	26:BC:10:LEU:HB3	2.32	0.64
24:BA:1579:A:H2'	24:BA:1580:A:C4'	2.27	0.64
24:BA:2187:G:H2'	24:BA:2188:C:C6	2.30	0.64
34:BM:6:PRO:CA	34:BM:41:ASP:HB3	2.27	0.64
2:A1:48:U:OP2	2:A1:48:U:H6	1.78	0.64
19:AT:24:GLU:N	19:AT:24:GLU:CD	2.51	0.64
1:AA:1057:G:H2'	1:AA:1058:G:C8	2.32	0.64
1:AA:955:U:C1'	1:AA:1227:A:H61	2.03	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1298:C:H2'	1:AA:1298:C:O2	1.97	0.64
1:AA:1321:C:C4	1:AA:1322:C:H2'	2.32	0.64
1:AA:1358:U:OP2	1:AA:1359:C:C5	2.49	0.64
1:AA:1371:G:P	11:AL:11:LYS:HE3	2.37	0.64
1:AA:314:C:H2'	1:AA:315:A:H1'	1.78	0.64
1:AA:579:G:O5'	1:AA:579:G:H8	1.80	0.64
1:AA:603:U:H2'	1:AA:604:G:H8	1.62	0.64
1:AA:675:A:H1'	13:AN:116:HIS:CG	2.33	0.64
1:AA:754:C:C3'	1:AA:754:C:O2	2.46	0.64
4:AE:15:VAL:HG21	4:AE:210:SER:N	2.11	0.64
5:AF:84:ILE:O	5:AF:101:LEU:HD13	1.97	0.64
6:AG:101:LEU:CB	6:AG:138:TYR:O	2.46	0.64
9:AJ:17:VAL:HG11	9:AJ:44:TYR:CE2	2.32	0.64
11:AL:15:ALA:CB	11:AL:77:ILE:HG13	2.27	0.64
12:AM:7:LYS:HG3	12:AM:71:LEU:HD11	1.78	0.64
15:AP:97:PRO:CB	15:AP:101:GLN:HB2	2.25	0.64
16:AQ:26:ARG:HB2	16:AQ:43:CYS:CB	2.27	0.64
18:AS:6:LEU:HD22	18:AS:6:LEU:C	2.18	0.64
19:AT:4:LYS:CE	19:AT:5:VAL:O	2.44	0.64
19:AT:6:LEU:HD12	19:AT:6:LEU:C	2.17	0.64
1:AA:189:U:C4	19:AT:72:ARG:NH2	2.63	0.64
19:AT:88:TYR:CA	19:AT:91:ARG:NH2	2.60	0.64
20:AU:63:GLN:HA	20:AU:66:LEU:HD11	1.79	0.64
21:AV:40:ILE:HG12	21:AV:71:LEU:HD23	1.77	0.64
1:AA:1243:C:OP2	23:AX:10:ARG:CZ	2.45	0.64
49:B2:35:ARG:HH22	49:B2:47:VAL:CG1	2.10	0.64
24:BA:126:A:P	53:B6:17:GLY:HA3	2.37	0.64
55:B8:29:ASN:HB3	55:B8:32:HIS:CE1	2.32	0.64
24:BA:1061:U:H4'	24:BA:1070:A:C2'	2.27	0.64
24:BA:1229:G:C6	24:BA:1230:C:C2	2.84	0.64
24:BA:1608:A:C5	24:BA:1611:C:C4	2.85	0.64
24:BA:1931:U:H6	24:BA:1932:A:C8	2.15	0.64
24:BA:230:U:H2'	24:BA:231:C:C6	2.32	0.64
24:BA:2612:C:O2	51:B4:4:HIS:CG	2.50	0.64
24:BA:2863:C:O2'	24:BA:2864:G:H5'	1.95	0.64
24:BA:400:G:C8	24:BA:400:G:H3'	2.32	0.64
24:BA:465:G:C5	24:BA:466:A:N7	2.65	0.64
24:BA:475:U:C6	24:BA:509:C:N4	2.65	0.64
24:BA:663:G:O2'	24:BA:940:G:C4'	2.40	0.64
24:BA:714:U:O2	24:BA:717:G:C8	2.50	0.64
24:BA:930:U:O2	24:BA:932:G:C2	2.50	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:110:G:H2'	25:BB:111:U:O5'	1.97	0.64
25:BB:24:G:N2	25:BB:27:C:H42	1.95	0.64
27:BD:181:GLU:CB	27:BD:268:ARG:NH2	2.59	0.64
28:BE:164:ARG:O	28:BE:165:VAL:CG2	2.44	0.64
28:BE:164:ARG:C	28:BE:165:VAL:CG2	2.65	0.64
28:BE:27:LEU:CD1	28:BE:76:ARG:NH1	2.61	0.64
28:BE:49:LEU:HD21	28:BE:76:ARG:N	2.12	0.64
29:BF:82:ILE:CD1	29:BF:82:ILE:H	2.11	0.64
30:BG:16:ARG:NH2	30:BG:16:ARG:HG3	2.09	0.64
31:BH:105:LEU:HD12	31:BH:113:VAL:HG11	1.79	0.64
31:BH:157:TYR:CD1	31:BH:158:HIS:N	2.65	0.64
32:BK:22:LYS:HB3	32:BK:23:PRO:CD	2.28	0.64
33:BL:117:THR:O	33:BL:118:THR:HG23	1.97	0.64
33:BL:10:LEU:HD22	33:BL:27:LEU:HD21	1.78	0.64
34:BM:15:LEU:HD23	34:BM:15:LEU:N	2.12	0.64
35:BN:28:SER:O	35:BN:29:ASN:HB2	1.96	0.64
1:AA:1423:G:H5'	35:BN:49:ARG:NH2	2.12	0.64
35:BN:94:ARG:HG3	35:BN:95:GLY:H	1.56	0.64
36:BO:35:HIS:O	36:BO:36:LYS:HD3	1.97	0.64
36:BO:81:GLN:CA	36:BO:86:LYS:HE3	2.26	0.64
37:BP:45:GLN:HA	37:BP:48:GLU:HG2	1.79	0.64
40:BS:53:ARG:NH2	40:BS:102:ILE:HD13	2.12	0.64
41:BT:69:CYS:HG	41:BT:70:ARG:HG3	1.61	0.64
41:BT:79:PHE:CE1	41:BT:83:LEU:HD11	2.32	0.64
42:BU:22:VAL:CG1	42:BU:23:GLU:N	2.61	0.64
42:BU:72:VAL:HG12	42:BU:73:SER:H	1.61	0.64
43:BV:27:LYS:HB3	43:BV:31:GLU:OE2	1.97	0.64
43:BV:59:VAL:HG21	43:BV:66:GLU:HB2	1.77	0.64
43:BV:66:GLU:O	43:BV:69:LEU:HD13	1.98	0.64
44:BW:11:PRO:HA	44:BW:28:PHE:HB3	1.79	0.64
46:BY:11:GLU:HG3	46:BY:36:LYS:NZ	2.11	0.64
24:BA:2161:C:C2	24:BA:2162:G:N7	2.66	0.64
26:BC:49:ILE:HD11	26:BC:165:ASN:HD22	1.62	0.64
1:AA:772:U:O2'	1:AA:773:G:H5'	1.97	0.64
1:AA:1125:U:H4'	1:AA:1126:U:C5	2.32	0.64
1:AA:1196:U:H4'	1:AA:1197:G:O5'	1.98	0.64
1:AA:1295:G:N2	1:AA:1302:U:H3	1.95	0.64
1:AA:1389:C:H2'	1:AA:1390:U:H5'	1.80	0.64
1:AA:1431:C:H42	1:AA:1469:G:H1	1.45	0.64
1:AA:665:A:H2'	1:AA:725:G:H21	1.57	0.64
1:AA:755:G:H2'	1:AA:756:C:C6	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:20:U:O2	3:AC:20:U:C2'	2.46	0.64
3:AC:21:A:N1	3:AC:48:C:C4	2.65	0.64
4:AE:224:GLN:HG2	4:AE:229:VAL:CG2	2.27	0.64
4:AE:49:GLU:O	4:AE:52:GLU:CD	2.36	0.64
4:AE:61:LEU:HD11	4:AE:68:ILE:HD13	1.78	0.64
5:AF:112:SER:O	5:AF:116:VAL:HG23	1.96	0.64
5:AF:11:ARG:HD3	5:AF:15:THR:CG2	2.26	0.64
6:AG:19:LEU:C	6:AG:21:LEU:N	2.45	0.64
8:AI:2:ARG:CZ	8:AI:69:GLU:HG2	2.28	0.64
1:AA:1373:G:C5'	9:AJ:36:LYS:HB2	2.27	0.64
10:AK:38:ILE:HD11	10:AK:118:VAL:HB	1.79	0.64
10:AK:26:VAL:CG2	10:AK:27:PRO:HD2	2.23	0.64
10:AK:29:SER:C	10:AK:32:LYS:HZ2	2.01	0.64
11:AL:9:ARG:HD2	11:AL:14:VAL:HG13	1.80	0.64
14:AO:48:PRO:CG	14:AO:49:ASN:H	2.10	0.64
19:AT:59:ILE:CG1	19:AT:71:PHE:HB3	2.27	0.64
21:AV:38:SER:HB3	21:AV:71:LEU:HG	1.78	0.64
22:AW:26:ASN:ND2	22:AW:27:LYS:N	2.44	0.64
1:AA:1326:C:H5'	23:AX:12:LYS:HZ1	1.63	0.64
49:B2:6:VAL:HG21	49:B2:35:ARG:NH2	2.11	0.64
24:BA:1025:G:H1'	24:BA:1134:G:H4'	1.79	0.64
24:BA:1153:C:C4	24:BA:1154:G:O6	2.51	0.64
24:BA:1197:G:C5	24:BA:1198:U:C6	2.85	0.64
24:BA:1409:C:O2'	24:BA:1410:G:H5'	1.98	0.64
24:BA:1480:G:H2'	24:BA:1480:G:N3	2.11	0.64
24:BA:1534:G:H21	24:BA:1537:C:H41	1.46	0.64
24:BA:1558:A:H2	24:BA:1560:G:N9	1.96	0.64
24:BA:1592:C:O2'	24:BA:1593:G:H5'	1.97	0.64
24:BA:176:G:C2'	24:BA:177:G:H8	2.09	0.64
24:BA:206:U:OP2	24:BA:206:U:C6	2.49	0.64
24:BA:2208:U:H1'	24:BA:2217:G:C2	2.32	0.64
24:BA:199:A:C5	24:BA:2433:A:C2	2.84	0.64
24:BA:2749:A:H8	24:BA:2749:A:OP2	1.80	0.64
24:BA:2815:C:C2	24:BA:2816:C:C6	2.86	0.64
24:BA:2839:G:H2'	24:BA:2840:C:C6	2.31	0.64
24:BA:303:U:O2'	24:BA:304:G:H5'	1.98	0.64
24:BA:502:A:H3'	24:BA:502:A:C8	2.32	0.64
24:BA:544:C:H2'	24:BA:545:G:O4'	1.97	0.64
24:BA:566:U:H2'	24:BA:567:A:C8	2.33	0.64
24:BA:669:G:C4	24:BA:801:G:C2	2.85	0.64
24:BA:464:U:C2	24:BA:788:A:N7	2.65	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:74:GLY:O	27:BD:118:VAL:HG11	1.98	0.64
24:BA:1791:A:O3'	27:BD:206:LEU:HD21	1.97	0.64
27:BD:234:GLY:N	27:BD:241:PRO:CG	2.60	0.64
24:BA:1798:U:H5''	27:BD:257:LEU:HB2	1.78	0.64
27:BD:77:ALA:HB1	27:BD:95:LEU:HD11	1.79	0.64
28:BE:101:ARG:HD2	28:BE:169:ASN:ND2	2.09	0.64
29:BF:192:LEU:HD13	29:BF:192:LEU:C	2.18	0.64
33:BL:12:LEU:HD22	33:BL:19:PRO:HG3	1.78	0.64
33:BL:56:GLU:HB3	33:BL:67:PHE:CD2	2.32	0.64
24:BA:558:G:C5'	34:BM:109:LYS:HD3	2.27	0.64
34:BM:15:LEU:HD21	34:BM:137:LYS:CB	2.26	0.64
34:BM:89:LYS:HA	34:BM:92:ALA:CB	2.26	0.64
36:BO:114:ILE:N	36:BO:114:ILE:CD1	2.59	0.64
36:BO:126:VAL:HA	36:BO:146:VAL:H	1.59	0.64
36:BO:49:ARG:HA	36:BO:52:GLU:HG2	1.80	0.64
39:BR:103:GLU:HA	39:BR:106:ARG:CB	2.28	0.64
40:BS:63:VAL:CG1	40:BS:63:VAL:O	2.44	0.64
24:BA:2018:G:C1'	41:BT:34:LYS:NZ	2.59	0.64
42:BU:14:VAL:HG21	42:BU:21:ARG:HH22	1.62	0.64
42:BU:62:LEU:CD2	42:BU:99:ILE:H	2.04	0.64
43:BV:69:LEU:HB3	43:BV:107:LEU:HD11	1.79	0.64
43:BV:66:GLU:HA	43:BV:69:LEU:CD1	2.28	0.64
45:BX:23:ARG:CD	45:BX:39:VAL:HG22	2.28	0.64
46:BY:10:ARG:NE	46:BY:36:LYS:HB2	2.12	0.64
46:BY:128:VAL:HB	46:BY:162:GLU:HB3	1.79	0.64
32:BK:111:PRO:HD2	32:BK:112:LYS:NZ	2.13	0.64
1:AA:350:G:N2	1:AA:351:G:C2	2.66	0.64
1:AA:1278:U:H5'	1:AA:1279:A:H5'	1.78	0.64
1:AA:1434:A:N6	1:AA:1435:G:C2	2.66	0.64
1:AA:132:C:N3	1:AA:231:G:C2	2.66	0.64
1:AA:518:C:C5	1:AA:530:G:C5	2.85	0.64
1:AA:921:U:O2'	1:AA:922:G:H5'	1.98	0.64
4:AE:208:ILE:CD1	4:AE:239:VAL:HG11	2.27	0.64
4:AE:219:VAL:O	4:AE:223:ILE:CG1	2.46	0.64
5:AF:122:GLU:HA	5:AF:125:GLU:CG	2.19	0.64
5:AF:132:ARG:HB3	5:AF:136:GLN:NE2	2.13	0.64
7:AH:140:ARG:CB	7:AH:140:ARG:NH1	2.61	0.64
8:AI:46:ARG:NH2	20:AU:37:VAL:CG1	2.59	0.64
8:AI:12:PRO:HB2	8:AI:57:GLN:HE21	1.61	0.64
9:AJ:155:ARG:NH1	9:AJ:156:TRP:N	2.40	0.64
9:AJ:65:ALA:N	9:AJ:128:ALA:HA	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:64:LYS:O	10:AK:79:VAL:HB	1.98	0.64
13:AN:53:SER:OG	13:AN:54:ARG:N	2.28	0.64
14:AO:85:ILE:HA	14:AO:99:HIS:O	1.97	0.64
15:AP:10:PRO:HG3	15:AP:18:ALA:CB	2.27	0.64
16:AQ:34:TYR:OH	16:AQ:44:LEU:HD22	1.97	0.64
51:B4:55:ARG:H	51:B4:55:ARG:CD	2.10	0.64
24:BA:1338:G:O2'	24:BA:1339:G:H5'	1.97	0.64
24:BA:138:G:N2	24:BA:139:G:N7	2.46	0.64
24:BA:1394:U:O3'	24:BA:1603:A:H5''	1.97	0.64
24:BA:1407:C:OP2	24:BA:1407:C:C6	2.51	0.64
24:BA:150:C:O2	24:BA:151:C:C6	2.50	0.64
24:BA:1549:C:H2'	24:BA:1550:C:H6	1.63	0.64
24:BA:1639:U:H2'	24:BA:1640:C:C5'	2.28	0.64
24:BA:1703:G:C2	24:BA:1704:G:C4	2.85	0.64
24:BA:1803:A:H2'	24:BA:1804:C:H6	1.61	0.64
24:BA:1917:U:H2'	24:BA:1918:A:C1'	2.27	0.64
24:BA:212:G:H2'	24:BA:213:A:H8	1.63	0.64
24:BA:954:G:H1'	24:BA:2274:A:C2	2.33	0.64
24:BA:2459:A:H2	24:BA:2492:U:C4	2.16	0.64
24:BA:2538:C:C2	24:BA:2539:C:C5	2.86	0.64
24:BA:2563:U:H4'	35:BN:28:SER:HG	1.60	0.64
24:BA:527:C:O4'	24:BA:2779:U:O4	2.16	0.64
24:BA:297:C:H3'	24:BA:298:G:C8	2.31	0.64
24:BA:312:G:H5''	24:BA:313:C:OP2	1.97	0.64
24:BA:501:A:O5'	24:BA:501:A:C8	2.45	0.64
24:BA:581:C:H4'	41:BT:32:PHE:CZ	2.33	0.64
24:BA:582:G:H2'	24:BA:583:G:C8	2.32	0.64
24:BA:604:G:H21	24:BA:658:C:H5'	1.62	0.64
24:BA:611:C:H2'	24:BA:612:G:O4'	1.97	0.64
24:BA:60:G:C8	24:BA:63:U:C4	2.86	0.64
24:BA:641:C:H2'	24:BA:642:G:O4'	1.97	0.64
24:BA:843:G:N2	24:BA:936:C:C2	2.65	0.64
24:BA:960:A:C2	24:BA:962:G:C1'	2.81	0.64
24:BA:975:G:C6	24:BA:976:C:C5	2.85	0.64
25:BB:50:G:H2'	25:BB:50:G:N3	2.11	0.64
27:BD:118:VAL:O	27:BD:119:ALA:HB2	1.98	0.64
27:BD:146:GLU:CB	27:BD:154:LYS:H	2.03	0.64
27:BD:71:ASP:O	27:BD:72:LYS:HB2	1.95	0.64
27:BD:80:ALA:HB2	27:BD:96:HIS:ND1	2.11	0.64
28:BE:119:ARG:HH11	28:BE:120:TRP:HA	1.62	0.64
28:BE:48:GLN:CD	28:BE:48:GLN:N	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:139:PHE:CE2	29:BF:167:ALA:HA	2.32	0.64
30:BG:4:ASP:O	30:BG:7:LEU:HB2	1.97	0.64
32:BK:21:VAL:HG11	32:BK:30:LEU:CD2	2.27	0.64
34:BM:37:LYS:HE2	34:BM:43:THR:CG2	2.26	0.64
34:BM:87:LEU:O	34:BM:91:LEU:CD2	2.45	0.64
35:BN:94:ARG:HG2	35:BN:96:THR:O	1.97	0.64
24:BA:637:A:N7	36:BO:115:LEU:HG	2.11	0.64
38:BQ:108:GLY:O	38:BQ:110:PRO:HD3	1.97	0.64
38:BQ:5:LYS:HZ1	38:BQ:6:SER:C	2.00	0.64
40:BS:64:ARG:O	40:BS:65:LYS:C	2.35	0.64
44:BW:12:VAL:HG23	44:BW:28:PHE:C	2.17	0.64
44:BW:92:LEU:N	44:BW:92:LEU:HD12	2.10	0.64
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.33	0.64
24:BA:1418:G:OP1	24:BA:1588:C:C4'	2.45	0.64
1:AA:1382:C:H6	1:AA:1382:C:O5'	1.80	0.64
2:A1:38:U:O2'	2:A1:39:U:H5'	1.98	0.64
1:AA:109:A:H4'	1:AA:110:C:OP2	1.95	0.64
1:AA:1203:C:H2'	1:AA:1204:A:O4'	1.97	0.64
1:AA:449:C:C2'	1:AA:450:G:O4'	2.44	0.64
1:AA:817:C:O2	1:AA:817:C:C2'	2.45	0.64
1:AA:858:G:N2	1:AA:870:U:OP2	2.30	0.64
3:AC:74:C:H3'	3:AC:75:C:H5''	1.78	0.64
4:AE:130:ARG:HD3	4:AE:131:PRO:CD	2.27	0.64
4:AE:12:GLU:C	4:AE:14:GLY:H	2.01	0.64
4:AE:58:ILE:O	4:AE:61:LEU:HD22	1.98	0.64
5:AF:14:ILE:HG22	5:AF:15:THR:N	2.12	0.64
6:AG:141:ARG:HH11	6:AG:142:PRO:CD	2.10	0.64
7:AH:84:PHE:CG	7:AH:134:ALA:HA	2.33	0.64
9:AJ:29:LYS:NZ	9:AJ:102:ARG:HB2	2.12	0.64
9:AJ:125:MET:HG3	9:AJ:126:ASP:N	2.10	0.64
1:AA:1378:C:OP1	9:AJ:6:ARG:HD3	1.97	0.64
10:AK:32:LYS:CG	10:AK:33:GLU:N	2.61	0.64
13:AN:125:PHE:CD1	13:AN:125:PHE:N	2.66	0.64
13:AN:63:LEU:O	13:AN:66:LEU:HB2	1.97	0.64
17:AR:49:ASP:CG	17:AR:52:SER:HB2	2.17	0.64
19:AT:35:VAL:HG12	19:AT:36:ILE:N	2.13	0.64
20:AU:73:ALA:C	20:AU:79:LEU:HD11	2.16	0.64
52:B5:7:ILE:CG2	52:B5:8:LYS:N	2.61	0.64
24:BA:1221:C:C2	24:BA:1229:G:N2	2.65	0.64
24:BA:1392:A:C6	24:BA:1393:A:N6	2.66	0.64
24:BA:1420:U:O2'	24:BA:1421:G:H5''	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1532:C:O2'	24:BA:1533:C:O4'	2.07	0.64
24:BA:13:A:N7	24:BA:15:G:O6	2.31	0.64
24:BA:1603:A:C2	24:BA:1604:C:C4	2.86	0.64
24:BA:1759:A:O2'	24:BA:1760:A:H5'	1.96	0.64
24:BA:1860:G:H5''	26:BC:206:GLY:CA	2.26	0.64
24:BA:1786:A:C4'	24:BA:1938:A:H61	2.05	0.64
24:BA:197:A:N1	24:BA:198:C:H1'	2.12	0.64
24:BA:2039:C:H2'	24:BA:2040:C:C5	2.33	0.64
24:BA:2246:G:H2'	24:BA:2247:A:H8	1.62	0.64
24:BA:2418:A:C2'	24:BA:2419:U:O4'	2.44	0.64
24:BA:2478:A:N7	24:BA:2479:G:N7	2.45	0.64
24:BA:2531:A:C2'	24:BA:2532:G:O5'	2.46	0.64
24:BA:1953:A:H62	24:BA:2550:G:C4'	2.10	0.64
24:BA:2572:A:H5''	24:BA:2574:G:H5''	1.79	0.64
24:BA:293:U:C3'	24:BA:293:U:C6	2.80	0.64
24:BA:460:A:H3'	24:BA:461:C:C6	2.31	0.64
24:BA:596:G:C2	24:BA:597:U:C2	2.85	0.64
24:BA:784:A:P	24:BA:2588:G:H5''	2.37	0.64
24:BA:89:G:OP2	24:BA:91:A:OP1	2.15	0.64
24:BA:2209:C:H4'	27:BD:150:LYS:CB	2.24	0.64
29:BF:196:LEU:HB3	29:BF:199:TRP:CD1	2.33	0.64
29:BF:18:ARG:HG3	29:BF:19:GLU:H	1.63	0.64
30:BG:41:GLN:HG3	30:BG:42:GLY:H	1.60	0.64
33:BL:99:ILE:HG23	33:BL:103:GLN:OE1	1.98	0.64
34:BM:128:HIS:O	34:BM:131:GLN:CB	2.45	0.64
35:BN:103:ALA:HB1	35:BN:107:ARG:HD2	1.79	0.64
36:BO:131:SER:O	36:BO:134:ALA:CB	2.43	0.64
37:BP:99:PRO:HG2	37:BP:101:ARG:NE	2.12	0.64
24:BA:2467:C:O2	37:BP:124:LYS:HD3	1.98	0.64
40:BS:21:GLU:O	40:BS:23:ARG:N	2.30	0.64
40:BS:57:PHE:N	40:BS:57:PHE:CD2	2.63	0.64
41:BT:82:GLY:CA	41:BT:117:GLN:HG2	2.21	0.64
41:BT:35:ALA:O	41:BT:38:THR:OG1	2.14	0.64
42:BU:68:LYS:CG	42:BU:95:LEU:HD21	2.26	0.64
43:BV:16:LYS:HZ2	43:BV:16:LYS:H	1.44	0.64
45:BX:32:PRO:HB2	45:BX:34:LYS:HE3	1.79	0.64
45:BX:72:VAL:HG21	45:BX:81:LYS:HE2	1.79	0.64
46:BY:110:GLY:HA2	46:BY:144:LEU:HB2	1.78	0.64
32:BK:93:THR:HG23	32:BK:96:ASP:N	2.11	0.64
26:BC:97:GLU:HB3	26:BC:126:LYS:HZ2	1.62	0.64
1:AA:111:G:H5''	1:AA:112:G:OP2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.33	0.64
1:AA:1226:C:O3'	15:AP:111:LYS:NZ	2.28	0.64
1:AA:1273:G:H3'	1:AA:1274:G:H8	1.63	0.64
1:AA:1317:C:H2'	1:AA:1318:A:O4'	1.97	0.64
1:AA:394:G:C6	1:AA:395:C:N4	2.66	0.64
1:AA:452:A:N6	1:AA:480:U:C2	2.66	0.64
1:AA:748:C:C6	1:AA:748:C:C3'	2.81	0.64
1:AA:765:G:H21	1:AA:816:A:H2	1.45	0.64
1:AA:809:G:H2'	1:AA:810:C:H5'	1.79	0.64
1:AA:841:U:O2	1:AA:841:U:H2'	1.97	0.64
3:AC:47:U:H3'	3:AC:47:U:C6	2.33	0.64
5:AF:35:GLU:O	5:AF:38:ARG:HG2	1.97	0.64
6:AG:205:GLU:CD	7:AH:100:VAL:HB	2.17	0.64
8:AI:30:LEU:CA	8:AI:75:LEU:HD11	2.23	0.64
8:AI:78:GLU:O	8:AI:81:ILE:HD12	1.96	0.64
9:AJ:38:LEU:HA	9:AJ:41:ARG:HB2	1.80	0.64
1:AA:1367:C:OP1	11:AL:115:GLY:HA2	1.97	0.64
1:AA:684:A:C4'	13:AN:12:ARG:NH2	2.55	0.64
13:AN:18:ARG:HB2	13:AN:20:TYR:HE1	1.62	0.64
14:AO:76:ASN:ND2	14:AO:77:LEU:HD23	2.13	0.64
15:AP:29:ARG:CZ	15:AP:64:TRP:NE1	2.61	0.64
1:AA:667:G:H4'	17:AR:51:HIS:ND1	2.12	0.64
18:AS:14:ASN:HB2	18:AS:42:ARG:HH12	1.63	0.64
22:AW:26:ASN:HD22	22:AW:27:LYS:N	1.95	0.64
48:B1:48:LEU:HD12	48:B1:51:GLN:NE2	2.12	0.64
50:B3:28:LYS:HB3	50:B3:29:PRO:CD	2.28	0.64
24:BA:1363:C:H41	50:B3:2:LYS:HE2	1.60	0.64
43:BV:38:TYR:CD2	51:B4:39:MET:HE2	2.32	0.64
24:BA:1083:U:O2'	24:BA:1084:A:H8	1.80	0.64
24:BA:1142(A):A:P	24:BA:1143:A:H5'	2.37	0.64
24:BA:1298:C:H4'	24:BA:1302:A:N6	2.13	0.64
24:BA:1471:A:OP2	24:BA:1472:A:H2	1.79	0.64
24:BA:1681:G:C2'	24:BA:1682:G:OP1	2.44	0.64
24:BA:1787:A:H2'	24:BA:1788:C:O4'	1.98	0.64
24:BA:1935:G:O2'	24:BA:1937:A:C2	2.40	0.64
24:BA:1977:A:C2	24:BA:1978:A:C4	2.86	0.64
24:BA:197:A:O4'	24:BA:2068:U:C2	2.50	0.64
24:BA:2213:U:C3'	24:BA:2213:U:O2	2.43	0.64
24:BA:2346:A:C1'	24:BA:2383:G:C8	2.74	0.64
24:BA:2481:G:O2'	24:BA:2482:G:C5'	2.46	0.64
24:BA:2592:G:O6	24:BA:2593:U:C4	2.51	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:746:A:C8	24:BA:2612:C:O5'	2.50	0.64
24:BA:2625:G:H2'	24:BA:2626:C:C6	2.33	0.64
24:BA:2625:G:H3'	24:BA:2626:C:C5	2.33	0.64
24:BA:2663:G:H2'	24:BA:2664:G:C8	2.33	0.64
24:BA:270(W):G:C5	24:BA:270(X):G:C8	2.86	0.64
24:BA:2807:G:H2'	24:BA:2808:U:C5	2.32	0.64
24:BA:2850:A:N3	24:BA:2869:G:H4'	2.11	0.64
24:BA:642:G:H3'	24:BA:642:G:C8	2.33	0.64
25:BB:80:U:H2'	25:BB:81:G:C8	2.31	0.64
27:BD:148:GLU:CB	27:BD:154:LYS:HZ1	2.05	0.64
27:BD:247:ALA:O	27:BD:248:SER:O	2.15	0.64
28:BE:112:GLY:O	28:BE:159:HIS:HA	1.96	0.64
29:BF:153:SER:H	29:BF:190:GLU:HG3	1.62	0.64
15:AP:3:ARG:HH21	30:BG:141:PHE:H	1.43	0.64
30:BG:74:LYS:HE2	30:BG:75:LYS:HE3	1.80	0.64
30:BG:60:LEU:CD2	30:BG:90:LEU:HD11	2.22	0.64
31:BH:87:LEU:O	31:BH:131:VAL:O	2.13	0.64
34:BM:127:ASP:N	34:BM:129:PRO:HD2	2.09	0.64
35:BN:77:ILE:HA	35:BN:78:ARG:NH1	2.13	0.64
37:BP:122:GLY:C	37:BP:124:LYS:N	2.47	0.64
38:BQ:86:ARG:HH12	38:BQ:87:TYR:HE2	1.43	0.64
39:BR:11:LYS:N	39:BR:11:LYS:CD	2.59	0.64
39:BR:75:GLU:CA	39:BR:78:LEU:HB3	2.27	0.64
42:BU:15:GLU:CA	42:BU:100:ARG:HH12	2.09	0.64
43:BV:34:ASN:ND2	43:BV:37:ARG:HH11	1.95	0.64
47:BZ:50:ASN:HA	47:BZ:62:LEU:HD13	1.78	0.64
47:BZ:31:VAL:CG1	47:BZ:67:VAL:HG22	2.28	0.64
26:BC:77:ILE:CD1	26:BC:123:VAL:HG13	2.27	0.64
31:BH:20:ALA:CB	31:BH:21:PRO:CD	2.76	0.64
1:AA:1072:G:C6	1:AA:1073:U:C4	2.86	0.64
1:AA:983:A:C1'	1:AA:1201:A:N7	2.59	0.64
1:AA:1404:C:C1'	1:AA:1499:A:N1	2.61	0.64
1:AA:1436:U:O5'	1:AA:1436:U:H6	1.80	0.64
1:AA:1471:G:H2'	1:AA:1472:U:C6	2.33	0.64
1:AA:55:A:H2'	1:AA:56:U:H5'	1.77	0.64
1:AA:689:C:C2	1:AA:690:G:C8	2.86	0.64
1:AA:959:A:H1'	1:AA:985:C:C1'	2.27	0.64
1:AA:982:U:H1'	1:AA:983:A:N6	2.12	0.64
4:AE:78:GLN:HE22	4:AE:96:ARG:NH2	1.96	0.64
1:AA:1100:C:C2'	4:AE:98:LEU:HD11	2.28	0.64
5:AF:51:GLY:O	5:AF:52:LEU:O	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:110:PHE:O	6:AG:161:ASN:ND2	2.31	0.64
6:AG:20:TYR:C	6:AG:26:CYS:SG	2.75	0.64
7:AH:76:ILE:HG22	7:AH:78:HIS:CD2	2.33	0.64
8:AI:76:ALA:O	8:AI:80:ARG:HG3	1.98	0.64
10:AK:126:LYS:CD	10:AK:127:LEU:N	2.61	0.64
10:AK:29:SER:HB2	10:AK:32:LYS:HZ3	1.63	0.64
11:AL:117:HIS:HD2	11:AL:121:ARG:HD3	1.63	0.64
11:AL:28:VAL:O	11:AL:30:GLY:N	2.30	0.64
11:AL:38:GLN:O	11:AL:40:LEU:N	2.30	0.64
1:AA:528:C:H42	14:AO:49:ASN:HD21	1.43	0.64
15:AP:19:LEU:C	15:AP:25:ILE:HG21	2.18	0.64
16:AQ:40:CYS:HB2	16:AQ:42:ILE:HG13	1.80	0.64
17:AR:34:LEU:CG	17:AR:35:ARG:H	2.09	0.64
1:AA:659:U:OP1	17:AR:9:GLN:NE2	2.31	0.64
21:AV:30:LEU:HA	21:AV:49:ILE:CA	2.26	0.64
22:AW:13:LEU:O	22:AW:14:LYS:C	2.36	0.64
49:B2:52:HIS:CE1	49:B2:53:LEU:HG	2.33	0.64
24:BA:1264:G:P	51:B4:15:ARG:HH11	2.21	0.64
55:B8:23:VAL:O	55:B8:36:GLN:HG2	1.96	0.64
24:BA:1288:U:C5'	24:BA:1289:C:OP2	2.40	0.64
24:BA:1372:U:C2'	24:BA:1373:A:H5'	2.27	0.64
24:BA:1498:C:H1'	24:BA:1576:U:H4'	1.80	0.64
24:BA:1759:A:H2'	24:BA:1760:A:O5'	1.97	0.64
24:BA:2283:C:C4	24:BA:2284:C:H1'	2.33	0.64
24:BA:2296:U:C3'	24:BA:2296:U:C6	2.79	0.64
24:BA:2469:A:H61	24:BA:2481:G:H1'	1.62	0.64
24:BA:2645:G:C8	24:BA:2645:G:OP2	2.50	0.64
24:BA:2720:U:H3'	24:BA:2721:A:C8	2.33	0.64
24:BA:348:G:H2'	24:BA:349:G:H8	1.63	0.64
24:BA:354:G:O2'	24:BA:355:G:H5'	1.98	0.64
24:BA:558:G:H5'	34:BM:112:LEU:CG	2.27	0.64
24:BA:565:C:O3'	24:BA:1253:A:H2	1.80	0.64
24:BA:76:C:H6	24:BA:76:C:O5'	1.81	0.64
24:BA:876:C:O5'	24:BA:876:C:H6	1.81	0.64
24:BA:950:G:C6	24:BA:951:C:C4	2.85	0.64
24:BA:964:C:O2'	24:BA:2273:A:C8	2.49	0.64
24:BA:969:U:C4	24:BA:970:C:C5	2.85	0.64
24:BA:987:G:OP2	49:B2:13:ILE:HD13	1.97	0.64
25:BB:47:C:H2'	25:BB:48:A:H5'	1.78	0.64
25:BB:76:G:H5'	46:BY:85:HIS:CE1	2.33	0.64
25:BB:95:U:H2'	25:BB:96:G:H8	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:155:LEU:HG	27:BD:157:ARG:HE	1.57	0.64
27:BD:14:ARG:HB3	27:BD:15:PHE:CE1	2.33	0.64
27:BD:214:TRP:CH2	27:BD:219:PRO:HB3	2.32	0.64
28:BE:33:VAL:HG21	28:BE:77:ILE:HD11	1.79	0.64
30:BG:16:ARG:O	30:BG:17:PRO:C	2.34	0.64
30:BG:19:LEU:N	30:BG:19:LEU:HD12	2.13	0.64
30:BG:49:ASP:N	30:BG:53:LEU:HD13	2.13	0.64
32:BK:21:VAL:O	32:BK:22:LYS:O	2.16	0.64
33:BL:37:PHE:CE2	33:BL:65:PHE:HB2	2.33	0.64
34:BM:99:LEU:CD1	34:BM:100:GLU:N	2.60	0.64
35:BN:97:ARG:NE	35:BN:98:VAL:N	2.45	0.64
40:BS:54:ARG:H	40:BS:64:ARG:HB3	1.62	0.64
42:BU:5:VAL:HG12	42:BU:37:VAL:HG22	1.80	0.64
42:BU:62:LEU:HD13	42:BU:97:LYS:C	2.18	0.64
43:BV:34:ASN:HD22	43:BV:34:ASN:N	1.94	0.64
44:BW:43:VAL:HG12	44:BW:44:GLU:N	2.11	0.64
45:BX:47:LYS:HE2	45:BX:49:VAL:HG11	1.80	0.64
24:BA:2261:C:OP1	47:BZ:17:GLN:HB2	1.98	0.64
47:BZ:65:GLY:HA2	47:BZ:82:ARG:O	1.97	0.64
32:BK:76:THR:HG22	32:BK:141:LYS:HD2	1.80	0.64
32:BK:76:THR:CA	32:BK:141:LYS:HE2	2.27	0.64
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.31	0.64
1:AA:791:G:H21	1:AA:1497:G:H4'	1.63	0.64
1:AA:1506:U:N3	1:AA:1522:U:OP1	2.25	0.64
1:AA:130:A:H4'	1:AA:190:G:N3	2.12	0.64
1:AA:287:U:C2'	1:AA:287:U:O2	2.46	0.64
1:AA:723:U:H5	2:A1:30:U:O2'	1.77	0.64
1:AA:731:G:O2'	1:AA:732:C:H5'	1.97	0.64
1:AA:740:U:H2'	1:AA:741:G:H8	1.63	0.64
3:AC:21:A:N7	3:AC:46:G:O6	2.30	0.64
4:AE:163:PHE:CE1	4:AE:186:ALA:HA	2.32	0.64
5:AF:134:ILE:HD11	5:AF:153:VAL:HG11	1.79	0.64
5:AF:53:ALA:CB	5:AF:115:LEU:HD21	2.27	0.64
6:AG:108:LEU:O	6:AG:110:PHE:N	2.30	0.64
6:AG:170:VAL:CG2	6:AG:176:LEU:HB3	2.28	0.64
8:AI:4:TYR:CZ	8:AI:72:VAL:HG11	2.33	0.64
8:AI:7:ASN:CG	8:AI:62:TRP:HD1	2.01	0.64
9:AJ:69:VAL:HB	9:AJ:104:LEU:HD11	1.80	0.64
9:AJ:111:ARG:HB3	9:AJ:111:ARG:HH11	1.62	0.64
10:AK:126:LYS:HE3	10:AK:127:LEU:HB2	1.80	0.64
1:AA:707:C:H4'	13:AN:20:TYR:CD2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:79:SER:HA	13:AN:104:GLN:CG	2.28	0.64
20:AU:74:ARG:H	20:AU:74:ARG:HD2	1.62	0.64
20:AU:74:ARG:HA	20:AU:79:LEU:HD13	1.76	0.64
21:AV:11:VAL:O	21:AV:12:ASP:O	2.16	0.64
21:AV:40:ILE:HG12	21:AV:71:LEU:CD2	2.28	0.64
22:AW:55:ILE:O	22:AW:56:MET:C	2.37	0.64
48:B1:27:LEU:CG	48:B1:48:LEU:HB3	2.28	0.64
24:BA:1184:G:OP1	49:B2:30:ARG:NH1	2.30	0.64
50:B3:52:THR:CG2	50:B3:53:GLU:H	2.06	0.64
24:BA:686:G:OP1	53:B6:11:LYS:HE2	1.98	0.64
24:BA:469:G:H1	53:B6:40:TRP:HE1	1.43	0.64
24:BA:1067:A:C6	24:BA:1068:G:O6	2.51	0.64
24:BA:1081:U:C5'	33:BL:122:ALA:HA	2.27	0.64
24:BA:973:A:C1'	24:BA:1188:U:C4	2.81	0.64
24:BA:1204:A:OP2	24:BA:1204:A:C1'	2.46	0.64
24:BA:1252:G:O2'	41:BT:33:ARG:NE	2.25	0.64
24:BA:1464:C:C4'	24:BA:1528:A:H1'	2.27	0.64
24:BA:1684:C:H2'	24:BA:1685:C:C6	2.33	0.64
24:BA:2020:A:N7	24:BA:2022:U:C4	2.66	0.64
24:BA:2094:G:C2	24:BA:2196:C:C2	2.86	0.64
24:BA:221:A:H3'	24:BA:221:A:C8	2.33	0.64
24:BA:2231:C:C2	24:BA:2232:U:C5	2.86	0.64
24:BA:2398:U:H2'	24:BA:2399:G:H8	1.62	0.64
24:BA:2400:G:H2'	24:BA:2401:U:O4'	1.98	0.64
24:BA:2526:G:H2'	24:BA:2527:C:O5'	1.97	0.64
24:BA:2599:G:O2'	24:BA:2600:A:H5'	1.96	0.64
24:BA:2709:G:O2'	24:BA:2710:C:H5'	1.98	0.64
24:BA:2793:G:C6	24:BA:2794:C:N4	2.66	0.64
24:BA:1710:C:H4'	24:BA:2858:C:N3	2.12	0.64
24:BA:371:A:N7	24:BA:424:G:O5'	2.30	0.64
24:BA:77:C:H2'	24:BA:78:A:C8	2.32	0.64
24:BA:821:A:N6	24:BA:972:G:O2'	2.31	0.64
24:BA:941:A:C2	24:BA:942:G:C4	2.85	0.64
24:BA:955:C:C2'	24:BA:956:G:O5'	2.46	0.64
25:BB:81:G:C6	25:BB:96:G:C6	2.86	0.64
25:BB:95:U:H2'	25:BB:96:G:C8	2.32	0.64
27:BD:134:ARG:O	27:BD:168:ARG:NH2	2.30	0.64
27:BD:14:ARG:HB3	27:BD:15:PHE:CD1	2.33	0.64
27:BD:90:ALA:HB2	27:BD:159:ALA:CB	2.27	0.64
27:BD:233:HIS:ND1	27:BD:233:HIS:N	2.45	0.64
27:BD:10:THR:N	27:BD:23:GLU:OE2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:246:PRO:HD2	27:BD:250:TRP:C	2.18	0.64
27:BD:8:PRO:CD	27:BD:26:LYS:O	2.44	0.64
31:BH:153:LYS:N	31:BH:154:PRO:CD	2.57	0.64
31:BH:26:VAL:CG2	31:BH:75:ALA:HB1	2.27	0.64
31:BH:66:GLY:O	31:BH:69:ARG:CG	2.46	0.64
32:BK:15:VAL:HG12	32:BK:16:GLY:H	1.60	0.64
24:BA:1068:G:OP1	33:BL:21:PRO:HB2	1.97	0.64
34:BM:91:LEU:O	34:BM:93:THR:N	2.31	0.64
36:BO:52:GLU:O	36:BO:55:ARG:HB2	1.98	0.64
24:BA:2851:A:H1'	38:BQ:61:HIS:CD2	2.33	0.64
24:BA:2882:A:OP1	38:BQ:96:ARG:NE	2.31	0.64
39:BR:97:ARG:HG3	39:BR:97:ARG:HH21	1.63	0.64
41:BT:102:GLU:O	41:BT:105:VAL:N	2.30	0.64
41:BT:40:PHE:CD2	42:BU:84:LYS:HG2	2.33	0.64
42:BU:21:ARG:O	42:BU:22:VAL:O	2.15	0.64
42:BU:66:ARG:NE	42:BU:95:LEU:HD12	2.11	0.64
46:BY:152:ALA:O	46:BY:155:LEU:HB2	1.97	0.64
46:BY:4:ARG:HD3	46:BY:38:TYR:C	2.18	0.64
32:BK:69:LYS:O	32:BK:73:GLU:HG3	1.98	0.64
3:AD:8:U:OP1	3:AD:49:C:H5'	1.98	0.64
26:BC:41:VAL:HG13	26:BC:216:THR:HG22	1.80	0.64
1:AA:1376:U:H3	1:AA:1377:A:H62	1.45	0.64
1:AA:1064:G:OP1	1:AA:1386:G:C4'	2.46	0.64
1:AA:1392:G:O5'	1:AA:1392:G:H8	1.81	0.64
1:AA:254:G:H2'	1:AA:255:G:H8	1.63	0.64
1:AA:318:G:O2'	1:AA:1468:A:O2'	2.12	0.64
1:AA:362:G:O3'	14:AO:33:ARG:NH2	2.31	0.64
1:AA:529:G:N1	14:AO:49:ASN:HB3	2.10	0.64
1:AA:560:U:O4'	1:AA:566:G:N2	2.31	0.64
4:AE:115:LEU:HA	4:AE:118:LEU:HD12	1.80	0.64
6:AG:191:ARG:NH1	6:AG:192:GLU:HA	2.13	0.64
7:AH:62:ALA:O	7:AH:66:MET:SD	2.55	0.64
9:AJ:74:GLU:CG	9:AJ:75:VAL:N	2.61	0.64
10:AK:67:PRO:HD2	10:AK:77:GLU:H	1.62	0.64
10:AK:89:PRO:HB3	10:AK:92:ARG:HH21	1.63	0.64
13:AN:48:ILE:O	13:AN:49:GLY:C	2.36	0.64
15:AP:87:TYR:HB2	21:AV:73:GLU:O	1.98	0.64
19:AT:41:LYS:HG2	19:AT:42:TYR:N	2.11	0.64
19:AT:43:LEU:HD22	19:AT:44:ALA:O	1.97	0.64
20:AU:56:THR:O	20:AU:58:LEU:HG	1.97	0.64
51:B4:10:LYS:CD	51:B4:15:ARG:NH1	2.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:18:ALA:C	51:B4:21:SER:OG	2.36	0.64
53:B6:1:MET:O	53:B6:3:ARG:N	2.31	0.64
53:B6:34:ARG:HH22	53:B6:42:LEU:CG	2.11	0.64
54:B7:6:THR:O	54:B7:7:HIS:C	2.36	0.64
24:BA:1044:G:N7	24:BA:1112:G:N2	2.45	0.64
24:BA:1195:G:C2'	24:BA:1226:G:N2	2.61	0.64
24:BA:1264:G:C3'	24:BA:1265:A:C5'	2.75	0.64
24:BA:1326:U:H2'	24:BA:1327:C:C5'	2.25	0.64
24:BA:149:A:C6	24:BA:150:C:C4	2.86	0.64
24:BA:18:C:O5'	24:BA:18:C:H6	1.80	0.64
24:BA:1975:G:O2'	24:BA:1976:U:H5'	1.97	0.64
24:BA:2020:A:P	41:BT:27:LEU:HD13	2.38	0.64
24:BA:2371:G:C2	24:BA:2372:G:C5	2.86	0.64
24:BA:2419:U:H5'	52:B5:23:THR:CG2	2.27	0.64
24:BA:2682:U:H2'	24:BA:2683:C:O5'	1.98	0.64
24:BA:2701:C:C3'	24:BA:2702:U:H5''	2.10	0.64
24:BA:270:A:N1	24:BA:370:G:C1'	2.56	0.64
24:BA:2714:G:C6	24:BA:2715:C:C5	2.85	0.64
24:BA:421:U:OP2	24:BA:421:U:H6	1.80	0.64
24:BA:722:A:H2'	24:BA:723:G:C8	2.27	0.64
24:BA:881:G:C4	24:BA:882:G:C8	2.85	0.64
25:BB:74:U:H5''	25:BB:75:G:OP2	1.98	0.64
27:BD:134:ARG:C	27:BD:136:ILE:H	2.01	0.64
27:BD:148:GLU:O	27:BD:149:PRO:O	2.16	0.64
27:BD:261:LYS:O	27:BD:262:ARG:C	2.36	0.64
27:BD:63:ARG:HD2	27:BD:85:ASP:CB	2.28	0.64
30:BG:68:PRO:HG3	30:BG:72:ARG:NH1	2.11	0.64
30:BG:94:LEU:HG	30:BG:98:ARG:CZ	2.27	0.64
31:BH:149:ARG:HA	31:BH:162:ILE:CG2	2.28	0.64
32:BK:9:LEU:CD2	32:BK:17:GLN:HE22	2.10	0.64
33:BL:37:PHE:HE2	33:BL:65:PHE:HB2	1.63	0.64
34:BM:107:LEU:HD13	34:BM:117:PHE:CZ	2.33	0.64
24:BA:558:G:H5''	34:BM:109:LYS:HG2	1.79	0.64
34:BM:87:LEU:CA	34:BM:90:MET:HB2	2.28	0.64
36:BO:76:LYS:HZ2	36:BO:99:LEU:HD12	1.62	0.64
37:BP:27:VAL:CG1	37:BP:104:PHE:HE2	2.11	0.64
37:BP:42:ILE:HG12	37:BP:126:PRO:HG3	1.80	0.64
24:BA:535:C:C4'	41:BT:53:ARG:HD2	2.27	0.64
44:BW:49:VAL:C	44:BW:50:LYS:HD3	2.19	0.64
44:BW:7:VAL:HG11	48:B1:31:ARG:NH2	2.11	0.64
45:BX:57:GLN:O	45:BX:58:GLY:O	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:153:SER:CB	46:BY:168:GLU:HB2	2.27	0.64
47:BZ:23:VAL:CA	47:BZ:38:VAL:HG13	2.27	0.64
32:BK:125:GLU:O	32:BK:126:TYR:CD1	2.51	0.64
26:BC:47:LEU:HD23	26:BC:47:LEU:H	1.62	0.64
26:BC:59:ARG:HD3	26:BC:164:ARG:CG	2.28	0.64
24:BA:1511:A:C2'	24:BA:1512:G:H5''	2.28	0.64
33:BL:14:ALA:HB1	33:BL:45:THR:HB	1.80	0.64
32:BK:135:GLU:N	32:BK:135:GLU:CD	2.51	0.64
2:A1:35:U:O3'	2:A1:36:U:O4'	2.16	0.64
1:AA:1005:A:H1'	1:AA:1036:G:N2	2.12	0.64
1:AA:1084:G:C4	1:AA:1085:U:C5	2.80	0.64
1:AA:1274:G:N2	1:AA:1275:A:N6	2.46	0.64
1:AA:127:G:C2'	1:AA:128:G:H5'	2.28	0.64
1:AA:1310:G:H3'	21:AV:2:PRO:CD	2.21	0.64
1:AA:1519:A:C2'	1:AA:1520:G:H5'	2.27	0.64
1:AA:50:A:C2	1:AA:360:A:N3	2.65	0.64
1:AA:687:A:O2'	1:AA:688:G:P	2.56	0.64
1:AA:80:G:N3	1:AA:81:G:H1'	2.13	0.64
1:AA:967:C:C6	1:AA:967:C:O5'	2.50	0.64
1:AA:981:U:O5'	1:AA:981:U:C6	2.51	0.64
4:AE:169:LYS:HE2	4:AE:170:GLU:N	2.13	0.64
4:AE:175:ARG:HA	4:AE:178:ARG:HB2	1.80	0.64
4:AE:76:GLN:O	4:AE:77:ALA:HB2	1.98	0.64
5:AF:157:ILE:HG13	5:AF:164:ARG:HG2	1.80	0.64
5:AF:8:ILE:CG1	5:AF:16:ARG:HD2	2.28	0.64
11:AL:113:LYS:HD2	11:AL:113:LYS:N	2.13	0.64
11:AL:113:LYS:NZ	11:AL:119:ALA:HB1	2.13	0.64
14:AO:117:ARG:NH2	14:AO:124:LYS:HG3	2.13	0.64
15:AP:14:ARG:HB3	15:AP:44:ARG:HD2	1.79	0.64
5:AF:29:TYR:HB3	16:AQ:36:PHE:HE1	1.63	0.64
17:AR:65:ARG:O	17:AR:68:ARG:CB	2.45	0.64
49:B2:23:LEU:HA	49:B2:28:LEU:CD1	2.27	0.64
52:B5:25:LYS:O	52:B5:26:ASN:CB	2.44	0.64
24:BA:1056:G:H21	24:BA:1104:C:N4	1.96	0.64
24:BA:1165:U:H2'	24:BA:1166:C:C5	2.33	0.64
24:BA:1306:C:C2	24:BA:1307:A:C8	2.86	0.64
24:BA:1491:G:N1	24:BA:1493:C:N4	2.43	0.64
24:BA:1538:G:O2'	24:BA:1539:G:H5'	1.98	0.64
24:BA:1878:G:H2'	24:BA:1879:C:C6	2.33	0.64
24:BA:2025:C:C2'	24:BA:2026:C:C6	2.76	0.64
24:BA:2033:A:O2'	24:BA:2034:U:OP1	2.16	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2329:G:H2'	24:BA:2330:G:C8	2.33	0.64
24:BA:2532:G:O2'	24:BA:2533:A:H5'	1.98	0.64
24:BA:2733:A:C2'	24:BA:2734:A:O5'	2.44	0.64
24:BA:283:A:O2'	24:BA:284:U:H5'	1.98	0.64
24:BA:391:G:H2'	24:BA:392:C:C5	2.32	0.64
24:BA:516:C:O5'	24:BA:516:C:H6	1.80	0.64
24:BA:638:G:H3'	24:BA:638:G:C8	2.33	0.64
24:BA:684:G:C6	24:BA:775:G:N7	2.66	0.64
24:BA:83:G:H1	24:BA:102:G:HO2'	1.46	0.64
25:BB:30:C:O4'	25:BB:58:A:H2	1.81	0.64
24:BA:1820:U:C5	27:BD:159:ALA:HB3	2.32	0.64
27:BD:214:TRP:O	27:BD:217:ARG:N	2.31	0.64
30:BG:126:ASP:HA	30:BG:166:ASP:CG	2.18	0.64
30:BG:16:ARG:HD2	30:BG:20:ILE:CG1	2.25	0.64
30:BG:53:LEU:CD2	30:BG:71:THR:N	2.61	0.64
30:BG:75:LYS:HZ3	30:BG:85:GLY:HA3	1.63	0.64
33:BL:10:LEU:HD12	33:BL:23:VAL:CG2	2.28	0.64
34:BM:2:LYS:N	41:BT:61:TRP:CZ2	2.66	0.64
34:BM:72:TYR:C	34:BM:72:TYR:CD2	2.71	0.64
24:BA:1131:G:C4	34:BM:74:ARG:NE	2.66	0.64
34:BM:87:LEU:O	34:BM:91:LEU:HD21	1.97	0.64
37:BP:34:LEU:CD1	37:BP:105:GLU:HB2	2.27	0.64
37:BP:32:TYR:HE2	37:BP:108:GLY:H	1.45	0.64
37:BP:66:ILE:C	37:BP:67:ARG:HG2	2.19	0.64
24:BA:1650:G:H5'	38:BQ:104:ARG:HH21	1.63	0.64
38:BQ:17:ARG:CG	38:BQ:18:LEU:N	2.60	0.64
38:BQ:44:LEU:HD13	38:BQ:48:VAL:HG21	1.80	0.64
38:BQ:75:LEU:CD2	38:BQ:78:LYS:HG2	2.28	0.64
34:BM:4:TYR:CB	41:BT:64:ARG:NH1	2.60	0.64
45:BX:47:LYS:CB	45:BX:49:VAL:HG13	2.28	0.64
46:BY:18:LEU:HD22	46:BY:23:LYS:CG	2.28	0.64
46:BY:76:LEU:HD23	46:BY:83:PRO:HB3	1.80	0.64
47:BZ:21:LEU:O	47:BZ:24:LYS:HE3	1.98	0.64
47:BZ:31:VAL:CG2	47:BZ:65:GLY:O	2.45	0.64
32:BK:76:THR:HA	32:BK:141:LYS:HE2	1.80	0.64
26:BC:131:LEU:HD22	26:BC:136:LEU:O	1.98	0.64
26:BC:26:ALA:O	26:BC:30:LYS:HG3	1.98	0.64
3:AB:72:C:N4	3:AB:73:A:H62	1.95	0.64
32:BK:133:HIS:ND1	32:BK:134:PRO:HD2	2.13	0.64
1:AA:1346:A:H8	1:AA:1348:U:C2	2.16	0.63
1:AA:922:G:O2'	1:AA:1398:A:N1	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:184:G:C4'	1:AA:224:C:H4'	2.28	0.63
1:AA:236:G:C4	1:AA:237:C:C5	2.86	0.63
1:AA:378:G:H2'	1:AA:379:C:C6	2.33	0.63
1:AA:936:C:H2'	1:AA:937:A:O4'	1.97	0.63
1:AA:966:G:H2'	1:AA:967:C:C6	2.33	0.63
1:AA:981:U:H6	1:AA:981:U:H3'	1.61	0.63
3:AC:74:C:H2'	3:AC:75:C:C5'	2.28	0.63
4:AE:155:LEU:HB3	4:AE:159:PRO:HG3	1.79	0.63
4:AE:175:ARG:HA	4:AE:178:ARG:HG3	1.80	0.63
4:AE:64:ARG:H	4:AE:64:ARG:HD2	1.63	0.63
1:AA:1206:G:H4'	5:AF:192:THR:C	2.19	0.63
5:AF:191:THR:O	5:AF:193:TYR:N	2.31	0.63
6:AG:199:ASN:CG	6:AG:200:GLU:H	1.99	0.63
5:AF:131:ARG:HH12	7:AH:51:VAL:HG23	1.62	0.63
8:AI:60:PHE:CD1	8:AI:60:PHE:N	2.66	0.63
9:AJ:143:ARG:CD	9:AJ:144:MET:H	2.11	0.63
9:AJ:69:VAL:HG11	9:AJ:104:LEU:CD2	2.27	0.63
10:AK:102:ARG:CB	10:AK:102:ARG:CZ	2.69	0.63
12:AM:49:VAL:O	12:AM:60:ARG:HB3	1.98	0.63
14:AO:83:VAL:HA	14:AO:104:VAL:O	1.98	0.63
15:AP:49:THR:HB	15:AP:52:GLU:OE1	1.97	0.63
22:AW:85:MET:HA	22:AW:88:VAL:CG2	2.28	0.63
1:AA:1243:C:OP1	23:AX:10:ARG:HD2	1.98	0.63
24:BA:931:G:N3	49:B2:24:LYS:HE3	2.12	0.63
50:B3:47:GLN:HA	50:B3:52:THR:OG1	1.99	0.63
24:BA:1005:C:C1'	24:BA:1012:U:O2	2.46	0.63
24:BA:1022:G:H3'	24:BA:1025:G:O6	1.97	0.63
24:BA:1023:U:P	24:BA:1025:G:H1	2.19	0.63
24:BA:105:C:C2	24:BA:106:C:H5	2.16	0.63
24:BA:942:G:O2'	24:BA:1189:A:N3	2.29	0.63
24:BA:1202:C:C6	24:BA:1203:G:C1'	2.71	0.63
24:BA:1273:U:H5''	24:BA:1646:C:N4	2.13	0.63
24:BA:1717:G:C2	24:BA:1718:G:N3	2.66	0.63
24:BA:1858:G:O6	24:BA:1883:G:C6	2.51	0.63
24:BA:2216:G:H21	27:BD:150:LYS:HZ3	1.45	0.63
24:BA:2226:C:C2'	24:BA:2226:C:O2	2.47	0.63
24:BA:2273:A:N7	24:BA:2274:A:N9	2.46	0.63
24:BA:2282:G:H5''	24:BA:2283:C:O5'	1.98	0.63
24:BA:231:C:C4	24:BA:232:G:N2	2.66	0.63
24:BA:241:A:H2'	24:BA:242:G:H4'	1.79	0.63
24:BA:826:U:H5''	24:BA:2429:G:P	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2491:U:C6	24:BA:2492:U:P	2.90	0.63
24:BA:2250:G:O2'	24:BA:2496:C:H5'	1.98	0.63
24:BA:2531:A:N3	24:BA:2658:C:O2'	2.22	0.63
24:BA:2700:C:C3'	24:BA:2701:C:H5''	2.28	0.63
24:BA:2746:U:O4	24:BA:2756:U:H5	1.77	0.63
24:BA:324:A:C8	24:BA:340:A:H1'	2.33	0.63
24:BA:556:G:H8	24:BA:556:G:O5'	1.82	0.63
24:BA:885:C:C5	24:BA:887:A:H1'	2.34	0.63
25:BB:14:U:H1'	25:BB:107:U:H1'	1.78	0.63
25:BB:8:U:C2	25:BB:9:G:C8	2.86	0.63
25:BB:90:C:O2'	25:BB:91:C:H5'	1.97	0.63
27:BD:135:PHE:O	27:BD:137:PRO:HD3	1.98	0.63
27:BD:159:ALA:HB3	27:BD:202:LYS:NZ	2.12	0.63
27:BD:57:GLY:C	27:BD:58:HIS:ND1	2.51	0.63
28:BE:102:VAL:HG22	28:BE:103:ASP:N	2.12	0.63
28:BE:41:LYS:N	28:BE:41:LYS:HE3	2.12	0.63
30:BG:130:ASN:O	30:BG:159:VAL:O	2.16	0.63
30:BG:181:ARG:HH21	30:BG:181:ARG:H	1.44	0.63
30:BG:38:VAL:HG12	30:BG:93:THR:HA	1.79	0.63
31:BH:89:ILE:O	31:BH:129:THR:O	2.16	0.63
34:BM:12:ARG:HB3	34:BM:12:ARG:CZ	2.26	0.63
35:BN:70:LYS:HB3	35:BN:72:PRO:HD2	1.78	0.63
36:BO:114:ILE:N	36:BO:114:ILE:HD13	2.13	0.63
37:BP:36:ALA:O	37:BP:37:LEU:CG	2.47	0.63
38:BQ:98:LEU:HD23	38:BQ:99:LYS:HZ2	1.62	0.63
39:BR:64:GLU:O	39:BR:65:VAL:C	2.36	0.63
40:BS:49:VAL:C	40:BS:50:ILE:HG12	2.17	0.63
35:BN:121:VAL:C	40:BS:70:VAL:O	2.36	0.63
24:BA:563:G:N2	41:BT:34:LYS:CE	2.60	0.63
24:BA:2018:G:N3	41:BT:34:LYS:NZ	2.47	0.63
41:BT:44:ASN:O	41:BT:47:TYR:CB	2.27	0.63
43:BV:6:ILE:HA	43:BV:103:ILE:O	1.98	0.63
44:BW:39:ILE:HB	44:BW:54:VAL:HG11	1.78	0.63
46:BY:100:VAL:CG2	46:BY:137:ILE:HD12	2.20	0.63
46:BY:141:VAL:CG1	46:BY:142:SER:H	2.10	0.63
46:BY:46:LYS:O	46:BY:49:ARG:HB3	1.97	0.63
46:BY:48:PHE:HD2	46:BY:54:HIS:NE2	1.92	0.63
24:BA:2160:G:H2'	24:BA:2161:C:H6	1.60	0.63
26:BC:130:ILE:N	26:BC:130:ILE:CD1	2.61	0.63
26:BC:41:VAL:CG2	26:BC:216:THR:HG22	2.26	0.63
33:BL:98:ARG:HB3	33:BL:139:VAL:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:67:GLU:OE2	9:AJ:67:GLU:HA	1.97	0.63
1:AA:1003:G:C4	1:AA:1004:A:H1'	2.32	0.63
1:AA:1079:G:C2	1:AA:1080:A:N1	2.65	0.63
1:AA:301:G:N2	1:AA:302:G:C1'	2.61	0.63
1:AA:307:C:N4	1:AA:308:C:C5	2.66	0.63
1:AA:493:G:H2'	1:AA:494:U:H5	1.63	0.63
1:AA:620:C:O2'	1:AA:621:A:H5'	1.98	0.63
1:AA:627:G:H2'	1:AA:628:G:H8	1.63	0.63
1:AA:611:A:N6	1:AA:629:G:N1	2.25	0.63
1:AA:640:A:O2'	1:AA:641:U:H5'	1.98	0.63
1:AA:701:C:H5''	1:AA:702:A:H3'	1.79	0.63
1:AA:585:G:N3	1:AA:879:C:H4'	2.13	0.63
1:AA:907:A:OP1	1:AA:907:A:H4'	1.98	0.63
1:AA:978:A:H8	1:AA:980:C:H41	1.45	0.63
4:AE:97:TRP:NE1	4:AE:101:MET:SD	2.72	0.63
8:AI:14:LEU:HD13	8:AI:15:ASP:N	2.13	0.63
8:AI:45:LEU:HG	8:AI:59:TYR:CD1	2.34	0.63
11:AL:19:LEU:HD23	11:AL:20:ARG:N	2.12	0.63
13:AN:23:ALA:HB1	13:AN:28:THR:OG1	1.99	0.63
14:AO:32:PHE:HB2	14:AO:84:LEU:HD21	1.80	0.63
14:AO:53:ARG:CZ	14:AO:93:LEU:HD22	2.28	0.63
14:AO:93:LEU:N	14:AO:93:LEU:HD23	2.11	0.63
5:AF:12:LEU:HD21	16:AQ:58:LYS:N	2.13	0.63
1:AA:581:G:H4'	17:AR:64:ARG:NH1	2.13	0.63
18:AS:27:LYS:NZ	18:AS:27:LYS:H	1.96	0.63
18:AS:14:ASN:HA	18:AS:42:ARG:NH1	2.13	0.63
21:AV:18:LYS:CA	21:AV:18:LYS:HE3	2.20	0.63
50:B3:52:THR:O	50:B3:53:GLU:HB2	1.98	0.63
53:B6:22:MET:HA	53:B6:28:ARG:HG2	1.80	0.63
53:B6:43:THR:HG23	53:B6:46:VAL:CB	2.28	0.63
54:B7:52:LYS:O	54:B7:54:GLU:N	2.28	0.63
24:BA:10:G:C2	24:BA:2629:A:C2	2.86	0.63
24:BA:1323:U:O2'	24:BA:1324:G:OP1	2.15	0.63
24:BA:1335:U:OP2	44:BW:65:ARG:NE	2.31	0.63
24:BA:1336:A:H2'	24:BA:1337:G:C8	2.33	0.63
24:BA:1359:A:N1	24:BA:1360:A:C4	2.67	0.63
24:BA:1459:G:O6	24:BA:1461:G:C2	2.51	0.63
24:BA:1518:C:H2'	24:BA:1519:G:H4'	1.79	0.63
24:BA:1529:A:H3'	24:BA:1530:G:H8	1.62	0.63
24:BA:1665:A:O2'	35:BN:1:MET:HG3	1.98	0.63
24:BA:1670:C:O5'	24:BA:1671:U:H5	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1859:A:C8	24:BA:1860:G:C8	2.85	0.63
24:BA:1904:G:H2'	24:BA:1905:C:O5'	1.98	0.63
24:BA:223:A:C5	24:BA:408:G:H1'	2.33	0.63
24:BA:2376:A:N3	24:BA:2377:A:H1'	2.13	0.63
24:BA:247:G:N2	24:BA:249:C:O2'	2.31	0.63
24:BA:2542:A:O2'	24:BA:2543:G:H5'	1.99	0.63
24:BA:2644:G:O5'	24:BA:2644:G:C8	2.48	0.63
24:BA:2749:A:H5'	31:BH:62:LYS:C	2.18	0.63
24:BA:2772:C:C2	24:BA:2773:C:C5	2.86	0.63
24:BA:64:A:O5'	24:BA:64:A:H8	1.82	0.63
24:BA:651:G:H2'	24:BA:652:C:O4'	1.98	0.63
24:BA:720:C:H2'	24:BA:721:C:C6	2.33	0.63
24:BA:792:G:H21	24:BA:2072:G:C1'	2.10	0.63
24:BA:910:A:N6	24:BA:911:A:N6	2.45	0.63
27:BD:107:ALA:H	27:BD:108:PRO:CD	2.10	0.63
27:BD:206:LEU:N	27:BD:206:LEU:CD1	2.59	0.63
24:BA:1790:C:O2'	27:BD:213:ARG:NH2	2.32	0.63
27:BD:50:THR:C	27:BD:51:VAL:HG22	2.19	0.63
27:BD:57:GLY:H	27:BD:217:ARG:CD	2.08	0.63
27:BD:62:TYR:CD1	27:BD:62:TYR:N	2.63	0.63
28:BE:179:GLU:O	28:BE:181:LEU:N	2.31	0.63
29:BF:65:TRP:CD2	29:BF:66:PRO:HD2	2.33	0.63
29:BF:7:TYR:CD2	29:BF:119:ARG:HB3	2.33	0.63
24:BA:1257:C:HO2'	29:BF:83:PHE:HD1	1.46	0.63
30:BG:60:LEU:HD21	30:BG:90:LEU:CD1	2.24	0.63
30:BG:53:LEU:CD2	30:BG:71:THR:H	2.08	0.63
31:BH:169:VAL:O	31:BH:169:VAL:HG23	1.97	0.63
32:BK:9:LEU:HA	32:BK:17:GLN:CD	2.19	0.63
33:BL:112:MET:O	33:BL:115:LEU:HB3	1.99	0.63
33:BL:40:ALA:O	33:BL:43:ALA:HB3	1.98	0.63
35:BN:90:GLN:NE2	35:BN:110:GLY:O	2.31	0.63
38:BQ:63:ARG:NH1	38:BQ:80:PHE:CD2	2.67	0.63
39:BR:11:LYS:HB3	39:BR:15:ARG:NH2	2.12	0.63
40:BS:53:ARG:HH22	40:BS:102:ILE:N	1.95	0.63
41:BT:102:GLU:O	41:BT:105:VAL:CG1	2.44	0.63
41:BT:19:LYS:HB2	41:BT:19:LYS:HZ2	1.63	0.63
42:BU:5:VAL:CG1	42:BU:38:LEU:O	2.46	0.63
43:BV:48:ALA:HA	43:BV:51:LEU:CD2	2.26	0.63
43:BV:5:ALA:HB2	43:BV:54:ALA:CB	2.22	0.63
43:BV:74:ALA:HB1	43:BV:105:VAL:CG2	2.28	0.63
45:BX:108:THR:HG22	45:BX:109:GLU:OE1	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:29:TYR:O	46:BY:89:PHE:HA	1.99	0.63
46:BY:63:ASP:CG	46:BY:64:GLY:N	2.51	0.63
3:AD:19:G:H21	3:AD:57:G:C1'	2.08	0.63
3:AD:59:U:O2	3:AD:59:U:H2'	1.97	0.63
24:BA:2128:C:H5''	26:BC:218:MET:CE	2.28	0.63
24:BA:2150:U:H2'	24:BA:2151:G:H8	1.63	0.63
26:BC:102:LYS:NZ	26:BC:107:TRP:HB2	2.14	0.63
26:BC:111:ASP:O	26:BC:136:LEU:HD23	1.99	0.63
26:BC:41:VAL:HA	26:BC:216:THR:HA	1.80	0.63
30:BG:51:ARG:HH21	30:BG:51:ARG:N	1.96	0.63
1:AA:1004:A:O2'	1:AA:1005:A:O5'	2.16	0.63
1:AA:1252:A:C6	1:AA:1253:G:N7	2.65	0.63
1:AA:927:G:H4'	1:AA:1503:A:N7	2.13	0.63
1:AA:236:G:H2'	1:AA:236:G:N3	2.12	0.63
1:AA:54:C:N4	1:AA:352:C:H2'	2.14	0.63
1:AA:494:U:H2'	1:AA:494:U:O2	1.97	0.63
1:AA:569:C:H1'	1:AA:574:A:C2	2.33	0.63
1:AA:817:C:O2'	1:AA:818:G:O5'	2.15	0.63
1:AA:961:U:C5	1:AA:983:A:N6	2.66	0.63
3:AB:31:A:H2'	3:AB:32:U:H5'	1.81	0.63
5:AF:152:ILE:HG22	5:AF:167:TRP:HB3	1.81	0.63
5:AF:57:ILE:HG22	5:AF:59:ARG:HH21	1.63	0.63
6:AG:14:ARG:C	6:AG:14:ARG:HD3	2.18	0.63
7:AH:9:LYS:CG	7:AH:112:LEU:HG	2.27	0.63
9:AJ:29:LYS:CD	9:AJ:101:LEU:HD22	2.28	0.63
9:AJ:113:GLU:CB	9:AJ:118:VAL:HG11	2.29	0.63
9:AJ:44:TYR:O	9:AJ:47:CYS:N	2.32	0.63
10:AK:40:ALA:HA	10:AK:45:ILE:HG23	1.81	0.63
12:AM:8:LEU:HD22	12:AM:94:VAL:HG12	1.80	0.63
13:AN:62:GLN:O	13:AN:65:ALA:HB3	1.98	0.63
13:AN:75:TYR:O	13:AN:77:MET:N	2.30	0.63
1:AA:363:A:C8	14:AO:31:PRO:HD2	2.33	0.63
19:AT:78:GLU:HG2	19:AT:81:ARG:HB2	1.80	0.63
20:AU:66:LEU:CD1	20:AU:67:ALA:N	2.52	0.63
21:AV:36:ARG:HA	21:AV:71:LEU:HD12	1.80	0.63
21:AV:5:LEU:HB2	21:AV:9:VAL:CG2	2.11	0.63
48:B1:50:ARG:O	48:B1:53:ALA:HB3	1.98	0.63
49:B2:31:LEU:O	49:B2:31:LEU:HD13	1.99	0.63
50:B3:42:PHE:N	50:B3:58:ARG:HH11	1.95	0.63
24:BA:2286:A:OP2	52:B5:27:LYS:HE2	1.97	0.63
54:B7:39:LYS:HA	54:B7:42:ARG:HD3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1001:A:N7	24:BA:1002:G:C4	2.66	0.63
24:BA:85:G:N3	24:BA:103:A:C2	2.65	0.63
24:BA:1069:A:H2'	24:BA:1074:G:O6	1.98	0.63
24:BA:1155:A:C2'	24:BA:1156:A:C5'	2.75	0.63
24:BA:119:A:H4'	24:BA:120:U:H5'	1.80	0.63
24:BA:49:A:H2	24:BA:120:U:H3	1.43	0.63
24:BA:1296:G:H2'	24:BA:1297:C:H6	1.62	0.63
24:BA:1475:G:N3	24:BA:1475:G:H2'	2.11	0.63
24:BA:1546:C:H4'	24:BA:1547:C:C5	2.33	0.63
24:BA:1695:G:H1'	27:BD:15:PHE:HB3	1.80	0.63
24:BA:1801:G:N7	24:BA:2207:C:O2'	2.31	0.63
24:BA:2404:C:C2	24:BA:2414:G:N2	2.65	0.63
24:BA:2459:A:OP2	24:BA:2460:U:C5	2.51	0.63
24:BA:2553:G:N2	24:BA:2554:U:C2'	2.61	0.63
24:BA:461:C:O2	24:BA:461:C:H2'	1.99	0.63
24:BA:638:G:H2'	24:BA:639:U:H5'	1.81	0.63
24:BA:703:U:H3'	24:BA:704:G:C8	2.32	0.63
24:BA:806:C:O5'	24:BA:806:C:H6	1.81	0.63
24:BA:997:G:H2'	24:BA:998:C:C5	2.32	0.63
27:BD:175:LEU:O	27:BD:175:LEU:HD13	1.98	0.63
27:BD:232:PRO:HG2	27:BD:246:PRO:C	2.18	0.63
27:BD:246:PRO:HG2	27:BD:251:GLY:O	1.98	0.63
27:BD:7:LYS:HZ2	27:BD:91:ARG:HD2	1.62	0.63
28:BE:38:THR:HG1	28:BE:44:TYR:HB2	1.64	0.63
28:BE:58:ARG:NH2	28:BE:73:GLU:OE2	2.32	0.63
29:BF:106:ARG:HB2	29:BF:106:ARG:HH21	1.63	0.63
30:BG:114:ILE:HD12	30:BG:115:ARG:N	2.13	0.63
30:BG:131:TYR:CG	30:BG:158:ALA:HA	2.32	0.63
30:BG:9:ARG:HG2	30:BG:13:GLU:CD	2.19	0.63
30:BG:19:LEU:HG	30:BG:22:ARG:NH2	2.13	0.63
31:BH:60:ARG:HG2	31:BH:64:LEU:CD1	2.27	0.63
32:BK:15:VAL:CG1	32:BK:16:GLY:N	2.61	0.63
32:BK:26:ALA:HA	32:BK:30:LEU:HD23	1.81	0.63
24:BA:1059:G:O4'	33:BL:116:ASN:ND2	2.31	0.63
33:BL:35:MET:SD	33:BL:39:LYS:HG3	2.38	0.63
34:BM:89:LYS:HA	34:BM:92:ALA:HB3	1.79	0.63
34:BM:93:THR:O	34:BM:94:HIS:HD2	1.81	0.63
36:BO:80:TYR:CZ	36:BO:85:LEU:HD22	2.34	0.63
36:BO:91:PHE:CE2	36:BO:96:THR:HG22	2.32	0.63
37:BP:134:ARG:HG3	37:BP:134:ARG:HH11	1.63	0.63
37:BP:43:THR:CG2	37:BP:46:GLN:HB2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:22:ARG:HG2	38:BQ:70:LEU:HD22	1.78	0.63
38:BQ:39:PRO:O	38:BQ:40:LYS:C	2.36	0.63
38:BQ:53:HIS:HA	38:BQ:56:LYS:HD3	1.80	0.63
39:BR:23:ARG:HH11	39:BR:42:ASP:H	1.46	0.63
40:BS:28:VAL:HG12	40:BS:30:VAL:HG12	1.81	0.63
42:BU:38:LEU:H	42:BU:38:LEU:HD23	1.63	0.63
42:BU:3:ALA:HB2	42:BU:44:LYS:CD	2.28	0.63
25:BB:75:G:H21	46:BY:27:VAL:CG2	2.10	0.63
47:BZ:59:LEU:HD22	47:BZ:79:VAL:HG21	1.81	0.63
47:BZ:65:GLY:CA	47:BZ:81:VAL:HG12	2.25	0.63
24:BA:2115:G:O2'	24:BA:2117:A:N6	2.27	0.63
26:BC:30:LYS:HZ1	26:BC:182:PRO:HD3	1.58	0.63
26:BC:189:ILE:HD13	26:BC:224:ILE:CD1	2.28	0.63
26:BC:45:ALA:HB1	26:BC:211:SER:O	1.98	0.63
1:AA:489:C:O2'	1:AA:490:G:H5'	1.98	0.63
1:AA:1520:G:C2'	1:AA:1521:G:H8	2.11	0.63
1:AA:185:A:H2'	1:AA:186:C:H6	1.61	0.63
1:AA:50:A:C6	1:AA:361:G:H4'	2.33	0.63
1:AA:372:C:N4	1:AA:389:A:H62	1.95	0.63
1:AA:218:C:H5'	1:AA:466:C:H41	1.64	0.63
1:AA:481:G:H5'	1:AA:482:A:OP1	1.97	0.63
1:AA:581:G:H2'	1:AA:582:U:OP2	1.98	0.63
3:AC:74:C:C3'	3:AC:75:C:H5"	2.29	0.63
4:AE:25:ASN:O	4:AE:27:LYS:N	2.31	0.63
4:AE:87:ARG:O	4:AE:89:GLY:N	2.32	0.63
5:AF:172:ARG:CZ	5:AF:172:ARG:HB3	2.27	0.63
6:AG:154:ASN:HD22	6:AG:155:LEU:HD22	1.62	0.63
1:AA:736:C:H4'	8:AI:89:MET:SD	2.38	0.63
9:AJ:42:ILE:CG2	9:AJ:120:ILE:HD11	2.29	0.63
9:AJ:72:ARG:HH22	9:AJ:138:LYS:NZ	1.96	0.63
13:AN:91:ARG:CG	13:AN:95:ILE:HD11	2.29	0.63
16:AQ:16:PHE:O	16:AQ:18:VAL:N	2.32	0.63
18:AS:35:LYS:O	18:AS:36:ILE:HG23	1.98	0.63
19:AT:3:LYS:HD3	19:AT:61:GLU:O	1.97	0.63
24:BA:852:G:C5'	49:B2:45:GLY:HA3	2.27	0.63
51:B4:48:GLU:CA	51:B4:58:LEU:HG	2.29	0.63
53:B6:31:LEU:C	53:B6:35:ARG:HD3	2.18	0.63
24:BA:1214:A:H62	24:BA:1236:G:N2	1.96	0.63
24:BA:1242:A:OP1	24:BA:1242:A:O4'	2.16	0.63
24:BA:1290:C:H2'	24:BA:1291:C:H6	1.62	0.63
24:BA:1310:G:N7	24:BA:1311:G:N2	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1572:A:OP1	24:BA:1572:A:O4'	2.16	0.63
24:BA:1826:G:O5'	24:BA:1826:G:H8	1.81	0.63
1:AA:784:C:H4'	24:BA:1837:C:OP1	1.98	0.63
24:BA:2098:U:H2'	24:BA:2099:U:C6	2.34	0.63
24:BA:2320:A:H1'	24:BA:2333:A:C6	2.33	0.63
24:BA:2439:A:H4'	24:BA:2440:C:O5'	1.99	0.63
24:BA:2456:C:HO2'	24:BA:2457:U:H5'	1.63	0.63
24:BA:2460:U:H2'	24:BA:2461:C:C6	2.33	0.63
24:BA:242:G:H2'	24:BA:254:G:N1	2.13	0.63
24:BA:2516:G:O6	24:BA:2567:G:O6	2.15	0.63
24:BA:2709:G:H2'	24:BA:2710:C:H5'	1.80	0.63
24:BA:364:C:C2	24:BA:365:C:C4	2.86	0.63
24:BA:399:G:C5	24:BA:400:G:H1'	2.33	0.63
24:BA:442:G:H4'	29:BF:46:ARG:CG	2.26	0.63
24:BA:35:G:C4	24:BA:454:A:C2	2.86	0.63
24:BA:531:C:C5'	24:BA:532:A:C2	2.82	0.63
24:BA:930:U:O2'	24:BA:931:G:P	2.55	0.63
24:BA:996:A:O3'	41:BT:93:LYS:HG2	1.98	0.63
24:BA:997:G:C5'	41:BT:92:ARG:NH1	2.54	0.63
24:BA:9:U:O2	24:BA:9:U:H2'	1.97	0.63
25:BB:6:C:H4'	25:BB:28:C:H5'	1.81	0.63
25:BB:71:C:H2'	25:BB:72:G:C4'	2.28	0.63
27:BD:39:LYS:HD2	27:BD:39:LYS:N	2.13	0.63
28:BE:59:VAL:HB	28:BE:62:PRO:CD	2.28	0.63
28:BE:98:PRO:HA	28:BE:172:VAL:HG23	1.79	0.63
29:BF:176:LEU:C	29:BF:178:PRO:HD2	2.19	0.63
29:BF:4:VAL:C	29:BF:20:LEU:HD12	2.14	0.63
31:BH:107:VAL:HG13	31:BH:152:ARG:NE	2.12	0.63
33:BL:12:LEU:CB	33:BL:13:PRO:HD2	2.29	0.63
24:BA:1131:G:O4'	34:BM:82:LEU:HD11	1.99	0.63
35:BN:108:GLU:HB3	35:BN:111:PHE:CE2	2.33	0.63
36:BO:74:GLU:CB	36:BO:107:LYS:HZ2	2.11	0.63
36:BO:111:ARG:HH22	36:BO:113:LYS:HB2	1.63	0.63
24:BA:811:U:C4	36:BO:23:PRO:HD3	2.33	0.63
37:BP:67:ARG:NH2	37:BP:103:MET:HB3	2.10	0.63
37:BP:122:GLY:O	37:BP:123:HIS:C	2.37	0.63
37:BP:44:ALA:HB2	37:BP:93:TYR:O	1.98	0.63
38:BQ:40:LYS:O	38:BQ:44:LEU:HB2	1.99	0.63
39:BR:78:LEU:HG	39:BR:111:GLU:OE2	1.97	0.63
40:BS:65:LYS:CD	40:BS:75:ILE:HD13	2.28	0.63
41:BT:111:GLU:CA	41:BT:114:LYS:HE3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:92:ARG:HA	41:BT:95:LEU:CG	2.28	0.63
42:BU:35:LEU:HG	42:BU:36:PRO:CD	2.29	0.63
44:BW:50:LYS:HG3	44:BW:85:PRO:HD3	1.81	0.63
45:BX:39:VAL:O	45:BX:40:GLU:HB2	1.98	0.63
45:BX:76:CYS:CB	45:BX:100:ALA:HB3	2.29	0.63
24:BA:2132:U:C3'	24:BA:2133:G:H5'	2.27	0.63
26:BC:10:LEU:HD12	26:BC:13:LYS:HD2	1.79	0.63
26:BC:29:VAL:HG21	26:BC:41:VAL:HG11	1.80	0.63
26:BC:64:LEU:HD13	26:BC:188:ASN:ND2	2.13	0.63
26:BC:90:GLY:HA3	26:BC:157:LYS:CB	2.29	0.63
22:AW:8:ARG:HH11	22:AW:8:ARG:HB3	1.63	0.63
1:AA:1003:G:O5'	1:AA:1003:G:H8	1.81	0.63
1:AA:1039:C:N4	1:AA:1040:U:O4	2.31	0.63
1:AA:1161:C:C2	1:AA:1162:C:C5	2.87	0.63
1:AA:1191:A:OP1	5:AF:4:LYS:CG	2.47	0.63
1:AA:1260:C:H4'	1:AA:1284:C:C5'	2.28	0.63
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.62	0.63
1:AA:588:G:H1'	1:AA:753:A:N1	2.12	0.63
1:AA:597:G:H2'	1:AA:598:U:H5'	1.79	0.63
1:AA:601:C:H2'	1:AA:602:A:C8	2.31	0.63
1:AA:698:G:H2'	1:AA:699:C:C6	2.32	0.63
1:AA:706:A:C2	1:AA:707:C:C6	2.86	0.63
1:AA:722:A:O3'	1:AA:723:U:N3	2.31	0.63
1:AA:811:C:H3'	1:AA:811:C:H6	1.63	0.63
1:AA:570:G:C5'	1:AA:820:U:H1'	2.19	0.63
1:AA:827:U:H4'	10:AK:19:VAL:CG2	2.26	0.63
1:AA:983:A:C3'	1:AA:983:A:N3	2.61	0.63
4:AE:185:ILE:CB	4:AE:199:TYR:HB2	2.29	0.63
4:AE:39:ILE:O	4:AE:41:ILE:HD12	1.98	0.63
6:AG:120:LEU:HA	6:AG:125:HIS:NE2	2.14	0.63
9:AJ:135:VAL:HG12	9:AJ:139:GLU:OE2	1.98	0.63
1:AA:826:C:H5'	10:AK:12:ARG:HH21	1.63	0.63
10:AK:68:ARG:NH2	10:AK:74:PRO:HB3	2.13	0.63
11:AL:19:LEU:CD2	11:AL:20:ARG:N	2.62	0.63
14:AO:28:LYS:HZ1	14:AO:33:ARG:NH2	1.89	0.63
15:AP:19:LEU:O	15:AP:25:ILE:HD12	1.98	0.63
21:AV:20:LEU:HG	21:AV:21:GLU:H	1.63	0.63
21:AV:38:SER:HB3	21:AV:71:LEU:HD12	1.80	0.63
22:AW:59:ALA:O	22:AW:60:GLU:C	2.36	0.63
50:B3:6:HIS:CE1	50:B3:55:ARG:HD3	2.34	0.63
55:B8:4:ARG:O	55:B8:5:ALA:CB	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:84:A:H1'	24:BA:103:A:H61	1.64	0.63
24:BA:1062:G:O6	24:BA:1077:A:C5	2.52	0.63
24:BA:1454:U:C2'	24:BA:1454:U:O2	2.47	0.63
24:BA:1535:U:C2'	24:BA:1536:A:O4'	2.36	0.63
24:BA:1656:C:H2'	24:BA:1657:C:H5	1.62	0.63
24:BA:189:G:H2'	24:BA:205:G:N2	2.11	0.63
24:BA:2225:A:H5'	24:BA:2226:C:C6	2.33	0.63
24:BA:2261:C:O2'	24:BA:2262:U:H5'	1.99	0.63
24:BA:2329:G:O5'	24:BA:2329:G:H8	1.82	0.63
24:BA:2360:A:N7	24:BA:2361:A:C8	2.67	0.63
24:BA:2720:U:C2'	24:BA:2721:A:H8	2.10	0.63
24:BA:2523:G:H1'	24:BA:2765:A:N7	2.14	0.63
24:BA:476:G:C4	24:BA:478:A:OP2	2.51	0.63
24:BA:627:A:H5''	36:BO:75:ILE:CB	2.28	0.63
24:BA:685:A:C5'	24:BA:686:G:H21	2.07	0.63
24:BA:728:G:C5	24:BA:762:U:H2'	2.33	0.63
24:BA:972:G:C5	24:BA:973:A:N7	2.67	0.63
27:BD:140:THR:C	27:BD:165:ILE:HD13	2.18	0.63
27:BD:56:GLY:N	27:BD:217:ARG:HD2	2.08	0.63
27:BD:232:PRO:HG2	27:BD:246:PRO:O	1.98	0.63
27:BD:24:ILE:HG22	27:BD:25:THR:N	2.12	0.63
30:BG:55:LYS:NZ	30:BG:152:LEU:HD11	2.14	0.63
30:BG:68:PRO:CB	30:BG:72:ARG:HH12	2.12	0.63
30:BG:6:ALA:HA	30:BG:9:ARG:HH21	1.63	0.63
31:BH:28:GLY:N	31:BH:79:VAL:HB	2.14	0.63
31:BH:51:ARG:HD3	31:BH:52:VAL:N	2.13	0.63
33:BL:39:LYS:HG2	33:BL:42:ASN:ND2	2.12	0.63
24:BA:1006:C:H4'	34:BM:32:THR:OG1	1.99	0.63
34:BM:87:LEU:O	34:BM:90:MET:CB	2.44	0.63
35:BN:105:GLU:C	35:BN:111:PHE:CZ	2.71	0.63
36:BO:15:ARG:O	36:BO:17:LYS:NZ	2.32	0.63
37:BP:137:TYR:O	37:BP:138:ASP:CB	2.46	0.63
37:BP:6:ARG:CG	37:BP:7:MET:N	2.62	0.63
40:BS:109:GLU:HB2	40:BS:114:LEU:HD21	1.79	0.63
41:BT:88:ILE:CA	42:BU:52:VAL:HG22	2.27	0.63
41:BT:94:ASN:HA	41:BT:97:ASP:CG	2.17	0.63
42:BU:76:LYS:HE3	42:BU:86:GLY:N	2.13	0.63
45:BX:44:ILE:O	45:BX:46:LYS:N	2.32	0.63
45:BX:81:LYS:HG2	45:BX:96:ILE:CG2	2.28	0.63
24:BA:2142:C:C4	24:BA:2143:C:N4	2.67	0.63
33:BL:95:LYS:NZ	46:BY:112:ARG:HD2	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:C:O2	1:AA:1146:A:N6	2.31	0.63
1:AA:1261:A:H3'	1:AA:1262:C:C5	2.33	0.63
1:AA:1255:G:N2	1:AA:1276:G:N2	2.45	0.63
1:AA:1399:C:C4	1:AA:1502:A:N7	2.66	0.63
1:AA:224:C:C2	1:AA:225:C:C5	2.87	0.63
1:AA:375:U:O2'	1:AA:376:G:H5'	1.99	0.63
1:AA:519:C:C5'	14:AO:51:ALA:HB2	2.29	0.63
1:AA:676:A:H2'	1:AA:677:U:C6	2.34	0.63
1:AA:947:G:N2	1:AA:948:C:C2	2.67	0.63
3:AD:75:C:C3'	3:AD:76:A:H4'	2.21	0.63
5:AF:182:ILE:CG2	5:AF:202:ILE:O	2.47	0.63
6:AG:128:VAL:CG2	6:AG:133:VAL:HB	2.29	0.63
6:AG:15:GLU:CB	6:AG:19:LEU:HD11	2.28	0.63
6:AG:61:LYS:O	6:AG:64:LEU:HB3	1.98	0.63
7:AH:51:VAL:HB	7:AH:52:PRO:CD	2.21	0.63
8:AI:53:ALA:CB	8:AI:86:ARG:HD2	2.28	0.63
8:AI:1:MET:SD	8:AI:68:PRO:HG3	2.39	0.63
9:AJ:129:GLU:CB	9:AJ:131:LYS:HE2	2.29	0.63
9:AJ:153:HIS:HE1	13:AN:58:PRO:CD	2.11	0.63
10:AK:137:VAL:HG12	10:AK:138:TRP:N	2.14	0.63
10:AK:21:LYS:C	10:AK:63:LEU:HD13	2.18	0.63
10:AK:6:ILE:HG13	10:AK:85:ARG:NH2	2.14	0.63
12:AM:5:ARG:HD3	12:AM:6:ILE:N	2.14	0.63
12:AM:85:LEU:HD12	12:AM:85:LEU:N	2.13	0.63
13:AN:101:SER:O	13:AN:103:LEU:N	2.32	0.63
14:AO:97:ARG:HB3	14:AO:98:TYR:CE1	2.33	0.63
15:AP:13:LYS:HA	15:AP:44:ARG:NE	2.14	0.63
15:AP:23:TYR:CE2	15:AP:70:LEU:HD13	2.33	0.63
17:AR:33:THR:HG23	17:AR:87:ILE:HD12	1.80	0.63
17:AR:42:HIS:C	17:AR:42:HIS:ND1	2.52	0.63
18:AS:43:LYS:HG3	18:AS:48:TRP:CE3	2.33	0.63
18:AS:43:LYS:HG3	18:AS:48:TRP:CZ3	2.34	0.63
19:AT:58:GLU:CD	19:AT:74:LEU:HB3	2.19	0.63
49:B2:24:LYS:HA	49:B2:27:GLY:O	1.99	0.63
51:B4:46:CYS:CB	51:B4:47:PRO:HD2	2.26	0.63
52:B5:41:PRO:HD2	52:B5:46:HIS:O	1.98	0.63
53:B6:43:THR:N	53:B6:44:PRO:CD	2.61	0.63
24:BA:108:U:H2'	24:BA:109:G:C8	2.33	0.63
24:BA:1241:A:N6	24:BA:1244:G:O6	2.31	0.63
24:BA:1315:C:O2	24:BA:1392:A:H2	1.81	0.63
24:BA:1527:G:C3'	24:BA:1527:G:C8	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1604:C:H2'	24:BA:1604:C:O2	1.99	0.63
24:BA:49:A:C6	24:BA:177:G:C2	2.86	0.63
24:BA:1890:A:H2'	24:BA:1891:G:O4'	1.98	0.63
24:BA:1914:C:OP1	24:BA:1916:A:C6	2.52	0.63
24:BA:192:C:C2'	24:BA:192:C:O2	2.46	0.63
24:BA:2227:A:C6	24:BA:2228:G:C5	2.87	0.63
24:BA:242:G:C2'	24:BA:254:G:C6	2.81	0.63
3:AB:53:G:O4'	24:BA:2470:G:H5''	1.99	0.63
24:BA:2690:C:H2'	24:BA:2691:C:OP2	1.98	0.63
24:BA:2720:U:O4	24:BA:2872:G:C6	2.52	0.63
24:BA:355:G:C6	24:BA:356:G:C6	2.87	0.63
24:BA:641:C:H2'	24:BA:642:G:H5'	1.79	0.63
24:BA:801:G:O2'	24:BA:802:A:OP1	2.13	0.63
25:BB:102:G:C2	25:BB:103:U:O4	2.52	0.63
27:BD:246:PRO:HG3	27:BD:252:TRP:HA	1.79	0.63
24:BA:2620:C:H4'	28:BE:156:MET:HB2	1.80	0.63
28:BE:33:VAL:HG21	28:BE:77:ILE:HD12	1.79	0.63
29:BF:121:GLY:HA3	29:BF:191:ARG:NE	2.11	0.63
29:BF:152:GLU:HA	29:BF:152:GLU:OE2	1.97	0.63
29:BF:30:PRO:HA	29:BF:33:LEU:CD2	2.27	0.63
29:BF:6:VAL:HA	29:BF:20:LEU:HD22	1.78	0.63
32:BK:7:GLU:N	32:BK:8:PRO:CD	2.60	0.63
33:BL:106:GLU:HA	33:BL:109:LYS:HE3	1.79	0.63
34:BM:29:LYS:O	34:BM:30:ILE:C	2.36	0.63
36:BO:132:LYS:HA	36:BO:135:LEU:HD13	1.79	0.63
37:BP:37:LEU:HD11	37:BP:130:LYS:CB	2.27	0.63
37:BP:7:MET:O	37:BP:70:PRO:HD2	1.98	0.63
38:BQ:55:ALA:CA	38:BQ:79:LEU:HD21	2.28	0.63
39:BR:40:ILE:HG22	39:BR:41:ASP:N	2.12	0.63
40:BS:4:GLY:O	40:BS:8:LYS:CG	2.46	0.63
24:BA:515:A:C5'	41:BT:32:PHE:HZ	2.11	0.63
43:BV:19:LEU:HB3	51:B4:25:LEU:CD1	2.13	0.63
43:BV:28:SER:H	43:BV:31:GLU:CD	2.01	0.63
43:BV:43:GLY:O	43:BV:47:VAL:HG23	1.99	0.63
45:BX:24:VAL:O	45:BX:24:VAL:HG23	1.97	0.63
46:BY:44:PHE:HD2	46:BY:48:PHE:CE1	2.17	0.63
26:BC:82:LYS:HE3	26:BC:147:PHE:CD1	2.23	0.63
24:BA:363(A):A:H2'	24:BA:363(B):G:O5'	1.98	0.63
26:BC:194:ARG:HH11	26:BC:194:ARG:HG3	1.63	0.63
1:AA:1192:C:N4	1:AA:1193:G:C5	2.67	0.63
1:AA:1202:G:H21	1:AA:1203:C:C1'	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1254:C:OP1	12:AM:45:ARG:CZ	2.47	0.63
1:AA:1321:C:C6	1:AA:1321:C:O5'	2.51	0.63
1:AA:1441:G:H1'	1:AA:1461:G:N2	2.14	0.63
1:AA:775:G:H2'	1:AA:776:G:C8	2.34	0.63
1:AA:791:G:N2	1:AA:1497:G:O3'	2.32	0.63
1:AA:815:A:N1	1:AA:1529:G:C2	2.67	0.63
4:AE:56:ARG:CZ	4:AE:56:ARG:HB3	2.29	0.63
4:AE:82:ARG:HD2	4:AE:92:TYR:HH	1.63	0.63
5:AF:87:LEU:HB2	5:AF:101:LEU:HD11	1.81	0.63
5:AF:82:GLU:O	5:AF:85:ARG:HB3	1.97	0.63
7:AH:96:PRO:C	7:AH:98:THR:N	2.49	0.63
8:AI:68:PRO:HB2	8:AI:71:ARG:HG2	1.80	0.63
10:AK:38:ILE:O	10:AK:41:ARG:HB2	1.99	0.63
12:AM:39:PRO:HA	12:AM:70:ARG:HH11	1.63	0.63
12:AM:79:ARG:CZ	12:AM:82:ILE:HB	2.28	0.63
13:AN:106:LYS:CG	13:AN:107:SER:H	2.09	0.63
13:AN:21:ILE:HG22	13:AN:30:VAL:CG2	2.27	0.63
13:AN:69:ALA:HB1	13:AN:103:LEU:CD1	2.28	0.63
14:AO:110:VAL:CG2	14:AO:113:ARG:HG3	2.29	0.63
14:AO:27:LEU:HD23	14:AO:33:ARG:CD	2.28	0.63
14:AO:38:THR:HG23	14:AO:39:VAL:H	1.63	0.63
17:AR:63:ARG:HH12	17:AR:87:ILE:CD1	2.11	0.63
18:AS:75:ARG:HA	18:AS:80:PHE:HB2	1.79	0.63
19:AT:63:ARG:HG2	19:AT:64:PRO:N	2.12	0.63
49:B2:10:LYS:NZ	49:B2:12:PRO:HG3	2.09	0.63
51:B4:34:PRO:HD3	51:B4:40:LYS:CE	2.28	0.63
24:BA:2392:A:P	54:B7:33:ASN:HD21	2.22	0.63
24:BA:1135:C:O2'	24:BA:1136:G:H5'	1.99	0.63
24:BA:1161:C:H1'	42:BU:22:VAL:CG1	2.28	0.63
24:BA:1434:A:H61	24:BA:1558:A:H61	1.45	0.63
24:BA:144:C:C2'	24:BA:145:G:H5'	2.29	0.63
24:BA:1498:C:O2	24:BA:1499:C:C5	2.52	0.63
24:BA:1697:G:C4'	24:BA:1698:A:H5'	2.28	0.63
24:BA:1735:C:C2	24:BA:1741:C:H5	2.17	0.63
24:BA:1801:G:C4	27:BD:263:ARG:NH2	2.66	0.63
24:BA:1953:A:N6	24:BA:2549:G:O2'	2.32	0.63
24:BA:1966:A:O2'	24:BA:1967:C:P	2.56	0.63
24:BA:2077:A:C4	24:BA:2435:A:C8	2.87	0.63
24:BA:2378:A:H5''	24:BA:2379:G:OP2	1.99	0.63
24:BA:2392:A:C2'	24:BA:2393:A:O5'	2.47	0.63
24:BA:2755:C:H4'	24:BA:2756:U:C6	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2849:U:C6	24:BA:2849:U:C3'	2.82	0.63
24:BA:304:G:H2'	24:BA:305:U:C6	2.34	0.63
24:BA:351:G:O2'	24:BA:352:G:P	2.57	0.63
24:BA:503:A:C4	24:BA:505:A:N7	2.66	0.63
24:BA:60:G:C8	24:BA:63:U:O4	2.51	0.63
24:BA:675:A:H2'	24:BA:676:A:N3	2.14	0.63
24:BA:693:C:O2'	24:BA:694:U:H5'	1.99	0.63
24:BA:815:C:O2'	24:BA:816:C:H5''	1.99	0.63
24:BA:974:G:C3'	24:BA:974(A):C:H5''	2.16	0.63
25:BB:31:C:H1'	25:BB:53:A:H61	1.63	0.63
27:BD:127:VAL:CG1	27:BD:194:GLY:HA3	2.14	0.63
27:BD:200:ASP:O	27:BD:203:ASN:N	2.29	0.63
24:BA:1901:A:O2'	27:BD:244:ARG:CZ	2.47	0.63
27:BD:37:LEU:HD12	27:BD:62:TYR:O	1.98	0.63
28:BE:104:VAL:CG1	28:BE:105:THR:N	2.61	0.63
28:BE:171:GLU:N	28:BE:185:LYS:HZ3	1.97	0.63
24:BA:2784:C:H4'	28:BE:40:GLU:OE2	1.98	0.63
29:BF:64:ILE:HG23	29:BF:78:ILE:HB	1.80	0.63
29:BF:65:TRP:HB3	29:BF:75:HIS:O	1.99	0.63
31:BH:126:PRO:CG	31:BH:132:ARG:NH2	2.61	0.63
31:BH:37:VAL:CG2	31:BH:37:VAL:O	2.47	0.63
33:BL:104:VAL:HG12	33:BL:124:ALA:HA	1.81	0.63
33:BL:55:VAL:CG2	33:BL:69:THR:HG22	2.29	0.63
24:BA:558:G:H5'	34:BM:112:LEU:HG	1.80	0.63
34:BM:14:VAL:HG22	34:BM:138:LEU:CD1	2.29	0.63
34:BM:31:ALA:O	34:BM:33:LEU:N	2.32	0.63
34:BM:7:LYS:HD3	34:BM:39:ARG:NH1	2.13	0.63
34:BM:60:ILE:HG22	34:BM:61:ARG:N	2.13	0.63
35:BN:70:LYS:CE	35:BN:103:ALA:HB3	2.29	0.63
35:BN:21:CYS:HA	35:BN:41:ALA:CB	2.28	0.63
35:BN:62:VAL:O	35:BN:63:VAL:CG2	2.39	0.63
36:BO:113:LYS:CA	36:BO:129:ALA:HB1	2.29	0.63
37:BP:27:VAL:HG13	37:BP:104:PHE:CE2	2.34	0.63
37:BP:75:THR:HA	37:BP:91:GLU:CD	2.18	0.63
38:BQ:28:LEU:HD11	38:BQ:116:LEU:HD23	1.80	0.63
39:BR:10:ARG:NH1	39:BR:89:ARG:HH12	1.97	0.63
39:BR:14:VAL:O	39:BR:18:ILE:HD13	1.99	0.63
39:BR:42:ASP:O	39:BR:44:LYS:N	2.27	0.63
39:BR:49:VAL:HG13	39:BR:76:LYS:NZ	2.13	0.63
39:BR:57:LYS:NZ	39:BR:65:VAL:HA	2.13	0.63
39:BR:9:ARG:HA	39:BR:12:PHE:CD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:40:LEU:C	42:BU:51:VAL:HG13	2.18	0.63
24:BA:747:U:O2'	43:BV:88:ARG:HG3	1.99	0.63
45:BX:97:ARG:HB3	45:BX:101:LYS:HE2	1.80	0.63
45:BX:65:ALA:CB	45:BX:66:PRO:HD3	2.28	0.63
46:BY:24:LEU:HD13	46:BY:83:PRO:HG2	1.78	0.63
32:BK:131:LYS:HA	32:BK:137:PRO:HA	1.81	0.63
24:BA:2132:U:H2'	24:BA:2132:U:O2	1.99	0.63
24:BA:2141:G:C6	24:BA:2151:G:C6	2.86	0.63
26:BC:100:ILE:O	26:BC:104:LEU:HD23	1.99	0.63
3:AD:56:C:H5''	26:BC:133:PRO:HB2	1.80	0.63
24:BA:274:G:C2'	24:BA:275:G:H5'	2.27	0.63
12:AM:3:LYS:HE3	12:AM:77:PRO:CD	2.29	0.63
2:A1:28:G:H2'	2:A1:29:G:H8	1.63	0.63
2:A1:33:U:H2'	2:A1:34:U:C4	2.33	0.63
1:AA:1077:G:O6	7:AH:47:LYS:NZ	2.32	0.63
1:AA:237:C:OP1	19:AT:40:LYS:NZ	2.32	0.63
1:AA:439:A:H3'	1:AA:440:A:H8	1.64	0.63
1:AA:50:A:C6	1:AA:361:G:C4'	2.82	0.63
1:AA:518:C:H3'	1:AA:530:G:N2	2.14	0.63
1:AA:52:G:O2'	1:AA:53:A:H5'	1.99	0.63
1:AA:553:A:H2'	1:AA:554:C:O4'	1.99	0.63
1:AA:830:G:C6	1:AA:831:U:C4	2.87	0.63
1:AA:21:G:N2	1:AA:915:A:N6	2.46	0.63
4:AE:118:LEU:HD22	4:AE:142:LEU:CD1	2.29	0.63
4:AE:162:ILE:HD13	4:AE:162:ILE:N	2.14	0.63
4:AE:52:GLU:CG	4:AE:53:ARG:N	2.62	0.63
4:AE:67:THR:CB	4:AE:155:LEU:HD21	2.28	0.63
4:AE:71:VAL:HG22	4:AE:93:VAL:CB	2.28	0.63
4:AE:70:PHE:O	4:AE:92:TYR:HB2	1.98	0.63
9:AJ:70:LYS:HA	9:AJ:100:ALA:HB2	1.81	0.63
9:AJ:155:ARG:HH11	9:AJ:156:TRP:H	1.44	0.63
9:AJ:17:VAL:HB	9:AJ:44:TYR:OH	1.99	0.63
10:AK:29:SER:C	10:AK:32:LYS:NZ	2.52	0.63
1:AA:972:C:O2	12:AM:55:LYS:HE3	1.98	0.63
13:AN:62:GLN:O	13:AN:66:LEU:HG	1.99	0.63
14:AO:56:ALA:HB2	14:AO:70:ILE:HG13	1.80	0.63
14:AO:9:GLN:HA	14:AO:12:ARG:NH1	2.12	0.63
15:AP:25:ILE:HG12	15:AP:66:LEU:HD13	1.80	0.63
1:AA:1202:G:H1'	16:AQ:29:ARG:HE	1.63	0.63
19:AT:88:TYR:HA	19:AT:91:ARG:CZ	2.28	0.63
22:AW:23:ARG:HD3	22:AW:24:LEU:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:63:ILE:HD11	22:AW:80:ARG:HB3	1.78	0.63
1:AA:1242:C:C5'	23:AX:10:ARG:HH12	2.02	0.63
48:B1:50:ARG:O	48:B1:54:ARG:HG3	1.98	0.63
49:B2:13:ILE:CG2	49:B2:14:GLY:H	1.99	0.63
54:B7:5:LYS:HD2	54:B7:63:PRO:HG2	1.79	0.63
24:BA:1407:C:H2'	24:BA:1408:C:C6	2.33	0.63
24:BA:1491:G:H2'	24:BA:1492:G:O3'	1.99	0.63
24:BA:152:G:O2'	24:BA:153:C:H5'	1.99	0.63
24:BA:141:A:C2	24:BA:1597:A:H5'	2.34	0.63
24:BA:1626:G:N2	24:BA:1634:A:O2'	2.32	0.63
24:BA:1670:C:OP2	24:BA:1671:U:H5	1.82	0.63
24:BA:1772:G:N2	24:BA:1774:C:H5'	2.14	0.63
24:BA:1817:G:OP1	27:BD:88:ARG:NH1	2.30	0.63
24:BA:1824:G:O2'	27:BD:246:PRO:CB	2.43	0.63
24:BA:1902:C:C2'	24:BA:1903:G:H5'	2.27	0.63
24:BA:574:C:H41	24:BA:2054:A:H5''	1.62	0.63
24:BA:226:G:N2	24:BA:227:A:N3	2.47	0.63
24:BA:2346:A:N3	24:BA:2383:G:C4	2.66	0.63
24:BA:245:G:H1	24:BA:253:C:H42	1.44	0.63
24:BA:2466:C:OP1	55:B8:5:ALA:HB3	1.98	0.63
24:BA:2547:U:C2'	24:BA:2548:G:H5''	2.29	0.63
24:BA:2574:G:H2'	24:BA:2575:C:O4'	1.99	0.63
24:BA:270(L):U:H2'	24:BA:270(L):U:O2	1.98	0.63
24:BA:2754:U:C2'	24:BA:2756:U:OP1	2.46	0.63
24:BA:2798:C:C5	24:BA:2801:A:N6	2.66	0.63
24:BA:290:G:H3'	24:BA:290:G:H8	1.64	0.63
24:BA:373:U:O2'	24:BA:375:C:N4	2.26	0.63
24:BA:61:G:H5'	48:B1:45:ILE:HG12	1.80	0.63
24:BA:639:U:O4	24:BA:648:G:O6	2.17	0.63
24:BA:872:A:O2'	37:BP:66:ILE:CG1	2.47	0.63
24:BA:919:G:N2	24:BA:2268:A:H5''	2.14	0.63
24:BA:975:G:C2	24:BA:976:C:H6	2.16	0.63
25:BB:62:C:C2	25:BB:63:G:N7	2.67	0.63
27:BD:157:ARG:O	27:BD:158:ALA:O	2.17	0.63
24:BA:2571:C:H1'	28:BE:146:THR:CG2	2.27	0.63
28:BE:5:LEU:HG	28:BE:25:VAL:HG13	1.80	0.63
29:BF:201:VAL:O	29:BF:205:ARG:HG3	1.98	0.63
29:BF:77:ASP:OD1	29:BF:80:ALA:HB2	1.98	0.63
31:BH:9:ILE:CD1	31:BH:73:ALA:HB2	2.29	0.63
32:BK:2:LYS:HZ2	32:BK:44:LEU:HD21	1.63	0.63
33:BL:7:VAL:HB	33:BL:56:GLU:OE1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:128:HIS:N	34:BM:129:PRO:CD	2.60	0.63
34:BM:16:ILE:HD12	34:BM:16:ILE:H	1.63	0.63
34:BM:25:ARG:HA	34:BM:28:THR:HG23	1.80	0.63
35:BN:11:ALA:HB2	35:BN:17:ARG:NE	2.13	0.63
36:BO:51:PHE:C	36:BO:55:ARG:HG3	2.18	0.63
36:BO:79:ARG:HA	36:BO:79:ARG:CZ	2.29	0.63
37:BP:56:ARG:CZ	37:BP:57:HIS:CB	2.77	0.63
37:BP:75:THR:CG2	37:BP:89:ASN:O	2.47	0.63
38:BQ:75:LEU:HA	38:BQ:78:LYS:CB	2.28	0.63
38:BQ:73:VAL:HA	38:BQ:76:VAL:HB	1.81	0.63
40:BS:28:VAL:HG12	40:BS:29:ARG:O	1.98	0.63
40:BS:35:LYS:O	40:BS:36:GLU:O	2.17	0.63
41:BT:19:LYS:O	41:BT:20:LEU:C	2.38	0.63
41:BT:93:LYS:HB2	42:BU:10:LYS:CD	2.29	0.63
43:BV:12:ILE:O	43:BV:13:SER:HB2	1.98	0.63
46:BY:102:LEU:HG	46:BY:125:LEU:HG	1.80	0.63
47:BZ:46:LYS:CG	47:BZ:78:TYR:CE2	2.78	0.63
3:AD:48:C:N4	3:AD:59:U:O2	2.32	0.63
3:AD:58:A:H2'	3:AD:61:C:N4	2.13	0.63
24:BA:2125:G:OP1	26:BC:40:THR:HG21	1.99	0.63
26:BC:74:VAL:HA	26:BC:112:ALA:O	1.98	0.63
26:BC:83:ILE:HG23	26:BC:87:GLU:OE2	1.98	0.63
24:BA:363(D):G:N1	24:BA:363(E):U:C2	2.67	0.63
1:AA:1028:C:H2'	1:AA:1028(A):C:H6	1.58	0.63
1:AA:1202:G:N2	1:AA:1203:C:C1'	2.61	0.63
1:AA:1419:G:O2'	1:AA:1420:C:O4'	2.17	0.63
1:AA:193:C:H2'	1:AA:194:C:C5	2.34	0.63
1:AA:308:C:C2	1:AA:309:G:C8	2.86	0.63
1:AA:36:C:N3	1:AA:37:U:O2	2.32	0.63
1:AA:43:C:H2'	1:AA:44:G:C8	2.33	0.63
1:AA:579:G:C2'	1:AA:580:U:H5'	2.29	0.63
1:AA:720:C:H2'	1:AA:721:G:C8	2.34	0.63
1:AA:781:A:N6	1:AA:802:A:N3	2.47	0.63
1:AA:922:G:O2'	1:AA:923:A:H5'	1.99	0.63
1:AA:947:G:N3	1:AA:948:C:C6	2.67	0.63
1:AA:992:U:H4'	1:AA:993:G:O5'	1.98	0.63
4:AE:163:PHE:HE1	4:AE:201:ILE:HD13	1.64	0.63
5:AF:47:LEU:HD11	5:AF:83:ARG:NH2	2.14	0.63
6:AG:150:GLU:O	6:AG:152:SER:N	2.32	0.63
6:AG:57:ARG:NH2	7:AH:107:ARG:HD3	2.14	0.63
7:AH:31:LEU:CD1	7:AH:129:ILE:HG23	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:56:GLN:N	7:AH:56:GLN:NE2	2.47	0.63
8:AI:7:ASN:C	8:AI:8:ILE:HG12	2.18	0.63
10:AK:45:ILE:HG13	10:AK:47:GLY:H	1.62	0.63
10:AK:48:TYR:C	10:AK:48:TYR:CD1	2.73	0.63
12:AM:12:ASP:O	12:AM:15:THR:HG22	1.98	0.63
14:AO:91:LYS:O	14:AO:92:ASP:CB	2.47	0.63
1:AA:1216:G:H5''	16:AQ:5:ALA:CB	2.29	0.63
18:AS:12:LYS:HZ1	18:AS:13:HIS:CE1	2.16	0.63
21:AV:36:ARG:HG3	21:AV:72:GLY:CA	2.27	0.63
48:B1:46:ARG:HE	48:B1:50:ARG:NH2	1.96	0.63
51:B4:29:THR:C	51:B4:30:LEU:HG	2.19	0.63
52:B5:16:CYS:SG	52:B5:19:ARG:NE	2.72	0.63
52:B5:28:ARG:O	52:B5:29:ASN:O	2.17	0.63
24:BA:1063:G:N2	24:BA:1076:C:C6	2.62	0.63
24:BA:1084:A:O2'	24:BA:1105:U:H1'	1.99	0.63
24:BA:2325:G:H2'	24:BA:2326:C:O4'	1.99	0.63
24:BA:411:G:N2	24:BA:2408:U:H3	1.92	0.63
24:BA:270(U):C:H2'	24:BA:270(V):G:C1'	2.29	0.63
24:BA:2741:A:H2'	24:BA:2742:C:O4'	1.98	0.63
24:BA:2758:A:N6	24:BA:2759:G:O6	2.30	0.63
24:BA:280:C:N4	24:BA:283:A:N6	2.44	0.63
24:BA:2789:C:HO2'	24:BA:2893:G:H22	1.45	0.63
24:BA:351:G:O2'	24:BA:352:G:OP2	2.16	0.63
24:BA:481:G:H1	24:BA:509:C:N4	1.95	0.63
24:BA:576:U:C2	24:BA:577:G:N7	2.67	0.63
24:BA:861:A:N3	25:BB:79:C:O2'	2.31	0.63
24:BA:861:A:N7	24:BA:917:A:H2	1.97	0.63
25:BB:83:G:N2	25:BB:84:C:N1	2.47	0.63
27:BD:80:ALA:CB	27:BD:94:LEU:O	2.47	0.63
30:BG:128:ARG:NH1	30:BG:130:ASN:HD21	1.97	0.63
31:BH:149:ARG:CG	31:BH:153:LYS:HD2	2.28	0.63
32:BK:5:LEU:CB	32:BK:8:PRO:HD2	2.22	0.63
34:BM:33:LEU:HD22	34:BM:33:LEU:C	2.19	0.63
35:BN:12:ASP:H	35:BN:14:THR:HG22	1.63	0.63
35:BN:4:PRO:CG	35:BN:5:GLN:N	2.51	0.63
37:BP:25:ASP:CB	37:BP:101:ARG:HD2	2.23	0.63
37:BP:126:PRO:C	37:BP:127:ILE:HG13	2.19	0.63
37:BP:6:ARG:HD3	37:BP:6:ARG:C	2.19	0.63
37:BP:16:ARG:CG	37:BP:72:LYS:HD2	2.26	0.63
37:BP:75:THR:OG1	37:BP:91:GLU:OE2	2.13	0.63
38:BQ:10:LEU:HB2	38:BQ:17:ARG:NH1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:54:LEU:HD12	38:BQ:54:LEU:H	1.64	0.63
39:BR:23:ARG:C	39:BR:24:LEU:HD12	2.20	0.63
40:BS:68:TYR:CZ	40:BS:70:VAL:HG22	2.34	0.63
40:BS:6:LEU:HA	40:BS:9:LEU:HD12	1.80	0.63
42:BU:28:GLU:O	42:BU:30:GLY:N	2.32	0.63
42:BU:40:LEU:CG	42:BU:55:ALA:N	2.52	0.63
43:BV:25:ARG:HG2	43:BV:71:VAL:HG21	1.81	0.63
24:BA:748:G:C5'	43:BV:88:ARG:NH1	2.59	0.63
46:BY:177:PRO:HG2	46:BY:178:GLU:N	2.12	0.63
3:AD:16:U:O2'	3:AD:17:C:H4'	1.99	0.63
24:BA:2130:U:H5''	24:BA:2131:G:OP1	1.98	0.63
3:AD:41:C:H5'	3:AD:41:C:C6	2.33	0.63
32:BK:136:VAL:HG23	32:BK:136:VAL:O	1.97	0.63
1:AA:1132:C:C4	1:AA:1133:G:N7	2.67	0.62
1:AA:1272:G:H2'	1:AA:1273:G:H8	1.65	0.62
1:AA:1276:G:O2'	1:AA:1282:C:H4'	1.98	0.62
1:AA:1339:A:O4'	3:AC:41:C:H5''	1.98	0.62
1:AA:235:C:H2'	1:AA:236:G:H8	1.64	0.62
1:AA:355:C:C1'	1:AA:388:G:H2'	2.24	0.62
1:AA:453:A:H62	1:AA:480:U:H3	1.45	0.62
1:AA:671:G:H2'	1:AA:672:U:O4'	1.99	0.62
1:AA:689:C:H5''	1:AA:690:G:OP2	1.99	0.62
1:AA:762:C:C2	1:AA:763:G:N7	2.67	0.62
1:AA:778:G:H2'	1:AA:779:C:C6	2.34	0.62
1:AA:795:C:H4'	1:AA:1506:U:O2	1.99	0.62
1:AA:817:C:O2'	1:AA:818:G:P	2.57	0.62
1:AA:962:C:H2'	1:AA:963:G:O4'	1.98	0.62
3:AC:18:G:C6	3:AC:57:G:N1	2.67	0.62
3:AC:53:G:O2'	3:AC:54:U:H5'	1.98	0.62
3:AC:75:C:C3'	3:AC:76:A:O3'	2.47	0.62
4:AE:169:LYS:HE2	4:AE:170:GLU:CA	2.28	0.62
5:AF:59:ARG:CZ	5:AF:59:ARG:HB2	2.26	0.62
5:AF:63:ASN:O	5:AF:99:VAL:HG12	1.99	0.62
6:AG:129:ASN:ND2	6:AG:144:ASP:CG	2.53	0.62
6:AG:94:LEU:O	6:AG:97:LEU:HB2	1.99	0.62
7:AH:105:VAL:HG22	7:AH:132:ALA:HB2	1.80	0.62
7:AH:81:GLU:HB3	7:AH:90:VAL:CG2	2.28	0.62
8:AI:60:PHE:CE2	20:AU:78:LEU:HD11	2.34	0.62
9:AJ:99:LEU:HD21	9:AJ:102:ARG:HD2	1.81	0.62
10:AK:13:ILE:HG22	10:AK:14:ARG:H	1.58	0.62
11:AL:62:TYR:C	11:AL:63:ILE:HD12	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:48:THR:HG23	12:AM:61:GLU:O	1.98	0.62
12:AM:79:ARG:NH2	12:AM:82:ILE:HD12	2.13	0.62
13:AN:19:ALA:N	13:AN:80:VAL:HG21	2.14	0.62
15:AP:14:ARG:CA	15:AP:44:ARG:HA	2.29	0.62
15:AP:55:ARG:HH21	15:AP:56:LEU:HD11	1.64	0.62
16:AQ:24:CYS:HB3	16:AQ:28:GLY:O	1.98	0.62
21:AV:22:LEU:HG	21:AV:25:LYS:NZ	2.11	0.62
22:AW:51:GLU:O	22:AW:55:ILE:HG13	1.98	0.62
23:AX:11:GLY:O	23:AX:15:ARG:HG2	1.99	0.62
49:B2:35:ARG:NH1	49:B2:47:VAL:HG22	2.13	0.62
24:BA:120:U:H1'	24:BA:149:A:N3	2.14	0.62
24:BA:1363:C:N4	50:B3:2:LYS:CE	2.58	0.62
24:BA:1612:C:O3'	53:B6:5:TRP:CD1	2.52	0.62
24:BA:742:G:C5'	24:BA:1675:C:O2'	2.47	0.62
24:BA:1675:C:O2	24:BA:1676:A:O4'	2.17	0.62
24:BA:1700:A:H3'	24:BA:1701:A:C8	2.29	0.62
24:BA:1912:A:N7	24:BA:1918:A:N6	2.46	0.62
24:BA:1933:G:N2	24:BA:1973:G:O2'	2.31	0.62
24:BA:201:C:H2'	24:BA:202:U:C5'	2.28	0.62
24:BA:2039:C:H2'	24:BA:2040:C:C6	2.34	0.62
24:BA:2373:G:C2	24:BA:2374:C:C4	2.87	0.62
24:BA:2458:G:H2'	24:BA:2460:U:C4	2.34	0.62
24:BA:252:G:N3	24:BA:253:C:C6	2.67	0.62
24:BA:1966:A:C1'	24:BA:2593:U:H5'	2.25	0.62
24:BA:35:G:O4'	24:BA:454:A:H1'	1.99	0.62
24:BA:515:A:H3'	24:BA:515:A:C8	2.33	0.62
24:BA:642:G:H8	24:BA:642:G:H3'	1.64	0.62
24:BA:602:G:H2'	24:BA:655:A:C2	2.34	0.62
24:BA:772:C:C2	24:BA:773:U:C5	2.87	0.62
24:BA:775:G:H21	24:BA:787:U:C2'	2.08	0.62
24:BA:6:A:O2'	24:BA:7:G:H5'	1.99	0.62
24:BA:820:A:C2	24:BA:821:A:O4'	2.52	0.62
24:BA:852:G:O4'	49:B2:42:ALA:HA	1.99	0.62
24:BA:883:G:C2	24:BA:894:C:C2	2.87	0.62
25:BB:62:C:C2	25:BB:63:G:C8	2.87	0.62
25:BB:90:C:H2'	25:BB:91:C:H6	1.64	0.62
27:BD:119:ALA:HB2	27:BD:130:ALA:N	2.09	0.62
27:BD:129:ASN:O	27:BD:193:VAL:CG2	2.47	0.62
27:BD:5:LYS:CD	27:BD:81:ALA:HB1	2.28	0.62
27:BD:79:VAL:HB	27:BD:114:GLY:N	2.14	0.62
27:BD:85:ASP:O	27:BD:87:ASN:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:131:ALA:HB1	28:BE:134:ILE:CG1	2.28	0.62
29:BF:122:LYS:HE3	29:BF:192:LEU:CD1	2.24	0.62
30:BG:157:ILE:HG12	30:BG:158:ALA:H	1.63	0.62
30:BG:53:LEU:O	30:BG:68:PRO:HB2	1.99	0.62
32:BK:31:LEU:HD22	32:BK:36:ALA:H	1.63	0.62
33:BL:12:LEU:HD22	33:BL:23:VAL:HG23	1.81	0.62
34:BM:34:LEU:HD23	34:BM:116:LEU:HD21	1.80	0.62
34:BM:15:LEU:HD11	34:BM:137:LYS:HB3	1.81	0.62
34:BM:4:TYR:HB2	41:BT:64:ARG:NH1	2.03	0.62
36:BO:121:LYS:N	36:BO:122:PRO:CD	2.62	0.62
37:BP:77:LYS:HG2	37:BP:87:LYS:HA	1.81	0.62
37:BP:9:TYR:HD1	37:BP:10:ARG:HD3	1.63	0.62
38:BQ:17:ARG:HH11	38:BQ:17:ARG:HB2	1.63	0.62
39:BR:52:SER:HB3	39:BR:73:LEU:HD11	1.81	0.62
24:BA:18:C:OP1	41:BT:26:GLY:CA	2.46	0.62
24:BA:445:C:O3'	41:BT:3:ARG:HG2	1.99	0.62
34:BM:42:TRP:HE1	41:BT:64:ARG:HG2	1.64	0.62
41:BT:99:ALA:HB2	41:BT:106:PHE:CE1	2.34	0.62
42:BU:68:LYS:NZ	42:BU:95:LEU:CD1	2.61	0.62
46:BY:175:VAL:CG2	46:BY:176:PRO:HD2	2.28	0.62
46:BY:1:MET:SD	46:BY:59:LEU:O	2.57	0.62
26:BC:64:LEU:HD12	26:BC:161:ILE:HG12	1.79	0.62
26:BC:30:LYS:HZ2	26:BC:182:PRO:HD3	1.63	0.62
26:BC:75:LEU:HB2	26:BC:110:PHE:CG	2.33	0.62
1:AA:1016:A:H8	1:AA:1016:A:O5'	1.82	0.62
15:AP:121:LYS:HE3	15:AP:121:LYS:CA	2.29	0.62
15:AP:121:LYS:HA	15:AP:121:LYS:HE3	1.80	0.62
49:B2:36:VAL:O	49:B2:36:VAL:HG23	1.99	0.62
1:AA:130:A:N6	19:AT:64:PRO:HG2	2.14	0.62
1:AA:1344:C:H5'	11:AL:120:ARG:O	1.98	0.62
1:AA:1505:G:H5''	1:AA:1506:U:O5'	1.99	0.62
1:AA:520:A:C8	1:AA:521:G:O4'	2.52	0.62
1:AA:750:G:N3	17:AR:23:GLY:O	2.32	0.62
1:AA:755:G:H2'	1:AA:756:C:C5	2.34	0.62
1:AA:765:G:O2'	1:AA:766:A:C5'	2.42	0.62
1:AA:818:G:O2'	1:AA:819:A:OP1	2.17	0.62
1:AA:828:A:O4'	1:AA:859:A:H2	1.82	0.62
1:AA:895:G:H2'	1:AA:896:C:C6	2.35	0.62
1:AA:900:A:C5	1:AA:901:A:N7	2.68	0.62
3:AC:2:C:H2'	3:AC:3:C:H6	1.62	0.62
4:AE:70:PHE:CB	4:AE:163:PHE:O	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:9:GLU:HG2	4:AE:10:LEU:N	2.15	0.62
5:AF:108:ASN:ND2	5:AF:111:LEU:HD13	2.09	0.62
5:AF:146:ALA:C	5:AF:147:LYS:HD2	2.19	0.62
5:AF:138:VAL:HG22	5:AF:151:VAL:HG21	1.81	0.62
7:AH:141:GLN:C	7:AH:142:LEU:HG	2.20	0.62
8:AI:22:GLU:O	8:AI:26:ILE:HG13	1.99	0.62
8:AI:2:ARG:O	8:AI:67:MET:SD	2.57	0.62
8:AI:36:ARG:HB3	8:AI:36:ARG:CZ	2.28	0.62
1:AA:1373:G:H5'	9:AJ:36:LYS:HB2	1.81	0.62
11:AL:109:VAL:HG12	11:AL:109:VAL:O	1.98	0.62
11:AL:110:GLU:O	11:AL:111:ARG:HB2	1.98	0.62
11:AL:66:ARG:HG2	11:AL:67:GLY:N	2.15	0.62
12:AM:7:LYS:HG3	12:AM:71:LEU:HD13	1.80	0.62
14:AO:30:ALA:HB1	14:AO:31:PRO:HD2	1.80	0.62
14:AO:65:GLU:O	14:AO:66:VAL:HG13	1.99	0.62
14:AO:85:ILE:HD11	14:AO:98:TYR:C	2.19	0.62
15:AP:81:LEU:O	15:AP:86:CYS:SG	2.57	0.62
16:AQ:29:ARG:HH11	16:AQ:29:ARG:CB	2.06	0.62
19:AT:75:ARG:CZ	19:AT:77:VAL:HG22	2.29	0.62
20:AU:87:ARG:O	20:AU:88:LYS:C	2.37	0.62
48:B1:58:VAL:O	48:B1:59:LEU:C	2.36	0.62
50:B3:68:ARG:NH1	50:B3:68:ARG:CB	2.62	0.62
51:B4:35:GLU:CB	51:B4:49:CYS:HB3	2.28	0.62
24:BA:1069:A:H5'	24:BA:1070:A:H3'	1.80	0.62
24:BA:1135:C:O2	24:BA:2038:G:H4'	2.00	0.62
24:BA:1245:G:OP1	36:BO:15:ARG:HD2	1.99	0.62
24:BA:116:C:H1'	24:BA:127:A:H1'	1.80	0.62
24:BA:1693:U:O2	24:BA:1693:U:H2'	1.99	0.62
24:BA:1743:G:O6	24:BA:1746:G:C6	2.52	0.62
24:BA:1894:C:O2'	24:BA:1895:C:H5'	1.99	0.62
24:BA:1977:A:C2	24:BA:1978:A:N9	2.67	0.62
24:BA:1997:G:N1	24:BA:1998:G:C6	2.67	0.62
24:BA:2063:C:H2'	24:BA:2064:C:C4'	2.28	0.62
24:BA:2219:G:H2'	24:BA:2224:G:O5'	2.00	0.62
24:BA:2484:G:C1'	37:BP:124:LYS:HZ3	2.12	0.62
24:BA:2637:U:OP2	24:BA:2637:U:C6	2.52	0.62
24:BA:2720:U:O4	24:BA:2873:A:N6	2.33	0.62
24:BA:292:C:C6	24:BA:293:U:C4	2.86	0.62
24:BA:464:U:O5'	24:BA:464:U:C6	2.50	0.62
24:BA:469:G:OP2	29:BF:59:TYR:CE2	2.51	0.62
24:BA:668:G:H2'	24:BA:670:A:N6	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:729:G:H5''	27:BD:211:ARG:HH12	1.63	0.62
24:BA:748:G:N7	24:BA:750:A:C5	2.67	0.62
24:BA:828:U:C6	24:BA:829:A:N7	2.68	0.62
24:BA:959:A:H2'	24:BA:960:A:H8	1.62	0.62
24:BA:987:G:O6	24:BA:988:A:C5	2.52	0.62
25:BB:30:C:C1'	25:BB:58:A:C2	2.82	0.62
27:BD:76:PRO:HA	27:BD:118:VAL:HG21	1.81	0.62
27:BD:55:GLY:H	27:BD:218:ARG:HD3	1.64	0.62
27:BD:226:MET:CE	27:BD:237:GLU:H	2.11	0.62
27:BD:5:LYS:HA	27:BD:28:GLU:HB2	1.80	0.62
27:BD:5:LYS:HD3	27:BD:29:PRO:CB	2.24	0.62
27:BD:65:ILE:HG22	27:BD:66:ASP:N	2.13	0.62
29:BF:12:LEU:O	29:BF:14:PRO:CD	2.46	0.62
29:BF:162:LEU:HD22	29:BF:165:ARG:HH21	1.63	0.62
29:BF:152:GLU:O	29:BF:172:TRP:HA	1.98	0.62
30:BG:139:LEU:HD13	30:BG:142:PRO:HB3	1.82	0.62
34:BM:104:LYS:O	34:BM:107:LEU:N	2.33	0.62
34:BM:87:LEU:O	34:BM:91:LEU:CG	2.47	0.62
24:BA:2393:A:H5''	36:BO:56:SER:N	2.14	0.62
36:BO:64:LYS:HD2	36:BO:64:LYS:C	2.19	0.62
37:BP:55:VAL:HG23	37:BP:64:ILE:HD11	1.81	0.62
37:BP:75:THR:HA	37:BP:91:GLU:CG	2.29	0.62
38:BQ:8:ARG:NH2	38:BQ:17:ARG:HD2	2.14	0.62
38:BQ:6:SER:OG	38:BQ:9:LYS:HE2	1.99	0.62
42:BU:3:ALA:HA	42:BU:44:LYS:HZ3	1.64	0.62
42:BU:69:LYS:HG2	42:BU:70:ILE:N	2.14	0.62
44:BW:27:THR:HB	44:BW:80:ILE:CD1	2.26	0.62
45:BX:13:VAL:HG13	45:BX:70:SER:CB	2.29	0.62
47:BZ:50:ASN:HB2	47:BZ:81:VAL:CG2	2.29	0.62
24:BA:2122:U:C4'	26:BC:166:ASP:HB2	2.27	0.62
46:BY:8:TYR:CD1	46:BY:8:TYR:N	2.64	0.62
2:A1:8:U:H1'	4:AE:15:VAL:HG12	1.81	0.62
1:AA:1187:G:H2'	1:AA:1188:A:H8	1.65	0.62
1:AA:1210:C:O3'	1:AA:1214:C:N4	2.32	0.62
1:AA:1394:A:HO2'	1:AA:1395:C:P	2.22	0.62
1:AA:1425:U:O2'	1:AA:1426:C:H5'	1.97	0.62
1:AA:527:G:C2	1:AA:528:C:C2	2.88	0.62
4:AE:158:LEU:HB2	4:AE:160:ASP:OD2	1.99	0.62
4:AE:200:ILE:O	4:AE:202:PRO:CD	2.47	0.62
4:AE:224:GLN:HA	4:AE:229:VAL:HG22	1.81	0.62
5:AF:178:LEU:O	5:AF:179:ARG:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:17:ASP:HB3	5:AF:18:TRP:CE3	2.32	0.62
5:AF:196:LEU:HD23	5:AF:196:LEU:N	2.14	0.62
5:AF:67:THR:HG22	5:AF:104:GLN:CG	2.24	0.62
1:AA:404:U:C4'	6:AG:122:ARG:NH1	2.62	0.62
6:AG:162:LEU:CD1	6:AG:181:MET:HG2	2.25	0.62
7:AH:86:ALA:O	7:AH:125:SER:CB	2.47	0.62
8:AI:72:VAL:HG23	8:AI:73:ASN:N	2.11	0.62
9:AJ:99:LEU:HD23	9:AJ:102:ARG:HB3	1.80	0.62
10:AK:11:THR:O	10:AK:13:ILE:N	2.33	0.62
12:AM:6:ILE:HG22	12:AM:98:ILE:HA	1.81	0.62
13:AN:126:ARG:C	13:AN:128:ALA:H	2.02	0.62
13:AN:73:MET:O	13:AN:75:TYR:N	2.32	0.62
13:AN:78:GLN:O	13:AN:103:LEU:O	2.16	0.62
13:AN:79:SER:HA	13:AN:104:GLN:HG3	1.82	0.62
15:AP:10:PRO:CG	15:AP:18:ALA:HB1	2.28	0.62
15:AP:3:ARG:NH1	30:BG:113:ARG:O	2.33	0.62
17:AR:5:LYS:HB2	17:AR:5:LYS:HZ2	1.62	0.62
19:AT:104:LYS:HD3	19:AT:105:ALA:HB3	1.82	0.62
19:AT:21:VAL:CG2	19:AT:43:LEU:HA	2.29	0.62
19:AT:76:LEU:HD23	19:AT:76:LEU:C	2.19	0.62
20:AU:21:LYS:CE	20:AU:23:LYS:HB3	2.28	0.62
21:AV:18:LYS:CE	21:AV:18:LYS:HA	2.22	0.62
22:AW:48:LYS:HB3	22:AW:51:GLU:HG3	1.81	0.62
49:B2:6:VAL:HB	49:B2:54:VAL:HG21	1.81	0.62
50:B3:48:ARG:N	50:B3:52:THR:OG1	2.31	0.62
51:B4:12:SER:HB3	51:B4:14:ALA:HB3	1.82	0.62
51:B4:51:TYR:HD1	51:B4:55:ARG:N	1.97	0.62
53:B6:36:GLN:NE2	53:B6:36:GLN:HA	2.14	0.62
24:BA:458:G:H2'	53:B6:40:TRP:NE1	2.15	0.62
53:B6:8:ASN:O	53:B6:9:ARG:C	2.37	0.62
24:BA:1000:A:H61	24:BA:1155:A:C5'	2.12	0.62
24:BA:1241:A:C4	24:BA:1241:A:H5''	2.28	0.62
24:BA:1249:U:N3	36:BO:21:ARG:NH1	2.47	0.62
24:BA:1342:A:C2'	24:BA:1345:C:N4	2.52	0.62
24:BA:1299:G:N1	24:BA:1639:U:H3'	2.13	0.62
24:BA:1797:C:H2'	24:BA:1798:U:H6	1.63	0.62
24:BA:1799:G:O2'	24:BA:1800:C:O5'	2.17	0.62
24:BA:2009:G:C6	24:BA:2010:G:N7	2.66	0.62
24:BA:2063:C:H3'	24:BA:2064:C:C5'	2.21	0.62
24:BA:233:A:H2'	24:BA:234:C:C5'	2.29	0.62
24:BA:2530:A:C2'	24:BA:2531:A:H5''	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2537:U:H2'	24:BA:2538:C:C5	2.34	0.62
24:BA:2620:C:OP1	28:BE:153:GLY:HA2	1.98	0.62
24:BA:2644:G:N1	24:BA:2645:G:N2	2.47	0.62
24:BA:220:G:H21	24:BA:265:A:N6	1.97	0.62
24:BA:270(C):C:OP2	24:BA:365:C:O2'	2.16	0.62
24:BA:270(I):G:H2'	24:BA:270(J):G:O4'	1.99	0.62
24:BA:321:G:H4'	29:BF:165:ARG:O	1.98	0.62
24:BA:295:G:C1'	24:BA:345:A:H2	2.12	0.62
24:BA:498:G:H2'	24:BA:499:U:H5'	1.81	0.62
24:BA:514:A:H2	24:BA:515:A:C1'	2.11	0.62
24:BA:520:G:O2'	24:BA:521:G:H5'	2.00	0.62
24:BA:592:G:H3'	24:BA:593:G:O4'	1.98	0.62
24:BA:702:G:C2	24:BA:731:C:N3	2.67	0.62
24:BA:989:G:H2'	24:BA:990:A:OP2	1.99	0.62
25:BB:57:A:C8	25:BB:57:A:H3'	2.34	0.62
25:BB:77:U:OP1	46:BY:19:ARG:NH1	2.32	0.62
24:BA:2571:C:C1'	28:BE:146:THR:HG23	2.28	0.62
28:BE:151:TYR:CE1	28:BE:153:GLY:N	2.67	0.62
29:BF:34:TRP:O	29:BF:37:VAL:HB	1.99	0.62
30:BG:120:LEU:CD2	30:BG:181:ARG:HG2	2.29	0.62
31:BH:127:GLU:CB	31:BH:130:ARG:H	2.13	0.62
31:BH:127:GLU:HG3	31:BH:130:ARG:CB	2.28	0.62
31:BH:84:SER:CA	31:BH:134:SER:HA	2.25	0.62
32:BK:21:VAL:O	32:BK:26:ALA:N	2.31	0.62
32:BK:9:LEU:HB2	32:BK:13:GLY:C	2.19	0.62
33:BL:111:LYS:O	33:BL:113:PRO:HD2	1.99	0.62
33:BL:115:LEU:CD1	33:BL:118:THR:HA	2.30	0.62
34:BM:22:THR:HG22	34:BM:61:ARG:CZ	2.29	0.62
34:BM:95:PRO:HA	34:BM:98:VAL:CG2	2.29	0.62
37:BP:116:GLU:O	37:BP:119:ARG:HB2	2.00	0.62
43:BV:13:SER:C	43:BV:16:LYS:HZ3	2.02	0.62
45:BX:7:VAL:HG22	45:BX:71:LYS:CG	2.28	0.62
45:BX:96:ILE:HD12	45:BX:96:ILE:N	2.14	0.62
46:BY:73:GLN:O	46:BY:87:ASP:CB	2.48	0.62
25:BB:12:C:H5"	47:BZ:74:ARG:CG	2.27	0.62
32:BK:101:LEU:HD23	32:BK:101:LEU:H	1.64	0.62
32:BK:87:LYS:HG2	32:BK:121:LYS:C	2.19	0.62
26:BC:86:ALA:CB	26:BC:149:ILE:HG12	2.29	0.62
26:BC:175:VAL:HA	26:BC:188:ASN:HD22	1.62	0.62
26:BC:54:SER:HA	26:BC:57:ASN:HD22	1.64	0.62
33:BL:98:ARG:NH1	33:BL:139:VAL:HG21	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:727:G:C8	1:AA:727:G:C3'	2.82	0.62
26:BC:71:GLN:HG3	26:BC:72:VAL:N	2.13	0.62
1:AA:177:C:N3	1:AA:178:C:C5	2.68	0.62
1:AA:438:G:H2'	1:AA:494:U:O4	1.98	0.62
1:AA:520:A:N6	1:AA:529:G:C2	2.67	0.62
1:AA:710:G:O2'	1:AA:711:G:H5'	1.99	0.62
1:AA:851:G:C2	1:AA:852:G:H1'	2.35	0.62
1:AA:86:U:H2'	1:AA:87:A:H5'	1.82	0.62
3:AC:30:G:H2'	3:AC:31:A:O4'	1.99	0.62
4:AE:115:LEU:HB2	4:AE:145:LEU:CD2	2.30	0.62
4:AE:91:PRO:CG	4:AE:154:LEU:HB3	2.22	0.62
6:AG:146:ILE:H	6:AG:146:ILE:HD12	1.64	0.62
6:AG:61:LYS:CA	6:AG:203:VAL:HG22	2.29	0.62
6:AG:8:VAL:CG1	6:AG:11:LEU:HD12	2.29	0.62
8:AI:52:ILE:HG21	8:AI:87:ARG:CZ	2.30	0.62
1:AA:826:C:H5'	10:AK:12:ARG:NE	2.15	0.62
10:AK:79:VAL:HB	10:AK:80:ILE:HD12	1.80	0.62
10:AK:87:SER:HB3	10:AK:93:VAL:HG23	1.81	0.62
11:AL:97:LYS:HZ2	11:AL:102:LEU:HB3	1.64	0.62
11:AL:26:VAL:HG22	11:AL:61:ALA:HB3	1.81	0.62
12:AM:31:GLY:HA3	12:AM:74:ILE:CG2	2.29	0.62
12:AM:60:ARG:CZ	12:AM:60:ARG:HB2	2.29	0.62
12:AM:79:ARG:NH1	12:AM:82:ILE:HB	2.14	0.62
13:AN:92:GLU:O	13:AN:94:ALA:N	2.32	0.62
14:AO:33:ARG:CG	14:AO:60:LEU:HD23	2.29	0.62
1:AA:1329:A:C5'	15:AP:29:ARG:NE	2.63	0.62
15:AP:60:VAL:HG13	15:AP:64:TRP:HB2	1.80	0.62
16:AQ:48:ALA:CA	16:AQ:53:LEU:HD12	2.29	0.62
18:AS:53:VAL:HG23	18:AS:54:GLU:N	2.14	0.62
1:AA:375:U:O2'	18:AS:6:LEU:CD2	2.48	0.62
8:AI:46:ARG:HH22	20:AU:37:VAL:HG22	1.64	0.62
50:B3:33:VAL:HG12	50:B3:35:VAL:HG23	1.82	0.62
52:B5:45:LYS:O	52:B5:46:HIS:HB3	1.98	0.62
54:B7:9:GLY:O	54:B7:14:VAL:HB	1.98	0.62
54:B7:49:VAL:O	54:B7:53:PRO:CG	2.47	0.62
24:BA:1075:C:O2'	33:BL:90:LYS:NZ	2.31	0.62
24:BA:1223:C:C2	24:BA:1227:A:C2	2.87	0.62
24:BA:1449:A:C8	24:BA:1529:A:N1	2.67	0.62
24:BA:1528:A:C8	24:BA:1529:A:C2	2.87	0.62
24:BA:1798:U:H5'	24:BA:1803:A:H4'	1.81	0.62
24:BA:1824:G:C2	24:BA:1825:A:H1'	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1916:A:C2	24:BA:1917:U:O4	2.52	0.62
24:BA:1925:C:O2'	24:BA:1926:U:H5'	1.99	0.62
24:BA:2046:G:OP1	51:B4:18:ALA:C	2.38	0.62
24:BA:213:A:C2'	24:BA:214:G:H5'	2.29	0.62
24:BA:2392:A:H2'	24:BA:2393:A:C5'	2.29	0.62
24:BA:2413:G:C2	24:BA:2414:G:H1'	2.34	0.62
24:BA:2482:G:H2'	24:BA:2483:C:H5'	1.81	0.62
24:BA:2519:U:C5'	24:BA:2520:C:OP1	2.46	0.62
24:BA:2533:A:H2'	24:BA:2534:A:C8	2.33	0.62
24:BA:2654:A:H4'	24:BA:2656:U:H5	1.64	0.62
24:BA:270(E):G:H2'	24:BA:270(F):U:C6	2.34	0.62
24:BA:2720:U:C2	24:BA:2721:A:C8	2.87	0.62
24:BA:270(X):G:H4'	24:BA:272:G:O3'	1.99	0.62
24:BA:593:G:C6	24:BA:594:U:C4	2.87	0.62
24:BA:5:A:H2'	24:BA:6:A:H8	1.63	0.62
24:BA:637:A:H2	24:BA:651:G:C5'	2.13	0.62
24:BA:669:G:N3	24:BA:669:G:C2'	2.59	0.62
24:BA:685:A:O4'	24:BA:774:A:N6	2.32	0.62
24:BA:729:G:OP1	27:BD:13:ARG:NH1	2.30	0.62
24:BA:915:C:H2'	24:BA:916:G:C8	2.33	0.62
24:BA:942:G:H5'	36:BO:32:THR:CG2	2.29	0.62
25:BB:100:G:C4	25:BB:101:A:N7	2.68	0.62
25:BB:25:A:H2'	25:BB:26:A:O4'	1.98	0.62
25:BB:76:G:P	46:BY:11:GLU:HA	2.39	0.62
24:BA:1971:A:C2	27:BD:239:ARG:HA	2.34	0.62
27:BD:8:PRO:O	27:BD:25:THR:HG23	2.00	0.62
27:BD:267:SER:O	27:BD:268:ARG:O	2.18	0.62
27:BD:5:LYS:CB	27:BD:82:ILE:HD12	2.29	0.62
28:BE:119:ARG:NH2	28:BE:155:LYS:HB3	2.13	0.62
30:BG:107:LEU:CD2	30:BG:173:LEU:HD21	2.29	0.62
30:BG:173:LEU:HG	30:BG:173:LEU:O	1.98	0.62
32:BK:38:LEU:HD22	32:BK:39:ALA:H	1.63	0.62
24:BA:244:A:O3'	36:BO:65:ARG:NH2	2.32	0.62
37:BP:11:LYS:HZ3	37:BP:73:PRO:HG3	1.64	0.62
38:BQ:102:GLU:CG	38:BQ:103:ARG:N	2.62	0.62
39:BR:39:ILE:O	39:BR:47:THR:HG23	2.00	0.62
40:BS:28:VAL:HG13	40:BS:92:GLY:CA	2.29	0.62
42:BU:36:PRO:CA	42:BU:60:GLU:O	2.43	0.62
43:BV:74:ALA:HB1	43:BV:105:VAL:HA	1.80	0.62
45:BX:1:MET:HG3	45:BX:67:LEU:HD22	1.80	0.62
45:BX:19:LYS:HB3	45:BX:21:LYS:HG2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:40:GLU:C	45:BX:62:GLU:OE2	2.37	0.62
45:BX:95:LYS:HG3	45:BX:103:GLY:HA2	1.81	0.62
46:BY:39:VAL:HG13	46:BY:44:PHE:CE2	2.34	0.62
46:BY:94:GLU:N	46:BY:95:PRO:HD3	1.97	0.62
26:BC:10:LEU:HD13	26:BC:32:LEU:O	1.98	0.62
26:BC:161:ILE:CG2	26:BC:174:PRO:HG2	2.29	0.62
26:BC:62:VAL:CB	26:BC:195:ALA:HB2	2.29	0.62
24:BA:182:A:C2	24:BA:183:C:C2	2.87	0.62
24:BA:363(D):G:O2'	24:BA:363(E):U:H5'	2.00	0.62
1:AA:1021:G:H2'	1:AA:1022:G:O4'	2.00	0.62
1:AA:1194:U:H2'	1:AA:1195:C:O4'	1.99	0.62
1:AA:1271:G:OP1	1:AA:1314:C:C5'	2.45	0.62
1:AA:68:G:O4'	1:AA:171:A:H1'	1.99	0.62
1:AA:228:A:H2'	1:AA:229:U:C5'	2.28	0.62
1:AA:257:G:O2'	1:AA:258:G:H5'	1.99	0.62
1:AA:373:A:O2'	1:AA:374:A:H5'	1.99	0.62
1:AA:376:G:H2'	1:AA:377:G:C8	2.26	0.62
1:AA:376:G:H5''	18:AS:5:ARG:HD2	1.80	0.62
1:AA:523:A:H8	1:AA:523:A:O5'	1.81	0.62
1:AA:56:U:H2'	1:AA:57:G:H8	1.64	0.62
1:AA:873:A:OP1	1:AA:873:A:C8	2.52	0.62
3:AB:10:G:H2'	3:AB:11:C:C6	2.33	0.62
3:AD:3:C:H2'	3:AD:4:C:H6	1.62	0.62
4:AE:101:MET:HB3	4:AE:108:ILE:HG13	1.80	0.62
4:AE:132:LYS:HZ2	4:AE:132:LYS:HB3	1.65	0.62
4:AE:118:LEU:HD22	4:AE:142:LEU:HD12	1.82	0.62
5:AF:10:PHE:HB3	5:AF:11:ARG:HE	1.64	0.62
6:AG:102:ASP:HB2	6:AG:136:PRO:C	2.19	0.62
6:AG:170:VAL:N	6:AG:176:LEU:HD22	2.10	0.62
6:AG:196:LEU:O	6:AG:196:LEU:HD12	2.00	0.62
6:AG:26:CYS:O	6:AG:31:CYS:SG	2.57	0.62
8:AI:44:GLY:HA2	8:AI:59:TYR:CZ	2.34	0.62
8:AI:94:GLN:HB3	20:AU:32:ARG:NH2	2.14	0.62
1:AA:933:G:N7	9:AJ:3:ARG:NH2	2.46	0.62
9:AJ:5:ARG:HD2	9:AJ:5:ARG:C	2.20	0.62
12:AM:75:ILE:HG22	12:AM:76:ASN:H	1.64	0.62
16:AQ:27:CYS:H	16:AQ:43:CYS:CB	2.11	0.62
1:AA:127:G:HO2'	19:AT:2:PRO:N	1.97	0.62
19:AT:80:GLY:O	19:AT:82:MET:N	2.32	0.62
23:AX:9:ARG:NH1	23:AX:21:TYR:HD2	1.96	0.62
48:B1:20:VAL:HG22	48:B1:24:LYS:HE3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:35:VAL:HG12	50:B3:36:CYS:N	2.14	0.62
24:BA:2284:C:H5''	52:B5:9:LEU:HD21	1.81	0.62
53:B6:8:ASN:ND2	53:B6:10:ARG:HB2	2.14	0.62
24:BA:666:G:H5'	54:B7:59:LYS:HZ1	1.63	0.62
55:B8:20:HIS:O	55:B8:22:ARG:HG2	1.99	0.62
24:BA:1020:A:H5''	24:BA:1021:A:OP1	1.99	0.62
24:BA:1079:C:HO2'	24:BA:1080:C:H5'	1.65	0.62
24:BA:1131:G:N2	34:BM:72:TYR:HE1	1.97	0.62
24:BA:1130:U:O2'	24:BA:1131:G:OP1	2.18	0.62
24:BA:1195:G:H2'	24:BA:1226:G:N2	2.14	0.62
24:BA:1213:A:H1'	24:BA:1238:G:H1'	1.80	0.62
24:BA:13:A:H61	24:BA:525:U:H2'	1.63	0.62
24:BA:1429:G:H3'	24:BA:1430:C:C6	2.32	0.62
24:BA:1471:A:H2'	24:BA:1472:A:C5'	2.29	0.62
24:BA:1602:U:H2'	24:BA:1603:A:C5'	2.28	0.62
24:BA:1689:A:N7	24:BA:1700:A:C5	2.67	0.62
24:BA:1848:A:H2'	24:BA:1849:G:O4'	1.99	0.62
24:BA:197:A:C2	24:BA:198:C:C1'	2.82	0.62
24:BA:858:U:HO2'	24:BA:2268:A:H2'	1.63	0.62
24:BA:570:G:H22	24:BA:2498:C:C1'	2.12	0.62
24:BA:2499:C:O2	24:BA:2499:C:H2'	1.98	0.62
24:BA:2653:U:H3'	24:BA:2654:A:C8	2.34	0.62
24:BA:2720:U:H2'	24:BA:2721:A:H8	1.65	0.62
24:BA:2043:C:C4	24:BA:2777:G:N3	2.67	0.62
24:BA:270(C):C:OP1	24:BA:365:C:H1'	1.99	0.62
24:BA:247:G:HO2'	24:BA:386:G:H1	1.43	0.62
24:BA:404:C:H5'	24:BA:406:G:C1'	2.28	0.62
24:BA:460:A:H2'	24:BA:461:C:C6	2.33	0.62
24:BA:541:C:C2	24:BA:542:C:C5	2.86	0.62
24:BA:565:C:O2'	24:BA:1252:G:N7	2.33	0.62
24:BA:744:G:N2	24:BA:754:C:C2	2.67	0.62
24:BA:798:G:OP1	29:BF:58:ALA:O	2.18	0.62
24:BA:808:G:H2'	24:BA:809:G:O4'	1.99	0.62
24:BA:942:G:C2	24:BA:943:U:N3	2.67	0.62
24:BA:949:C:C2	24:BA:950:G:C8	2.88	0.62
24:BA:987:G:OP2	49:B2:13:ILE:CD1	2.47	0.62
25:BB:14:U:H1'	25:BB:107:U:O4'	2.00	0.62
25:BB:117:G:H2'	25:BB:117:G:N3	2.13	0.62
27:BD:177:LEU:O	27:BD:178:PRO:C	2.38	0.62
27:BD:259:THR:CG2	27:BD:260:ARG:HH12	2.13	0.62
28:BE:13:ARG:HD2	28:BE:20:ALA:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:53:PRO:HG3	28:BE:75:VAL:HG21	1.81	0.62
29:BF:183:VAL:CA	29:BF:186:ILE:HD12	2.25	0.62
29:BF:74:ARG:CD	29:BF:75:HIS:H	2.12	0.62
30:BG:134:GLY:O	30:BG:155:MET:O	2.17	0.62
30:BG:47:LYS:HD3	30:BG:72:ARG:O	1.99	0.62
30:BG:68:PRO:HG3	30:BG:90:LEU:CD2	2.29	0.62
31:BH:127:GLU:CG	31:BH:130:ARG:HB2	2.29	0.62
31:BH:13:LYS:HG3	31:BH:15:VAL:N	2.14	0.62
31:BH:44:VAL:O	31:BH:50:VAL:HA	2.00	0.62
31:BH:7:LEU:N	31:BH:7:LEU:HD23	2.14	0.62
31:BH:84:SER:HA	31:BH:134:SER:CA	2.25	0.62
34:BM:12:ARG:HD2	34:BM:50:ASP:HA	1.81	0.62
35:BN:35:VAL:CA	35:BN:61:VAL:HG11	2.29	0.62
36:BO:122:PRO:HB3	36:BO:134:ALA:O	2.00	0.62
38:BQ:93:GLY:C	38:BQ:95:THR:H	2.03	0.62
41:BT:97:ASP:HB3	41:BT:101:ARG:CZ	2.28	0.62
41:BT:47:TYR:O	41:BT:51:LYS:HG3	1.99	0.62
41:BT:45:TYR:C	41:BT:49:HIS:ND1	2.53	0.62
41:BT:83:LEU:O	41:BT:90:VAL:HG22	1.98	0.62
42:BU:69:LYS:HE2	42:BU:70:ILE:HD11	1.79	0.62
42:BU:67:GLY:N	42:BU:94:LEU:HA	2.15	0.62
45:BX:26:LYS:O	45:BX:27:VAL:HG23	1.97	0.62
45:BX:83:THR:O	45:BX:94:LYS:HA	2.00	0.62
46:BY:48:PHE:CB	46:BY:54:HIS:HE1	2.13	0.62
24:BA:1418:G:H5'	24:BA:1587:A:O2'	2.00	0.62
17:AR:45:VAL:O	17:AR:45:VAL:HG12	1.99	0.62
1:AA:116:A:H8	1:AA:116:A:O5'	1.83	0.62
1:AA:1193:G:H2'	1:AA:1194:U:O5'	1.99	0.62
1:AA:971:G:P	1:AA:1231:G:H21	2.23	0.62
1:AA:1278:U:OP1	1:AA:1279:A:H4'	1.99	0.62
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.64	0.62
1:AA:1357:A:O5'	1:AA:1357:A:H8	1.83	0.62
1:AA:255:G:C4'	19:AT:16:GLN:O	2.44	0.62
1:AA:301:G:N2	1:AA:302:G:C4	2.67	0.62
1:AA:607:A:O2'	1:AA:608:A:H5'	1.99	0.62
1:AA:706:A:H4'	13:AN:29:ILE:CD1	2.30	0.62
1:AA:937:A:N7	1:AA:938:A:N7	2.48	0.62
3:AB:34:G:N2	3:AB:35:A:H1'	2.15	0.62
3:AC:36:A:H61	3:AC:37:A:N6	1.98	0.62
4:AE:10:LEU:HD23	4:AE:11:LEU:HD21	1.81	0.62
4:AE:53:ARG:HH12	4:AE:200:ILE:CD1	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:78:GLN:HE22	4:AE:96:ARG:HH22	1.43	0.62
4:AE:96:ARG:HD2	4:AE:96:ARG:H	1.64	0.62
5:AF:23:TYR:CD2	5:AF:24:ALA:N	2.64	0.62
6:AG:100:ARG:HB2	6:AG:103:ASN:HB2	1.82	0.62
6:AG:92:VAL:HG12	6:AG:96:LEU:HD11	1.81	0.62
7:AH:87:SER:HB3	7:AH:131:ILE:HG12	1.81	0.62
10:AK:112:LEU:HB2	10:AK:132:GLU:O	1.99	0.62
4:AE:196:LEU:HA	10:AK:74:PRO:HG3	1.82	0.62
13:AN:48:ILE:HD11	13:AN:64:ALA:CB	2.29	0.62
14:AO:24:VAL:HG23	14:AO:97:ARG:CG	2.24	0.62
1:AA:362:G:H4'	14:AO:28:LYS:HZ1	1.65	0.62
1:AA:1228:C:OP1	15:AP:115:LYS:N	2.32	0.62
15:AP:20:THR:HA	15:AP:25:ILE:CG2	2.30	0.62
15:AP:62:ASN:C	15:AP:64:TRP:H	2.02	0.62
11:AL:111:ARG:HD2	16:AQ:61:TRP:HE1	1.65	0.62
1:AA:273:A:H1'	19:AT:16:GLN:OE1	2.00	0.62
19:AT:97:SER:O	19:AT:98:LEU:HD13	1.98	0.62
20:AU:51:LEU:N	20:AU:51:LEU:CD1	2.63	0.62
21:AV:33:THR:CG2	21:AV:49:ILE:HD12	2.30	0.62
50:B3:14:ILE:HB	50:B3:37:SER:O	1.99	0.62
24:BA:1025:G:N3	24:BA:1025:G:C2'	2.63	0.62
24:BA:1072:C:H2'	24:BA:1093:G:C5	2.35	0.62
24:BA:1131:G:O2'	24:BA:1132:A:O5'	2.10	0.62
24:BA:1351:C:H4'	24:BA:1571:A:O2'	1.98	0.62
24:BA:1363:C:O3'	24:BA:1809:A:N6	2.32	0.62
24:BA:1669:A:N1	24:BA:1994:C:H1'	2.14	0.62
24:BA:200:U:H3'	24:BA:201:C:H5'	1.82	0.62
24:BA:2245:U:O2	24:BA:2435:A:C8	2.53	0.62
24:BA:2484:G:N2	37:BP:124:LYS:HD2	2.15	0.62
24:BA:2044:C:C6	24:BA:2625:G:N2	2.67	0.62
24:BA:262:A:O2'	24:BA:263:C:H5'	1.99	0.62
24:BA:220:G:N2	24:BA:265:A:N6	2.47	0.62
24:BA:269:U:H3'	24:BA:270(Y):G:O2'	1.99	0.62
24:BA:2732:G:H3'	24:BA:2733:A:H5'	1.81	0.62
24:BA:2733:A:C8	24:BA:2734:A:C8	2.88	0.62
24:BA:2781:A:H2'	24:BA:2782:G:C2'	2.29	0.62
24:BA:2876:G:OP1	40:BS:2:ASN:CB	2.48	0.62
24:BA:290:G:C8	24:BA:290:G:H3'	2.34	0.62
24:BA:341:G:H2'	24:BA:342:G:C8	2.34	0.62
24:BA:493:G:N2	24:BA:494:G:H1'	2.14	0.62
24:BA:607:U:C2	24:BA:608:A:C8	2.87	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:74:U:H2'	25:BB:75:G:H1'	1.80	0.62
25:BB:77:U:H6	25:BB:77:U:H3'	1.64	0.62
27:BD:137:PRO:HG2	27:BD:140:THR:OG1	1.98	0.62
27:BD:159:ALA:HB3	27:BD:202:LYS:HZ1	1.63	0.62
28:BE:101:ARG:NH2	28:BE:171:GLU:HG2	2.11	0.62
28:BE:102:VAL:CA	28:BE:200:GLU:OE1	2.47	0.62
29:BF:43:LYS:HG3	29:BF:98:SER:HA	1.80	0.62
30:BG:90:LEU:O	30:BG:90:LEU:HD13	1.99	0.62
34:BM:37:LYS:HA	34:BM:42:TRP:CB	2.28	0.62
35:BN:11:ALA:HB3	35:BN:97:ARG:HH22	1.64	0.62
35:BN:13:ASN:O	35:BN:13:ASN:OD1	2.16	0.62
35:BN:64:ARG:CZ	35:BN:66:LYS:H	2.13	0.62
24:BA:2484:G:N3	37:BP:124:LYS:HE2	2.14	0.62
37:BP:99:PRO:HD2	37:BP:101:ARG:NE	2.15	0.62
38:BQ:61:HIS:CE1	38:BQ:64:ARG:NE	2.68	0.62
39:BR:94:TYR:C	39:BR:99:LYS:HB2	2.18	0.62
40:BS:17:THR:C	40:BS:19:LEU:H	2.00	0.62
40:BS:63:VAL:O	40:BS:64:ARG:NH1	2.32	0.62
41:BT:8:VAL:HG23	41:BT:9:VAL:HG23	1.82	0.62
42:BU:40:LEU:HG	42:BU:55:ALA:CA	2.29	0.62
41:BT:112:ARG:NH1	42:BU:50:PRO:CG	2.54	0.62
42:BU:7:THR:HG23	42:BU:11:GLN:NE2	2.15	0.62
43:BV:29:LEU:O	43:BV:33:ARG:CB	2.44	0.62
43:BV:33:ARG:HD3	43:BV:37:ARG:CD	2.30	0.62
24:BA:338:G:OP1	45:BX:2:ARG:CZ	2.48	0.62
45:BX:47:LYS:O	45:BX:48:ALA:CB	2.48	0.62
45:BX:83:THR:HG22	45:BX:84:ARG:N	2.13	0.62
32:BK:77:LEU:CD1	32:BK:142:VAL:HG13	2.22	0.62
3:AD:18:G:N3	3:AD:19:G:H1'	2.15	0.62
24:BA:80:G:H1'	24:BA:347:A:H61	1.64	0.62
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.81	0.62
1:AA:1296:C:C1'	1:AA:1302:U:O4	2.47	0.62
1:AA:1299:A:C5	1:AA:1301:U:H1'	2.34	0.62
1:AA:1315:U:H2'	1:AA:1316:G:O4'	2.00	0.62
1:AA:279:A:N3	1:AA:281:G:N2	2.48	0.62
1:AA:59:A:H4'	1:AA:388:G:H5''	1.80	0.62
1:AA:541:G:H4'	6:AG:42:GLN:CB	2.30	0.62
1:AA:645:C:H2'	1:AA:646:U:C6	2.34	0.62
1:AA:851:G:O2'	1:AA:852:G:H5'	1.99	0.62
1:AA:859:A:H2'	1:AA:860:A:O5'	2.00	0.62
1:AA:96:G:H2'	1:AA:97:U:H6	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:66:U:H3'	3:AC:67:C:H6	1.63	0.62
3:AC:6:G:C2'	3:AC:7:A:C8	2.77	0.62
4:AE:17:PHE:HA	4:AE:42:ILE:HG22	1.80	0.62
4:AE:47:THR:O	4:AE:51:LEU:CG	2.45	0.62
4:AE:97:TRP:CH2	4:AE:176:GLU:CG	2.83	0.62
1:AA:1107:C:P	5:AF:172:ARG:HG2	2.39	0.62
8:AI:52:ILE:HG22	8:AI:53:ALA:H	1.63	0.62
9:AJ:72:ARG:NH2	9:AJ:138:LYS:HZ3	1.95	0.62
10:AK:113:SER:O	10:AK:131:GLY:HA3	2.00	0.62
12:AM:10:GLY:CA	12:AM:94:VAL:HG22	2.29	0.62
13:AN:53:SER:O	13:AN:55:LYS:N	2.32	0.62
13:AN:27:ASN:HA	13:AN:55:LYS:O	2.00	0.62
13:AN:57:THR:CG2	13:AN:59:TYR:HB3	2.29	0.62
1:AA:523:A:N6	14:AO:53:ARG:HH22	1.96	0.62
18:AS:3:LYS:HE2	18:AS:24:ALA:CB	2.28	0.62
1:AA:237:C:H5''	19:AT:25:ARG:NH1	2.14	0.62
19:AT:75:ARG:HG2	19:AT:76:LEU:N	2.14	0.62
20:AU:21:LYS:HD2	20:AU:23:LYS:H	1.65	0.62
21:AV:38:SER:HB3	21:AV:71:LEU:CG	2.29	0.62
21:AV:11:VAL:HG11	21:AV:41:VAL:CG2	2.29	0.62
21:AV:19:VAL:HG21	21:AV:44:MET:HG2	1.82	0.62
52:B5:19:ARG:H	52:B5:19:ARG:CD	2.11	0.62
24:BA:1619:G:C2	53:B6:3:ARG:NH1	2.68	0.62
24:BA:1027:A:H2'	24:BA:1028:A:H8	1.64	0.62
24:BA:1036:G:C2	24:BA:1120:G:C6	2.88	0.62
24:BA:1355:G:C2	24:BA:1377:G:N3	2.68	0.62
24:BA:1424:G:C8	24:BA:1424:G:OP2	2.52	0.62
24:BA:1457:A:C2'	24:BA:1458:C:H5'	2.30	0.62
24:BA:1463:C:C2'	24:BA:1464:C:O5'	2.47	0.62
24:BA:1559:G:H1	24:BA:1560:G:C4'	2.09	0.62
24:BA:1943:U:H4'	24:BA:1944:U:H5'	1.82	0.62
24:BA:2093:G:H2'	24:BA:2094:G:O5'	1.99	0.62
24:BA:2244:U:C2'	24:BA:2245:U:O5'	2.47	0.62
24:BA:2332:U:O2'	24:BA:2336:A:N7	2.31	0.62
24:BA:2415:G:C6	24:BA:2416:C:N4	2.67	0.62
24:BA:2538:C:H2'	24:BA:2539:C:H6	1.61	0.62
24:BA:2569:G:C6	24:BA:2570:G:N7	2.67	0.62
24:BA:263:C:C2'	24:BA:263:C:O2	2.48	0.62
24:BA:2747:G:O6	24:BA:2755:C:C5'	2.46	0.62
24:BA:572:A:C5	24:BA:573:G:C2	2.87	0.62
24:BA:811:U:O2'	24:BA:1251:C:Cl'	2.41	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:82:G:N2	24:BA:83:G:N2	2.48	0.62
24:BA:919:G:H4'	25:BB:81:G:O2'	2.00	0.62
24:BA:966:G:C1'	24:BA:2267:A:H61	2.13	0.62
25:BB:115:G:OP2	25:BB:115:G:H8	1.82	0.62
25:BB:44:G:O2'	25:BB:47:C:N4	2.33	0.62
27:BD:127:VAL:HA	27:BD:193:VAL:CG1	2.16	0.62
27:BD:76:PRO:HG2	27:BD:98:VAL:CG2	2.23	0.62
27:BD:89:SER:OG	27:BD:159:ALA:N	2.33	0.62
27:BD:7:LYS:HD2	27:BD:91:ARG:HE	1.64	0.62
27:BD:94:LEU:HD22	27:BD:104:TYR:CE1	2.33	0.62
28:BE:41:LYS:C	28:BE:43:GLY:N	2.52	0.62
30:BG:55:LYS:CG	30:BG:148:MET:HB2	2.30	0.62
30:BG:75:LYS:HZ3	30:BG:87:PRO:HD3	1.64	0.62
25:BB:45:A:H1'	30:BG:95:ARG:NH1	2.15	0.62
31:BH:25:LYS:HD3	31:BH:27:LYS:CD	2.30	0.62
33:BL:17:ALA:O	33:BL:38:VAL:HG11	2.00	0.62
34:BM:55:VAL:HG13	34:BM:56:ASN:N	2.13	0.62
34:BM:23:LEU:HD12	34:BM:63:THR:H	1.60	0.62
34:BM:76:SER:C	34:BM:78:TYR:N	2.53	0.62
35:BN:18:LYS:NZ	35:BN:44:LYS:HD3	2.14	0.62
37:BP:111:GLU:C	37:BP:113:GLN:H	2.01	0.62
39:BR:67:ARG:NH2	39:BR:67:ARG:HG2	2.09	0.62
40:BS:104:ASN:CA	40:BS:107:ASP:OD2	2.47	0.62
40:BS:93:ARG:HG2	40:BS:95:ARG:NH1	2.14	0.62
41:BT:105:VAL:O	41:BT:109:LEU:CG	2.40	0.62
41:BT:8:VAL:N	41:BT:11:ARG:HH21	1.98	0.62
32:BK:113:ARG:O	32:BK:114:LEU:HD23	1.99	0.62
32:BK:77:LEU:HD21	32:BK:140:LEU:HD23	1.82	0.62
32:BK:77:LEU:HB2	32:BK:142:VAL:HG13	1.80	0.62
26:BC:162:GLU:C	26:BC:163:PHE:CD2	2.66	0.62
26:BC:59:ARG:NH1	26:BC:164:ARG:HH11	1.97	0.62
26:BC:29:VAL:HG13	26:BC:30:LYS:N	2.13	0.62
26:BC:75:LEU:HD11	26:BC:99:ILE:CG2	2.26	0.62
45:BX:42:VAL:HG23	45:BX:61:ILE:HG21	1.79	0.62
39:BR:54:LEU:HG	39:BR:56:LEU:CD2	2.27	0.62
25:BB:35:U:C2'	25:BB:35:U:O2	2.48	0.62
1:AA:511:C:C2	1:AA:512:U:C5	2.88	0.62
24:BA:492:A:C8	24:BA:492:A:OP2	2.53	0.62
25:BB:0:A:C5'	25:BB:0:A:N3	2.63	0.62
22:AW:8:ARG:HB3	22:AW:8:ARG:NH1	2.14	0.62
24:BA:1563:G:H2'	24:BA:1564:C:H6	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.64	0.62
1:AA:1252:A:C5	1:AA:1253:G:N7	2.67	0.62
1:AA:363:A:C5	14:AO:31:PRO:HD2	2.35	0.62
1:AA:37:U:P	14:AO:123:LYS:HD2	2.40	0.62
1:AA:566:G:H4'	1:AA:567:G:H5'	1.81	0.62
1:AA:580:U:H3'	1:AA:581:G:C8	2.34	0.62
1:AA:649:G:H2'	1:AA:650:G:H8	1.63	0.62
1:AA:771:G:C6	1:AA:809:G:C6	2.88	0.62
1:AA:965:A:N1	15:AP:124:PRO:HB3	2.14	0.62
3:AC:25:C:H2'	3:AC:26:A:C8	2.34	0.62
3:AC:31:A:H3'	3:AC:32:U:C6	2.34	0.62
4:AE:60:ASP:CG	4:AE:64:ARG:NH2	2.53	0.62
5:AF:11:ARG:HG3	5:AF:16:ARG:NE	2.15	0.62
5:AF:151:VAL:HG22	5:AF:200:ALA:HB1	1.82	0.62
1:AA:1191:A:P	5:AF:4:LYS:HZ3	2.22	0.62
9:AJ:140:ASP:O	9:AJ:144:MET:HB3	1.99	0.62
10:AK:112:LEU:HD21	10:AK:114:THR:HG23	1.81	0.62
10:AK:129:VAL:CG2	10:AK:130:GLY:H	2.09	0.62
10:AK:114:THR:HA	10:AK:131:GLY:CA	2.29	0.62
11:AL:37:PHE:CD1	11:AL:43:ALA:HA	2.35	0.62
13:AN:33:THR:HG22	13:AN:39:PRO:HB3	1.82	0.62
15:AP:13:LYS:HB3	15:AP:17:VAL:CB	2.29	0.62
1:AA:836:G:P	20:AU:61:LYS:NZ	2.73	0.62
22:AW:12:ALA:H	22:AW:13:LEU:CD1	2.01	0.62
22:AW:14:LYS:N	22:AW:17:ARG:HH21	1.98	0.62
22:AW:73:HIS:N	22:AW:76:ALA:HB3	2.09	0.62
23:AX:2:GLY:N	23:AX:5:ASP:HB2	2.14	0.62
53:B6:21:ARG:HB2	53:B6:21:ARG:CZ	2.30	0.62
24:BA:1023:U:OP1	24:BA:1025:G:N2	2.33	0.62
24:BA:1000:A:C2	24:BA:1155:A:C2	2.88	0.62
24:BA:1268:A:C4	24:BA:2013:A:N6	2.68	0.62
24:BA:1527:G:N2	24:BA:1545:A:N7	2.46	0.62
24:BA:1570:A:N6	24:BA:1571:A:N6	2.41	0.62
24:BA:1657:C:C2	24:BA:1658:C:C6	2.87	0.62
24:BA:1672:C:C5	24:BA:1673:U:H6	2.17	0.62
24:BA:1862:G:H2'	24:BA:1863:G:C8	2.35	0.62
24:BA:1878:G:O2'	24:BA:1879:C:H5'	1.98	0.62
24:BA:1935:G:C4	24:BA:1962:C:C4	2.88	0.62
24:BA:2009:G:H1'	38:BQ:107:ASP:O	1.99	0.62
24:BA:200:U:O4	24:BA:248:G:N7	2.33	0.62
24:BA:2080:G:O2'	24:BA:2081:C:H5'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2207:C:C2	24:BA:2208:U:O4'	2.52	0.62
24:BA:2603:G:C5	24:BA:2604:U:C5	2.87	0.62
24:BA:2626:C:H2'	24:BA:2627:G:C8	2.33	0.62
24:BA:515:A:H5''	41:BT:32:PHE:CZ	2.34	0.62
24:BA:533:G:C6	24:BA:534:U:N3	2.68	0.62
24:BA:548:A:H62	24:BA:549:G:N2	1.98	0.62
24:BA:594:U:C2'	24:BA:595:C:C6	2.80	0.62
24:BA:931:G:N2	49:B2:25:ALA:N	2.48	0.62
25:BB:69:G:N3	25:BB:69:G:H2'	2.14	0.62
27:BD:69:ARG:HH22	27:BD:130:ALA:HB2	1.64	0.62
28:BE:100:GLU:H	28:BE:172:VAL:HG22	1.65	0.62
28:BE:149:ARG:HD3	28:BE:149:ARG:C	2.19	0.62
29:BF:125:LEU:O	29:BF:127:GLU:N	2.32	0.62
30:BG:118:ARG:CZ	30:BG:118:ARG:HB3	2.29	0.62
30:BG:12:TYR:CD1	30:BG:13:GLU:N	2.68	0.62
30:BG:27:ASN:HB3	30:BG:29:TRP:CE2	2.35	0.62
30:BG:9:ARG:HH11	30:BG:9:ARG:HG3	1.65	0.62
31:BH:120:GLY:HA3	31:BH:136:ILE:CG2	2.27	0.62
32:BK:6:LEU:O	32:BK:15:VAL:N	2.27	0.62
32:BK:7:GLU:C	32:BK:14:ASP:HA	2.20	0.62
32:BK:8:PRO:HG3	32:BK:35:LEU:HB3	1.81	0.62
33:BL:116:ASN:HD21	33:BL:126:MET:HE1	1.64	0.62
33:BL:115:LEU:CD2	33:BL:126:MET:SD	2.87	0.62
33:BL:67:PHE:O	33:BL:68:VAL:HG13	1.99	0.62
37:BP:6:ARG:HG2	37:BP:7:MET:H	1.64	0.62
39:BR:100:ALA:HA	39:BR:103:GLU:OE2	2.00	0.62
39:BR:26:LEU:CD2	39:BR:37:ALA:HB1	2.29	0.62
40:BS:32:TYR:HB3	40:BS:88:ILE:HA	1.82	0.62
40:BS:63:VAL:O	40:BS:63:VAL:HG13	2.00	0.62
44:BW:12:VAL:HG13	44:BW:14:SER:HB3	1.80	0.62
45:BX:31:LEU:O	45:BX:33:LYS:N	2.33	0.62
26:BC:75:LEU:CD1	26:BC:99:ILE:HD13	2.29	0.62
33:BL:128:ALA:HB1	33:BL:138:VAL:CG1	2.30	0.62
33:BL:95:LYS:HG2	33:BL:137:GLU:OE2	1.99	0.62
1:AA:135:C:C6	1:AA:135:C:H3'	2.35	0.62
1:AA:1363:A:H1'	1:AA:1365:G:C6	2.35	0.62
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.31	0.62
1:AA:434:U:H2'	1:AA:435:C:C6	2.35	0.62
1:AA:50:A:O2'	1:AA:360:A:H2	1.82	0.62
1:AA:591:U:H6	1:AA:591:U:O5'	1.82	0.62
1:AA:714:G:O2'	1:AA:715:A:H5'	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:796:C:H2'	1:AA:797:C:C6	2.35	0.62
1:AA:848:C:O2'	1:AA:849:C:H5'	1.99	0.62
4:AE:35:GLU:CD	4:AE:35:GLU:C	2.59	0.62
4:AE:69:LEU:O	4:AE:162:ILE:CB	2.47	0.62
4:AE:92:TYR:HE2	4:AE:151:GLY:O	1.82	0.62
5:AF:66:VAL:C	5:AF:102:ASN:HD22	2.02	0.62
5:AF:24:ALA:HB3	5:AF:29:TYR:HB2	1.81	0.62
6:AG:57:ARG:HH22	7:AH:107:ARG:CD	2.13	0.62
6:AG:15:GLU:OE2	6:AG:63:LYS:HB3	2.00	0.62
1:AA:922:G:C4'	7:AH:20:GLN:HA	2.23	0.62
7:AH:24:ARG:C	7:AH:25:ARG:HD3	2.20	0.62
9:AJ:140:ASP:HA	9:AJ:143:ARG:NE	2.13	0.62
1:AA:826:C:C5'	10:AK:12:ARG:HH21	2.12	0.62
13:AN:82:VAL:HB	13:AN:108:ILE:CG1	2.27	0.62
1:AA:538:G:OP1	14:AO:114:LYS:N	2.33	0.62
14:AO:57:LYS:HE2	14:AO:67:THR:HG21	1.82	0.62
15:AP:10:PRO:CG	15:AP:18:ALA:HA	2.28	0.62
15:AP:91:ARG:HH11	15:AP:96:LEU:HD12	1.65	0.62
18:AS:4:ILE:HG23	18:AS:21:VAL:HG13	1.82	0.62
19:AT:50:LYS:HD2	19:AT:51:TYR:CZ	2.35	0.62
22:AW:26:ASN:ND2	22:AW:27:LYS:H	1.98	0.62
22:AW:64:ASP:O	22:AW:67:ALA:CB	2.47	0.62
23:AX:5:ASP:O	23:AX:7:ARG:N	2.32	0.62
24:BA:1024:G:O6	24:BA:1138:G:O6	2.18	0.62
24:BA:1044:G:H8	24:BA:1044:G:H5'	1.64	0.62
24:BA:1072:C:H2'	24:BA:1093:G:N7	2.15	0.62
24:BA:1210:A:H1'	24:BA:1212:G:N2	2.15	0.62
24:BA:1341:U:H5''	24:BA:1342:A:N7	2.15	0.62
24:BA:1372:U:O5'	24:BA:1372:U:H6	1.82	0.62
24:BA:1472:A:C6	24:BA:1518:C:N4	2.68	0.62
24:BA:1647:G:H2'	24:BA:1647:G:N3	2.15	0.62
24:BA:1683:C:H2'	24:BA:1684:C:H6	1.65	0.62
1:AA:1495:U:H1'	24:BA:1912:A:N3	2.14	0.62
24:BA:2210:G:N7	27:BD:150:LYS:O	2.33	0.62
24:BA:2466:C:H2'	24:BA:2467:C:C6	2.35	0.62
24:BA:2512:C:H2'	24:BA:2513:G:H4'	1.82	0.62
24:BA:2603:G:O2'	24:BA:2604:U:H5'	2.00	0.62
24:BA:2630:G:H1'	24:BA:2894:G:C4	2.34	0.62
24:BA:563:G:N2	24:BA:578:A:N1	2.45	0.62
24:BA:643:A:H1'	24:BA:644:A:C8	2.35	0.62
24:BA:656:G:H2'	24:BA:657:U:H6	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:118:VAL:O	27:BD:129:ASN:CA	2.47	0.62
27:BD:155:LEU:HA	27:BD:157:ARG:HH21	1.65	0.62
27:BD:7:LYS:HD3	27:BD:9:TYR:OH	2.00	0.62
28:BE:152:LYS:HE3	28:BE:153:GLY:HA3	1.80	0.62
28:BE:49:LEU:CD1	28:BE:76:ARG:HG2	2.30	0.62
24:BA:2636:U:O5'	28:BE:79:ARG:HB3	1.98	0.62
30:BG:135:LEU:HD12	30:BG:155:MET:HB2	1.82	0.62
31:BH:124:GLU:N	31:BH:124:GLU:OE1	2.33	0.62
31:BH:9:ILE:HD13	31:BH:73:ALA:CB	2.30	0.62
31:BH:88:LEU:CD2	31:BH:90:LYS:HB3	2.30	0.62
32:BK:5:LEU:HD13	32:BK:8:PRO:HB2	1.81	0.62
33:BL:78:ILE:HG21	33:BL:131:ALA:CB	2.29	0.62
34:BM:110:GLY:O	34:BM:114:ARG:CB	2.44	0.62
34:BM:63:THR:O	34:BM:65:LYS:HD2	1.99	0.62
35:BN:13:ASN:HB2	35:BN:94:ARG:HB2	1.82	0.62
35:BN:10:VAL:HG12	35:BN:17:ARG:C	2.20	0.62
35:BN:24:VAL:CG1	35:BN:32:TYR:H	2.13	0.62
35:BN:57:VAL:HG23	35:BN:58:VAL:N	2.14	0.62
36:BO:88:LEU:HG	36:BO:124:LYS:HE3	1.81	0.62
36:BO:13:ASN:ND2	36:BO:14:LYS:H	1.87	0.62
24:BA:942:G:O3'	36:BO:32:THR:HA	1.99	0.62
37:BP:116:GLU:HA	37:BP:119:ARG:HG3	1.81	0.62
37:BP:46:GLN:O	37:BP:49:ALA:CB	2.46	0.62
40:BS:68:TYR:CD2	40:BS:70:VAL:HG22	2.34	0.62
41:BT:70:ARG:CG	41:BT:75:ASN:HA	2.20	0.62
43:BV:98:LYS:HB3	43:BV:98:LYS:NZ	2.15	0.62
45:BX:12:THR:HG22	45:BX:13:VAL:HG12	1.81	0.62
46:BY:104:PHE:N	46:BY:104:PHE:CD2	2.68	0.62
46:BY:151:HIS:ND1	46:BY:151:HIS:N	2.47	0.62
46:BY:127:LYS:HZ2	46:BY:165:VAL:HB	1.61	0.62
46:BY:19:ARG:N	46:BY:23:LYS:O	2.33	0.62
46:BY:4:ARG:NH2	46:BY:88:PHE:CE1	2.68	0.62
3:AD:56:C:H5''	26:BC:133:PRO:CB	2.30	0.62
24:BA:1587:A:H2'	24:BA:1588:C:C6	2.34	0.62
24:BA:274:G:H2'	24:BA:275:G:H5'	1.82	0.62
1:AA:490:G:H2'	1:AA:491:G:C8	2.34	0.62
1:AA:1061:G:C2	1:AA:1197:G:C2	2.88	0.62
1:AA:1363:A:H1'	1:AA:1365:G:C5	2.34	0.62
1:AA:1464:G:C2	1:AA:1465:C:N4	2.68	0.62
1:AA:169:C:H2'	1:AA:170:U:C5	2.35	0.62
1:AA:438:G:H21	1:AA:495:A:H8	1.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:518:C:C2	1:AA:529:G:O6	2.53	0.62
1:AA:537:G:O3'	14:AO:113:ARG:NH1	2.31	0.62
1:AA:843:U:H3'	1:AA:848:C:C5'	2.29	0.62
1:AA:989:C:O2'	1:AA:990:C:H5'	2.00	0.62
3:AB:33:U:O2	3:AB:35:A:H5''	2.00	0.62
3:AC:27:G:C2	3:AC:28:G:C5	2.88	0.62
2:A1:8:U:O2'	4:AE:15:VAL:HA	2.00	0.62
4:AE:208:ILE:HG12	4:AE:211:ILE:HD12	1.82	0.62
8:AI:85:VAL:CG1	8:AI:88:VAL:HG13	2.28	0.62
9:AJ:143:ARG:HH11	9:AJ:144:MET:CB	2.06	0.62
9:AJ:142:GLU:O	9:AJ:145:ALA:O	2.17	0.62
9:AJ:35:LYS:HE2	9:AJ:38:LEU:HB2	1.82	0.62
10:AK:34:GLU:O	10:AK:38:ILE:HG12	1.99	0.62
12:AM:79:ARG:NH2	12:AM:82:ILE:HG21	2.15	0.62
14:AO:39:VAL:HB	14:AO:57:LYS:CB	2.26	0.62
14:AO:77:LEU:HD22	14:AO:81:SER:HB3	1.81	0.62
15:AP:11:ARG:NH1	15:AP:11:ARG:HG3	2.12	0.62
16:AQ:10:ALA:C	16:AQ:12:ARG:H	2.02	0.62
18:AS:22:THR:HA	18:AS:33:ILE:HG13	1.81	0.62
18:AS:27:LYS:O	18:AS:29:ASP:N	2.33	0.62
1:AA:377:G:OP1	18:AS:5:ARG:HD3	2.00	0.62
18:AS:8:ARG:NH2	18:AS:11:SER:O	2.32	0.62
22:AW:44:ALA:HB3	22:AW:91:LEU:CD1	2.13	0.62
24:BA:649:G:O3'	54:B7:17:THR:HG21	2.00	0.62
24:BA:1049:C:N3	24:BA:1050:A:N6	2.48	0.62
24:BA:1135:C:H2'	24:BA:1136:G:C8	2.32	0.62
24:BA:996:A:C6	24:BA:1160:G:N1	2.67	0.62
24:BA:1265:A:O2'	24:BA:1266:G:H4'	2.00	0.62
24:BA:1662:C:C4	24:BA:1663:C:N4	2.68	0.62
24:BA:1775:U:OP2	24:BA:1776:G:OP2	2.18	0.62
24:BA:1784:A:HO2'	24:BA:1785:A:P	2.17	0.62
24:BA:1819:A:OP2	27:BD:157:ARG:CZ	2.47	0.62
24:BA:1937:A:N6	24:BA:1939:U:O4	2.25	0.62
24:BA:1900:A:C2	24:BA:1970:A:C6	2.87	0.62
24:BA:2083:G:N2	24:BA:2084:C:C2	2.68	0.62
24:BA:2331:G:H4'	47:BZ:43:THR:N	2.14	0.62
24:BA:2362:G:N2	24:BA:2363:C:H1'	2.14	0.62
24:BA:2394:C:O2	24:BA:2394:C:H2'	1.99	0.62
24:BA:244:A:C5	24:BA:245:G:H1'	2.35	0.62
24:BA:2714:G:C6	24:BA:2715:C:C4	2.88	0.62
24:BA:2747:G:C5	24:BA:2756:U:O4	2.53	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2734:A:H61	24:BA:2770:G:H1'	1.64	0.62
24:BA:2850:A:H2	38:BQ:61:HIS:CE1	2.18	0.62
24:BA:2880:C:C2	24:BA:2881:C:C5	2.87	0.62
24:BA:531:C:C6	24:BA:532:A:C2	2.88	0.62
24:BA:885:C:H42	24:BA:889:C:H1'	1.64	0.62
24:BA:917:A:H3'	24:BA:918:A:C5'	2.30	0.62
24:BA:954:G:OP1	37:BP:17:LEU:HB3	2.00	0.62
24:BA:997:G:O2'	24:BA:998:C:C5'	2.48	0.62
25:BB:104:A:N6	25:BB:105:G:H21	1.98	0.62
25:BB:75:G:N3	25:BB:75:G:H2'	2.15	0.62
25:BB:82:G:H2'	25:BB:83:G:C8	2.32	0.62
27:BD:125:ILE:CG2	27:BD:137:PRO:HG3	2.22	0.62
27:BD:9:TYR:OH	27:BD:198:ASN:ND2	2.32	0.62
28:BE:116:VAL:O	28:BE:120:TRP:NE1	2.33	0.62
28:BE:36:ARG:CG	28:BE:79:ARG:HH11	1.97	0.62
28:BE:85:ASN:C	28:BE:87:GLU:H	2.03	0.62
29:BF:99:TYR:O	29:BF:101:LEU:N	2.33	0.62
29:BF:104:LYS:CG	29:BF:108:LYS:HZ1	2.04	0.62
29:BF:121:GLY:CA	29:BF:191:ARG:HE	2.11	0.62
29:BF:66:PRO:C	29:BF:68:LYS:N	2.38	0.62
29:BF:74:ARG:O	29:BF:75:HIS:HB2	1.98	0.62
29:BF:95:ARG:NE	29:BF:96:ASP:H	1.97	0.62
30:BG:2:PRO:HA	30:BG:5:VAL:CG2	2.30	0.62
33:BL:121:GLU:HB3	33:BL:125:ARG:NH1	2.15	0.62
34:BM:107:LEU:HD13	34:BM:117:PHE:CE2	2.35	0.62
24:BA:2641:G:H5'	34:BM:75:TYR:CG	2.35	0.62
24:BA:873:G:H5'	37:BP:66:ILE:HD11	1.82	0.62
38:BQ:83:ILE:CA	38:BQ:86:ARG:HG3	2.21	0.62
39:BR:7:TYR:HB3	39:BR:11:LYS:HZ2	1.63	0.62
39:BR:3:ARG:HH11	39:BR:3:ARG:HG3	1.64	0.62
39:BR:49:VAL:HB	39:BR:80:LEU:CD1	2.30	0.62
40:BS:53:ARG:NH2	40:BS:102:ILE:HG12	2.14	0.62
41:BT:65:ILE:CD1	41:BT:65:ILE:H	2.12	0.62
24:BA:30:G:OP1	41:BT:8:VAL:HG12	2.00	0.62
41:BT:98:LEU:HB3	41:BT:105:VAL:HG13	1.80	0.62
42:BU:18:LEU:HD23	42:BU:18:LEU:N	2.12	0.62
43:BV:13:SER:O	43:BV:17:VAL:CG1	2.47	0.62
43:BV:21:VAL:HG22	43:BV:25:ARG:HG3	1.80	0.62
45:BX:14:LEU:HB2	45:BX:20:TYR:N	2.13	0.62
45:BX:72:VAL:C	45:BX:73:ARG:HG3	2.20	0.62
45:BX:84:ARG:O	45:BX:84:ARG:HD2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:180:VAL:HG12	46:BY:180:VAL:O	1.99	0.62
47:BZ:50:ASN:HB3	47:BZ:63:VAL:HG13	1.82	0.62
47:BZ:68:GLU:HB3	47:BZ:80:HIS:C	2.19	0.62
32:BK:138:ILE:HG13	32:BK:140:LEU:CD1	2.29	0.62
32:BK:94:ALA:O	32:BK:97:ILE:HB	1.98	0.62
3:AD:48:C:HO2'	3:AD:49:C:P	2.23	0.62
24:BA:2124:G:H21	26:BC:217:THR:C	2.03	0.62
24:BA:2178:C:OP1	26:BC:46:LYS:HG2	2.00	0.62
24:BA:2103:C:C2	24:BA:2104:G:N7	2.68	0.62
24:BA:1416:G:N2	24:BA:1417:C:N4	2.48	0.62
43:BV:95:ILE:H	43:BV:95:ILE:CD1	2.06	0.62
24:BA:439:G:H2'	24:BA:440:G:H8	1.64	0.62
10:AK:53:VAL:HG12	10:AK:54:ASP:OD1	2.00	0.62
2:A1:32:U:O2'	2:A1:33:U:H5'	2.00	0.61
1:AA:1189:C:C2'	1:AA:1190:G:H5'	2.29	0.61
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.65	0.61
1:AA:1441:G:C2'	1:AA:1460:A:H61	2.13	0.61
1:AA:594:G:N7	1:AA:595:G:C2	2.68	0.61
1:AA:672:U:O2	1:AA:672:U:H2'	1.97	0.61
1:AA:738:C:H2'	1:AA:739:C:C6	2.33	0.61
1:AA:917:G:HO2'	1:AA:918:A:H5'	1.65	0.61
4:AE:208:ILE:HA	4:AE:211:ILE:CG1	2.29	0.61
4:AE:212:GLN:OE1	4:AE:212:GLN:HA	1.92	0.61
5:AF:35:GLU:HA	5:AF:38:ARG:HG2	1.83	0.61
6:AG:54:TYR:O	6:AG:55:ALA:C	2.39	0.61
10:AK:9:MET:CE	10:AK:13:ILE:HD11	2.30	0.61
12:AM:47:PHE:CE1	12:AM:64:GLU:HA	2.34	0.61
13:AN:100:ALA:C	13:AN:102:GLY:H	2.02	0.61
13:AN:73:MET:CE	13:AN:103:LEU:HD22	2.29	0.61
14:AO:47:LYS:N	14:AO:48:PRO:CD	2.63	0.61
16:AQ:27:CYS:SG	16:AQ:43:CYS:N	2.63	0.61
19:AT:104:LYS:HD3	19:AT:105:ALA:CB	2.29	0.61
50:B3:65:ASP:N	50:B3:68:ARG:NH2	2.48	0.61
50:B3:6:HIS:HB2	50:B3:7:PRO:HD3	1.81	0.61
52:B5:22:ALA:CB	52:B5:39:TYR:CE2	2.83	0.61
54:B7:60:LEU:HD23	54:B7:60:LEU:C	2.20	0.61
24:BA:1278:A:OP1	38:BQ:36:THR:HG22	1.99	0.61
24:BA:1309:G:C2	24:BA:1310:G:C8	2.87	0.61
24:BA:1434:A:C2	24:BA:1435:G:N9	2.68	0.61
24:BA:1612:C:O3'	53:B6:5:TRP:HD1	1.82	0.61
24:BA:1613:G:H2'	24:BA:1617:C:H42	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1650:G:O2'	24:BA:1651:G:P	2.58	0.61
24:BA:1725:G:N3	24:BA:1725:G:H2'	2.15	0.61
24:BA:1726:G:C6	24:BA:1727:U:O4	2.53	0.61
24:BA:1742:C:C4	24:BA:1743:G:C8	2.88	0.61
24:BA:1797:C:HO2'	27:BD:257:LEU:HD12	1.65	0.61
24:BA:1943:U:O2'	24:BA:1944:U:OP2	2.16	0.61
24:BA:2263:C:O2'	24:BA:2264:C:H5'	2.00	0.61
24:BA:2308:G:N3	24:BA:2308:G:H2'	2.15	0.61
24:BA:2484:G:H1'	37:BP:124:LYS:HZ3	1.64	0.61
24:BA:2597:G:H5'	27:BD:242:ARG:CG	2.29	0.61
24:BA:2730:C:O2'	24:BA:2731:G:H5'	1.99	0.61
24:BA:2787:C:H1'	28:BE:61:ARG:NH2	2.15	0.61
24:BA:534:U:HO2'	41:BT:49:HIS:CD2	2.17	0.61
24:BA:535:C:C2'	24:BA:536:A:H5'	2.29	0.61
24:BA:574:C:H4'	24:BA:575:A:O5'	1.98	0.61
24:BA:728:G:O2'	24:BA:729:G:H8	1.76	0.61
24:BA:876:C:N3	24:BA:901:A:N6	2.47	0.61
24:BA:974(A):C:O2	24:BA:989:G:C2	2.53	0.61
27:BD:176:ARG:N	27:BD:182:LEU:HD23	2.15	0.61
27:BD:242:ARG:O	27:BD:243:GLY:C	2.38	0.61
27:BD:8:PRO:CD	27:BD:26:LYS:H	2.12	0.61
27:BD:82:ILE:HG22	27:BD:83:GLU:N	2.15	0.61
27:BD:84:TYR:CD1	27:BD:91:ARG:HG3	2.35	0.61
24:BA:2787:C:H1'	28:BE:61:ARG:CD	2.30	0.61
28:BE:53:PRO:CG	28:BE:75:VAL:HG13	2.29	0.61
28:BE:49:LEU:HD13	28:BE:76:ARG:HG3	1.82	0.61
28:BE:8:LYS:HZ2	40:BS:3:ARG:HG2	1.65	0.61
30:BG:157:ILE:HG12	30:BG:158:ALA:N	2.15	0.61
34:BM:93:THR:C	34:BM:94:HIS:HD2	2.03	0.61
35:BN:106:LEU:HD12	35:BN:106:LEU:C	2.19	0.61
35:BN:24:VAL:HG22	35:BN:30:ALA:CA	2.30	0.61
36:BO:78:PRO:HG2	36:BO:117:GLU:OE1	2.00	0.61
37:BP:45:GLN:O	37:BP:46:GLN:C	2.38	0.61
38:BQ:13:HIS:CE1	38:BQ:15:SER:H	2.18	0.61
38:BQ:51:LEU:HG	38:BQ:66:VAL:CG1	2.30	0.61
40:BS:27:THR:HG22	40:BS:28:VAL:N	2.15	0.61
40:BS:76:PHE:CE2	40:BS:78:LEU:HB2	2.35	0.61
41:BT:85:LYS:NZ	41:BT:117:GLN:O	2.22	0.61
41:BT:76:TYR:O	41:BT:80:ILE:HB	2.00	0.61
42:BU:3:ALA:O	42:BU:12:TYR:CE2	2.53	0.61
41:BT:88:ILE:HG12	42:BU:52:VAL:HG22	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:52:VAL:O	42:BU:55:ALA:HB3	2.00	0.61
43:BV:24:ILE:HG23	43:BV:35:ILE:HG23	1.82	0.61
43:BV:39:THR:OG1	51:B4:28:PRO:CG	2.45	0.61
24:BA:2009:G:H5''	43:BV:41:LYS:HG2	1.81	0.61
44:BW:33:LYS:NZ	44:BW:33:LYS:HB2	2.14	0.61
46:BY:19:ARG:NH2	46:BY:84:GLU:O	2.33	0.61
26:BC:122:ALA:CA	26:BC:126:LYS:HD3	2.30	0.61
26:BC:190:ARG:O	26:BC:193:ILE:N	2.33	0.61
26:BC:77:ILE:HB	26:BC:115:ALA:HB2	1.82	0.61
24:BA:182:A:OP2	24:BA:182:A:C8	2.53	0.61
2:A1:52:U:H5''	6:AG:50:ARG:HB2	1.81	0.61
1:AA:1005:A:H4'	1:AA:1037:C:O2	1.99	0.61
1:AA:1305:G:N3	1:AA:1331:G:N2	2.48	0.61
1:AA:151:A:N7	1:AA:152:A:C2	2.69	0.61
1:AA:274:A:O2'	1:AA:275:G:H1'	2.00	0.61
1:AA:292:G:N7	1:AA:293:G:H1'	2.15	0.61
1:AA:323:U:H3'	1:AA:323:U:H6	1.65	0.61
1:AA:389:A:C6	1:AA:390:C:C1'	2.83	0.61
1:AA:730:G:H2'	1:AA:731:G:H5'	1.81	0.61
1:AA:791:G:N1	1:AA:1498:U:OP1	2.33	0.61
1:AA:572:A:C4'	1:AA:917:G:H5'	2.25	0.61
1:AA:990:C:H2'	1:AA:991:U:C1'	2.30	0.61
4:AE:189:ASP:OD1	4:AE:205:ASP:N	2.33	0.61
4:AE:29:ALA:O	4:AE:32:ILE:HB	1.99	0.61
4:AE:64:ARG:HG2	4:AE:66:GLY:H	1.65	0.61
5:AF:142:MET:HG2	5:AF:170:GLN:HG3	1.80	0.61
5:AF:24:ALA:HB1	5:AF:28:GLN:HE22	1.63	0.61
5:AF:67:THR:HA	5:AF:102:ASN:O	2.00	0.61
5:AF:64:VAL:O	5:AF:99:VAL:HG11	1.99	0.61
6:AG:146:ILE:HD12	6:AG:146:ILE:O	1.99	0.61
7:AH:79:GLU:CB	7:AH:92:LYS:HA	2.22	0.61
8:AI:36:ARG:O	8:AI:66:GLU:HG2	1.99	0.61
10:AK:12:ARG:HH11	10:AK:27:PRO:CD	2.05	0.61
10:AK:20:TYR:HE1	10:AK:78:GLN:HE22	1.46	0.61
12:AM:4:ILE:HG12	12:AM:99:LYS:O	2.00	0.61
13:AN:104:GLN:NE2	13:AN:106:LYS:HB2	2.15	0.61
13:AN:34:ASP:OD1	13:AN:37:GLY:N	2.31	0.61
14:AO:33:ARG:HG2	14:AO:60:LEU:HD23	1.83	0.61
15:AP:10:PRO:CG	15:AP:18:ALA:CB	2.77	0.61
15:AP:46:LYS:HG3	15:AP:47:ASP:OD1	2.00	0.61
15:AP:48:LEU:HD23	15:AP:49:THR:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:80:PRO:HB2	20:AU:82:THR:O	2.00	0.61
22:AW:53:LEU:O	22:AW:56:MET:N	2.34	0.61
22:AW:73:HIS:H	22:AW:76:ALA:HB2	1.65	0.61
22:AW:87:LYS:O	22:AW:88:VAL:C	2.36	0.61
49:B2:26:LEU:HG	49:B2:35:ARG:HH11	1.64	0.61
50:B3:20:ASN:HB2	50:B3:30:GLU:CB	2.30	0.61
52:B5:30:THR:CB	52:B5:31:PRO:CD	2.77	0.61
54:B7:5:LYS:HE3	54:B7:10:ALA:CB	2.30	0.61
54:B7:39:LYS:HB3	54:B7:39:LYS:NZ	2.15	0.61
54:B7:54:GLU:C	54:B7:56:GLU:OE2	2.39	0.61
54:B7:58:ILE:HG22	54:B7:61:LEU:HD12	1.80	0.61
24:BA:594:U:OP1	54:B7:61:LEU:HD13	2.01	0.61
54:B7:4:MET:HE2	54:B7:62:LEU:HG	1.81	0.61
55:B8:32:HIS:O	55:B8:34:GLN:HG3	2.01	0.61
24:BA:1142:U:H6	24:BA:1142(A):A:H8	1.38	0.61
24:BA:1189:A:H5''	24:BA:1190:G:OP2	2.00	0.61
24:BA:1203:G:C2	24:BA:1241:A:H8	2.18	0.61
24:BA:1204:A:P	24:BA:1204:A:O4'	2.58	0.61
24:BA:1446:C:H2'	24:BA:1447:G:C8	2.31	0.61
24:BA:1661:G:H2'	24:BA:1662:C:C6	2.34	0.61
24:BA:1935:G:H1'	24:BA:1964:G:N2	2.15	0.61
24:BA:2093:G:H4'	32:BK:25:TYR:CA	2.21	0.61
24:BA:221:A:C5	24:BA:266:G:N7	2.68	0.61
24:BA:2273:A:N7	24:BA:2274:A:C4	2.68	0.61
24:BA:2436:G:H2'	24:BA:2437:U:H6	1.64	0.61
24:BA:2584:U:H3'	24:BA:2584:U:C6	2.34	0.61
24:BA:2583:G:N3	24:BA:2584:U:O2	2.32	0.61
24:BA:2790:A:O4'	24:BA:2893:G:N2	2.32	0.61
24:BA:2876:G:C5'	40:BS:1:MET:H2	2.13	0.61
24:BA:522:G:O2'	24:BA:523:C:H5'	1.99	0.61
24:BA:551:G:H5'	24:BA:552:G:OP2	2.00	0.61
24:BA:672:C:OP2	36:BO:38:GLN:CG	2.47	0.61
24:BA:684:G:C2'	24:BA:687:C:N4	2.55	0.61
24:BA:81:G:O2'	24:BA:294:A:H2'	2.01	0.61
24:BA:1798:U:H5'	27:BD:257:LEU:CB	2.30	0.61
28:BE:104:VAL:CG1	28:BE:198:VAL:HG22	2.30	0.61
29:BF:132:VAL:H	29:BF:138:GLU:CD	2.03	0.61
29:BF:184:TYR:O	29:BF:185:ASP:C	2.39	0.61
30:BG:59:GLU:CD	30:BG:152:LEU:HD13	2.20	0.61
31:BH:103:LEU:HB3	31:BH:105:LEU:HD11	1.82	0.61
31:BH:31:GLY:O	31:BH:79:VAL:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:85:LYS:HD2	31:BH:145:ALA:HB1	1.81	0.61
34:BM:33:LEU:O	34:BM:35:ARG:HG3	2.00	0.61
34:BM:54:VAL:HG12	34:BM:122:VAL:CG1	2.30	0.61
36:BO:90:ARG:HA	36:BO:125:VAL:HG13	1.81	0.61
36:BO:28:GLY:C	36:BO:29:LYS:HG3	2.19	0.61
36:BO:81:GLN:CB	36:BO:86:LYS:HG3	2.30	0.61
24:BA:2495:G:C5'	37:BP:82:ARG:HA	2.31	0.61
40:BS:110:ILE:HD12	40:BS:113:LYS:HE3	1.82	0.61
41:BT:60:LEU:HB2	41:BT:61:TRP:HD1	1.64	0.61
41:BT:89:GLU:OE1	42:BU:50:PRO:CB	2.47	0.61
43:BV:91:GLY:O	43:BV:92:ARG:O	2.17	0.61
45:BX:1:MET:HG2	45:BX:33:LYS:HD2	1.81	0.61
46:BY:56:VAL:HG13	46:BY:133:ILE:HD11	1.82	0.61
46:BY:71:VAL:CG1	46:BY:74:VAL:HG23	2.30	0.61
47:BZ:51:VAL:HG21	47:BZ:79:VAL:C	2.20	0.61
47:BZ:67:VAL:O	47:BZ:67:VAL:HG12	2.00	0.61
32:BK:123:LEU:CD1	32:BK:145:VAL:HA	2.24	0.61
26:BC:10:LEU:HG	26:BC:220:PRO:HG3	1.80	0.61
48:B1:11:LEU:N	48:B1:11:LEU:HD12	2.15	0.61
24:BA:1508:A:N3	24:BA:1508:A:OP2	2.32	0.61
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.00	0.61
1:AA:1054:C:OP2	1:AA:1197:G:P	2.59	0.61
1:AA:1321:C:H2'	1:AA:1322:C:C6	2.34	0.61
1:AA:1466:C:H2'	1:AA:1467:G:C8	2.36	0.61
1:AA:54:C:H41	1:AA:352:C:H2'	1.65	0.61
1:AA:375:U:H4'	18:AS:17:TYR:HE2	1.62	0.61
1:AA:407:G:N2	1:AA:436:C:H1'	2.15	0.61
1:AA:51:A:O2'	1:AA:52:G:P	2.58	0.61
1:AA:817:C:HO2'	1:AA:818:G:H5'	1.64	0.61
3:AB:21:A:N6	3:AB:46:G:H2'	2.15	0.61
4:AE:211:ILE:HG22	4:AE:212:GLN:N	2.14	0.61
4:AE:214:ILE:O	4:AE:217:ARG:HB2	1.99	0.61
5:AF:48:TYR:CA	5:AF:52:LEU:HD22	2.30	0.61
6:AG:144:ASP:O	6:AG:184:LYS:HD3	2.00	0.61
7:AH:96:PRO:HD2	7:AH:98:THR:OG1	1.99	0.61
9:AJ:115:ARG:O	9:AJ:118:VAL:HB	2.00	0.61
9:AJ:50:ILE:HG21	9:AJ:58:PRO:CA	2.30	0.61
10:AK:100:ILE:CD1	10:AK:125:ARG:HE	2.13	0.61
10:AK:126:LYS:HZ1	10:AK:127:LEU:HB2	1.65	0.61
1:AA:826:C:H5'	10:AK:12:ARG:NH2	2.15	0.61
4:AE:181:PHE:HE1	10:AK:70:GLN:HE22	1.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:40:LEU:HB2	12:AM:69:ASN:HB2	1.82	0.61
13:AN:58:PRO:CB	13:AN:93:GLN:HB2	2.19	0.61
15:AP:98:VAL:O	15:AP:98:VAL:HG12	2.00	0.61
16:AQ:13:THR:O	16:AQ:14:PRO:C	2.37	0.61
19:AT:27:PHE:O	19:AT:35:VAL:HG13	2.00	0.61
20:AU:46:GLU:HB3	20:AU:85:LEU:CD1	2.24	0.61
21:AV:15:LEU:CD2	21:AV:38:SER:HB2	2.29	0.61
1:AA:986:A:H4'	21:AV:55:LYS:CG	2.29	0.61
50:B3:59:PHE:O	50:B3:60:GLN:C	2.38	0.61
52:B5:49:HIS:O	52:B5:50:ARG:CB	2.47	0.61
52:B5:50:ARG:O	52:B5:51:GLU:CB	2.47	0.61
24:BA:1023:U:H2'	24:BA:1024:G:H5'	1.80	0.61
24:BA:1089:G:H8	24:BA:1089:G:O5'	1.83	0.61
24:BA:443:A:O4'	24:BA:1201:C:C4'	2.48	0.61
24:BA:1315:C:HO2'	24:BA:1392:A:H1'	1.64	0.61
24:BA:1451:C:H2'	24:BA:1457:A:H61	1.64	0.61
24:BA:1758:G:O2'	24:BA:1759:A:OP1	2.11	0.61
24:BA:1788:C:N3	24:BA:1789:A:C8	2.69	0.61
24:BA:1808:U:C4	24:BA:1810:A:N1	2.68	0.61
24:BA:1992:G:C5	24:BA:1997:G:C4	2.88	0.61
24:BA:2004:G:C8	24:BA:2005:A:N7	2.69	0.61
24:BA:2199:A:C5	24:BA:2225:A:N1	2.67	0.61
24:BA:2519:U:O2	24:BA:2522:U:O4	2.18	0.61
24:BA:2580:U:OP2	24:BA:2580:U:C6	2.54	0.61
24:BA:1939:U:C2'	24:BA:2592:G:HO2'	2.13	0.61
24:BA:2682:U:N3	28:BE:21:VAL:HG11	2.16	0.61
24:BA:2709:G:C2'	24:BA:2710:C:H5'	2.30	0.61
24:BA:279:C:H2'	24:BA:280:C:C6	2.36	0.61
24:BA:2805:G:C5	24:BA:2807:G:H8	2.18	0.61
24:BA:482:A:N7	24:BA:506:G:C2	2.68	0.61
24:BA:582:G:N1	24:BA:1259:G:C6	2.69	0.61
24:BA:648:G:C4	24:BA:649:G:N7	2.69	0.61
24:BA:723:G:O2'	24:BA:724:U:C5'	2.47	0.61
24:BA:880:G:C2	24:BA:881:G:H1'	2.35	0.61
24:BA:996:A:C2	24:BA:997:G:C5	2.88	0.61
25:BB:13:A:H2'	25:BB:13:A:N3	2.15	0.61
25:BB:32:C:C2	25:BB:33:G:N7	2.67	0.61
27:BD:151:LYS:HB2	27:BD:154:LYS:HE3	1.81	0.61
27:BD:181:GLU:HB3	27:BD:268:ARG:NE	2.12	0.61
27:BD:261:LYS:C	27:BD:263:ARG:N	2.46	0.61
27:BD:7:LYS:HA	27:BD:26:LYS:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:106:GLY:HA3	28:BE:196:VAL:HG22	1.82	0.61
28:BE:182:LEU:HD23	28:BE:183:LEU:N	2.14	0.61
28:BE:105:THR:O	28:BE:197:ILE:HD12	2.00	0.61
24:BA:2636:U:O4'	28:BE:79:ARG:HD3	2.00	0.61
29:BF:34:TRP:HD1	29:BF:38:ARG:NH1	1.98	0.61
30:BG:35:GLU:O	30:BG:36:LYS:O	2.18	0.61
30:BG:8:LYS:HE2	30:BG:100:TRP:HD1	1.65	0.61
31:BH:45:VAL:HG13	31:BH:50:VAL:HG13	1.82	0.61
31:BH:68:THR:HG22	31:BH:72:ILE:CD1	2.30	0.61
32:BK:31:LEU:HD13	32:BK:36:ALA:O	2.00	0.61
34:BM:89:LYS:O	34:BM:90:MET:C	2.38	0.61
36:BO:46:LYS:HB2	36:BO:49:ARG:CB	2.20	0.61
37:BP:119:ARG:O	37:BP:123:HIS:CB	2.48	0.61
37:BP:43:THR:HG23	37:BP:46:GLN:HB3	1.83	0.61
38:BQ:44:LEU:CD1	38:BQ:48:VAL:CG2	2.78	0.61
25:BB:114:G:H1'	39:BR:38:GLN:HE22	1.63	0.61
40:BS:103:ARG:HB3	40:BS:107:ASP:OD1	2.00	0.61
42:BU:68:LYS:HZ3	42:BU:95:LEU:HD11	1.65	0.61
43:BV:20:VAL:HG13	43:BV:21:VAL:H	1.63	0.61
43:BV:47:VAL:C	43:BV:51:LEU:HD13	2.21	0.61
24:BA:1313:U:O4	44:BW:62:LYS:HB2	2.01	0.61
45:BX:74:PRO:C	45:BX:76:CYS:N	2.54	0.61
46:BY:102:LEU:HD11	46:BY:137:ILE:HG22	1.82	0.61
25:BB:75:G:C2	46:BY:27:VAL:HG21	2.35	0.61
46:BY:49:ARG:C	46:BY:51:ALA:N	2.52	0.61
46:BY:95:PRO:HB2	46:BY:130:PRO:HA	1.83	0.61
46:BY:91:LEU:HD12	46:BY:95:PRO:HG3	1.81	0.61
47:BZ:13:GLY:C	47:BZ:14:ARG:HD3	2.20	0.61
47:BZ:19:LYS:O	47:BZ:20:ARG:NH1	2.33	0.61
47:BZ:37:LEU:CG	47:BZ:59:LEU:O	2.47	0.61
47:BZ:50:ASN:HB3	47:BZ:63:VAL:HG22	1.82	0.61
3:AD:20:U:H5	24:BA:2112:G:H1'	1.64	0.61
24:BA:80:G:H1'	24:BA:347:A:N6	2.14	0.61
34:BM:140:VAL:OXT	34:BM:140:VAL:HG12	2.00	0.61
48:B1:65:GLN:HE21	48:B1:65:GLN:CA	2.11	0.61
1:AA:1137:C:H4'	1:AA:1138:G:N1	2.15	0.61
1:AA:1295:G:H21	1:AA:1302:U:H3	1.47	0.61
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.35	0.61
1:AA:191(C):G:O5'	1:AA:191(C):G:H8	1.84	0.61
1:AA:191(D):U:H2'	1:AA:191(E):G:C8	2.35	0.61
1:AA:265:G:C2'	1:AA:266:G:H5'	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:522:C:H41	1:AA:523:A:N6	1.94	0.61
1:AA:702:A:HO2'	1:AA:703:G:P	2.23	0.61
1:AA:730:G:H2'	1:AA:731:G:C5'	2.30	0.61
1:AA:914:A:O2'	1:AA:915:A:O5'	2.17	0.61
4:AE:18:GLY:CA	4:AE:41:ILE:HG23	2.31	0.61
6:AG:36:ARG:HB3	6:AG:38:TYR:CE2	2.35	0.61
2:A1:52:U:C4'	6:AG:50:ARG:HA	2.28	0.61
7:AH:141:GLN:O	7:AH:142:LEU:HG	2.00	0.61
7:AH:79:GLU:CG	7:AH:93:PRO:HD2	2.30	0.61
10:AK:28:ALA:O	10:AK:29:SER:CB	2.48	0.61
11:AL:26:VAL:HA	11:AL:61:ALA:O	2.01	0.61
13:AN:114:VAL:HG22	13:AN:115:PRO:N	2.14	0.61
14:AO:22:SER:C	14:AO:24:VAL:H	2.04	0.61
1:AA:280:C:N3	19:AT:39:SER:HB2	2.14	0.61
19:AT:9:VAL:HB	19:AT:84:LEU:HD13	1.81	0.61
21:AV:40:ILE:HD12	21:AV:74:PHE:CE2	2.36	0.61
48:B1:20:VAL:HA	48:B1:55:LEU:CD2	2.29	0.61
52:B5:20:ASN:ND2	52:B5:43:CYS:CB	2.63	0.61
52:B5:41:PRO:CG	52:B5:43:CYS:HB2	2.30	0.61
24:BA:1024:G:H3'	24:BA:1025:G:H5''	1.83	0.61
24:BA:1023:U:OP2	24:BA:1025:G:N1	2.33	0.61
24:BA:1061:U:H4'	24:BA:1070:A:H1'	1.82	0.61
24:BA:161:U:N3	24:BA:171:G:N2	2.48	0.61
24:BA:1703:G:N2	24:BA:1704:G:C4	2.67	0.61
24:BA:1853:A:N1	24:BA:2087:G:H1'	2.15	0.61
24:BA:1992:G:H1'	24:BA:1993:U:C4	2.34	0.61
24:BA:860:U:H5	24:BA:2267:A:H4'	1.65	0.61
24:BA:2330:G:H2'	24:BA:2331:G:O4'	2.00	0.61
24:BA:270(B):A:H1'	24:BA:270(C):C:H5	1.62	0.61
24:BA:324:A:N1	24:BA:325:G:N3	2.49	0.61
24:BA:402:A:H2'	24:BA:402:A:N3	2.15	0.61
24:BA:624:C:OP2	36:BO:105:LEU:CD2	2.48	0.61
24:BA:603:A:N6	24:BA:625:G:N7	2.48	0.61
24:BA:995:C:H1'	41:BT:57:PHE:CZ	2.35	0.61
25:BB:14:U:OP2	25:BB:70:C:O2'	2.16	0.61
27:BD:209:ALA:O	27:BD:213:ARG:HG2	2.01	0.61
28:BE:196:VAL:CG1	28:BE:197:ILE:H	2.13	0.61
28:BE:47:VAL:HG22	28:BE:79:ARG:CB	2.29	0.61
28:BE:92:THR:O	28:BE:94:GLU:N	2.32	0.61
24:BA:801:G:OP1	29:BF:57:VAL:N	2.33	0.61
30:BG:125:PHE:HD2	30:BG:129:GLY:N	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2306:C:H4'	30:BG:153:ARG:HH21	1.66	0.61
30:BG:68:PRO:CG	30:BG:72:ARG:HH12	2.12	0.61
31:BH:133:VAL:HG22	31:BH:134:SER:N	2.15	0.61
31:BH:5:GLY:O	31:BH:6:ARG:HB2	2.00	0.61
31:BH:98:LEU:O	31:BH:98:LEU:HD23	2.00	0.61
32:BK:9:LEU:HA	32:BK:17:GLN:NE2	2.15	0.61
33:BL:32:ALA:HB1	33:BL:37:PHE:HD1	1.66	0.61
33:BL:79:ARG:NH1	33:BL:87:GLY:HA2	2.15	0.61
34:BM:100:GLU:HA	34:BM:103:VAL:HG13	1.81	0.61
34:BM:17:ASP:O	34:BM:18:ALA:HB3	2.00	0.61
34:BM:93:THR:HG22	34:BM:94:HIS:HD2	1.63	0.61
35:BN:24:VAL:HA	35:BN:39:ILE:HG21	1.81	0.61
35:BN:60:ALA:C	35:BN:83:ALA:HB1	2.20	0.61
35:BN:96:THR:HA	35:BN:117:LEU:CD1	2.17	0.61
36:BO:96:THR:O	36:BO:102:ARG:HD3	2.00	0.61
36:BO:23:PRO:CG	36:BO:29:LYS:N	2.63	0.61
38:BQ:36:THR:HB	38:BQ:40:LYS:HD2	1.80	0.61
38:BQ:97:VAL:HG22	38:BQ:114:VAL:CG1	2.31	0.61
40:BS:27:THR:O	40:BS:52:ILE:HD12	2.00	0.61
41:BT:84:LYS:O	41:BT:85:LYS:C	2.38	0.61
41:BT:95:LEU:HD23	41:BT:95:LEU:N	2.13	0.61
1:AA:1011:G:N2	1:AA:1019:C:H1'	2.15	0.61
24:BA:489:G:H2'	24:BA:491:G:O4'	2.00	0.61
1:AA:1001:G:H5'	1:AA:1001:G:H8	1.65	0.61
1:AA:1026:G:C8	1:AA:1027:C:C6	2.89	0.61
1:AA:1058:G:O2'	1:AA:1059:C:H5'	1.98	0.61
1:AA:1148:U:O2	1:AA:1149:C:N1	2.33	0.61
1:AA:134:A:C6	1:AA:135:C:C4	2.88	0.61
1:AA:137:C:C2'	1:AA:138:G:O5'	2.48	0.61
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.64	0.61
1:AA:449:C:H2'	1:AA:450:G:C4'	2.29	0.61
1:AA:574:A:H5''	1:AA:575:G:OP2	2.00	0.61
1:AA:5:U:C4	6:AG:86:LYS:HD3	2.35	0.61
1:AA:687:A:H2'	1:AA:701:C:H41	1.66	0.61
1:AA:812:C:O2	1:AA:813:U:H5	1.82	0.61
1:AA:866:C:C6	1:AA:867:G:H1'	2.35	0.61
1:AA:979:C:H42	16:AQ:18:VAL:CB	2.13	0.61
4:AE:21:ARG:O	4:AE:23:ARG:HD3	1.99	0.61
4:AE:97:TRP:CZ3	4:AE:176:GLU:HG3	2.35	0.61
5:AF:188:LEU:HD22	5:AF:189:ALA:H	1.64	0.61
5:AF:22:TRP:HB2	5:AF:59:ARG:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:87:GLY:O	6:AG:89:THR:N	2.34	0.61
9:AJ:50:ILE:HD13	9:AJ:58:PRO:HA	1.81	0.61
9:AJ:95:ARG:O	9:AJ:96:GLN:C	2.39	0.61
10:AK:6:ILE:CG2	10:AK:7:ALA:H	1.91	0.61
10:AK:8:ASP:OD2	10:AK:12:ARG:HD2	2.00	0.61
11:AL:15:ALA:HB3	11:AL:76:ALA:CB	2.29	0.61
13:AN:14:VAL:O	13:AN:14:VAL:HG12	1.99	0.61
13:AN:95:ILE:HA	13:AN:98:LEU:HD12	1.82	0.61
15:AP:16:ASP:HA	15:AP:19:LEU:CD2	2.30	0.61
15:AP:66:LEU:CA	15:AP:70:LEU:HD12	2.25	0.61
17:AR:36:ILE:HA	17:AR:59:MET:HE1	1.83	0.61
17:AR:62:GLN:CA	17:AR:65:ARG:HH22	2.07	0.61
18:AS:31:LYS:HG2	18:AS:32:TYR:N	2.15	0.61
21:AV:32:LYS:HA	21:AV:50:ALA:CB	2.26	0.61
48:B1:12:SER:CB	48:B1:13:PRO:CD	2.78	0.61
48:B1:48:LEU:HD12	48:B1:51:GLN:HE22	1.64	0.61
49:B2:26:LEU:HB2	49:B2:28:LEU:CD2	2.28	0.61
50:B3:18:CYS:SG	50:B3:19:GLY:N	2.71	0.61
50:B3:31:ILE:O	50:B3:32:TYR:CB	2.48	0.61
50:B3:56:VAL:HB	50:B3:61:ARG:CD	2.31	0.61
50:B3:62:ARG:O	50:B3:65:ASP:OD1	2.17	0.61
54:B7:42:ARG:HB3	54:B7:43:GLN:NE2	2.16	0.61
24:BA:252:G:N7	54:B7:8:LYS:HE3	2.15	0.61
24:BA:85:G:H1'	24:BA:103:A:N1	2.16	0.61
24:BA:1047:G:H4'	24:BA:1047:G:OP1	2.00	0.61
24:BA:1069:A:C4'	24:BA:1070:A:H3'	2.31	0.61
24:BA:1087:G:N2	24:BA:1103:A:H2'	2.15	0.61
24:BA:1207:C:OP2	24:BA:1207:C:H6	1.84	0.61
24:BA:566:U:OP1	24:BA:1253:A:N1	2.34	0.61
24:BA:1263:U:H4'	51:B4:10:LYS:CD	2.30	0.61
24:BA:1347:G:N2	24:BA:1600:C:C2	2.69	0.61
24:BA:1459:G:O6	24:BA:1461:G:C6	2.53	0.61
24:BA:1422:G:O2'	24:BA:1493:C:O2	2.18	0.61
24:BA:1531:C:N3	24:BA:1532:C:N4	2.40	0.61
24:BA:1754:C:H5	40:BS:98:LYS:HD3	1.66	0.61
24:BA:1797:C:C4	24:BA:1798:U:O4	2.53	0.61
24:BA:1823:G:C2	24:BA:1824:G:C8	2.89	0.61
24:BA:1972:A:H2'	24:BA:1973:G:H8	1.66	0.61
24:BA:1995:U:H5'	24:BA:1996:C:H5'	1.82	0.61
24:BA:1661:G:N2	24:BA:2000:G:H1'	2.15	0.61
24:BA:2061:G:OP2	24:BA:2502:G:OP2	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2072:G:H2'	24:BA:2073:C:H6	1.61	0.61
24:BA:2284:C:OP1	52:B5:9:LEU:HB2	1.99	0.61
24:BA:2298:A:H3'	24:BA:2299:G:H8	1.65	0.61
24:BA:2352:A:C2	24:BA:2353:G:H1'	2.34	0.61
24:BA:2362:G:C2'	24:BA:2363:C:H5'	2.31	0.61
24:BA:2384:G:O2'	24:BA:2385:C:OP1	2.19	0.61
24:BA:2450:A:C2	24:BA:2451:A:C4	2.89	0.61
24:BA:2469:A:C2	24:BA:2482:G:C1'	2.83	0.61
24:BA:2482:G:C2	24:BA:2483:C:H1'	2.35	0.61
24:BA:2550:G:N2	24:BA:2559:C:C2	2.69	0.61
24:BA:2563:U:H4'	35:BN:28:SER:CB	2.29	0.61
24:BA:2567:G:H2'	24:BA:2568:C:C6	2.36	0.61
24:BA:2653:U:C2'	24:BA:2654:A:C8	2.83	0.61
24:BA:2657:A:H62	24:BA:2664:G:H21	1.47	0.61
24:BA:302:C:C2	24:BA:303:U:C5	2.88	0.61
24:BA:326:G:C4	24:BA:327:G:C8	2.88	0.61
24:BA:279:C:H41	24:BA:359:A:H1'	1.66	0.61
24:BA:673:C:H5''	29:BF:81:PRO:HG2	1.81	0.61
24:BA:860:U:H2'	24:BA:861:A:C5'	2.31	0.61
25:BB:99:A:C2	25:BB:100:G:C4	2.88	0.61
27:BD:176:ARG:CA	27:BD:182:LEU:HD23	2.30	0.61
24:BA:2596:U:C2'	27:BD:242:ARG:NH1	2.53	0.61
27:BD:29:PRO:HB2	27:BD:31:LYS:NZ	2.16	0.61
28:BE:49:LEU:CD2	28:BE:76:ARG:N	2.64	0.61
24:BA:601:C:C4'	29:BF:104:LYS:HZ3	2.13	0.61
29:BF:113:ALA:HB1	29:BF:187:VAL:CG1	2.30	0.61
29:BF:154:VAL:HB	29:BF:193:VAL:CG2	2.31	0.61
31:BH:101:ARG:CD	31:BH:117:PRO:HG3	2.30	0.61
33:BL:19:PRO:CG	33:BL:22:PRO:HG2	2.30	0.61
34:BM:33:LEU:HD13	34:BM:34:LEU:N	2.15	0.61
34:BM:37:LYS:HD2	34:BM:43:THR:N	2.14	0.61
34:BM:48:MET:C	34:BM:50:ASP:H	2.02	0.61
34:BM:48:MET:O	34:BM:119:ARG:NH1	2.31	0.61
34:BM:57:ALA:O	34:BM:58:ASP:O	2.18	0.61
36:BO:55:ARG:O	36:BO:56:SER:CB	2.46	0.61
24:BA:2484:G:N3	37:BP:124:LYS:CE	2.62	0.61
41:BT:65:ILE:HD12	41:BT:96:ALA:CB	2.21	0.61
42:BU:68:LYS:NZ	42:BU:95:LEU:HD11	2.15	0.61
44:BW:84:ALA:H	44:BW:85:PRO:HD2	1.65	0.61
45:BX:17:SER:OG	45:BX:18:GLY:N	2.26	0.61
45:BX:88:LYS:O	45:BX:91:GLU:HB2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:10:ARG:NH2	46:BY:36:LYS:H	1.98	0.61
46:BY:18:LEU:HD22	46:BY:23:LYS:CD	2.31	0.61
47:BZ:46:LYS:HE2	47:BZ:77:ARG:O	1.99	0.61
26:BC:193:ILE:HG22	26:BC:197:GLU:OE1	2.01	0.61
26:BC:200:LYS:O	26:BC:200:LYS:HG2	1.99	0.61
24:BA:1506:C:N3	24:BA:1507:A:H1'	2.15	0.61
2:A1:27:A:O2'	2:A1:28:G:H5'	2.01	0.61
1:AA:1124:G:N7	1:AA:1145:C:H2'	2.15	0.61
1:AA:1418:A:C3'	1:AA:1419:G:H5'	2.30	0.61
1:AA:1498:U:O2'	1:AA:1499:A:O5'	2.17	0.61
1:AA:17:U:O2'	1:AA:18:C:H5'	2.01	0.61
1:AA:38:G:N2	1:AA:397:A:C4	2.68	0.61
1:AA:414:A:C2'	1:AA:415:A:H8	2.13	0.61
1:AA:955:U:C2	1:AA:956:U:C5	2.87	0.61
1:AA:995:C:O2'	16:AQ:4:LYS:HE2	2.00	0.61
4:AE:69:LEU:CD2	4:AE:91:PRO:HB3	2.30	0.61
5:AF:67:THR:CA	5:AF:102:ASN:HB2	2.30	0.61
5:AF:10:PHE:O	5:AF:11:ARG:NH2	2.33	0.61
5:AF:47:LEU:HD12	5:AF:49:SER:HB3	1.82	0.61
1:AA:8:A:N6	6:AG:209:ARG:NH1	2.46	0.61
7:AH:127:ASN:O	7:AH:128:PRO:C	2.38	0.61
7:AH:12:LEU:HG	7:AH:129:ILE:CG1	2.30	0.61
7:AH:91:LEU:HD12	7:AH:118:ILE:CG2	2.31	0.61
9:AJ:22:LEU:HB3	9:AJ:62:PHE:HE2	1.65	0.61
9:AJ:50:ILE:HD12	9:AJ:58:PRO:HB3	1.82	0.61
11:AL:45:ALA:O	11:AL:78:LYS:HG3	2.01	0.61
15:AP:20:THR:HA	15:AP:25:ILE:CB	2.31	0.61
17:AR:70:LEU:HG	17:AR:78:TYR:CB	2.30	0.61
17:AR:71:GLN:HB2	17:AR:78:TYR:HE1	1.63	0.61
18:AS:20:VAL:CG1	18:AS:32:TYR:HB2	2.30	0.61
22:AW:43:LEU:HD22	22:AW:48:LYS:CB	2.31	0.61
24:BA:988:A:H5''	49:B2:10:LYS:CE	2.31	0.61
49:B2:15:TYR:N	49:B2:15:TYR:HD1	1.98	0.61
49:B2:50:VAL:HG13	49:B2:53:LEU:HB2	1.82	0.61
50:B3:58:ARG:CB	50:B3:62:ARG:NH2	2.64	0.61
51:B4:46:CYS:HB2	51:B4:47:PRO:CD	2.29	0.61
52:B5:33:LYS:NZ	52:B5:34:LEU:HD23	2.15	0.61
53:B6:34:ARG:HH22	53:B6:42:LEU:CD2	2.13	0.61
24:BA:1071:G:H2'	24:BA:1072:C:H5''	1.81	0.61
24:BA:1096:A:H62	33:BL:30:HIS:HB2	1.65	0.61
24:BA:1174:A:N6	24:BA:1177:A:C6	2.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1171:G:H1	24:BA:1179:C:N4	1.98	0.61
24:BA:1226:G:H3'	24:BA:1226:G:C8	2.34	0.61
24:BA:1227:A:H8	24:BA:1227:A:H3'	1.65	0.61
24:BA:1229:G:H2'	24:BA:1230:C:O4'	1.99	0.61
24:BA:1363:C:H4'	24:BA:1809:A:N7	2.15	0.61
24:BA:1742:C:C2	24:BA:1743:G:O4'	2.53	0.61
24:BA:1364:G:P	24:BA:1809:A:C6	2.94	0.61
24:BA:1838:C:H2'	24:BA:1898:U:O4	1.99	0.61
24:BA:1853:A:H1'	24:BA:2234:G:H5'	1.82	0.61
24:BA:190:A:OP2	24:BA:205:G:N2	2.33	0.61
24:BA:1988:C:H2'	24:BA:1989:G:O5'	2.00	0.61
24:BA:1992:G:H22	24:BA:1995:U:H5	1.47	0.61
24:BA:2254:C:O2'	24:BA:2255:G:H5'	1.99	0.61
24:BA:2392:A:O2'	24:BA:2393:A:H5'	2.00	0.61
24:BA:2439:A:H4'	24:BA:2440:C:H5''	1.82	0.61
24:BA:2491:U:C5	24:BA:2492:U:OP2	2.54	0.61
24:BA:2507:C:C2	24:BA:2583:G:C2	2.89	0.61
24:BA:2570:G:N3	24:BA:2570:G:H2'	2.16	0.61
24:BA:2761:G:O2'	24:BA:2762:G:H5'	2.00	0.61
24:BA:373:U:H4'	24:BA:374:A:H8	1.64	0.61
24:BA:558:G:C2	24:BA:559:G:C5	2.89	0.61
24:BA:566:U:C5'	42:BU:82:ARG:NH2	2.64	0.61
24:BA:59:U:H3'	24:BA:60:G:H5''	1.83	0.61
24:BA:64:A:C2'	24:BA:65:C:C5'	2.79	0.61
24:BA:704:G:H22	24:BA:726:G:C1'	2.12	0.61
24:BA:729:G:C5'	27:BD:211:ARG:HH12	2.14	0.61
24:BA:76:C:C6	24:BA:76:C:O5'	2.53	0.61
24:BA:845:G:H5''	24:BA:846:C:OP1	2.00	0.61
25:BB:104:A:N6	25:BB:105:G:N2	2.48	0.61
25:BB:61:G:C2	25:BB:62:C:C4	2.89	0.61
25:BB:99:A:C6	25:BB:100:G:C5	2.88	0.61
24:BA:1675:C:H5	28:BE:129:HIS:NE2	1.99	0.61
29:BF:41:LEU:HD12	29:BF:42:ALA:N	2.16	0.61
29:BF:49:ALA:HB3	29:BF:94:PRO:HA	1.83	0.61
29:BF:39:TRP:CE3	29:BF:99:TYR:HB3	2.36	0.61
31:BH:54:ARG:HH11	31:BH:57:ASP:HB2	1.65	0.61
33:BL:35:MET:HA	33:BL:38:VAL:CB	2.27	0.61
34:BM:123:TYR:C	34:BM:125:GLY:H	2.02	0.61
34:BM:86:PRO:HB2	34:BM:89:LYS:HZ2	1.60	0.61
35:BN:82:ASN:OD1	35:BN:82:ASN:N	2.34	0.61
36:BO:135:LEU:H	36:BO:135:LEU:HD12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:93:TYR:C	37:BP:94:VAL:CG1	2.69	0.61
40:BS:99:LEU:O	40:BS:100:TYR:O	2.19	0.61
41:BT:93:LYS:HB2	42:BU:10:LYS:CE	2.30	0.61
42:BU:39:LEU:O	42:BU:40:LEU:HD12	2.00	0.61
42:BU:45:THR:O	42:BU:46:VAL:HB	1.98	0.61
24:BA:566:U:C5'	42:BU:82:ARG:CZ	2.75	0.61
43:BV:73:ALA:O	43:BV:74:ALA:HB2	2.00	0.61
43:BV:76:VAL:CG2	43:BV:77:ASP:H	2.13	0.61
45:BX:46:LYS:HZ2	45:BX:46:LYS:HB3	1.64	0.61
46:BY:1:MET:HE1	46:BY:2:GLU:O	2.01	0.61
24:BA:2365:G:OP1	47:BZ:55:ARG:N	2.31	0.61
47:BZ:44:ARG:HE	47:BZ:77:ARG:CD	2.12	0.61
47:BZ:68:GLU:CD	47:BZ:82:ARG:HB2	2.21	0.61
32:BK:123:LEU:HD12	32:BK:124:GLY:H	1.63	0.61
32:BK:139:GLN:C	32:BK:140:LEU:HD12	2.20	0.61
3:AD:19:G:H5'	3:AD:20:U:C4	2.34	0.61
24:BA:2122:U:H2'	24:BA:2123:G:C5'	2.24	0.61
26:BC:161:ILE:O	26:BC:161:ILE:HG13	2.01	0.61
24:BA:440:G:H2'	24:BA:441:U:C6	2.36	0.61
50:B3:50:VAL:O	50:B3:51:ASP:CG	2.38	0.61
1:AA:1055:A:N6	1:AA:1206:G:C5	2.68	0.61
1:AA:1253:G:OP1	12:AM:44:VAL:HB	2.01	0.61
1:AA:1320:C:H3'	1:AA:1321:C:C6	2.35	0.61
1:AA:1373:G:OP1	11:AL:42:ARG:NH2	2.34	0.61
1:AA:186:C:H2'	1:AA:186(A):C:H6	1.66	0.61
1:AA:373:A:C2	1:AA:374:A:C8	2.89	0.61
1:AA:47:C:O2'	1:AA:48:C:OP2	2.19	0.61
1:AA:62:U:OP1	1:AA:386:C:H5'	2.00	0.61
1:AA:752:G:OP2	1:AA:752:G:O4'	2.18	0.61
1:AA:866:C:H3'	1:AA:867:G:H8	1.66	0.61
1:AA:986:A:H4'	21:AV:55:LYS:CD	2.31	0.61
3:AC:10:G:H8	3:AC:10:G:O5'	1.83	0.61
4:AE:140:HIS:O	4:AE:143:GLU:HB3	2.00	0.61
4:AE:141:GLU:OE1	4:AE:142:LEU:N	2.33	0.61
4:AE:58:ILE:O	4:AE:61:LEU:HB3	2.01	0.61
5:AF:24:ALA:HB1	5:AF:28:GLN:CD	2.19	0.61
1:AA:8:A:H5'	7:AH:120:THR:O	2.00	0.61
7:AH:76:ILE:HG21	7:AH:142:LEU:HD13	1.82	0.61
8:AI:39:LYS:O	8:AI:63:TYR:HA	2.00	0.61
10:AK:34:GLU:OE1	10:AK:34:GLU:HA	2.00	0.61
10:AK:38:ILE:C	10:AK:41:ARG:HB2	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:67:PRO:O	10:AK:76:PRO:HA	1.99	0.61
10:AK:8:ASP:O	10:AK:11:THR:OG1	2.19	0.61
16:AQ:4:LYS:O	16:AQ:7:ILE:HG13	2.00	0.61
11:AL:111:ARG:HD2	16:AQ:61:TRP:NE1	2.15	0.61
17:AR:6:GLU:O	17:AR:7:GLU:C	2.39	0.61
18:AS:4:ILE:N	18:AS:4:ILE:CD1	2.54	0.61
18:AS:59:TRP:CE3	18:AS:59:TRP:HA	2.36	0.61
19:AT:25:ARG:HG2	19:AT:26:GLN:N	2.15	0.61
1:AA:189:U:N3	19:AT:72:ARG:NH2	2.44	0.61
20:AU:69:THR:O	20:AU:70:ILE:C	2.39	0.61
50:B3:24:THR:C	50:B3:25:TYR:CD2	2.74	0.61
54:B7:51:ALA:O	54:B7:54:GLU:OE1	2.19	0.61
24:BA:1147:C:C2'	24:BA:1148:A:H5'	2.30	0.61
24:BA:1164:G:C5	24:BA:1165:U:C5	2.89	0.61
24:BA:1273:U:H4'	24:BA:1275:A:OP2	2.00	0.61
24:BA:1309:G:C2'	24:BA:1310:G:C5'	2.75	0.61
24:BA:1537:C:C3'	24:BA:1537:C:C6	2.84	0.61
24:BA:1567:A:H4'	24:BA:1568:G:N1	2.14	0.61
24:BA:1650:G:O6	24:BA:2008:C:N4	2.34	0.61
24:BA:1774:C:C5	27:BD:18:VAL:HG11	2.35	0.61
24:BA:1773:A:H2'	24:BA:1774:C:O4'	1.99	0.61
24:BA:2052:G:H2'	24:BA:2053:G:C8	2.29	0.61
24:BA:2058:A:N3	24:BA:2059:A:N7	2.48	0.61
24:BA:2206:C:H5''	24:BA:2228:G:H21	1.65	0.61
24:BA:2378:A:N3	24:BA:2378:A:H2'	2.13	0.61
24:BA:2392:A:O3'	54:B7:32:LEU:HD11	1.99	0.61
24:BA:2578:G:O2'	24:BA:2579:C:H6	1.84	0.61
24:BA:257:A:O5'	24:BA:257:A:C8	2.53	0.61
24:BA:225:A:O2'	24:BA:257:A:H4'	2.01	0.61
24:BA:819:A:H2'	24:BA:820:A:O4'	2.00	0.61
24:BA:820:A:O2'	24:BA:836:G:N2	2.34	0.61
24:BA:936:C:H2'	24:BA:937:U:H6	1.65	0.61
24:BA:961:C:C4	24:BA:2031:A:N3	2.69	0.61
24:BA:986:C:O5'	24:BA:986:C:H6	1.84	0.61
27:BD:159:ALA:C	27:BD:196:VAL:HG11	2.20	0.61
29:BF:125:LEU:C	29:BF:127:GLU:N	2.53	0.61
30:BG:126:ASP:HA	30:BG:166:ASP:OD1	2.01	0.61
30:BG:1:MET:C	30:BG:3:LEU:N	2.53	0.61
30:BG:3:LEU:HD22	30:BG:4:ASP:CG	2.21	0.61
31:BH:127:GLU:HB2	31:BH:130:ARG:O	2.00	0.61
31:BH:85:LYS:HZ1	31:BH:141:VAL:HG12	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:171:LEU:CA	31:BH:172:LYS:HZ2	2.12	0.61
31:BH:156:ALA:HB1	31:BH:172:LYS:HZ1	1.65	0.61
32:BK:4:ILE:O	32:BK:36:ALA:CB	2.37	0.61
34:BM:103:VAL:O	34:BM:104:LYS:C	2.38	0.61
34:BM:45:ASN:O	34:BM:46:VAL:CG2	2.45	0.61
35:BN:11:ALA:HB3	35:BN:97:ARG:NH1	2.13	0.61
36:BO:81:GLN:HA	36:BO:86:LYS:CE	2.30	0.61
36:BO:91:PHE:CD2	36:BO:96:THR:HG22	2.36	0.61
37:BP:43:THR:O	37:BP:47:ILE:CG1	2.49	0.61
39:BR:10:ARG:O	39:BR:12:PHE:N	2.32	0.61
39:BR:31:SER:HB3	39:BR:34:HIS:HB3	1.81	0.61
41:BT:111:GLU:HG3	41:BT:112:ARG:N	2.16	0.61
41:BT:76:TYR:CD2	41:BT:80:ILE:CD1	2.78	0.61
42:BU:62:LEU:HD13	42:BU:98:GLU:CA	2.31	0.61
44:BW:35:THR:HG22	44:BW:37:THR:H	1.66	0.61
24:BA:336:C:H4'	45:BX:67:LEU:HD23	1.81	0.61
45:BX:82:PRO:HD3	45:BX:97:ARG:H	1.63	0.61
32:BK:130:TYR:N	32:BK:130:TYR:CD1	2.69	0.61
3:AD:64:A:H2'	3:AD:65:G:H8	1.65	0.61
24:BA:2127:G:H5'	26:BC:36:LYS:CG	2.29	0.61
1:AA:1126:U:H2'	1:AA:1127:G:C8	2.36	0.61
1:AA:1157:A:C8	1:AA:1181:G:N2	2.69	0.61
1:AA:255:G:OP2	19:AT:66:SER:HB2	2.00	0.61
1:AA:118:U:O4	1:AA:289:G:H4'	2.00	0.61
1:AA:314:C:H2'	1:AA:315:A:C1'	2.31	0.61
1:AA:354:G:N2	1:AA:355:C:C2	2.69	0.61
1:AA:59:A:O2'	1:AA:388:G:H5''	2.00	0.61
1:AA:515:G:H2'	1:AA:516:U:O4'	2.00	0.61
1:AA:558:G:C5'	1:AA:559:A:H5''	2.31	0.61
1:AA:782:A:C6	1:AA:801:U:C2	2.88	0.61
3:AB:9:A:O2'	3:AB:45:U:C2'	2.48	0.61
3:AD:75:C:H5''	3:AD:76:A:C4'	2.30	0.61
4:AE:182:ILE:HD13	4:AE:182:ILE:H	1.66	0.61
5:AF:10:PHE:HD1	5:AF:178:LEU:CD2	2.14	0.61
5:AF:11:ARG:HH22	5:AF:179:ARG:N	1.97	0.61
5:AF:180:ALA:HB1	5:AF:182:ILE:HD11	1.81	0.61
5:AF:91:LEU:HD23	5:AF:92:ALA:N	2.15	0.61
6:AG:80:GLU:HA	6:AG:83:SER:OG	2.00	0.61
8:AI:2:ARG:O	8:AI:67:MET:HE1	2.01	0.61
8:AI:78:GLU:HA	8:AI:81:ILE:CD1	2.31	0.61
9:AJ:88:PRO:CG	9:AJ:152:ALA:HB2	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:75:ARG:NH1	10:AK:75:ARG:HB2	2.15	0.61
13:AN:73:MET:SD	13:AN:103:LEU:HB3	2.40	0.61
13:AN:39:PRO:C	13:AN:40:ILE:HD13	2.21	0.61
15:AP:52:GLU:HB3	15:AP:55:ARG:CZ	2.30	0.61
1:AA:136:C:O2'	18:AS:63:GLY:HA2	2.01	0.61
19:AT:81:ARG:HG2	19:AT:84:LEU:HD21	1.83	0.61
20:AU:20:ALA:HB1	20:AU:55:ARG:HH21	1.65	0.61
21:AV:40:ILE:O	21:AV:41:VAL:HG13	2.00	0.61
22:AW:50:GLU:OE1	22:AW:100:ILE:HG23	2.00	0.61
22:AW:57:ARG:NH2	22:AW:100:ILE:HD12	2.15	0.61
48:B1:27:LEU:HD21	48:B1:48:LEU:C	2.21	0.61
48:B1:32:PHE:H	48:B1:32:PHE:HD1	1.45	0.61
54:B7:30:ARG:NH2	54:B7:43:GLN:C	2.51	0.61
24:BA:1024:G:OP2	24:BA:1025:G:H3'	2.01	0.61
24:BA:1054:A:H2'	24:BA:1055:G:C8	2.36	0.61
24:BA:1069:A:H4'	24:BA:1070:A:O5'	2.01	0.61
24:BA:1020:A:N3	24:BA:1140:C:O2	2.33	0.61
24:BA:1303:G:C8	24:BA:1304:C:C5	2.88	0.61
24:BA:1419:A:N7	24:BA:1421:G:C6	2.68	0.61
24:BA:1521:G:H3'	24:BA:1522:G:C5'	2.30	0.61
24:BA:1795:C:O2'	24:BA:1796:U:H5'	2.01	0.61
24:BA:1882:C:C2'	24:BA:1883:G:H5'	2.30	0.61
24:BA:2431:U:O2'	24:BA:2432:A:H5''	2.00	0.61
24:BA:2770:G:H2'	24:BA:2771:C:H5'	1.82	0.61
24:BA:318:C:O2	24:BA:334:C:C2	2.54	0.61
24:BA:216:A:H61	24:BA:431:U:H3	1.46	0.61
24:BA:447:A:C6	24:BA:454:A:N7	2.69	0.61
24:BA:46:C:N4	24:BA:214:G:C8	2.68	0.61
24:BA:503:A:H4'	24:BA:504:U:O5'	2.01	0.61
24:BA:562:U:N3	24:BA:572:A:N3	2.44	0.61
24:BA:637:A:C2	24:BA:651:G:C5'	2.82	0.61
24:BA:84:A:H5'	45:BX:8:LYS:CE	2.29	0.61
24:BA:888:C:H4'	24:BA:889:C:O2	2.00	0.61
24:BA:918:A:N3	24:BA:918:A:H5'	2.15	0.61
24:BA:969:U:O2'	24:BA:970:C:H5'	2.01	0.61
25:BB:12:C:C5	47:BZ:74:ARG:O	2.53	0.61
25:BB:6:C:H5'	25:BB:27:C:O2'	2.01	0.61
27:BD:258:LYS:HA	27:BD:261:LYS:HD2	1.83	0.61
27:BD:260:ARG:O	27:BD:261:LYS:C	2.38	0.61
24:BA:1799:G:H5''	27:BD:264:LYS:NZ	2.14	0.61
1:AA:776:G:O6	27:BD:276:LYS:C	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:102:VAL:HA	28:BE:202:LYS:HZ1	1.66	0.61
28:BE:54:GLN:HG2	28:BE:57:LYS:HG3	1.83	0.61
28:BE:5:LEU:HA	28:BE:76:ARG:HH22	1.65	0.61
32:BK:29:TYR:N	32:BK:29:TYR:CD1	2.69	0.61
24:BA:2674:G:C5'	35:BN:26:LYS:HD2	2.30	0.61
37:BP:111:GLU:HB3	37:BP:112:GLU:OE2	2.00	0.61
37:BP:32:TYR:CZ	37:BP:106:VAL:HG23	2.35	0.61
38:BQ:51:LEU:HG	38:BQ:66:VAL:HG11	1.81	0.61
38:BQ:75:LEU:O	38:BQ:76:VAL:C	2.39	0.61
39:BR:106:ARG:NH2	39:BR:110:LEU:CD2	2.58	0.61
39:BR:57:LYS:NZ	39:BR:62:LYS:HB3	2.16	0.61
40:BS:28:VAL:HG12	40:BS:30:VAL:CG1	2.30	0.61
41:BT:47:TYR:OH	42:BU:76:LYS:C	2.38	0.61
42:BU:20:LEU:CB	42:BU:95:LEU:HD13	2.31	0.61
46:BY:165:VAL:CG1	46:BY:166:SER:H	1.97	0.61
46:BY:4:ARG:NE	46:BY:44:PHE:HZ	1.80	0.61
32:BK:114:LEU:CA	32:BK:130:TYR:HB3	2.27	0.61
32:BK:94:ALA:HA	32:BK:97:ILE:CD1	2.31	0.61
3:AD:62:C:H4'	26:BC:52:ARG:CD	2.28	0.61
26:BC:211:SER:HB2	26:BC:223:ARG:NH2	2.15	0.61
26:BC:22:ILE:CB	26:BC:190:ARG:HH22	2.14	0.61
26:BC:77:ILE:HG22	26:BC:119:VAL:CG2	2.31	0.61
48:B1:2:ARG:CZ	48:B1:2:ARG:H	2.14	0.61
1:AA:131:C:N4	1:AA:232:G:N1	2.48	0.61
19:AT:100:LYS:HB3	19:AT:100:LYS:NZ	2.15	0.61
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.14	0.61
1:AA:934:C:N4	1:AA:1344:C:N3	2.48	0.61
1:AA:1373:G:O2'	9:AJ:34:GLY:HA2	2.00	0.61
1:AA:1443:G:O3'	1:AA:1446:A:H4'	2.01	0.61
1:AA:190:G:OP1	1:AA:190:G:H8	1.82	0.61
1:AA:224:C:H2'	1:AA:225:C:C6	2.35	0.61
1:AA:467:G:OP2	1:AA:467:G:H3'	2.01	0.61
1:AA:721:G:O6	20:AU:71:LYS:NZ	2.27	0.61
1:AA:869:G:H4'	1:AA:872:A:C8	2.35	0.61
1:AA:918:A:O2'	1:AA:919:A:OP1	2.19	0.61
1:AA:938:A:C4	1:AA:939:G:C8	2.89	0.61
1:AA:969:A:OP1	1:AA:969:A:C4'	2.48	0.61
4:AE:55:PHE:HA	4:AE:58:ILE:CG1	2.31	0.61
5:AF:120:VAL:HG21	5:AF:137:ALA:HB1	1.82	0.61
1:AA:406:G:H21	6:AG:119:GLN:HE22	1.48	0.61
6:AG:165:MET:HE1	6:AG:167:GLY:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:170:VAL:HG11	6:AG:174:LEU:HB2	1.82	0.61
8:AI:64:GLN:C	8:AI:65:VAL:CG1	2.70	0.61
10:AK:22:GLU:HA	10:AK:63:LEU:CD2	2.22	0.61
10:AK:46:LYS:HD2	10:AK:63:LEU:O	2.01	0.61
1:AA:1248:A:H2'	11:AL:70:LYS:HZ1	1.64	0.61
11:AL:93:ARG:CZ	11:AL:97:LYS:HG2	2.29	0.61
19:AT:3:LYS:O	19:AT:5:VAL:HG23	2.01	0.61
8:AI:89:MET:CE	20:AU:76:LEU:HD21	2.31	0.61
21:AV:46:GLY:O	21:AV:47:HIS:ND1	2.34	0.61
1:AA:1319:A:H4'	21:AV:70:LYS:HZ1	1.64	0.61
22:AW:73:HIS:O	22:AW:74:LYS:C	2.39	0.61
1:AA:1327:C:OP1	23:AX:20:LYS:HE2	2.01	0.61
48:B1:38:GLN:H	48:B1:41:GLN:CD	2.02	0.61
49:B2:28:LEU:H	49:B2:28:LEU:HD23	1.64	0.61
50:B3:29:PRO:CG	50:B3:31:ILE:HG23	2.27	0.61
24:BA:2432:A:C2	50:B3:30:GLU:HA	2.30	0.61
54:B7:49:VAL:O	54:B7:53:PRO:CD	2.48	0.61
24:BA:1106:G:OP2	24:BA:1106:G:C8	2.54	0.61
24:BA:1022:G:C5	24:BA:1139:G:C6	2.89	0.61
24:BA:1299:G:O4'	24:BA:1301:A:N3	2.34	0.61
24:BA:1458:C:H4'	24:BA:1459:G:C5	2.35	0.61
24:BA:1519:G:H2'	24:BA:1520:U:O4'	2.00	0.61
24:BA:1536:A:H2'	24:BA:1537:C:C6	2.36	0.61
24:BA:1675:C:C4	28:BE:128:SER:HB2	2.35	0.61
24:BA:18:C:O2	24:BA:553:U:H5''	2.01	0.61
24:BA:1954:G:H2'	24:BA:1956:U:C4	2.36	0.61
24:BA:980:A:H2	24:BA:2038:G:C1'	2.12	0.61
24:BA:2043:C:C2'	24:BA:2044:C:O5'	2.48	0.61
24:BA:2313:C:H2'	24:BA:2314:C:H6	1.65	0.61
24:BA:2356:C:H3'	24:BA:2357:U:C5	2.36	0.61
24:BA:2415:G:C5'	36:BO:61:ARG:HB2	2.30	0.61
24:BA:2469:A:H4'	37:BP:56:ARG:HD3	1.83	0.61
24:BA:2491:U:O2	24:BA:2492:U:C5	2.54	0.61
24:BA:2653:U:H3'	24:BA:2654:A:H8	1.66	0.61
24:BA:270(X):G:C3'	24:BA:270(Y):G:H5'	2.31	0.61
24:BA:2746:U:C4	24:BA:2756:U:C4	2.88	0.61
24:BA:2747:G:N2	24:BA:2754:U:C2	2.68	0.61
24:BA:27:G:N2	24:BA:512:G:O2'	2.33	0.61
24:BA:2861:G:OP2	24:BA:2861:G:O4'	2.18	0.61
24:BA:2895:U:H2'	24:BA:2896:C:C6	2.35	0.61
24:BA:685:A:C2	24:BA:689:A:C6	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:904:C:O2'	24:BA:905:U:H5'	2.01	0.61
25:BB:32:C:O2	25:BB:32:C:H2'	1.99	0.61
25:BB:55:U:C2'	25:BB:56:G:H5'	2.30	0.61
25:BB:60:C:H2'	25:BB:60:C:O2	1.99	0.61
25:BB:13:A:C6	25:BB:70:C:O4'	2.54	0.61
27:BD:143:HIS:O	27:BD:145:VAL:N	2.26	0.61
27:BD:181:GLU:HA	27:BD:270:ILE:CG2	2.29	0.61
24:BA:1790:C:O2'	27:BD:209:ALA:CB	2.49	0.61
27:BD:268:ARG:O	27:BD:269:PHE:CD1	2.54	0.61
24:BA:1824:G:OP1	27:BD:53:PHE:CE2	2.54	0.61
28:BE:111:ARG:HD3	28:BE:160:TYR:O	2.01	0.61
30:BG:121:ASN:ND2	30:BG:133:LEU:HD21	2.16	0.61
30:BG:79:ASN:OD1	30:BG:82:LEU:HG	2.01	0.61
30:BG:8:LYS:HZ1	30:BG:176:LEU:CD1	2.14	0.61
33:BL:101:TRP:CE3	33:BL:105:LEU:HD21	2.36	0.61
1:AA:1423:G:H5'	35:BN:49:ARG:HH21	1.66	0.61
35:BN:97:ARG:CB	35:BN:97:ARG:CZ	2.78	0.61
36:BO:54:GLY:HA2	54:B7:12:LYS:CD	2.30	0.61
24:BA:2393:A:C5'	36:BO:56:SER:N	2.63	0.61
38:BQ:14:SER:HA	38:BQ:17:ARG:HG2	1.81	0.61
38:BQ:52:ILE:HD12	38:BQ:94:TYR:HD1	1.65	0.61
38:BQ:55:ALA:CB	38:BQ:79:LEU:HD11	2.29	0.61
39:BR:62:LYS:O	39:BR:65:VAL:HG22	2.01	0.61
41:BT:9:VAL:HG12	41:BT:13:LYS:HD3	1.82	0.61
45:BX:47:LYS:O	45:BX:48:ALA:HB3	2.00	0.61
47:BZ:39:ARG:HG2	47:BZ:58:THR:OG1	2.01	0.61
32:BK:131:LYS:O	32:BK:131:LYS:HD2	2.01	0.61
3:AD:63:G:H5'	26:BC:53:ARG:NE	2.16	0.61
3:AD:8:U:O4	3:AD:14:A:N7	2.34	0.61
26:BC:163:PHE:N	26:BC:163:PHE:CD2	2.68	0.61
26:BC:77:ILE:HG21	26:BC:100:ILE:HD11	1.83	0.61
26:BC:7:TYR:OH	26:BC:11:LEU:HD13	2.00	0.61
24:BA:1767:C:C4	24:BA:1768:U:C5	2.89	0.61
48:B1:65:GLN:HE21	48:B1:65:GLN:N	1.99	0.61
1:AA:1054:C:C6	1:AA:1054:C:H3'	2.36	0.61
1:AA:1215:G:C2	1:AA:1216:G:C8	2.89	0.61
1:AA:1269:A:C8	1:AA:1270:C:H1'	2.36	0.61
1:AA:1288:A:C4	1:AA:1289:A:N7	2.69	0.61
1:AA:1371:G:OP2	11:AL:11:LYS:NZ	2.34	0.61
1:AA:1453:G:H2'	1:AA:1454:G:C4'	2.31	0.61
1:AA:501:C:H2'	1:AA:502:G:H8	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:C2'	1:AA:782:A:C5'	2.67	0.61
3:AB:18:G:C2'	3:AB:57:G:H1	2.14	0.61
3:AC:30:G:C2	3:AC:31:A:H1'	2.36	0.61
4:AE:28:PHE:N	4:AE:194:PRO:HG2	2.16	0.61
4:AE:84:GLU:OE1	4:AE:216:SER:HA	2.01	0.61
4:AE:87:ARG:C	4:AE:89:GLY:N	2.54	0.61
6:AG:168:ARG:HD2	6:AG:168:ARG:H	1.66	0.61
6:AG:35:ARG:O	6:AG:37:PRO:CD	2.49	0.61
7:AH:75:THR:HA	7:AH:118:ILE:HD11	1.82	0.61
7:AH:135:THR:C	7:AH:139:LEU:HD12	2.22	0.61
8:AI:14:LEU:CD1	8:AI:15:ASP:N	2.57	0.61
8:AI:4:TYR:HB3	8:AI:91:VAL:O	2.01	0.61
9:AJ:106:GLN:HA	9:AJ:106:GLN:NE2	2.14	0.61
9:AJ:12:LEU:HD22	9:AJ:24:THR:HG22	1.83	0.61
9:AJ:51:GLN:HE22	9:AJ:58:PRO:CG	2.13	0.61
10:AK:69:ARG:NH1	10:AK:73:ASP:O	2.34	0.61
12:AM:23:ILE:CG2	12:AM:72:VAL:HG11	2.30	0.61
12:AM:83:GLU:HA	12:AM:83:GLU:OE1	1.99	0.61
13:AN:104:GLN:HE22	13:AN:106:LYS:HB2	1.65	0.61
13:AN:42:TRP:HE3	13:AN:43:SER:N	1.99	0.61
13:AN:84:VAL:HB	20:AU:88:LYS:HZ3	1.66	0.61
13:AN:92:GLU:OE1	13:AN:92:GLU:HA	2.01	0.61
14:AO:11:VAL:HG22	19:AT:32:TYR:HD1	1.66	0.61
14:AO:24:VAL:HG22	14:AO:98:TYR:CE1	2.34	0.61
14:AO:90:VAL:HG12	14:AO:93:LEU:HD21	1.82	0.61
17:AR:39:LEU:CD1	17:AR:56:LEU:HD13	2.31	0.61
19:AT:66:SER:CB	19:AT:69:LYS:NZ	2.62	0.61
8:AI:50:TYR:HE1	20:AU:81:PHE:CE2	2.19	0.61
53:B6:40:TRP:O	53:B6:41:ARG:HB3	2.01	0.61
24:BA:811:U:H1'	24:BA:1251:C:O2	2.00	0.61
24:BA:128:C:H2'	24:BA:129:C:H6	1.64	0.61
24:BA:1336:A:H2'	24:BA:1337:G:H8	1.66	0.61
24:BA:1419:A:N6	24:BA:1421:G:C2	2.69	0.61
24:BA:1475:G:C2	24:BA:1477:A:N6	2.58	0.61
24:BA:1572:A:P	24:BA:1572:A:O4'	2.59	0.61
24:BA:1928:A:H2'	24:BA:1929:G:H5'	1.82	0.61
24:BA:2006:C:H5''	24:BA:2048:G:H5''	1.83	0.61
24:BA:204:A:H4'	24:BA:205:G:C5'	2.31	0.61
24:BA:2228:G:C8	24:BA:2229:C:C6	2.88	0.61
24:BA:2424:C:H2'	24:BA:2424:C:O2	2.01	0.61
24:BA:2447:G:O3'	24:BA:2499:C:OP1	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2468:G:HO2'	24:BA:2469:A:H8	1.49	0.61
24:BA:2479:G:C2	24:BA:2480:C:H1'	2.36	0.61
24:BA:2548:G:C8	24:BA:2548:G:H5'	2.32	0.61
24:BA:2595:G:N2	24:BA:2599:G:C6	2.69	0.61
24:BA:2696:U:O2'	24:BA:2697:G:H5'	2.00	0.61
24:BA:290:G:C8	24:BA:290:G:OP1	2.54	0.61
24:BA:453:C:H4'	24:BA:457:A:H62	1.65	0.61
24:BA:558:G:C2'	24:BA:559:G:H5'	2.30	0.61
24:BA:619:G:H8	24:BA:619:G:H3'	1.64	0.61
24:BA:636:G:N2	36:BO:75:ILE:CG2	2.61	0.61
24:BA:775:G:H4'	24:BA:777:A:C5	2.35	0.61
24:BA:937:U:O2'	24:BA:938:G:H5'	2.01	0.61
24:BA:960:A:C2	24:BA:962:G:H1'	2.35	0.61
25:BB:52:A:N3	25:BB:52:A:H2'	2.15	0.61
27:BD:183:ARG:HA	27:BD:268:ARG:HA	1.83	0.61
27:BD:176:ARG:NH2	27:BD:270:ILE:HD11	2.10	0.61
27:BD:80:ALA:O	27:BD:81:ALA:HB2	2.01	0.61
28:BE:92:THR:CG2	28:BE:96:PHE:HB2	2.30	0.61
30:BG:119:GLY:HA3	30:BG:180:PHE:CE2	2.35	0.61
34:BM:100:GLU:C	34:BM:103:VAL:HG13	2.21	0.61
34:BM:33:LEU:CD1	34:BM:34:LEU:HG	2.29	0.61
34:BM:43:THR:CB	34:BM:44:PRO:CD	2.59	0.61
34:BM:87:LEU:HA	34:BM:90:MET:HB2	1.82	0.61
35:BN:3:GLN:OE1	35:BN:3:GLN:O	2.19	0.61
37:BP:36:ALA:O	37:BP:100:GLY:HA2	2.01	0.61
37:BP:34:LEU:CG	37:BP:67:ARG:HH22	2.13	0.61
40:BS:43:GLN:OE1	40:BS:43:GLN:N	2.30	0.61
40:BS:6:LEU:O	40:BS:9:LEU:HB2	2.01	0.61
41:BT:81:HIS:HB3	41:BT:117:GLN:OE1	2.01	0.61
41:BT:53:ARG:O	41:BT:56:ASP:HB2	2.01	0.61
41:BT:88:ILE:HG12	42:BU:52:VAL:CG1	2.31	0.61
41:BT:89:GLU:CD	42:BU:52:VAL:HB	2.21	0.61
43:BV:72:LYS:O	43:BV:106:ILE:HG22	2.00	0.61
44:BW:36:LYS:CD	44:BW:39:ILE:HD12	2.30	0.61
44:BW:29:TRP:CE3	44:BW:76:ARG:HG3	2.36	0.61
44:BW:89:ILE:HG23	44:BW:92:LEU:HD22	1.83	0.61
46:BY:115:GLY:O	46:BY:117:LEU:HD12	2.00	0.61
46:BY:137:ILE:C	46:BY:138:GLU:HG3	2.21	0.61
46:BY:24:LEU:HD13	46:BY:83:PRO:CG	2.29	0.61
3:AB:72:C:H2'	3:AB:73:A:H8	1.65	0.61
25:BB:93:C:H2'	25:BB:94:C:H6	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1126:U:C2	1:AA:1127:G:C8	2.89	0.60
1:AA:1180:A:O2'	1:AA:1181:G:H5'	2.00	0.60
1:AA:1314:C:O5'	21:AV:6:LYS:HG2	1.99	0.60
1:AA:1389:C:H2'	1:AA:1390:U:C5'	2.31	0.60
1:AA:186(E):C:O2'	1:AA:186(F):C:H5'	2.01	0.60
1:AA:221:C:H2'	1:AA:222:U:H6	1.66	0.60
1:AA:409:G:H5''	6:AG:24:GLU:OE1	2.01	0.60
1:AA:571:U:C6	1:AA:571:U:H5''	2.35	0.60
1:AA:64:G:N2	1:AA:67:C:C4	2.69	0.60
1:AA:685:G:H2'	1:AA:686:U:C6	2.36	0.60
1:AA:690:G:N3	1:AA:690:G:H2'	2.15	0.60
1:AA:801:U:H2'	1:AA:801:U:O2	2.00	0.60
1:AA:766:A:N7	1:AA:814:A:C6	2.69	0.60
1:AA:765:G:N2	1:AA:816:A:C2	2.69	0.60
1:AA:854:G:P	1:AA:871:U:O2	2.59	0.60
1:AA:857:C:O2'	1:AA:858:G:H5'	2.00	0.60
3:AC:76:A:H3'	3:AC:76:A:C8	2.35	0.60
3:AD:71:G:OP1	24:BA:1893:C:H5'	2.01	0.60
4:AE:115:LEU:HD12	4:AE:118:LEU:CD1	2.28	0.60
4:AE:19:HIS:HB3	4:AE:189:ASP:OD2	2.00	0.60
4:AE:35:GLU:O	4:AE:36:ARG:NE	2.35	0.60
6:AG:58:LEU:CD1	6:AG:59:ARG:NH1	2.64	0.60
7:AH:77:PRO:O	7:AH:93:PRO:HG3	2.01	0.60
8:AI:33:TYR:CE2	8:AI:75:LEU:N	2.69	0.60
8:AI:80:ARG:CG	8:AI:88:VAL:HG21	2.29	0.60
10:AK:51:VAL:HG12	10:AK:52:ASP:N	2.16	0.60
12:AM:12:ASP:OD1	12:AM:14:LYS:HB2	2.01	0.60
14:AO:34:ARG:HG3	14:AO:105:TYR:CE1	2.36	0.60
15:AP:4:ILE:O	15:AP:5:ALA:HB3	2.01	0.60
17:AR:43:LEU:HD11	17:AR:56:LEU:CD2	2.31	0.60
18:AS:19:ILE:HD12	18:AS:38:TYR:N	2.16	0.60
18:AS:4:ILE:CG2	18:AS:21:VAL:HG13	2.30	0.60
1:AA:761:G:H1'	19:AT:104:LYS:O	2.01	0.60
19:AT:7:THR:HG22	19:AT:56:VAL:HG12	1.83	0.60
19:AT:59:ILE:CD1	19:AT:72:ARG:N	2.64	0.60
19:AT:58:GLU:OE2	19:AT:74:LEU:HB3	2.01	0.60
49:B2:23:LEU:HA	49:B2:28:LEU:HD12	1.83	0.60
50:B3:23:GLU:C	50:B3:25:TYR:N	2.54	0.60
51:B4:36:CYS:HB2	51:B4:37:LYS:CD	2.31	0.60
55:B8:7:VAL:CG1	55:B8:36:GLN:HE22	2.10	0.60
55:B8:9:ARG:NH2	55:B8:16:VAL:HG11	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1044:G:O6	24:BA:1112:G:N3	2.34	0.60
24:BA:1050:A:C8	24:BA:1051:G:C8	2.89	0.60
24:BA:1142(A):A:H3'	24:BA:1143:A:H5''	1.83	0.60
24:BA:1279:G:H2'	24:BA:1280:G:H8	1.65	0.60
24:BA:139:G:C2'	24:BA:140:A:O5'	2.49	0.60
24:BA:140:A:C2	24:BA:1408:C:O2	2.53	0.60
24:BA:150:C:O2	24:BA:150:C:C2'	2.49	0.60
24:BA:1602:U:C2'	24:BA:1603:A:O5'	2.49	0.60
24:BA:1687:G:C2	24:BA:1688:U:C5	2.89	0.60
24:BA:1764:G:O2'	24:BA:1765:C:C5'	2.45	0.60
24:BA:1796:U:C2	24:BA:1797:C:C5	2.90	0.60
24:BA:1925:C:H2'	24:BA:1926:U:O5'	2.00	0.60
24:BA:1993:U:C2	24:BA:1994:C:C5	2.89	0.60
24:BA:2085:C:H2'	24:BA:2086:U:O4'	2.01	0.60
24:BA:2259:G:C2	24:BA:2282:G:C6	2.89	0.60
24:BA:2360:A:C8	24:BA:2361:A:C8	2.89	0.60
24:BA:2497:A:C2'	24:BA:2498:C:OP2	2.49	0.60
24:BA:2629:A:C6	24:BA:2895:U:C2	2.89	0.60
24:BA:539:G:H2'	24:BA:540:G:H8	1.66	0.60
24:BA:628:G:P	24:BA:628:G:H8	2.24	0.60
24:BA:675:A:O2'	24:BA:2443:C:H4'	2.01	0.60
24:BA:718:A:C8	24:BA:719:C:C6	2.89	0.60
24:BA:823:G:C6	24:BA:835:A:C6	2.88	0.60
24:BA:887:A:O2'	24:BA:889:C:C6	2.54	0.60
24:BA:957:A:C5	24:BA:959:A:C8	2.89	0.60
25:BB:30:C:H2'	25:BB:31:C:C5'	2.28	0.60
25:BB:73:A:N1	46:BY:29:TYR:CE1	2.69	0.60
25:BB:75:G:H2'	46:BY:85:HIS:CE1	2.32	0.60
27:BD:127:VAL:CA	27:BD:193:VAL:HG12	2.17	0.60
28:BE:124:GLY:HA3	28:BE:136:ARG:HB3	1.81	0.60
28:BE:136:ARG:CZ	28:BE:137:HIS:HA	2.30	0.60
28:BE:13:ARG:CZ	28:BE:20:ALA:CB	2.79	0.60
28:BE:154:LYS:HD2	28:BE:155:LYS:O	2.01	0.60
28:BE:81:ILE:HG22	28:BE:82:ARG:H	1.63	0.60
29:BF:34:TRP:CH2	36:BO:8:PRO:HD2	2.36	0.60
30:BG:139:LEU:HD13	30:BG:142:PRO:CB	2.31	0.60
30:BG:7:LEU:HD22	30:BG:11:TYR:CE1	2.29	0.60
30:BG:72:ARG:C	30:BG:88:ILE:HD11	2.21	0.60
31:BH:68:THR:HG22	31:BH:72:ILE:HD12	1.82	0.60
34:BM:88:GLU:HB2	34:BM:89:LYS:NZ	2.16	0.60
35:BN:63:VAL:HG23	35:BN:64:ARG:N	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:49:ARG:C	36:BO:52:GLU:HG2	2.21	0.60
37:BP:106:VAL:O	37:BP:107:ALA:HB2	2.00	0.60
38:BQ:110:PRO:O	38:BQ:111:LEU:HD23	2.01	0.60
38:BQ:32:GLY:O	38:BQ:115:GLU:CB	2.32	0.60
38:BQ:67:LEU:HD13	38:BQ:67:LEU:C	2.21	0.60
38:BQ:96:ARG:O	38:BQ:114:VAL:HG13	2.01	0.60
39:BR:17:ARG:O	39:BR:20:ARG:CG	2.49	0.60
39:BR:95:HIS:ND1	39:BR:96:GLY:N	2.49	0.60
40:BS:57:PHE:N	40:BS:57:PHE:HD2	1.98	0.60
41:BT:111:GLU:CA	41:BT:114:LYS:HZ1	2.13	0.60
24:BA:1248:G:C8	41:BT:2:PRO:CA	2.81	0.60
42:BU:6:LYS:NZ	42:BU:10:LYS:HB3	2.16	0.60
43:BV:75:TYR:O	43:BV:104:THR:CG2	2.49	0.60
46:BY:116:VAL:HG21	46:BY:145:GLU:CG	2.30	0.60
24:BA:2278:A:N7	47:BZ:14:ARG:HG3	2.15	0.60
47:BZ:38:VAL:HG12	47:BZ:45:PHE:CE1	2.36	0.60
3:AD:63:G:H2'	3:AD:64:A:H8	1.66	0.60
26:BC:10:LEU:O	26:BC:13:LYS:HB2	2.01	0.60
26:BC:26:ALA:CB	26:BC:185:LEU:HB2	2.31	0.60
6:AG:43:HIS:O	6:AG:46:LYS:HB2	1.99	0.60
33:BL:138:VAL:O	33:BL:139:VAL:CG2	2.47	0.60
39:BR:56:LEU:HB3	39:BR:59:LYS:NZ	2.16	0.60
14:AO:43:VAL:HG12	14:AO:44:THR:O	2.01	0.60
1:AA:1400:C:C4'	1:AA:1401:G:OP2	2.49	0.60
1:AA:155:C:O2'	1:AA:156:G:H5'	2.01	0.60
1:AA:169:C:O2'	1:AA:170:U:H5'	2.01	0.60
1:AA:129(A):G:N2	1:AA:191(A):G:C4	2.69	0.60
1:AA:293:G:N3	1:AA:293:G:H2'	2.15	0.60
1:AA:383:A:H2'	1:AA:384:G:O4'	2.00	0.60
1:AA:789:U:C6	1:AA:789:U:H3'	2.36	0.60
1:AA:797:C:HO2'	1:AA:798:G:H5'	1.66	0.60
3:AC:46:G:N3	3:AC:46:G:H2'	2.17	0.60
4:AE:138:LEU:O	4:AE:141:GLU:HB3	2.01	0.60
4:AE:142:LEU:HD23	4:AE:142:LEU:O	2.01	0.60
4:AE:146:GLN:O	4:AE:148:TYR:N	2.34	0.60
4:AE:175:ARG:HD2	4:AE:179:LYS:NZ	2.16	0.60
4:AE:163:PHE:CZ	4:AE:186:ALA:HA	2.36	0.60
4:AE:208:ILE:HA	4:AE:211:ILE:HD12	1.83	0.60
4:AE:40:HIS:C	4:AE:41:ILE:HD12	2.21	0.60
4:AE:77:ALA:O	4:AE:80:ILE:N	2.34	0.60
4:AE:92:TYR:H	4:AE:152:PHE:HA	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:36:ASP:OD2	5:AF:40:ARG:NH1	2.34	0.60
5:AF:8:ILE:O	5:AF:11:ARG:N	2.33	0.60
6:AG:102:ASP:HB2	6:AG:136:PRO:O	2.01	0.60
6:AG:170:VAL:HG12	6:AG:171:GLY:N	2.17	0.60
7:AH:15:ARG:CZ	7:AH:26:PHE:CE2	2.83	0.60
8:AI:10:LEU:HD11	8:AI:61:LEU:CD1	2.31	0.60
8:AI:75:LEU:HD23	8:AI:78:GLU:HB3	1.82	0.60
9:AJ:26:PHE:CD2	9:AJ:43:PHE:HE1	2.19	0.60
9:AJ:6:ARG:HA	9:AJ:6:ARG:NH1	2.16	0.60
12:AM:39:PRO:O	12:AM:69:ASN:O	2.19	0.60
12:AM:18:ALA:CB	12:AM:91:PRO:HB3	2.23	0.60
13:AN:28:THR:HG22	13:AN:29:ILE:N	2.16	0.60
13:AN:92:GLU:O	13:AN:93:GLN:C	2.39	0.60
15:AP:20:THR:HA	15:AP:25:ILE:HG22	1.81	0.60
5:AF:33:LEU:CG	16:AQ:54:PRO:HD2	2.31	0.60
17:AR:49:ASP:OD1	17:AR:52:SER:HB2	2.01	0.60
20:AU:67:ALA:O	20:AU:70:ILE:N	2.34	0.60
21:AV:24:ALA:C	21:AV:26:GLY:H	2.04	0.60
21:AV:47:HIS:H	21:AV:62:ILE:CG2	2.13	0.60
21:AV:46:GLY:HA2	21:AV:62:ILE:O	2.01	0.60
22:AW:49:ALA:HA	22:AW:92:LEU:CD2	2.26	0.60
49:B2:29:ARG:CB	49:B2:30:ARG:CZ	2.79	0.60
50:B3:22:ILE:HD13	50:B3:30:GLU:OE1	2.01	0.60
51:B4:44:THR:C	51:B4:52:TYR:HH	2.05	0.60
54:B7:26:LYS:HB2	54:B7:44:LYS:HZ1	1.65	0.60
54:B7:53:PRO:HA	54:B7:56:GLU:CG	2.31	0.60
24:BA:1083:U:O2'	24:BA:1084:A:C8	2.50	0.60
24:BA:1458:C:H4'	24:BA:1459:G:N7	2.15	0.60
24:BA:1780:A:OP2	24:BA:1782:C:OP2	2.19	0.60
24:BA:1964:G:O2'	24:BA:1965:C:OP1	2.17	0.60
24:BA:1996:C:OP1	24:BA:1996:C:C6	2.54	0.60
24:BA:2053:G:C2'	24:BA:2054:A:O5'	2.49	0.60
24:BA:2570:G:C5'	24:BA:2571:C:OP2	2.47	0.60
24:BA:2618:G:C2	24:BA:2619:C:C5	2.89	0.60
24:BA:2790:A:H2	24:BA:2894:G:N7	1.98	0.60
24:BA:324:A:N3	24:BA:324:A:H2'	2.16	0.60
24:BA:557:U:H2'	24:BA:558:G:O4'	2.01	0.60
24:BA:586:A:C6	24:BA:810:U:H5'	2.37	0.60
24:BA:942:G:H5'	36:BO:32:THR:HG23	1.82	0.60
24:BA:944:G:H4'	24:BA:945:A:O5'	2.02	0.60
24:BA:976:C:N4	24:BA:988:A:N3	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:146:GLU:HA	27:BD:154:LYS:HG2	1.81	0.60
27:BD:176:ARG:HG3	27:BD:176:ARG:NH1	2.09	0.60
27:BD:223:GLY:C	27:BD:225:ALA:N	2.55	0.60
28:BE:9:VAL:HG12	28:BE:192:ASN:ND2	2.14	0.60
29:BF:119:ARG:NH2	29:BF:120:GLU:OE1	2.34	0.60
29:BF:36:VAL:O	29:BF:184:TYR:OH	2.19	0.60
29:BF:64:ILE:CD1	29:BF:65:TRP:N	2.59	0.60
30:BG:123:ASN:HB2	30:BG:126:ASP:HB2	1.83	0.60
30:BG:119:GLY:HA3	30:BG:180:PHE:CZ	2.35	0.60
31:BH:83:TYR:HB2	31:BH:136:ILE:O	2.00	0.60
31:BH:143:GLN:O	31:BH:146:ALA:HB3	2.01	0.60
33:BL:101:TRP:CZ3	33:BL:105:LEU:HD21	2.36	0.60
24:BA:1059:G:H5'	33:BL:116:ASN:HD22	1.66	0.60
34:BM:16:ILE:C	34:BM:54:VAL:HG23	2.22	0.60
34:BM:68:GLU:H	34:BM:70:LYS:CE	2.14	0.60
24:BA:2024:G:HO2'	34:BM:78:TYR:HH	1.41	0.60
35:BN:23:ARG:NH1	35:BN:23:ARG:HB2	2.04	0.60
36:BO:52:GLU:O	36:BO:55:ARG:N	2.34	0.60
36:BO:76:LYS:CE	36:BO:99:LEU:HD11	2.31	0.60
37:BP:76:LYS:HD2	37:BP:76:LYS:C	2.21	0.60
39:BR:39:ILE:HD11	39:BR:77:ALA:HB2	1.83	0.60
39:BR:9:ARG:HH11	39:BR:9:ARG:H	1.48	0.60
40:BS:110:ILE:HB	40:BS:113:LYS:HG3	1.82	0.60
42:BU:66:ARG:NE	42:BU:95:LEU:HB2	2.09	0.60
42:BU:18:LEU:HA	42:BU:96:ILE:O	2.00	0.60
43:BV:72:LYS:O	43:BV:106:ILE:O	2.19	0.60
44:BW:92:LEU:HA	44:BW:95:LEU:HD12	1.83	0.60
45:BX:97:ARG:NH2	45:BX:101:LYS:HD3	2.16	0.60
45:BX:1:MET:HE2	45:BX:67:LEU:HB3	1.83	0.60
32:BK:127:VAL:CG2	32:BK:141:LYS:HA	2.18	0.60
32:BK:75:LEU:O	32:BK:141:LYS:NZ	2.27	0.60
1:AA:161:A:N6	1:AA:162:A:C6	2.70	0.60
24:BA:1510:A:H3'	24:BA:1511:A:C5	2.36	0.60
1:AA:1005:A:C1'	1:AA:1036:G:N2	2.63	0.60
1:AA:1232:U:OP1	11:AL:125:TYR:O	2.19	0.60
1:AA:129(A):G:C2	1:AA:188:U:O2'	2.53	0.60
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.01	0.60
1:AA:1370:G:H5''	11:AL:12:GLU:CD	2.22	0.60
1:AA:245:C:C2	1:AA:284:G:C2	2.89	0.60
1:AA:600:C:C2	1:AA:639:G:N2	2.69	0.60
1:AA:890:G:O2'	1:AA:891:U:P	2.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:91:C:C2	1:AA:92:G:C8	2.89	0.60
1:AA:944:G:H8	1:AA:944:G:O5'	1.85	0.60
1:AA:986:A:C4'	21:AV:55:LYS:HG3	2.32	0.60
3:AB:52:G:O2'	3:AB:53:G:O4'	2.18	0.60
3:AC:73:A:H2'	3:AC:74:C:OP1	2.01	0.60
4:AE:115:LEU:HB2	4:AE:145:LEU:CG	2.31	0.60
5:AF:11:ARG:O	5:AF:14:ILE:HB	2.02	0.60
1:AA:619:U:N3	6:AG:135:LEU:HD21	2.16	0.60
6:AG:31:CYS:SG	6:AG:33:MET:CG	2.89	0.60
10:AK:1:MET:CG	10:AK:2:LEU:H	2.14	0.60
10:AK:17:THR:HG21	10:AK:80:ILE:CG2	2.32	0.60
11:AL:38:GLN:C	11:AL:40:LEU:N	2.53	0.60
12:AM:6:ILE:O	12:AM:71:LEU:HD13	2.00	0.60
12:AM:75:ILE:HG22	12:AM:76:ASN:N	2.16	0.60
1:AA:1230:C:O2	15:AP:126:LYS:CG	2.50	0.60
15:AP:22:ILE:HB	15:AP:25:ILE:CG1	2.31	0.60
15:AP:14:ARG:H	15:AP:44:ARG:HD2	1.65	0.60
15:AP:66:LEU:C	15:AP:70:LEU:HB2	2.22	0.60
15:AP:98:VAL:H	15:AP:110:ARG:HH21	1.49	0.60
1:AA:1316:G:H5''	16:AQ:17:LYS:NZ	2.17	0.60
16:AQ:26:ARG:CB	16:AQ:43:CYS:CB	2.79	0.60
16:AQ:54:PRO:O	16:AQ:56:VAL:N	2.35	0.60
18:AS:18:ARG:NH1	18:AS:35:LYS:CB	2.47	0.60
18:AS:20:VAL:C	18:AS:36:ILE:HD11	2.21	0.60
18:AS:75:ARG:HA	18:AS:80:PHE:CB	2.31	0.60
1:AA:189:U:H2'	19:AT:63:ARG:NH2	2.16	0.60
20:AU:53:ARG:HD3	20:AU:63:GLN:NE2	2.16	0.60
21:AV:22:LEU:HD23	21:AV:22:LEU:C	2.21	0.60
50:B3:65:ASP:HA	50:B3:68:ARG:CZ	2.31	0.60
51:B4:9:LYS:HD3	51:B4:10:LYS:H	1.64	0.60
54:B7:8:LYS:N	54:B7:11:LYS:HE3	2.16	0.60
54:B7:50:LEU:O	54:B7:53:PRO:HD2	2.00	0.60
24:BA:1127:A:H8	24:BA:1127:A:H3'	1.65	0.60
24:BA:1176:G:H5''	24:BA:1177:A:C8	2.36	0.60
24:BA:1207:C:C2	24:BA:1208:C:C5	2.89	0.60
24:BA:1388:G:H2'	24:BA:1389:G:C8	2.34	0.60
24:BA:1431:U:C2'	24:BA:1432:C:H5'	2.30	0.60
24:BA:1447:G:H1'	24:BA:1545(A):A:H1'	1.82	0.60
24:BA:1557:C:C2'	24:BA:1558:A:H8	2.04	0.60
24:BA:1691:C:C2'	24:BA:1692:U:H5'	2.31	0.60
24:BA:1937:A:H2'	24:BA:1938:A:OP1	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1834:U:H1'	24:BA:1969:A:H2	1.63	0.60
24:BA:218:A:N1	24:BA:235:U:O2'	2.25	0.60
24:BA:2271:G:H8	24:BA:2271:G:O5'	1.84	0.60
24:BA:2307:G:OP2	24:BA:2307:G:H8	1.84	0.60
24:BA:2358:G:N3	24:BA:2358:G:H2'	2.15	0.60
3:AB:63:G:C4'	24:BA:2482:G:O3'	2.38	0.60
24:BA:2522:U:O2	24:BA:2765:A:N6	2.34	0.60
24:BA:2695:C:H2'	24:BA:2696:U:H5	1.63	0.60
24:BA:2831:G:O4'	24:BA:2883:A:C2	2.53	0.60
24:BA:319:C:C2'	24:BA:320:A:O4'	2.49	0.60
24:BA:343:C:C2'	24:BA:344:G:C5'	2.75	0.60
24:BA:572:A:H2'	24:BA:573:G:C1'	2.31	0.60
24:BA:594:U:H2'	24:BA:595:C:H6	1.61	0.60
24:BA:613:U:H5	24:BA:614:U:O2	1.83	0.60
24:BA:614:U:H5''	24:BA:615:G:OP2	2.02	0.60
24:BA:627:A:C4	24:BA:637:A:C4	2.88	0.60
24:BA:669:G:H5''	24:BA:670:A:OP2	2.01	0.60
24:BA:72:U:C5	24:BA:112:U:O2	2.54	0.60
24:BA:744:G:H2'	24:BA:745:G:C8	2.35	0.60
24:BA:788:A:O2'	24:BA:789:A:OP2	2.17	0.60
24:BA:804:A:C5'	24:BA:805:G:OP1	2.48	0.60
24:BA:890:A:H4'	24:BA:892:G:H5'	1.84	0.60
24:BA:899:A:H61	24:BA:900:A:N6	1.99	0.60
24:BA:944:G:C5'	24:BA:945:A:H5''	2.24	0.60
24:BA:977:G:N3	24:BA:978:G:H1'	2.15	0.60
25:BB:25:A:O2'	25:BB:26:A:H5'	2.01	0.60
25:BB:3:C:H2'	25:BB:4:C:C6	2.36	0.60
27:BD:196:VAL:CG1	27:BD:197:GLY:N	2.31	0.60
27:BD:55:GLY:H	27:BD:219:PRO:HD2	1.62	0.60
28:BE:37:ARG:HB2	28:BE:40:GLU:HB2	1.83	0.60
30:BG:144:ILE:HD12	30:BG:147:ASP:CG	2.21	0.60
30:BG:135:LEU:CD1	30:BG:155:MET:HB2	2.32	0.60
30:BG:13:GLU:O	30:BG:17:PRO:HD2	2.01	0.60
30:BG:6:ALA:HA	30:BG:9:ARG:NE	2.17	0.60
30:BG:75:LYS:NZ	30:BG:87:PRO:HD3	2.15	0.60
30:BG:6:ALA:CA	30:BG:9:ARG:NH2	2.64	0.60
32:BK:5:LEU:HB2	32:BK:8:PRO:CG	2.30	0.60
33:BL:27:LEU:HD22	33:BL:32:ALA:CB	2.31	0.60
34:BM:75:TYR:O	34:BM:76:SER:O	2.19	0.60
35:BN:25:LEU:N	35:BN:39:ILE:HG22	2.14	0.60
35:BN:32:TYR:O	35:BN:34:THR:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:97:ARG:CG	35:BN:117:LEU:CD2	2.79	0.60
35:BN:97:ARG:NH1	35:BN:98:VAL:CA	2.64	0.60
24:BA:623:G:H8	36:BO:105:LEU:CB	2.15	0.60
36:BO:23:PRO:HB2	36:BO:29:LYS:H	1.65	0.60
24:BA:636:G:H22	36:BO:75:ILE:HG23	1.64	0.60
37:BP:64:ILE:HG23	37:BP:106:VAL:O	2.01	0.60
37:BP:39:PRO:HG3	37:BP:127:ILE:CG1	2.31	0.60
37:BP:45:GLN:HA	37:BP:48:GLU:CG	2.30	0.60
38:BQ:20:LEU:CD1	38:BQ:20:LEU:C	2.67	0.60
38:BQ:33:ARG:HH21	51:B4:56:LYS:HE2	1.67	0.60
38:BQ:38:VAL:CB	38:BQ:39:PRO:CD	2.77	0.60
41:BT:59:ARG:O	41:BT:62:ILE:N	2.34	0.60
42:BU:5:VAL:HG13	42:BU:39:LEU:HA	1.83	0.60
41:BT:47:TYR:CZ	42:BU:76:LYS:C	2.74	0.60
24:BA:2009:G:H5''	43:BV:41:LYS:CG	2.32	0.60
24:BA:1340:U:H5	44:BW:57:LEU:CG	2.14	0.60
45:BX:1:MET:HG2	45:BX:33:LYS:HG3	1.84	0.60
46:BY:23:LYS:NZ	46:BY:38:TYR:O	2.33	0.60
32:BK:81:VAL:HG21	32:BK:123:LEU:HD13	1.84	0.60
3:AD:47:U:H2'	3:AD:48:C:C5'	2.21	0.60
24:BA:2112:G:H5''	24:BA:2113:U:OP2	2.01	0.60
26:BC:100:ILE:HA	26:BC:127:LEU:HD11	1.82	0.60
26:BC:97:GLU:OE1	26:BC:122:ALA:HB2	2.01	0.60
1:AA:1010:G:C2	1:AA:1020:U:H1'	2.37	0.60
1:AA:1010:G:N2	1:AA:1020:U:C1'	2.61	0.60
2:A1:34:U:H6	2:A1:34:U:H3'	1.65	0.60
1:AA:1005:A:C3'	1:AA:1006:C:H6	2.09	0.60
1:AA:1346:A:C8	1:AA:1348:U:C2	2.88	0.60
1:AA:1319:A:C2	1:AA:1361:G:N2	2.70	0.60
1:AA:1411:C:C2	1:AA:1412:C:C5	2.90	0.60
1:AA:129(A):G:H2'	1:AA:189:U:C5	2.36	0.60
1:AA:173:U:H4'	1:AA:197:A:H1'	1.83	0.60
1:AA:244:U:O2'	1:AA:245:C:P	2.60	0.60
1:AA:274:A:H5'	1:AA:275:G:OP1	2.01	0.60
1:AA:357:G:OP1	1:AA:367:U:H3'	2.01	0.60
1:AA:594:G:H3'	1:AA:595:G:O4'	2.01	0.60
1:AA:777:A:C4	1:AA:778:G:C8	2.89	0.60
1:AA:794:A:H2'	1:AA:795:C:C6	2.37	0.60
4:AE:162:ILE:O	4:AE:185:ILE:HD13	2.01	0.60
4:AE:56:ARG:O	4:AE:59:GLU:HG3	2.02	0.60
4:AE:70:PHE:HB3	4:AE:163:PHE:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:20:TYR:CB	6:AG:26:CYS:O	2.49	0.60
7:AH:94:ALA:CB	7:AH:119:LEU:HD21	2.31	0.60
7:AH:45:PHE:HE1	7:AH:47:LYS:HD2	1.65	0.60
13:AN:20:TYR:HE1	13:AN:33:THR:HG1	1.47	0.60
14:AO:38:THR:HG22	14:AO:58:VAL:HA	1.82	0.60
14:AO:56:ALA:CB	14:AO:68:ALA:O	2.36	0.60
15:AP:18:ALA:HB2	15:AP:45:VAL:HG21	1.83	0.60
18:AS:58:TYR:HD1	18:AS:59:TRP:N	1.98	0.60
21:AV:27:GLU:HG2	21:AV:28:LYS:H	1.63	0.60
52:B5:9:LEU:HD13	52:B5:27:LYS:HA	1.82	0.60
24:BA:1022:G:O2'	24:BA:1023:U:P	2.59	0.60
24:BA:1071:G:C2'	24:BA:1072:C:H5''	2.30	0.60
24:BA:1188:U:O2	24:BA:1189:A:O4'	2.19	0.60
24:BA:1322:A:H2'	24:BA:1323:U:H5'	1.84	0.60
24:BA:1366:A:C2	24:BA:1367:A:N3	2.69	0.60
24:BA:1620:G:O2'	24:BA:1621:U:H5'	2.01	0.60
24:BA:1675:C:C2'	24:BA:1676:A:H5'	2.32	0.60
24:BA:197:A:H3'	24:BA:198:C:C5	2.36	0.60
24:BA:2209:C:OP2	24:BA:2210:G:OP2	2.20	0.60
24:BA:2216:G:O2'	24:BA:2217:G:H5'	2.01	0.60
24:BA:230:U:O2'	24:BA:231:C:O4'	2.19	0.60
24:BA:2371:G:N2	24:BA:2372:G:C5	2.69	0.60
24:BA:2071:A:H2	24:BA:2441:C:N3	1.99	0.60
24:BA:2582:G:C2	24:BA:2583:G:H1'	2.35	0.60
24:BA:2696:U:C2'	24:BA:2697:G:O5'	2.48	0.60
24:BA:270(Z):U:C4	24:BA:271(C):U:H1'	2.36	0.60
24:BA:1050:A:N6	24:BA:2751:G:N1	2.49	0.60
24:BA:298:G:H1	24:BA:338:G:HO2'	1.45	0.60
24:BA:13:A:C2	24:BA:526:A:N6	2.68	0.60
24:BA:684:G:H5''	24:BA:684:G:H8	1.65	0.60
24:BA:712:G:C5	24:BA:713:G:N7	2.68	0.60
24:BA:728:G:H22	24:BA:762:U:P	2.24	0.60
24:BA:805:G:H1'	24:BA:831:G:O2'	2.01	0.60
25:BB:23:G:N2	25:BB:61:G:C5	2.70	0.60
27:BD:34:VAL:N	27:BD:104:TYR:OH	2.34	0.60
27:BD:105:ILE:CD1	27:BD:106:ILE:H	2.06	0.60
27:BD:171:ASP:O	27:BD:186:HIS:CA	2.44	0.60
27:BD:58:HIS:O	27:BD:59:LYS:CE	2.49	0.60
27:BD:61:LEU:HB3	27:BD:86:PRO:HG2	1.82	0.60
28:BE:4:ILE:CD1	28:BE:76:ARG:NH2	2.64	0.60
28:BE:47:VAL:HG22	28:BE:79:ARG:CG	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:185:ASP:O	29:BF:188:ARG:HG3	2.01	0.60
29:BF:41:LEU:CA	29:BF:44:ARG:NE	2.63	0.60
31:BH:150:ALA:O	31:BH:152:ARG:N	2.34	0.60
31:BH:37:VAL:HG22	31:BH:37:VAL:O	2.01	0.60
31:BH:59:ARG:O	31:BH:62:LYS:HG2	2.02	0.60
31:BH:85:LYS:HB2	31:BH:85:LYS:NZ	2.16	0.60
32:BK:31:LEU:HD22	32:BK:36:ALA:N	2.16	0.60
32:BK:9:LEU:HA	32:BK:17:GLN:OE1	1.99	0.60
34:BM:74:ARG:CD	34:BM:82:LEU:HD13	2.31	0.60
35:BN:31:LYS:HB3	35:BN:32:TYR:CZ	2.36	0.60
35:BN:3:GLN:CD	35:BN:33:ALA:HB3	2.20	0.60
35:BN:58:VAL:O	35:BN:59:LYS:HB3	2.01	0.60
36:BO:112:LEU:O	36:BO:129:ALA:HB3	2.01	0.60
24:BA:2483:C:N3	37:BP:124:LYS:HE2	2.16	0.60
38:BQ:10:LEU:HB2	38:BQ:17:ARG:CZ	2.32	0.60
38:BQ:53:HIS:O	38:BQ:56:LYS:HE2	2.02	0.60
39:BR:76:LYS:O	39:BR:80:LEU:HD23	2.01	0.60
40:BS:95:ARG:NH2	40:BS:95:ARG:CB	2.64	0.60
41:BT:88:ILE:HB	42:BU:52:VAL:HG13	1.83	0.60
43:BV:72:LYS:O	43:BV:106:ILE:CG2	2.49	0.60
44:BW:50:LYS:NZ	44:BW:85:PRO:HD2	2.15	0.60
44:BW:5:TYR:CB	48:B1:24:LYS:HD3	2.29	0.60
44:BW:50:LYS:HZ3	44:BW:85:PRO:HG2	1.67	0.60
46:BY:127:LYS:CE	46:BY:165:VAL:HB	2.31	0.60
46:BY:39:VAL:HG13	46:BY:44:PHE:CG	2.36	0.60
26:BC:20:TYR:O	26:BC:225:ASN:HB3	2.01	0.60
2:A1:21:G:H2'	2:A1:22:C:C6	2.37	0.60
1:AA:1171:G:HO2'	1:AA:1172:C:H6	1.49	0.60
34:BM:6:PRO:HA	34:BM:41:ASP:CG	2.21	0.60
38:BQ:60:LEU:HD23	38:BQ:60:LEU:H	1.65	0.60
1:AA:107:G:C6	22:AW:15:ARG:NH2	2.69	0.60
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.01	0.60
1:AA:1196:U:C6	1:AA:1196:U:H3'	2.36	0.60
1:AA:1376:U:O2	1:AA:1377:A:N6	2.35	0.60
1:AA:67:C:H4'	1:AA:172:A:C1'	2.32	0.60
1:AA:130:A:H4'	1:AA:190:G:C4	2.37	0.60
1:AA:227:G:H2'	1:AA:228:A:C8	2.36	0.60
1:AA:229:U:H2'	1:AA:230:G:C8	2.37	0.60
1:AA:404:U:H4'	6:AG:122:ARG:NH1	2.16	0.60
1:AA:538:G:N2	1:AA:539:A:H1'	2.17	0.60
1:AA:594:G:C5	1:AA:595:G:N3	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:597:G:H2'	1:AA:598:U:C5'	2.31	0.60
1:AA:599:C:O2'	10:AK:130:GLY:N	2.34	0.60
1:AA:620:C:C4	6:AG:135:LEU:HD22	2.36	0.60
1:AA:877:C:O2'	1:AA:878:G:H5'	2.02	0.60
1:AA:890:G:O2'	1:AA:891:U:C6	2.53	0.60
3:AB:22:G:N7	3:AB:46:G:N2	2.50	0.60
5:AF:156:ARG:NH2	5:AF:160:ALA:O	2.34	0.60
5:AF:48:TYR:HD2	5:AF:48:TYR:O	1.85	0.60
6:AG:128:VAL:HG12	6:AG:129:ASN:N	2.17	0.60
6:AG:32:ALA:HB3	6:AG:33:MET:HE3	1.83	0.60
6:AG:65:ARG:HG3	6:AG:72:GLU:OE1	2.01	0.60
7:AH:18:ARG:H	7:AH:26:PHE:HB3	1.65	0.60
9:AJ:87:VAL:HG21	9:AJ:154:TYR:HB2	1.82	0.60
10:AK:119:LEU:HB3	10:AK:124:ALA:HB2	1.83	0.60
10:AK:37:ARG:HD2	10:AK:38:ILE:N	2.16	0.60
10:AK:70:GLN:NE2	10:AK:71:GLY:N	2.47	0.60
10:AK:87:SER:HB3	10:AK:93:VAL:H	1.64	0.60
12:AM:9:ARG:C	12:AM:94:VAL:HG13	2.21	0.60
13:AN:26:ASN:O	13:AN:27:ASN:HB2	2.02	0.60
13:AN:45:GLY:O	13:AN:50:TYR:HB2	2.02	0.60
1:AA:33:A:N3	14:AO:32:PHE:CZ	2.70	0.60
15:AP:13:LYS:HA	15:AP:44:ARG:CZ	2.31	0.60
15:AP:98:VAL:CB	15:AP:110:ARG:HH21	2.14	0.60
20:AU:34:TYR:HD1	20:AU:35:ARG:N	1.99	0.60
20:AU:34:TYR:CD1	20:AU:35:ARG:N	2.69	0.60
21:AV:12:ASP:O	21:AV:16:LEU:HD22	2.01	0.60
48:B1:30:LEU:O	48:B1:33:GLN:N	2.35	0.60
24:BA:111:A:H4'	48:B1:60:ASN:OD1	2.01	0.60
50:B3:8:LYS:HG2	50:B3:9:LEU:N	2.12	0.60
51:B4:4:HIS:CG	51:B4:5:PRO:HD3	2.36	0.60
53:B6:43:THR:CG2	53:B6:46:VAL:HB	2.31	0.60
24:BA:1044:G:C6	24:BA:1112:G:N3	2.70	0.60
24:BA:1138:G:N2	24:BA:1139:G:N3	2.49	0.60
24:BA:123:G:H2'	24:BA:124:G:C8	2.36	0.60
24:BA:1264:G:C6	24:BA:1265:A:C5	2.90	0.60
24:BA:1534:G:H21	24:BA:1537:C:N4	1.99	0.60
24:BA:1554:A:HO2'	24:BA:1555:G:P	2.25	0.60
24:BA:1616:A:H5''	24:BA:1617:C:OP1	2.01	0.60
24:BA:1746:G:H2'	24:BA:1747:G:H8	1.67	0.60
24:BA:1780:A:OP2	24:BA:1782:C:OP1	2.19	0.60
24:BA:188:G:OP2	50:B3:13:ARG:CZ	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1939:U:C2'	24:BA:1940:U:OP1	2.49	0.60
24:BA:1997:G:C2	24:BA:1998:G:C5	2.89	0.60
24:BA:2320:A:C8	24:BA:2320:A:P	2.94	0.60
24:BA:2414:G:H2'	24:BA:2414:G:N3	2.16	0.60
24:BA:2417:C:C2	24:BA:2418:A:C8	2.90	0.60
24:BA:410:G:O6	24:BA:418:G:C6	2.54	0.60
24:BA:534:U:H4'	41:BT:49:HIS:CE1	2.36	0.60
24:BA:974:G:OP2	24:BA:974(A):C:OP2	2.19	0.60
25:BB:57:A:H2'	25:BB:58:A:H5'	1.82	0.60
27:BD:105:ILE:O	27:BD:106:ILE:O	2.20	0.60
27:BD:132:PRO:HB2	27:BD:134:ARG:CD	2.32	0.60
27:BD:175:LEU:HD11	27:BD:177:LEU:HB3	1.83	0.60
28:BE:133:LYS:O	28:BE:137:HIS:CE1	2.54	0.60
28:BE:27:LEU:HD12	28:BE:76:ARG:NH1	2.16	0.60
28:BE:49:LEU:HD21	28:BE:75:VAL:CA	2.31	0.60
29:BF:74:ARG:O	29:BF:75:HIS:CB	2.48	0.60
24:BA:2303:G:O2'	30:BG:132:ASN:CG	2.39	0.60
31:BH:110:SER:O	31:BH:112:PRO:CD	2.46	0.60
31:BH:7:LEU:H	31:BH:8:PRO:HD3	1.64	0.60
32:BK:43:ASN:HD22	32:BK:43:ASN:N	2.00	0.60
35:BN:112:MET:O	35:BN:115:VAL:N	2.34	0.60
35:BN:89:ASN:O	35:BN:90:GLN:HB2	2.00	0.60
35:BN:9:GLU:O	35:BN:82:ASN:HA	2.02	0.60
36:BO:114:ILE:HG21	36:BO:134:ALA:HB2	1.83	0.60
36:BO:122:PRO:HB3	36:BO:138:LEU:N	2.16	0.60
36:BO:81:GLN:CG	36:BO:86:LYS:HE3	2.31	0.60
37:BP:104:PHE:O	37:BP:105:GLU:OE2	2.20	0.60
37:BP:16:ARG:NE	37:BP:73:PRO:CD	2.65	0.60
24:BA:1287:A:C8	38:BQ:104:ARG:NH1	2.69	0.60
38:BQ:28:LEU:O	38:BQ:29:LEU:C	2.37	0.60
38:BQ:25:ALA:HA	38:BQ:48:VAL:HG22	1.82	0.60
40:BS:55:ASN:ND2	40:BS:57:PHE:HZ	1.99	0.60
41:BT:70:ARG:HB2	41:BT:70:ARG:NH1	2.16	0.60
42:BU:12:TYR:O	42:BU:13:ARG:HB2	2.00	0.60
43:BV:13:SER:C	43:BV:16:LYS:NZ	2.55	0.60
43:BV:33:ARG:NH2	43:BV:37:ARG:HB3	2.17	0.60
44:BW:35:THR:N	44:BW:38:GLU:HB2	2.17	0.60
32:BK:95:LYS:HG2	32:BK:99:GLU:OE2	2.00	0.60
24:BA:2115:G:C2'	24:BA:2117:A:H62	2.14	0.60
1:AA:1011:G:C2'	1:AA:1012:U:H5'	2.32	0.60
1:AA:1044:A:H2'	1:AA:1045:C:C5'	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.36	0.60
1:AA:167:G:H2'	1:AA:168:G:H8	1.67	0.60
1:AA:186:C:O2'	1:AA:186(A):C:H5'	2.00	0.60
1:AA:258:G:O6	1:AA:259:G:O6	2.19	0.60
1:AA:362:G:N3	1:AA:364:A:C8	2.69	0.60
1:AA:405:U:H5''	1:AA:406:G:O4'	2.01	0.60
1:AA:572:A:O2'	1:AA:916:G:O2'	2.11	0.60
1:AA:65:U:H4'	1:AA:66:G:O5'	2.01	0.60
1:AA:703:G:O5'	1:AA:703:G:H8	1.84	0.60
1:AA:791:G:OP2	1:AA:791:G:H3'	2.02	0.60
1:AA:790:A:N6	1:AA:791:G:N1	2.49	0.60
1:AA:796:C:C2	1:AA:797:C:C5	2.90	0.60
1:AA:780:A:H2	1:AA:803:G:C6	2.19	0.60
1:AA:90:C:O2'	1:AA:91:C:C5'	2.50	0.60
3:AB:74:C:N4	24:BA:2555:U:N1	2.49	0.60
3:AC:40:C:C2'	3:AC:41:C:C5'	2.74	0.60
4:AE:52:GLU:HG2	4:AE:53:ARG:N	2.16	0.60
6:AG:128:VAL:HG21	6:AG:133:VAL:CB	2.31	0.60
6:AG:176:LEU:HG	6:AG:176:LEU:O	2.01	0.60
6:AG:177:ASP:HB3	6:AG:182:LYS:O	2.02	0.60
6:AG:187:ARG:CZ	6:AG:188:LEU:HG	2.31	0.60
7:AH:88:LYS:CB	7:AH:123:LEU:O	2.50	0.60
1:AA:9:G:H3'	7:AH:126:ARG:HH11	1.66	0.60
7:AH:40:ARG:N	7:AH:68:GLU:OE1	2.35	0.60
9:AJ:71:PRO:CD	9:AJ:100:ALA:HB2	2.31	0.60
10:AK:104:ARG:HB3	10:AK:107:LEU:HG	1.83	0.60
10:AK:95:VAL:HG11	10:AK:133:LEU:HD11	1.84	0.60
10:AK:6:ILE:CD1	10:AK:85:ARG:HD3	2.32	0.60
14:AO:35:GLY:O	14:AO:82:VAL:CG1	2.50	0.60
14:AO:41:ARG:HH12	14:AO:55:VAL:HG11	1.67	0.60
17:AR:40:SER:O	17:AR:43:LEU:HB2	2.02	0.60
18:AS:8:ARG:HD3	18:AS:15:PRO:CA	2.29	0.60
18:AS:20:VAL:HG11	18:AS:32:TYR:CB	2.30	0.60
20:AU:31:LEU:N	20:AU:31:LEU:HD12	2.16	0.60
21:AV:30:LEU:HD21	21:AV:50:ALA:HB2	1.84	0.60
21:AV:45:VAL:CG2	21:AV:67:VAL:HG21	2.27	0.60
22:AW:63:ILE:HD13	22:AW:80:ARG:CB	2.29	0.60
48:B1:16:LEU:O	48:B1:20:VAL:HG12	2.01	0.60
48:B1:41:GLN:O	48:B1:42:ASN:C	2.40	0.60
49:B2:26:LEU:CB	49:B2:35:ARG:HH11	2.14	0.60
49:B2:50:VAL:CG1	49:B2:53:LEU:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:34:ARG:HH22	53:B6:42:LEU:HD23	1.67	0.60
54:B7:5:LYS:HE2	54:B7:7:HIS:HA	1.84	0.60
24:BA:1202:C:N3	24:BA:1203:G:O2'	2.32	0.60
24:BA:1295:C:H2'	24:BA:1296:G:C8	2.37	0.60
24:BA:1603:A:OP1	24:BA:1604:C:OP2	2.19	0.60
24:BA:1634:A:O3'	24:BA:1635:G:C8	2.54	0.60
24:BA:1751:C:O4'	24:BA:2860:A:C2	2.55	0.60
24:BA:1839:G:H1'	24:BA:1927:A:H5'	1.83	0.60
24:BA:1942:C:OP2	24:BA:1943:U:H3'	2.01	0.60
24:BA:1969:A:C5'	24:BA:1970:A:OP1	2.49	0.60
24:BA:2253:G:C5	24:BA:2254:C:C5	2.90	0.60
24:BA:2357:U:O5'	24:BA:2357:U:H6	1.84	0.60
24:BA:2655:G:C2'	24:BA:2655:G:N3	2.64	0.60
24:BA:2656:U:C2'	24:BA:2656:U:O2	2.47	0.60
24:BA:2716:U:O2'	24:BA:2717:G:H5'	2.01	0.60
24:BA:273:G:H2'	24:BA:273(A):G:H8	1.66	0.60
24:BA:1050:A:C2	24:BA:2751:G:H3'	2.36	0.60
24:BA:298:G:O5'	24:BA:298:G:C8	2.48	0.60
24:BA:482:A:N3	24:BA:482:A:C2'	2.64	0.60
24:BA:573:G:O2'	24:BA:574:C:P	2.59	0.60
24:BA:730:C:H2'	24:BA:731:C:C5	2.35	0.60
24:BA:751:A:H5'	43:BV:90:ARG:CZ	2.31	0.60
24:BA:957:A:N6	24:BA:959:A:C4	2.70	0.60
25:BB:31:C:N3	25:BB:32:C:C5	2.70	0.60
27:BD:145:VAL:O	27:BD:154:LYS:O	2.19	0.60
27:BD:186:HIS:O	27:BD:189:CYS:SG	2.60	0.60
27:BD:133:LEU:HD12	27:BD:187:GLY:HA2	1.83	0.60
27:BD:229:VAL:HG13	27:BD:230:ASP:CG	2.21	0.60
27:BD:256:GLY:O	27:BD:257:LEU:HG	2.02	0.60
27:BD:46:GLN:O	27:BD:48:ARG:N	2.34	0.60
27:BD:7:LYS:HE2	27:BD:25:THR:CG2	2.31	0.60
24:BA:1567:A:N6	27:BD:84:TYR:CD1	2.70	0.60
28:BE:133:LYS:CE	28:BE:137:HIS:HB3	2.32	0.60
28:BE:147:PRO:CD	28:BE:148:GLY:N	2.64	0.60
29:BF:125:LEU:HD22	29:BF:128:ALA:HB2	1.82	0.60
29:BF:34:TRP:C	29:BF:38:ARG:HD2	2.22	0.60
30:BG:170:ARG:HD3	30:BG:174:GLU:CB	2.31	0.60
31:BH:149:ARG:O	31:BH:153:LYS:HB3	2.01	0.60
32:BK:31:LEU:HD21	32:BK:36:ALA:HB3	1.83	0.60
33:BL:134:MET:CE	33:BL:136:VAL:HG23	2.29	0.60
33:BL:131:ALA:HB1	33:BL:136:VAL:HB	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:79:ARG:HH12	33:BL:87:GLY:N	2.00	0.60
34:BM:27:ALA:O	34:BM:28:THR:C	2.40	0.60
34:BM:57:ALA:CB	34:BM:124:ALA:HA	2.29	0.60
35:BN:103:ALA:O	35:BN:104:ARG:C	2.39	0.60
36:BO:122:PRO:HD3	36:BO:137:LYS:HB2	1.82	0.60
37:BP:121:ALA:O	37:BP:125:LEU:CG	2.44	0.60
37:BP:16:ARG:CG	37:BP:72:LYS:HB3	2.32	0.60
37:BP:75:THR:CG2	37:BP:77:LYS:HD2	2.29	0.60
38:BQ:57:ARG:CZ	38:BQ:57:ARG:HB3	2.31	0.60
39:BR:71:ARG:N	39:BR:104:GLY:CA	2.64	0.60
24:BA:2378:A:N3	39:BR:20:ARG:NH2	2.50	0.60
40:BS:107:ASP:HB2	40:BS:108:ARG:HD3	1.84	0.60
40:BS:2:ASN:O	40:BS:5:ALA:HB3	2.02	0.60
40:BS:4:GLY:CA	40:BS:8:LYS:HE3	2.32	0.60
44:BW:63:LYS:HA	44:BW:63:LYS:CE	2.32	0.60
46:BY:127:LYS:HD3	46:BY:165:VAL:CG2	2.31	0.60
46:BY:28:MET:HE1	46:BY:88:PHE:HB2	1.82	0.60
46:BY:94:GLU:CA	46:BY:130:PRO:HB3	2.31	0.60
32:BK:91:SER:CA	32:BK:121:LYS:HD2	2.30	0.60
26:BC:212:VAL:HG12	26:BC:212:VAL:O	2.01	0.60
24:BA:2100:G:H1'	24:BA:2190:G:N2	2.17	0.60
52:B5:54:ILE:HD13	52:B5:54:ILE:C	2.21	0.60
1:AA:1028(B):C:O2	1:AA:1028(B):C:H2'	1.99	0.60
1:AA:1041:A:C6	1:AA:1042:G:N7	2.70	0.60
1:AA:1062:U:C2'	1:AA:1063:C:C6	2.82	0.60
1:AA:1127:G:H21	1:AA:1147:C:H42	1.50	0.60
1:AA:1202:G:H1'	16:AQ:29:ARG:CD	2.31	0.60
1:AA:1251:A:O2'	1:AA:1369:C:O2'	2.09	0.60
1:AA:1320:C:C5	21:AV:37:ARG:NH2	2.70	0.60
1:AA:923:A:O4'	1:AA:1398:A:C2	2.54	0.60
1:AA:254:G:C6	1:AA:273:A:N6	2.69	0.60
1:AA:323:U:C5	1:AA:324:G:H1'	2.37	0.60
1:AA:362:G:N3	1:AA:364:A:H8	1.98	0.60
1:AA:375:U:C3'	18:AS:6:LEU:HD21	2.30	0.60
1:AA:390:C:C4	1:AA:391:G:N7	2.70	0.60
1:AA:49:U:O2'	1:AA:50:A:OP1	2.16	0.60
1:AA:570:G:N2	1:AA:873:A:N1	2.50	0.60
1:AA:667:G:H2'	1:AA:668:G:C8	2.37	0.60
1:AA:687:A:O2'	1:AA:688:G:O5'	2.20	0.60
1:AA:867:G:H2'	1:AA:868:C:H6	1.63	0.60
4:AE:78:GLN:NE2	4:AE:96:ARG:HH12	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:149:ALA:HB3	5:AF:170:GLN:HE21	1.67	0.60
5:AF:173:VAL:O	5:AF:175:LEU:N	2.35	0.60
5:AF:30:ARG:CG	5:AF:31:HIS:H	2.09	0.60
5:AF:55:VAL:HG22	5:AF:68:VAL:HG22	1.83	0.60
6:AG:110:PHE:CE1	6:AG:148:VAL:HG23	2.34	0.60
6:AG:59:ARG:C	6:AG:63:LYS:NZ	2.53	0.60
7:AH:103:GLY:C	7:AH:107:ARG:HH12	2.05	0.60
9:AJ:103:TRP:CH2	9:AJ:138:LYS:CA	2.74	0.60
10:AK:1:MET:HG2	10:AK:2:LEU:H	1.66	0.60
10:AK:98:LYS:HG2	10:AK:98:LYS:O	2.01	0.60
10:AK:97:VAL:HG22	10:AK:98:LYS:N	2.14	0.60
11:AL:103:THR:CG2	11:AL:104:ARG:H	2.12	0.60
11:AL:27:THR:HG23	11:AL:30:GLY:O	2.02	0.60
12:AM:63:PHE:HA	16:AQ:59:ALA:HB2	1.83	0.60
12:AM:69:ASN:O	12:AM:70:ARG:HD3	2.01	0.60
14:AO:7:ILE:HB	14:AO:8:ASN:ND2	2.16	0.60
19:AT:59:ILE:CD1	19:AT:60:ILE:N	2.65	0.60
23:AX:13:ILE:CG2	23:AX:14:TRP:N	2.65	0.60
24:BA:75:G:C4'	48:B1:50:ARG:HH11	2.14	0.60
24:BA:187:G:P	50:B3:13:ARG:HH22	2.24	0.60
50:B3:64:GLY:HA2	50:B3:67:TYR:HD1	1.65	0.60
50:B3:6:HIS:HB2	50:B3:56:VAL:HA	1.84	0.60
43:BV:22:ASP:HB2	51:B4:25:LEU:HD21	1.83	0.60
24:BA:687:C:C5'	53:B6:4:THR:HB	2.22	0.60
24:BA:1227:A:C2'	24:BA:1228:G:H5''	2.32	0.60
24:BA:1301:A:O2'	24:BA:1302:A:C8	2.55	0.60
24:BA:1652:A:H62	24:BA:1653:G:H21	1.50	0.60
24:BA:1775:U:O2'	24:BA:1776:G:C5'	2.47	0.60
24:BA:1825:A:C6	24:BA:1826:G:O6	2.54	0.60
24:BA:1829:A:C2	24:BA:1830:C:H1'	2.35	0.60
1:AA:784:C:C5'	24:BA:1837:C:OP1	2.50	0.60
1:AA:702:A:C2	24:BA:1848:A:C5	2.90	0.60
24:BA:1861:G:H2'	24:BA:1862:G:H5'	1.82	0.60
24:BA:1907:G:H2'	24:BA:1908:C:H6	1.65	0.60
24:BA:1992:G:N7	24:BA:1997:G:C2	2.70	0.60
24:BA:243:U:H2'	24:BA:244:A:H5'	1.82	0.60
24:BA:2445:G:H2'	24:BA:2446:G:N7	2.13	0.60
24:BA:2459:A:N3	24:BA:2460:U:O2'	2.28	0.60
24:BA:2715:C:H2'	24:BA:2716:U:H6	1.67	0.60
24:BA:2866:U:H5''	24:BA:2867:G:OP1	2.01	0.60
24:BA:294:A:H2'	24:BA:295:G:H5'	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:32:C:OP1	24:BA:1238:G:H5'	2.02	0.60
24:BA:361:G:H2'	24:BA:362:U:C6	2.36	0.60
24:BA:506:G:H2'	24:BA:507:A:OP2	2.00	0.60
24:BA:601:C:H2'	24:BA:601:C:O2	2.01	0.60
24:BA:686:G:C4'	24:BA:687:C:OP2	2.50	0.60
24:BA:731:C:H5'	24:BA:731:C:H6	1.66	0.60
24:BA:734:A:H2'	24:BA:735:A:O5'	2.01	0.60
24:BA:749:C:H3'	24:BA:749:C:C6	2.36	0.60
24:BA:771:G:C2	24:BA:772:C:C4	2.90	0.60
25:BB:37:C:N4	25:BB:44:G:N1	2.50	0.60
27:BD:118:VAL:H	27:BD:129:ASN:CG	2.05	0.60
27:BD:145:VAL:HB	27:BD:155:LEU:HD22	1.83	0.60
27:BD:228:PRO:HD3	27:BD:235:GLY:HA3	1.83	0.60
27:BD:260:ARG:CB	27:BD:260:ARG:HH11	2.14	0.60
24:BA:1675:C:C5	28:BE:129:HIS:CD2	2.89	0.60
28:BE:14:ILE:HG22	28:BE:19:ARG:HA	1.82	0.60
28:BE:98:PRO:HB3	28:BE:175:VAL:HG13	1.84	0.60
30:BG:149:VAL:HG13	30:BG:150:ASP:H	1.66	0.60
30:BG:55:LYS:HE2	30:BG:151:ALA:CB	2.29	0.60
30:BG:36:LYS:NZ	30:BG:38:VAL:HG13	2.17	0.60
31:BH:107:VAL:HG13	31:BH:152:ARG:HD2	1.83	0.60
31:BH:125:VAL:O	31:BH:127:GLU:N	2.35	0.60
31:BH:171:LEU:HA	31:BH:172:LYS:NZ	2.17	0.60
31:BH:175:LYS:HG2	31:BH:176:ALA:N	2.15	0.60
31:BH:45:VAL:CG2	31:BH:50:VAL:HG13	2.31	0.60
34:BM:127:ASP:C	34:BM:129:PRO:CD	2.70	0.60
35:BN:24:VAL:HG11	35:BN:32:TYR:H	1.66	0.60
37:BP:67:ARG:NE	37:BP:105:GLU:OE1	2.34	0.60
37:BP:83:MET:O	37:BP:83:MET:CE	2.50	0.60
39:BR:13:ARG:CD	39:BR:90:GLY:O	2.46	0.60
41:BT:3:ARG:O	41:BT:4:ALA:HB2	2.02	0.60
42:BU:41:GLY:H	42:BU:51:VAL:HA	1.67	0.60
43:BV:33:ARG:O	43:BV:37:ARG:HG2	2.02	0.60
43:BV:59:VAL:CG2	43:BV:66:GLU:HB2	2.30	0.60
24:BA:1340:U:C5	44:BW:57:LEU:HG	2.35	0.60
32:BK:73:GLU:HG3	32:BK:138:ILE:HD11	1.84	0.60
26:BC:61:THR:HG21	26:BC:160:ARG:NH2	2.16	0.60
24:BA:1418:G:OP2	24:BA:1418:G:C8	2.54	0.60
1:AA:1017:G:O2'	1:AA:1018:C:H5'	2.01	0.60
24:BA:1870:C:H2'	24:BA:1870:C:O2	2.01	0.60
4:AE:156:LYS:O	4:AE:156:LYS:HG2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1484:C:C2'	1:AA:1485:U:H5'	2.31	0.60
1:AA:1507:A:C2'	1:AA:1508:G:H5'	2.32	0.60
1:AA:306:G:H8	1:AA:306:G:O5'	1.84	0.60
1:AA:394:G:H2'	1:AA:395:C:C6	2.36	0.60
1:AA:425:G:O2'	1:AA:426:G:H5'	2.00	0.60
1:AA:44:G:C6	1:AA:45:U:C2	2.90	0.60
1:AA:677:U:H2'	1:AA:678:U:H5	1.59	0.60
1:AA:753:A:H5'	1:AA:754:C:C5	2.37	0.60
1:AA:796:C:H2'	1:AA:797:C:H6	1.66	0.60
1:AA:887:G:H2'	1:AA:888:G:H8	1.67	0.60
1:AA:896:C:C2	1:AA:897:C:C5	2.90	0.60
1:AA:95:G:C2'	1:AA:96:G:H5'	2.32	0.60
2:A1:46:U:N3	3:AB:34:G:N1	2.49	0.60
4:AE:87:ARG:C	4:AE:89:GLY:H	2.05	0.60
5:AF:39:ILE:HG21	5:AF:57:ILE:HD13	1.84	0.60
7:AH:74:GLY:O	7:AH:75:THR:HB	2.01	0.60
8:AI:52:ILE:HG21	8:AI:87:ARG:NH2	2.16	0.60
8:AI:95:GLU:H	8:AI:96:PRO:HD2	1.64	0.60
12:AM:12:ASP:O	12:AM:16:LEU:HD23	2.01	0.60
13:AN:15:ALA:O	13:AN:78:GLN:NE2	2.35	0.60
14:AO:12:ARG:CZ	14:AO:12:ARG:HB3	2.30	0.60
1:AA:529:G:C6	14:AO:49:ASN:CG	2.74	0.60
16:AQ:40:CYS:O	16:AQ:44:LEU:HB2	2.02	0.60
1:AA:1047:G:C5'	16:AQ:4:LYS:HD3	2.32	0.60
12:AM:62:HIS:O	16:AQ:59:ALA:HB3	2.01	0.60
18:AS:56:ALA:O	18:AS:60:LEU:CG	2.50	0.60
19:AT:38:ARG:HG3	19:AT:39:SER:N	2.16	0.60
19:AT:95:TYR:O	19:AT:97:SER:N	2.35	0.60
21:AV:36:ARG:HH21	21:AV:51:VAL:HG12	1.65	0.60
48:B1:66:ASN:CG	48:B1:67:ALA:N	2.55	0.60
50:B3:18:CYS:SG	50:B3:33:VAL:HG21	2.42	0.60
24:BA:387:U:H3'	50:B3:29:PRO:HB3	1.84	0.60
50:B3:33:VAL:CG1	50:B3:35:VAL:HG23	2.31	0.60
52:B5:17:LYS:NZ	52:B5:50:ARG:CB	2.64	0.60
54:B7:25:MET:O	54:B7:27:THR:CG2	2.45	0.60
24:BA:1179:C:C2	24:BA:1180:C:C5	2.90	0.60
24:BA:1243:G:C6	24:BA:1244:G:C5	2.89	0.60
24:BA:1363:C:N3	24:BA:1369:G:C6	2.70	0.60
24:BA:1475:G:N7	24:BA:1517:G:N2	2.48	0.60
24:BA:1604:C:O2	24:BA:1605:C:C5	2.55	0.60
24:BA:1613:G:P	53:B6:5:TRP:HD1	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1324:G:O2'	24:BA:1616:A:C6	2.54	0.60
24:BA:1617:C:C2'	24:BA:1617:C:O2	2.48	0.60
24:BA:1792:G:O2'	24:BA:1830:C:OP1	2.18	0.60
24:BA:1830:C:C2	24:BA:1831:G:C8	2.90	0.60
24:BA:2043:C:O2'	24:BA:2044:C:H5'	2.02	0.60
24:BA:2043:C:O2'	24:BA:2044:C:O5'	2.20	0.60
24:BA:2251:G:N1	24:BA:2252:G:C2	2.70	0.60
24:BA:2321:G:N3	24:BA:2321:G:H2'	2.16	0.60
24:BA:2336:A:O2'	24:BA:2337:G:OP1	2.18	0.60
24:BA:2393:A:H2'	24:BA:2394:C:H6	1.66	0.60
24:BA:2408:U:O2	24:BA:2409:G:C8	2.54	0.60
24:BA:2415:G:N2	24:BA:2416:C:C2	2.69	0.60
24:BA:2051:A:C5'	24:BA:2578:G:H5''	2.28	0.60
24:BA:2653:U:H2'	24:BA:2654:A:N7	2.16	0.60
24:BA:2533:A:C5'	24:BA:2665:A:H5'	2.31	0.60
24:BA:270(U):C:H2'	24:BA:270(V):G:H1'	1.82	0.60
24:BA:374:A:C2	24:BA:375:C:H1'	2.36	0.60
24:BA:501:A:C5	24:BA:502:A:N1	2.70	0.60
24:BA:602:G:N2	24:BA:655:A:H3'	2.15	0.60
24:BA:653:A:C5'	24:BA:654:A:H4'	2.32	0.60
24:BA:756:C:C2'	24:BA:757:U:H5'	2.30	0.60
24:BA:886:C:H5''	24:BA:887:A:OP1	2.01	0.60
25:BB:116:G:N3	25:BB:117:G:H1'	2.17	0.60
27:BD:96:HIS:CD2	27:BD:102:LYS:HE2	2.36	0.60
27:BD:132:PRO:HG2	27:BD:135:PHE:CD1	2.37	0.60
27:BD:169:GLU:CB	27:BD:184:LYS:NZ	2.62	0.60
24:BA:2597:G:H5'	27:BD:242:ARG:NE	2.16	0.60
27:BD:242:ARG:O	27:BD:244:ARG:N	2.34	0.60
27:BD:7:LYS:NZ	27:BD:91:ARG:NE	2.50	0.60
24:BA:2052:G:C1'	28:BE:150:VAL:HG23	2.32	0.60
29:BF:39:TRP:HE3	29:BF:99:TYR:HB3	1.66	0.60
30:BG:119:GLY:HA3	30:BG:180:PHE:CE1	2.37	0.60
30:BG:139:LEU:O	30:BG:139:LEU:HD22	2.02	0.60
30:BG:118:ARG:O	30:BG:180:PHE:CE1	2.54	0.60
30:BG:77:ILE:HD12	30:BG:83:ARG:NH1	2.16	0.60
30:BG:77:ILE:O	30:BG:83:ARG:CZ	2.49	0.60
35:BN:11:ALA:HB2	35:BN:17:ARG:CD	2.31	0.60
35:BN:70:LYS:NZ	35:BN:103:ALA:HB3	2.16	0.60
36:BO:122:PRO:HD3	36:BO:137:LYS:CB	2.32	0.60
36:BO:130:PHE:N	36:BO:130:PHE:HD2	2.00	0.60
37:BP:58:PHE:C	37:BP:60:ARG:N	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:113:ALA:O	41:BT:116:ALA:HB3	2.01	0.60
42:BU:40:LEU:CD2	42:BU:51:VAL:O	2.44	0.60
47:BZ:72:ARG:O	47:BZ:73:GLY:C	2.39	0.60
47:BZ:49:LYS:N	47:BZ:80:HIS:CE1	2.67	0.60
32:BK:91:SER:HB2	32:BK:119:PRO:HB2	1.83	0.60
24:BA:2135:A:C5'	24:BA:2136:C:H5	2.15	0.60
26:BC:28:LEU:O	26:BC:32:LEU:HG	2.02	0.60
24:BA:1588:C:H2'	24:BA:1589:C:H6	1.65	0.60
2:A1:37:U:H2'	2:A1:38:U:C2	2.37	0.60
1:AA:1224:G:H2'	1:AA:1225:A:OP1	2.01	0.60
1:AA:1431:C:H5''	40:BS:110:ILE:HD13	1.84	0.60
1:AA:1466:C:H3'	1:AA:1467:G:C8	2.37	0.60
1:AA:1468:A:C8	1:AA:1469:G:C8	2.90	0.60
1:AA:815:A:C2	1:AA:1529:G:C2	2.89	0.60
1:AA:224:C:H2'	1:AA:225:C:H6	1.66	0.60
1:AA:306:G:N3	1:AA:307:C:C6	2.69	0.60
1:AA:44:G:H2'	1:AA:45:U:C5'	2.32	0.60
1:AA:657:G:H2'	1:AA:658:G:C5'	2.30	0.60
1:AA:766:A:C2	1:AA:767:A:H1'	2.37	0.60
1:AA:818:G:H3'	1:AA:819:A:H5''	1.84	0.60
1:AA:818:G:N3	1:AA:820:U:C5	2.69	0.60
1:AA:951:G:N2	1:AA:952:U:C2	2.70	0.60
1:AA:953:G:H1'	15:AP:125:ARG:C	2.21	0.60
3:AD:37:A:H61	9:AJ:79:ARG:NH2	1.99	0.60
3:AD:3:C:H2'	3:AD:4:C:C6	2.36	0.60
3:AD:74:C:OP2	50:B3:22:ILE:HG12	2.02	0.60
4:AE:102:LEU:HD22	4:AE:176:GLU:OE1	2.02	0.60
4:AE:112:VAL:HG13	4:AE:149:LEU:HD21	1.84	0.60
4:AE:124:SER:OG	4:AE:125:PRO:HD2	2.02	0.60
4:AE:166:ASP:OD1	4:AE:205:ASP:OD2	2.20	0.60
4:AE:97:TRP:HB3	4:AE:172:ILE:HD12	1.83	0.60
5:AF:142:MET:CB	5:AF:149:ALA:HB2	2.32	0.60
5:AF:157:ILE:O	5:AF:157:ILE:HG22	2.00	0.60
5:AF:12:LEU:O	5:AF:17:ASP:OD2	2.19	0.60
5:AF:91:LEU:CD2	5:AF:92:ALA:N	2.64	0.60
6:AG:139:ARG:HG2	6:AG:140:VAL:H	1.66	0.60
1:AA:923:A:C5'	7:AH:21:ALA:HB2	2.32	0.60
7:AH:80:ILE:HD11	7:AH:91:LEU:HB3	1.83	0.60
10:AK:38:ILE:CA	10:AK:41:ARG:HB2	2.32	0.60
13:AN:54:ARG:O	13:AN:56:GLY:N	2.35	0.60
15:AP:97:PRO:HG2	15:AP:103:THR:CG2	2.09	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:376:G:OP1	18:AS:6:LEU:HD13	2.00	0.60
21:AV:37:ARG:O	21:AV:70:LYS:HE2	2.02	0.60
1:AA:191:G:C1'	22:AW:105:SER:HA	2.25	0.60
49:B2:16:PRO:HG2	49:B2:19:GLN:CB	2.31	0.60
50:B3:52:THR:CG2	50:B3:53:GLU:N	2.53	0.60
51:B4:35:GLU:CD	51:B4:51:TYR:CE2	2.75	0.60
53:B6:17:GLY:O	53:B6:21:ARG:NH2	2.34	0.60
53:B6:43:THR:C	53:B6:46:VAL:H	2.06	0.60
24:BA:1048:A:P	24:BA:1110:G:H22	2.25	0.60
24:BA:1155:A:OP2	24:BA:1155:A:H3'	2.02	0.60
24:BA:1241:A:O2'	24:BA:1242:A:P	2.59	0.60
24:BA:1248:G:O2'	24:BA:1249:U:OP1	2.14	0.60
24:BA:1341:U:O4	24:BA:1395:A:C2	2.54	0.60
24:BA:1427:A:C8	24:BA:1427:A:OP1	2.55	0.60
24:BA:1449:A:C2	24:BA:1449(A):G:C1'	2.85	0.60
24:BA:1747:G:O2'	24:BA:1748:G:H5'	2.02	0.60
24:BA:1783:A:H8	24:BA:1783:A:OP2	1.84	0.60
24:BA:1912:A:N1	24:BA:1919:A:H1'	2.17	0.60
24:BA:1769:G:C6	24:BA:1984:G:C6	2.89	0.60
24:BA:1996:C:C5'	24:BA:1996:C:C6	2.76	0.60
24:BA:1266:G:HO2'	24:BA:2012:G:H1	1.29	0.60
24:BA:2020:A:N6	24:BA:2022:U:C2	2.70	0.60
24:BA:574:C:C1'	24:BA:2055:C:H5	2.14	0.60
24:BA:2403:C:O2'	24:BA:2404:C:H5'	2.02	0.60
24:BA:2059:A:H2	24:BA:2503:A:H62	1.42	0.60
24:BA:251:A:P	24:BA:251:A:H3'	2.41	0.60
24:BA:2537:U:N3	24:BA:2538:C:N4	2.50	0.60
24:BA:2630:G:C5	24:BA:2894:G:O6	2.54	0.60
24:BA:2688:U:C2'	24:BA:2688:U:O2	2.46	0.60
24:BA:2743:C:C2	24:BA:2762:G:C2	2.90	0.60
24:BA:2797:U:O3'	24:BA:2798:C:H4'	2.02	0.60
24:BA:283:A:C2'	24:BA:284:U:H5'	2.32	0.60
24:BA:290:G:H2'	24:BA:291:C:O5'	2.01	0.60
24:BA:293:U:H2'	24:BA:294:A:H8	1.65	0.60
24:BA:371:A:H62	24:BA:424:G:H4'	1.66	0.60
24:BA:403:U:H5''	24:BA:404:C:OP1	2.01	0.60
24:BA:219:G:O6	24:BA:428:A:OP1	2.19	0.60
24:BA:4:C:H2'	24:BA:5:A:H8	1.66	0.60
24:BA:565:C:C2'	24:BA:565:C:O2	2.50	0.60
24:BA:612:G:H4'	24:BA:616:A:N1	2.16	0.60
24:BA:626:U:H2'	24:BA:626:U:O2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:816:C:O2'	24:BA:817:C:H5'	2.02	0.60
24:BA:822:U:OP2	24:BA:945:A:H5'	2.01	0.60
24:BA:569:U:P	24:BA:945:A:N6	2.75	0.60
24:BA:990:A:N6	24:BA:1186:G:H1'	2.16	0.60
25:BB:65:C:H2'	25:BB:66:A:H5'	1.84	0.60
25:BB:71:C:C3'	25:BB:72:G:H5'	2.31	0.60
24:BA:2597:G:O4'	27:BD:242:ARG:CZ	2.49	0.60
28:BE:197:ILE:N	28:BE:197:ILE:CD1	2.60	0.60
28:BE:50:GLY:C	28:BE:76:ARG:NE	2.46	0.60
24:BA:590:A:H5'	29:BF:93:LYS:NZ	2.17	0.60
29:BF:95:ARG:CZ	29:BF:96:ASP:O	2.49	0.60
30:BG:57:ALA:O	30:BG:58:GLN:C	2.40	0.60
30:BG:44:GLY:N	30:BG:88:ILE:HG21	2.17	0.60
31:BH:17:VAL:CG2	31:BH:45:VAL:HG21	2.32	0.60
33:BL:91:PRO:HG3	33:BL:133:SER:O	2.02	0.60
34:BM:24:GLY:O	34:BM:27:ALA:HB3	2.02	0.60
35:BN:122:LEU:OXT	40:BS:74:ARG:NH2	2.35	0.60
35:BN:23:ARG:H	35:BN:23:ARG:HD3	1.67	0.60
35:BN:3:GLN:HE22	35:BN:33:ALA:HB3	0.68	0.60
35:BN:18:LYS:CB	35:BN:45:GLU:HG3	2.24	0.60
37:BP:102:VAL:O	37:BP:102:VAL:CG1	2.50	0.60
37:BP:6:ARG:HE	37:BP:8:LYS:CG	2.14	0.60
38:BQ:97:VAL:HG13	38:BQ:114:VAL:CG2	2.30	0.60
39:BR:49:VAL:HG21	39:BR:80:LEU:HG	1.82	0.60
40:BS:24:PRO:HG2	40:BS:25:GLY:N	2.12	0.60
40:BS:24:PRO:CG	40:BS:25:GLY:H	2.09	0.60
40:BS:30:VAL:HG22	40:BS:32:TYR:HE2	1.58	0.60
40:BS:92:GLY:HA2	40:BS:93:ARG:CZ	2.31	0.60
41:BT:98:LEU:CB	41:BT:105:VAL:HG11	2.31	0.60
42:BU:15:GLU:HB3	42:BU:16:PRO:CD	2.32	0.60
42:BU:89:GLN:HG2	42:BU:91:TYR:CD1	2.37	0.60
44:BW:51:VAL:HG13	44:BW:81:VAL:HG21	1.83	0.60
32:BK:98:ALA:O	32:BK:102:SER:HB2	2.02	0.60
33:BL:14:ALA:CB	33:BL:48:MET:O	2.49	0.60
1:AA:1049:U:C4	16:AQ:3:ARG:HB2	2.37	0.60
1:AA:1069:C:N4	1:AA:1094:G:O6	2.35	0.60
1:AA:1116:C:H2'	1:AA:1117:G:C8	2.37	0.60
1:AA:123:C:OP1	1:AA:311:C:O2'	2.20	0.60
1:AA:12:U:C2	1:AA:13:U:O4	2.55	0.60
1:AA:1300:G:C2	1:AA:1335:C:C2	2.90	0.60
1:AA:1305:G:H5''	23:AX:4:GLY:C	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:28:G:O2'	1:AA:296:U:OP1	2.15	0.60
1:AA:438:G:N2	1:AA:495:A:C8	2.68	0.60
1:AA:483:C:N4	1:AA:484:G:C2	2.70	0.60
1:AA:557:G:H2'	1:AA:558:G:C1'	2.32	0.60
1:AA:55:A:C2	1:AA:56:U:H1'	2.37	0.60
1:AA:620:C:N3	6:AG:135:LEU:HD22	2.17	0.60
1:AA:632:A:C4	1:AA:633:G:C8	2.89	0.60
1:AA:775:G:H2'	1:AA:776:G:N7	2.15	0.60
1:AA:781:A:HO2'	1:AA:782:A:P	2.25	0.60
1:AA:892:A:O2'	1:AA:893:C:H5'	2.02	0.60
1:AA:955:U:C2	1:AA:956:U:H5	2.20	0.60
1:AA:992:U:H5'	1:AA:993:G:C8	2.37	0.60
4:AE:97:TRP:CE3	4:AE:172:ILE:HB	2.36	0.60
5:AF:91:LEU:CD1	5:AF:99:VAL:H	2.14	0.60
7:AH:70:PRO:HG2	7:AH:143:ARG:HB3	1.84	0.60
7:AH:78:HIS:ND1	10:AK:104:ARG:HD3	2.17	0.60
8:AI:77:ARG:O	8:AI:81:ILE:HG13	2.02	0.60
9:AJ:107:ALA:HB3	9:AJ:123:GLU:OE1	2.02	0.60
10:AK:70:GLN:CB	10:AK:73:ASP:O	2.50	0.60
10:AK:84:ARG:CB	10:AK:84:ARG:HH11	1.99	0.60
13:AN:23:ALA:HB1	13:AN:88:GLY:HA3	1.82	0.60
13:AN:87:THR:HG22	13:AN:91:ARG:NH2	2.16	0.60
18:AS:28:ARG:NH1	18:AS:29:ASP:OD2	2.35	0.60
22:AW:49:ALA:CB	22:AW:99:LEU:HG	2.32	0.60
44:BW:7:VAL:CG2	48:B1:31:ARG:NH2	2.65	0.60
50:B3:26:SER:O	50:B3:27:THR:HG23	2.02	0.60
51:B4:9:LYS:O	51:B4:10:LYS:HG2	2.02	0.60
55:B8:1:MET:H3	55:B8:33:LYS:HB2	1.66	0.60
55:B8:9:ARG:HE	55:B8:16:VAL:HB	1.66	0.60
24:BA:1246:A:N6	24:BA:1247:A:C6	2.70	0.60
24:BA:1291:C:O2'	24:BA:1292:U:H5'	2.02	0.60
24:BA:1366:A:H5'	50:B3:1:MET:H1	1.67	0.60
24:BA:1471:A:C8	24:BA:1521:G:N2	2.70	0.60
24:BA:1525:G:N2	24:BA:1526:G:H1'	2.17	0.60
24:BA:1525:G:O2'	24:BA:1526:G:H5'	2.02	0.60
24:BA:1655:A:C2	24:BA:1656:C:H1'	2.37	0.60
24:BA:1830:C:N3	24:BA:1831:G:N7	2.50	0.60
24:BA:1944:U:H2'	24:BA:1945:G:OP1	2.02	0.60
24:BA:198:C:O2'	24:BA:199:A:C8	2.44	0.60
24:BA:2194:G:H2'	24:BA:2195:C:C5	2.36	0.60
24:BA:2230:G:H2'	24:BA:2231:C:H6	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:223:A:H4'	24:BA:223:A:OP2	2.02	0.60
24:BA:2403:C:N4	24:BA:2415:G:C6	2.69	0.60
24:BA:2446:G:O2'	24:BA:2448:A:C5'	2.50	0.60
24:BA:2637:U:OP2	24:BA:2637:U:O4'	2.20	0.60
24:BA:2691:C:O2'	24:BA:2692:C:H5'	2.02	0.60
24:BA:2714:G:O6	24:BA:2715:C:N4	2.35	0.60
24:BA:2821:A:H2'	24:BA:2822:G:O4'	2.01	0.60
24:BA:2824:C:N4	24:BA:2825:C:O2	2.35	0.60
24:BA:2865:U:O4	24:BA:2866:U:H5	1.85	0.60
24:BA:2876:G:H2'	24:BA:2877:G:C8	2.37	0.60
24:BA:316:C:H6	24:BA:316:C:OP2	1.84	0.60
24:BA:404:C:H5'	24:BA:406:G:O4'	2.01	0.60
24:BA:414:C:H1'	24:BA:1864:U:C1'	2.32	0.60
24:BA:452:G:N7	24:BA:453:C:C5	2.70	0.60
24:BA:511:U:OP2	24:BA:512:G:N7	2.35	0.60
24:BA:513:A:C2	24:BA:514:A:C8	2.90	0.60
24:BA:625:G:O6	36:BO:100:LEU:HB3	2.02	0.60
24:BA:729:G:N7	24:BA:730:C:C6	2.70	0.60
24:BA:76:C:H4'	48:B1:54:ARG:HG2	1.83	0.60
24:BA:831:G:N1	24:BA:832:G:C4	2.70	0.60
27:BD:247:ALA:O	27:BD:248:SER:C	2.40	0.60
27:BD:84:TYR:CB	27:BD:91:ARG:HG3	2.32	0.60
28:BE:186:GLY:C	28:BE:188:VAL:H	2.04	0.60
28:BE:4:ILE:O	28:BE:27:LEU:HB2	2.02	0.60
30:BG:125:PHE:CZ	30:BG:130:ASN:HB2	2.37	0.60
24:BA:2311:A:H2	30:BG:45:GLU:HG2	1.66	0.60
30:BG:47:LYS:HB3	30:BG:72:ARG:O	2.02	0.60
30:BG:49:ASP:C	30:BG:53:LEU:HD22	2.22	0.60
32:BK:25:TYR:HD2	32:BK:25:TYR:H	1.47	0.60
37:BP:38:GLU:OE2	37:BP:38:GLU:N	2.35	0.60
24:BA:1654:A:OP1	38:BQ:3:HIS:CE1	2.55	0.60
38:BQ:63:ARG:O	38:BQ:64:ARG:C	2.39	0.60
40:BS:109:GLU:CB	40:BS:114:LEU:HD21	2.32	0.60
41:BT:111:GLU:O	41:BT:114:LYS:HG2	2.01	0.60
41:BT:53:ARG:NH1	41:BT:53:ARG:CB	2.62	0.60
42:BU:4:ILE:CG1	42:BU:13:ARG:HG2	2.32	0.60
24:BA:1334:G:C5'	44:BW:65:ARG:HH12	2.14	0.60
45:BX:45:VAL:CA	45:BX:57:GLN:HG2	2.32	0.60
46:BY:161:VAL:CG1	46:BY:162:GLU:H	2.15	0.60
46:BY:151:HIS:CG	46:BY:168:GLU:HG2	2.37	0.60
46:BY:18:LEU:HD22	46:BY:23:LYS:HD3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:82:ARG:HG3	46:BY:83:PRO:N	2.17	0.60
24:BA:2173:A:H2'	24:BA:2174:C:O4'	2.02	0.60
24:BA:1114:G:C2	24:BA:1115:G:C1'	2.84	0.60
1:AA:121:C:H5'	1:AA:122:G:OP1	2.02	0.59
1:AA:1349:A:OP1	11:AL:120:ARG:HB2	2.02	0.59
1:AA:1419:G:HO2'	1:AA:1420:C:H6	1.47	0.59
1:AA:302:G:O2'	1:AA:556:C:H5''	2.02	0.59
1:AA:678:U:C2	1:AA:679:C:C5	2.90	0.59
1:AA:678:U:H2'	1:AA:679:C:C5	2.35	0.59
1:AA:719:C:H2'	1:AA:720:C:O4'	2.02	0.59
3:AB:20:U:H3'	3:AB:21:A:C5'	2.32	0.59
4:AE:131:PRO:O	4:AE:134:GLU:N	2.35	0.59
4:AE:179:LYS:C	4:AE:181:PHE:N	2.53	0.59
4:AE:75:LYS:O	4:AE:77:ALA:N	2.34	0.59
5:AF:124:ILE:HD11	5:AF:130:VAL:HG13	1.83	0.59
6:AG:114:ARG:HG3	6:AG:114:ARG:HH11	1.66	0.59
6:AG:172:PRO:HG3	6:AG:193:ASP:HB3	1.83	0.59
6:AG:80:GLU:O	6:AG:83:SER:N	2.34	0.59
9:AJ:72:ARG:HG2	9:AJ:142:GLU:OE1	2.02	0.59
10:AK:104:ARG:CB	10:AK:107:LEU:HG	2.32	0.59
10:AK:10:LEU:CD1	10:AK:85:ARG:HB2	2.32	0.59
13:AN:87:THR:CG2	13:AN:91:ARG:HH22	2.14	0.59
14:AO:100:ILE:O	14:AO:101:VAL:HG13	2.01	0.59
1:AA:1308:U:P	15:AP:99:ARG:HG3	2.42	0.59
17:AR:39:LEU:C	17:AR:39:LEU:HD23	2.22	0.59
17:AR:36:ILE:HG13	17:AR:59:MET:CE	2.30	0.59
1:AA:564:C:C5	19:AT:31:LEU:HD11	2.37	0.59
1:AA:130:A:OP2	19:AT:63:ARG:NH2	2.35	0.59
21:AV:30:LEU:HD11	21:AV:50:ALA:HB2	1.84	0.59
15:AP:87:TYR:HB3	21:AV:73:GLU:HB2	1.84	0.59
22:AW:76:ALA:O	22:AW:79:ARG:HG2	2.02	0.59
52:B5:19:ARG:CB	52:B5:43:CYS:SG	2.90	0.59
24:BA:980:A:N6	24:BA:1135:C:H5''	2.17	0.59
24:BA:1154:G:O2'	24:BA:1155:A:H5'	2.02	0.59
24:BA:819:A:H62	24:BA:1188:U:H3	1.49	0.59
24:BA:1223:C:C6	24:BA:1227:A:N1	2.70	0.59
24:BA:1258:C:O2'	24:BA:1259:G:H5'	2.01	0.59
24:BA:1264:G:N7	24:BA:1265:A:N9	2.50	0.59
24:BA:1270:C:O5'	24:BA:1270:C:H6	1.84	0.59
24:BA:1295:C:H2'	24:BA:1296:G:H8	1.67	0.59
24:BA:143:C:H2'	24:BA:144:C:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1464:C:C5'	24:BA:1528:A:O2'	2.50	0.59
24:BA:1618:A:OP1	24:BA:1618:A:C8	2.54	0.59
24:BA:1630:G:C5	24:BA:1630(A):C:C5	2.90	0.59
24:BA:1631:A:N1	24:BA:1632:A:C2	2.70	0.59
24:BA:1703:G:N2	24:BA:1704:G:N3	2.50	0.59
24:BA:1806:C:N3	24:BA:1807:G:C8	2.70	0.59
24:BA:1813:G:O2'	27:BD:46:GLN:CG	2.49	0.59
24:BA:1956:U:C2'	24:BA:1957:C:H6	2.09	0.59
24:BA:1992:G:C4'	24:BA:1993:U:C4	2.85	0.59
24:BA:2022:U:O2'	24:BA:2034:U:C2	2.51	0.59
24:BA:2091:U:O4	24:BA:2092:U:C4	2.55	0.59
24:BA:2287:A:O2'	24:BA:2288:A:O5'	2.16	0.59
24:BA:2373:G:OP2	24:BA:2373:G:H8	1.84	0.59
24:BA:2436:G:C6	24:BA:2437:U:N3	2.70	0.59
24:BA:2455:G:C6	24:BA:2456:C:N4	2.70	0.59
24:BA:2543:G:C6	24:BA:2544:G:C6	2.90	0.59
24:BA:2696:U:H2'	24:BA:2697:G:O5'	2.02	0.59
24:BA:383:U:C2	24:BA:385:C:N4	2.70	0.59
24:BA:424:G:H21	24:BA:425:G:H1'	1.67	0.59
24:BA:444:C:O3'	41:BT:2:PRO:HG2	2.02	0.59
24:BA:586:A:OP1	29:BF:89:VAL:CG2	2.49	0.59
24:BA:612:G:H21	24:BA:617:G:H1	1.50	0.59
24:BA:637:A:N3	24:BA:651:G:H4'	2.17	0.59
24:BA:704:G:H22	24:BA:726:G:C2'	2.14	0.59
24:BA:709:U:H2'	24:BA:710:G:H8	1.65	0.59
24:BA:70:G:OP1	24:BA:112:U:O4	2.20	0.59
24:BA:772:C:H4'	27:BD:48:ARG:HD3	1.83	0.59
24:BA:822:U:C2	24:BA:823:G:C8	2.89	0.59
24:BA:909:A:H2'	24:BA:912:C:C5	2.37	0.59
24:BA:933:A:C2	24:BA:934:G:C8	2.90	0.59
25:BB:73:A:C8	25:BB:104:A:C6	2.90	0.59
25:BB:74:U:O2	46:BY:34:ASN:ND2	2.35	0.59
25:BB:9:G:H4'	39:BR:43:GLU:CD	2.21	0.59
27:BD:174:ILE:HD12	27:BD:184:LYS:HE3	1.84	0.59
27:BD:208:LYS:HZ1	27:BD:211:ARG:HH21	1.50	0.59
27:BD:61:LEU:C	27:BD:62:TYR:CG	2.75	0.59
28:BE:115:GLY:C	28:BE:117:MET:N	2.54	0.59
28:BE:58:ARG:HH11	28:BE:75:VAL:HG13	1.66	0.59
28:BE:81:ILE:CG2	28:BE:82:ARG:N	2.64	0.59
31:BH:153:LYS:H	31:BH:154:PRO:CD	2.15	0.59
36:BO:113:LYS:CA	36:BO:129:ALA:CB	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:12:GLN:NE2	37:BP:13:GLN:CG	2.62	0.59
40:BS:95:ARG:HB3	40:BS:96:ARG:HD2	1.84	0.59
41:BT:14:HIS:CD2	41:BT:36:ARG:HH12	2.20	0.59
41:BT:58:ARG:HH11	41:BT:58:ARG:HG3	1.65	0.59
41:BT:83:LEU:C	41:BT:86:ALA:HB3	2.22	0.59
42:BU:68:LYS:HZ3	42:BU:95:LEU:HD13	1.66	0.59
43:BV:14:PRO:N	43:BV:78:GLU:OE1	2.35	0.59
44:BW:21:PHE:HE2	44:BW:27:THR:N	1.96	0.59
24:BA:1313:U:P	44:BW:63:LYS:HD2	2.41	0.59
45:BX:12:THR:CG2	45:BX:13:VAL:H	2.05	0.59
45:BX:21:LYS:HB2	45:BX:23:ARG:NH1	2.17	0.59
46:BY:98:MET:O	46:BY:125:LEU:O	2.19	0.59
1:AA:1025:U:H2'	1:AA:1026:G:N7	2.17	0.59
1:AA:1209:C:C2'	1:AA:1210:C:H5'	2.32	0.59
1:AA:129(A):G:N2	1:AA:191(A):G:N7	2.50	0.59
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.37	0.59
1:AA:1451:A:H5''	1:AA:1452:C:H5	1.67	0.59
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.02	0.59
1:AA:190:G:O2'	1:AA:191(A):G:P	2.60	0.59
1:AA:285:G:O2'	1:AA:286:G:H5'	2.03	0.59
1:AA:296:U:O2	1:AA:302:G:C2	2.55	0.59
1:AA:425:G:C2'	1:AA:426:G:H5'	2.32	0.59
1:AA:961:U:O2'	1:AA:962:C:C5'	2.48	0.59
4:AE:115:LEU:HD12	4:AE:115:LEU:O	2.02	0.59
4:AE:170:GLU:O	4:AE:171:ALA:C	2.40	0.59
5:AF:110:ASN:CB	5:AF:144:SER:OG	2.50	0.59
5:AF:47:LEU:HD11	5:AF:83:ARG:HH21	1.67	0.59
9:AJ:31:MET:CG	9:AJ:32:ARG:H	2.15	0.59
10:AK:9:MET:O	10:AK:13:ILE:CG1	2.50	0.59
12:AM:65:LEU:HD13	16:AQ:36:PHE:CZ	2.37	0.59
13:AN:20:TYR:O	13:AN:30:VAL:HA	2.03	0.59
15:AP:102:ARG:O	15:AP:104:ARG:N	2.31	0.59
15:AP:52:GLU:HA	15:AP:55:ARG:HD3	1.82	0.59
1:AA:1358:U:H5'	16:AQ:34:TYR:HA	1.83	0.59
17:AR:71:GLN:O	17:AR:75:PRO:HD3	2.01	0.59
19:AT:104:LYS:CD	19:AT:105:ALA:H	2.15	0.59
8:AI:62:TRP:CB	20:AU:35:ARG:HH12	2.15	0.59
1:AA:719:C:O2	20:AU:50:ILE:HG13	2.02	0.59
22:AW:28:ALA:O	22:AW:31:SER:OG	2.13	0.59
23:AX:14:TRP:CZ3	23:AX:15:ARG:NE	2.70	0.59
50:B3:20:ASN:HB2	50:B3:30:GLU:OE2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:26:LYS:HD2	54:B7:43:GLN:C	2.21	0.59
55:B8:19:ARG:HD2	55:B8:24:TYR:CG	2.38	0.59
24:BA:1069:A:H4'	24:BA:1070:A:H3'	1.83	0.59
24:BA:1239:G:H2'	24:BA:1240:U:O4'	2.01	0.59
24:BA:1343:G:H21	24:BA:1405:U:H1'	1.65	0.59
24:BA:1389:G:H5'	24:BA:1525:G:C5'	2.31	0.59
24:BA:1389:G:H5'	24:BA:1525:G:H5''	1.82	0.59
24:BA:1472:A:N7	24:BA:1474:C:C4	2.70	0.59
24:BA:1523:U:H2'	24:BA:1524:G:O4'	2.01	0.59
24:BA:1528:A:N7	24:BA:1529:A:N1	2.50	0.59
24:BA:1709:U:H2'	24:BA:1710:C:C6	2.37	0.59
24:BA:1784:A:H1'	24:BA:1785:A:N7	2.16	0.59
24:BA:1857:G:C8	24:BA:1858:G:N7	2.69	0.59
24:BA:187:G:OP1	50:B3:13:ARG:NH2	2.35	0.59
24:BA:2058:A:C2	24:BA:2059:A:N7	2.70	0.59
24:BA:2283:C:C4	24:BA:2389:G:N2	2.70	0.59
24:BA:241:A:O4'	24:BA:241:A:OP1	2.20	0.59
24:BA:2712:U:C2'	24:BA:2712(A):A:C5'	2.79	0.59
24:BA:1999:C:H5''	24:BA:2723:C:O2'	2.02	0.59
24:BA:2541:A:H2	24:BA:2765:A:N6	2.00	0.59
24:BA:2773:C:H2'	24:BA:2774:C:H6	1.67	0.59
24:BA:28:A:H1'	24:BA:513:A:C6	2.36	0.59
24:BA:450:G:H8	24:BA:450:G:O5'	1.85	0.59
24:BA:680:G:O2'	24:BA:681:G:H5'	2.02	0.59
24:BA:783:A:O2'	24:BA:784:A:P	2.60	0.59
24:BA:919:G:H2'	24:BA:920:G:C8	2.29	0.59
24:BA:936:C:H2'	24:BA:937:U:C6	2.37	0.59
24:BA:961:C:O2'	24:BA:962:G:P	2.59	0.59
25:BB:12:C:C4'	47:BZ:74:ARG:HG2	2.31	0.59
25:BB:99:A:C4	25:BB:100:G:C8	2.91	0.59
27:BD:21:PHE:HB3	27:BD:205:VAL:HG21	1.84	0.59
27:BD:260:ARG:HG3	27:BD:260:ARG:NH1	2.17	0.59
27:BD:29:PRO:HB2	27:BD:31:LYS:CD	2.33	0.59
28:BE:159:HIS:O	28:BE:160:TYR:CD1	2.55	0.59
28:BE:103:ASP:N	28:BE:200:GLU:OE1	2.34	0.59
29:BF:11:VAL:HG23	29:BF:17:ARG:NH2	2.15	0.59
29:BF:36:VAL:CG2	29:BF:183:VAL:HG21	2.21	0.59
30:BG:130:ASN:HA	30:BG:161:THR:OG1	2.02	0.59
31:BH:139:GLN:O	31:BH:143:GLN:HG3	2.03	0.59
31:BH:157:TYR:HD1	31:BH:158:HIS:HB2	1.66	0.59
31:BH:23:ARG:CZ	31:BH:34:GLU:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:45:LYS:O	32:BK:48:GLU:N	2.35	0.59
34:BM:42:TRP:HA	34:BM:47:ALA:CB	2.31	0.59
35:BN:97:ARG:HE	35:BN:99:PHE:N	2.00	0.59
35:BN:11:ALA:O	35:BN:97:ARG:NH2	2.35	0.59
36:BO:126:VAL:O	36:BO:127:ALA:HB2	2.02	0.59
24:BA:2484:G:O2'	37:BP:46:GLN:HG3	2.03	0.59
24:BA:2495:G:H5''	37:BP:82:ARG:HA	1.84	0.59
38:BQ:14:SER:C	38:BQ:17:ARG:HG2	2.22	0.59
41:BT:61:TRP:HA	41:BT:65:ILE:HD11	1.83	0.59
41:BT:5:LYS:C	41:BT:7:GLY:H	2.04	0.59
42:BU:1:MET:SD	42:BU:15:GLU:CD	2.81	0.59
44:BW:7:VAL:CG2	48:B1:31:ARG:HH22	2.14	0.59
44:BW:90:GLU:O	44:BW:93:GLU:CG	2.50	0.59
46:BY:23:LYS:HG3	46:BY:39:VAL:O	2.01	0.59
47:BZ:31:VAL:HG21	47:BZ:67:VAL:HA	1.83	0.59
32:BK:88:ILE:HD11	32:BK:123:LEU:HD13	1.83	0.59
26:BC:108:MET:HE1	26:BC:130:ILE:HG22	1.83	0.59
26:BC:183:GLU:CD	26:BC:183:GLU:N	2.53	0.59
26:BC:58:VAL:HG11	26:BC:199:HIS:HB3	1.83	0.59
24:BA:1488:G:O6	24:BA:1489:U:C2	2.55	0.59
24:BA:2187:G:O2'	24:BA:2188:C:H5'	2.02	0.59
1:AA:1065:U:OP2	1:AA:1190:G:N2	2.35	0.59
1:AA:109:A:O2'	1:AA:110:C:OP1	2.19	0.59
1:AA:1120:G:C8	1:AA:1120:G:O5'	2.55	0.59
1:AA:1279:A:O2'	1:AA:1282:C:C4	2.52	0.59
1:AA:1431:C:O2'	1:AA:1432:G:H5'	2.02	0.59
1:AA:1483:A:O5'	1:AA:1483:A:C8	2.49	0.59
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.68	0.59
1:AA:290:C:H2'	1:AA:291:C:H5'	1.83	0.59
1:AA:321:A:H61	1:AA:332:G:H1	1.49	0.59
1:AA:366:C:O2'	1:AA:367:U:P	2.60	0.59
1:AA:696:A:H2'	1:AA:697:U:C5'	2.31	0.59
1:AA:745:C:H1'	1:AA:836:G:O2'	2.02	0.59
1:AA:940:C:H2'	1:AA:941:G:C8	2.37	0.59
3:AB:33:U:O2'	3:AB:35:A:C8	2.54	0.59
3:AB:54:U:OP1	37:BP:60:ARG:CG	2.47	0.59
3:AD:5:G:C2	3:AD:6:G:N7	2.70	0.59
4:AE:132:LYS:HA	4:AE:135:GLN:OE1	2.01	0.59
4:AE:114:ARG:HH12	4:AE:141:GLU:HG3	1.66	0.59
4:AE:33:TYR:HB2	4:AE:43:ASP:HB2	1.84	0.59
6:AG:98:GLU:HA	6:AG:103:ASN:HD21	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:147:ASP:O	7:AH:148:VAL:C	2.41	0.59
8:AI:13:ASN:N	8:AI:13:ASN:HD22	1.98	0.59
1:AA:1376:U:OP1	9:AJ:98:SER:HB3	2.03	0.59
11:AL:53:VAL:HG11	11:AL:92:TYR:CZ	2.37	0.59
11:AL:87:GLN:O	11:AL:90:PRO:HD3	2.02	0.59
1:AA:676:A:H5''	13:AN:113:PRO:HB2	1.84	0.59
13:AN:23:ALA:HB2	13:AN:28:THR:CG2	2.32	0.59
1:AA:689:C:P	13:AN:55:LYS:HZ2	2.25	0.59
14:AO:86:ARG:HH22	14:AO:119:LYS:CG	2.14	0.59
15:AP:6:GLY:HA2	30:BG:114:ILE:HD12	1.83	0.59
16:AQ:34:TYR:OH	16:AQ:41:ARG:HA	2.02	0.59
1:AA:474:G:O5'	18:AS:81:ARG:HG3	2.02	0.59
19:AT:81:ARG:CG	19:AT:84:LEU:HD21	2.32	0.59
20:AU:21:LYS:HD2	20:AU:22:VAL:N	2.17	0.59
20:AU:22:VAL:HG23	20:AU:56:THR:HA	1.84	0.59
20:AU:66:LEU:O	20:AU:70:ILE:HG13	2.01	0.59
20:AU:72:ARG:CA	20:AU:75:ILE:HD12	2.18	0.59
1:AA:1320:C:C5	21:AV:72:GLY:HA3	2.36	0.59
22:AW:14:LYS:O	22:AW:15:ARG:C	2.39	0.59
49:B2:26:LEU:CD2	49:B2:28:LEU:HD11	2.25	0.59
49:B2:5:LYS:NZ	49:B2:59:VAL:HG22	2.17	0.59
51:B4:33:CYS:N	51:B4:37:LYS:O	2.30	0.59
52:B5:10:LEU:HD12	52:B5:28:ARG:NH2	2.17	0.59
36:BO:58:THR:OG1	54:B7:13:ARG:NH1	2.35	0.59
55:B8:10:ILE:HD12	55:B8:14:CYS:CB	2.33	0.59
24:BA:1227:A:H3'	24:BA:1227:A:C8	2.37	0.59
24:BA:1242:A:OP1	24:BA:1242:A:C8	2.55	0.59
24:BA:1309:G:N1	24:BA:1310:G:N7	2.50	0.59
24:BA:1398:C:C2	24:BA:1399:C:C5	2.91	0.59
24:BA:1435:G:O2'	24:BA:1436:G:H5'	2.02	0.59
24:BA:1444(A):A:N1	24:BA:1461:G:O5'	2.35	0.59
24:BA:1492:G:H5'	24:BA:1493:C:OP2	2.03	0.59
24:BA:1795:C:H2'	24:BA:1796:U:O4'	2.02	0.59
24:BA:1364:G:O5'	24:BA:1809:A:C6	2.56	0.59
1:AA:1517:G:O4'	24:BA:1920:C:OP1	2.20	0.59
24:BA:1934:C:H2'	24:BA:1935:G:H8	1.67	0.59
24:BA:2043:C:O2'	24:BA:2044:C:C5'	2.50	0.59
24:BA:237:C:H2'	24:BA:238:C:C6	2.36	0.59
24:BA:250:G:H5'	54:B7:8:LYS:HG2	1.84	0.59
24:BA:270(J):G:H2'	24:BA:270(J):G:N3	2.18	0.59
24:BA:2818:G:H4'	24:BA:2837:G:H4'	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:292:C:C2'	24:BA:293:U:N3	2.66	0.59
24:BA:281:G:H8	24:BA:427:U:O2	1.85	0.59
24:BA:672:C:H3'	36:BO:38:GLN:NE2	2.12	0.59
24:BA:962:G:C2'	24:BA:963:U:H6	2.11	0.59
25:BB:87:G:N1	25:BB:90:C:C4	2.70	0.59
27:BD:143:HIS:O	27:BD:144:ALA:HB3	2.02	0.59
27:BD:18:VAL:C	27:BD:20:ASP:N	2.56	0.59
27:BD:53:PHE:O	27:BD:54:ARG:C	2.40	0.59
27:BD:5:LYS:HB3	27:BD:29:PRO:CD	2.31	0.59
30:BG:19:LEU:HA	30:BG:22:ARG:HB3	1.85	0.59
30:BG:54:GLU:OE1	30:BG:69:ALA:O	2.20	0.59
24:BA:1035:U:O3'	31:BH:59:ARG:NH2	2.34	0.59
31:BH:6:ARG:O	31:BH:6:ARG:HG3	2.02	0.59
31:BH:85:LYS:HD2	31:BH:145:ALA:HB2	1.83	0.59
31:BH:87:LEU:N	31:BH:132:ARG:HB3	2.16	0.59
32:BK:9:LEU:HD12	32:BK:13:GLY:O	2.03	0.59
33:BL:99:ILE:HG23	33:BL:100:THR:H	1.67	0.59
34:BM:100:GLU:HA	34:BM:103:VAL:CG1	2.31	0.59
34:BM:36:GLY:O	34:BM:43:THR:N	2.36	0.59
34:BM:4:TYR:CE1	41:BT:101:ARG:NH2	2.70	0.59
35:BN:21:CYS:HA	35:BN:40:VAL:O	2.02	0.59
35:BN:64:ARG:NH2	35:BN:77:ILE:HA	2.14	0.59
36:BO:78:PRO:HG2	36:BO:117:GLU:CD	2.23	0.59
37:BP:45:GLN:O	37:BP:47:ILE:N	2.36	0.59
39:BR:4:LEU:O	39:BR:8:GLU:HG3	2.02	0.59
35:BN:77:ILE:O	40:BS:75:ILE:CG1	2.51	0.59
24:BA:566:U:C6	42:BU:82:ARG:NH2	2.70	0.59
43:BV:36:LEU:CD2	43:BV:51:LEU:HD21	2.25	0.59
44:BW:29:TRP:HA	44:BW:77:LYS:O	2.02	0.59
45:BX:1:MET:HA	45:BX:33:LYS:HG3	1.84	0.59
45:BX:12:THR:HA	45:BX:73:ARG:CZ	2.33	0.59
45:BX:76:CYS:HB3	45:BX:100:ALA:HB3	1.83	0.59
46:BY:79:ARG:HB2	46:BY:80:ARG:HH11	1.64	0.59
32:BK:113:ARG:C	32:BK:113:ARG:HD2	2.21	0.59
3:AD:8:U:N3	3:AD:14:A:N6	2.38	0.59
24:BA:2144:U:H6	24:BA:2144:U:OP2	1.85	0.59
26:BC:75:LEU:HD13	26:BC:110:PHE:CE2	2.36	0.59
26:BC:97:GLU:OE2	26:BC:119:VAL:HG12	2.02	0.59
24:BA:1485:G:N2	24:BA:1505:C:C2	2.71	0.59
14:AO:126:LYS:HD2	14:AO:128:ALA:HB3	1.84	0.59
24:BA:1579:A:H62	24:BA:1581:G:N2	1.98	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1066:C:C5	1:AA:1067:A:N7	2.70	0.59
1:AA:12:U:N3	1:AA:13:U:O4	2.36	0.59
1:AA:1347:G:C8	11:AL:107:ARG:CB	2.82	0.59
1:AA:1419:G:O6	1:AA:1482:G:C6	2.54	0.59
1:AA:321:A:O3'	1:AA:1436:U:H5'	2.02	0.59
1:AA:1435:G:C2	1:AA:1436:U:O4	2.55	0.59
1:AA:20:U:C4	1:AA:21:G:C6	2.90	0.59
1:AA:246:A:H1'	1:AA:247:G:H1'	1.82	0.59
1:AA:503:C:N3	1:AA:504:C:C5	2.70	0.59
1:AA:524:G:H2'	1:AA:525:C:H6	1.62	0.59
1:AA:562:C:C2'	14:AO:15:ARG:HB3	2.32	0.59
1:AA:579:G:C5	1:AA:580:U:C5	2.90	0.59
3:AC:11:C:H2'	3:AC:12:U:H6	1.67	0.59
3:AC:7:A:H4'	3:AC:8:U:OP2	2.02	0.59
4:AE:91:PRO:HG3	4:AE:155:LEU:H	1.66	0.59
5:AF:131:ARG:NH1	7:AH:50:GLU:OE1	2.36	0.59
5:AF:47:LEU:HD12	5:AF:83:ARG:HH21	1.66	0.59
7:AH:10:MET:HA	7:AH:32:VAL:HG22	1.84	0.59
7:AH:37:ARG:HH11	7:AH:111:GLU:C	2.06	0.59
8:AI:52:ILE:HG21	8:AI:87:ARG:NH1	2.17	0.59
9:AJ:75:VAL:HG22	9:AJ:88:PRO:N	2.16	0.59
11:AL:116:LYS:O	11:AL:121:ARG:HB3	2.02	0.59
14:AO:46:LYS:CE	14:AO:47:LYS:HZ1	2.16	0.59
15:AP:13:LYS:HB3	15:AP:17:VAL:HB	1.83	0.59
17:AR:77:ARG:NH1	17:AR:77:ARG:O	2.36	0.59
8:AI:89:MET:HG2	20:AU:76:LEU:HD21	1.84	0.59
22:AW:51:GLU:HA	22:AW:54:LYS:CG	2.32	0.59
48:B1:59:LEU:HD11	48:B1:63:ARG:CD	2.31	0.59
24:BA:247:G:O6	54:B7:11:LYS:NZ	2.35	0.59
24:BA:1005:C:O2	34:BM:28:THR:CB	2.47	0.59
24:BA:1012:U:H5'	24:BA:1013:C:OP1	2.01	0.59
24:BA:1138:G:N3	24:BA:1138:G:H2'	2.16	0.59
24:BA:1199:U:O2	24:BA:1200:C:C6	2.55	0.59
24:BA:1222:C:H2'	24:BA:1223:C:H5'	1.84	0.59
24:BA:1363:C:O3'	24:BA:1809:A:C5	2.56	0.59
24:BA:1448:G:H2'	24:BA:1449:A:C8	2.37	0.59
24:BA:1449:A:N1	24:BA:1449(A):G:C4	2.70	0.59
24:BA:1670:C:H2'	24:BA:1671:U:H5'	1.85	0.59
24:BA:1695:G:C3'	24:BA:1696:G:H5'	2.32	0.59
24:BA:1690:A:N6	24:BA:1697:G:N2	2.49	0.59
24:BA:1790:C:O2	24:BA:1790:C:C2'	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1893:C:O2'	24:BA:1894:C:H5'	2.02	0.59
24:BA:1955:U:H2'	24:BA:1955:U:O2	2.01	0.59
24:BA:1980:G:C4	24:BA:1982:C:C5	2.91	0.59
24:BA:2020:A:OP1	24:BA:2020:A:H4'	2.01	0.59
24:BA:980:A:C2	24:BA:2038:G:O4'	2.53	0.59
24:BA:2194:G:H2'	24:BA:2195:C:H5	1.67	0.59
24:BA:2525:G:N2	24:BA:2539:C:N3	2.49	0.59
24:BA:2577:A:O2'	24:BA:2612:C:C4	2.55	0.59
24:BA:270(X):G:N2	24:BA:270(Y):G:HO2'	2.00	0.59
24:BA:2810:A:H2'	24:BA:2811:G:C5'	2.33	0.59
24:BA:422:A:C2	24:BA:423:A:C4	2.91	0.59
24:BA:459:U:OP2	53:B6:40:TRP:CA	2.49	0.59
24:BA:475:U:C2	24:BA:479:A:N6	2.69	0.59
24:BA:531:C:C2	24:BA:532:A:H1'	2.38	0.59
24:BA:534:U:HO2'	41:BT:49:HIS:HE2	1.47	0.59
24:BA:59:U:O5'	24:BA:59:U:H6	1.84	0.59
24:BA:601:C:O2'	24:BA:604:G:H5''	2.02	0.59
24:BA:613:U:C5'	24:BA:614:U:C5	2.84	0.59
24:BA:736:C:O2'	24:BA:737:C:H5'	2.03	0.59
24:BA:783:A:C2	24:BA:785:G:O4'	2.56	0.59
25:BB:71:C:O2	25:BB:71:C:H2'	2.03	0.59
27:BD:111:LEU:CB	27:BD:115:GLN:HE22	2.13	0.59
27:BD:124:PRO:O	27:BD:126:GLN:N	2.33	0.59
27:BD:232:PRO:HG2	27:BD:247:ALA:N	2.16	0.59
27:BD:259:THR:HG21	27:BD:260:ARG:HH12	1.67	0.59
27:BD:31:LYS:H	27:BD:31:LYS:HD2	1.67	0.59
27:BD:73:VAL:HG12	27:BD:120:GLY:HA3	1.85	0.59
29:BF:56:GLU:O	29:BF:58:ALA:C	2.41	0.59
24:BA:674:G:C4'	29:BF:74:ARG:CZ	2.77	0.59
30:BG:97:ASP:O	30:BG:100:TRP:N	2.35	0.59
30:BG:107:LEU:CD2	30:BG:177:GLY:HA3	2.33	0.59
30:BG:75:LYS:HD3	30:BG:85:GLY:CA	2.33	0.59
33:BL:38:VAL:HA	33:BL:41:PHE:CD1	2.37	0.59
33:BL:38:VAL:HA	33:BL:41:PHE:HD1	1.67	0.59
34:BM:123:TYR:C	34:BM:125:GLY:N	2.55	0.59
35:BN:59:LYS:CE	35:BN:59:LYS:N	2.65	0.59
35:BN:68:GLU:CA	35:BN:104:ARG:CZ	2.80	0.59
35:BN:97:ARG:NH1	35:BN:98:VAL:C	2.48	0.59
37:BP:126:PRO:O	37:BP:127:ILE:HG23	2.01	0.59
38:BQ:87:TYR:HE2	38:BQ:118:GLU:OE1	1.85	0.59
40:BS:81:PRO:O	40:BS:82:LEU:C	2.40	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:97:ASP:HB3	41:BT:101:ARG:NE	2.17	0.59
42:BU:69:LYS:HA	42:BU:92:THR:HB	1.84	0.59
44:BW:91:ALA:O	44:BW:95:LEU:HG	2.02	0.59
45:BX:12:THR:HG23	45:BX:73:ARG:CG	2.32	0.59
46:BY:166:SER:O	46:BY:168:GLU:N	2.34	0.59
47:BZ:12:ASN:CA	47:BZ:14:ARG:CZ	2.68	0.59
3:AD:55:U:H6	3:AD:55:U:O5'	1.85	0.59
24:BA:2135:A:C4'	24:BA:2136:C:C5	2.76	0.59
24:BA:1115:G:H2'	24:BA:1115:G:N3	2.16	0.59
1:AA:1129:C:C4	1:AA:1139:G:O6	2.56	0.59
1:AA:1240:U:C6	9:AJ:32:ARG:NH2	2.71	0.59
1:AA:1258:G:H2'	1:AA:1259:C:C5	2.37	0.59
1:AA:1443:G:H2'	1:AA:1443:G:N3	2.16	0.59
1:AA:130:A:H5''	1:AA:190:G:H2'	1.85	0.59
1:AA:305:G:O2'	1:AA:306:G:P	2.60	0.59
1:AA:789:U:O2'	1:AA:791:G:N7	2.32	0.59
1:AA:858:G:C2	1:AA:869:G:H3'	2.36	0.59
1:AA:866:C:C6	1:AA:867:G:C1'	2.85	0.59
1:AA:89:U:H2'	1:AA:90:C:O4'	2.03	0.59
1:AA:964:A:OP1	1:AA:1199:U:OP1	2.21	0.59
1:AA:951:G:O4'	1:AA:971:G:H5'	2.02	0.59
4:AE:199:TYR:O	4:AE:201:ILE:HD12	2.03	0.59
6:AG:18:LYS:HG2	6:AG:33:MET:CB	2.25	0.59
2:A1:52:U:OP1	6:AG:50:ARG:HB2	2.01	0.59
7:AH:34:VAL:HG21	7:AH:62:ALA:CB	2.32	0.59
7:AH:79:GLU:HB3	7:AH:92:LYS:CA	2.23	0.59
8:AI:16:GLN:HG3	8:AI:17:SER:H	1.67	0.59
8:AI:60:PHE:N	8:AI:60:PHE:HD1	2.01	0.59
9:AJ:71:PRO:HA	9:AJ:138:LYS:HE3	1.84	0.59
10:AK:48:TYR:HA	10:AK:60:ARG:O	2.01	0.59
12:AM:20:ALA:HB1	12:AM:37:PRO:HB3	1.83	0.59
13:AN:73:MET:SD	13:AN:78:GLN:HB3	2.42	0.59
13:AN:85:ARG:NH1	13:AN:85:ARG:HG3	2.18	0.59
17:AR:36:ILE:HD11	17:AR:60:VAL:CG2	2.32	0.59
19:AT:3:LYS:O	19:AT:4:LYS:O	2.20	0.59
20:AU:58:LEU:CB	20:AU:62:GLU:HB3	2.18	0.59
21:AV:29:ARG:HG2	21:AV:48:THR:HB	1.85	0.59
22:AW:20:LEU:O	22:AW:23:ARG:HD3	2.03	0.59
22:AW:23:ARG:NH1	22:AW:24:LEU:HG	2.18	0.59
1:AA:1305:G:H5''	23:AX:5:ASP:N	2.18	0.59
23:AX:6:ARG:NH1	23:AX:15:ARG:CZ	2.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:6:HIS:HB2	50:B3:56:VAL:HG13	1.84	0.59
51:B4:48:GLU:HA	51:B4:58:LEU:HG	1.84	0.59
53:B6:38:GLY:O	53:B6:39:ARG:HB2	2.01	0.59
54:B7:60:LEU:HD11	54:B7:64:TYR:CB	2.32	0.59
24:BA:1049:C:C4	24:BA:1050:A:N7	2.70	0.59
24:BA:1314:C:P	24:BA:1332:G:H5'	2.41	0.59
24:BA:1498:C:C1'	24:BA:1576:U:H4'	2.33	0.59
24:BA:1646:C:C3'	24:BA:1647:G:C5'	2.68	0.59
24:BA:1820:U:O4	27:BD:159:ALA:O	2.20	0.59
24:BA:1861:G:C2'	24:BA:1862:G:H5'	2.32	0.59
24:BA:2018:G:O6	24:BA:2035:G:O6	2.21	0.59
24:BA:2047:U:O2'	24:BA:2048:G:C5'	2.51	0.59
24:BA:2318:G:P	24:BA:2318:G:H8	2.25	0.59
24:BA:239:U:H1'	24:BA:259:G:H22	1.67	0.59
24:BA:199:A:N1	24:BA:2433:A:H2'	2.17	0.59
24:BA:2063:C:C2	24:BA:2450:A:N6	2.66	0.59
24:BA:1129:A:O2'	24:BA:2515:C:H1'	2.01	0.59
24:BA:2527:C:H3'	24:BA:2527:C:OP2	2.01	0.59
24:BA:270(X):G:H4'	24:BA:273:G:H5'	1.85	0.59
24:BA:2777:G:H4'	24:BA:2778:A:C5'	2.31	0.59
24:BA:408:G:O2'	24:BA:409:C:H5'	2.02	0.59
24:BA:616:A:H2'	24:BA:616:A:N3	2.17	0.59
24:BA:637:A:C2	24:BA:651:G:H4'	2.37	0.59
24:BA:638:G:N2	24:BA:650:C:O2'	2.35	0.59
24:BA:716:A:N7	24:BA:717:G:C8	2.69	0.59
24:BA:718:A:H5''	24:BA:719:C:H5	1.67	0.59
24:BA:859:G:H3'	24:BA:859:G:C8	2.37	0.59
24:BA:890:A:O4'	24:BA:890:A:OP2	2.21	0.59
24:BA:898:C:H3'	24:BA:899:A:C5'	2.31	0.59
24:BA:928:G:O2'	49:B2:43:ILE:HG12	2.03	0.59
24:BA:997:G:N3	24:BA:998:C:C5	2.71	0.59
27:BD:143:HIS:C	27:BD:145:VAL:HG23	2.22	0.59
27:BD:5:LYS:CE	27:BD:31:LYS:HZ2	2.16	0.59
27:BD:52:ARG:HD3	27:BD:52:ARG:N	2.17	0.59
27:BD:60:ARG:CD	27:BD:62:TYR:HE2	2.10	0.59
28:BE:105:THR:CG2	28:BE:197:ILE:HD13	2.33	0.59
28:BE:147:PRO:CG	28:BE:149:ARG:CD	2.77	0.59
24:BA:2618:G:O2'	28:BE:150:VAL:HG12	2.03	0.59
28:BE:23:VAL:O	28:BE:183:LEU:HA	2.03	0.59
24:BA:38:A:H5'	29:BF:50:SER:HA	1.84	0.59
29:BF:77:ASP:O	29:BF:80:ALA:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:36:LYS:HZ3	30:BG:38:VAL:H	1.50	0.59
31:BH:103:LEU:CD1	31:BH:115:VAL:HG11	2.23	0.59
33:BL:71:THR:HG23	33:BL:114:ASP:HB3	1.85	0.59
34:BM:7:LYS:HZ2	34:BM:10:GLU:H	1.49	0.59
34:BM:4:TYR:OH	41:BT:101:ARG:NH1	2.36	0.59
35:BN:99:PHE:CD2	35:BN:100:GLY:N	2.70	0.59
35:BN:10:VAL:N	35:BN:17:ARG:O	2.36	0.59
35:BN:35:VAL:HG21	35:BN:104:ARG:NH1	2.18	0.59
35:BN:21:CYS:CA	35:BN:41:ALA:HB2	2.31	0.59
38:BQ:11:ASN:OD1	38:BQ:12:ARG:HG3	2.02	0.59
40:BS:1:MET:CG	40:BS:2:ASN:N	2.64	0.59
45:BX:74:PRO:HB3	45:BX:101:LYS:CA	2.32	0.59
46:BY:30:ASN:O	46:BY:31:ARG:C	2.40	0.59
32:BK:114:LEU:CD2	32:BK:130:TYR:HB3	2.32	0.59
32:BK:137:PRO:HB2	32:BK:139:GLN:HE22	1.67	0.59
26:BC:82:LYS:HB3	26:BC:149:ILE:HG21	1.83	0.59
26:BC:163:PHE:N	26:BC:163:PHE:HD2	2.00	0.59
6:AG:43:HIS:CB	6:AG:46:LYS:HG3	2.18	0.59
1:AA:1143:G:N2	1:AA:1144:G:C4	2.71	0.59
1:AA:1285:A:C4'	1:AA:1286:A:N7	2.65	0.59
1:AA:1291:G:N2	1:AA:1292:U:C2	2.71	0.59
1:AA:1300:G:HO2'	1:AA:1301:U:H6	1.50	0.59
1:AA:1483:A:H2'	1:AA:1484:C:C5'	2.33	0.59
1:AA:357:G:P	1:AA:367:U:H2'	2.42	0.59
1:AA:397:A:O2'	1:AA:399:G:OP2	2.14	0.59
1:AA:449:C:C4	1:AA:450:G:H1'	2.38	0.59
1:AA:46:G:H22	1:AA:366:C:H1'	1.68	0.59
1:AA:510:A:H8	1:AA:510:A:O5'	1.85	0.59
1:AA:552:U:C2'	1:AA:553:A:H5'	2.33	0.59
1:AA:558:G:C4	1:AA:559:A:C2	2.90	0.59
1:AA:668:G:O2'	1:AA:669:U:H5'	2.03	0.59
1:AA:64:G:H5'	1:AA:66:G:OP1	2.02	0.59
1:AA:675:A:H2'	1:AA:676:A:O4'	2.01	0.59
1:AA:764:C:C4	1:AA:765:G:O6	2.56	0.59
1:AA:859:A:N6	1:AA:860:A:C2	2.70	0.59
1:AA:21:G:N2	1:AA:916:G:C5	2.71	0.59
3:AB:74:C:C5	24:BA:2555:U:N3	2.71	0.59
5:AF:29:TYR:C	5:AF:29:TYR:CD2	2.76	0.59
6:AG:165:MET:CE	6:AG:167:GLY:H	2.15	0.59
7:AH:114:GLY:O	7:AH:115:VAL:CG1	2.51	0.59
7:AH:80:ILE:CD1	7:AH:91:LEU:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:79:LEU:O	8:AI:80:ARG:C	2.40	0.59
9:AJ:38:LEU:CD1	9:AJ:41:ARG:HD3	2.32	0.59
10:AK:126:LYS:NZ	10:AK:127:LEU:HB2	2.18	0.59
13:AN:13:GLN:HA	13:AN:76:GLY:HA3	1.85	0.59
14:AO:83:VAL:CG2	14:AO:84:LEU:H	2.08	0.59
14:AO:85:ILE:CG2	14:AO:85:ILE:O	2.51	0.59
14:AO:91:LYS:O	14:AO:92:ASP:HB3	2.03	0.59
15:AP:52:GLU:CA	15:AP:55:ARG:NE	2.64	0.59
12:AM:54:PHE:H	16:AQ:41:ARG:NH2	2.01	0.59
1:AA:1217:C:OP1	16:AQ:8:GLU:OE2	2.21	0.59
19:AT:25:ARG:HH21	19:AT:40:LYS:CD	1.99	0.59
21:AV:43:GLU:O	21:AV:47:HIS:NE2	2.30	0.59
22:AW:13:LEU:C	22:AW:17:ARG:HH21	2.06	0.59
24:BA:988:A:O3'	49:B2:10:LYS:NZ	2.36	0.59
52:B5:22:ALA:O	52:B5:23:THR:HG23	2.02	0.59
24:BA:2284:C:P	52:B5:9:LEU:HG	2.42	0.59
53:B6:43:THR:HG23	53:B6:46:VAL:HB	1.85	0.59
54:B7:26:LYS:HZ2	54:B7:43:GLN:HA	1.68	0.59
54:B7:34:TRP:O	54:B7:36:LYS:N	2.33	0.59
55:B8:17:ILE:CD1	55:B8:26:ILE:HD12	2.16	0.59
24:BA:1000:A:C2	24:BA:1155:A:C4	2.91	0.59
24:BA:1423:G:N3	24:BA:1424:G:C8	2.71	0.59
24:BA:1439:A:C2	24:BA:1553:A:C6	2.91	0.59
24:BA:1445:C:H2'	24:BA:1446:C:C6	2.38	0.59
24:BA:1521:G:C3'	24:BA:1522:G:H5'	2.33	0.59
24:BA:2193:G:C2	24:BA:2194:G:C8	2.90	0.59
24:BA:2199:A:OP2	24:BA:2205:C:H5	1.85	0.59
24:BA:2283:C:H2'	24:BA:2284:C:H4'	1.85	0.59
24:BA:2355:C:C4	24:BA:2356:C:C4	2.91	0.59
24:BA:2657:A:C4	24:BA:2665:A:N3	2.71	0.59
24:BA:2740:A:N6	24:BA:2764:A:H1'	2.17	0.59
24:BA:315:G:H2'	24:BA:316:C:C1'	2.32	0.59
24:BA:366:C:C6	24:BA:366:C:O5'	2.56	0.59
24:BA:465:G:O2'	24:BA:466:A:H5'	2.02	0.59
24:BA:502:A:C2'	24:BA:503:A:H5'	2.33	0.59
24:BA:569:U:P	24:BA:945:A:H61	2.26	0.59
24:BA:649:G:H5''	24:BA:650:C:OP2	2.02	0.59
24:BA:728:G:O2'	24:BA:729:G:C5'	2.50	0.59
24:BA:763:G:H5'	27:BD:211:ARG:NH1	2.18	0.59
24:BA:784:A:O2'	24:BA:785:G:H5'	2.03	0.59
24:BA:914:C:H2'	24:BA:915:C:H5'	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:28:GLU:N	27:BD:29:PRO:HD2	2.17	0.59
27:BD:95:LEU:HD13	27:BD:96:HIS:N	2.18	0.59
28:BE:104:VAL:HG12	28:BE:105:THR:H	1.67	0.59
28:BE:113:PHE:CD1	28:BE:113:PHE:N	2.69	0.59
28:BE:119:ARG:HH22	28:BE:155:LYS:HD2	1.67	0.59
28:BE:118:LYS:O	28:BE:120:TRP:N	2.34	0.59
28:BE:129:HIS:HD2	28:BE:129:HIS:H	1.50	0.59
28:BE:91:VAL:CG2	28:BE:180:ASN:HD21	2.15	0.59
28:BE:94:GLU:O	28:BE:95:ILE:C	2.40	0.59
30:BG:12:TYR:CZ	30:BG:13:GLU:HG3	2.38	0.59
30:BG:4:ASP:HB3	30:BG:104:GLU:OE2	2.02	0.59
32:BK:34:GLY:C	32:BK:35:LEU:HD22	2.22	0.59
32:BK:33:ARG:HB2	32:BK:35:LEU:CD2	2.33	0.59
32:BK:9:LEU:HB3	32:BK:13:GLY:HA3	1.84	0.59
33:BL:10:LEU:HD12	33:BL:23:VAL:HG22	1.81	0.59
35:BN:25:LEU:HD22	35:BN:38:VAL:CG2	2.25	0.59
36:BO:29:LYS:C	36:BO:30:THR:CG2	2.70	0.59
36:BO:77:ARG:NH2	36:BO:117:GLU:HG3	2.17	0.59
37:BP:48:GLU:O	37:BP:51:ARG:CG	2.37	0.59
40:BS:82:LEU:HD22	40:BS:84:GLN:HB2	1.84	0.59
41:BT:9:VAL:O	41:BT:12:ARG:HB2	2.02	0.59
24:BA:996:A:C4'	41:BT:93:LYS:HG3	2.26	0.59
44:BW:3:THR:O	44:BW:4:ALA:CB	2.50	0.59
44:BW:39:ILE:HG21	44:BW:54:VAL:CG1	2.29	0.59
44:BW:63:LYS:CA	44:BW:63:LYS:CE	2.81	0.59
46:BY:118:GLN:HB2	46:BY:144:LEU:CD2	2.27	0.59
46:BY:91:LEU:HB2	46:BY:131:ARG:NH1	2.18	0.59
46:BY:166:SER:OG	46:BY:167:PRO:CD	2.49	0.59
46:BY:41:LEU:O	46:BY:44:PHE:N	2.36	0.59
47:BZ:25:ARG:HG2	47:BZ:37:LEU:HA	1.84	0.59
47:BZ:56:ASP:C	47:BZ:57:PHE:HD1	2.06	0.59
26:BC:10:LEU:HD11	26:BC:32:LEU:CD2	2.33	0.59
24:BA:1583:A:H5'	24:BA:1585:C:OP1	2.01	0.59
29:BF:146:ALA:HB3	29:BF:148:LEU:HD23	1.83	0.59
2:A1:39:U:H5''	2:A1:40:U:C5'	2.32	0.59
1:AA:1025:U:H2'	1:AA:1026:G:C8	2.37	0.59
1:AA:1376:U:O5'	1:AA:1376:U:H6	1.85	0.59
1:AA:1405:G:C4'	1:AA:1519:A:H4'	2.33	0.59
1:AA:1433:A:C8	1:AA:1468:A:N6	2.71	0.59
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.02	0.59
1:AA:1500:A:OP1	1:AA:1508:G:OP1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:370:C:H2'	1:AA:371:G:H8	1.68	0.59
1:AA:369:C:OP2	1:AA:388:G:N1	2.35	0.59
1:AA:397:A:C2'	1:AA:399:G:OP2	2.49	0.59
1:AA:474:G:OP1	18:AS:80:PHE:O	2.21	0.59
1:AA:836:G:P	20:AU:61:LYS:HZ1	2.26	0.59
1:AA:978:A:N6	1:AA:1361:G:N2	2.38	0.59
4:AE:113:HIS:HA	4:AE:116:GLU:OE1	2.02	0.59
4:AE:15:VAL:HG11	4:AE:209:ARG:CB	2.31	0.59
4:AE:41:ILE:N	4:AE:41:ILE:HD12	2.16	0.59
5:AF:122:GLU:O	5:AF:125:GLU:HB2	2.02	0.59
5:AF:64:VAL:O	5:AF:66:VAL:HG23	2.02	0.59
6:AG:148:VAL:CB	6:AG:181:MET:HE3	2.24	0.59
6:AG:194:LEU:CB	6:AG:196:LEU:HD11	2.31	0.59
9:AJ:122:HIS:HA	9:AJ:125:MET:SD	2.43	0.59
9:AJ:41:ARG:HG2	9:AJ:41:ARG:HH11	1.66	0.59
9:AJ:50:ILE:O	9:AJ:54:THR:O	2.20	0.59
10:AK:122:ARG:N	10:AK:122:ARG:HD3	2.17	0.59
10:AK:41:ARG:HB3	10:AK:41:ARG:HH11	1.64	0.59
10:AK:79:VAL:O	10:AK:81:HIS:N	2.36	0.59
1:AA:1177:G:OP2	11:AL:93:ARG:NH2	2.35	0.59
13:AN:48:ILE:HD11	13:AN:64:ALA:CA	2.32	0.59
13:AN:73:MET:SD	13:AN:103:LEU:HD22	2.43	0.59
13:AN:87:THR:HG22	13:AN:91:ARG:NH1	2.16	0.59
15:AP:19:LEU:HD12	15:AP:20:THR:H	1.66	0.59
15:AP:8:GLU:HG3	15:AP:22:ILE:CG1	2.25	0.59
1:AA:1358:U:C5'	16:AQ:34:TYR:HA	2.32	0.59
17:AR:70:LEU:HD11	17:AR:77:ARG:HH21	1.67	0.59
17:AR:70:LEU:HG	17:AR:78:TYR:HB2	1.85	0.59
19:AT:22:LEU:HD12	19:AT:40:LYS:O	2.02	0.59
19:AT:51:TYR:CD1	19:AT:51:TYR:N	2.61	0.59
20:AU:39:VAL:O	20:AU:42:ARG:HB2	2.03	0.59
22:AW:104:LEU:O	22:AW:105:SER:O	2.21	0.59
23:AX:23:PRO:C	23:AX:25:LYS:H	2.04	0.59
49:B2:55:ARG:HH21	49:B2:55:ARG:HG3	1.67	0.59
24:BA:2623:G:H21	51:B4:22:HIS:HE1	1.46	0.59
51:B4:37:LYS:N	51:B4:37:LYS:HD2	2.18	0.59
55:B8:11:CYS:CB	55:B8:32:HIS:NE2	2.64	0.59
24:BA:98:G:N2	24:BA:103:A:C2	2.70	0.59
24:BA:1065:U:C2	24:BA:1066:U:O4'	2.55	0.59
24:BA:1065:U:H3'	24:BA:1066:U:H5''	1.84	0.59
24:BA:1181:C:H2'	24:BA:1182:A:C8	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:974:G:C4	24:BA:1186:G:C6	2.90	0.59
24:BA:1214:A:H62	24:BA:1236:G:H21	1.50	0.59
24:BA:140:A:H1'	24:BA:1409:C:H5'	1.84	0.59
24:BA:1410:G:H2'	24:BA:1411:C:O4'	2.02	0.59
24:BA:1457:A:O2'	24:BA:1458:C:H5'	2.02	0.59
24:BA:145:G:C6	24:BA:146:G:C6	2.90	0.59
24:BA:154:G:N2	24:BA:155:C:C2	2.70	0.59
24:BA:1667:G:O6	24:BA:1992:G:P	2.60	0.59
24:BA:1771:C:C2	24:BA:1772:G:C8	2.90	0.59
24:BA:1789:A:C3'	27:BD:213:ARG:HH12	2.15	0.59
24:BA:1826:G:C2'	24:BA:1827:C:H5'	2.33	0.59
24:BA:1890:A:H3'	24:BA:1891:G:C8	2.35	0.59
24:BA:1908:C:N3	24:BA:1923:U:O2	2.36	0.59
24:BA:197:A:C2	24:BA:198:C:O4'	2.56	0.59
24:BA:2046:G:H2'	24:BA:2047:U:C5	2.38	0.59
24:BA:185:U:C2	24:BA:212:G:N2	2.71	0.59
24:BA:2228:G:C8	24:BA:2229:C:C5	2.90	0.59
24:BA:2335:A:H2'	24:BA:2337:G:C8	2.37	0.59
24:BA:834:C:O2'	24:BA:2358:G:N3	2.25	0.59
24:BA:2712:U:H2'	24:BA:2712(A):A:C5'	2.18	0.59
24:BA:2742:C:C5'	55:B8:35:ARG:NH1	2.65	0.59
24:BA:2882:A:C2'	24:BA:2883:A:O5'	2.50	0.59
24:BA:515:A:C3'	24:BA:515:A:C8	2.86	0.59
24:BA:522:G:H2'	24:BA:523:C:H6	1.67	0.59
24:BA:573:G:H2'	24:BA:574:C:C5'	2.33	0.59
24:BA:695:G:O2'	24:BA:696:G:H5'	2.03	0.59
24:BA:748:G:O6	43:BV:90:ARG:NH1	2.36	0.59
25:BB:60:C:C2'	25:BB:60:C:O2	2.51	0.59
27:BD:143:HIS:NE2	27:BD:192:THR:CG2	2.65	0.59
27:BD:34:VAL:O	27:BD:36:PRO:HD2	2.03	0.59
28:BE:103:ASP:C	28:BE:104:VAL:HG23	2.23	0.59
28:BE:50:GLY:H	28:BE:76:ARG:CG	2.10	0.59
29:BF:39:TRP:CZ3	29:BF:43:LYS:HB2	2.37	0.59
30:BG:119:GLY:HA3	30:BG:180:PHE:CD2	2.37	0.59
34:BM:51:PHE:CD2	34:BM:119:ARG:HB2	2.38	0.59
34:BM:38:HIS:C	34:BM:42:TRP:CE3	2.76	0.59
35:BN:63:VAL:CG2	35:BN:82:ASN:H	2.15	0.59
36:BO:16:ARG:HD3	36:BO:19:VAL:H	1.66	0.59
24:BA:832:G:OP2	36:BO:35:HIS:CG	2.56	0.59
36:BO:36:LYS:HZ2	36:BO:42:SER:CB	2.15	0.59
36:BO:81:GLN:HE22	36:BO:123:LEU:HD21	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:77:LYS:HB2	37:BP:78:PRO:CD	2.32	0.59
39:BR:66:ALA:O	39:BR:68:GLN:N	2.36	0.59
40:BS:82:LEU:C	40:BS:84:GLN:N	2.55	0.59
41:BT:65:ILE:H	41:BT:65:ILE:HD13	1.65	0.59
42:BU:11:GLN:NE2	42:BU:24:LYS:NZ	2.37	0.59
42:BU:93:GLU:OE2	42:BU:95:LEU:HD22	2.01	0.59
42:BU:61:VAL:C	42:BU:99:ILE:HB	2.23	0.59
47:BZ:44:ARG:CG	47:BZ:77:ARG:HG3	2.33	0.59
26:BC:22:ILE:HG23	26:BC:189:ILE:CD1	2.32	0.59
1:AA:345:C:H5'	1:AA:346:G:C5	2.38	0.59
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.37	0.59
6:AG:151:LYS:CD	6:AG:151:LYS:H	2.14	0.59
24:BA:56:A:H2'	24:BA:57:C:C6	2.36	0.59
2:A1:12:U:H5'	2:A1:13:U:OP2	2.02	0.59
1:AA:1269:A:H8	1:AA:1270:C:C1'	2.15	0.59
1:AA:1443:G:OP1	1:AA:1446:A:OP1	2.21	0.59
1:AA:1490:C:H2'	1:AA:1491:G:C5'	2.32	0.59
1:AA:221:C:H2'	1:AA:222:U:C6	2.37	0.59
1:AA:355:C:N3	1:AA:356:A:N7	2.51	0.59
1:AA:555:C:H5''	1:AA:556:C:OP2	2.02	0.59
1:AA:816:A:C2'	1:AA:817:C:OP2	2.49	0.59
1:AA:859:A:O2'	1:AA:860:A:C5'	2.50	0.59
1:AA:886:G:HO2'	1:AA:887:G:H5'	1.67	0.59
1:AA:244:U:O4	1:AA:893:C:N3	2.36	0.59
1:AA:979:C:P	1:AA:981:U:O4	2.60	0.59
3:AB:74:C:C2'	3:AB:75:C:H5'	2.32	0.59
3:AC:74:C:C2'	3:AC:75:C:H5''	2.33	0.59
4:AE:46:LYS:HA	4:AE:49:GLU:OE1	2.03	0.59
5:AF:43:LEU:CD1	5:AF:55:VAL:HG11	2.32	0.59
5:AF:42:LEU:HD12	5:AF:94:LEU:CD1	2.32	0.59
1:AA:619:U:O2	6:AG:133:VAL:HG13	2.03	0.59
7:AH:41:VAL:HG21	7:AH:113:ALA:HB2	1.84	0.59
7:AH:12:LEU:HD13	7:AH:12:LEU:O	2.03	0.59
7:AH:140:ARG:HH11	7:AH:140:ARG:HB3	1.67	0.59
7:AH:48:ALA:HB3	7:AH:53:LEU:CB	2.26	0.59
7:AH:43:LEU:O	7:AH:65:ASN:ND2	2.36	0.59
10:AK:40:ALA:HA	10:AK:43:GLY:O	2.01	0.59
13:AN:18:ARG:NH2	13:AN:36:ASP:O	2.35	0.59
14:AO:110:VAL:O	14:AO:113:ARG:HB2	2.02	0.59
20:AU:75:ILE:CG2	20:AU:76:LEU:HD22	2.33	0.59
21:AV:2:PRO:O	21:AV:3:ARG:O	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:40:THR:HG21	49:B2:42:ALA:HB3	1.85	0.59
50:B3:47:GLN:CA	50:B3:52:THR:OG1	2.51	0.59
51:B4:13:LYS:HB3	51:B4:16:ARG:HH11	1.66	0.59
54:B7:36:LYS:HG3	54:B7:40:GLU:OE1	2.03	0.59
55:B8:3:VAL:O	55:B8:5:ALA:N	2.35	0.59
24:BA:1101:U:H2'	24:BA:1102:C:C6	2.38	0.59
24:BA:1122:G:C2	24:BA:1123:C:C5	2.90	0.59
24:BA:1264:G:O6	24:BA:1265:A:C5	2.56	0.59
24:BA:1427:A:OP1	24:BA:1427:A:H8	1.85	0.59
24:BA:1472:A:N6	24:BA:1518:C:N4	2.51	0.59
24:BA:1675:C:O2	24:BA:1675:C:H2'	2.02	0.59
24:BA:1944:U:O2	24:BA:1955:U:C6	2.56	0.59
24:BA:2081:C:C2	24:BA:2082:A:C8	2.90	0.59
24:BA:2093:G:H2'	24:BA:2094:G:C5'	2.32	0.59
24:BA:2216:G:O5'	24:BA:2216:G:H8	1.85	0.59
24:BA:2230:G:H2'	24:BA:2231:C:C6	2.37	0.59
24:BA:245:G:H1	24:BA:253:C:N4	2.00	0.59
24:BA:2543:G:C5	24:BA:2544:G:C6	2.90	0.59
24:BA:1669:A:H5''	24:BA:2550:G:P	2.42	0.59
24:BA:2520:C:H5	24:BA:2567:G:C4	2.21	0.59
24:BA:2567:G:C5	24:BA:2568:C:N4	2.71	0.59
24:BA:2838:G:O2'	38:BQ:45:ARG:NH1	2.34	0.59
24:BA:344:G:H2'	24:BA:345:A:C1'	2.33	0.59
24:BA:36:G:H4'	24:BA:451:C:O2	2.03	0.59
24:BA:412:A:H2'	24:BA:413:C:O4'	2.01	0.59
24:BA:476:G:N1	24:BA:479:A:OP2	2.30	0.59
24:BA:648:G:H2'	24:BA:649:G:H8	1.65	0.59
24:BA:779:U:H3'	24:BA:780:G:C8	2.37	0.59
25:BB:61:G:H2'	25:BB:62:C:C6	2.38	0.59
25:BB:73:A:O2'	25:BB:74:U:O5'	2.21	0.59
25:BB:97:G:C2'	25:BB:98:G:H5'	2.31	0.59
24:BA:2227:A:C5'	27:BD:260:ARG:HD2	2.33	0.59
27:BD:41:GLY:C	27:BD:60:ARG:HH12	2.06	0.59
27:BD:60:ARG:HB3	27:BD:62:TYR:CE2	2.38	0.59
28:BE:13:ARG:HD2	28:BE:13:ARG:C	2.23	0.59
28:BE:53:PRO:HD2	28:BE:75:VAL:HG13	1.85	0.59
29:BF:155:LEU:HD22	29:BF:157:VAL:HG12	1.84	0.59
29:BF:34:TRP:O	29:BF:37:VAL:N	2.36	0.59
29:BF:36:VAL:CG1	29:BF:37:VAL:N	2.64	0.59
30:BG:131:TYR:CZ	30:BG:132:ASN:HA	2.38	0.59
31:BH:156:ALA:HB1	31:BH:172:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:33:LEU:CD2	31:BH:35:VAL:HG13	2.32	0.59
24:BA:557:U:O3'	34:BM:112:LEU:CG	2.50	0.59
35:BN:109:LYS:O	35:BN:111:PHE:N	2.35	0.59
36:BO:46:LYS:HA	36:BO:49:ARG:NH1	2.17	0.59
37:BP:111:GLU:C	37:BP:113:GLN:N	2.55	0.59
38:BQ:38:VAL:HG23	38:BQ:110:PRO:O	2.03	0.59
40:BS:105:LEU:O	40:BS:107:ASP:N	2.36	0.59
40:BS:33:LYS:HD3	40:BS:47:GLY:CA	2.32	0.59
41:BT:97:ASP:CB	41:BT:101:ARG:NH2	2.66	0.59
45:BX:46:LYS:N	45:BX:57:GLN:HA	2.18	0.59
25:BB:104:A:HO2'	46:BY:29:TYR:HH	1.50	0.59
3:AD:8:U:O4'	3:AD:48:C:H4'	2.03	0.59
24:BA:2144:U:C6	24:BA:2144:U:OP2	2.56	0.59
24:BA:2165:G:C8	24:BA:2165:G:OP2	2.56	0.59
26:BC:210:ARG:CZ	26:BC:210:ARG:HB3	2.33	0.59
26:BC:21:THR:HG22	26:BC:225:ASN:HD22	1.67	0.59
1:AA:1085:U:O2	1:AA:1094:G:O6	2.21	0.59
1:AA:1129:C:C5	1:AA:1139:G:N7	2.71	0.59
1:AA:1269:A:H8	1:AA:1270:C:H1'	1.68	0.59
1:AA:1311:G:OP2	21:AV:2:PRO:N	2.36	0.59
1:AA:251:G:H5'	1:AA:252:U:OP1	2.01	0.59
1:AA:597:G:C5	1:AA:644:G:N1	2.71	0.59
1:AA:87:A:H62	1:AA:88:C:N4	2.00	0.59
1:AA:969:A:OP1	1:AA:969:A:O4'	2.21	0.59
3:AB:8:U:O4	3:AB:14:A:H5''	2.03	0.59
3:AC:21:A:N6	3:AC:46:G:C2	2.70	0.59
4:AE:10:LEU:O	4:AE:11:LEU:O	2.21	0.59
4:AE:185:ILE:HB	4:AE:199:TYR:HB2	1.85	0.59
5:AF:17:ASP:OD2	5:AF:18:TRP:CZ3	2.56	0.59
6:AG:170:VAL:HG12	6:AG:171:GLY:H	1.68	0.59
6:AG:19:LEU:N	6:AG:33:MET:HE1	2.06	0.59
6:AG:52:SER:C	6:AG:54:TYR:H	2.06	0.59
6:AG:57:ARG:HH22	7:AH:107:ARG:NE	2.01	0.59
1:AA:5:U:C5	6:AG:86:LYS:HD3	2.38	0.59
7:AH:11:ILE:CB	7:AH:31:LEU:HD22	2.31	0.59
9:AJ:77:SER:CA	9:AJ:156:TRP:HZ2	2.16	0.59
10:AK:38:ILE:HA	10:AK:41:ARG:HB2	1.85	0.59
10:AK:88:LYS:HZ3	10:AK:88:LYS:HB2	1.68	0.59
12:AM:16:LEU:HB3	12:AM:70:ARG:CG	2.32	0.59
13:AN:73:MET:HE2	13:AN:103:LEU:HD22	1.84	0.59
13:AN:19:ALA:N	13:AN:80:VAL:CG2	2.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:60:LEU:HD11	14:AO:64:TYR:HB3	1.85	0.59
15:AP:78:ILE:O	15:AP:81:LEU:HD22	2.03	0.59
20:AU:27:GLY:O	20:AU:28:GLU:C	2.40	0.59
48:B1:14:VAL:HA	48:B1:17:GLU:OE2	2.01	0.59
48:B1:44:LYS:HG3	48:B1:48:LEU:CD2	2.28	0.59
50:B3:53:GLU:CG	50:B3:54:GLY:N	2.66	0.59
52:B5:35:GLU:CD	52:B5:52:VAL:HG13	2.22	0.59
24:BA:126:A:H5'	53:B6:18:PHE:CD1	2.37	0.59
52:B5:11:LEU:HD22	54:B7:35:GLN:CD	2.22	0.59
24:BA:1184:G:O2'	24:BA:1185:C:H5'	2.02	0.59
24:BA:443:A:O4'	24:BA:1201:C:O4'	2.21	0.59
24:BA:1240:U:O2	24:BA:1240:U:H2'	2.02	0.59
24:BA:1264:G:N7	24:BA:1265:A:C8	2.71	0.59
24:BA:1267:U:OP2	24:BA:2012:G:O6	2.21	0.59
24:BA:1275:A:N6	24:BA:1295:C:O2'	2.35	0.59
24:BA:1357:U:C4	24:BA:1358:G:C2	2.91	0.59
24:BA:150:C:O2	24:BA:151:C:C5	2.56	0.59
24:BA:175:G:H21	24:BA:176:G:H1'	1.66	0.59
24:BA:1764:G:N2	24:BA:1989:G:H1'	2.17	0.59
24:BA:1819:A:OP1	27:BD:157:ARG:HA	2.01	0.59
24:BA:2025:C:H2'	24:BA:2026:C:C5	2.37	0.59
24:BA:223:A:N7	24:BA:408:G:H1'	2.18	0.59
24:BA:2291:U:H2'	24:BA:2292:C:H6	1.64	0.59
24:BA:2396:G:O2'	24:BA:2397:G:H5'	2.02	0.59
24:BA:2075:U:H5	24:BA:2435:A:N1	2.01	0.59
24:BA:2469:A:C5	24:BA:2470:G:C8	2.91	0.59
24:BA:2765:A:C2'	24:BA:2765:A:N3	2.55	0.59
24:BA:2772:C:O2	24:BA:2772:C:H2'	2.03	0.59
24:BA:2774:C:H3'	24:BA:2775:A:H8	1.67	0.59
24:BA:2828:C:N4	24:BA:2829:C:H41	2.01	0.59
24:BA:2844:G:H3'	24:BA:2845:G:C8	2.38	0.59
24:BA:2845:G:H2'	24:BA:2846:G:H8	1.68	0.59
24:BA:714:U:H6	24:BA:714:U:OP2	1.86	0.59
24:BA:728:G:C1'	24:BA:729:G:C8	2.86	0.59
24:BA:754:C:H2'	24:BA:755:C:H5'	1.85	0.59
24:BA:77:C:H2'	24:BA:78:A:H8	1.68	0.59
24:BA:83:G:N1	24:BA:102:G:O2'	2.35	0.59
24:BA:846:C:HO2'	24:BA:847:U:P	2.24	0.59
24:BA:914:C:C5	24:BA:915:C:C5	2.91	0.59
25:BB:4:C:N4	25:BB:5:C:C4	2.71	0.59
24:BA:1775:U:C6	27:BD:208:LYS:CD	2.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:154:LYS:NZ	28:BE:156:MET:CE	2.66	0.59
29:BF:122:LYS:CE	29:BF:192:LEU:HB3	2.33	0.59
29:BF:7:TYR:H	29:BF:20:LEU:CD2	2.15	0.59
30:BG:116:ASP:CB	30:BG:118:ARG:HH21	2.12	0.59
30:BG:110:ALA:HB1	30:BG:139:LEU:CD2	2.32	0.59
30:BG:147:ASP:O	30:BG:148:MET:HB2	2.02	0.59
30:BG:166:ASP:O	30:BG:168:GLU:N	2.36	0.59
30:BG:39:ILE:HA	30:BG:157:ILE:HG13	1.85	0.59
31:BH:163:TYR:O	31:BH:164:TYR:O	2.21	0.59
31:BH:76:VAL:O	31:BH:79:VAL:HG22	2.02	0.59
33:BL:21:PRO:HG2	33:BL:22:PRO:CD	2.32	0.59
33:BL:79:ARG:HG2	33:BL:136:VAL:CG2	2.32	0.59
34:BM:97:ARG:O	34:BM:100:GLU:CB	2.51	0.59
34:BM:107:LEU:HD23	34:BM:108:PRO:N	2.16	0.59
34:BM:27:ALA:O	34:BM:29:LYS:N	2.36	0.59
34:BM:29:LYS:C	34:BM:31:ALA:N	2.52	0.59
34:BM:91:LEU:O	34:BM:92:ALA:C	2.39	0.59
35:BN:39:ILE:HD13	35:BN:39:ILE:H	1.67	0.59
24:BA:832:G:OP1	36:BO:35:HIS:HB2	2.02	0.59
36:BO:90:ARG:HA	36:BO:125:VAL:HG22	1.85	0.59
37:BP:80:GLU:N	37:BP:80:GLU:OE1	2.36	0.59
40:BS:113:LYS:O	40:BS:114:LEU:C	2.40	0.59
40:BS:82:LEU:HD22	40:BS:84:GLN:H	1.68	0.59
41:BT:39:LEU:O	41:BT:40:PHE:C	2.41	0.59
42:BU:83:ARG:HD3	42:BU:83:ARG:C	2.24	0.59
43:BV:31:GLU:N	43:BV:31:GLU:OE1	2.35	0.59
44:BW:85:PRO:HB2	44:BW:87:GLN:HE21	1.68	0.59
45:BX:7:VAL:O	45:BX:8:LYS:HD2	2.03	0.59
46:BY:96:VAL:CG1	46:BY:128:VAL:HG22	2.32	0.59
46:BY:169:GLU:O	46:BY:169:GLU:HG2	2.02	0.59
46:BY:59:LEU:C	46:BY:59:LEU:HD23	2.22	0.59
46:BY:7:ALA:HB1	46:BY:9:TYR:O	2.02	0.59
47:BZ:76:GLY:N	47:BZ:78:TYR:HE1	2.01	0.59
32:BK:69:LYS:HA	32:BK:138:ILE:CD1	2.33	0.59
3:AD:18:G:C2	3:AD:19:G:H1'	2.36	0.59
3:AD:59:U:OP2	3:AD:59:U:O4'	2.21	0.59
3:AD:60:U:H2'	3:AD:61:C:OP1	2.03	0.59
24:BA:2124:G:H21	26:BC:218:MET:N	2.01	0.59
26:BC:77:ILE:CG2	26:BC:123:VAL:HG22	2.29	0.59
26:BC:39:GLU:O	26:BC:178:ALA:HB2	2.02	0.59
1:AA:232:G:C5	1:AA:233:C:N4	2.71	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:44:U:C2	2:A1:45:U:C5	2.90	0.59
1:AA:1074:G:H2'	1:AA:1075:C:O4'	2.03	0.59
1:AA:1129:C:C1'	1:AA:1130:A:N7	2.65	0.59
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.65	0.59
1:AA:1361:G:N7	1:AA:1362:C:H5	2.01	0.59
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.03	0.59
1:AA:173:U:H5''	1:AA:197:A:H1'	1.82	0.59
1:AA:508:C:H4'	1:AA:509:A:O5'	2.03	0.59
1:AA:296:U:HO2'	1:AA:556:C:HO2'	1.50	0.59
1:AA:692:U:O4	13:AN:53:SER:N	2.36	0.59
1:AA:748:C:O2'	1:AA:749:C:C6	2.54	0.59
1:AA:921:U:C2	1:AA:922:G:C8	2.90	0.59
4:AE:189:ASP:OD2	4:AE:205:ASP:OD1	2.20	0.59
4:AE:58:ILE:HG22	4:AE:221:LEU:HD12	1.85	0.59
4:AE:58:ILE:HG22	4:AE:61:LEU:HD22	1.83	0.59
5:AF:114:PRO:HD3	5:AF:183:ASP:OD1	2.03	0.59
5:AF:157:ILE:O	5:AF:158:GLY:C	2.41	0.59
5:AF:150:LYS:CB	5:AF:173:VAL:HG21	2.22	0.59
6:AG:82:ALA:HB1	6:AG:89:THR:HA	1.84	0.59
7:AH:106:PRO:HB3	7:AH:120:THR:HG21	1.85	0.59
7:AH:76:ILE:HG21	7:AH:142:LEU:CD1	2.33	0.59
7:AH:61:TYR:HA	7:AH:64:ARG:HG2	1.85	0.59
9:AJ:65:ALA:HB2	9:AJ:124:LEU:HD23	1.83	0.59
10:AK:39:LEU:HD12	10:AK:45:ILE:HG22	1.85	0.59
10:AK:17:THR:HG21	10:AK:80:ILE:HG21	1.84	0.59
13:AN:112:THR:N	13:AN:113:PRO:CD	2.64	0.59
13:AN:86:GLY:CA	13:AN:112:THR:HG23	2.33	0.59
15:AP:38:GLY:O	15:AP:39:ILE:HG23	2.03	0.59
15:AP:3:ARG:HG2	15:AP:7:VAL:HA	1.84	0.59
49:B2:23:LEU:CB	49:B2:28:LEU:HD12	2.32	0.59
49:B2:4:LEU:CD2	49:B2:56:VAL:HG23	2.27	0.59
24:BA:400:G:N1	50:B3:63:TYR:OH	2.30	0.59
53:B6:1:MET:HG3	53:B6:1:MET:O	2.03	0.59
24:BA:1050:A:H2'	24:BA:1051:G:O4'	2.02	0.59
24:BA:1205:U:O2'	24:BA:1206:G:O6	2.20	0.59
24:BA:1296:G:H2'	24:BA:1297:C:C6	2.36	0.59
24:BA:1422:G:N3	24:BA:1423:G:C8	2.70	0.59
24:BA:1654:A:N3	24:BA:1654:A:H2'	2.18	0.59
24:BA:1684:C:C4	24:BA:1705:G:N2	2.71	0.59
24:BA:1913:A:N1	24:BA:1918:A:N7	2.51	0.59
24:BA:1667:G:O6	24:BA:1992:G:OP1	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2018:G:H3'	24:BA:2018:G:P	2.43	0.59
24:BA:2049:G:N2	24:BA:2620:C:N1	2.51	0.59
24:BA:2232:U:C2'	24:BA:2233:U:H5'	2.33	0.59
24:BA:2269:A:H2'	24:BA:2270:G:O4'	2.03	0.59
24:BA:2277:G:H3'	24:BA:2278:A:C5'	2.25	0.59
24:BA:2401:U:OP2	24:BA:2402:C:N4	2.35	0.59
24:BA:2521:C:C2'	24:BA:2522:U:O5'	2.51	0.59
24:BA:2524:G:C6	24:BA:2525:G:C4	2.91	0.59
24:BA:2574:G:O2'	28:BE:143:ASN:HB3	2.03	0.59
24:BA:2637:U:O2'	24:BA:2638:G:O4'	2.19	0.59
24:BA:2642:G:H2'	24:BA:2643:G:H8	1.67	0.59
24:BA:2742:C:O2	24:BA:2742:C:H2'	2.02	0.59
24:BA:2778:A:H4'	24:BA:2779:U:OP2	2.02	0.59
24:BA:2861:G:H2'	24:BA:2862:G:H8	1.67	0.59
24:BA:2879:C:H5'	24:BA:2880:C:OP1	2.02	0.59
24:BA:293:U:H2'	24:BA:294:A:C8	2.36	0.59
24:BA:31:C:H5''	24:BA:1239:G:OP1	2.02	0.59
24:BA:386:G:H4'	24:BA:387:U:C6	2.38	0.59
24:BA:411:G:N2	24:BA:415:A:H61	2.00	0.59
24:BA:66:C:H2'	24:BA:67:U:H5'	1.83	0.59
24:BA:733:G:N7	24:BA:761:A:C6	2.70	0.59
24:BA:7:G:H2'	24:BA:8:A:H8	1.67	0.59
24:BA:818:G:OP2	24:BA:1187:G:O6	2.20	0.59
24:BA:827:U:OP1	24:BA:2429:G:OP2	2.20	0.59
25:BB:32:C:H3'	25:BB:33:G:H8	1.68	0.59
25:BB:69:G:C8	25:BB:69:G:OP2	2.56	0.59
27:BD:59:LYS:O	27:BD:60:ARG:HG2	2.01	0.59
29:BF:106:ARG:HG3	29:BF:107:LYS:HG3	1.85	0.59
30:BG:44:GLY:HA3	30:BG:72:ARG:HG2	1.84	0.59
31:BH:95:ARG:HB2	31:BH:106:THR:HB	1.84	0.59
31:BH:45:VAL:HG13	31:BH:50:VAL:CG2	2.32	0.59
31:BH:6:ARG:HD3	31:BH:69:ARG:CD	2.33	0.59
32:BK:21:VAL:HG11	32:BK:30:LEU:CG	2.33	0.59
34:BM:16:ILE:CB	34:BM:54:VAL:HG23	2.29	0.59
36:BO:49:ARG:CA	36:BO:52:GLU:HG2	2.33	0.59
36:BO:55:ARG:HH21	36:BO:55:ARG:CA	2.16	0.59
37:BP:111:GLU:OE1	37:BP:112:GLU:HG3	2.02	0.59
38:BQ:103:ARG:HB2	38:BQ:108:GLY:CA	2.32	0.59
39:BR:105:ALA:O	39:BR:108:GLY:N	2.36	0.59
39:BR:71:ARG:N	39:BR:104:GLY:HA2	2.17	0.59
40:BS:64:ARG:CZ	40:BS:77:PRO:CB	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:99:ALA:HA	41:BT:106:PHE:CD1	2.37	0.59
41:BT:108:GLU:CD	41:BT:109:LEU:N	2.55	0.59
41:BT:54:LYS:CA	41:BT:54:LYS:HE2	2.32	0.59
42:BU:66:ARG:HE	42:BU:95:LEU:CB	2.12	0.59
46:BY:43:GLU:HA	46:BY:46:LYS:HD2	1.84	0.59
47:BZ:53:MET:SD	47:BZ:59:LEU:HD23	2.43	0.59
24:BA:2135:A:C5'	24:BA:2136:C:C5	2.86	0.59
1:AA:1044:A:C2'	1:AA:1045:C:H5'	2.31	0.58
1:AA:1053:G:H4'	1:AA:1054:C:O3'	2.02	0.58
1:AA:1064:G:C1'	1:AA:1066:C:N3	2.63	0.58
1:AA:1135:U:O3'	1:AA:1136:U:H6	1.86	0.58
1:AA:953:G:C6	1:AA:1229:A:C6	2.91	0.58
1:AA:135:C:C2	18:AS:1:MET:HG2	2.38	0.58
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.68	0.58
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.68	0.58
1:AA:173:U:H4'	1:AA:197:A:C4	2.38	0.58
1:AA:189:U:C2	19:AT:72:ARG:NH1	2.70	0.58
1:AA:230:G:N2	1:AA:231:G:H1'	2.18	0.58
1:AA:267:C:N4	1:AA:268:C:H41	1.99	0.58
1:AA:278:G:H1'	1:AA:282:A:H1'	1.85	0.58
1:AA:362:G:H3'	14:AO:34:ARG:NH2	2.18	0.58
1:AA:445:G:O2'	1:AA:446:G:H5'	2.03	0.58
1:AA:439:A:H1'	1:AA:496:A:N1	2.18	0.58
1:AA:918:A:HO2'	1:AA:919:A:P	2.26	0.58
1:AA:926:G:N2	2:A1:39:U:P	2.76	0.58
4:AE:25:ASN:HD21	4:AE:27:LYS:HG3	1.67	0.58
4:AE:82:ARG:HB2	4:AE:94:ASN:HD22	1.68	0.58
5:AF:157:ILE:HG13	5:AF:164:ARG:CB	2.33	0.58
6:AG:79:PHE:CE1	6:AG:204:ILE:HG23	2.38	0.58
6:AG:52:SER:O	6:AG:55:ALA:N	2.36	0.58
6:AG:8:VAL:HG13	6:AG:11:LEU:HD12	1.85	0.58
8:AI:69:GLU:O	8:AI:72:VAL:HG13	2.02	0.58
9:AJ:75:VAL:CG1	9:AJ:76:ARG:N	2.66	0.58
11:AL:11:LYS:O	11:AL:11:LYS:HG2	2.03	0.58
12:AM:12:ASP:HB3	12:AM:15:THR:HG22	1.85	0.58
13:AN:29:ILE:HA	13:AN:44:SER:OG	2.03	0.58
1:AA:1228:C:C4'	15:AP:116:THR:HA	2.28	0.58
15:AP:73:GLU:C	15:AP:73:GLU:CD	2.62	0.58
16:AQ:23:ARG:NE	16:AQ:30:ALA:HB2	2.17	0.58
18:AS:31:LYS:HG2	18:AS:32:TYR:H	1.68	0.58
20:AU:53:ARG:NH1	20:AU:58:LEU:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:27:LYS:O	22:AW:28:ALA:C	2.39	0.58
22:AW:91:LEU:N	22:AW:91:LEU:HD23	2.18	0.58
49:B2:50:VAL:HG13	49:B2:53:LEU:CG	2.32	0.58
52:B5:30:THR:HB	52:B5:31:PRO:HD2	1.83	0.58
55:B8:1:MET:N	55:B8:33:LYS:HB2	2.17	0.58
24:BA:1000:A:C8	24:BA:1001:A:C5	2.91	0.58
24:BA:1083:U:H1'	24:BA:1085:A:N7	2.18	0.58
24:BA:1127:A:H3'	24:BA:1127:A:C8	2.38	0.58
24:BA:1147:C:O2'	24:BA:1148:A:H5'	2.03	0.58
24:BA:1149:G:O2'	24:BA:1150:C:H5'	2.03	0.58
24:BA:1199:U:OP2	24:BA:1199:U:H6	1.86	0.58
24:BA:1248:G:N1	29:BF:52:LYS:NZ	2.50	0.58
24:BA:1268:A:H2'	24:BA:1269:A:C8	2.37	0.58
24:BA:1343:G:N2	24:BA:1405:U:N1	2.51	0.58
24:BA:1363:C:H1'	24:BA:1810:A:H1'	1.83	0.58
24:BA:1365:A:C5	24:BA:1366:A:N7	2.70	0.58
24:BA:1516:U:H2'	24:BA:1517:G:C8	2.38	0.58
24:BA:1535:U:H3'	24:BA:1536:A:C8	2.38	0.58
24:BA:1612:C:C2	24:BA:1620:G:N2	2.71	0.58
24:BA:1625:C:O2	24:BA:1626:G:O2'	2.15	0.58
24:BA:1637:A:H2'	24:BA:1638:C:C6	2.38	0.58
24:BA:1655:A:C2'	24:BA:1656:C:C6	2.86	0.58
24:BA:1655:A:H4'	28:BE:113:PHE:C	2.24	0.58
24:BA:1667:G:N2	24:BA:1991:U:N3	2.51	0.58
24:BA:1820:U:H5	27:BD:159:ALA:C	2.06	0.58
24:BA:1827:C:OP1	24:BA:1971:A:O2'	2.20	0.58
24:BA:1992:G:C8	24:BA:1997:G:C6	2.91	0.58
24:BA:2283:C:C5	24:BA:2389:G:C2	2.90	0.58
24:BA:2371:G:H2'	24:BA:2372:G:O4'	2.03	0.58
24:BA:2291:U:H5'	24:BA:2380:C:O2	2.02	0.58
24:BA:2346:A:N3	24:BA:2383:G:C5	2.71	0.58
24:BA:2496:C:N1	24:BA:2497:A:H2	2.00	0.58
24:BA:2570:G:C2	24:BA:2571:C:C2	2.91	0.58
24:BA:2584:U:C3'	24:BA:2584:U:C6	2.86	0.58
24:BA:2626:C:H6	24:BA:2626:C:O5'	1.85	0.58
24:BA:270(V):G:H2'	24:BA:270(W):G:C8	2.38	0.58
24:BA:2853:C:O2'	24:BA:2854:G:H5'	2.03	0.58
24:BA:2884:U:H2'	24:BA:2885:C:O4'	2.03	0.58
24:BA:410:G:H5''	24:BA:411:G:OP2	2.03	0.58
24:BA:460:A:C3'	24:BA:461:C:H6	2.16	0.58
24:BA:4:C:H2'	24:BA:5:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:729:G:C5	24:BA:730:C:C6	2.92	0.58
24:BA:816:C:C2'	24:BA:817:C:H5'	2.33	0.58
24:BA:828:U:C2'	24:BA:829:A:C8	2.74	0.58
24:BA:881:G:N2	24:BA:896:A:C6	2.67	0.58
24:BA:909:A:H2'	24:BA:912:C:H5	1.67	0.58
24:BA:976:C:H4'	24:BA:1156:A:N7	2.17	0.58
25:BB:99:A:O2'	25:BB:100:G:H5'	2.03	0.58
25:BB:77:U:O2'	46:BY:78:LYS:NZ	2.33	0.58
27:BD:229:VAL:HG13	27:BD:230:ASP:OD1	2.02	0.58
27:BD:23:GLU:OE2	27:BD:24:ILE:O	2.20	0.58
27:BD:258:LYS:HG2	27:BD:259:THR:N	2.17	0.58
28:BE:167:VAL:HG21	28:BE:187:ALA:HB3	1.85	0.58
28:BE:91:VAL:HG21	28:BE:93:VAL:CG1	2.24	0.58
29:BF:197:ASP:HB2	29:BF:200:GLU:CD	2.23	0.58
30:BG:134:GLY:O	30:BG:135:LEU:HB3	2.03	0.58
30:BG:49:ASP:O	30:BG:53:LEU:HD13	2.03	0.58
31:BH:85:LYS:HB2	31:BH:85:LYS:HZ2	1.68	0.58
32:BK:5:LEU:CD2	32:BK:18:VAL:HA	2.33	0.58
33:BL:23:VAL:O	33:BL:34:ILE:HA	2.02	0.58
33:BL:35:MET:CA	33:BL:38:VAL:HB	2.28	0.58
34:BM:54:VAL:C	34:BM:130:HIS:CE1	2.77	0.58
35:BN:116:SER:O	35:BN:119:PRO:HG3	2.03	0.58
35:BN:16:ALA:C	35:BN:18:LYS:N	2.57	0.58
35:BN:39:ILE:O	35:BN:58:VAL:HA	2.03	0.58
36:BO:72:PRO:HB2	36:BO:111:ARG:HB2	1.81	0.58
37:BP:93:TYR:C	37:BP:94:VAL:HG12	2.23	0.58
39:BR:17:ARG:O	39:BR:20:ARG:HB2	2.03	0.58
35:BN:106:LEU:HD21	40:BS:38:ASN:HD21	1.68	0.58
40:BS:28:VAL:CG2	40:BS:93:ARG:C	2.71	0.58
24:BA:2847:U:C3'	40:BS:99:LEU:HD12	2.31	0.58
24:BA:1250:G:H4'	41:BT:6:THR:HG21	1.83	0.58
42:BU:65:GLY:N	42:BU:97:LYS:NZ	2.49	0.58
42:BU:17:GLY:O	42:BU:98:GLU:HG3	2.03	0.58
43:BV:43:GLY:O	43:BV:47:VAL:CG2	2.51	0.58
44:BW:5:TYR:HB3	48:B1:24:LYS:NZ	2.18	0.58
46:BY:120:ILE:HB	46:BY:123:ASP:OD2	2.03	0.58
46:BY:144:LEU:CA	46:BY:174:VAL:HG11	2.33	0.58
24:BA:2387:U:O2	47:BZ:41:ARG:NH2	2.35	0.58
3:AD:56:C:C6	24:BA:2169:A:H1'	2.38	0.58
14:AO:126:LYS:HE3	14:AO:126:LYS:H	1.68	0.58
2:A1:31:U:H2'	2:A1:32:U:O4'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1212:U:O2'	1:AA:1213:A:O5'	2.20	0.58
1:AA:1417:G:H22	1:AA:1482:G:H2'	1.67	0.58
1:AA:1419:G:C2'	1:AA:1420:C:H6	2.16	0.58
1:AA:46:G:H1'	1:AA:396:G:H22	1.68	0.58
1:AA:582:U:C5'	17:AR:64:ARG:NH2	2.64	0.58
1:AA:676:A:H2'	1:AA:677:U:H6	1.68	0.58
3:AB:55:U:N3	3:AB:57:G:H5''	2.18	0.58
4:AE:31:TYR:HE2	4:AE:200:ILE:CG2	2.15	0.58
4:AE:58:ILE:O	4:AE:61:LEU:N	2.36	0.58
5:AF:126:ARG:O	5:AF:127:ARG:HB2	2.02	0.58
5:AF:150:LYS:HZ3	5:AF:152:ILE:CG2	2.15	0.58
5:AF:30:ARG:HD3	5:AF:30:ARG:N	2.18	0.58
6:AG:130:GLY:O	6:AG:131:ARG:C	2.40	0.58
6:AG:155:LEU:HB2	6:AG:158:ILE:CG1	2.26	0.58
6:AG:185:PHE:CD2	6:AG:186:LEU:N	2.71	0.58
6:AG:206:PHE:HD2	6:AG:207:TYR:CD1	2.20	0.58
6:AG:30:LYS:NZ	6:AG:35:ARG:HD2	2.17	0.58
6:AG:85:LYS:NZ	6:AG:85:LYS:HB3	2.18	0.58
7:AH:141:GLN:OE1	7:AH:141:GLN:N	2.35	0.58
8:AI:79:LEU:N	8:AI:79:LEU:HD23	2.17	0.58
10:AK:6:ILE:C	10:AK:6:ILE:HD13	2.24	0.58
11:AL:89:ASN:ND2	11:AL:92:TYR:CE1	2.72	0.58
12:AM:48:THR:HA	12:AM:62:HIS:HB3	1.84	0.58
13:AN:23:ALA:CB	13:AN:88:GLY:HA3	2.32	0.58
13:AN:63:LEU:O	13:AN:63:LEU:HD23	2.02	0.58
15:AP:67:GLU:OE2	15:AP:68:GLY:N	2.36	0.58
16:AQ:24:CYS:CB	16:AQ:40:CYS:N	2.60	0.58
16:AQ:39:LEU:HD12	16:AQ:44:LEU:HD12	1.84	0.58
18:AS:15:PRO:HD2	18:AS:42:ARG:NE	2.19	0.58
18:AS:6:LEU:CD2	18:AS:6:LEU:C	2.71	0.58
20:AU:17:SER:HB3	20:AU:54:ARG:NH1	2.18	0.58
20:AU:47:THR:O	20:AU:47:THR:HG22	2.02	0.58
21:AV:40:ILE:CD1	21:AV:71:LEU:HD23	2.32	0.58
48:B1:36:ILE:HG23	48:B1:41:GLN:HE22	1.67	0.58
50:B3:37:SER:OG	50:B3:38:LYS:N	2.36	0.58
50:B3:41:PRO:HB3	50:B3:58:ARG:CD	2.31	0.58
50:B3:7:PRO:O	50:B3:60:GLN:OE1	2.21	0.58
24:BA:120:U:C2'	24:BA:120:U:O2	2.51	0.58
24:BA:139:G:O6	24:BA:1595:G:O2'	2.14	0.58
24:BA:1422:G:H2'	24:BA:1423:G:C8	2.37	0.58
24:BA:1471:A:C8	24:BA:1521:G:C2	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1609:A:H1'	24:BA:1616:A:H4'	1.85	0.58
24:BA:1681:G:H2'	24:BA:1682:G:OP1	2.03	0.58
24:BA:1688:U:C2	24:BA:1700:A:H5''	2.38	0.58
24:BA:1802:A:OP1	24:BA:1814:G:N2	2.26	0.58
24:BA:1841:U:C2	24:BA:1842:G:N7	2.71	0.58
24:BA:191:A:C2	24:BA:192:C:C6	2.90	0.58
24:BA:921:G:H4'	24:BA:2269:A:C8	2.38	0.58
24:BA:2309:A:C2	24:BA:2310:A:O4'	2.56	0.58
24:BA:2493:U:O4	24:BA:2494:G:C8	2.56	0.58
24:BA:2586:C:N4	24:BA:2587:A:N6	2.50	0.58
24:BA:270(A):A:H8	24:BA:370:G:O4'	1.85	0.58
24:BA:2859:G:H2'	24:BA:2860:A:H8	1.68	0.58
24:BA:2875:C:O3'	40:BS:2:ASN:HB3	2.04	0.58
24:BA:295:G:C1'	24:BA:345:A:C2	2.86	0.58
24:BA:388:G:P	50:B3:23:GLU:HB3	2.43	0.58
24:BA:407:G:H2'	24:BA:408:G:N7	2.17	0.58
24:BA:236:C:H4'	24:BA:431:U:H1'	1.85	0.58
24:BA:50:U:H3'	24:BA:50:U:H6	1.67	0.58
24:BA:546:C:C4	24:BA:547:A:N6	2.71	0.58
24:BA:569:U:H4'	24:BA:946:G:N3	2.18	0.58
24:BA:573:G:H2'	24:BA:574:C:H5''	1.85	0.58
24:BA:612:G:O2'	24:BA:615:G:H2'	2.03	0.58
24:BA:649:G:N3	24:BA:649:G:H2'	2.18	0.58
24:BA:811:U:H3'	24:BA:811:U:C6	2.38	0.58
24:BA:82:G:N2	24:BA:83:G:H22	2.01	0.58
24:BA:905:U:N3	24:BA:906:G:C8	2.71	0.58
24:BA:980:A:C6	24:BA:1135:C:C4'	2.86	0.58
25:BB:62:C:H2'	25:BB:63:G:C8	2.26	0.58
29:BF:124:LEU:HD11	29:BF:200:GLU:OE2	2.03	0.58
29:BF:74:ARG:CZ	29:BF:75:HIS:CA	2.81	0.58
32:BK:39:ALA:O	32:BK:43:ASN:CB	2.45	0.58
34:BM:23:LEU:HD12	34:BM:63:THR:CB	2.32	0.58
35:BN:10:VAL:HG13	35:BN:17:ARG:HA	1.84	0.58
35:BN:21:CYS:SG	35:BN:40:VAL:O	2.62	0.58
35:BN:15:GLY:HA2	35:BN:47:ILE:HG13	1.86	0.58
36:BO:76:LYS:HE3	36:BO:99:LEU:HD11	1.85	0.58
38:BQ:26:LYS:HE2	38:BQ:70:LEU:CA	2.32	0.58
39:BR:26:LEU:C	39:BR:26:LEU:HD13	2.24	0.58
40:BS:6:LEU:HD23	40:BS:7:ILE:N	2.14	0.58
42:BU:3:ALA:CB	42:BU:44:LYS:HZ2	2.15	0.58
41:BT:89:GLU:CD	42:BU:52:VAL:H	2.07	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:90:GLU:O	44:BW:93:GLU:HG3	2.02	0.58
45:BX:29:GLU:HB2	45:BX:32:PRO:O	2.03	0.58
46:BY:96:VAL:CA	46:BY:128:VAL:HG13	2.30	0.58
46:BY:29:TYR:HD2	46:BY:89:PHE:CE2	2.20	0.58
32:BK:54:GLN:NE2	32:BK:57:ARG:HB3	2.18	0.58
3:AD:67:C:H2'	3:AD:68:C:O4'	2.03	0.58
7:AH:73:ASN:ND2	7:AH:73:ASN:O	2.32	0.58
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.38	0.58
1:AA:110:C:H6	1:AA:110:C:O5'	1.85	0.58
1:AA:114:U:H2'	1:AA:115:G:H8	1.68	0.58
1:AA:1178:G:N2	1:AA:1180:A:H5''	2.18	0.58
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.04	0.58
1:AA:1274:G:H2'	1:AA:1275:A:C8	2.38	0.58
1:AA:1514:C:H2'	1:AA:1515:C:C5	2.38	0.58
1:AA:16:A:H1'	7:AH:17:ALA:HB3	1.84	0.58
1:AA:148:G:N2	1:AA:175:C:C4	2.71	0.58
1:AA:244:U:C2'	1:AA:245:C:OP2	2.50	0.58
1:AA:246:A:H4'	1:AA:247:G:H4'	1.84	0.58
1:AA:262:A:C6	1:AA:263:A:N6	2.72	0.58
1:AA:278:G:C4	19:AT:95:TYR:HE2	2.21	0.58
1:AA:300:A:H2'	1:AA:301:G:C5'	2.33	0.58
1:AA:306:G:C4	1:AA:307:C:C5	2.91	0.58
1:AA:866:C:H3'	1:AA:867:G:C8	2.37	0.58
1:AA:950:U:O2'	1:AA:951:G:H5'	2.03	0.58
3:AD:33:U:H3'	3:AD:34:G:C5'	2.32	0.58
4:AE:192:SER:O	4:AE:194:PRO:CD	2.51	0.58
4:AE:222:ILE:O	4:AE:226:ARG:CB	2.42	0.58
5:AF:157:ILE:HG21	5:AF:164:ARG:HE	1.67	0.58
5:AF:178:LEU:O	5:AF:179:ARG:CB	2.51	0.58
5:AF:5:ILE:CG2	12:AM:51:ARG:HH12	2.16	0.58
5:AF:83:ARG:C	5:AF:85:ARG:H	2.05	0.58
7:AH:136:MET:HA	7:AH:139:LEU:HD12	1.84	0.58
8:AI:41:GLU:H	8:AI:63:TYR:HD1	1.49	0.58
9:AJ:73:MET:CE	9:AJ:146:GLU:HB2	2.32	0.58
9:AJ:47:CYS:HA	9:AJ:50:ILE:HD12	1.84	0.58
9:AJ:54:THR:O	9:AJ:55:GLY:C	2.42	0.58
11:AL:117:HIS:C	11:AL:119:ALA:H	2.04	0.58
11:AL:43:ALA:O	11:AL:45:ALA:N	2.35	0.58
1:AA:973:G:C1'	12:AM:55:LYS:H	2.15	0.58
14:AO:10:LEU:HD21	14:AO:15:ARG:HE	1.69	0.58
15:AP:81:LEU:CD2	15:AP:82:MET:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:35:ARG:NH1	17:AR:59:MET:HE2	2.18	0.58
19:AT:58:GLU:HG2	19:AT:59:ILE:N	2.17	0.58
21:AV:36:ARG:HB2	21:AV:71:LEU:HB3	1.85	0.58
22:AW:34:LYS:O	22:AW:38:LYS:HG3	2.04	0.58
23:AX:9:ARG:HD2	23:AX:9:ARG:N	2.16	0.58
48:B1:23:LYS:CE	48:B1:55:LEU:HD21	2.33	0.58
50:B3:5:ILE:HD13	50:B3:60:GLN:CD	2.23	0.58
51:B4:39:MET:HE3	51:B4:41:PRO:CD	2.24	0.58
51:B4:44:THR:C	51:B4:52:TYR:OH	2.41	0.58
52:B5:39:TYR:O	52:B5:40:CYS:HB3	2.03	0.58
55:B8:1:MET:O	55:B8:33:LYS:O	2.22	0.58
24:BA:1024:G:C4	24:BA:1025:G:C8	2.91	0.58
24:BA:1366:A:C8	24:BA:1366:A:OP2	2.56	0.58
24:BA:1433:U:H6	24:BA:1433:U:H3'	1.68	0.58
24:BA:1448:G:H2'	24:BA:1449:A:H8	1.68	0.58
24:BA:1526:G:N2	24:BA:1545(A):A:H62	2.00	0.58
24:BA:1671:U:O2'	28:BE:129:HIS:CE1	2.57	0.58
24:BA:1953:A:N6	24:BA:2550:G:H5'	2.18	0.58
24:BA:1973:G:H2'	24:BA:1974:C:C6	2.37	0.58
24:BA:1977:A:N3	24:BA:1978:A:C8	2.71	0.58
24:BA:2091:U:H2'	24:BA:2092:U:C5'	2.24	0.58
24:BA:2306:C:H5	24:BA:2311:A:N6	2.00	0.58
24:BA:2466:C:C4	24:BA:2485:G:N1	2.71	0.58
24:BA:2512:C:OP1	28:BE:120:TRP:CH2	2.56	0.58
24:BA:2545:G:C2'	24:BA:2546:U:H5'	2.33	0.58
24:BA:2821:A:OP1	28:BE:110:GLY:N	2.36	0.58
24:BA:643:A:C1'	24:BA:644:A:C8	2.87	0.58
24:BA:763:G:O2'	24:BA:765:G:H5'	2.03	0.58
24:BA:775:G:C4'	24:BA:777:A:C4	2.84	0.58
24:BA:878:A:H2'	24:BA:879:G:C5'	2.32	0.58
24:BA:972:G:N7	24:BA:973:A:C8	2.71	0.58
25:BB:9:G:C5	25:BB:112:G:C6	2.91	0.58
27:BD:132:PRO:HD3	27:BD:190:TYR:CZ	2.38	0.58
27:BD:5:LYS:HD2	27:BD:81:ALA:HB1	1.85	0.58
28:BE:53:PRO:CD	28:BE:75:VAL:HG13	2.34	0.58
28:BE:8:LYS:CD	28:BE:9:VAL:N	2.65	0.58
29:BF:11:VAL:HG22	29:BF:125:LEU:O	2.03	0.58
29:BF:84:VAL:O	29:BF:86:GLY:N	2.36	0.58
30:BG:135:LEU:O	30:BG:155:MET:O	2.21	0.58
30:BG:33:ARG:NH2	30:BG:34:LEU:N	2.50	0.58
30:BG:64:THR:HG21	30:BG:92:VAL:HG11	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:103:LEU:O	31:BH:113:VAL:O	2.21	0.58
32:BK:21:VAL:HG12	32:BK:21:VAL:O	2.04	0.58
34:BM:67:LEU:HA	34:BM:70:LYS:HZ1	1.67	0.58
35:BN:35:VAL:HA	35:BN:61:VAL:HG11	1.85	0.58
36:BO:96:THR:CG2	36:BO:99:LEU:HD12	2.33	0.58
38:BQ:38:VAL:CG1	38:BQ:39:PRO:HD3	2.33	0.58
38:BQ:52:ILE:HD13	38:BQ:56:LYS:HG2	1.84	0.58
38:BQ:80:PHE:O	38:BQ:84:ALA:HB3	2.03	0.58
39:BR:29:PHE:CE1	39:BR:34:HIS:NE2	2.71	0.58
40:BS:54:ARG:C	40:BS:55:ASN:OD1	2.41	0.58
40:BS:95:ARG:HD2	40:BS:96:ARG:CZ	2.33	0.58
42:BU:61:VAL:C	42:BU:62:LEU:HD23	2.24	0.58
44:BW:21:PHE:HD2	44:BW:26:TYR:HA	1.69	0.58
24:BA:64:A:H2	44:BW:66:LEU:HD13	1.67	0.58
44:BW:62:LYS:HA	44:BW:72:LYS:HB3	1.85	0.58
45:BX:74:PRO:HB2	45:BX:100:ALA:CB	2.34	0.58
46:BY:9:TYR:HD2	46:BY:14:LYS:HZ3	1.47	0.58
24:BA:2278:A:N6	47:BZ:14:ARG:HB3	2.18	0.58
47:BZ:72:ARG:CD	47:BZ:75:LEU:HD22	2.33	0.58
32:BK:130:TYR:O	32:BK:138:ILE:HG22	2.03	0.58
32:BK:57:ARG:CG	32:BK:61:ARG:HH21	2.16	0.58
24:BA:2116:G:C5'	24:BA:2117:A:OP2	2.48	0.58
26:BC:108:MET:SD	26:BC:131:LEU:CD2	2.87	0.58
26:BC:97:GLU:CG	26:BC:122:ALA:HB3	2.30	0.58
26:BC:32:LEU:HD13	26:BC:220:PRO:CB	2.33	0.58
1:AA:1173:G:H2'	1:AA:1174:G:H5''	1.85	0.58
33:BL:120:LEU:H	33:BL:120:LEU:HD23	1.68	0.58
1:AA:101:A:C4	1:AA:102:G:N7	2.72	0.58
1:AA:1143:G:N3	1:AA:1144:G:C8	2.71	0.58
1:AA:1181:G:O3'	1:AA:1184:G:H5'	2.04	0.58
1:AA:133:U:H5'	1:AA:134:A:P	2.44	0.58
1:AA:186(A):C:O2'	22:AW:89:ARG:NH2	2.36	0.58
1:AA:357:G:H1'	1:AA:368:U:O2	2.02	0.58
1:AA:482:A:C2'	1:AA:482:A:N3	2.66	0.58
1:AA:656:C:H2'	1:AA:657:G:H5'	1.85	0.58
1:AA:815:A:C2	1:AA:1527:C:O2	2.57	0.58
3:AC:25:C:H2'	3:AC:26:A:H8	1.68	0.58
4:AE:100:GLY:C	4:AE:104:ASN:HD21	2.07	0.58
4:AE:109:SER:O	4:AE:110:GLN:C	2.42	0.58
4:AE:169:LYS:C	4:AE:171:ALA:H	2.05	0.58
4:AE:19:HIS:CA	4:AE:39:ILE:HD11	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:98:GLU:O	6:AG:103:ASN:HB3	2.04	0.58
6:AG:60:GLU:OE2	6:AG:202:LEU:HD12	2.02	0.58
6:AG:63:LYS:H	6:AG:63:LYS:HD2	1.67	0.58
7:AH:102:ALA:CB	7:AH:106:PRO:CB	2.79	0.58
7:AH:72:GLN:NE2	7:AH:144:THR:HA	2.18	0.58
9:AJ:115:ARG:CB	9:AJ:118:VAL:CG2	2.77	0.58
9:AJ:31:MET:CG	9:AJ:32:ARG:N	2.58	0.58
10:AK:119:LEU:HD12	10:AK:123:GLU:OE2	2.03	0.58
10:AK:30:ARG:O	10:AK:33:GLU:HB2	2.03	0.58
10:AK:6:ILE:CD1	10:AK:7:ALA:N	2.66	0.58
14:AO:85:ILE:HG13	14:AO:87:GLY:N	2.14	0.58
15:AP:22:ILE:HB	15:AP:25:ILE:HG13	1.84	0.58
1:AA:1358:U:OP1	16:AQ:34:TYR:HA	2.02	0.58
17:AR:41:GLU:HA	17:AR:44:LYS:HE3	1.85	0.58
1:AA:375:U:O2'	18:AS:6:LEU:HD21	2.04	0.58
20:AU:17:SER:HB3	20:AU:54:ARG:CZ	2.34	0.58
20:AU:26:LEU:HD22	20:AU:39:VAL:CG2	2.33	0.58
22:AW:43:LEU:HD12	22:AW:55:ILE:CD1	2.24	0.58
50:B3:15:ILE:C	50:B3:16:CYS:SG	2.81	0.58
53:B6:11:LYS:HE3	53:B6:15:THR:HG21	1.84	0.58
53:B6:42:LEU:HD22	53:B6:44:PRO:HG3	1.86	0.58
53:B6:9:ARG:O	53:B6:13:ALA:HB2	2.03	0.58
54:B7:27:THR:H	54:B7:44:LYS:NZ	2.01	0.58
24:BA:1155:A:O2'	24:BA:1156:A:H5''	2.03	0.58
24:BA:1248:G:OP1	41:BT:2:PRO:N	2.35	0.58
24:BA:1472:A:N9	24:BA:1473:G:N7	2.52	0.58
24:BA:1555:G:H2'	24:BA:1556:C:C5	2.37	0.58
24:BA:1560:G:H2'	24:BA:1561:G:H8	1.67	0.58
24:BA:1671:U:O2	24:BA:1673:U:H5'	2.03	0.58
24:BA:1695:G:N2	24:BA:1696:G:C8	2.72	0.58
24:BA:1789:A:C2'	27:BD:213:ARG:HH12	2.16	0.58
1:AA:1517:G:H1'	24:BA:1920:C:P	2.43	0.58
24:BA:1928:A:C3'	24:BA:1929:G:H5'	2.33	0.58
24:BA:529:A:N6	24:BA:2023:G:C4	2.71	0.58
24:BA:2421:G:C2'	24:BA:2422:A:H8	1.96	0.58
24:BA:2445:G:C2'	24:BA:2446:G:C8	2.67	0.58
24:BA:2496:C:OP1	37:BP:83:MET:CE	2.52	0.58
24:BA:2539:C:H2'	24:BA:2540:C:H6	1.67	0.58
24:BA:2619:C:O2'	24:BA:2620:C:C5'	2.51	0.58
24:BA:2638:G:C8	24:BA:2775:A:N1	2.71	0.58
24:BA:2787:C:O2	28:BE:61:ARG:CZ	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:386:G:H4'	24:BA:387:U:H5	1.68	0.58
24:BA:414:C:H1'	24:BA:1864:U:O2'	2.03	0.58
24:BA:470:A:C2'	24:BA:471:A:O5'	2.52	0.58
24:BA:502:A:H8	24:BA:502:A:H3'	1.66	0.58
24:BA:502:A:O2'	24:BA:503:A:H5'	2.04	0.58
24:BA:548:A:N6	24:BA:549:G:N2	2.49	0.58
24:BA:602:G:C8	24:BA:602:G:O5'	2.54	0.58
24:BA:714:U:C6	24:BA:714:U:OP2	2.56	0.58
24:BA:723:G:H21	24:BA:724:U:H1'	1.67	0.58
24:BA:85:G:H1'	24:BA:103:A:C2	2.37	0.58
24:BA:882:G:N2	24:BA:895:U:C2	2.71	0.58
24:BA:900:A:H2'	24:BA:901:A:O4'	2.03	0.58
24:BA:966:G:C6	24:BA:967:C:N4	2.71	0.58
24:BA:973:A:H4'	24:BA:974:G:OP1	2.02	0.58
24:BA:973:A:O4'	24:BA:1188:U:C5	2.57	0.58
25:BB:87:G:C2	25:BB:90:C:N3	2.72	0.58
27:BD:136:ILE:CB	27:BD:168:ARG:NH2	2.59	0.58
27:BD:201:HIS:HD2	27:BD:202:LYS:CE	2.15	0.58
27:BD:199:ALA:HA	27:BD:202:LYS:HD3	1.85	0.58
27:BD:29:PRO:CB	27:BD:31:LYS:HZ2	2.15	0.58
27:BD:72:LYS:HZ1	27:BD:99:ASP:CG	2.06	0.58
28:BE:60:ASN:O	28:BE:61:ARG:C	2.42	0.58
29:BF:46:ARG:CA	29:BF:46:ARG:NE	2.66	0.58
30:BG:151:ALA:C	30:BG:152:LEU:HG	2.17	0.58
31:BH:119:GLU:C	31:BH:121:ILE:N	2.55	0.58
31:BH:24:VAL:HG13	31:BH:37:VAL:CG1	2.33	0.58
32:BK:38:LEU:C	32:BK:38:LEU:HD13	2.23	0.58
33:BL:104:VAL:HG13	33:BL:127:ILE:HD12	1.84	0.58
34:BM:33:LEU:C	34:BM:35:ARG:N	2.57	0.58
34:BM:3:THR:O	34:BM:4:TYR:CB	2.49	0.58
34:BM:82:LEU:O	34:BM:83:LYS:O	2.21	0.58
35:BN:68:GLU:OE1	35:BN:104:ARG:HD2	2.04	0.58
36:BO:89:ALA:O	36:BO:125:VAL:HG22	2.02	0.58
24:BA:2484:G:N3	37:BP:124:LYS:NZ	2.52	0.58
37:BP:48:GLU:CA	37:BP:51:ARG:HG3	2.33	0.58
42:BU:21:ARG:NH1	42:BU:21:ARG:HG3	2.13	0.58
43:BV:82:LEU:HD13	43:BV:83:LYS:N	2.17	0.58
44:BW:8:ILE:HD11	44:BW:42:ALA:CB	2.30	0.58
46:BY:29:TYR:CG	46:BY:72:ARG:NH2	2.72	0.58
46:BY:98:MET:HG3	46:BY:133:ILE:CG2	2.24	0.58
24:BA:923:C:H5'	47:BZ:26:TYR:CD1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:111:PRO:HG2	32:BK:112:LYS:H	1.68	0.58
32:BK:68:LEU:HD22	32:BK:107:VAL:HG11	1.86	0.58
3:AD:19:G:C5	24:BA:2112:G:N7	2.72	0.58
24:BA:2134:A:H2'	24:BA:2135:A:H5''	1.85	0.58
24:BA:2118:U:C5	24:BA:2147:G:N7	2.72	0.58
24:BA:2135:A:N7	24:BA:2160:G:C1'	2.66	0.58
26:BC:171:ILE:HG12	26:BC:172:HIS:H	1.67	0.58
2:A1:39:U:O3'	2:A1:40:U:H6	1.86	0.58
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.38	0.58
1:AA:1253:G:H2'	1:AA:1254:C:O4'	2.03	0.58
1:AA:1309:G:C2	1:AA:1310:G:C8	2.90	0.58
1:AA:1253:G:N3	1:AA:1355:G:O2'	2.36	0.58
1:AA:1431:C:O2	1:AA:1432:G:O4'	2.21	0.58
1:AA:42:G:H2'	1:AA:43:C:H6	1.66	0.58
1:AA:534:U:H5''	1:AA:535:A:OP2	2.03	0.58
1:AA:591:U:H2'	1:AA:592:G:C8	2.39	0.58
1:AA:67:C:O2	1:AA:171:A:H2	1.86	0.58
1:AA:697:U:C2'	1:AA:698:G:C8	2.83	0.58
1:AA:666:G:C2	1:AA:741:G:N3	2.71	0.58
1:AA:822:C:H2'	1:AA:823:G:H8	1.67	0.58
1:AA:908:A:N3	1:AA:909:A:C8	2.71	0.58
1:AA:914:A:H2'	1:AA:915:A:C8	2.38	0.58
1:AA:970:C:H4'	1:AA:972:C:C6	2.38	0.58
4:AE:111:ARG:NH1	4:AE:111:ARG:HA	2.08	0.58
4:AE:149:LEU:HD22	4:AE:153:ARG:HG2	1.85	0.58
4:AE:19:HIS:ND1	4:AE:204:ASN:ND2	2.52	0.58
4:AE:219:VAL:CG1	4:AE:222:ILE:HD11	2.32	0.58
4:AE:91:PRO:HG2	4:AE:155:LEU:HB2	1.85	0.58
5:AF:26:LYS:O	5:AF:28:GLN:HG3	2.04	0.58
6:AG:98:GLU:O	6:AG:100:ARG:N	2.37	0.58
7:AH:12:LEU:HG	7:AH:129:ILE:HD11	1.83	0.58
7:AH:63:ARG:HA	7:AH:66:MET:CG	2.33	0.58
7:AH:7:GLU:O	7:AH:34:VAL:HA	2.03	0.58
8:AI:77:ARG:N	8:AI:80:ARG:NH2	2.52	0.58
8:AI:98:LEU:CD2	20:AU:28:GLU:HA	2.33	0.58
7:AH:78:HIS:HB2	10:AK:104:ARG:HD3	1.83	0.58
10:AK:35:ILE:HD13	10:AK:118:VAL:HG21	1.85	0.58
1:AA:878:G:H5'	10:AK:89:PRO:HG2	1.85	0.58
11:AL:23:ASN:HD22	11:AL:23:ASN:C	2.05	0.58
1:AA:539:A:OP1	14:AO:114:LYS:HE2	2.03	0.58
17:AR:34:LEU:CD1	17:AR:35:ARG:N	2.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:49:LEU:CD2	18:AS:73:LEU:HD21	2.32	0.58
19:AT:61:GLU:HA	19:AT:71:PHE:CD2	2.37	0.58
22:AW:65:LYS:O	22:AW:68:LYS:CG	2.52	0.58
49:B2:52:HIS:C	49:B2:54:VAL:H	2.07	0.58
50:B3:23:GLU:O	50:B3:25:TYR:N	2.32	0.58
52:B5:25:LYS:C	52:B5:26:ASN:CG	2.57	0.58
24:BA:458:G:C8	53:B6:38:GLY:O	2.57	0.58
24:BA:1000:A:C8	24:BA:1154:G:N2	2.71	0.58
24:BA:1203:G:C2	24:BA:1241:A:C8	2.91	0.58
24:BA:126:A:H2'	24:BA:127:A:C5'	2.32	0.58
24:BA:1313:U:OP2	24:BA:1313:U:C5	2.57	0.58
24:BA:1453:A:OP2	24:BA:1453:A:O4'	2.21	0.58
24:BA:1444(A):A:C8	24:BA:1460:A:H2'	2.38	0.58
24:BA:1499:C:O2	24:BA:1499:C:H2'	2.02	0.58
24:BA:1566:A:C2	27:BD:215:LEU:CD1	2.77	0.58
24:BA:1759:A:P	24:BA:1759:A:H8	2.26	0.58
24:BA:1798:U:H5'	27:BD:257:LEU:HB2	1.85	0.58
24:BA:1915:U:P	24:BA:1915:U:H3'	2.43	0.58
24:BA:1924:C:C2	24:BA:1925:C:C5	2.92	0.58
24:BA:1955:U:O3'	24:BA:1956:U:H5	1.85	0.58
24:BA:1973:G:C6	24:BA:1974:C:N4	2.71	0.58
24:BA:2029:G:H8	24:BA:2029:G:O5'	1.86	0.58
24:BA:204:A:O2'	24:BA:205:G:P	2.60	0.58
24:BA:2092:U:O5'	32:BK:29:TYR:OH	2.21	0.58
24:BA:2278:A:N1	24:BA:2279:G:C5	2.72	0.58
24:BA:2472:G:OP1	24:BA:2473:U:H5''	2.02	0.58
24:BA:2631:G:N2	28:BE:61:ARG:NH1	2.50	0.58
24:BA:2707:G:O2'	24:BA:2708:G:H5'	2.04	0.58
24:BA:2749:A:C6	24:BA:2750:A:N7	2.71	0.58
24:BA:280:C:H41	24:BA:283:A:N6	2.02	0.58
24:BA:2629:A:N6	24:BA:2895:U:C2	2.72	0.58
24:BA:31:C:HO2'	24:BA:32:C:H5'	1.69	0.58
24:BA:360:G:C2'	24:BA:361:G:C5'	2.81	0.58
24:BA:568:U:H2'	24:BA:570:G:N7	2.19	0.58
24:BA:60:G:O2'	24:BA:61:G:OP1	2.19	0.58
24:BA:689:A:H2'	24:BA:690:G:C5'	2.34	0.58
24:BA:783:A:H3'	27:BD:227:ASN:OD1	2.04	0.58
24:BA:838:C:H2'	24:BA:839:U:H6	1.67	0.58
24:BA:94:G:N2	24:BA:95:G:N3	2.51	0.58
24:BA:975:G:N1	24:BA:976:C:H6	2.01	0.58
25:BB:81:G:C6	25:BB:82:G:N7	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:73:VAL:HG12	27:BD:120:GLY:CA	2.33	0.58
27:BD:152:GLY:O	27:BD:154:LYS:N	2.36	0.58
27:BD:147:LEU:HD23	27:BD:154:LYS:HG3	1.84	0.58
27:BD:159:ALA:CB	27:BD:202:LYS:HZ1	2.16	0.58
27:BD:55:GLY:CA	27:BD:217:ARG:CZ	2.81	0.58
27:BD:7:LYS:HD3	27:BD:9:TYR:CZ	2.38	0.58
33:BL:112:MET:HE1	33:BL:118:THR:CA	2.34	0.58
34:BM:95:PRO:HG2	34:BM:124:ALA:CB	2.33	0.58
34:BM:99:LEU:HD12	34:BM:99:LEU:C	2.23	0.58
35:BN:16:ALA:CB	35:BN:45:GLU:CB	2.81	0.58
35:BN:39:ILE:CA	35:BN:59:LYS:HZ1	2.16	0.58
37:BP:42:ILE:CD1	37:BP:42:ILE:C	2.72	0.58
38:BQ:98:LEU:H	38:BQ:114:VAL:HG22	1.67	0.58
40:BS:27:THR:HB	40:BS:95:ARG:H	1.67	0.58
43:BV:78:GLU:HG2	43:BV:99:ARG:HD2	1.86	0.58
44:BW:26:TYR:CB	44:BW:28:PHE:HZ	2.16	0.58
44:BW:50:LYS:HG3	44:BW:84:ALA:CB	2.32	0.58
45:BX:74:PRO:HB2	45:BX:100:ALA:HB1	1.84	0.58
45:BX:2:ARG:HD2	45:BX:3:VAL:HG23	1.84	0.58
45:BX:37:VAL:HG13	45:BX:39:VAL:CB	2.33	0.58
46:BY:95:PRO:CD	46:BY:130:PRO:HA	2.33	0.58
24:BA:904:C:O4'	46:BY:169:GLU:CD	2.41	0.58
46:BY:44:PHE:HD2	46:BY:48:PHE:HE1	1.52	0.58
47:BZ:37:LEU:CD2	47:BZ:37:LEU:N	2.64	0.58
47:BZ:56:ASP:O	47:BZ:57:PHE:HB2	2.03	0.58
3:AD:9:A:C2	3:AD:46:G:C1'	2.86	0.58
3:AD:59:U:O2	3:AD:59:U:C2'	2.52	0.58
48:B1:3:LYS:O	48:B1:6:GLU:HB2	2.03	0.58
33:BL:98:ARG:CD	33:BL:139:VAL:HB	2.34	0.58
1:AA:1003:G:C2	1:AA:1004:A:O2'	2.53	0.58
1:AA:1244:C:OP2	23:AX:9:ARG:CD	2.49	0.58
1:AA:135:C:H6	1:AA:135:C:O5'	1.86	0.58
1:AA:1350:A:N6	1:AA:1373:G:C2	2.71	0.58
1:AA:1376:U:H2'	1:AA:1377:A:N7	2.19	0.58
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.03	0.58
1:AA:1395:C:H2'	1:AA:1396:A:H8	1.66	0.58
1:AA:7:G:H1'	1:AA:298:A:N9	2.17	0.58
1:AA:372:C:O2'	1:AA:373:A:OP2	2.14	0.58
1:AA:430:A:OP1	6:AG:9:CYS:CB	2.52	0.58
1:AA:523:A:C8	1:AA:523:A:O5'	2.57	0.58
1:AA:619:U:H3	6:AG:135:LEU:HD21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:765:G:HO2'	1:AA:766:A:H5'	1.62	0.58
1:AA:792:A:O2'	1:AA:794:A:N7	2.28	0.58
1:AA:881:G:C6	1:AA:882:C:C4	2.92	0.58
1:AA:965:A:H1'	1:AA:969:A:C8	2.39	0.58
1:AA:951:G:O2'	1:AA:972:C:H5	1.87	0.58
3:AC:28:G:H8	3:AC:28:G:O5'	1.87	0.58
4:AE:72:GLY:O	4:AE:74:LYS:N	2.35	0.58
4:AE:7:VAL:HG23	4:AE:8:LYS:N	2.13	0.58
5:AF:22:TRP:HH2	5:AF:33:LEU:N	2.01	0.58
5:AF:35:GLU:CA	5:AF:38:ARG:HG2	2.34	0.58
5:AF:38:ARG:HG3	5:AF:94:LEU:HD21	1.86	0.58
6:AG:166:LYS:CE	6:AG:178:VAL:HG12	2.31	0.58
9:AJ:100:ALA:HA	9:AJ:103:TRP:HE3	1.68	0.58
9:AJ:73:MET:HE2	9:AJ:146:GLU:HB2	1.85	0.58
9:AJ:34:GLY:O	9:AJ:36:LYS:N	2.37	0.58
9:AJ:37:ASN:CG	9:AJ:38:LEU:H	2.07	0.58
10:AK:36:LEU:CA	10:AK:39:LEU:HB2	2.32	0.58
10:AK:82:HIS:O	10:AK:137:VAL:CG1	2.52	0.58
11:AL:34:ASN:OD1	11:AL:43:ALA:CB	2.51	0.58
11:AL:45:ALA:HB3	11:AL:74:ILE:HG22	1.84	0.58
12:AM:60:ARG:CA	12:AM:60:ARG:HH11	2.15	0.58
12:AM:39:PRO:CA	12:AM:70:ARG:HH11	2.17	0.58
16:AQ:12:ARG:O	16:AQ:13:THR:C	2.41	0.58
1:AA:375:U:C4'	18:AS:17:TYR:HE2	2.16	0.58
19:AT:98:LEU:HD13	19:AT:102:GLY:O	2.04	0.58
21:AV:74:PHE:HD1	21:AV:74:PHE:N	2.00	0.58
49:B2:10:LYS:HG3	49:B2:31:LEU:HD21	1.85	0.58
51:B4:19:ARG:NH1	51:B4:20:ARG:HH11	2.01	0.58
52:B5:27:LYS:HE3	52:B5:29:ASN:ND2	2.18	0.58
52:B5:46:HIS:CG	52:B5:47:THR:H	2.21	0.58
53:B6:25:PRO:HD3	53:B6:28:ARG:HH21	1.69	0.58
24:BA:1140:C:H5'	34:BM:65:LYS:NZ	2.19	0.58
24:BA:1202:C:C2	24:BA:1203:G:O2'	2.52	0.58
24:BA:1341:U:C2'	24:BA:1342:A:OP1	2.51	0.58
24:BA:1459:G:O6	24:BA:1461:G:N1	2.36	0.58
24:BA:1576:U:H2'	24:BA:1577:C:C6	2.39	0.58
24:BA:1629:U:H1'	24:BA:2699:C:OP1	2.04	0.58
24:BA:1703:G:C2	24:BA:1704:G:N9	2.72	0.58
24:BA:1966:A:O2'	24:BA:1967:C:OP2	2.20	0.58
24:BA:2018:G:H8	24:BA:2018:G:OP2	1.87	0.58
24:BA:806:C:O2'	24:BA:2445:G:O4'	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2519:U:H1'	24:BA:2542:A:N1	2.18	0.58
24:BA:2572:A:H5''	24:BA:2573:C:OP1	2.04	0.58
24:BA:1781:C:O2'	24:BA:2609:U:O4	2.16	0.58
24:BA:294:A:C2	24:BA:346:A:C2	2.91	0.58
24:BA:463:G:N2	24:BA:466:A:OP2	2.26	0.58
24:BA:475:U:N3	24:BA:479:A:N6	2.50	0.58
24:BA:602:G:H2'	24:BA:655:A:N1	2.18	0.58
24:BA:612:G:C2'	24:BA:615:G:H2'	2.34	0.58
24:BA:641:C:H5	24:BA:642:G:N3	2.02	0.58
24:BA:671:C:C2	24:BA:672:C:C5	2.92	0.58
24:BA:689:A:H2'	24:BA:690:G:O4'	2.02	0.58
24:BA:704:G:O2'	24:BA:705:A:OP2	2.16	0.58
24:BA:783:A:N6	24:BA:785:G:C8	2.72	0.58
24:BA:920:G:C2	24:BA:921:G:C8	2.91	0.58
24:BA:961:C:C4	24:BA:2031:A:C2	2.91	0.58
24:BA:969:U:C2	24:BA:970:C:C6	2.92	0.58
25:BB:52:A:C2'	25:BB:53:A:H5'	2.33	0.58
25:BB:83:G:C2	25:BB:84:C:C6	2.91	0.58
27:BD:143:HIS:C	27:BD:145:VAL:N	2.54	0.58
27:BD:223:GLY:O	27:BD:225:ALA:N	2.36	0.58
29:BF:116:ASP:HA	29:BF:119:ARG:CG	2.33	0.58
29:BF:192:LEU:HD11	29:BF:194:MET:CG	2.26	0.58
29:BF:70:THR:O	29:BF:72:ARG:N	2.36	0.58
24:BA:1255:U:N3	29:BF:72:ARG:O	2.37	0.58
30:BG:56:ALA:CB	30:BG:68:PRO:HG2	2.33	0.58
31:BH:11:VAL:HG13	31:BH:15:VAL:HG12	1.85	0.58
31:BH:26:VAL:CB	31:BH:75:ALA:HB1	2.33	0.58
31:BH:76:VAL:CG2	31:BH:77:LYS:N	2.66	0.58
24:BA:662:G:H5'	36:BO:16:ARG:HA	1.86	0.58
37:BP:16:ARG:O	37:BP:17:LEU:HG	2.04	0.58
37:BP:75:THR:CG2	37:BP:77:LYS:H	2.14	0.58
24:BA:955:C:H5''	37:BP:87:LYS:HE2	1.86	0.58
38:BQ:100:LEU:CD1	38:BQ:101:ALA:H	2.16	0.58
38:BQ:94:TYR:O	38:BQ:117:VAL:HG12	2.02	0.58
38:BQ:11:ASN:CG	38:BQ:12:ARG:H	2.07	0.58
39:BR:64:GLU:C	39:BR:66:ALA:N	2.49	0.58
40:BS:37:GLY:HA3	40:BS:43:GLN:HA	1.85	0.58
42:BU:1:MET:O	42:BU:3:ALA:N	2.36	0.58
41:BT:88:ILE:CG2	42:BU:55:ALA:HB3	2.33	0.58
42:BU:67:GLY:CA	42:BU:94:LEU:HD23	2.33	0.58
43:BV:22:ASP:HA	43:BV:75:TYR:CZ	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:40:ASN:O	43:BV:41:LYS:HB2	2.03	0.58
44:BW:26:TYR:HB3	44:BW:28:PHE:CZ	2.39	0.58
45:BX:84:ARG:HG2	45:BX:86:ARG:N	2.17	0.58
45:BX:42:VAL:HG22	45:BX:61:ILE:HG21	1.84	0.58
1:AA:1031:G:H2'	1:AA:1032:A:C8	2.37	0.58
1:AA:1313:U:O4	21:AV:4:SER:CB	2.51	0.58
1:AA:1430:C:C2'	1:AA:1431:C:O5'	2.50	0.58
1:AA:1465:C:O2	1:AA:1465:C:C2'	2.51	0.58
1:AA:148:G:H2'	1:AA:149:A:H8	1.68	0.58
1:AA:1490:C:C2'	1:AA:1491:G:C5'	2.81	0.58
1:AA:246:A:O2'	1:AA:247:G:P	2.61	0.58
1:AA:259:G:H5''	22:AW:83:ARG:NH2	2.19	0.58
1:AA:263:A:C3'	1:AA:264:U:H5''	2.33	0.58
1:AA:322:C:O2'	22:AW:23:ARG:HB2	2.04	0.58
1:AA:358:U:H2'	1:AA:359:U:C6	2.39	0.58
1:AA:611:A:H2'	1:AA:612:C:H6	1.68	0.58
1:AA:656:C:O2'	1:AA:657:G:H5'	2.03	0.58
1:AA:812:C:O4'	1:AA:813:U:C5	2.56	0.58
1:AA:986:A:H1'	21:AV:55:LYS:HA	1.85	0.58
4:AE:33:TYR:CG	4:AE:43:ASP:HB2	2.38	0.58
4:AE:78:GLN:O	4:AE:94:ASN:ND2	2.37	0.58
4:AE:69:LEU:HD23	4:AE:91:PRO:HB3	1.86	0.58
5:AF:71:ALA:HB2	5:AF:106:VAL:CG2	2.34	0.58
5:AF:156:ARG:H	5:AF:163:ALA:HB1	1.67	0.58
6:AG:118:ARG:HG3	6:AG:136:PRO:HB2	1.84	0.58
6:AG:19:LEU:O	6:AG:26:CYS:SG	2.62	0.58
6:AG:24:GLU:CD	6:AG:25:ARG:N	2.56	0.58
7:AH:15:ARG:HG3	7:AH:15:ARG:HH11	1.69	0.58
7:AH:84:PHE:CD1	7:AH:134:ALA:HA	2.39	0.58
9:AJ:76:ARG:HD3	9:AJ:89:MET:HE1	1.86	0.58
10:AK:126:LYS:HZ1	10:AK:127:LEU:HD23	1.69	0.58
10:AK:51:VAL:CG1	10:AK:52:ASP:N	2.66	0.58
10:AK:67:PRO:HD2	10:AK:76:PRO:HB3	1.85	0.58
11:AL:37:PHE:HA	11:AL:40:LEU:HD12	1.84	0.58
13:AN:32:ILE:CG2	13:AN:40:ILE:HD11	2.22	0.58
14:AO:84:LEU:O	14:AO:100:ILE:HA	2.04	0.58
15:AP:14:ARG:O	15:AP:45:VAL:HG23	2.04	0.58
1:AA:1202:G:H1'	16:AQ:29:ARG:NE	2.17	0.58
20:AU:58:LEU:HD22	20:AU:62:GLU:CG	2.32	0.58
1:AA:1320:C:O2'	21:AV:73:GLU:HB3	2.04	0.58
48:B1:20:VAL:CG2	48:B1:24:LYS:HE3	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:27:LEU:HG	48:B1:30:LEU:HD11	1.84	0.58
49:B2:3:ARG:CB	49:B2:3:ARG:HH11	2.14	0.58
50:B3:8:LYS:CG	50:B3:9:LEU:H	2.09	0.58
51:B4:44:THR:O	51:B4:52:TYR:OH	2.18	0.58
52:B5:41:PRO:HG2	52:B5:43:CYS:HB2	1.86	0.58
53:B6:34:ARG:HH22	53:B6:42:LEU:HG	1.67	0.58
24:BA:242:G:C8	54:B7:4:MET:CG	2.77	0.58
55:B8:28:GLU:O	55:B8:29:ASN:HB2	2.03	0.58
24:BA:1005:C:H1'	24:BA:1012:U:O2	2.04	0.58
24:BA:1021:A:C2'	24:BA:1022:G:OP1	2.49	0.58
24:BA:1200:C:C2	24:BA:1201:C:C5	2.91	0.58
24:BA:152:G:H22	24:BA:175:G:C1'	2.13	0.58
24:BA:1572:A:O2'	24:BA:1573:G:OP1	2.16	0.58
24:BA:1620:G:C5	24:BA:1621:U:C4	2.92	0.58
24:BA:1698:A:O2'	24:BA:1699:G:C3'	2.51	0.58
24:BA:1992:G:C6	24:BA:1997:G:C4	2.91	0.58
24:BA:2278:A:N7	47:BZ:14:ARG:CG	2.66	0.58
24:BA:2463:C:O2'	24:BA:2464:C:H5'	2.04	0.58
24:BA:2466:C:N4	24:BA:2485:G:C6	2.71	0.58
24:BA:2580:U:OP2	24:BA:2580:U:H6	1.87	0.58
24:BA:2603:G:H2'	24:BA:2604:U:O4'	2.03	0.58
24:BA:2657:A:C2	24:BA:2665:A:C1'	2.79	0.58
24:BA:2839:G:C2	24:BA:2880:C:C4	2.91	0.58
24:BA:38:A:H2'	24:BA:39:C:H6	1.68	0.58
24:BA:457:A:C2	24:BA:470:A:H5'	2.39	0.58
24:BA:515:A:C5'	41:BT:32:PHE:CZ	2.87	0.58
24:BA:558:G:P	34:BM:111:PRO:HG2	2.44	0.58
24:BA:637:A:H4'	24:BA:638:G:O4'	2.03	0.58
24:BA:650:C:OP1	54:B7:21:LYS:NZ	2.32	0.58
24:BA:673:C:C5'	29:BF:82:ILE:HD12	2.34	0.58
24:BA:771:G:H2'	24:BA:772:C:C6	2.38	0.58
24:BA:196:A:C6	24:BA:828:U:H5''	2.38	0.58
24:BA:909:A:N3	24:BA:912:C:C6	2.71	0.58
24:BA:942:G:O3'	36:BO:32:THR:HG22	2.02	0.58
25:BB:105:G:O2'	25:BB:106:G:H5'	2.02	0.58
27:BD:169:GLU:O	27:BD:172:TYR:O	2.22	0.58
27:BD:206:LEU:O	27:BD:206:LEU:CD2	2.50	0.58
24:BA:692:C:H4'	27:BD:42:GLY:HA3	1.85	0.58
29:BF:103:LYS:C	29:BF:106:ARG:HG2	2.24	0.58
30:BG:119:GLY:HA3	30:BG:180:PHE:CD1	2.39	0.58
30:BG:54:GLU:O	30:BG:57:ALA:CB	2.45	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:124:GLU:HB2	31:BH:132:ARG:NE	2.19	0.58
33:BL:106:GLU:HA	33:BL:109:LYS:HG3	1.86	0.58
33:BL:10:LEU:HD23	33:BL:10:LEU:N	2.17	0.58
34:BM:17:ASP:OD1	34:BM:18:ALA:C	2.42	0.58
34:BM:62:VAL:C	34:BM:64:GLY:H	2.07	0.58
34:BM:97:ARG:O	34:BM:98:VAL:C	2.41	0.58
35:BN:106:LEU:O	35:BN:109:LYS:CA	2.51	0.58
36:BO:107:LYS:CE	36:BO:110:TYR:HB3	2.33	0.58
36:BO:131:SER:OG	36:BO:134:ALA:HB2	2.04	0.58
36:BO:126:VAL:HB	36:BO:146:VAL:HG23	1.86	0.58
37:BP:64:ILE:O	37:BP:65:PHE:HD2	1.87	0.58
39:BR:8:GLU:O	39:BR:10:ARG:N	2.36	0.58
42:BU:79:VAL:HB	42:BU:81:TYR:HD1	1.68	0.58
44:BW:31:HIS:CE1	44:BW:33:LYS:HD2	2.39	0.58
45:BX:109:GLU:O	45:BX:110:GLU:C	2.42	0.58
45:BX:70:SER:OG	45:BX:78:ALA:HA	2.03	0.58
46:BY:1:MET:HE3	46:BY:3:TYR:CD2	2.38	0.58
46:BY:44:PHE:CD2	46:BY:48:PHE:CE1	2.91	0.58
46:BY:76:LEU:HA	46:BY:83:PRO:HA	1.85	0.58
32:BK:111:PRO:HD2	32:BK:112:LYS:HZ3	1.67	0.58
26:BC:161:ILE:HD13	26:BC:173:ALA:HB1	1.85	0.58
1:AA:1026:G:O6	1:AA:1036:G:C2	2.57	0.58
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.39	0.58
1:AA:1049:U:C1'	1:AA:1201:A:O4'	2.52	0.58
1:AA:1157:A:O4'	1:AA:1158:C:N3	2.37	0.58
1:AA:1193:G:C6	1:AA:1194:U:C4	2.91	0.58
1:AA:19:C:H1'	1:AA:864:A:N3	2.18	0.58
1:AA:230:G:N2	1:AA:231:G:N3	2.51	0.58
1:AA:241:C:O2'	1:AA:242:C:H5'	2.04	0.58
1:AA:123:C:OP1	1:AA:312:C:H5'	2.03	0.58
1:AA:375:U:C4'	18:AS:17:TYR:CE2	2.87	0.58
1:AA:391:G:C6	1:AA:392:G:C5	2.92	0.58
1:AA:428:G:O2'	1:AA:429:U:P	2.62	0.58
1:AA:448:A:O2'	1:AA:449:C:H5'	2.04	0.58
1:AA:676:A:H4'	13:AN:114:VAL:O	2.03	0.58
1:AA:689:C:C4	1:AA:690:G:N7	2.72	0.58
1:AA:719:C:H3'	1:AA:720:C:C5	2.39	0.58
1:AA:891:U:H5	1:AA:906:G:C2	2.21	0.58
1:AA:894:G:H2'	1:AA:895:G:H8	1.68	0.58
1:AA:934:C:O2	1:AA:937:A:N6	2.36	0.58
1:AA:978:A:N1	1:AA:1318:A:N6	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:136:VAL:N	4:AE:139:LYS:NZ	2.51	0.58
4:AE:118:LEU:HD11	4:AE:141:GLU:CD	2.23	0.58
4:AE:150:SER:HA	4:AE:153:ARG:CG	2.34	0.58
4:AE:150:SER:O	4:AE:151:GLY:O	2.22	0.58
4:AE:80:ILE:HG23	4:AE:212:GLN:HE21	1.68	0.58
7:AH:34:VAL:CG2	7:AH:62:ALA:HB1	2.32	0.58
8:AI:30:LEU:HB3	8:AI:35:ALA:CB	2.33	0.58
8:AI:67:MET:SD	8:AI:67:MET:O	2.62	0.58
9:AJ:89:MET:SD	9:AJ:89:MET:N	2.76	0.58
11:AL:49:PRO:CG	11:AL:81:ILE:HB	2.34	0.58
13:AN:20:TYR:CZ	13:AN:83:ILE:HG12	2.39	0.58
15:AP:13:LYS:HA	15:AP:44:ARG:NH2	2.18	0.58
15:AP:81:LEU:CD2	15:AP:82:MET:HG2	2.30	0.58
16:AQ:14:PRO:O	16:AQ:15:LYS:C	2.41	0.58
17:AR:8:LYS:HE2	17:AR:12:ILE:HD11	1.86	0.58
17:AR:79:ARG:CG	17:AR:82:ILE:HD12	2.33	0.58
19:AT:10:VAL:CG2	19:AT:55:ASP:HB2	2.33	0.58
21:AV:15:LEU:HD12	21:AV:44:MET:HE1	1.86	0.58
21:AV:40:ILE:CG1	21:AV:71:LEU:HD23	2.34	0.58
21:AV:50:ALA:HB1	21:AV:57:HIS:HB3	1.85	0.58
22:AW:54:LYS:H	22:AW:100:ILE:HD11	1.69	0.58
22:AW:56:MET:SD	22:AW:84:LEU:CD1	2.92	0.58
1:AA:1268:A:H4'	23:AX:20:LYS:HB2	1.86	0.58
48:B1:26:GLU:O	48:B1:29:GLU:HB2	2.03	0.58
48:B1:32:PHE:CD1	48:B1:32:PHE:N	2.72	0.58
24:BA:95:G:H4'	48:B1:39:LEU:C	2.24	0.58
48:B1:24:LYS:HG2	48:B1:52:ILE:HG21	1.85	0.58
50:B3:64:GLY:O	50:B3:67:TYR:N	2.37	0.58
53:B6:10:ARG:C	53:B6:14:LYS:HG3	2.24	0.58
54:B7:15:LYS:O	54:B7:22:VAL:CA	2.50	0.58
36:BO:49:ARG:HG3	54:B7:52:LYS:HG3	1.85	0.58
24:BA:1343:G:N2	24:BA:1405:U:C1'	2.66	0.58
24:BA:1366:A:C2	24:BA:1367:A:C4	2.91	0.58
24:BA:1531:C:O2	24:BA:1532:C:C5	2.56	0.58
24:BA:1609:A:C8	24:BA:1616:A:C1'	2.86	0.58
24:BA:1628:G:H2'	24:BA:1629:U:C6	2.39	0.58
24:BA:1695:G:C3'	24:BA:1695:G:N3	2.62	0.58
24:BA:1919:A:C2'	24:BA:1920:C:H5'	2.33	0.58
24:BA:1925:C:C2	24:BA:1929:G:O6	2.57	0.58
24:BA:2055:C:H4'	24:BA:2056:G:O5'	2.04	0.58
24:BA:2093:G:H5'	32:BK:25:TYR:CG	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2263:C:C2'	24:BA:2264:C:H5'	2.33	0.58
24:BA:2311:A:C3'	24:BA:2312:U:C5	2.80	0.58
24:BA:239:U:O2'	24:BA:240:G:C5'	2.51	0.58
24:BA:2423:U:C2'	24:BA:2423:U:O2	2.51	0.58
24:BA:2647:U:H2'	24:BA:2648:C:C6	2.37	0.58
24:BA:2675:A:N6	24:BA:2732:G:H1	2.00	0.58
24:BA:2687:U:O2	24:BA:2687:U:C2'	2.51	0.58
24:BA:2719:G:O5'	24:BA:2719:G:H8	1.87	0.58
24:BA:304:G:H2'	24:BA:305:U:H6	1.68	0.58
24:BA:361:G:C2'	24:BA:362:U:O4'	2.52	0.58
24:BA:429:A:H2'	24:BA:430:G:N7	2.18	0.58
24:BA:650:C:O2	24:BA:650:C:H2'	2.03	0.58
24:BA:723:G:H2'	24:BA:724:U:H6	1.69	0.58
24:BA:71:A:O2'	24:BA:72:U:C5'	2.52	0.58
24:BA:763:G:N3	24:BA:765:G:H1'	2.19	0.58
24:BA:684:G:N2	24:BA:794:G:C2	2.72	0.58
25:BB:68:C:C3'	25:BB:69:G:H8	2.16	0.58
27:BD:16:MET:O	27:BD:19:ALA:HB3	2.03	0.58
27:BD:171:ASP:O	27:BD:186:HIS:HB3	2.04	0.58
24:BA:1791:A:OP1	27:BD:213:ARG:HD3	2.04	0.58
24:BA:1825:A:O2'	27:BD:252:TRP:CH2	2.55	0.58
27:BD:258:LYS:HA	27:BD:261:LYS:CD	2.34	0.58
27:BD:29:PRO:HG3	27:BD:82:ILE:C	2.24	0.58
27:BD:92:ILE:HD11	27:BD:104:TYR:CD1	2.39	0.58
28:BE:117:MET:SD	28:BE:136:ARG:CG	2.78	0.58
28:BE:51:PHE:CE1	28:BE:75:VAL:HG22	2.39	0.58
28:BE:8:LYS:HD2	40:BS:3:ARG:HA	1.85	0.58
29:BF:192:LEU:HD22	29:BF:193:VAL:H	1.68	0.58
29:BF:75:HIS:NE2	29:BF:80:ALA:HB3	2.19	0.58
30:BG:125:PHE:CD2	30:BG:129:GLY:N	2.72	0.58
30:BG:162:THR:O	30:BG:164:GLU:N	2.31	0.58
30:BG:181:ARG:N	30:BG:181:ARG:CD	2.58	0.58
30:BG:26:GLN:HG2	30:BG:29:TRP:CE3	2.38	0.58
30:BG:30:GLU:HG2	30:BG:33:ARG:CD	2.34	0.58
30:BG:44:GLY:O	30:BG:47:LYS:N	2.36	0.58
31:BH:103:LEU:CB	31:BH:105:LEU:HD11	2.34	0.58
31:BH:76:VAL:CG2	31:BH:77:LYS:H	2.16	0.58
34:BM:134:ARG:O	34:BM:137:LYS:HE3	2.02	0.58
35:BN:16:ALA:HB2	35:BN:46:ALA:O	2.04	0.58
36:BO:45:LEU:HD22	54:B7:59:LYS:CD	2.32	0.58
37:BP:116:GLU:HA	37:BP:119:ARG:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:9:TYR:N	37:BP:9:TYR:CD2	2.71	0.58
39:BR:13:ARG:NH1	39:BR:94:TYR:OH	2.37	0.58
40:BS:68:TYR:CE1	40:BS:69:GLY:O	2.57	0.58
42:BU:1:MET:O	42:BU:2:PHE:C	2.42	0.58
44:BW:18:TYR:OH	44:BW:96:ILE:HG12	2.03	0.58
44:BW:36:LYS:HE3	44:BW:56:THR:HG23	1.84	0.58
45:BX:12:THR:HA	45:BX:73:ARG:NE	2.19	0.58
45:BX:45:VAL:HA	45:BX:57:GLN:HG2	1.86	0.58
45:BX:72:VAL:O	45:BX:73:ARG:HG3	2.03	0.58
32:BK:58:LEU:HA	32:BK:61:ARG:CG	2.33	0.58
24:BA:2178:C:O2'	26:BC:168:THR:HB	2.04	0.58
32:BK:133:HIS:O	32:BK:136:VAL:HG22	2.03	0.58
19:AT:99:SER:C	19:AT:100:LYS:HG2	2.24	0.58
1:AA:1089:G:H2'	1:AA:1090:U:C5'	2.32	0.58
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.39	0.58
1:AA:1180:A:OP1	11:AL:102:LEU:CD1	2.48	0.58
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.68	0.58
1:AA:1333:A:H2'	1:AA:1334:G:C8	2.39	0.58
1:AA:243:A:O2'	1:AA:244:U:OP2	2.16	0.58
1:AA:296:U:H1'	1:AA:302:G:H22	1.63	0.58
1:AA:413:G:H22	1:AA:428:G:C2'	2.17	0.58
1:AA:486:U:H2'	1:AA:487:A:C5'	2.34	0.58
1:AA:684:A:H1'	13:AN:39:PRO:HD2	1.86	0.58
1:AA:750:G:H1'	17:AR:23:GLY:N	2.18	0.58
1:AA:939:G:C2	1:AA:940:C:C4	2.91	0.58
3:AB:55:U:O2	3:AB:55:U:C2'	2.50	0.58
3:AB:75:C:O2	3:AB:75:C:H2'	2.04	0.58
3:AC:21:A:N1	3:AC:48:C:C2	2.71	0.58
3:AC:73:A:C2'	3:AC:74:C:OP1	2.52	0.58
3:AD:76:A:H2	24:BA:2432:A:P	2.27	0.58
4:AE:189:ASP:O	4:AE:191:ASP:N	2.36	0.58
4:AE:87:ARG:NH2	4:AE:219:VAL:HG11	2.19	0.58
4:AE:60:ASP:C	4:AE:64:ARG:NH1	2.57	0.58
4:AE:67:THR:HB	4:AE:90:MET:SD	2.43	0.58
4:AE:82:ARG:HA	4:AE:92:TYR:CZ	2.39	0.58
6:AG:13:ARG:HH21	6:AG:40:PRO:CA	2.14	0.58
6:AG:193:ASP:OD2	6:AG:194:LEU:HD21	2.04	0.58
6:AG:78:LEU:O	6:AG:79:PHE:C	2.43	0.58
7:AH:28:PHE:HE1	7:AH:49:PRO:C	2.06	0.58
9:AJ:133:GLY:O	9:AJ:137:LYS:HG3	2.03	0.58
11:AL:26:VAL:HG22	11:AL:61:ALA:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:49:PRO:CD	11:AL:78:LYS:HG2	2.29	0.58
14:AO:119:LYS:HB3	14:AO:120:TYR:HD1	1.69	0.58
15:AP:20:THR:HA	15:AP:25:ILE:HB	1.84	0.58
17:AR:75:PRO:O	17:AR:79:ARG:N	2.31	0.58
20:AU:26:LEU:HD22	20:AU:39:VAL:HG22	1.85	0.58
22:AW:49:ALA:O	22:AW:52:ALA:HB3	2.04	0.58
22:AW:64:ASP:O	22:AW:65:LYS:C	2.41	0.58
22:AW:72:LEU:HD22	22:AW:76:ALA:CB	2.34	0.58
48:B1:59:LEU:HD11	48:B1:63:ARG:HD3	1.86	0.58
50:B3:11:PRO:O	50:B3:12:ALA:HB2	2.03	0.58
24:BA:1029:A:O2'	24:BA:1030:G:H5'	2.04	0.58
24:BA:105:C:C2	24:BA:106:C:C5	2.92	0.58
24:BA:1062:G:H5''	24:BA:1070:A:H5'	1.86	0.58
24:BA:114:U:H2'	24:BA:115:C:H6	1.67	0.58
24:BA:1394:U:H5''	24:BA:1604:C:OP1	2.04	0.58
24:BA:1439:A:N7	24:BA:1440:G:C4	2.71	0.58
24:BA:1467:C:N4	24:BA:1468:C:N4	2.52	0.58
24:BA:147:U:H2'	24:BA:148:C:C6	2.39	0.58
24:BA:1491:G:H2'	24:BA:1492:G:C4'	2.26	0.58
24:BA:1658:C:OP1	28:BE:134:ILE:CB	2.51	0.58
24:BA:1804:C:P	27:BD:257:LEU:HD22	2.44	0.58
24:BA:1950:G:C5	24:BA:1951:U:C5	2.92	0.58
24:BA:1956:U:C2	24:BA:1957:C:C5	2.92	0.58
24:BA:2029:G:H1	24:BA:2033:A:P	2.25	0.58
24:BA:2291:U:C2	24:BA:2292:C:C5	2.92	0.58
24:BA:249:C:H5'	24:BA:2394:C:O2'	2.04	0.58
24:BA:2463:C:H2'	24:BA:2464:C:H5'	1.84	0.58
24:BA:2509:G:N2	24:BA:2510:C:H1'	2.18	0.58
24:BA:2659:G:C2'	24:BA:2661:G:OP2	2.52	0.58
24:BA:2785:C:H2'	24:BA:2786:U:C6	2.38	0.58
24:BA:344:G:H2'	24:BA:345:A:O4'	2.04	0.58
24:BA:374:A:N6	24:BA:401:A:C1'	2.67	0.58
24:BA:223:A:C5	24:BA:408:G:C1'	2.87	0.58
24:BA:500:G:H2'	24:BA:501:A:C5'	2.33	0.58
24:BA:448:U:O4	24:BA:583:G:N3	2.37	0.58
24:BA:610:C:H2'	24:BA:611:C:C6	2.38	0.58
24:BA:650:C:P	54:B7:21:LYS:NZ	2.77	0.58
24:BA:666:G:OP2	24:BA:666:G:H3'	2.03	0.58
24:BA:740:U:O2'	24:BA:741:G:O5'	2.21	0.58
24:BA:674:G:C2	24:BA:807:U:O4	2.57	0.58
24:BA:586:A:N6	24:BA:810:U:H5'	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:880:G:N3	24:BA:881:G:H1'	2.18	0.58
27:BD:12:SER:HB2	27:BD:14:ARG:HH21	1.68	0.58
27:BD:23:GLU:C	27:BD:23:GLU:CD	2.62	0.58
27:BD:59:LYS:CD	27:BD:59:LYS:C	2.72	0.58
27:BD:78:LYS:HA	27:BD:115:GLN:O	2.04	0.58
28:BE:179:GLU:C	28:BE:181:LEU:HG	2.24	0.58
29:BF:203:GLN:N	29:BF:203:GLN:NE2	2.52	0.58
30:BG:138:GLN:C	30:BG:140:ILE:H	2.05	0.58
31:BH:74:ASN:O	31:BH:75:ALA:C	2.40	0.58
32:BK:5:LEU:HG	32:BK:17:GLN:O	2.04	0.58
24:BA:1096:A:H62	33:BL:30:HIS:CB	2.15	0.58
34:BM:107:LEU:HD21	34:BM:113:GLY:CA	2.31	0.58
34:BM:74:ARG:HD2	34:BM:82:LEU:HD13	1.86	0.58
36:BO:46:LYS:CE	36:BO:46:LYS:N	2.64	0.58
36:BO:47:ASP:HB3	36:BO:48:PRO:HD3	1.86	0.58
36:BO:58:THR:HG22	36:BO:60:MET:H	1.69	0.58
37:BP:51:ARG:NH2	37:BP:63:LYS:HZ1	2.02	0.58
37:BP:68:ILE:HG21	37:BP:95:ALA:CB	2.34	0.58
39:BR:103:GLU:HA	39:BR:106:ARG:HB3	1.85	0.58
41:BT:87:GLY:C	41:BT:89:GLU:H	2.06	0.58
41:BT:40:PHE:CD2	42:BU:78:LYS:HE2	2.39	0.58
45:BX:14:LEU:HD22	45:BX:20:TYR:H	1.68	0.58
45:BX:8:LYS:HA	45:BX:28:LYS:CD	2.31	0.58
46:BY:167:PRO:O	46:BY:168:GLU:HB3	2.03	0.58
24:BA:904:C:O4'	46:BY:169:GLU:OE2	2.21	0.58
32:BK:132:PRO:HD3	32:BK:138:ILE:HG22	1.84	0.58
3:AD:18:G:N3	3:AD:58:A:O4'	2.35	0.58
3:AD:21:A:C2'	3:AD:22:G:O4'	2.51	0.58
24:BA:2127:G:C5'	26:BC:36:LYS:HG2	2.33	0.58
26:BC:104:LEU:HD13	26:BC:130:ILE:CD1	2.34	0.58
24:BA:1486:A:H2'	24:BA:1487:G:O4'	2.04	0.58
24:BA:182:A:OP2	24:BA:182:A:H8	1.87	0.58
33:BL:128:ALA:HB1	33:BL:138:VAL:HG11	1.85	0.58
1:AA:1067:A:O2'	1:AA:1068:G:P	2.62	0.58
1:AA:1134:G:C6	1:AA:1135:U:H1'	2.39	0.58
1:AA:1394:A:O2'	1:AA:1395:C:P	2.61	0.58
1:AA:191:G:H1'	22:AW:105:SER:CA	2.27	0.58
1:AA:429:U:H5'	1:AA:430:A:OP1	2.03	0.58
1:AA:571:U:O4	1:AA:865:A:N1	2.37	0.58
1:AA:859:A:H2'	1:AA:860:A:C5'	2.34	0.58
1:AA:954:G:H2'	1:AA:955:U:O4'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:8:U:H2'	3:AB:22:G:O6	2.04	0.58
4:AE:61:LEU:N	4:AE:64:ARG:HH11	2.01	0.58
7:AH:105:VAL:O	7:AH:109:ILE:HG22	2.04	0.58
7:AH:76:ILE:HG22	7:AH:78:HIS:HD2	1.69	0.58
10:AK:38:ILE:CD1	10:AK:118:VAL:HB	2.34	0.58
10:AK:17:THR:HB	10:AK:18:ARG:CZ	2.33	0.58
1:AA:755:G:N3	10:AK:1:MET:HE1	2.18	0.58
10:AK:5:PRO:CA	10:AK:8:ASP:HB3	2.34	0.58
10:AK:5:PRO:C	10:AK:8:ASP:HB3	2.24	0.58
13:AN:111:ASP:OD2	13:AN:113:PRO:CD	2.46	0.58
13:AN:54:ARG:C	13:AN:56:GLY:H	2.07	0.58
5:AF:29:TYR:OH	16:AQ:54:PRO:HB2	2.02	0.58
17:AR:26:GLU:HA	17:AR:26:GLU:OE2	2.04	0.58
18:AS:27:LYS:HB2	18:AS:27:LYS:HZ2	1.69	0.58
19:AT:34:LYS:HD2	19:AT:35:VAL:H	1.69	0.58
1:AA:189:U:C2	19:AT:63:ARG:NH2	2.72	0.58
21:AV:21:GLU:O	21:AV:24:ALA:CB	2.52	0.58
21:AV:64:GLU:O	21:AV:67:VAL:HG23	2.03	0.58
1:AA:186(A):C:H1'	22:AW:104:LEU:HD21	1.84	0.58
49:B2:5:LYS:HZ2	49:B2:59:VAL:CG2	2.17	0.58
49:B2:5:LYS:HE2	49:B2:57:GLU:OE1	2.04	0.58
50:B3:10:VAL:O	50:B3:40:HIS:HD2	1.87	0.58
54:B7:29:LYS:NZ	54:B7:36:LYS:NZ	2.52	0.58
24:BA:1071:G:N2	24:BA:1090:U:C5	2.71	0.58
24:BA:1104:C:H2'	24:BA:1105:U:C6	2.38	0.58
24:BA:1199:U:C2	24:BA:1200:C:C5	2.92	0.58
24:BA:1210:A:H1'	24:BA:1212:G:H21	1.69	0.58
24:BA:1223:C:O2	24:BA:1225:C:H5''	2.04	0.58
24:BA:1491:G:H3'	24:BA:1492:G:H4'	1.84	0.58
24:BA:1531:C:C2	24:BA:1532:C:H5	2.22	0.58
24:BA:1630(A):C:O2	24:BA:1633:G:O6	2.22	0.58
24:BA:1656:C:OP1	28:BE:117:MET:HB2	2.04	0.58
24:BA:1670:C:C6	24:BA:1671:U:C6	2.92	0.58
24:BA:1759:A:H5'	24:BA:2715:C:C1'	2.33	0.58
24:BA:1773:A:C5	24:BA:1774:C:O2	2.57	0.58
24:BA:1838:C:C2'	24:BA:1838:C:O2	2.52	0.58
24:BA:2000:G:C2	24:BA:2001:A:N7	2.72	0.58
24:BA:2443:C:H2'	24:BA:2444:G:C8	2.28	0.58
24:BA:246:C:N4	24:BA:252:G:H1	2.01	0.58
24:BA:2479:G:H5''	24:BA:2537:U:H4'	1.86	0.58
24:BA:252:G:C2	24:BA:253:C:C6	2.92	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:25:U:O2	24:BA:25:U:H2'	2.03	0.58
24:BA:2748:A:C6	24:BA:2757:A:N6	2.72	0.58
24:BA:600:G:O2'	29:BF:104:LYS:HG2	2.04	0.58
24:BA:670:A:H5''	24:BA:671:C:OP1	2.03	0.58
24:BA:76:C:H2'	24:BA:76:C:O2	2.03	0.58
25:BB:52:A:H2'	25:BB:53:A:H5'	1.85	0.58
24:BA:1791:A:O3'	27:BD:206:LEU:CD2	2.52	0.58
24:BA:1971:A:C2	27:BD:239:ARG:HB3	2.39	0.58
27:BD:244:ARG:O	27:BD:252:TRP:CD1	2.57	0.58
24:BA:1804:C:OP1	27:BD:257:LEU:HD22	2.04	0.58
28:BE:104:VAL:HG21	28:BE:198:VAL:HG22	1.85	0.58
28:BE:128:SER:OG	28:BE:129:HIS:HD2	1.86	0.58
28:BE:156:MET:O	28:BE:160:TYR:CE1	2.57	0.58
29:BF:156:LEU:HG	29:BF:173:VAL:CG2	2.34	0.58
29:BF:82:ILE:O	29:BF:83:PHE:HB3	2.04	0.58
30:BG:39:ILE:HG13	30:BG:157:ILE:CG1	2.34	0.58
30:BG:26:GLN:OE1	30:BG:29:TRP:HE3	1.87	0.58
33:BL:42:ASN:O	33:BL:46:ALA:HB2	2.03	0.58
35:BN:101:PRO:O	35:BN:102:VAL:HB	2.02	0.58
35:BN:23:ARG:CD	35:BN:23:ARG:N	2.67	0.58
35:BN:9:GLU:HB2	35:BN:81:ASP:O	2.03	0.58
36:BO:116:GLY:C	36:BO:121:LYS:HB3	2.24	0.58
36:BO:117:GLU:OE2	36:BO:117:GLU:N	2.34	0.58
36:BO:134:ALA:O	36:BO:135:LEU:C	2.39	0.58
36:BO:15:ARG:NH2	36:BO:16:ARG:H	2.01	0.58
24:BA:1249:U:H3	36:BO:21:ARG:NH1	2.00	0.58
37:BP:37:LEU:CA	37:BP:100:GLY:HA2	2.33	0.58
37:BP:109:VAL:HG21	37:BP:114:ALA:N	2.19	0.58
37:BP:94:VAL:HG23	37:BP:95:ALA:H	1.67	0.58
24:BA:2690:C:H5	38:BQ:14:SER:HB2	1.65	0.58
38:BQ:52:ILE:O	38:BQ:55:ALA:HB3	2.03	0.58
39:BR:68:GLN:O	39:BR:69:VAL:C	2.42	0.58
39:BR:49:VAL:HG22	39:BR:76:LYS:HZ2	1.68	0.58
40:BS:10:VAL:HB	40:BS:11:GLU:OE2	2.04	0.58
40:BS:28:VAL:HG22	40:BS:93:ARG:C	2.25	0.58
41:BT:59:ARG:HA	41:BT:62:ILE:CD1	2.33	0.58
42:BU:43:GLU:N	42:BU:44:LYS:NZ	2.37	0.58
44:BW:63:LYS:HA	44:BW:63:LYS:HZ3	1.69	0.58
44:BW:63:LYS:NZ	44:BW:72:LYS:HE2	2.18	0.58
45:BX:37:VAL:HG13	45:BX:39:VAL:HB	1.85	0.58
45:BX:69:ALA:HB3	45:BX:71:LYS:NZ	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:41:LEU:O	46:BY:42:VAL:C	2.42	0.58
46:BY:78:LYS:O	46:BY:80:ARG:N	2.37	0.58
26:BC:22:ILE:HG22	26:BC:186:ALA:HA	1.86	0.58
1:AA:341:C:O2'	1:AA:342:C:H5'	2.04	0.58
2:A1:30:U:C2'	2:A1:31:U:O4'	2.40	0.57
1:AA:1059:C:O2'	12:AM:53:PRO:HD3	2.04	0.57
1:AA:106:C:O2	1:AA:379:C:H4'	2.04	0.57
1:AA:1178:G:N2	1:AA:1180:A:C5'	2.67	0.57
1:AA:1275:A:H2'	1:AA:1276:G:H5'	1.86	0.57
1:AA:1367:C:OP1	11:AL:115:GLY:CA	2.51	0.57
1:AA:815:A:H2	1:AA:1527:C:O2	1.87	0.57
1:AA:197:A:N6	1:AA:221:C:C5'	2.65	0.57
1:AA:225:C:C2'	1:AA:226:G:C5'	2.79	0.57
1:AA:522:C:H1'	1:AA:536:C:H5''	1.85	0.57
1:AA:644:G:C2'	1:AA:645:C:H5'	2.33	0.57
1:AA:689:C:OP2	13:AN:46:GLY:HA3	2.04	0.57
1:AA:835:U:OP1	20:AU:64:ARG:NH1	2.33	0.57
1:AA:908:A:H2'	1:AA:909:A:H8	1.68	0.57
1:AA:935:A:H2'	1:AA:936:C:H6	1.69	0.57
3:AC:60:U:C5'	3:AC:61:C:OP2	2.48	0.57
4:AE:200:ILE:O	4:AE:200:ILE:HG22	2.02	0.57
4:AE:80:ILE:HD13	4:AE:211:ILE:HG22	1.86	0.57
4:AE:215:LEU:O	4:AE:215:LEU:HD13	2.03	0.57
4:AE:55:PHE:CE2	4:AE:218:ALA:HA	2.39	0.57
4:AE:84:GLU:HG3	4:AE:212:GLN:OE1	2.03	0.57
6:AG:18:LYS:C	6:AG:20:TYR:H	2.06	0.57
7:AH:62:ALA:HB3	7:AH:63:ARG:HE	1.68	0.57
7:AH:80:ILE:HG21	7:AH:142:LEU:HD21	1.86	0.57
9:AJ:50:ILE:CD1	9:AJ:58:PRO:HB3	2.34	0.57
10:AK:112:LEU:HD12	10:AK:131:GLY:C	2.24	0.57
10:AK:14:ARG:O	10:AK:17:THR:CB	2.48	0.57
10:AK:39:LEU:O	10:AK:43:GLY:O	2.22	0.57
11:AL:82:ALA:HB2	11:AL:101:PHE:CZ	2.39	0.57
11:AL:65:VAL:HG21	11:AL:77:ILE:HD11	1.85	0.57
13:AN:28:THR:CG2	13:AN:29:ILE:N	2.67	0.57
14:AO:5:PRO:O	14:AO:6:THR:CG2	2.52	0.57
15:AP:80:ARG:O	15:AP:84:ILE:HG12	2.04	0.57
16:AQ:34:TYR:N	16:AQ:34:TYR:CD1	2.71	0.57
18:AS:19:ILE:HB	18:AS:37:GLY:C	2.23	0.57
18:AS:49:LEU:HD12	18:AS:50:LYS:N	2.19	0.57
20:AU:46:GLU:N	20:AU:46:GLU:OE2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:49:ALA:HB3	22:AW:99:LEU:HD11	1.85	0.57
49:B2:10:LYS:HZ3	49:B2:12:PRO:CD	2.17	0.57
49:B2:4:LEU:CB	49:B2:37:LEU:HD23	2.18	0.57
50:B3:43:TYR:CA	50:B3:61:ARG:HH22	2.07	0.57
50:B3:58:ARG:HB3	50:B3:62:ARG:NH2	2.18	0.57
51:B4:35:GLU:CG	51:B4:49:CYS:HB3	2.34	0.57
51:B4:50:GLY:O	51:B4:51:TYR:HB3	2.04	0.57
52:B5:16:CYS:CB	52:B5:49:HIS:CA	2.67	0.57
54:B7:44:LYS:HG3	54:B7:44:LYS:O	2.03	0.57
24:BA:1061:U:O2'	24:BA:1070:A:H1'	2.03	0.57
24:BA:1124:C:H3'	24:BA:1125:G:C8	2.39	0.57
24:BA:1183:G:H1'	24:BA:1184:G:N7	2.18	0.57
24:BA:1264:G:OP2	24:BA:1265:A:H2	1.86	0.57
24:BA:141:A:H2'	24:BA:141:A:N3	2.18	0.57
24:BA:1664:A:C8	24:BA:1664:A:C3'	2.86	0.57
24:BA:1675:C:O2	24:BA:1675:C:C2'	2.52	0.57
24:BA:1688:U:O2'	24:BA:1689:A:OP2	2.20	0.57
24:BA:1753:G:H2'	24:BA:1755:A:N7	2.19	0.57
24:BA:739:G:C2'	24:BA:1784:A:H61	2.17	0.57
24:BA:1857:G:N7	24:BA:1883:G:O6	2.37	0.57
24:BA:2003:G:C6	24:BA:2004:G:C6	2.92	0.57
24:BA:2283:C:N3	24:BA:2284:C:H1'	2.19	0.57
24:BA:2377:A:H2'	24:BA:2378:A:C8	2.39	0.57
24:BA:2472:G:H3'	24:BA:2475:C:H42	1.69	0.57
24:BA:2479:G:H5''	24:BA:2537:U:C4'	2.35	0.57
24:BA:2508:G:C2'	24:BA:2509:G:H5'	2.34	0.57
24:BA:2723:C:HO2'	38:BQ:2:ARG:N	2.01	0.57
24:BA:2733:A:N7	24:BA:2734:A:C8	2.72	0.57
24:BA:2747:G:N2	24:BA:2748:A:H62	2.01	0.57
24:BA:2777:G:C8	24:BA:2777:G:C3'	2.86	0.57
24:BA:2781:A:C2'	24:BA:2782:G:H4'	2.34	0.57
24:BA:481:G:H2'	24:BA:507:A:N6	2.18	0.57
24:BA:500:G:H1'	24:BA:502:A:OP2	2.04	0.57
24:BA:506:G:HO2'	24:BA:507:A:H8	1.51	0.57
24:BA:581:C:H5''	41:BT:32:PHE:CG	2.39	0.57
24:BA:611:C:O2	24:BA:616:A:H2	1.87	0.57
24:BA:669:G:N3	24:BA:801:G:N2	2.52	0.57
24:BA:738:G:H2'	24:BA:739:G:H1'	1.85	0.57
24:BA:942:G:C6	24:BA:943:U:O4	2.57	0.57
24:BA:972:G:OP1	24:BA:974(A):C:C5'	2.47	0.57
25:BB:73:A:N6	25:BB:104:A:C1'	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:158:ALA:C	27:BD:160:GLY:N	2.57	0.57
28:BE:111:ARG:HB2	28:BE:160:TYR:O	2.03	0.57
28:BE:105:THR:CG2	28:BE:199:ARG:NH2	2.67	0.57
28:BE:51:PHE:CD1	28:BE:52:LEU:N	2.72	0.57
29:BF:106:ARG:HG3	29:BF:107:LYS:H	1.67	0.57
29:BF:40:GLN:N	29:BF:184:TYR:OH	2.37	0.57
31:BH:15:VAL:HG22	31:BH:16:SER:N	2.19	0.57
31:BH:156:ALA:HA	31:BH:171:LEU:HD23	1.85	0.57
31:BH:17:VAL:CG2	31:BH:45:VAL:HG11	2.25	0.57
31:BH:71:LEU:O	31:BH:74:ASN:ND2	2.30	0.57
31:BH:89:ILE:HG12	31:BH:94:TYR:CE2	2.39	0.57
33:BL:10:LEU:HD11	33:BL:57:ILE:HD11	1.85	0.57
33:BL:8:VAL:HG22	33:BL:30:HIS:CD2	2.38	0.57
34:BM:55:VAL:C	34:BM:57:ALA:H	2.07	0.57
24:BA:2685:G:H4'	35:BN:66:LYS:CE	2.33	0.57
36:BO:49:ARG:NH2	54:B7:55:ALA:HB2	2.19	0.57
37:BP:68:ILE:HG13	37:BP:69:PHE:H	1.69	0.57
38:BQ:61:HIS:ND1	38:BQ:64:ARG:NE	2.51	0.57
39:BR:57:LYS:NZ	39:BR:62:LYS:HG3	2.17	0.57
39:BR:9:ARG:O	39:BR:12:PHE:CD2	2.56	0.57
40:BS:55:ASN:HD22	40:BS:57:PHE:HE2	1.52	0.57
41:BT:108:GLU:CD	41:BT:109:LEU:H	2.06	0.57
24:BA:445:C:C3'	41:BT:3:ARG:HE	2.07	0.57
41:BT:81:HIS:CG	41:BT:117:GLN:HE22	2.22	0.57
43:BV:18:ARG:HD2	43:BV:75:TYR:HB3	1.85	0.57
44:BW:39:ILE:HD12	44:BW:54:VAL:CG1	2.34	0.57
45:BX:33:LYS:O	45:BX:34:LYS:C	2.42	0.57
47:BZ:44:ARG:HH21	47:BZ:77:ARG:NH1	2.02	0.57
24:BA:2134:A:C6	24:BA:2135:A:C2	2.92	0.57
24:BA:2147:G:H2'	24:BA:2147:G:N3	2.18	0.57
26:BC:99:ILE:HG23	26:BC:107:TRP:HZ3	1.69	0.57
1:AA:341:C:O2'	1:AA:342:C:C5'	2.52	0.57
2:A1:6:U:H2'	2:A1:6:U:O2	2.02	0.57
1:AA:1163:C:H2'	1:AA:1164:G:H5'	1.84	0.57
1:AA:1006:C:O2	1:AA:1006:C:H2'	2.03	0.57
1:AA:1147:C:N3	1:AA:1148:U:C5	2.72	0.57
1:AA:1194:U:C5	1:AA:1195:C:C5	2.92	0.57
1:AA:1319:A:N6	1:AA:1323:G:N3	2.52	0.57
1:AA:1448:C:N3	1:AA:1459:C:O2	2.37	0.57
1:AA:197:A:OP2	1:AA:197:A:O4'	2.22	0.57
1:AA:276:G:P	19:AT:14:LYS:HD3	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:301:G:N2	1:AA:302:G:N9	2.53	0.57
1:AA:325:A:N7	1:AA:326:G:C6	2.72	0.57
1:AA:35:G:O2'	1:AA:36:C:H5'	2.03	0.57
1:AA:544:G:H2'	1:AA:545:C:H6	1.64	0.57
1:AA:547:A:H5'	1:AA:548:G:OP1	2.04	0.57
1:AA:562:C:O2'	14:AO:15:ARG:CD	2.49	0.57
1:AA:572:A:O5'	1:AA:573:A:P	2.62	0.57
1:AA:586:C:OP1	19:AT:34:LYS:CE	2.52	0.57
1:AA:600:C:H5'	10:AK:129:VAL:HA	1.86	0.57
1:AA:61:G:C6	1:AA:107:G:C6	2.92	0.57
1:AA:714:G:H8	1:AA:714:G:O5'	1.87	0.57
1:AA:778:G:HO2'	1:AA:779:C:H5'	1.69	0.57
1:AA:744:C:O2'	1:AA:851:G:N2	2.37	0.57
1:AA:875:C:C2	1:AA:876:G:C8	2.91	0.57
1:AA:900:A:C2'	1:AA:901:A:O5'	2.53	0.57
1:AA:924:C:C2	1:AA:925:G:N7	2.72	0.57
1:AA:932:C:H3'	9:AJ:3:ARG:CG	2.21	0.57
3:AB:27:G:H2'	3:AB:28:G:C8	2.39	0.57
3:AB:19:G:O2'	3:AB:57:G:N2	2.37	0.57
3:AC:31:A:H3'	3:AC:32:U:H6	1.68	0.57
4:AE:67:THR:OG1	4:AE:155:LEU:HD11	2.04	0.57
4:AE:182:ILE:H	4:AE:182:ILE:CD1	2.16	0.57
1:AA:1107:C:P	5:AF:172:ARG:HH11	2.28	0.57
5:AF:189:ALA:HB3	5:AF:196:LEU:N	2.12	0.57
5:AF:181:ASN:HD22	5:AF:206:GLU:HA	1.69	0.57
6:AG:110:PHE:CZ	6:AG:147:ALA:CB	2.87	0.57
7:AH:107:ARG:CZ	7:AH:107:ARG:HB2	2.33	0.57
8:AI:83:ASP:OD1	8:AI:84:ASN:ND2	2.37	0.57
10:AK:11:THR:C	10:AK:13:ILE:N	2.56	0.57
10:AK:17:THR:HG21	10:AK:18:ARG:NH2	2.19	0.57
1:AA:591:U:OP1	10:AK:30:ARG:NH2	2.37	0.57
10:AK:5:PRO:O	10:AK:6:ILE:C	2.42	0.57
11:AL:47:LEU:HD21	11:AL:50:LEU:HD13	1.86	0.57
11:AL:67:GLY:O	11:AL:73:GLN:NE2	2.37	0.57
12:AM:16:LEU:HB3	12:AM:70:ARG:HG2	1.86	0.57
12:AM:9:ARG:CB	12:AM:9:ARG:HH11	2.17	0.57
1:AA:35:G:O2'	14:AO:118:SER:HA	2.04	0.57
16:AQ:23:ARG:HH11	16:AQ:28:GLY:C	2.07	0.57
19:AT:31:LEU:C	19:AT:32:TYR:HD2	2.05	0.57
1:AA:191:G:O2'	22:AW:102:GLY:O	2.21	0.57
51:B4:55:ARG:C	51:B4:57:VAL:N	2.56	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:27:LYS:CG	52:B5:29:ASN:HD21	2.15	0.57
53:B6:46:VAL:HG12	53:B6:47:ARG:N	2.19	0.57
24:BA:1137:G:N7	24:BA:1138:G:C8	2.72	0.57
24:BA:1142:U:H2'	24:BA:1142(A):A:C8	2.39	0.57
24:BA:120:U:H1'	24:BA:149:A:H1'	1.85	0.57
24:BA:128:C:H2'	24:BA:129:C:C6	2.39	0.57
24:BA:1447:G:H21	24:BA:1545:A:H2	1.51	0.57
24:BA:1494:A:C2	24:BA:1495:A:O4'	2.56	0.57
24:BA:1435:G:C2	24:BA:1558:A:N6	2.72	0.57
24:BA:1429:G:N2	24:BA:1565:C:O2	2.37	0.57
24:BA:1853:A:C4	24:BA:1854:A:C8	2.91	0.57
24:BA:1913:A:H2'	24:BA:1913:A:N3	2.20	0.57
24:BA:1916:A:C8	24:BA:1916:A:OP2	2.57	0.57
24:BA:1925:C:O2	24:BA:1925:C:H2'	2.03	0.57
24:BA:1944:U:C2'	24:BA:1945:G:OP1	2.52	0.57
24:BA:2013:A:H2'	24:BA:2014:A:O5'	2.04	0.57
24:BA:2227:A:C5	24:BA:2228:G:C8	2.92	0.57
24:BA:2307:G:C8	24:BA:2308:G:H1'	2.39	0.57
24:BA:2547:U:H2'	24:BA:2548:G:C5'	2.34	0.57
24:BA:2553:G:O6	24:BA:2583:G:O2'	2.21	0.57
24:BA:270(C):C:N4	24:BA:270(D):C:N4	2.51	0.57
24:BA:2755:C:H4'	24:BA:2756:U:C5	2.38	0.57
24:BA:2831:G:H1'	24:BA:2883:A:H2'	1.86	0.57
24:BA:366:C:H5''	24:BA:403:U:H3	1.69	0.57
24:BA:281:G:C8	24:BA:427:U:O2	2.56	0.57
24:BA:468:G:N7	24:BA:469:G:C4	2.72	0.57
24:BA:510:C:O5'	24:BA:512:G:C6	2.57	0.57
24:BA:516:C:H2'	24:BA:517:C:C6	2.39	0.57
24:BA:540:G:C6	24:BA:541:C:C4	2.93	0.57
24:BA:580:C:C2	24:BA:581:C:C5	2.92	0.57
24:BA:673:C:O2'	24:BA:674:G:H5'	2.03	0.57
25:BB:14:U:C1'	25:BB:107:U:H1'	2.34	0.57
28:BE:175:VAL:HG23	28:BE:175:VAL:O	2.04	0.57
28:BE:31:CYS:O	28:BE:33:VAL:HG13	2.04	0.57
28:BE:33:VAL:HG23	28:BE:34:VAL:HG23	1.86	0.57
28:BE:59:VAL:HG12	28:BE:62:PRO:HD2	1.86	0.57
24:BA:2749:A:H4'	31:BH:62:LYS:CB	2.34	0.57
24:BA:1139:G:O5'	34:BM:63:THR:HG21	2.04	0.57
34:BM:66:LYS:CA	34:BM:69:GLN:OE1	2.52	0.57
36:BO:124:LYS:CA	36:BO:143:GLY:HA3	2.34	0.57
37:BP:109:VAL:CG1	37:BP:110:THR:N	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:112:GLU:CA	37:BP:115:MET:HB2	2.34	0.57
38:BQ:87:TYR:CE2	38:BQ:118:GLU:OE1	2.57	0.57
38:BQ:77:ARG:O	38:BQ:78:LYS:C	2.42	0.57
42:BU:11:GLN:O	42:BU:21:ARG:CD	2.51	0.57
44:BW:12:VAL:HG22	44:BW:29:TRP:CE2	2.39	0.57
24:BA:1598:C:O2'	44:BW:35:THR:HG23	2.04	0.57
24:BA:338:G:OP1	45:BX:2:ARG:NH2	2.37	0.57
45:BX:13:VAL:CG1	45:BX:70:SER:HB3	2.32	0.57
47:BZ:82:ARG:HG2	47:BZ:83:PRO:N	2.18	0.57
32:BK:125:GLU:HA	32:BK:142:VAL:O	2.03	0.57
26:BC:93:TYR:CE2	26:BC:109:ASP:O	2.57	0.57
26:BC:68:LEU:HD22	26:BC:156:ILE:O	2.04	0.57
1:AA:336:C:H2'	1:AA:337:C:C6	2.38	0.57
1:AA:346:G:N2	1:AA:347:G:C4	2.71	0.57
2:A1:23:A:H2'	2:A1:24:A:H8	1.69	0.57
1:AA:1133:G:N1	1:AA:1142:G:C6	2.72	0.57
1:AA:199:G:O2'	1:AA:200:G:H5'	2.04	0.57
1:AA:330:C:H2'	1:AA:331:G:H8	1.70	0.57
1:AA:412:A:H4'	1:AA:412:A:OP2	2.04	0.57
1:AA:559:A:O2'	1:AA:560:U:P	2.61	0.57
1:AA:673:G:N2	1:AA:674:G:C2	2.72	0.57
1:AA:689:C:H2'	1:AA:690:G:C1'	2.34	0.57
1:AA:696:A:H2'	1:AA:697:U:H5'	1.86	0.57
1:AA:708:C:C4'	13:AN:37:GLY:HA3	2.34	0.57
1:AA:731:G:O2'	1:AA:732:C:C5'	2.52	0.57
1:AA:757:U:H1'	1:AA:879:C:O2'	2.03	0.57
1:AA:862:C:C4	1:AA:863:U:H5	2.21	0.57
1:AA:873:A:OP1	1:AA:873:A:O4'	2.22	0.57
1:AA:968:A:C5'	1:AA:969:A:O5'	2.51	0.57
1:AA:981:U:H3'	1:AA:981:U:C6	2.39	0.57
3:AC:46:G:OP2	3:AC:46:G:O4'	2.22	0.57
3:AC:55:U:C2'	3:AC:57:G:N7	2.67	0.57
3:AC:70:G:H2'	3:AC:71:G:H8	1.67	0.57
3:AD:35:A:H2'	3:AD:36:A:C1'	2.34	0.57
4:AE:100:GLY:HA2	4:AE:176:GLU:OE2	2.03	0.57
4:AE:179:LYS:O	4:AE:181:PHE:N	2.37	0.57
5:AF:46:GLU:O	5:AF:47:LEU:HD13	2.03	0.57
6:AG:67:ILE:HD12	6:AG:68:TYR:N	2.19	0.57
7:AH:132:ALA:O	7:AH:135:THR:HB	2.04	0.57
8:AI:12:PRO:CB	8:AI:58:GLY:HA2	2.20	0.57
8:AI:67:MET:SD	8:AI:67:MET:N	2.76	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:71:PRO:CG	9:AJ:96:GLN:HA	2.34	0.57
10:AK:94:TYR:CE1	10:AK:132:GLU:OE1	2.57	0.57
10:AK:32:LYS:HG3	10:AK:59:LEU:CD1	2.34	0.57
1:AA:878:G:H5''	10:AK:89:PRO:O	2.03	0.57
12:AM:32:ALA:HB2	12:AM:75:ILE:C	2.24	0.57
16:AQ:24:CYS:N	16:AQ:33:VAL:HG11	2.18	0.57
20:AU:18:ARG:HH21	20:AU:21:LYS:CB	2.10	0.57
48:B1:32:PHE:N	48:B1:32:PHE:HD1	2.01	0.57
48:B1:50:ARG:HB2	48:B1:54:ARG:HH12	1.69	0.57
49:B2:6:VAL:HB	49:B2:35:ARG:HH21	1.68	0.57
52:B5:51:GLU:OE1	52:B5:52:VAL:CA	2.52	0.57
55:B8:25:VAL:HG21	55:B8:34:GLN:OE1	2.04	0.57
24:BA:1084:A:N7	24:BA:1085:A:C2	2.73	0.57
24:BA:1291:C:H5'	24:BA:1535:U:HO2'	1.69	0.57
24:BA:1343:G:N2	24:BA:1405:U:H1'	2.20	0.57
24:BA:1353:A:N7	24:BA:1377:G:N2	2.53	0.57
24:BA:1458:C:O2	24:BA:1461:G:N2	2.37	0.57
24:BA:1520:U:C6	24:BA:1520:U:H3'	2.35	0.57
24:BA:1471:A:C4	24:BA:1521:G:N2	2.72	0.57
24:BA:1538:G:C2	24:BA:1539:G:N3	2.72	0.57
24:BA:1466:G:HO2'	24:BA:1547:C:H41	1.51	0.57
24:BA:1770:G:H2'	24:BA:1771:C:C6	2.39	0.57
24:BA:1780:A:O2'	24:BA:1781:C:OP1	2.22	0.57
24:BA:1794:U:H2'	24:BA:1795:C:C6	2.39	0.57
24:BA:1832:C:N4	24:BA:1833:U:C4	2.72	0.57
24:BA:1855:G:C6	24:BA:1856:G:C5	2.93	0.57
24:BA:1857:G:O2'	24:BA:1885:A:N6	2.38	0.57
24:BA:1987:G:C2	24:BA:1988:C:C4	2.92	0.57
24:BA:2011:U:H2'	24:BA:2012:G:H8	1.67	0.57
24:BA:217:G:H2'	24:BA:218:A:O5'	2.04	0.57
24:BA:2197:U:H1'	24:BA:2198:A:C2	2.39	0.57
24:BA:221:A:N7	24:BA:266:G:N7	2.52	0.57
24:BA:2285:C:C5	52:B5:27:LYS:NZ	2.72	0.57
24:BA:2380:C:C4	24:BA:2381:C:C5	2.92	0.57
24:BA:243:U:O2	24:BA:243:U:C2'	2.53	0.57
24:BA:247:G:C2	24:BA:249:C:O2'	2.51	0.57
24:BA:2694:G:C6	24:BA:2695:C:C4	2.92	0.57
24:BA:2794:C:C2'	24:BA:2795:G:OP1	2.51	0.57
24:BA:387:U:H4'	24:BA:388:G:C1'	2.33	0.57
24:BA:612:G:C4'	24:BA:616:A:N6	2.53	0.57
24:BA:712:G:C4	24:BA:713:G:N7	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:827:U:O3'	24:BA:828:U:O2	2.23	0.57
24:BA:943:U:C4'	24:BA:943:U:OP1	2.51	0.57
24:BA:957:A:N1	24:BA:2459:A:H5'	2.19	0.57
27:BD:10:THR:N	27:BD:11:PRO:CD	2.67	0.57
28:BE:105:THR:CB	28:BE:166:THR:CB	2.69	0.57
28:BE:149:ARG:NH1	28:BE:151:TYR:HA	2.19	0.57
28:BE:44:TYR:O	28:BE:81:ILE:HG23	2.04	0.57
24:BA:320:A:O2'	29:BF:168:ARG:NH1	2.37	0.57
29:BF:181:LEU:H	29:BF:181:LEU:HD13	1.67	0.57
30:BG:12:TYR:CG	30:BG:13:GLU:N	2.72	0.57
30:BG:19:LEU:HA	30:BG:22:ARG:NE	2.19	0.57
24:BA:2310:A:C2	30:BG:83:ARG:NH2	2.72	0.57
31:BH:66:GLY:C	31:BH:69:ARG:HG2	2.24	0.57
31:BH:6:ARG:CD	31:BH:66:GLY:HA2	2.34	0.57
34:BM:7:LYS:HZ3	34:BM:39:ARG:HH12	1.52	0.57
35:BN:121:VAL:O	35:BN:122:LEU:HB2	2.03	0.57
35:BN:47:ILE:O	35:BN:47:ILE:HG23	2.04	0.57
35:BN:63:VAL:O	35:BN:64:ARG:CB	2.51	0.57
35:BN:67:LYS:N	35:BN:67:LYS:HE2	2.20	0.57
36:BO:126:VAL:CG2	36:BO:127:ALA:N	2.66	0.57
37:BP:96:VAL:HG12	37:BP:98:LYS:HZ1	1.70	0.57
38:BQ:73:VAL:O	38:BQ:74:LYS:C	2.42	0.57
39:BR:24:LEU:HD11	39:BR:41:ASP:HB3	1.86	0.57
41:BT:67:ALA:HB1	41:BT:71:GLN:NE2	2.15	0.57
24:BA:494:G:C5'	43:BV:7:ALA:HA	2.33	0.57
24:BA:751:A:H4'	43:BV:90:ARG:CZ	2.34	0.57
45:BX:95:LYS:CG	45:BX:103:GLY:HA3	2.32	0.57
46:BY:104:PHE:CA	46:BY:139:VAL:O	2.53	0.57
46:BY:158:PRO:CB	46:BY:159:PRO:HD2	2.27	0.57
46:BY:31:ARG:NH1	46:BY:31:ARG:O	2.37	0.57
47:BZ:63:VAL:O	47:BZ:81:VAL:HG11	2.04	0.57
1:AA:338:A:O2'	1:AA:339:C:H5'	2.03	0.57
1:AA:346:G:N2	1:AA:347:G:C5	2.72	0.57
24:BA:1579:A:N6	24:BA:1581:G:C2	2.72	0.57
1:AA:926:G:N2	2:A1:39:U:OP2	2.37	0.57
1:AA:1085:U:C5'	1:AA:1094:G:N2	2.65	0.57
1:AA:109:A:N6	1:AA:326:G:C6	2.73	0.57
1:AA:1275:A:C2'	1:AA:1276:G:H5'	2.34	0.57
1:AA:1440:C:H6	1:AA:1440:C:OP2	1.87	0.57
1:AA:1502:A:C6	1:AA:1504:G:C2	2.93	0.57
1:AA:21:G:C8	1:AA:22:G:N7	2.71	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:247:G:C6	1:AA:278:G:N1	2.73	0.57
1:AA:287:U:H2'	1:AA:288:A:C5'	2.34	0.57
1:AA:296:U:H2'	1:AA:297:G:H8	1.66	0.57
1:AA:565:U:H2'	1:AA:566:G:N7	2.19	0.57
1:AA:877:C:OP1	10:AK:88:LYS:HD3	2.04	0.57
1:AA:952:U:H5'	1:AA:972:C:N4	2.07	0.57
3:AC:75:C:H2'	3:AC:76:A:O3'	2.04	0.57
4:AE:105:PHE:C	4:AE:107:THR:H	2.06	0.57
4:AE:70:PHE:HA	4:AE:163:PHE:O	2.04	0.57
4:AE:178:ARG:NH2	4:AE:196:LEU:O	2.37	0.57
5:AF:84:ILE:HG13	5:AF:101:LEU:CD2	2.31	0.57
5:AF:107:GLN:OE1	5:AF:111:LEU:HD22	2.05	0.57
5:AF:44:GLU:HA	5:AF:52:LEU:CD1	2.33	0.57
6:AG:114:ARG:O	6:AG:117:ALA:HB3	2.04	0.57
6:AG:125:HIS:HA	6:AG:149:ALA:HB3	1.85	0.57
6:AG:170:VAL:HG11	6:AG:174:LEU:CB	2.34	0.57
8:AI:75:LEU:CD2	8:AI:79:LEU:HD21	2.30	0.57
9:AJ:113:GLU:HB2	9:AJ:118:VAL:HG11	1.87	0.57
12:AM:27:ALA:HB2	12:AM:85:LEU:CD2	2.34	0.57
13:AN:13:GLN:CB	13:AN:76:GLY:HA3	2.33	0.57
15:AP:52:GLU:HB3	15:AP:55:ARG:NH2	2.20	0.57
15:AP:60:VAL:HG22	15:AP:64:TRP:CE3	2.39	0.57
17:AR:71:GLN:N	17:AR:78:TYR:CD1	2.72	0.57
22:AW:49:ALA:HB1	22:AW:99:LEU:HG	1.86	0.57
50:B3:21:VAL:CG1	50:B3:22:ILE:H	2.06	0.57
38:BQ:99:LYS:HE2	51:B4:43:HIS:CE1	2.39	0.57
52:B5:32:ASN:ND2	52:B5:33:LYS:N	2.52	0.57
24:BA:1052:C:O2'	24:BA:1053:C:H5'	2.05	0.57
24:BA:1351:C:O2'	24:BA:1571:A:C1'	2.49	0.57
24:BA:1389:G:H2'	24:BA:1390:U:C6	2.39	0.57
24:BA:1463:C:H2'	24:BA:1464:C:O5'	2.04	0.57
24:BA:1477:A:H2'	24:BA:1478:G:C1'	2.34	0.57
24:BA:1496:A:H2'	24:BA:1496:A:N3	2.18	0.57
24:BA:1424:G:H5'	24:BA:1499:C:O2'	2.05	0.57
24:BA:149:A:C8	24:BA:150:C:C6	2.93	0.57
24:BA:1603:A:H3'	24:BA:1603:A:P	2.44	0.57
24:BA:1707:G:C4	24:BA:1708:C:C5	2.92	0.57
24:BA:1784:A:H4'	24:BA:1785:A:O4'	2.04	0.57
24:BA:1975:G:C2'	24:BA:1976:U:O5'	2.52	0.57
24:BA:1999:C:C2'	24:BA:2000:G:O5'	2.51	0.57
24:BA:2075:U:O2	24:BA:2076:U:C5'	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2211:G:C3'	24:BA:2211:G:N3	2.64	0.57
24:BA:221:A:O2'	24:BA:222:A:P	2.62	0.57
24:BA:228:A:H2'	24:BA:229:A:C5'	2.32	0.57
24:BA:2327:A:C2'	24:BA:2328:A:C8	2.73	0.57
24:BA:2394:C:OP1	36:BO:57:THR:CA	2.52	0.57
24:BA:2472:G:C2'	24:BA:2475:C:H42	2.17	0.57
24:BA:253:C:C2'	24:BA:254:G:H5'	2.34	0.57
24:BA:266:G:H5'	24:BA:271(A):C:H42	1.68	0.57
24:BA:2759:G:O2'	24:BA:2760:C:H5'	2.04	0.57
24:BA:2765:A:O2'	24:BA:2766:G:OP1	2.19	0.57
24:BA:2784:C:H2'	24:BA:2785:C:H6	1.69	0.57
24:BA:2834:G:H3'	24:BA:2834:G:H8	1.69	0.57
24:BA:360:G:H2'	24:BA:361:G:O5'	2.04	0.57
24:BA:451:C:C5	24:BA:453:C:H5'	2.32	0.57
24:BA:559:G:C2'	24:BA:560:C:H6	2.04	0.57
24:BA:65:C:C2	24:BA:66:C:C5	2.92	0.57
24:BA:691:C:N3	24:BA:692:C:C5	2.73	0.57
24:BA:807:U:O2	24:BA:808:G:C8	2.57	0.57
24:BA:811:U:H3'	24:BA:811:U:H6	1.70	0.57
24:BA:954:G:O6	24:BA:964:C:N4	2.37	0.57
24:BA:977:G:C2	24:BA:978:G:H1'	2.40	0.57
27:BD:146:GLU:CA	27:BD:154:LYS:HG2	2.34	0.57
24:BA:2209:C:C4'	27:BD:150:LYS:HB3	2.27	0.57
27:BD:155:LEU:HG	27:BD:157:ARG:CZ	2.34	0.57
24:BA:449:A:H4'	29:BF:52:LYS:NZ	2.19	0.57
30:BG:4:ASP:HB3	30:BG:104:GLU:CD	2.24	0.57
30:BG:170:ARG:HD3	30:BG:174:GLU:HB2	1.87	0.57
30:BG:33:ARG:HH21	30:BG:34:LEU:N	2.03	0.57
30:BG:79:ASN:O	30:BG:82:LEU:HD23	2.05	0.57
31:BH:11:VAL:HG11	31:BH:17:VAL:HG21	1.86	0.57
32:BK:40:THR:HG22	32:BK:41:GLU:N	2.19	0.57
34:BM:123:TYR:CG	34:BM:129:PRO:HB2	2.40	0.57
34:BM:76:SER:OG	34:BM:81:GLY:O	2.21	0.57
24:BA:672:C:C6	36:BO:38:GLN:OE1	2.57	0.57
36:BO:46:LYS:NZ	36:BO:50:ARG:NH1	2.52	0.57
37:BP:36:ALA:HA	37:BP:129:THR:HG22	1.86	0.57
37:BP:14:ARG:O	37:BP:73:PRO:HG2	2.04	0.57
40:BS:7:ILE:O	40:BS:9:LEU:N	2.37	0.57
41:BT:30:LYS:O	41:BT:32:PHE:CD1	2.56	0.57
41:BT:46:ALA:O	41:BT:49:HIS:HB2	2.04	0.57
43:BV:59:VAL:HG21	43:BV:66:GLU:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:65:LEU:O	43:BV:68:ARG:HG2	2.05	0.57
43:BV:76:VAL:HA	43:BV:104:THR:HG22	1.87	0.57
47:BZ:11:ARG:HH11	47:BZ:11:ARG:HG2	1.69	0.57
47:BZ:40:GLN:HG2	47:BZ:45:PHE:HD1	1.69	0.57
3:AD:55:U:O2'	3:AD:57:G:N7	2.37	0.57
24:BA:2161:C:C2'	24:BA:2162:G:H8	2.13	0.57
26:BC:116:THR:HG22	26:BC:149:ILE:HB	1.86	0.57
26:BC:131:LEU:HB3	26:BC:136:LEU:HB2	1.85	0.57
26:BC:20:TYR:CE1	26:BC:222:VAL:HG22	2.39	0.57
1:AA:799:G:H3'	1:AA:800:G:C8	2.39	0.57
15:AP:121:LYS:HE3	15:AP:121:LYS:C	2.24	0.57
28:BE:16:ARG:HB3	28:BE:17:ASP:OD2	2.04	0.57
1:AA:1022:G:N3	1:AA:1022:G:H2'	2.18	0.57
24:BA:2106:G:O2'	24:BA:2107:C:H5'	2.03	0.57
2:A1:34:U:H3'	2:A1:34:U:C6	2.39	0.57
1:AA:1003:G:N7	1:AA:1004:A:N3	2.52	0.57
1:AA:1004:A:H2'	1:AA:1036:G:O6	2.05	0.57
1:AA:1039:C:H2'	1:AA:1040:U:H6	1.70	0.57
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.39	0.57
1:AA:1255:G:H21	1:AA:1276:G:H22	1.49	0.57
1:AA:136:C:H4'	18:AS:65:GLN:HE22	1.69	0.57
1:AA:22:G:C2'	1:AA:23:C:O4'	2.52	0.57
1:AA:266:G:H2'	19:AT:67:LYS:HZ3	1.70	0.57
1:AA:594:G:N2	1:AA:596:C:N4	2.52	0.57
1:AA:778:G:C4	1:AA:779:C:C5	2.92	0.57
1:AA:91:C:C2	1:AA:92:G:N7	2.72	0.57
3:AB:32:U:C4	3:AB:33:U:O4	2.57	0.57
3:AC:34:G:C2'	3:AC:35:A:H5'	2.34	0.57
4:AE:35:GLU:OE2	4:AE:36:ARG:O	2.23	0.57
4:AE:71:VAL:HG13	4:AE:73:THR:HG23	1.85	0.57
5:AF:12:LEU:HG	16:AQ:57:ARG:HG3	1.85	0.57
6:AG:106:TYR:HB3	6:AG:114:ARG:NE	2.20	0.57
6:AG:146:ILE:O	6:AG:147:ALA:HB2	2.03	0.57
6:AG:170:VAL:CG1	6:AG:174:LEU:HB2	2.34	0.57
6:AG:20:TYR:HB2	6:AG:27:TYR:HA	1.86	0.57
1:AA:540:G:H21	6:AG:42:GLN:HE22	1.52	0.57
6:AG:52:SER:OG	6:AG:54:TYR:HB3	2.05	0.57
7:AH:18:ARG:O	7:AH:25:ARG:O	2.21	0.57
7:AH:75:THR:O	7:AH:75:THR:HG23	2.05	0.57
9:AJ:113:GLU:OE1	9:AJ:118:VAL:C	2.42	0.57
1:AA:932:C:H5''	9:AJ:3:ARG:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:78:HIS:CG	10:AK:107:LEU:HD21	2.39	0.57
11:AL:50:LEU:CD2	11:AL:51:ARG:HH12	2.15	0.57
13:AN:41:THR:HB	13:AN:71:LYS:CE	2.34	0.57
14:AO:117:ARG:NH1	14:AO:117:ARG:HG3	2.14	0.57
15:AP:100:GLY:O	15:AP:101:GLN:O	2.23	0.57
15:AP:23:TYR:O	15:AP:66:LEU:HB2	2.04	0.57
15:AP:74:VAL:HG12	15:AP:78:ILE:CD1	2.26	0.57
16:AQ:40:CYS:O	16:AQ:44:LEU:HB3	2.04	0.57
17:AR:39:LEU:HD21	17:AR:56:LEU:HD22	1.85	0.57
20:AU:64:ARG:O	20:AU:67:ALA:HB3	2.05	0.57
1:AA:333:G:H4'	22:AW:16:HIS:HD2	1.65	0.57
49:B2:40:THR:HB	49:B2:43:ILE:HB	1.86	0.57
52:B5:17:LYS:HZ2	52:B5:50:ARG:HG3	1.69	0.57
52:B5:40:CYS:HA	52:B5:47:THR:O	2.05	0.57
24:BA:2754:U:H5'	55:B8:15:LYS:NZ	2.19	0.57
55:B8:9:ARG:C	55:B8:10:ILE:HG13	2.24	0.57
24:BA:1007:C:H2'	24:BA:1008:C:H5	1.70	0.57
24:BA:1168:G:C6	24:BA:1182:A:N1	2.72	0.57
24:BA:1257:C:O2'	29:BF:84:VAL:CG2	2.46	0.57
24:BA:1302:A:C5'	24:BA:1303:G:OP2	2.50	0.57
24:BA:1387:C:C2	24:BA:1388:G:N7	2.72	0.57
24:BA:141:A:N1	24:BA:141(A):C:O4'	2.37	0.57
24:BA:1515:C:OP1	24:BA:1515:C:H6	1.87	0.57
24:BA:1304:C:OP1	24:BA:1642:G:O2'	2.23	0.57
24:BA:1759:A:C2'	24:BA:1760:A:O5'	2.52	0.57
24:BA:1792:G:P	27:BD:206:LEU:HD21	2.44	0.57
24:BA:1982:C:C4	24:BA:1983:C:N4	2.72	0.57
24:BA:1992:G:C1'	24:BA:1993:U:C4	2.88	0.57
24:BA:2017:U:H1'	51:B4:8:LYS:O	2.05	0.57
24:BA:1131:G:N7	24:BA:2025:C:H4'	2.20	0.57
24:BA:2210:G:O2'	24:BA:2211:G:P	2.63	0.57
24:BA:2311:A:H5''	24:BA:2312:U:C5	2.40	0.57
24:BA:2466:C:H5''	55:B8:5:ALA:HB1	1.86	0.57
24:BA:250:G:H5'	54:B7:8:LYS:CG	2.35	0.57
24:BA:2520:C:O2'	24:BA:2521:C:C5'	2.50	0.57
24:BA:270(E):G:OP2	24:BA:270(E):G:H8	1.87	0.57
24:BA:270(R):G:N2	24:BA:270(S):G:N3	2.52	0.57
24:BA:2721:A:C2	24:BA:2873:A:C6	2.91	0.57
24:BA:2755:C:O5'	24:BA:2755:C:H6	1.87	0.57
24:BA:2768:C:O2'	24:BA:2769:C:H5'	2.04	0.57
24:BA:2809:A:O4'	24:BA:2809:A:N3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:303:U:C2'	24:BA:304:G:H5'	2.35	0.57
24:BA:460:A:H3'	24:BA:461:C:H6	1.69	0.57
24:BA:716:A:H2'	24:BA:717:G:C5'	2.28	0.57
24:BA:464:U:O2	24:BA:788:A:N7	2.38	0.57
27:BD:135:PHE:CD1	27:BD:135:PHE:N	2.73	0.57
27:BD:178:PRO:HG2	27:BD:179:SER:N	2.18	0.57
24:BA:1799:G:C3'	27:BD:183:ARG:NH2	2.63	0.57
27:BD:181:GLU:CB	27:BD:268:ARG:HE	2.14	0.57
28:BE:100:GLU:HB2	28:BE:172:VAL:HG11	1.86	0.57
29:BF:109:GLY:O	29:BF:111:ALA:N	2.36	0.57
29:BF:120:GLU:HA	29:BF:120:GLU:OE1	2.04	0.57
30:BG:32:PRO:HB2	30:BG:163:ALA:CA	2.33	0.57
3:AC:57:G:H5'	30:BG:81:LYS:O	2.05	0.57
30:BG:44:GLY:N	30:BG:88:ILE:CG2	2.67	0.57
32:BK:9:LEU:CG	32:BK:17:GLN:HE22	2.18	0.57
33:BL:77:LEU:HA	33:BL:80:LYS:HB2	1.87	0.57
34:BM:34:LEU:CD2	34:BM:120:LEU:HB2	2.33	0.57
34:BM:23:LEU:HD23	34:BM:60:ILE:HG22	1.85	0.57
35:BN:39:ILE:CD1	35:BN:39:ILE:N	2.66	0.57
35:BN:77:ILE:HG12	40:BS:75:ILE:CD1	2.34	0.57
36:BO:135:LEU:CD1	36:BO:135:LEU:H	2.18	0.57
37:BP:111:GLU:HB2	37:BP:113:GLN:NE2	2.18	0.57
37:BP:27:VAL:CG2	37:BP:28:ALA:H	1.94	0.57
37:BP:43:THR:HG23	37:BP:46:GLN:HE21	1.69	0.57
37:BP:59:ARG:C	37:BP:60:ARG:HD2	2.24	0.57
38:BQ:31:HIS:CD2	38:BQ:34:ILE:HD11	2.39	0.57
39:BR:73:LEU:H	39:BR:73:LEU:CD1	2.17	0.57
40:BS:55:ASN:O	40:BS:57:PHE:HE2	1.87	0.57
40:BS:50:ILE:HG23	40:BS:68:TYR:HB2	1.85	0.57
42:BU:13:ARG:NH2	42:BU:43:GLU:OE2	2.37	0.57
42:BU:7:THR:O	42:BU:9:GLY:N	2.38	0.57
42:BU:83:ARG:HD3	42:BU:84:LYS:HA	1.87	0.57
45:BX:6:HIS:CG	45:BX:33:LYS:HZ3	2.22	0.57
46:BY:116:VAL:CG2	46:BY:144:LEU:O	2.52	0.57
46:BY:116:VAL:HA	46:BY:175:VAL:O	2.05	0.57
3:AD:19:G:N7	24:BA:2112:G:N7	2.52	0.57
26:BC:100:ILE:CG2	26:BC:127:LEU:HG	2.18	0.57
1:AA:1251:A:H2'	1:AA:1252:A:N7	2.20	0.57
1:AA:1238:A:N6	1:AA:1301:U:H3	1.97	0.57
1:AA:1468:A:H2'	1:AA:1469:G:O5'	2.05	0.57
1:AA:440:A:C3'	1:AA:442:C:H6	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:509:A:C5	1:AA:510:A:C6	2.92	0.57
1:AA:571:U:C3'	1:AA:572:A:C5'	2.72	0.57
1:AA:778:G:N3	1:AA:779:C:C6	2.73	0.57
1:AA:812:C:O2'	1:AA:813:U:OP2	2.20	0.57
1:AA:815:A:H1'	1:AA:817:C:H42	1.67	0.57
1:AA:876:G:O2'	10:AK:11:THR:HG21	2.05	0.57
1:AA:944:G:C2'	1:AA:945:G:H5''	2.34	0.57
1:AA:973:G:N1	1:AA:974:A:C6	2.73	0.57
4:AE:173:ALA:CA	4:AE:176:GLU:HB2	2.34	0.57
4:AE:187:LEU:CA	4:AE:201:ILE:O	2.45	0.57
4:AE:74:LYS:HZ3	4:AE:76:GLN:HB2	1.70	0.57
4:AE:79:ASP:O	4:AE:82:ARG:HB3	2.03	0.57
4:AE:69:LEU:CD1	4:AE:92:TYR:HA	2.32	0.57
5:AF:135:LYS:HZ2	7:AH:52:PRO:HG2	1.70	0.57
5:AF:159:GLY:N	5:AF:193:TYR:CE1	2.69	0.57
5:AF:22:TRP:CH2	5:AF:32:LEU:HB3	2.39	0.57
5:AF:8:ILE:HG22	5:AF:9:GLY:N	2.19	0.57
7:AH:63:ARG:CA	7:AH:66:MET:HG2	2.35	0.57
8:AI:60:PHE:HE2	20:AU:78:LEU:HD21	1.68	0.57
3:AD:32:U:O2'	9:AJ:77:SER:HB2	2.03	0.57
10:AK:18:ARG:N	10:AK:18:ARG:NH1	2.52	0.57
10:AK:40:ALA:N	10:AK:45:ILE:CG2	2.68	0.57
10:AK:45:ILE:HG13	10:AK:61:VAL:HG13	1.85	0.57
11:AL:47:LEU:HD11	11:AL:56:LEU:CG	2.33	0.57
12:AM:10:GLY:N	12:AM:16:LEU:HD11	2.19	0.57
12:AM:35:SER:N	12:AM:73:ASP:O	2.38	0.57
1:AA:685:G:H4'	13:AN:40:ILE:O	2.05	0.57
14:AO:88:GLY:O	14:AO:90:VAL:HG23	2.04	0.57
19:AT:68:ARG:H	19:AT:70:ARG:CZ	2.16	0.57
19:AT:74:LEU:HD13	19:AT:74:LEU:O	2.05	0.57
8:AI:95:GLU:HA	20:AU:32:ARG:HB3	1.85	0.57
20:AU:80:PRO:O	20:AU:82:THR:O	2.22	0.57
15:AP:87:TYR:HB2	21:AV:73:GLU:HB2	1.85	0.57
23:AX:12:LYS:HG3	23:AX:17:THR:OG1	2.05	0.57
1:AA:1270:C:OP1	23:AX:24:ARG:NH2	2.37	0.57
50:B3:47:GLN:HA	50:B3:52:THR:HB	1.83	0.57
50:B3:5:ILE:HD11	50:B3:9:LEU:C	2.24	0.57
50:B3:7:PRO:CG	50:B3:60:GLN:HB2	2.35	0.57
51:B4:17:ASP:N	51:B4:17:ASP:OD2	2.37	0.57
51:B4:32:PRO:HA	51:B4:38:ALA:O	2.04	0.57
53:B6:5:TRP:HZ3	53:B6:12:ARG:HH11	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:23:VAL:HB	55:B8:36:GLN:HG3	1.86	0.57
24:BA:2741:A:O3'	55:B8:2:LYS:NZ	2.36	0.57
24:BA:1021:A:C2	24:BA:1122:G:H4'	2.38	0.57
24:BA:1033:U:H5'	55:B8:16:VAL:CG1	2.33	0.57
24:BA:1065:U:H1'	24:BA:1074:G:H1	1.69	0.57
24:BA:1000:A:N6	24:BA:1155:A:H5'	2.19	0.57
24:BA:1221:C:H2'	24:BA:1221:C:O2	2.04	0.57
24:BA:134:C:C2	24:BA:146:G:N2	2.73	0.57
24:BA:137(A):G:N2	24:BA:142:G:C2	2.73	0.57
24:BA:1399:C:H2'	24:BA:1400:G:H8	1.70	0.57
24:BA:1424:G:H2'	24:BA:1425:G:O5'	2.04	0.57
24:BA:1443:G:C2	24:BA:1444:G:C1'	2.85	0.57
24:BA:1453:A:OP2	24:BA:1453:A:C4'	2.53	0.57
24:BA:14:A:N7	24:BA:15:G:C8	2.72	0.57
24:BA:1652:A:N7	24:BA:1653:G:N3	2.52	0.57
24:BA:1696:G:C6	24:BA:1697:G:C2	2.93	0.57
24:BA:1717:G:H21	24:BA:1718:G:H1'	1.69	0.57
24:BA:1902:C:H5'	27:BD:244:ARG:CZ	2.34	0.57
24:BA:1904:G:C2	24:BA:1905:C:C6	2.92	0.57
24:BA:1911:U:O4	24:BA:1913:A:N6	2.37	0.57
24:BA:1980:G:O2'	24:BA:1981:A:H5''	2.04	0.57
24:BA:1679:U:C4'	24:BA:1990:C:O2'	2.53	0.57
24:BA:1326:U:H6	24:BA:2010:G:H21	1.51	0.57
24:BA:2020:A:N6	24:BA:2034:U:O4	2.34	0.57
24:BA:2287:A:C8	24:BA:2289:G:C5	2.93	0.57
24:BA:233:A:H2'	24:BA:234:C:O5'	2.03	0.57
24:BA:2481:G:HO2'	24:BA:2482:G:C5'	2.18	0.57
24:BA:2519:U:C2	24:BA:2542:A:C2	2.92	0.57
24:BA:2539:C:H1'	55:B8:2:LYS:NZ	2.19	0.57
24:BA:2575:C:OP1	28:BE:144:ARG:NH2	2.37	0.57
24:BA:259:G:H1'	24:BA:621:A:O2'	2.05	0.57
24:BA:2648:C:H2'	24:BA:2649:U:C6	2.39	0.57
24:BA:270(J):G:H3'	24:BA:270(K):C:H6	1.68	0.57
24:BA:269:U:C5	24:BA:270(Z):U:OP2	2.58	0.57
24:BA:360:G:H8	24:BA:360:G:O5'	1.87	0.57
24:BA:431:U:H2'	24:BA:432:A:H5'	1.86	0.57
24:BA:569:U:O4	24:BA:2498:C:H4'	2.05	0.57
24:BA:605:C:H2'	24:BA:606:U:C6	2.38	0.57
24:BA:728:G:H21	24:BA:730:C:C5'	2.18	0.57
24:BA:733:G:OP2	24:BA:761:A:N6	2.37	0.57
24:BA:742:G:H5'	24:BA:1675:C:O2'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:758:C:H2'	24:BA:759:G:C8	2.40	0.57
24:BA:942:G:C2	24:BA:943:U:C4	2.92	0.57
25:BB:37:C:N3	25:BB:49:C:O4'	2.38	0.57
27:BD:269:PHE:O	27:BD:270:ILE:HG13	2.05	0.57
27:BD:63:ARG:HB2	27:BD:63:ARG:HH11	1.67	0.57
30:BG:119:GLY:O	30:BG:120:LEU:HD23	2.04	0.57
30:BG:132:ASN:O	30:BG:133:LEU:HB2	2.03	0.57
31:BH:31:GLY:C	31:BH:33:LEU:H	2.07	0.57
24:BA:2749:A:H4'	31:BH:62:LYS:HB2	1.85	0.57
32:BK:2:LYS:NZ	32:BK:44:LEU:HD11	2.18	0.57
35:BN:23:ARG:N	35:BN:23:ARG:HD3	2.18	0.57
35:BN:37:ASP:O	35:BN:61:VAL:HG23	2.04	0.57
35:BN:86:ILE:HG21	35:BN:90:GLN:HA	1.87	0.57
36:BO:123:LEU:O	36:BO:138:LEU:HD23	2.03	0.57
24:BA:811:U:C4	36:BO:23:PRO:CD	2.87	0.57
36:BO:42:SER:O	36:BO:44:GLY:N	2.37	0.57
36:BO:81:GLN:O	36:BO:86:LYS:HG2	2.04	0.57
37:BP:120:ILE:O	37:BP:121:ALA:C	2.43	0.57
37:BP:75:THR:HB	37:BP:77:LYS:CE	2.35	0.57
38:BQ:65:LEU:O	38:BQ:68:ARG:CB	2.52	0.57
39:BR:24:LEU:HD23	39:BR:39:ILE:HG22	1.87	0.57
25:BB:50:G:C4'	39:BR:61:ASN:OD1	2.51	0.57
39:BR:76:LYS:O	39:BR:80:LEU:CB	2.48	0.57
40:BS:26:ASP:O	40:BS:52:ILE:CG2	2.52	0.57
40:BS:56:GLY:O	40:BS:61:PHE:CA	2.53	0.57
41:BT:16:LYS:CG	41:BT:20:LEU:HD21	2.35	0.57
41:BT:59:ARG:HH11	41:BT:59:ARG:HB3	1.70	0.57
41:BT:84:LYS:N	41:BT:84:LYS:HE2	2.20	0.57
41:BT:92:ARG:O	41:BT:94:ASN:N	2.34	0.57
46:BY:76:LEU:HD23	46:BY:82:ARG:O	2.04	0.57
24:BA:2272:U:OP1	47:BZ:18:ALA:HB2	2.04	0.57
47:BZ:59:LEU:CD1	47:BZ:79:VAL:HG11	2.34	0.57
26:BC:141:LYS:O	26:BC:141:LYS:HG3	2.05	0.57
1:AA:1151:A:C5	1:AA:1152:A:C8	2.92	0.57
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.70	0.57
1:AA:1253:G:N2	1:AA:1254:C:H1'	2.17	0.57
1:AA:1302:U:H2'	1:AA:1303:C:H5'	1.87	0.57
1:AA:1394:A:H62	1:AA:1501:C:C4'	2.18	0.57
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.21	0.57
1:AA:250:A:H4'	1:AA:251:G:O5'	2.05	0.57
1:AA:295:C:O2'	1:AA:296:U:H5'	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:307:C:H41	1:AA:308:C:H41	1.52	0.57
1:AA:505:G:C6	1:AA:535:A:C2	2.92	0.57
1:AA:543:C:N3	1:AA:544:G:N7	2.52	0.57
1:AA:816:A:H2'	1:AA:817:C:OP2	2.04	0.57
1:AA:817:C:C2	1:AA:819:A:H5'	2.40	0.57
1:AA:890:G:C2'	1:AA:891:U:OP2	2.53	0.57
1:AA:900:A:H2'	1:AA:901:A:O5'	2.05	0.57
1:AA:943:U:H2'	1:AA:944:G:H8	1.70	0.57
4:AE:146:GLN:O	4:AE:147:LYS:C	2.42	0.57
5:AF:191:THR:C	5:AF:193:TYR:H	2.08	0.57
5:AF:187:ALA:N	5:AF:198:VAL:HG22	2.19	0.57
6:AG:155:LEU:N	6:AG:158:ILE:HG13	2.17	0.57
7:AH:37:ARG:NH1	7:AH:111:GLU:HB2	2.20	0.57
7:AH:50:GLU:HB2	7:AH:53:LEU:HD23	1.86	0.57
8:AI:75:LEU:O	8:AI:78:GLU:HB3	2.04	0.57
8:AI:95:GLU:H	8:AI:96:PRO:HD3	1.67	0.57
9:AJ:93:PRO:O	9:AJ:94:ARG:C	2.43	0.57
10:AK:18:ARG:HH11	10:AK:18:ARG:CB	2.17	0.57
10:AK:18:ARG:NH1	10:AK:18:ARG:CG	2.61	0.57
10:AK:29:SER:CB	10:AK:32:LYS:NZ	2.65	0.57
13:AN:106:LYS:HG2	13:AN:107:SER:N	2.19	0.57
15:AP:108:ARG:CZ	15:AP:111:LYS:HD3	2.34	0.57
15:AP:48:LEU:HD13	15:AP:53:VAL:HA	1.86	0.57
1:AA:112:G:OP2	18:AS:27:LYS:HD3	2.05	0.57
20:AU:61:LYS:CD	20:AU:64:ARG:HH22	2.07	0.57
21:AV:31:ILE:H	21:AV:49:ILE:HA	1.67	0.57
21:AV:32:LYS:HB2	21:AV:57:HIS:NE2	2.20	0.57
21:AV:5:LEU:HD12	21:AV:9:VAL:CG1	2.33	0.57
48:B1:26:GLU:HA	48:B1:29:GLU:HG3	1.86	0.57
48:B1:29:GLU:O	48:B1:32:PHE:HB2	2.04	0.57
49:B2:10:LYS:HG2	49:B2:12:PRO:CD	2.33	0.57
49:B2:17:LYS:CA	49:B2:20:LYS:NZ	2.68	0.57
24:BA:396:G:H5''	50:B3:10:VAL:HG13	1.86	0.57
54:B7:30:ARG:HH21	54:B7:43:GLN:CA	2.17	0.57
54:B7:31:HIS:O	54:B7:32:LEU:HD23	2.05	0.57
55:B8:9:ARG:NE	55:B8:16:VAL:HB	2.18	0.57
24:BA:1095:A:O2'	24:BA:1096:A:O4'	2.21	0.57
24:BA:1174:A:N3	24:BA:1175:U:H5''	2.19	0.57
24:BA:1234:U:H2'	24:BA:1235:G:C8	2.40	0.57
24:BA:565:C:O4'	24:BA:1252:G:O6	2.23	0.57
24:BA:130:C:OP1	24:BA:1348:G:N2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1315:C:C2	24:BA:1316:U:C5	2.93	0.57
24:BA:1545(A):A:O5'	24:BA:1545(A):A:C8	2.58	0.57
24:BA:1570:A:C2	24:BA:1571:A:N7	2.72	0.57
24:BA:1700:A:C8	24:BA:1701:A:C8	2.92	0.57
24:BA:163:U:C4	24:BA:171:G:H1'	2.39	0.57
24:BA:1780:A:C2'	24:BA:1781:C:OP1	2.52	0.57
24:BA:1782:C:H6	24:BA:1782:C:H3'	1.70	0.57
24:BA:1785:A:P	24:BA:1982:C:H4'	2.44	0.57
24:BA:1788:C:C2'	27:BD:222:ARG:HE	2.18	0.57
24:BA:1934:C:H4'	24:BA:1974:C:H4'	1.86	0.57
24:BA:1973:G:H2'	24:BA:1974:C:H6	1.70	0.57
24:BA:2047:U:O2'	24:BA:2048:G:H5'	2.04	0.57
24:BA:2053:G:H2'	24:BA:2054:A:O5'	2.05	0.57
24:BA:2206:C:C2	24:BA:2207:C:C5	2.92	0.57
24:BA:2243:U:O2	24:BA:2244:U:C6	2.57	0.57
24:BA:224:G:H2'	24:BA:225:A:O4'	2.04	0.57
24:BA:228:A:H2'	24:BA:230:U:OP1	2.04	0.57
24:BA:2323:G:H2'	24:BA:2324:C:H6	1.68	0.57
24:BA:252:G:O6	54:B7:8:LYS:NZ	2.27	0.57
24:BA:2596:U:O4	24:BA:2597:G:N1	2.38	0.57
24:BA:2777:G:C8	24:BA:2777:G:O5'	2.57	0.57
24:BA:2886:G:C2	24:BA:2887:U:C6	2.92	0.57
24:BA:326:G:H22	24:BA:337:C:C1'	2.17	0.57
24:BA:308:G:C2	24:BA:329:G:N2	2.73	0.57
24:BA:481:G:H22	24:BA:509:C:N4	2.01	0.57
24:BA:565:C:OP2	42:BU:80:GLN:O	2.22	0.57
24:BA:653:A:H3'	24:BA:654:A:H4'	1.87	0.57
24:BA:68:G:N2	24:BA:74:A:O5'	2.38	0.57
24:BA:814:C:C2	24:BA:815:C:C5	2.92	0.57
24:BA:823:G:C2	24:BA:824:A:C5	2.93	0.57
24:BA:878:A:N3	24:BA:879:G:C8	2.72	0.57
24:BA:952:G:C6	24:BA:966:G:C6	2.92	0.57
25:BB:88:C:H2'	25:BB:89:G:H5'	1.86	0.57
27:BD:117:VAL:O	27:BD:118:VAL:HG22	2.03	0.57
27:BD:148:GLU:HB2	27:BD:151:LYS:HG3	1.87	0.57
27:BD:151:LYS:HB2	27:BD:154:LYS:CE	2.33	0.57
27:BD:244:ARG:H	27:BD:245:PRO:CD	2.05	0.57
27:BD:181:GLU:C	27:BD:270:ILE:HD12	2.24	0.57
27:BD:7:LYS:HZ3	27:BD:91:ARG:NE	2.03	0.57
27:BD:61:LEU:CD1	27:BD:86:PRO:HD3	2.32	0.57
28:BE:113:PHE:O	28:BE:158:GLY:HA2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2619:C:H5''	28:BE:152:LYS:CB	2.33	0.57
28:BE:178:GLU:O	28:BE:180:ASN:N	2.37	0.57
24:BA:2811:G:P	28:BE:60:ASN:HD22	2.28	0.57
29:BF:27:GLU:HG3	29:BF:116:ASP:HB2	1.86	0.57
29:BF:204:ASN:OD1	29:BF:204:ASN:N	2.37	0.57
29:BF:34:TRP:CD1	29:BF:38:ARG:NH1	2.73	0.57
29:BF:39:TRP:CG	29:BF:40:GLN:N	2.73	0.57
29:BF:50:SER:O	29:BF:92:PRO:HG2	2.04	0.57
30:BG:165:THR:HB	30:BG:168:GLU:CD	2.25	0.57
30:BG:34:LEU:HD13	30:BG:100:TRP:NE1	2.18	0.57
30:BG:45:GLU:C	30:BG:47:LYS:N	2.58	0.57
30:BG:61:ALA:HB1	30:BG:67:LYS:HE2	1.82	0.57
31:BH:149:ARG:NH1	31:BH:164:TYR:HB3	2.20	0.57
31:BH:35:VAL:HG21	31:BH:75:ALA:CB	2.35	0.57
33:BL:32:ALA:HB1	33:BL:37:PHE:CD1	2.40	0.57
33:BL:57:ILE:CA	33:BL:66:THR:O	2.46	0.57
34:BM:13:TRP:HA	34:BM:51:PHE:O	2.04	0.57
34:BM:51:PHE:CE1	34:BM:119:ARG:NE	2.73	0.57
34:BM:16:ILE:CD1	34:BM:52:VAL:HG22	2.11	0.57
34:BM:70:LYS:HD2	34:BM:86:PRO:CG	2.33	0.57
35:BN:86:ILE:HD13	35:BN:90:GLN:HG3	1.86	0.57
36:BO:47:ASP:HB3	36:BO:48:PRO:HD2	1.86	0.57
36:BO:47:ASP:CB	36:BO:48:PRO:CD	2.82	0.57
36:BO:52:GLU:HA	36:BO:55:ARG:CG	2.30	0.57
36:BO:54:GLY:O	36:BO:56:SER:N	2.37	0.57
36:BO:72:PRO:HA	36:BO:110:TYR:CD1	2.40	0.57
37:BP:65:PHE:C	37:BP:66:ILE:HD12	2.25	0.57
39:BR:15:ARG:HH21	39:BR:15:ARG:HG2	1.69	0.57
39:BR:51:ALA:HB1	39:BR:73:LEU:CG	2.32	0.57
39:BR:51:ALA:O	39:BR:73:LEU:HD12	2.05	0.57
42:BU:3:ALA:HA	42:BU:44:LYS:NZ	2.20	0.57
43:BV:14:PRO:O	43:BV:15:ARG:C	2.43	0.57
44:BW:12:VAL:C	44:BW:14:SER:H	2.08	0.57
44:BW:15:GLU:CB	44:BW:16:LYS:HE2	2.33	0.57
24:BA:142:G:C4'	44:BW:35:THR:HG21	2.21	0.57
44:BW:36:LYS:O	44:BW:39:ILE:HB	2.05	0.57
46:BY:31:ARG:HG2	46:BY:31:ARG:HH11	1.69	0.57
3:AD:63:G:H2'	3:AD:64:A:C8	2.40	0.57
24:BA:2146:C:N3	24:BA:2147:G:H1'	2.20	0.57
24:BA:2168:G:C2	24:BA:2170:A:H3'	2.40	0.57
26:BC:33:ALA:HB1	26:BC:39:GLU:OE1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:76:ALA:HB2	26:BC:153:ILE:HD11	1.84	0.57
26:BC:81:GLU:OE2	26:BC:82:LYS:HD3	2.05	0.57
1:AA:340:U:C2	1:AA:341:C:C5	2.92	0.57
24:BA:2670:A:C5'	28:BE:206:LYS:NZ	2.68	0.57
1:AA:1257:U:O2'	1:AA:1258:G:C8	2.57	0.57
1:AA:1269:A:H5'	1:AA:1326:C:C4'	2.34	0.57
1:AA:1390:U:C2	1:AA:1391:U:C4	2.92	0.57
1:AA:244:U:O2'	1:AA:245:C:OP2	2.22	0.57
1:AA:263:A:O5'	1:AA:263:A:H8	1.87	0.57
1:AA:434:U:C2	1:AA:435:C:C5	2.92	0.57
1:AA:539:A:OP1	14:AO:114:LYS:NZ	2.38	0.57
4:AE:113:HIS:HA	4:AE:116:GLU:OE2	2.04	0.57
4:AE:17:PHE:HA	4:AE:42:ILE:CG2	2.34	0.57
5:AF:35:GLU:C	5:AF:38:ARG:HG2	2.25	0.57
6:AG:15:GLU:OE2	6:AG:66:ARG:NH1	2.37	0.57
7:AH:13:ILE:CD1	7:AH:13:ILE:N	2.66	0.57
7:AH:80:ILE:CG2	7:AH:142:LEU:HD21	2.34	0.57
1:AA:932:C:H5''	9:AJ:3:ARG:CB	2.35	0.57
10:AK:7:ALA:O	10:AK:10:LEU:HB2	2.04	0.57
1:AA:692:U:O4	13:AN:52:GLY:C	2.43	0.57
13:AN:92:GLU:OE2	13:AN:96:ARG:HB2	2.05	0.57
15:AP:97:PRO:N	15:AP:110:ARG:HG2	2.19	0.57
15:AP:84:ILE:HD11	15:AP:86:CYS:SG	2.44	0.57
16:AQ:18:VAL:HG23	16:AQ:19:ARG:HG3	1.86	0.57
16:AQ:45:ARG:CB	16:AQ:45:ARG:NH1	2.54	0.57
17:AR:35:ARG:HH22	17:AR:59:MET:HE3	1.69	0.57
18:AS:20:VAL:HA	18:AS:36:ILE:HG13	1.85	0.57
19:AT:59:ILE:CG1	19:AT:60:ILE:N	2.67	0.57
20:AU:53:ARG:NH2	20:AU:60:GLY:N	2.50	0.57
49:B2:17:LYS:HA	49:B2:20:LYS:HE2	1.84	0.57
51:B4:4:HIS:NE2	51:B4:5:PRO:HB3	2.20	0.57
54:B7:15:LYS:O	54:B7:22:VAL:CG1	2.50	0.57
24:BA:1087:G:H2'	24:BA:1089:G:C4'	2.34	0.57
24:BA:1153:C:C2	24:BA:1154:G:C8	2.93	0.57
24:BA:1173:G:N2	24:BA:1175:U:OP1	2.37	0.57
24:BA:1366:A:C2	24:BA:1367:A:H1'	2.40	0.57
24:BA:1424:G:C2'	24:BA:1425:G:O5'	2.53	0.57
24:BA:1602:U:OP2	24:BA:1602:U:C4	2.57	0.57
24:BA:1668:A:N1	24:BA:1993:U:C1'	2.59	0.57
24:BA:1771:C:H2'	24:BA:1772:G:C8	2.39	0.57
24:BA:1931:U:C6	24:BA:1932:A:C8	2.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:197:A:C2	24:BA:198:C:H1'	2.39	0.57
24:BA:197:A:C5	24:BA:2430:A:N7	2.73	0.57
24:BA:2043:C:C5	24:BA:2777:G:H1'	2.39	0.57
24:BA:2246:G:C4	24:BA:2426:A:C2	2.93	0.57
24:BA:245:G:N2	24:BA:254:G:C1'	2.68	0.57
24:BA:251:A:H2'	24:BA:252:G:O5'	2.05	0.57
24:BA:2528:U:HO2'	24:BA:2529:G:H8	1.50	0.57
24:BA:252:G:H21	24:BA:253:C:H1'	1.70	0.57
24:BA:2596:U:H2'	27:BD:242:ARG:NH2	2.16	0.57
24:BA:2564:A:C2	24:BA:2647:U:H4'	2.39	0.57
24:BA:2657:A:H2	24:BA:2665:A:H1'	1.58	0.57
24:BA:2674:G:O2'	24:BA:2675:A:H5'	2.05	0.57
24:BA:2675:A:C2	24:BA:2732:G:N2	2.73	0.57
24:BA:2675:A:O2'	24:BA:2676:C:H5'	2.04	0.57
24:BA:2729:G:C2'	24:BA:2730:C:H5'	2.35	0.57
24:BA:516:C:H2'	24:BA:517:C:H6	1.69	0.57
24:BA:547:A:H2'	24:BA:548:A:O4'	2.03	0.57
24:BA:569:U:O4	24:BA:570:G:C6	2.57	0.57
24:BA:724:U:H2'	24:BA:725:G:C5'	2.33	0.57
24:BA:793:A:H2'	24:BA:793:A:N3	2.19	0.57
24:BA:811:U:C3'	24:BA:811:U:C6	2.88	0.57
24:BA:942:G:N1	24:BA:943:U:C4	2.73	0.57
25:BB:66:A:C2	25:BB:108:C:C6	2.92	0.57
25:BB:67:G:C4	25:BB:68:C:C5	2.92	0.57
27:BD:118:VAL:N	27:BD:129:ASN:ND2	2.51	0.57
29:BF:52:LYS:HD2	29:BF:88:VAL:HG23	1.86	0.57
30:BG:6:ALA:O	30:BG:10:LYS:HG2	2.04	0.57
30:BG:138:GLN:HB2	30:BG:155:MET:CE	2.32	0.57
30:BG:153:ARG:O	30:BG:155:MET:SD	2.63	0.57
30:BG:36:LYS:NZ	30:BG:160:VAL:HG23	2.20	0.57
31:BH:135:GLY:HA3	31:BH:141:VAL:HG22	1.87	0.57
31:BH:170:ARG:O	31:BH:171:LEU:HD23	2.04	0.57
32:BK:9:LEU:HB2	32:BK:13:GLY:O	2.05	0.57
33:BL:68:VAL:CB	33:BL:70:LYS:HE3	2.34	0.57
34:BM:31:ALA:O	34:BM:32:THR:C	2.43	0.57
35:BN:10:VAL:HG22	35:BN:11:ALA:N	2.18	0.57
35:BN:34:THR:O	35:BN:61:VAL:HG21	2.05	0.57
35:BN:86:ILE:CG2	35:BN:87:ILE:N	2.68	0.57
36:BO:130:PHE:N	36:BO:130:PHE:CD2	2.71	0.57
36:BO:97:PRO:CA	36:BO:102:ARG:CZ	2.83	0.57
37:BP:56:ARG:O	37:BP:60:ARG:HG3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:873:G:H4'	37:BP:65:PHE:CZ	2.40	0.57
38:BQ:25:ALA:HA	38:BQ:48:VAL:CG2	2.34	0.57
39:BR:68:GLN:O	39:BR:70:GLY:N	2.38	0.57
35:BN:122:LEU:C	40:BS:74:ARG:NH2	2.58	0.57
41:BT:55:ARG:CB	41:BT:58:ARG:HE	2.14	0.57
41:BT:70:ARG:O	41:BT:71:GLN:C	2.43	0.57
41:BT:93:LYS:NZ	41:BT:93:LYS:CA	2.60	0.57
41:BT:89:GLU:OE2	42:BU:52:VAL:HB	2.04	0.57
44:BW:24:GLY:O	44:BW:83:VAL:HG22	2.04	0.57
46:BY:95:PRO:CD	46:BY:131:ARG:HG2	2.34	0.57
46:BY:6:LYS:CG	46:BY:7:ALA:N	2.62	0.57
24:BA:2168:G:N1	24:BA:2171:A:OP2	2.38	0.57
26:BC:22:ILE:HG12	26:BC:189:ILE:HG21	1.87	0.57
24:BA:1511:A:H3'	24:BA:1511:A:H8	1.70	0.57
1:AA:1005:A:H2'	1:AA:1006:C:C5'	2.34	0.57
1:AA:1240:U:O2'	1:AA:1241:G:OP1	2.21	0.57
1:AA:1265:G:C2'	1:AA:1266:G:H5'	2.35	0.57
1:AA:129(A):G:H4'	1:AA:130:A:H5''	1.86	0.57
1:AA:1242:C:HO2'	1:AA:1303:C:H5''	1.64	0.57
1:AA:1364:U:O5'	1:AA:1364:U:H6	1.88	0.57
1:AA:769:G:H5'	1:AA:1513:A:C4'	2.34	0.57
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.05	0.57
1:AA:175:C:O2'	1:AA:176:C:H5'	2.04	0.57
1:AA:237:C:H2'	1:AA:238:G:C8	2.40	0.57
1:AA:389:A:N1	1:AA:390:C:H1'	2.20	0.57
1:AA:453:A:OP2	1:AA:453:A:H8	1.87	0.57
1:AA:575:G:C6	1:AA:821:G:C8	2.93	0.57
1:AA:696:A:C2	1:AA:697:U:O4'	2.58	0.57
1:AA:763:G:C2'	1:AA:764:C:O5'	2.53	0.57
1:AA:792:A:C2'	1:AA:794:A:H62	2.06	0.57
1:AA:843:U:C3'	1:AA:848:C:H5'	2.35	0.57
1:AA:861:G:H2'	1:AA:862:C:H6	1.69	0.57
1:AA:872:A:C6	1:AA:874:G:N7	2.73	0.57
1:AA:978:A:H3'	1:AA:978:A:H8	1.69	0.57
3:AC:14:A:H2'	3:AC:15:G:C8	2.37	0.57
3:AC:5:G:C2	3:AC:69:G:C2	2.92	0.57
4:AE:118:LEU:HD11	4:AE:141:GLU:OE1	2.04	0.57
4:AE:149:LEU:C	4:AE:151:GLY:N	2.56	0.57
4:AE:80:ILE:HD12	4:AE:208:ILE:CG2	2.34	0.57
5:AF:122:GLU:O	5:AF:125:GLU:CB	2.53	0.57
5:AF:142:MET:HA	5:AF:146:ALA:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:25:GLY:N	5:AF:28:GLN:HE22	2.03	0.57
6:AG:141:ARG:HD3	6:AG:142:PRO:CD	2.23	0.57
6:AG:169:LYS:CG	6:AG:176:LEU:HD21	2.34	0.57
6:AG:59:ARG:HB3	6:AG:63:LYS:HZ2	1.69	0.57
7:AH:18:ARG:HB2	7:AH:26:PHE:HA	1.86	0.57
8:AI:37:VAL:HA	8:AI:65:VAL:HG11	1.87	0.57
9:AJ:63:LYS:O	9:AJ:66:VAL:HB	2.05	0.57
10:AK:126:LYS:CE	10:AK:127:LEU:HB2	2.34	0.57
10:AK:7:ALA:HA	10:AK:10:LEU:CG	2.35	0.57
12:AM:29:ARG:HB2	12:AM:84:GLN:HE21	1.69	0.57
12:AM:45:ARG:HG2	12:AM:65:LEU:O	2.04	0.57
12:AM:6:ILE:HD11	12:AM:73:ASP:H	1.70	0.57
12:AM:32:ALA:CB	12:AM:75:ILE:HB	2.34	0.57
14:AO:29:GLY:O	14:AO:30:ALA:O	2.21	0.57
14:AO:46:LYS:HE3	14:AO:47:LYS:HZ1	1.69	0.57
15:AP:102:ARG:C	15:AP:104:ARG:H	2.08	0.57
12:AM:49:VAL:CG2	16:AQ:41:ARG:HB2	2.35	0.57
17:AR:27:VAL:HG12	17:AR:31:LEU:HD22	1.87	0.57
18:AS:23:ASP:CG	18:AS:33:ILE:HD11	2.23	0.57
18:AS:27:LYS:O	18:AS:28:ARG:C	2.41	0.57
19:AT:43:LEU:CD2	19:AT:44:ALA:O	2.53	0.57
20:AU:22:VAL:HG22	20:AU:55:ARG:O	2.05	0.57
20:AU:45:SER:N	20:AU:51:LEU:HD21	2.20	0.57
20:AU:75:ILE:HG22	20:AU:76:LEU:HD22	1.87	0.57
23:AX:9:ARG:O	23:AX:10:ARG:C	2.43	0.57
48:B1:20:VAL:HG21	48:B1:56:LEU:CD1	2.33	0.57
52:B5:17:LYS:HD3	52:B5:17:LYS:H	1.70	0.57
24:BA:1092:C:C6	24:BA:1092:C:C3'	2.87	0.57
24:BA:330:A:H2	24:BA:1210:A:H2'	1.70	0.57
24:BA:123:G:N2	24:BA:124:G:H1'	2.19	0.57
24:BA:1247:A:O2'	24:BA:1248:G:P	2.63	0.57
24:BA:1264:G:OP1	51:B4:15:ARG:NH1	2.35	0.57
24:BA:1272:A:HO2'	24:BA:1273:U:P	2.27	0.57
24:BA:1274:A:C2	24:BA:1302:A:C2	2.91	0.57
24:BA:124:G:OP1	24:BA:1376:C:C1'	2.53	0.57
24:BA:1472:A:C2'	24:BA:1473:G:C8	2.87	0.57
24:BA:14:A:N6	24:BA:15:G:C2	2.71	0.57
24:BA:1272:A:N1	24:BA:1618:A:C2	2.73	0.57
24:BA:786:C:C5'	24:BA:1780:A:C8	2.88	0.57
24:BA:1936:A:H1'	24:BA:1940:U:C4	2.40	0.57
24:BA:1999:C:H2'	24:BA:2000:G:C5'	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2097:C:H2'	24:BA:2098:U:C5'	2.34	0.57
24:BA:2215:G:H2'	24:BA:2216:G:H8	1.69	0.57
24:BA:2253:G:H2'	24:BA:2254:C:C6	2.37	0.57
24:BA:2416:C:H5''	36:BO:59:LEU:CB	2.10	0.57
24:BA:2416:C:C6	24:BA:2416:C:O5'	2.58	0.57
24:BA:242:G:H8	54:B7:4:MET:HG2	1.64	0.57
24:BA:2470:G:N2	24:BA:2471:C:C2	2.72	0.57
24:BA:2585:U:C6	24:BA:2585:U:OP1	2.58	0.57
24:BA:2627:G:C6	24:BA:2777:G:O6	2.57	0.57
24:BA:2736:G:N2	24:BA:2769:C:H1'	2.18	0.57
24:BA:2523:G:C1'	24:BA:2765:A:H62	2.17	0.57
24:BA:2782:G:OP2	24:BA:2782:G:O4'	2.22	0.57
24:BA:281:G:H22	24:BA:283:A:C4'	2.18	0.57
24:BA:2692:C:O2'	24:BA:2847:U:O2'	2.14	0.57
24:BA:2848:G:C2'	40:BS:99:LEU:HD21	2.35	0.57
24:BA:2859:G:O2'	24:BA:2860:A:H5'	2.04	0.57
24:BA:323:G:H4'	24:BA:324:A:O5'	2.04	0.57
24:BA:714:U:H2'	24:BA:715:G:H3'	1.85	0.57
24:BA:763:G:C4	24:BA:765:G:C8	2.93	0.57
24:BA:931:G:C4	49:B2:24:LYS:HE3	2.38	0.57
24:BA:821:A:H8	24:BA:946:G:C5	2.22	0.57
25:BB:104:A:C2'	25:BB:105:G:O4'	2.53	0.57
27:BD:108:PRO:CA	27:BD:195:ALA:O	2.51	0.57
27:BD:208:LYS:HE2	27:BD:211:ARG:CG	2.35	0.57
27:BD:55:GLY:N	27:BD:218:ARG:HD3	2.20	0.57
27:BD:8:PRO:HD2	27:BD:26:LYS:N	2.19	0.57
28:BE:109:LYS:CA	28:BE:191:PRO:HD3	2.35	0.57
28:BE:122:PHE:N	28:BE:122:PHE:CD1	2.72	0.57
28:BE:57:LYS:O	28:BE:58:ARG:HB2	2.04	0.57
31:BH:11:VAL:HG21	31:BH:17:VAL:HG21	1.86	0.57
31:BH:54:ARG:HH11	31:BH:57:ASP:CB	2.18	0.57
34:BM:118:LYS:O	34:BM:121:LYS:HE3	2.03	0.57
34:BM:46:VAL:O	34:BM:47:ALA:CB	2.52	0.57
35:BN:18:LYS:HE2	35:BN:44:LYS:HD2	1.87	0.57
36:BO:123:LEU:HD12	36:BO:130:PHE:CE2	2.40	0.57
37:BP:109:VAL:HG11	37:BP:114:ALA:N	2.20	0.57
38:BQ:6:SER:OG	38:BQ:9:LYS:CE	2.53	0.57
39:BR:41:ASP:CG	39:BR:42:ASP:N	2.54	0.57
39:BR:96:GLY:O	39:BR:97:ARG:C	2.43	0.57
41:BT:89:GLU:O	41:BT:90:VAL:CG2	2.52	0.57
45:BX:97:ARG:CA	45:BX:101:LYS:HG3	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:116:VAL:HG21	46:BY:145:GLU:HA	1.86	0.57
46:BY:10:ARG:O	46:BY:11:GLU:HB2	2.05	0.57
46:BY:17:ALA:HA	46:BY:20:ARG:CZ	2.35	0.57
46:BY:4:ARG:HG2	46:BY:38:TYR:O	2.05	0.57
46:BY:43:GLU:O	46:BY:44:PHE:C	2.43	0.57
25:BB:76:G:H1'	46:BY:75:ASN:ND2	2.20	0.57
32:BK:109:ILE:HG12	32:BK:113:ARG:NH2	2.20	0.57
24:BA:2132:U:O2	24:BA:2132:U:C2'	2.53	0.57
26:BC:223:ARG:HB2	26:BC:223:ARG:NH1	2.19	0.57
24:BA:1484:G:H2'	24:BA:1485:G:H5''	1.85	0.57
1:AA:1089:G:C2'	1:AA:1090:U:H5'	2.34	0.57
1:AA:1144:G:H2'	1:AA:1144:G:N3	2.20	0.57
1:AA:1196:U:O2'	1:AA:1197:G:OP2	2.21	0.57
1:AA:1448:C:C2	1:AA:1459:C:O2	2.58	0.57
1:AA:1455:G:O2'	1:AA:1459:C:H5'	2.05	0.57
1:AA:173:U:C5'	1:AA:197:A:O2'	2.53	0.57
1:AA:176:C:H2'	1:AA:177:C:H6	1.70	0.57
1:AA:33:A:O2'	1:AA:363:A:H1'	2.05	0.57
1:AA:372:C:N3	1:AA:376:G:O6	2.37	0.57
1:AA:406:G:N2	1:AA:407:G:C4	2.73	0.57
1:AA:409:G:OP2	6:AG:22:LYS:HG2	2.04	0.57
1:AA:654:G:H1'	1:AA:753:A:C2	2.40	0.57
1:AA:730:G:C5	1:AA:731:G:H1'	2.39	0.57
1:AA:752:G:OP2	1:AA:752:G:C8	2.58	0.57
1:AA:889:A:H5''	1:AA:890:G:OP1	2.04	0.57
1:AA:1103:C:O2'	4:AE:111:ARG:HD2	2.05	0.57
4:AE:157:ARG:HG2	4:AE:158:LEU:CD2	2.35	0.57
4:AE:15:VAL:HG22	4:AE:209:ARG:CZ	2.34	0.57
4:AE:25:ASN:OD1	4:AE:192:SER:O	2.22	0.57
5:AF:21:ARG:HD2	5:AF:58:GLU:OE2	2.05	0.57
5:AF:55:VAL:HG22	5:AF:68:VAL:CG1	2.32	0.57
6:AG:120:LEU:C	6:AG:120:LEU:HD12	2.25	0.57
6:AG:173:TRP:CA	6:AG:186:LEU:HD12	2.34	0.57
6:AG:98:GLU:OE2	6:AG:103:ASN:OD1	2.22	0.57
1:AA:8:A:H4'	7:AH:102:ALA:HA	1.87	0.57
7:AH:109:ILE:HG23	7:AH:110:LEU:CD2	2.34	0.57
8:AI:50:TYR:CZ	20:AU:77:GLY:HA2	2.39	0.57
9:AJ:23:VAL:HG12	9:AJ:24:THR:N	2.19	0.57
10:AK:18:ARG:N	10:AK:18:ARG:CZ	2.68	0.57
13:AN:84:VAL:CG2	13:AN:111:ASP:H	2.17	0.57
15:AP:2:ALA:O	15:AP:4:ILE:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:90:LEU:HA	15:AP:93:ARG:CB	2.34	0.57
16:AQ:19:ARG:O	16:AQ:20:ALA:C	2.44	0.57
1:AA:1114:C:H1'	16:AQ:60:SER:CB	2.32	0.57
17:AR:63:ARG:NH2	17:AR:87:ILE:HG21	2.19	0.57
19:AT:43:LEU:C	19:AT:43:LEU:CD1	2.66	0.57
1:AA:189:U:H3	19:AT:63:ARG:HE	1.53	0.57
19:AT:7:THR:HG22	19:AT:8:GLY:N	2.18	0.57
21:AV:80:TYR:CE2	21:AV:81:ARG:HD3	2.40	0.57
1:AA:194:C:H5''	22:AW:65:LYS:CD	2.35	0.57
48:B1:19:LEU:HD13	48:B1:19:LEU:C	2.24	0.57
48:B1:42:ASN:O	48:B1:45:ILE:HG23	2.05	0.57
48:B1:48:LEU:HA	48:B1:51:GLN:CD	2.25	0.57
48:B1:20:VAL:CG2	48:B1:55:LEU:HD23	2.34	0.57
49:B2:8:LEU:HB2	49:B2:33:GLN:HB3	1.86	0.57
50:B3:5:ILE:HD13	50:B3:60:GLN:OE1	2.05	0.57
51:B4:12:SER:C	51:B4:14:ALA:N	2.51	0.57
53:B6:35:ARG:HH11	53:B6:35:ARG:HB2	1.69	0.57
24:BA:565:C:O3'	24:BA:1253:A:C2	2.58	0.57
24:BA:1316:U:H5'	24:BA:1392:A:H1'	1.87	0.57
24:BA:1439:A:H2'	24:BA:1440:G:C5'	2.34	0.57
24:BA:1477:A:H3'	24:BA:1478:G:O4'	2.04	0.57
24:BA:781:A:O2'	24:BA:1788:C:O2	2.22	0.57
24:BA:1943:U:O2'	24:BA:1944:U:P	2.63	0.57
24:BA:530:G:H22	24:BA:2021:C:C2'	2.18	0.57
24:BA:2051:A:H3'	24:BA:2578:G:H5''	1.85	0.57
24:BA:2067:G:N1	24:BA:2069:G:C4	2.73	0.57
24:BA:2259:G:O4'	24:BA:2427:C:C6	2.58	0.57
24:BA:2269:A:C2	24:BA:2270:G:C1'	2.88	0.57
24:BA:2298:A:N1	24:BA:2321:G:C6	2.73	0.57
24:BA:2322:A:N3	24:BA:2323:G:H5'	2.19	0.57
24:BA:2333:A:C4'	24:BA:2335:A:O4'	2.52	0.57
24:BA:2623:G:H5'	24:BA:2826:A:C1'	2.33	0.57
24:BA:2661:G:C4	24:BA:2662:A:N7	2.72	0.57
24:BA:1456:G:H1	24:BA:2703:C:H42	1.51	0.57
24:BA:2815:C:O2	24:BA:2816:C:C6	2.57	0.57
24:BA:2815:C:H2'	24:BA:2816:C:H6	1.70	0.57
24:BA:356:G:H3'	24:BA:357:A:C8	2.39	0.57
24:BA:650:C:O2	24:BA:651:G:O4'	2.23	0.57
24:BA:721:C:C2	24:BA:722:A:N7	2.73	0.57
24:BA:740:U:O5'	24:BA:1784:A:N1	2.38	0.57
24:BA:878:A:N9	24:BA:879:G:N7	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:168:ARG:CD	27:BD:173:VAL:HG22	2.29	0.57
24:BA:659:C:H5'	29:BF:102:PRO:HD3	1.87	0.57
29:BF:116:ASP:HA	29:BF:119:ARG:HG3	1.87	0.57
29:BF:156:LEU:CG	29:BF:173:VAL:HG23	2.32	0.57
29:BF:194:MET:SD	29:BF:200:GLU:HG2	2.44	0.57
30:BG:30:GLU:OE2	30:BG:33:ARG:NE	2.36	0.57
31:BH:69:ARG:HH21	31:BH:69:ARG:CG	2.17	0.57
32:BK:34:GLY:N	32:BK:35:LEU:HD22	2.20	0.57
32:BK:4:ILE:HD11	32:BK:39:ALA:H	1.68	0.57
34:BM:10:GLU:O	34:BM:12:ARG:NH2	2.38	0.57
34:BM:67:LEU:HB2	34:BM:88:GLU:OE1	2.05	0.57
37:BP:29:PHE:CD1	37:BP:29:PHE:O	2.56	0.57
37:BP:6:ARG:NH2	37:BP:9:TYR:N	2.53	0.57
39:BR:42:ASP:OD2	39:BR:43:GLU:N	2.38	0.57
40:BS:104:ASN:O	40:BS:108:ARG:NH1	2.38	0.57
42:BU:67:GLY:O	42:BU:92:THR:OG1	2.23	0.57
43:BV:20:VAL:CG1	43:BV:21:VAL:N	2.67	0.57
45:BX:96:ILE:HD12	45:BX:96:ILE:H	1.69	0.57
46:BY:57:ILE:O	46:BY:58:VAL:HG22	2.05	0.57
25:BB:12:C:O4'	47:BZ:74:ARG:HG2	2.05	0.57
24:BA:2134:A:N1	24:BA:2135:A:N1	2.51	0.57
24:BA:2126:A:N7	24:BA:2163:C:H4'	2.19	0.57
26:BC:20:TYR:CE1	26:BC:222:VAL:CG2	2.88	0.57
24:BA:1482:U:H2'	24:BA:1483:G:H4'	1.86	0.57
24:BA:1579:A:H61	24:BA:1581:G:H21	1.53	0.57
43:BV:95:ILE:N	43:BV:95:ILE:HD12	2.15	0.57
24:BA:363(B):G:P	24:BA:363(B):G:H3'	2.45	0.57
24:BA:1563:G:H2'	24:BA:1564:C:C6	2.39	0.57
6:AG:151:LYS:HD2	6:AG:151:LYS:N	2.20	0.57
32:BK:47:LEU:HD11	32:BK:51:ILE:HD11	1.87	0.57
2:A1:39:U:O5'	2:A1:40:U:OP1	2.23	0.56
1:AA:1049:U:O5'	1:AA:1049:U:C6	2.58	0.56
1:AA:1216:G:C4	1:AA:1217:C:C5	2.93	0.56
1:AA:1226:C:O2'	1:AA:1227:A:P	2.62	0.56
1:AA:949:A:C1'	1:AA:1364:U:H3	2.18	0.56
1:AA:1436:U:H2'	1:AA:1437:C:C6	2.38	0.56
1:AA:173:U:H4'	1:AA:197:A:N3	2.20	0.56
1:AA:22:G:C4	1:AA:23:C:C5	2.93	0.56
1:AA:251:G:C2	1:AA:266:G:C6	2.93	0.56
1:AA:366:C:HO2'	1:AA:367:U:P	2.27	0.56
1:AA:409:G:C2	1:AA:410:G:C8	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:533:A:C6	1:AA:536:C:C4	2.93	0.56
1:AA:587:G:N2	1:AA:755:G:C5	2.72	0.56
1:AA:754:C:C2'	1:AA:755:G:OP1	2.53	0.56
1:AA:934:C:N3	1:AA:938:A:N6	2.48	0.56
4:AE:173:ALA:HA	4:AE:176:GLU:CB	2.34	0.56
4:AE:42:ILE:HG12	4:AE:43:ASP:N	2.16	0.56
4:AE:57:PHE:O	4:AE:57:PHE:HD2	1.88	0.56
6:AG:114:ARG:CG	6:AG:114:ARG:HH11	2.17	0.56
6:AG:154:ASN:HD22	6:AG:155:LEU:N	2.02	0.56
6:AG:200:GLU:HG3	6:AG:201:GLN:H	1.67	0.56
6:AG:15:GLU:CG	6:AG:63:LYS:HB3	2.35	0.56
7:AH:142:LEU:H	7:AH:143:ARG:HE	1.52	0.56
7:AH:61:TYR:HA	7:AH:64:ARG:HG3	1.87	0.56
8:AI:42:GLU:HB2	8:AI:61:LEU:HD23	1.87	0.56
8:AI:50:TYR:CZ	8:AI:52:ILE:HD11	2.40	0.56
8:AI:6:VAL:HG12	8:AI:63:TYR:H	1.69	0.56
8:AI:9:VAL:HG13	8:AI:59:TYR:O	2.05	0.56
9:AJ:5:ARG:HB3	9:AJ:5:ARG:HH11	1.68	0.56
11:AL:67:GLY:N	11:AL:73:GLN:HE21	2.03	0.56
18:AS:39:TYR:HD1	18:AS:40:ASP:N	2.02	0.56
20:AU:77:GLY:C	20:AU:79:LEU:HD12	2.25	0.56
21:AV:80:TYR:CE2	21:AV:81:ARG:CD	2.88	0.56
22:AW:25:ARG:O	22:AW:28:ALA:HB3	2.04	0.56
54:B7:39:LYS:N	54:B7:39:LYS:HZ3	2.02	0.56
24:BA:987:G:HO2'	24:BA:1000:A:H1'	1.69	0.56
24:BA:1106:G:H8	24:BA:1106:G:C5'	2.18	0.56
24:BA:1170:G:C2'	24:BA:1170:G:N3	2.68	0.56
24:BA:1205:U:N3	24:BA:1207:C:N4	2.52	0.56
24:BA:1207:C:OP2	24:BA:1207:C:C6	2.58	0.56
24:BA:513:A:O2'	24:BA:1217:C:OP1	2.22	0.56
24:BA:1392:A:C6	24:BA:1393:A:C6	2.92	0.56
24:BA:1471:A:C8	24:BA:1521:G:N1	2.72	0.56
24:BA:1473:G:O2'	24:BA:1474:C:H5'	2.04	0.56
24:BA:1514:U:H2'	24:BA:1514:U:O2	2.03	0.56
24:BA:1526:G:N2	24:BA:1546:C:C4	2.72	0.56
24:BA:1702:G:C5	24:BA:1703:G:N7	2.72	0.56
24:BA:1799:G:C6	27:BD:177:LEU:HD12	2.40	0.56
24:BA:180:G:OP1	53:B6:32:LYS:HD3	2.05	0.56
24:BA:1838:C:C5	24:BA:1899:G:C6	2.93	0.56
24:BA:1905:C:H5'	24:BA:1928:A:H61	1.69	0.56
24:BA:1944:U:O4'	24:BA:1955:U:C6	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1955:U:OP2	24:BA:1956:U:O4	2.22	0.56
24:BA:1957:C:C2	24:BA:1958:C:C5	2.93	0.56
24:BA:1935:G:C1'	24:BA:1964:G:N2	2.68	0.56
24:BA:1982:C:N4	24:BA:1983:C:N4	2.53	0.56
24:BA:1993:U:O2'	24:BA:1994:C:H5'	2.05	0.56
24:BA:2011:U:C2'	24:BA:2012:G:H8	2.18	0.56
24:BA:2323:G:C2	24:BA:2324:C:N3	2.72	0.56
24:BA:246:C:C2	24:BA:247:G:C8	2.93	0.56
24:BA:2552:U:O2	24:BA:2554:U:H5''	2.05	0.56
24:BA:2682:U:C2'	24:BA:2683:C:O5'	2.53	0.56
24:BA:2725:A:O2'	24:BA:2726:U:H6	1.88	0.56
24:BA:2749:A:O3'	31:BH:62:LYS:HE2	2.05	0.56
24:BA:2808:U:O3'	24:BA:2810:A:OP1	2.23	0.56
24:BA:2810:A:H2'	24:BA:2811:G:H5'	1.87	0.56
24:BA:373:U:C2	24:BA:400:G:N2	2.73	0.56
24:BA:629:G:H5'	24:BA:649:G:N3	2.20	0.56
24:BA:641:C:H2'	24:BA:642:G:C5'	2.35	0.56
24:BA:684:G:C2	24:BA:775:G:C6	2.93	0.56
27:BD:232:PRO:HG2	27:BD:247:ALA:C	2.26	0.56
27:BD:64:ILE:O	27:BD:64:ILE:CG2	2.53	0.56
29:BF:103:LYS:HB3	29:BF:107:LYS:CE	2.32	0.56
30:BG:1:MET:C	30:BG:3:LEU:H	2.08	0.56
31:BH:167:GLU:C	31:BH:169:VAL:H	2.08	0.56
31:BH:61:HIS:O	31:BH:64:LEU:HB2	2.05	0.56
32:BK:5:LEU:CD1	32:BK:8:PRO:HB2	2.35	0.56
35:BN:68:GLU:HB2	35:BN:104:ARG:HD2	1.86	0.56
36:BO:81:GLN:CA	36:BO:86:LYS:CG	2.83	0.56
37:BP:102:VAL:HG13	37:BP:104:PHE:CE1	2.40	0.56
37:BP:120:ILE:O	37:BP:124:LYS:CG	2.53	0.56
37:BP:9:TYR:HD2	37:BP:9:TYR:H	1.52	0.56
38:BQ:110:PRO:C	38:BQ:111:LEU:HD23	2.26	0.56
40:BS:32:TYR:CD2	40:BS:88:ILE:HA	2.40	0.56
40:BS:72:VAL:N	40:BS:74:ARG:NH1	2.52	0.56
43:BV:88:ARG:O	43:BV:89:ALA:HB3	2.04	0.56
45:BX:49:VAL:HB	45:BX:51:VAL:HG23	1.86	0.56
47:BZ:1:MET:O	47:BZ:2:ALA:HB3	2.05	0.56
47:BZ:46:LYS:HE3	47:BZ:76:GLY:HA3	1.87	0.56
3:AD:18:G:N1	3:AD:57:G:C2	2.73	0.56
24:BA:2111:C:N4	24:BA:2145:C:C5	2.73	0.56
26:BC:22:ILE:CD1	26:BC:193:ILE:HD11	2.35	0.56
1:AA:1138:G:N1	1:AA:1140:C:C6	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1241:G:H8	1:AA:1241:G:OP2	1.88	0.56
1:AA:1305:G:OP1	23:AX:2:GLY:HA3	2.05	0.56
1:AA:1348:U:O2	1:AA:1349:A:C8	2.57	0.56
1:AA:1361:G:H3'	1:AA:1361:G:H8	1.69	0.56
1:AA:1405:G:C4	1:AA:1406:U:H5	2.23	0.56
1:AA:1430:C:N3	1:AA:1431:C:H5	2.02	0.56
1:AA:1431:C:N4	1:AA:1470:G:C6	2.74	0.56
1:AA:187:C:C4	1:AA:188:U:O2	2.58	0.56
1:AA:560:U:O5'	1:AA:566:G:N2	2.38	0.56
1:AA:571:U:C5'	1:AA:571:U:H6	2.19	0.56
1:AA:738:C:C2	1:AA:739:C:C5	2.93	0.56
1:AA:81:G:H3'	1:AA:82:U:H5''	1.87	0.56
1:AA:952:U:C5'	1:AA:972:C:N4	2.65	0.56
1:AA:993:G:O2'	1:AA:994:A:P	2.63	0.56
3:AC:74:C:H5''	24:BA:2602:A:C3'	2.35	0.56
3:AD:37:A:H3'	3:AD:38:A:H8	1.70	0.56
5:AF:201:TYR:HD1	5:AF:201:TYR:N	2.02	0.56
5:AF:181:ASN:HD21	5:AF:206:GLU:HG2	1.70	0.56
6:AG:190:ASP:O	6:AG:191:ARG:C	2.43	0.56
6:AG:17:VAL:O	6:AG:19:LEU:HD23	2.04	0.56
8:AI:89:MET:CE	20:AU:75:ILE:HG21	2.36	0.56
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CG	2.34	0.56
10:AK:85:ARG:CG	10:AK:85:ARG:NH1	2.66	0.56
11:AL:96:LEU:HD12	11:AL:101:PHE:HE1	1.70	0.56
12:AM:52:GLY:H	12:AM:59:SER:CB	2.18	0.56
13:AN:111:ASP:O	13:AN:112:THR:C	2.43	0.56
18:AS:51:VAL:O	18:AS:52:ASP:C	2.42	0.56
24:BA:988:A:H62	49:B2:13:ILE:CD1	2.18	0.56
24:BA:400:G:O6	50:B3:63:TYR:HE2	1.88	0.56
24:BA:2815:C:C2'	51:B4:42:PRO:HG3	2.34	0.56
52:B5:51:GLU:OE1	52:B5:52:VAL:N	2.38	0.56
53:B6:21:ARG:HH11	53:B6:21:ARG:HB2	1.70	0.56
24:BA:1024:G:OP2	24:BA:1025:G:C2	2.58	0.56
24:BA:1087:G:H2'	24:BA:1089:G:H4'	1.87	0.56
24:BA:116:C:O2'	24:BA:117:G:H5'	2.05	0.56
24:BA:1199:U:OP2	24:BA:1199:U:C6	2.58	0.56
24:BA:1298:C:O2'	24:BA:1302:A:C8	2.58	0.56
24:BA:1366:A:H5''	50:B3:1:MET:H2	1.70	0.56
24:BA:1429:G:C4	24:BA:1568:G:C6	2.92	0.56
24:BA:1645:G:H5''	24:BA:1646:C:H5'	1.86	0.56
24:BA:1656:C:H5''	28:BE:136:ARG:CZ	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1993:U:N1	24:BA:1994:C:C5	2.73	0.56
24:BA:2008:C:O2'	24:BA:2009:G:H5'	2.04	0.56
24:BA:190:A:N6	24:BA:207:A:C8	2.73	0.56
24:BA:209:C:H2'	24:BA:210:C:C5'	2.33	0.56
24:BA:2283:C:C6	24:BA:2389:G:N3	2.73	0.56
24:BA:2290:G:C2	24:BA:2291:U:C2	2.92	0.56
24:BA:2432:A:N1	50:B3:31:ILE:HD13	2.19	0.56
3:AC:76:A:C2	24:BA:2506:U:N3	2.73	0.56
24:BA:2519:U:C6	24:BA:2542:A:N1	2.72	0.56
24:BA:2517:C:C5	24:BA:2542:A:N7	2.73	0.56
24:BA:221:A:N7	24:BA:266:G:C5	2.73	0.56
24:BA:2679:A:C2'	24:BA:2680:C:H5'	2.34	0.56
24:BA:270(V):G:C6	24:BA:270(W):G:O6	2.57	0.56
24:BA:270(X):G:N2	24:BA:270(Y):G:O2'	2.38	0.56
24:BA:2715:C:C2	24:BA:2716:U:C6	2.93	0.56
24:BA:2721:A:C2'	24:BA:2722:G:H8	2.18	0.56
24:BA:2723:C:O2'	38:BQ:2:ARG:CA	2.51	0.56
24:BA:2740:A:N6	24:BA:2741:A:N6	2.52	0.56
24:BA:27:G:N2	24:BA:512:G:C2'	2.69	0.56
24:BA:2815:C:C3'	51:B4:42:PRO:HG3	2.35	0.56
24:BA:448:U:C2'	24:BA:449:A:OP1	2.53	0.56
24:BA:28:A:C8	24:BA:513:A:C6	2.93	0.56
24:BA:513:A:O2'	24:BA:514:A:H5'	2.04	0.56
24:BA:548:A:N7	24:BA:549:G:H1'	2.20	0.56
24:BA:573:G:C2'	24:BA:574:C:O5'	2.53	0.56
24:BA:584:C:H2'	24:BA:585:G:H5'	1.87	0.56
24:BA:769:G:C2	24:BA:770:G:C8	2.93	0.56
24:BA:774:A:O2'	24:BA:775:G:P	2.63	0.56
24:BA:786:C:H5''	24:BA:1780:A:H8	1.70	0.56
24:BA:867:C:N4	24:BA:868:U:C4	2.73	0.56
24:BA:896:A:C2	24:BA:897:C:C5	2.94	0.56
27:BD:183:ARG:HA	27:BD:268:ARG:CA	2.35	0.56
27:BD:46:GLN:NE2	27:BD:51:VAL:HG23	2.19	0.56
28:BE:116:VAL:O	28:BE:117:MET:O	2.22	0.56
24:BA:2512:C:OP1	28:BE:120:TRP:HH2	1.89	0.56
28:BE:131:ALA:CB	28:BE:134:ILE:HG13	2.32	0.56
28:BE:198:VAL:C	28:BE:199:ARG:HD2	2.24	0.56
30:BG:19:LEU:HG	30:BG:22:ARG:NE	2.19	0.56
30:BG:74:LYS:CD	30:BG:87:PRO:HG3	2.30	0.56
33:BL:17:ALA:HB2	33:BL:42:ASN:OD1	2.05	0.56
34:BM:17:ASP:OD1	34:BM:18:ALA:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:67:LEU:HA	34:BM:70:LYS:NZ	2.21	0.56
36:BO:122:PRO:HG3	36:BO:138:LEU:N	2.20	0.56
37:BP:29:PHE:HB2	37:BP:104:PHE:CD2	2.40	0.56
37:BP:104:PHE:O	37:BP:105:GLU:CD	2.43	0.56
38:BQ:96:ARG:CG	38:BQ:98:LEU:CD1	2.83	0.56
39:BR:75:GLU:C	39:BR:78:LEU:HB3	2.25	0.56
24:BA:1151:G:H4'	41:BT:81:HIS:CD2	2.40	0.56
42:BU:12:TYR:HE1	42:BU:14:VAL:HB	1.69	0.56
42:BU:69:LYS:CG	42:BU:70:ILE:HG13	2.31	0.56
42:BU:72:VAL:O	42:BU:73:SER:O	2.23	0.56
42:BU:77:ALA:O	42:BU:84:LYS:HA	2.05	0.56
43:BV:8:ARG:C	43:BV:102:HIS:CD2	2.77	0.56
24:BA:86:C:OP1	45:BX:30:VAL:HG23	2.05	0.56
45:BX:32:PRO:O	45:BX:34:LYS:N	2.37	0.56
47:BZ:32:ARG:CZ	47:BZ:32:ARG:CB	2.83	0.56
26:BC:102:LYS:O	26:BC:105:ASP:HB2	2.05	0.56
26:BC:211:SER:HB2	26:BC:213:TYR:CE1	2.40	0.56
26:BC:60:GLY:O	26:BC:61:THR:CB	2.52	0.56
1:AA:101:A:C4	1:AA:102:G:C8	2.93	0.56
1:AA:132:C:O2'	1:AA:133:U:O5'	2.23	0.56
1:AA:815:A:C5	1:AA:1529:G:C6	2.93	0.56
1:AA:171:A:O2'	1:AA:172:A:H5'	2.05	0.56
1:AA:230:G:H4'	18:AS:25:ARG:NH1	2.20	0.56
1:AA:379:C:H2'	1:AA:380:G:C5'	2.35	0.56
1:AA:37:U:H2'	1:AA:38:G:H5'	1.86	0.56
1:AA:465:A:H5'	1:AA:466:C:OP2	2.06	0.56
1:AA:55:A:C2'	1:AA:56:U:C5'	2.80	0.56
1:AA:682:G:C6	1:AA:683:G:N7	2.73	0.56
1:AA:80:G:H3'	1:AA:81:G:H8	1.70	0.56
1:AA:907:A:C2'	1:AA:908:A:H8	2.16	0.56
3:AC:21:A:C2	3:AC:48:C:C4	2.93	0.56
3:AC:41:C:C2'	3:AC:42:C:O5'	2.53	0.56
3:AD:76:A:C8	24:BA:2432:A:N3	2.74	0.56
4:AE:162:ILE:O	4:AE:185:ILE:CD1	2.53	0.56
4:AE:78:GLN:HE22	4:AE:96:ARG:CZ	2.17	0.56
5:AF:157:ILE:O	5:AF:159:GLY:N	2.38	0.56
6:AG:11:LEU:C	6:AG:19:LEU:HD12	2.25	0.56
6:AG:72:GLU:HA	6:AG:72:GLU:OE1	2.05	0.56
7:AH:43:LEU:HB3	7:AH:136:MET:HE2	1.86	0.56
7:AH:151:LEU:HD21	10:AK:67:PRO:CG	2.34	0.56
7:AH:16:THR:CG2	7:AH:28:PHE:HA	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:100:ASN:O	20:AU:28:GLU:N	2.39	0.56
9:AJ:89:MET:HE2	9:AJ:156:TRP:CD1	2.39	0.56
9:AJ:76:ARG:HH11	9:AJ:89:MET:HG3	1.69	0.56
10:AK:81:HIS:HB3	10:AK:138:TRP:O	2.05	0.56
15:AP:10:PRO:HG3	15:AP:18:ALA:CA	2.35	0.56
16:AQ:33:VAL:O	16:AQ:34:TYR:O	2.23	0.56
16:AQ:55:GLY:O	16:AQ:56:VAL:O	2.23	0.56
19:AT:8:GLY:O	19:AT:56:VAL:CG1	2.53	0.56
20:AU:63:GLN:O	20:AU:67:ALA:CB	2.53	0.56
20:AU:80:PRO:O	20:AU:81:PHE:C	2.44	0.56
48:B1:28:MET:O	48:B1:29:GLU:C	2.44	0.56
49:B2:10:LYS:CE	49:B2:31:LEU:HD21	2.30	0.56
50:B3:56:VAL:HB	50:B3:61:ARG:NE	2.20	0.56
50:B3:5:ILE:C	50:B3:7:PRO:HD2	2.25	0.56
54:B7:40:GLU:O	54:B7:43:GLN:OE1	2.23	0.56
24:BA:1035:U:H2'	24:BA:1036:G:O4'	2.05	0.56
24:BA:1152:C:H4'	41:BT:80:ILE:HG21	1.87	0.56
24:BA:1227:A:C3'	24:BA:1228:G:H5''	2.36	0.56
24:BA:1223:C:C4	24:BA:1227:A:N1	2.73	0.56
24:BA:1310:G:H2'	24:BA:1311:G:O4'	2.05	0.56
24:BA:1324:G:H1'	24:BA:1616:A:H61	1.67	0.56
24:BA:1523:U:N3	24:BA:1524:G:N7	2.54	0.56
24:BA:1654:A:HO2'	28:BE:113:PHE:HD1	1.52	0.56
24:BA:1904:G:C2'	24:BA:1905:C:O5'	2.53	0.56
24:BA:1941:C:O2	24:BA:1941:C:C2'	2.52	0.56
24:BA:1942:C:P	24:BA:1943:U:H3'	2.46	0.56
24:BA:1995:U:C5'	24:BA:1996:C:C5'	2.65	0.56
24:BA:2026:C:C2'	24:BA:2027:G:H5'	2.35	0.56
24:BA:2075:U:O2	24:BA:2076:U:H5'	2.04	0.56
24:BA:2194:G:H2'	24:BA:2194:G:N3	2.19	0.56
24:BA:2284:C:C5'	52:B5:9:LEU:HG	2.36	0.56
24:BA:2322:A:N3	24:BA:2322:A:H2'	2.20	0.56
24:BA:2450:A:C2'	24:BA:2451:A:H5'	2.35	0.56
24:BA:2519:U:OP1	24:BA:2519:U:H3'	2.05	0.56
24:BA:2601:C:O2	24:BA:2603:G:N7	2.38	0.56
24:BA:2690:C:HO2'	24:BA:2691:C:P	2.29	0.56
24:BA:2706:G:C2	24:BA:2707:G:C5	2.93	0.56
24:BA:270(B):A:O2'	24:BA:270(C):C:H6	1.86	0.56
24:BA:2781:A:H5'	24:BA:2781:A:H8	1.71	0.56
24:BA:2856:C:O2'	24:BA:2857:G:H5'	2.05	0.56
24:BA:2866:U:H4'	24:BA:2867:G:O5'	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2869:G:C6	24:BA:2870:C:C4	2.92	0.56
24:BA:455:C:O4'	24:BA:455:C:P	2.63	0.56
24:BA:558:G:O5'	34:BM:109:LYS:HD3	2.04	0.56
24:BA:564:C:H42	24:BA:578:A:N6	2.02	0.56
24:BA:585:G:N2	24:BA:1256:G:C6	2.74	0.56
24:BA:784:A:H62	24:BA:792:G:N2	2.01	0.56
24:BA:942:G:C5'	36:BO:32:THR:HG22	2.35	0.56
24:BA:957:A:O3'	24:BA:958:U:C4'	2.50	0.56
25:BB:116:G:C6	25:BB:117:G:C4	2.93	0.56
25:BB:9:G:C2	25:BB:10:C:C4	2.94	0.56
27:BD:198:ASN:ND2	27:BD:201:HIS:HB2	2.19	0.56
24:BA:1791:A:H4'	27:BD:206:LEU:CD2	2.34	0.56
24:BA:2227:A:N3	27:BD:262:ARG:NH1	2.53	0.56
24:BA:1813:G:C4'	27:BD:46:GLN:HB2	2.29	0.56
29:BF:8:GLN:HB3	29:BF:18:ARG:HA	1.87	0.56
30:BG:57:ALA:CA	30:BG:68:PRO:HD2	2.29	0.56
31:BH:118:PRO:CD	31:BH:121:ILE:HG21	2.35	0.56
31:BH:69:ARG:CG	31:BH:70:THR:H	2.18	0.56
31:BH:88:LEU:HD21	31:BH:90:LYS:HB3	1.87	0.56
34:BM:15:LEU:CD1	34:BM:137:LYS:HB3	2.35	0.56
34:BM:2:LYS:O	34:BM:3:THR:O	2.24	0.56
34:BM:33:LEU:HD22	34:BM:33:LEU:O	2.05	0.56
24:BA:1665:A:O3'	35:BN:1:MET:N	2.38	0.56
35:BN:8:LEU:HD22	35:BN:81:ASP:O	2.05	0.56
37:BP:119:ARG:O	37:BP:123:HIS:HB2	2.05	0.56
24:BA:958:U:O4	37:BP:19:GLY:O	2.23	0.56
38:BQ:96:ARG:NH2	38:BQ:117:VAL:HG23	2.20	0.56
39:BR:79:ALA:O	39:BR:80:LEU:C	2.44	0.56
41:BT:112:ARG:NH2	42:BU:49:THR:HG22	2.16	0.56
41:BT:52:ARG:O	41:BT:54:LYS:N	2.38	0.56
41:BT:63:VAL:O	41:BT:65:ILE:N	2.38	0.56
42:BU:18:LEU:O	42:BU:20:LEU:N	2.38	0.56
42:BU:43:GLU:C	42:BU:44:LYS:HD3	2.25	0.56
43:BV:28:SER:HA	43:BV:70:TYR:CA	2.28	0.56
43:BV:88:ARG:NE	43:BV:88:ARG:CA	2.65	0.56
44:BW:15:GLU:HG3	44:BW:16:LYS:N	2.19	0.56
44:BW:55:ASN:ND2	44:BW:55:ASN:N	2.48	0.56
45:BX:2:ARG:HD2	45:BX:3:VAL:CB	2.35	0.56
46:BY:176:PRO:HB2	46:BY:179:ASP:N	2.19	0.56
24:BA:2277:G:N7	47:BZ:14:ARG:HG3	2.21	0.56
47:BZ:43:THR:O	47:BZ:43:THR:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1000:A:C2	1:AA:1001:G:N7	2.74	0.56
1:AA:1160:G:C2	1:AA:1161:C:C6	2.93	0.56
1:AA:1187:G:H2'	1:AA:1188:A:C8	2.40	0.56
1:AA:1321:C:C5	1:AA:1322:C:H3'	2.40	0.56
1:AA:1419:G:H2'	1:AA:1420:C:C6	2.39	0.56
1:AA:256:U:O5'	1:AA:256:U:H6	1.87	0.56
1:AA:517:G:H5''	1:AA:518:C:OP1	2.06	0.56
1:AA:589:C:N4	1:AA:590:C:N4	2.53	0.56
1:AA:597:G:C2'	1:AA:598:U:H5'	2.35	0.56
1:AA:722:A:O3'	1:AA:723:U:C4	2.59	0.56
1:AA:935:A:H2'	1:AA:936:C:C6	2.41	0.56
1:AA:970:C:H4'	1:AA:972:C:C5	2.40	0.56
3:AB:9:A:N3	3:AB:45:U:O2	2.38	0.56
3:AC:70:G:C2	3:AC:71:G:C8	2.94	0.56
4:AE:19:HIS:CE1	4:AE:204:ASN:ND2	2.73	0.56
4:AE:208:ILE:HG13	4:AE:211:ILE:HD12	1.87	0.56
5:AF:151:VAL:CG1	5:AF:152:ILE:N	2.67	0.56
6:AG:105:VAL:HG21	6:AG:121:VAL:HG21	1.87	0.56
6:AG:13:ARG:CB	6:AG:40:PRO:HD3	2.35	0.56
6:AG:157:LEU:O	6:AG:158:ILE:C	2.43	0.56
6:AG:26:CYS:O	6:AG:33:MET:SD	2.63	0.56
7:AH:122:GLU:HG2	7:AH:126:ARG:HG3	1.85	0.56
7:AH:70:PRO:CB	7:AH:143:ARG:HA	2.31	0.56
9:AJ:43:PHE:HD2	9:AJ:44:TYR:CD2	2.23	0.56
10:AK:123:GLU:O	10:AK:126:LYS:HE3	2.04	0.56
10:AK:26:VAL:HG13	10:AK:27:PRO:CD	2.35	0.56
10:AK:36:LEU:N	10:AK:36:LEU:HD23	2.10	0.56
10:AK:69:ARG:NH1	10:AK:74:PRO:O	2.38	0.56
1:AA:942:G:N2	11:AL:124:GLN:OE1	2.38	0.56
1:AA:1248:A:O2'	11:AL:36:TYR:CE1	2.57	0.56
12:AM:8:LEU:HD13	12:AM:94:VAL:CG1	2.22	0.56
15:AP:23:TYR:HE2	15:AP:70:LEU:CD2	2.16	0.56
15:AP:77:ASN:O	15:AP:80:ARG:NH1	2.38	0.56
1:AA:1309:G:OP2	15:AP:99:ARG:NH2	2.38	0.56
17:AR:60:VAL:HA	17:AR:63:ARG:CD	2.34	0.56
18:AS:58:TYR:CD1	18:AS:59:TRP:N	2.73	0.56
19:AT:43:LEU:HD11	19:AT:69:LYS:CG	2.35	0.56
19:AT:59:ILE:CD1	19:AT:72:ARG:O	2.49	0.56
21:AV:22:LEU:C	21:AV:24:ALA:H	2.07	0.56
21:AV:80:TYR:CG	21:AV:81:ARG:N	2.73	0.56
22:AW:53:LEU:O	22:AW:54:LYS:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:57:ARG:O	22:AW:58:LYS:C	2.44	0.56
24:BA:396:G:H1'	50:B3:39:CYS:SG	2.46	0.56
24:BA:2284:C:H3'	52:B5:27:LYS:NZ	2.19	0.56
24:BA:1022:G:O2'	24:BA:1023:U:O5'	2.23	0.56
24:BA:1139:G:H8	24:BA:1139:G:O5'	1.88	0.56
24:BA:1188:U:C2'	24:BA:1188:U:O2	2.52	0.56
24:BA:1237:A:O2'	24:BA:1238:G:P	2.63	0.56
24:BA:1338:G:H21	24:BA:1393:A:H2	1.54	0.56
24:BA:1451:C:H5''	24:BA:1453:A:O2'	2.05	0.56
24:BA:1566:A:HO2'	24:BA:1567:A:P	2.27	0.56
24:BA:1591:G:H2'	24:BA:1592:C:C6	2.40	0.56
24:BA:1592:C:H2'	24:BA:1593:G:C8	2.33	0.56
24:BA:1717:G:N2	24:BA:1718:G:H1'	2.19	0.56
24:BA:1754:C:C5	40:BS:98:LYS:NZ	2.74	0.56
24:BA:1928:A:C2'	24:BA:1929:G:H5'	2.35	0.56
24:BA:1967:C:O2	24:BA:1967:C:C2'	2.53	0.56
24:BA:1992:G:H4'	24:BA:1993:U:C5	2.40	0.56
24:BA:2062:A:H2'	24:BA:2063:C:OP1	2.05	0.56
24:BA:2097:C:H2'	24:BA:2098:U:O4'	2.04	0.56
24:BA:2286:A:H4'	24:BA:2287:A:N3	2.20	0.56
24:BA:2289:G:O2'	24:BA:2383:G:H1'	2.05	0.56
24:BA:239:U:C1'	24:BA:259:G:H22	2.17	0.56
24:BA:2438:U:O2	24:BA:2441:C:C5	2.58	0.56
24:BA:246:C:O2'	24:BA:385:C:H4'	2.05	0.56
24:BA:2716:U:C2'	24:BA:2717:G:O5'	2.53	0.56
24:BA:2715:C:O2'	24:BA:2716:U:H5'	2.05	0.56
24:BA:2747:G:N2	24:BA:2748:A:N6	2.54	0.56
24:BA:2779:U:H5''	24:BA:2780:G:H3'	1.87	0.56
24:BA:2824:C:N4	24:BA:2825:C:C2	2.73	0.56
24:BA:2691:C:O4'	24:BA:2872:G:O6	2.23	0.56
24:BA:297:C:N4	24:BA:298:G:N2	2.54	0.56
24:BA:392:C:C5'	24:BA:409:C:H5''	2.34	0.56
24:BA:76:C:O2'	24:BA:77:C:H5'	2.05	0.56
24:BA:811:U:O5'	24:BA:811:U:H6	1.86	0.56
24:BA:975:G:H2'	24:BA:975:G:N3	2.20	0.56
24:BA:988:A:C2	24:BA:989:G:N2	2.73	0.56
25:BB:68:C:H2'	25:BB:69:G:O4'	2.04	0.56
27:BD:14:ARG:C	27:BD:15:PHE:CD1	2.79	0.56
27:BD:151:LYS:O	27:BD:152:GLY:O	2.23	0.56
27:BD:148:GLU:HA	27:BD:186:HIS:HE1	1.70	0.56
24:BA:2823:A:OP2	28:BE:113:PHE:CE1	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:120:TRP:C	28:BE:120:TRP:CD1	2.77	0.56
28:BE:173:VAL:HG13	28:BE:183:LEU:O	2.05	0.56
29:BF:123:LEU:HG	29:BF:191:ARG:HD3	1.86	0.56
29:BF:158:THR:CG2	29:BF:159:GLY:N	2.69	0.56
30:BG:97:ASP:O	30:BG:98:ARG:C	2.43	0.56
31:BH:6:ARG:HD3	31:BH:69:ARG:HD3	1.87	0.56
31:BH:7:LEU:N	31:BH:8:PRO:HD2	2.17	0.56
31:BH:87:LEU:HD21	31:BH:162:ILE:CG1	2.35	0.56
32:BK:7:GLU:HA	32:BK:14:ASP:OD2	2.05	0.56
34:BM:100:GLU:O	34:BM:104:LYS:HG2	2.04	0.56
34:BM:96:GLU:N	34:BM:96:GLU:OE2	2.38	0.56
35:BN:73:ASP:HB3	40:BS:79:HIS:CD2	2.39	0.56
36:BO:93:GLY:O	36:BO:102:ARG:NH2	2.39	0.56
36:BO:90:ARG:CA	36:BO:125:VAL:HG22	2.36	0.56
37:BP:115:MET:HA	37:BP:118:LEU:HD11	1.87	0.56
37:BP:54:MET:HB2	37:BP:64:ILE:HD13	1.86	0.56
37:BP:85:LYS:O	37:BP:87:LYS:N	2.38	0.56
37:BP:93:TYR:CD1	37:BP:93:TYR:N	2.73	0.56
38:BQ:17:ARG:CB	38:BQ:17:ARG:NH1	2.69	0.56
38:BQ:74:LYS:CA	38:BQ:77:ARG:HH22	2.17	0.56
39:BR:69:VAL:O	39:BR:73:LEU:CD1	2.47	0.56
40:BS:57:PHE:C	40:BS:58:ASN:ND2	2.58	0.56
40:BS:76:PHE:HZ	40:BS:78:LEU:CD1	2.18	0.56
40:BS:45:PHE:HE1	40:BS:86:ILE:HG22	1.70	0.56
41:BT:26:GLY:O	41:BT:27:LEU:HB2	2.06	0.56
41:BT:81:HIS:O	41:BT:117:GLN:NE2	2.38	0.56
41:BT:61:TRP:HZ3	41:BT:94:ASN:N	2.04	0.56
42:BU:41:GLY:N	42:BU:51:VAL:HG22	2.20	0.56
43:BV:5:ALA:CB	43:BV:54:ALA:HB2	2.24	0.56
24:BA:484:C:OP1	45:BX:48:ALA:HB1	2.04	0.56
45:BX:81:LYS:HD3	45:BX:96:ILE:CG1	2.36	0.56
26:BC:161:ILE:HG22	26:BC:174:PRO:HG2	1.87	0.56
3:AD:57:G:O5'	3:AD:57:G:H8	1.88	0.56
24:BA:2168:G:N3	24:BA:2170:A:C8	2.74	0.56
24:BA:2171:A:O2'	24:BA:2172:U:O5'	2.22	0.56
26:BC:8:ARG:HH11	26:BC:11:LEU:CD2	2.16	0.56
1:AA:337:C:N4	1:AA:338:A:N6	2.54	0.56
24:BA:1417:C:O3'	24:BA:1588:C:H1'	2.05	0.56
3:AD:40:C:H2'	3:AD:40:C:O2	2.04	0.56
3:AD:44:G:C2'	3:AD:45:U:H5'	2.36	0.56
1:AA:511:C:O2'	1:AA:512:U:O4'	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:772:U:C2	1:AA:773:G:C8	2.94	0.56
31:BH:20:ALA:HB1	31:BH:21:PRO:HD3	1.87	0.56
2:A1:39:U:H5''	2:A1:40:U:H5'	1.86	0.56
1:AA:1002:G:C6	1:AA:1003:G:O6	2.59	0.56
1:AA:1054:C:H2'	1:AA:1055:A:C5'	2.30	0.56
1:AA:1315:U:H6	1:AA:1315:U:O5'	1.87	0.56
1:AA:1499:A:C5	1:AA:1500:A:N7	2.74	0.56
1:AA:1526:G:H2'	1:AA:1527:C:C6	2.41	0.56
1:AA:19:C:N3	1:AA:20:U:C5	2.73	0.56
1:AA:241:C:H2'	1:AA:242:C:O5'	2.04	0.56
1:AA:261:U:C2'	1:AA:263:A:OP 2	2.52	0.56
1:AA:541:G:O4'	6:AG:42:GLN:NE2	2.36	0.56
1:AA:782:A:N6	1:AA:801:U:C6	2.74	0.56
1:AA:22:G:H4'	1:AA:885:G:C8	2.41	0.56
1:AA:922:G:N3	1:AA:1398:A:H2	2.02	0.56
3:AB:36:A:N6	3:AB:37:A:N6	2.53	0.56
3:AC:65:G:H2'	3:AC:66:U:C6	2.40	0.56
4:AE:97:TRP:HE1	4:AE:101:MET:CE	2.18	0.56
4:AE:52:GLU:OE1	4:AE:53:ARG:HB2	2.06	0.56
4:AE:56:ARG:HD2	4:AE:56:ARG:C	2.26	0.56
5:AF:33:LEU:HD23	5:AF:36:ASP:OD1	2.05	0.56
5:AF:34:LEU:O	5:AF:38:ARG:HD3	2.06	0.56
5:AF:46:GLU:C	5:AF:47:LEU:HD22	2.26	0.56
6:AG:100:ARG:CZ	6:AG:137:SER:HA	2.34	0.56
6:AG:121:VAL:HB	6:AG:136:PRO:CG	2.18	0.56
6:AG:4:TYR:CG	6:AG:5:ILE:N	2.74	0.56
6:AG:58:LEU:O	6:AG:58:LEU:HD22	2.06	0.56
6:AG:78:LEU:O	6:AG:81:GLU:N	2.39	0.56
7:AH:72:GLN:NE2	7:AH:145:LYS:H	2.02	0.56
8:AI:75:LEU:O	8:AI:78:GLU:N	2.38	0.56
9:AJ:109:ASN:O	9:AJ:119:ARG:NE	2.38	0.56
9:AJ:50:ILE:HB	9:AJ:51:GLN:OE1	2.06	0.56
12:AM:27:ALA:CB	12:AM:85:LEU:HD21	2.35	0.56
17:AR:16:ALA:O	17:AR:17:ARG:C	2.44	0.56
17:AR:62:GLN:CD	17:AR:65:ARG:NH2	2.59	0.56
1:AA:376:G:OP1	18:AS:5:ARG:HB2	2.05	0.56
20:AU:40:LEU:N	20:AU:40:LEU:HD23	2.20	0.56
22:AW:89:ARG:HH21	22:AW:104:LEU:HD22	1.70	0.56
22:AW:63:ILE:HG22	22:AW:64:ASP:N	2.21	0.56
22:AW:79:ARG:O	22:AW:80:ARG:C	2.42	0.56
36:BO:45:LEU:CD1	54:B7:59:LYS:HZ1	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1174:A:H2'	24:BA:1175:U:C5'	2.20	0.56
24:BA:124:G:N1	53:B6:19:ARG:NH2	2.53	0.56
24:BA:1303:G:N7	24:BA:1304:C:C4	2.73	0.56
24:BA:1324:G:O2'	24:BA:1325:G:OP1	2.22	0.56
24:BA:1341:U:H2'	24:BA:1342:A:OP1	2.04	0.56
24:BA:1360:A:N6	24:BA:1371:G:H1'	2.20	0.56
24:BA:1520:U:C6	24:BA:1520:U:OP2	2.58	0.56
24:BA:1614:A:N3	24:BA:1614:A:C3'	2.65	0.56
24:BA:1655:A:H3'	24:BA:1656:C:H6	1.70	0.56
24:BA:1699:G:H2'	24:BA:1763:G:H22	1.69	0.56
24:BA:1799:G:C2'	24:BA:1800:C:O5'	2.54	0.56
24:BA:1810:A:C2'	24:BA:1811:G:H5'	2.32	0.56
24:BA:1861:G:H4'	26:BC:205:LYS:HZ1	1.69	0.56
24:BA:1926:U:H3	24:BA:1929:G:N2	2.03	0.56
24:BA:1999:C:N3	24:BA:2000:G:C8	2.73	0.56
24:BA:203:C:H3'	24:BA:204:A:C8	2.36	0.56
24:BA:2208:U:C2'	24:BA:2209:C:H5'	2.35	0.56
24:BA:223:A:O2'	24:BA:420:C:H1'	2.06	0.56
24:BA:2259:G:N2	24:BA:2282:G:C5	2.74	0.56
24:BA:2278:A:N7	47:BZ:14:ARG:CB	2.68	0.56
24:BA:2283:C:N3	24:BA:2389:G:N2	2.53	0.56
24:BA:2352:A:C2	47:BZ:34:GLY:HA3	2.40	0.56
24:BA:2472:G:O5'	24:BA:2472:G:C8	2.57	0.56
24:BA:2487:G:H2'	24:BA:2488:A:H8	1.70	0.56
24:BA:2759:G:C6	24:BA:2760:C:C5	2.93	0.56
24:BA:2850:A:C2	38:BQ:61:HIS:CE1	2.93	0.56
24:BA:2853:C:H2'	24:BA:2854:G:C8	2.39	0.56
24:BA:2885:C:N3	24:BA:2886:G:H1'	2.20	0.56
24:BA:296:C:H6	24:BA:338:G:N2	2.03	0.56
24:BA:449:A:C2'	24:BA:450:G:O4'	2.53	0.56
24:BA:535:C:O2'	41:BT:53:ARG:HG2	2.06	0.56
24:BA:636:G:O6	36:BO:111:ARG:NH1	2.24	0.56
24:BA:673:C:C2'	24:BA:674:G:C5'	2.80	0.56
24:BA:808:G:H2'	24:BA:809:G:H8	1.70	0.56
24:BA:955:C:P	37:BP:17:LEU:HD23	2.45	0.56
25:BB:51:G:OP1	39:BR:60:GLY:C	2.43	0.56
27:BD:90:ALA:O	27:BD:91:ARG:O	2.23	0.56
29:BF:31:HIS:CB	36:BO:11:GLY:H	2.18	0.56
30:BG:119:GLY:HA3	30:BG:180:PHE:CG	2.40	0.56
31:BH:107:VAL:HG13	31:BH:152:ARG:CD	2.35	0.56
31:BH:121:ILE:HG13	31:BH:133:VAL:CG2	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:18:THR:HA	33:BL:38:VAL:CG2	2.27	0.56
34:BM:95:PRO:HG2	34:BM:96:GLU:H	1.69	0.56
34:BM:99:LEU:HG	34:BM:100:GLU:H	1.70	0.56
35:BN:106:LEU:HA	35:BN:111:PHE:HE1	1.71	0.56
35:BN:7:TYR:CB	35:BN:18:LYS:CE	2.83	0.56
35:BN:31:LYS:C	35:BN:32:TYR:CG	2.78	0.56
35:BN:89:ASN:HD22	35:BN:91:LEU:CB	2.19	0.56
36:BO:16:ARG:C	36:BO:16:ARG:HD2	2.24	0.56
24:BA:943:U:P	36:BO:32:THR:HB	2.45	0.56
36:BO:7:ARG:HD3	36:BO:8:PRO:HD3	1.88	0.56
37:BP:36:ALA:HA	37:BP:129:THR:CG2	2.35	0.56
37:BP:134:ARG:NE	37:BP:137:TYR:CA	2.64	0.56
38:BQ:73:VAL:HB	38:BQ:77:ARG:NH2	2.19	0.56
38:BQ:83:ILE:O	38:BQ:86:ARG:N	2.38	0.56
38:BQ:86:ARG:NH1	38:BQ:87:TYR:HE2	2.03	0.56
39:BR:95:HIS:CG	39:BR:96:GLY:N	2.73	0.56
40:BS:17:THR:HG21	40:BS:20:PRO:HG3	1.88	0.56
40:BS:22:PHE:O	40:BS:24:PRO:HD3	2.04	0.56
42:BU:28:GLU:N	42:BU:29:PRO:CD	2.67	0.56
43:BV:7:ALA:O	43:BV:102:HIS:HA	2.05	0.56
44:BW:26:TYR:HB2	44:BW:28:PHE:HZ	1.70	0.56
44:BW:52:VAL:O	44:BW:82:GLN:HB3	2.06	0.56
45:BX:1:MET:HG2	45:BX:33:LYS:CD	2.36	0.56
45:BX:88:LYS:HG2	45:BX:89:PHE:N	2.21	0.56
46:BY:40:ASP:O	46:BY:44:PHE:CD1	2.59	0.56
46:BY:78:LYS:CG	46:BY:79:ARG:H	2.13	0.56
32:BK:66:GLU:HB3	32:BK:69:LYS:HZ3	1.70	0.56
3:AD:8:U:C5	3:AD:13:C:N4	2.73	0.56
26:BC:181:PRO:O	26:BC:185:LEU:HG	2.04	0.56
26:BC:33:ALA:CB	26:BC:39:GLU:OE1	2.54	0.56
24:BA:1418:G:OP2	24:BA:1418:G:H8	1.89	0.56
24:BA:2:G:C2	24:BA:3:U:C2	2.94	0.56
38:BQ:60:LEU:CD2	38:BQ:60:LEU:H	2.19	0.56
6:AG:151:LYS:HD2	6:AG:151:LYS:H	1.71	0.56
1:AA:1537:U:C2	1:AA:1538:C:C6	2.94	0.56
14:AO:16:GLU:O	14:AO:17:LYS:HB3	2.04	0.56
2:A1:52:U:H4'	6:AG:50:ARG:CB	2.34	0.56
1:AA:1002:G:N2	1:AA:1039:C:C4	2.74	0.56
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.70	0.56
1:AA:1241:G:O2'	1:AA:1242:C:H5'	2.06	0.56
1:AA:1313:U:C4	21:AV:4:SER:HB2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1396:A:C2'	1:AA:1397:C:OP2	2.52	0.56
1:AA:1481:U:H2'	1:AA:1482:G:N7	2.21	0.56
1:AA:225:C:H2'	1:AA:226:G:O5'	2.04	0.56
1:AA:41:G:C4	1:AA:42:G:C8	2.94	0.56
1:AA:484:G:O4'	1:AA:486:U:C6	2.58	0.56
1:AA:501:C:H2'	1:AA:502:G:C8	2.41	0.56
1:AA:607:A:C5	1:AA:608:A:C8	2.93	0.56
1:AA:5:U:O2'	1:AA:6:G:OP2	2.22	0.56
1:AA:748:C:H6	1:AA:748:C:H3'	1.67	0.56
1:AA:758:G:C2'	1:AA:759:A:OP2	2.54	0.56
1:AA:570:G:O2'	1:AA:819:A:H8	1.85	0.56
3:AB:8:U:H5'	3:AB:9:A:OP1	2.06	0.56
4:AE:150:SER:O	4:AE:151:GLY:C	2.44	0.56
5:AF:200:ALA:C	5:AF:201:TYR:CD1	2.79	0.56
5:AF:24:ALA:HB2	5:AF:32:LEU:CD1	2.35	0.56
6:AG:120:LEU:HG	6:AG:121:VAL:N	2.21	0.56
6:AG:166:LYS:HA	6:AG:178:VAL:HG11	1.86	0.56
8:AI:42:GLU:HG3	8:AI:44:GLY:H	1.70	0.56
8:AI:57:GLN:OE1	8:AI:57:GLN:N	2.37	0.56
9:AJ:64:GLN:O	9:AJ:68:ASN:ND2	2.38	0.56
10:AK:45:ILE:O	10:AK:45:ILE:HG12	2.06	0.56
10:AK:46:LYS:HE3	10:AK:64:LYS:CG	2.27	0.56
11:AL:97:LYS:NZ	11:AL:102:LEU:HD22	2.21	0.56
11:AL:37:PHE:CE1	11:AL:74:ILE:HG12	2.41	0.56
11:AL:58:HIS:HD2	11:AL:59:PHE:CE1	2.23	0.56
1:AA:718:G:C4'	13:AN:117:ASN:HD21	2.17	0.56
14:AO:97:ARG:C	14:AO:98:TYR:CD1	2.79	0.56
14:AO:68:ALA:CB	14:AO:98:TYR:O	2.54	0.56
15:AP:20:THR:HG23	15:AP:26:GLY:HA2	1.87	0.56
15:AP:2:ALA:O	15:AP:4:ILE:HD12	2.04	0.56
16:AQ:41:ARG:HA	16:AQ:44:LEU:CD2	2.35	0.56
5:AF:6:HIS:HB3	16:AQ:49:HIS:ND1	2.20	0.56
17:AR:81:LEU:HD23	17:AR:81:LEU:C	2.25	0.56
18:AS:39:TYR:CE1	18:AS:41:PRO:HG3	2.40	0.56
1:AA:474:G:O5'	18:AS:81:ARG:HA	2.06	0.56
20:AU:79:LEU:N	20:AU:79:LEU:HD12	2.20	0.56
50:B3:13:ARG:O	50:B3:14:ILE:CG1	2.50	0.56
24:BA:1020:A:O2'	24:BA:1021:A:C8	2.58	0.56
24:BA:1060:U:H5''	24:BA:1061:U:N3	2.19	0.56
24:BA:1264:G:H3'	24:BA:1264:G:H8	1.71	0.56
24:BA:1355:G:N2	24:BA:1377:G:N3	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1528:A:H5'	24:BA:1529:A:OP2	2.06	0.56
24:BA:1635:G:C2'	24:BA:1636:C:H5'	2.36	0.56
24:BA:1299:G:C6	24:BA:1639:U:H5''	2.41	0.56
24:BA:1699:G:O2'	24:BA:1700:A:P	2.63	0.56
24:BA:1729:A:H3'	24:BA:1730:U:C6	2.40	0.56
24:BA:764:A:C6	24:BA:1789:A:H2	2.24	0.56
1:AA:1517:G:C8	24:BA:1920:C:OP1	2.57	0.56
24:BA:2226:C:O2	27:BD:262:ARG:CZ	2.54	0.56
24:BA:2373:G:C6	24:BA:2374:C:N4	2.73	0.56
24:BA:2587:A:HO2'	24:BA:2588:G:H5'	1.70	0.56
24:BA:239:U:C1'	24:BA:259:G:N2	2.67	0.56
24:BA:26:G:N2	24:BA:27:G:N2	2.53	0.56
24:BA:2840:C:O2'	24:BA:2841:C:H5'	2.05	0.56
24:BA:331:A:C2	24:BA:1209:G:C6	2.93	0.56
24:BA:354:G:H3'	24:BA:354:G:OP2	2.05	0.56
24:BA:608:A:H61	24:BA:619:G:H2'	1.70	0.56
24:BA:643:A:H4'	24:BA:644:A:C5'	2.35	0.56
24:BA:71:A:N6	24:BA:114:U:H1'	2.19	0.56
24:BA:72:U:C4	24:BA:112:U:H1'	2.40	0.56
24:BA:948:G:C6	24:BA:970:C:C2	2.94	0.56
24:BA:972:G:C6	24:BA:973:A:N7	2.74	0.56
25:BB:4:C:N3	25:BB:117:G:C2	2.74	0.56
25:BB:11:C:H3'	47:BZ:74:ARG:NH2	2.20	0.56
25:BB:90:C:O2'	25:BB:91:C:C5'	2.54	0.56
25:BB:9:G:N2	25:BB:10:C:C2	2.73	0.56
27:BD:169:GLU:CG	27:BD:184:LYS:NZ	2.68	0.56
24:BA:1790:C:O2'	27:BD:213:ARG:CZ	2.54	0.56
27:BD:226:MET:O	27:BD:228:PRO:N	2.38	0.56
27:BD:78:LYS:O	27:BD:95:LEU:HD22	2.06	0.56
24:BA:2823:A:P	28:BE:113:PHE:CZ	2.99	0.56
28:BE:201:THR:O	28:BE:202:LYS:HD3	2.05	0.56
31:BH:137:ASP:HB3	31:BH:140:LYS:HE2	1.86	0.56
31:BH:9:ILE:HG13	31:BH:69:ARG:HH12	1.70	0.56
31:BH:69:ARG:CG	31:BH:70:THR:N	2.68	0.56
31:BH:7:LEU:CA	31:BH:52:VAL:HG13	2.35	0.56
32:BK:7:GLU:OE1	32:BK:35:LEU:HA	2.05	0.56
33:BL:10:LEU:HD23	33:BL:10:LEU:H	1.71	0.56
34:BM:4:TYR:CE2	41:BT:100:VAL:HB	2.41	0.56
34:BM:56:ASN:HB3	34:BM:59:LYS:HD2	1.87	0.56
34:BM:65:LYS:O	34:BM:66:LYS:O	2.22	0.56
35:BN:42:SER:HA	35:BN:55:GLY:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:65:THR:HA	35:BN:77:ILE:HG13	1.87	0.56
35:BN:8:LEU:O	35:BN:18:LYS:HG3	2.04	0.56
37:BP:116:GLU:CA	37:BP:119:ARG:HG3	2.35	0.56
37:BP:42:ILE:CG1	37:BP:46:GLN:NE2	2.67	0.56
24:BA:955:C:H5''	37:BP:87:LYS:CE	2.36	0.56
38:BQ:65:LEU:O	38:BQ:68:ARG:N	2.38	0.56
39:BR:96:GLY:O	39:BR:99:LYS:N	2.38	0.56
40:BS:7:ILE:CG1	40:BS:8:LYS:H	2.16	0.56
41:BT:30:LYS:O	41:BT:32:PHE:N	2.33	0.56
41:BT:80:ILE:HA	41:BT:83:LEU:HD13	1.87	0.56
41:BT:88:ILE:CD1	41:BT:88:ILE:H	2.12	0.56
43:BV:7:ALA:N	43:BV:103:ILE:HD13	2.21	0.56
43:BV:33:ARG:CD	43:BV:37:ARG:HD3	2.35	0.56
44:BW:31:HIS:NE2	44:BW:33:LYS:HB3	2.20	0.56
46:BY:110:GLY:HA2	46:BY:144:LEU:O	2.06	0.56
46:BY:6:LYS:CA	46:BY:37:VAL:HG13	2.36	0.56
46:BY:77:ASP:H	46:BY:83:PRO:HA	1.70	0.56
24:BA:2602:A:C2	47:BZ:1:MET:HA	2.40	0.56
24:BA:2139:C:H2'	24:BA:2140:C:H6	1.70	0.56
26:BC:10:LEU:CG	26:BC:220:PRO:HG3	2.35	0.56
26:BC:56:GLN:HA	26:BC:201:PRO:CB	2.36	0.56
24:BA:492:A:H8	24:BA:492:A:OP2	1.86	0.56
24:BA:2180:U:H2'	24:BA:2181:G:H8	1.70	0.56
1:AA:1117:G:OP1	11:AL:104:ARG:NH1	2.38	0.56
1:AA:1157:A:H4'	1:AA:1158:C:C2	2.41	0.56
1:AA:186(C):G:O2'	1:AA:186(D):C:H5'	2.05	0.56
1:AA:237:C:H2'	1:AA:238:G:H8	1.71	0.56
1:AA:308:C:C2'	1:AA:309:G:O5'	2.53	0.56
1:AA:46:G:H1'	1:AA:396:G:N2	2.21	0.56
1:AA:595:G:H8	1:AA:641:U:C4	2.19	0.56
1:AA:809:G:O2'	1:AA:810:C:H5'	2.05	0.56
1:AA:977:A:H4'	1:AA:982:U:O4	2.06	0.56
3:AC:19:G:H5''	3:AC:20:U:C4	2.40	0.56
3:AC:4:C:O2'	3:AC:5:G:H5'	2.05	0.56
4:AE:157:ARG:O	4:AE:158:LEU:HG	2.05	0.56
4:AE:171:ALA:CA	4:AE:174:VAL:HB	2.36	0.56
4:AE:16:HIS:NE2	4:AE:213:LEU:HB3	2.21	0.56
4:AE:23:ARG:HH11	4:AE:24:TRP:H	1.49	0.56
5:AF:40:ARG:HA	5:AF:43:LEU:CD1	2.33	0.56
6:AG:135:LEU:C	6:AG:137:SER:N	2.55	0.56
6:AG:15:GLU:HB3	6:AG:19:LEU:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:195:ALA:O	6:AG:196:LEU:C	2.44	0.56
7:AH:33:VAL:CG2	7:AH:43:LEU:HD12	2.32	0.56
8:AI:37:VAL:HA	8:AI:65:VAL:HB	1.88	0.56
8:AI:53:ALA:CB	8:AI:86:ARG:HH11	2.18	0.56
9:AJ:110:GLN:O	9:AJ:111:ARG:O	2.24	0.56
9:AJ:57:GLU:O	9:AJ:61:VAL:HG23	2.06	0.56
10:AK:6:ILE:O	10:AK:7:ALA:C	2.42	0.56
11:AL:111:ARG:HG2	11:AL:112:LYS:O	2.05	0.56
12:AM:32:ALA:O	12:AM:33:GLN:HB2	2.05	0.56
13:AN:23:ALA:CB	13:AN:28:THR:HG23	2.35	0.56
14:AO:23:LYS:O	14:AO:24:VAL:HG23	2.05	0.56
14:AO:97:ARG:HB3	14:AO:98:TYR:CD1	2.41	0.56
15:AP:48:LEU:HD22	15:AP:53:VAL:CG2	2.31	0.56
1:AA:564:C:N3	19:AT:31:LEU:HD11	2.20	0.56
19:AT:3:LYS:HE3	19:AT:62:SER:O	2.06	0.56
19:AT:51:TYR:O	19:AT:52:LYS:HG3	2.06	0.56
19:AT:53:LEU:O	19:AT:82:MET:SD	2.63	0.56
20:AU:30:ASP:OD2	20:AU:32:ARG:HB2	2.06	0.56
20:AU:51:LEU:N	20:AU:51:LEU:HD12	2.21	0.56
22:AW:50:GLU:OE1	22:AW:100:ILE:HG12	2.05	0.56
49:B2:45:GLY:HA2	49:B2:48:GLU:OE1	2.05	0.56
50:B3:44:THR:CG2	50:B3:45:GLY:N	2.69	0.56
52:B5:25:LYS:O	52:B5:26:ASN:HB2	2.04	0.56
54:B7:16:ILE:CG2	54:B7:21:LYS:O	2.54	0.56
54:B7:7:HIS:O	54:B7:8:LYS:C	2.43	0.56
24:BA:1024:G:C2	24:BA:1139:G:N2	2.74	0.56
24:BA:1189:A:OP1	36:BO:29:LYS:HE3	2.05	0.56
24:BA:1257:C:C4	24:BA:1258:C:N4	2.74	0.56
24:BA:1256:G:C4	24:BA:1257:C:C5	2.94	0.56
24:BA:1397:U:O2'	24:BA:1398:C:OP1	2.21	0.56
24:BA:140:A:H2	24:BA:1408:C:O2	1.88	0.56
24:BA:1592:C:O2'	24:BA:1593:G:C5'	2.53	0.56
24:BA:1819:A:OP2	27:BD:157:ARG:NE	2.39	0.56
24:BA:1838:C:H2'	24:BA:1898:U:C5	2.40	0.56
24:BA:1794:U:H5'	24:BA:1900:A:N6	2.21	0.56
24:BA:1937:A:O2'	24:BA:1938:A:OP1	2.23	0.56
24:BA:1947:C:N3	24:BA:1948:G:C8	2.74	0.56
24:BA:1964:G:N1	24:BA:1967:C:C5	2.73	0.56
24:BA:1669:A:N6	24:BA:1994:C:C2	2.73	0.56
24:BA:1993:U:N1	24:BA:1994:C:H5	2.04	0.56
24:BA:1996:C:H2'	24:BA:1997:G:O5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2052:G:C5	24:BA:2053:G:N7	2.74	0.56
24:BA:2075:U:O2	24:BA:2075:U:C2'	2.53	0.56
24:BA:2083:G:C4	24:BA:2084:C:C5	2.93	0.56
24:BA:221:A:C8	24:BA:221:A:C3'	2.89	0.56
24:BA:221:A:C4'	24:BA:222:A:H5'	2.10	0.56
24:BA:2345:G:C5	24:BA:2371:G:N2	2.73	0.56
24:BA:2383:G:N2	24:BA:2384:G:N3	2.53	0.56
24:BA:2385:C:N3	24:BA:2386:C:C5	2.74	0.56
24:BA:2559:C:O2'	24:BA:2560:C:C5'	2.53	0.56
24:BA:2576:G:OP2	24:BA:2576:G:N2	2.39	0.56
24:BA:2636:U:O3'	28:BE:79:ARG:NH2	2.38	0.56
24:BA:270(K):C:H5''	24:BA:270(L):U:C6	2.41	0.56
24:BA:281:G:C8	24:BA:281:G:OP1	2.59	0.56
24:BA:2827:C:O2'	24:BA:2828:C:H5'	2.05	0.56
24:BA:1455:G:H1'	24:BA:2853:C:OP1	2.06	0.56
24:BA:285:C:H2'	24:BA:286:C:C6	2.39	0.56
24:BA:270:A:N6	24:BA:370:G:C8	2.73	0.56
24:BA:643:A:O2'	24:BA:644:A:OP2	2.21	0.56
24:BA:650:C:OP1	54:B7:19:SER:OG	2.21	0.56
24:BA:772:C:H2'	24:BA:773:U:H6	1.71	0.56
24:BA:803:U:O2'	24:BA:804:A:H5'	2.05	0.56
25:BB:109:G:N1	25:BB:110:G:C5	2.74	0.56
25:BB:77:U:O3'	46:BY:78:LYS:CE	2.47	0.56
27:BD:132:PRO:HA	27:BD:189:CYS:O	2.06	0.56
27:BD:17:THR:O	27:BD:17:THR:HG22	2.05	0.56
28:BE:47:VAL:HA	28:BE:48:GLN:NE2	2.21	0.56
28:BE:94:GLU:O	28:BE:96:PHE:N	2.39	0.56
29:BF:31:HIS:HB2	36:BO:14:LYS:NZ	2.10	0.56
29:BF:52:LYS:O	29:BF:53:THR:CG2	2.53	0.56
30:BG:86:MET:H	30:BG:87:PRO:HD3	1.71	0.56
32:BK:3:VAL:O	32:BK:18:VAL:HG13	2.05	0.56
33:BL:32:ALA:HA	33:BL:37:PHE:HE1	1.70	0.56
34:BM:69:GLN:C	34:BM:70:LYS:HD3	2.26	0.56
34:BM:74:ARG:NE	34:BM:82:LEU:HD11	2.20	0.56
35:BN:3:GLN:OE1	35:BN:6:THR:HG21	2.05	0.56
35:BN:76:ALA:HB1	35:BN:78:ARG:HH22	1.70	0.56
37:BP:6:ARG:O	37:BP:7:MET:HG2	2.05	0.56
37:BP:98:LYS:CE	37:BP:98:LYS:N	2.68	0.56
38:BQ:34:ILE:HG22	38:BQ:35:THR:N	2.20	0.56
38:BQ:61:HIS:HA	38:BQ:64:ARG:CD	2.35	0.56
38:BQ:67:LEU:O	38:BQ:68:ARG:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:26:LEU:H	39:BR:88:ASP:HB2	1.71	0.56
41:BT:13:LYS:CD	41:BT:13:LYS:H	2.08	0.56
41:BT:57:PHE:O	41:BT:58:ARG:C	2.43	0.56
42:BU:5:VAL:HG11	42:BU:37:VAL:HG22	1.87	0.56
43:BV:14:PRO:CD	43:BV:99:ARG:HG3	2.35	0.56
43:BV:34:ASN:ND2	43:BV:37:ARG:NH1	2.53	0.56
43:BV:88:ARG:HE	43:BV:88:ARG:HA	1.70	0.56
45:BX:26:LYS:HB2	45:BX:38:ILE:CD1	2.32	0.56
45:BX:47:LYS:CE	45:BX:49:VAL:HG11	2.35	0.56
46:BY:100:VAL:HG12	46:BY:133:ILE:HB	1.86	0.56
46:BY:102:LEU:HD21	46:BY:125:LEU:HD12	1.87	0.56
46:BY:60:GLU:OE2	46:BY:67:LEU:O	2.24	0.56
24:BA:2353:G:H1'	47:BZ:34:GLY:HA3	1.88	0.56
3:AD:56:C:H2'	3:AD:57:G:O4'	2.04	0.56
26:BC:127:LEU:HB3	26:BC:131:LEU:CD1	2.36	0.56
26:BC:124:GLY:HA2	26:BC:137:LEU:HD21	1.86	0.56
26:BC:89:ALA:CA	26:BC:154:ARG:HG3	2.32	0.56
1:AA:164:U:H2'	1:AA:165:C:C6	2.39	0.56
24:BA:1483:G:H1'	24:BA:1507:A:H2	1.66	0.56
33:BL:95:LYS:HZ2	46:BY:112:ARG:HD2	1.70	0.56
39:BR:56:LEU:CD1	39:BR:59:LYS:HD2	2.36	0.56
3:AC:44:G:O2'	3:AC:45:U:H5'	2.06	0.56
15:AP:120:LYS:O	15:AP:121:LYS:CB	2.54	0.56
1:AA:962:C:O2'	1:AA:1200:C:C5	2.57	0.56
1:AA:1443:G:O5'	1:AA:1446:A:OP1	2.23	0.56
1:AA:295:C:O2	1:AA:296:U:O4'	2.24	0.56
1:AA:392:G:H5'	18:AS:12:LYS:HZ3	1.70	0.56
1:AA:581:G:O3'	17:AR:64:ARG:NH2	2.38	0.56
1:AA:872:A:C5	1:AA:874:G:N7	2.73	0.56
3:AC:31:A:OP1	11:AL:127:LYS:HE3	2.04	0.56
4:AE:134:GLU:HB3	4:AE:135:GLN:NE2	2.21	0.56
4:AE:139:LYS:CG	4:AE:140:HIS:N	2.64	0.56
5:AF:139:GLN:O	5:AF:143:GLU:HG3	2.05	0.56
6:AG:11:LEU:HA	6:AG:14:ARG:CB	2.32	0.56
6:AG:58:LEU:HD22	6:AG:62:GLN:HG2	1.88	0.56
7:AH:109:ILE:HD11	7:AH:139:LEU:CD1	2.35	0.56
7:AH:79:GLU:HA	7:AH:91:LEU:CD2	2.35	0.56
9:AJ:116:ALA:O	9:AJ:120:ILE:HG13	2.05	0.56
9:AJ:47:CYS:SG	9:AJ:50:ILE:HD12	2.46	0.56
10:AK:102:ARG:HD3	10:AK:105:ARG:NH1	2.21	0.56
10:AK:28:ALA:O	10:AK:29:SER:OG	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:32:ASP:CG	11:AL:33:PHE:N	2.58	0.56
11:AL:38:GLN:C	11:AL:40:LEU:H	2.09	0.56
11:AL:15:ALA:HB3	11:AL:77:ILE:N	2.19	0.56
11:AL:17:VAL:HG21	11:AL:77:ILE:O	2.05	0.56
14:AO:27:LEU:CD2	14:AO:33:ARG:HH11	2.19	0.56
14:AO:85:ILE:HG13	14:AO:99:HIS:O	2.05	0.56
15:AP:40:ASN:C	15:AP:42:ALA:H	2.09	0.56
16:AQ:10:ALA:O	16:AQ:12:ARG:HG2	2.05	0.56
1:AA:254:G:OP1	19:AT:67:LYS:O	2.23	0.56
20:AU:58:LEU:HB2	20:AU:63:GLN:OE1	2.04	0.56
22:AW:86:ARG:HG2	22:AW:87:LYS:N	2.21	0.56
52:B5:20:ASN:CG	52:B5:43:CYS:SG	2.84	0.56
24:BA:1188:U:H2'	24:BA:1189:A:H5'	1.88	0.56
24:BA:1263:U:H5''	51:B4:10:LYS:HZ2	1.69	0.56
24:BA:1374:G:C6	24:BA:1375:C:C4	2.94	0.56
24:BA:740:U:O4'	24:BA:1784:A:C5	2.58	0.56
24:BA:1790:C:O2	24:BA:1790:C:H2'	2.05	0.56
24:BA:1930:G:HO2'	24:BA:1931:U:P	2.28	0.56
24:BA:2018:G:H1'	41:BT:34:LYS:HZ1	1.68	0.56
24:BA:572:A:C2	24:BA:2033:A:C2	2.92	0.56
24:BA:2327:A:O2'	24:BA:2328:A:O4'	2.18	0.56
24:BA:2387:U:C1'	47:BZ:41:ARG:CZ	2.83	0.56
24:BA:2412:A:H2'	24:BA:2413:G:O4'	2.06	0.56
24:BA:2447:G:C4	24:BA:2500:U:C5	2.94	0.56
24:BA:2460:U:H3'	24:BA:2461:C:C5	2.41	0.56
24:BA:2500:U:H4'	24:BA:2501:C:OP2	2.02	0.56
24:BA:2615:U:H2'	24:BA:2616:C:C6	2.39	0.56
24:BA:2694:G:O6	24:BA:2695:C:N4	2.38	0.56
24:BA:2718:G:C4	24:BA:2719:G:C8	2.94	0.56
24:BA:2764:A:C4'	24:BA:2764:A:OP1	2.48	0.56
24:BA:308:G:N1	24:BA:309:G:N3	2.53	0.56
24:BA:543:C:H2'	24:BA:544:C:H5	1.70	0.56
24:BA:547:A:N6	24:BA:548:A:C6	2.74	0.56
24:BA:786:C:H5''	24:BA:1780:A:C8	2.41	0.56
24:BA:947:G:O5'	24:BA:947:G:C8	2.54	0.56
24:BA:948:G:O4'	24:BA:984:A:C2	2.58	0.56
24:BA:950:G:C4	24:BA:951:C:C5	2.94	0.56
24:BA:972:G:C5	24:BA:973:A:C8	2.94	0.56
25:BB:80:U:O2'	25:BB:81:G:H8	1.89	0.56
25:BB:80:U:C2'	25:BB:81:G:H8	2.19	0.56
27:BD:78:LYS:HE2	27:BD:114:GLY:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:214:TRP:O	27:BD:215:LEU:C	2.42	0.56
27:BD:8:PRO:HD2	27:BD:26:LYS:H	1.71	0.56
28:BE:165:VAL:HG12	28:BE:166:THR:N	2.17	0.56
29:BF:109:GLY:C	29:BF:111:ALA:N	2.57	0.56
29:BF:122:LYS:HZ1	29:BF:192:LEU:HB3	1.70	0.56
30:BG:135:LEU:HD13	30:BG:135:LEU:C	2.26	0.56
30:BG:162:THR:HG22	30:BG:162:THR:O	2.06	0.56
32:BK:24:GLY:O	32:BK:27:ARG:HB3	2.06	0.56
34:BM:34:LEU:HB3	34:BM:116:LEU:CD2	2.36	0.56
34:BM:34:LEU:HD21	34:BM:120:LEU:HD13	1.87	0.56
35:BN:94:ARG:CG	35:BN:96:THR:N	2.67	0.56
36:BO:114:ILE:HD11	36:BO:123:LEU:HG	1.86	0.56
36:BO:15:ARG:O	36:BO:16:ARG:C	2.43	0.56
36:BO:8:PRO:O	36:BO:9:ASN:C	2.44	0.56
37:BP:36:ALA:HB1	37:BP:39:PRO:HG2	1.87	0.56
37:BP:44:ALA:C	37:BP:48:GLU:OE2	2.44	0.56
39:BR:57:LYS:HZ3	39:BR:62:LYS:CG	2.18	0.56
42:BU:35:LEU:O	42:BU:61:VAL:CA	2.53	0.56
43:BV:6:ILE:CG2	43:BV:7:ALA:N	2.68	0.56
44:BW:65:ARG:HA	44:BW:70:LEU:CD1	2.36	0.56
45:BX:29:GLU:OE1	45:BX:34:LYS:HB2	2.05	0.56
46:BY:29:TYR:CD2	46:BY:72:ARG:NH1	2.74	0.56
47:BZ:57:PHE:N	47:BZ:57:PHE:CD1	2.73	0.56
26:BC:122:ALA:HB1	26:BC:126:LYS:CD	2.27	0.56
26:BC:10:LEU:HD13	26:BC:13:LYS:HD2	1.86	0.56
24:BA:1113:U:O5'	24:BA:1113:U:C6	2.55	0.56
24:BA:1285:G:O5'	24:BA:1285:G:C8	2.59	0.56
3:AD:67:C:O2'	3:AD:68:C:H5'	2.05	0.56
14:AO:18:VAL:O	14:AO:19:ARG:HB2	2.06	0.56
1:AA:1113:C:N3	1:AA:1114:C:C5	2.73	0.56
1:AA:124:G:C2'	1:AA:125:U:O4'	2.54	0.56
1:AA:1278:U:H5'	1:AA:1279:A:C4'	2.35	0.56
1:AA:1446:A:O2'	1:AA:1447:G:P	2.63	0.56
1:AA:1516:G:H22	1:AA:1518:A:C3'	2.15	0.56
1:AA:182:U:O2	1:AA:182:U:H2'	2.06	0.56
1:AA:324:G:N2	1:AA:327:A:OP2	2.39	0.56
1:AA:519:C:C5	1:AA:520:A:N3	2.74	0.56
1:AA:562:C:O2'	14:AO:15:ARG:CB	2.53	0.56
1:AA:640:A:H2'	1:AA:641:U:C5'	2.36	0.56
1:AA:794:A:C6	1:AA:795:C:N4	2.74	0.56
1:AA:815:A:C8	1:AA:819:A:H2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:961:U:C6	1:AA:983:A:N1	2.74	0.56
3:AB:74:C:N4	24:BA:2555:U:C2'	2.55	0.56
4:AE:101:MET:O	4:AE:103:THR:N	2.39	0.56
4:AE:107:THR:O	4:AE:108:ILE:C	2.43	0.56
4:AE:107:THR:C	4:AE:109:SER:N	2.56	0.56
4:AE:69:LEU:O	4:AE:162:ILE:HB	2.06	0.56
5:AF:10:PHE:C	5:AF:11:ARG:HE	2.09	0.56
5:AF:8:ILE:HD11	5:AF:16:ARG:HD2	1.88	0.56
6:AG:205:GLU:O	6:AG:206:PHE:C	2.44	0.56
6:AG:93:PHE:O	6:AG:96:LEU:N	2.39	0.56
7:AH:9:LYS:CB	7:AH:33:VAL:HB	2.30	0.56
9:AJ:26:PHE:HD2	9:AJ:43:PHE:HE1	1.52	0.56
11:AL:78:LYS:HD3	11:AL:79:LEU:HD22	1.87	0.56
12:AM:32:ALA:HB2	12:AM:75:ILE:O	2.05	0.56
12:AM:34:VAL:HG22	12:AM:74:ILE:CD1	2.36	0.56
14:AO:76:ASN:HD22	14:AO:77:LEU:HD23	1.69	0.56
14:AO:84:LEU:HD23	14:AO:85:ILE:N	2.20	0.56
1:AA:1228:C:P	15:AP:115:LYS:HB3	2.46	0.56
15:AP:71:ARG:O	15:AP:73:GLU:N	2.39	0.56
19:AT:40:LYS:NZ	19:AT:42:TYR:CE1	2.74	0.56
48:B1:54:ARG:HH21	48:B1:54:ARG:CG	2.18	0.56
50:B3:29:PRO:O	50:B3:31:ILE:HG23	2.06	0.56
50:B3:29:PRO:O	50:B3:31:ILE:N	2.39	0.56
50:B3:7:PRO:CD	50:B3:56:VAL:CG1	2.80	0.56
53:B6:8:ASN:HD22	53:B6:8:ASN:C	2.07	0.56
24:BA:1045:A:OP1	24:BA:1111:A:H2	1.87	0.56
24:BA:1178:C:N3	24:BA:1179:C:C4	2.74	0.56
24:BA:582:G:C6	24:BA:1259:G:C6	2.94	0.56
24:BA:1525:G:C4	24:BA:1526:G:C8	2.94	0.56
24:BA:1676:A:C8	24:BA:1677:A:N7	2.73	0.56
24:BA:1762:A:H8	24:BA:1762:A:C3'	2.09	0.56
24:BA:1833:U:O2'	24:BA:1834:U:OP1	2.14	0.56
24:BA:1840:G:O2'	24:BA:1841:U:H5'	2.05	0.56
24:BA:1882:C:H2'	24:BA:1883:G:C4'	2.35	0.56
24:BA:1902:C:H2'	24:BA:1903:G:C5'	2.36	0.56
24:BA:2067:G:C6	24:BA:2069:G:C5	2.94	0.56
24:BA:2215:G:H8	24:BA:2215:G:P	2.29	0.56
24:BA:2332:U:O4'	24:BA:2336:A:N6	2.37	0.56
24:BA:2371:G:C2'	24:BA:2372:G:O4'	2.53	0.56
24:BA:2423:U:C1'	24:BA:2425:A:C4	2.89	0.56
3:AD:76:A:C4	24:BA:2432:A:C1'	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2466:C:O2'	37:BP:123:HIS:NE2	2.35	0.56
24:BA:2453:A:N6	24:BA:2500:U:H3	2.01	0.56
24:BA:2501:C:H5''	24:BA:2502:G:H5''	1.88	0.56
24:BA:2527:C:H2'	24:BA:2528:U:C6	2.40	0.56
24:BA:2572:A:OP1	24:BA:2574:G:H4'	2.06	0.56
24:BA:2653:U:C3'	24:BA:2654:A:H8	2.19	0.56
24:BA:270(J):G:C6	24:BA:270(K):C:C4	2.93	0.56
24:BA:2713:A:H8	24:BA:2713:A:P	2.29	0.56
24:BA:2723:C:C4	24:BA:2724:C:C5	2.93	0.56
24:BA:2762:G:N7	24:BA:2763:G:N7	2.53	0.56
24:BA:2781:A:C3'	24:BA:2782:G:H4'	2.35	0.56
24:BA:2797:U:OP1	24:BA:2797:U:O4'	2.24	0.56
24:BA:2859:G:H2'	24:BA:2860:A:C8	2.40	0.56
24:BA:2884:U:H3	51:B4:40:LYS:HZ3	1.53	0.56
24:BA:461:C:N4	24:BA:469:G:N2	2.54	0.56
24:BA:460:A:C6	24:BA:470:A:C8	2.94	0.56
24:BA:472:A:C2'	24:BA:473:G:C5'	2.75	0.56
24:BA:61:G:H2'	24:BA:62:C:H6	1.70	0.56
24:BA:665:C:OP2	24:BA:665:C:C6	2.58	0.56
24:BA:730:C:H5''	24:BA:763:G:OP1	2.05	0.56
24:BA:977:G:C5	24:BA:987:G:C2	2.94	0.56
25:BB:64:C:O2'	25:BB:65:C:H5'	2.04	0.56
24:BA:2210:G:O6	27:BD:150:LYS:N	2.39	0.56
27:BD:172:TYR:HD2	27:BD:186:HIS:N	2.03	0.56
28:BE:59:VAL:CG1	28:BE:62:PRO:HD2	2.36	0.56
30:BG:8:LYS:HB2	30:BG:104:GLU:HB2	1.87	0.56
24:BA:2315:G:H4'	30:BG:130:ASN:OD1	2.06	0.56
30:BG:149:VAL:HG13	30:BG:150:ASP:N	2.21	0.56
30:BG:1:MET:HB3	30:BG:2:PRO:HD3	1.88	0.56
30:BG:6:ALA:CA	30:BG:9:ARG:HH21	2.18	0.56
31:BH:103:LEU:N	31:BH:115:VAL:HG12	2.21	0.56
31:BH:157:TYR:CD1	31:BH:158:HIS:HB2	2.41	0.56
31:BH:28:GLY:HA3	31:BH:79:VAL:CB	2.33	0.56
31:BH:51:ARG:HD3	31:BH:52:VAL:H	1.70	0.56
31:BH:76:VAL:O	31:BH:77:LYS:C	2.44	0.56
32:BK:33:ARG:CB	32:BK:35:LEU:CD2	2.83	0.56
33:BL:34:ILE:O	33:BL:38:VAL:HB	2.06	0.56
33:BL:57:ILE:HA	33:BL:67:PHE:HB2	1.88	0.56
34:BM:17:ASP:HB3	34:BM:21:LYS:HZ1	1.71	0.56
34:BM:87:LEU:HA	34:BM:90:MET:CB	2.36	0.56
35:BN:111:PHE:O	35:BN:112:MET:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:51:PHE:O	36:BO:55:ARG:CG	2.54	0.56
36:BO:91:PHE:O	36:BO:95:VAL:CB	2.52	0.56
37:BP:8:LYS:NZ	37:BP:11:LYS:NZ	2.51	0.56
24:BA:2466:C:HO2'	37:BP:123:HIS:HE2	1.51	0.56
38:BQ:54:LEU:HA	38:BQ:57:ARG:CG	2.34	0.56
39:BR:24:LEU:H	39:BR:86:ALA:HB2	1.70	0.56
40:BS:102:ILE:C	40:BS:104:ASN:N	2.56	0.56
40:BS:34:VAL:HG21	40:BS:36:GLU:CD	2.25	0.56
42:BU:40:LEU:HA	42:BU:54:GLY:CA	2.27	0.56
44:BW:39:ILE:O	44:BW:43:VAL:HG23	2.06	0.56
44:BW:42:ALA:O	44:BW:46:ALA:CB	2.54	0.56
46:BY:122:ARG:HG2	46:BY:171:ILE:CA	2.34	0.56
46:BY:24:LEU:CD2	46:BY:25:PRO:HD2	2.34	0.56
26:BC:7:TYR:CE2	26:BC:11:LEU:HD22	2.41	0.56
26:BC:22:ILE:HG23	26:BC:189:ILE:HG21	1.88	0.56
24:BA:1578:U:H3'	24:BA:1580:A:C2	2.41	0.56
3:AD:41:C:C5'	3:AD:41:C:H6	2.18	0.56
9:AJ:132:GLY:O	9:AJ:136:LYS:HB2	2.06	0.56
29:BF:148:LEU:N	29:BF:148:LEU:HD22	2.21	0.56
2:A1:37:U:H5''	2:A1:38:U:OP1	2.06	0.56
2:A1:38:U:C6	2:A1:38:U:OP2	2.58	0.56
1:AA:1125:U:H4'	1:AA:1126:U:H5	1.71	0.56
1:AA:1251:A:C2'	1:AA:1252:A:C8	2.88	0.56
1:AA:944:G:N2	1:AA:1339:A:H62	1.86	0.56
1:AA:190:G:HO2'	1:AA:191(A):G:P	2.28	0.56
1:AA:283:C:C2'	1:AA:283:C:O2	2.51	0.56
1:AA:300:A:C2	1:AA:566:G:O6	2.59	0.56
1:AA:366:C:O2'	1:AA:394:G:N2	2.39	0.56
1:AA:577:G:H1'	1:AA:816:A:C2	2.41	0.56
1:AA:577:G:N2	1:AA:578:C:H1'	2.19	0.56
1:AA:944:G:C3'	1:AA:945:G:C5'	2.82	0.56
1:AA:962:C:O2'	1:AA:963:G:H5'	2.05	0.56
1:AA:974:A:H8	1:AA:974:A:OP1	1.88	0.56
4:AE:189:ASP:HB2	4:AE:205:ASP:CB	2.36	0.56
4:AE:20:GLU:N	4:AE:20:GLU:OE1	2.38	0.56
6:AG:144:ASP:HA	6:AG:184:LYS:HZ2	1.71	0.56
6:AG:15:GLU:HA	6:AG:15:GLU:OE1	2.06	0.56
6:AG:162:LEU:O	6:AG:166:LYS:HG2	2.05	0.56
6:AG:34:GLU:O	6:AG:35:ARG:CB	2.54	0.56
7:AH:106:PRO:O	7:AH:109:ILE:CG2	2.54	0.56
8:AI:23:LYS:HA	8:AI:26:ILE:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:72:VAL:O	8:AI:73:ASN:C	2.44	0.56
10:AK:14:ARG:HD2	10:AK:15:ASN:ND2	2.21	0.56
10:AK:44:PHE:HD1	10:AK:79:VAL:HG12	1.71	0.56
11:AL:111:ARG:HG2	11:AL:112:LYS:N	2.21	0.56
11:AL:49:PRO:HD3	11:AL:78:LYS:CG	2.33	0.56
13:AN:31:THR:OG1	13:AN:42:TRP:HB3	2.05	0.56
13:AN:80:VAL:CG2	13:AN:81:ASP:N	2.69	0.56
14:AO:27:LEU:HD21	14:AO:33:ARG:HH11	1.70	0.56
14:AO:85:ILE:HD12	14:AO:99:HIS:C	2.26	0.56
16:AQ:11:LYS:O	16:AQ:13:THR:N	2.39	0.56
16:AQ:13:THR:O	16:AQ:15:LYS:N	2.39	0.56
16:AQ:42:ILE:C	16:AQ:44:LEU:N	2.56	0.56
17:AR:66:LEU:H	17:AR:66:LEU:HD23	1.70	0.56
21:AV:12:ASP:O	21:AV:15:LEU:HG	2.05	0.56
22:AW:62:LEU:HD23	22:AW:65:LYS:HG3	1.87	0.56
50:B3:55:ARG:O	50:B3:61:ARG:NE	2.38	0.56
50:B3:65:ASP:OD2	50:B3:69:LYS:HE3	2.05	0.56
54:B7:23:VAL:HG13	54:B7:24:ALA:N	2.20	0.56
24:BA:1024:G:OP2	24:BA:1025:G:N3	2.39	0.56
24:BA:1174:A:N3	24:BA:1174:A:C2'	2.69	0.56
24:BA:1366:A:N1	24:BA:1367:A:N3	2.54	0.56
24:BA:1472:A:N7	24:BA:1474:C:C5	2.74	0.56
24:BA:1527:G:C1'	24:BA:1528:A:N3	2.68	0.56
24:BA:1530:G:H22	24:BA:1541:U:C2'	2.16	0.56
24:BA:1609:A:N6	24:BA:1616:A:C2	2.74	0.56
24:BA:1657:C:O2'	24:BA:1658:C:H5'	2.05	0.56
24:BA:1664:A:C2'	24:BA:1665:A:H8	2.18	0.56
24:BA:1762:A:C5'	24:BA:1763:G:OP2	2.53	0.56
24:BA:1764:G:HO2'	24:BA:1765:C:H5'	1.71	0.56
24:BA:1790:C:OP2	27:BD:221:VAL:O	2.22	0.56
24:BA:1955:U:O3'	24:BA:1956:U:C5	2.58	0.56
24:BA:1990:C:N3	24:BA:1991:U:N3	2.54	0.56
24:BA:216:A:C2	24:BA:217:G:C5	2.94	0.56
24:BA:184:C:O3'	24:BA:217:G:N2	2.38	0.56
24:BA:2261:C:O5'	24:BA:2261:C:H6	1.89	0.56
24:BA:2324:C:O2	24:BA:2385:C:C5	2.58	0.56
24:BA:2376:A:C2	24:BA:2377:A:C4	2.94	0.56
24:BA:2428:G:C4'	24:BA:2429:G:O5'	2.54	0.56
24:BA:2457:U:O2'	24:BA:2458:G:H5'	2.06	0.56
24:BA:2531:A:O2'	24:BA:2532:G:H5'	2.05	0.56
24:BA:2694:G:C5	24:BA:2695:C:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(K):C:H3'	24:BA:270(L):U:O4'	2.06	0.56
24:BA:2723:C:P	28:BE:109:LYS:HZ3	2.29	0.56
24:BA:2734:A:N3	28:BE:203:LYS:HD2	2.21	0.56
24:BA:2753:A:H2'	24:BA:2754:U:O5'	2.06	0.56
24:BA:2845:G:O2'	24:BA:2846:G:O5'	2.23	0.56
24:BA:572:A:H61	24:BA:2029:G:H1'	1.71	0.56
24:BA:64:A:C2	44:BW:66:LEU:HB2	2.41	0.56
24:BA:671:C:H5'	24:BA:672:C:OP2	2.06	0.56
24:BA:914:C:H5	24:BA:915:C:C5	2.24	0.56
24:BA:919:G:N3	24:BA:920:G:C8	2.74	0.56
24:BA:92:G:H2'	24:BA:93:C:C6	2.40	0.56
25:BB:69:G:C5'	25:BB:70:C:OP2	2.54	0.56
27:BD:175:LEU:HD22	27:BD:176:ARG:H	1.66	0.56
24:BA:1971:A:N3	27:BD:239:ARG:HA	2.20	0.56
27:BD:64:ILE:HG23	27:BD:64:ILE:O	2.06	0.56
27:BD:94:LEU:HD12	27:BD:95:LEU:N	2.21	0.56
28:BE:111:ARG:HB2	28:BE:161:GLY:CA	2.35	0.56
28:BE:14:ILE:HG22	28:BE:19:ARG:CA	2.36	0.56
28:BE:41:LYS:O	28:BE:44:TYR:N	2.39	0.56
28:BE:49:LEU:HD13	28:BE:50:GLY:H	1.71	0.56
29:BF:5:ALA:O	29:BF:20:LEU:HD22	2.04	0.56
30:BG:102:PHE:O	30:BG:103:LEU:C	2.42	0.56
30:BG:19:LEU:H	30:BG:19:LEU:HD12	1.70	0.56
30:BG:49:ASP:CA	30:BG:53:LEU:HD13	2.36	0.56
30:BG:47:LYS:HE2	30:BG:73:ALA:CB	2.31	0.56
31:BH:15:VAL:HG21	31:BH:79:VAL:HG21	1.87	0.56
31:BH:68:THR:O	31:BH:72:ILE:HG13	2.06	0.56
33:BL:104:VAL:HG22	33:BL:127:ILE:HG21	1.88	0.56
33:BL:17:ALA:HB1	33:BL:38:VAL:CG1	2.24	0.56
33:BL:20:ALA:O	33:BL:25:PRO:CD	2.53	0.56
34:BM:99:LEU:CD2	34:BM:122:VAL:HG21	2.36	0.56
34:BM:39:ARG:HB3	34:BM:48:MET:SD	2.46	0.56
35:BN:3:GLN:NE2	35:BN:33:ALA:CB	2.41	0.56
36:BO:36:LYS:NZ	36:BO:42:SER:CB	2.68	0.56
38:BQ:85:PRO:O	38:BQ:87:TYR:N	2.39	0.56
39:BR:106:ARG:HH22	39:BR:110:LEU:CD1	2.16	0.56
39:BR:74:ALA:CB	39:BR:104:GLY:O	2.53	0.56
40:BS:102:ILE:C	40:BS:104:ASN:H	2.08	0.56
40:BS:7:ILE:CG1	40:BS:8:LYS:N	2.68	0.56
41:BT:108:GLU:OE1	41:BT:109:LEU:CG	2.51	0.56
41:BT:45:TYR:O	41:BT:49:HIS:ND1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:61:TRP:HZ3	41:BT:93:LYS:C	2.09	0.56
42:BU:6:LYS:HZ3	42:BU:10:LYS:HD2	1.69	0.56
42:BU:13:ARG:O	42:BU:14:VAL:CG2	2.53	0.56
42:BU:62:LEU:CD1	42:BU:96:ILE:HD13	2.35	0.56
44:BW:7:VAL:CB	48:B1:28:MET:HG2	2.36	0.56
45:BX:46:LYS:HD3	45:BX:52:SER:OG	2.05	0.56
46:BY:116:VAL:HG12	46:BY:176:PRO:HA	1.86	0.56
47:BZ:31:VAL:HG22	47:BZ:67:VAL:N	2.21	0.56
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CD2	2.39	0.56
24:BA:856:C:H1'	47:BZ:69:PHE:HE1	1.69	0.56
47:BZ:76:GLY:C	47:BZ:78:TYR:CE1	2.79	0.56
26:BC:115:ALA:CB	26:BC:120:MET:SD	2.85	0.56
26:BC:180:PHE:HB3	26:BC:185:LEU:CD2	2.20	0.56
26:BC:93:TYR:CZ	26:BC:109:ASP:HB3	2.41	0.56
24:BA:273(B):C:H2'	24:BA:273(C):C:H6	1.66	0.56
11:AL:99:LEU:N	11:AL:99:LEU:HD22	2.20	0.56
34:BM:133:GLN:OE1	34:BM:133:GLN:HA	2.06	0.56
1:AA:1159:U:C5'	1:AA:1160:G:OP1	2.51	0.56
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.21	0.56
1:AA:1261:A:C2	1:AA:1262:C:C2	2.93	0.56
1:AA:1299:A:N6	1:AA:1301:U:C2	2.74	0.56
1:AA:1336:C:O2'	1:AA:1337:G:C5	2.56	0.56
1:AA:1362(A):C:H5'	1:AA:1363:A:P	2.45	0.56
1:AA:1466:C:C3'	1:AA:1467:G:C8	2.89	0.56
1:AA:151:A:N6	1:AA:152:A:C2	2.74	0.56
1:AA:409:G:C5'	6:AG:24:GLU:OE1	2.54	0.56
1:AA:435:C:C2'	1:AA:436:C:H5'	2.36	0.56
1:AA:597:G:O2'	1:AA:598:U:H5'	2.05	0.56
1:AA:62:U:H1'	1:AA:379:C:H1'	1.87	0.56
1:AA:893:C:C2	1:AA:894:G:C8	2.94	0.56
1:AA:962:C:H2'	1:AA:963:G:C8	2.41	0.56
3:AB:59:U:C5	3:AB:60:U:C4	2.94	0.56
4:AE:135:GLN:O	4:AE:139:LYS:HG2	2.06	0.56
5:AF:131:ARG:HH12	7:AH:51:VAL:CG2	2.19	0.56
1:AA:532:A:C5'	5:AF:161:GLU:OE1	2.54	0.56
5:AF:84:ILE:HG13	5:AF:101:LEU:CD1	2.35	0.56
6:AG:200:GLU:HG3	6:AG:201:GLN:HE21	1.70	0.56
6:AG:25:ARG:C	6:AG:27:TYR:N	2.59	0.56
6:AG:63:LYS:HD2	6:AG:63:LYS:N	2.21	0.56
7:AH:72:GLN:HG3	7:AH:77:PRO:HD3	1.88	0.56
8:AI:76:ALA:HA	8:AI:79:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:26:PHE:CD2	9:AJ:43:PHE:CE1	2.94	0.56
9:AJ:75:VAL:HG12	9:AJ:76:ARG:N	2.19	0.56
11:AL:36:TYR:HD2	11:AL:37:PHE:CE2	2.23	0.56
12:AM:27:ALA:CB	12:AM:85:LEU:HD11	2.36	0.56
12:AM:27:ALA:HB2	12:AM:85:LEU:HD21	1.87	0.56
13:AN:62:GLN:HA	13:AN:97:ALA:CB	2.36	0.56
13:AN:85:ARG:NH2	13:AN:111:ASP:OD2	2.38	0.56
13:AN:92:GLU:C	13:AN:94:ALA:N	2.57	0.56
14:AO:96:VAL:O	14:AO:96:VAL:HG12	2.05	0.56
15:AP:3:ARG:HA	15:AP:7:VAL:HA	1.88	0.56
17:AR:70:LEU:O	17:AR:74:ASP:O	2.23	0.56
18:AS:12:LYS:NZ	18:AS:13:HIS:CE1	2.74	0.56
19:AT:18:THR:HG23	19:AT:69:LYS:HE3	1.87	0.56
19:AT:53:LEU:HG	19:AT:53:LEU:O	2.06	0.56
19:AT:44:ALA:CB	19:AT:71:PHE:O	2.55	0.56
21:AV:69:HIS:CB	21:AV:74:PHE:HZ	2.04	0.56
50:B3:5:ILE:HB	50:B3:8:LYS:O	2.06	0.56
52:B5:17:LYS:HZ2	52:B5:50:ARG:CB	2.17	0.56
24:BA:1000:A:N7	24:BA:1001:A:C5	2.74	0.56
24:BA:1131:G:N2	24:BA:1132:A:C2	2.74	0.56
24:BA:1177:A:C2	24:BA:1178:C:C2	2.93	0.56
24:BA:1178:C:C4	24:BA:1179:C:N4	2.74	0.56
24:BA:1179:C:C2'	24:BA:1180:C:H6	2.19	0.56
24:BA:1182:A:C6	24:BA:1183:G:C6	2.94	0.56
24:BA:1224:G:C2'	42:BU:87:HIS:CE1	2.89	0.56
24:BA:1286:A:C2	24:BA:1329:U:C2	2.94	0.56
24:BA:1358:G:N7	24:BA:1371:G:C6	2.74	0.56
24:BA:1401:G:C5	24:BA:1402:C:C5	2.93	0.56
24:BA:1636:C:H2'	24:BA:1636:C:O2	2.07	0.56
24:BA:1699:G:C8	24:BA:1763:G:N2	2.74	0.56
24:BA:1699:G:O6	24:BA:1763:G:O4'	2.24	0.56
24:BA:1917:U:H6	24:BA:1918:A:C8	2.24	0.56
24:BA:2040:C:C2	24:BA:2041:U:C5	2.94	0.56
24:BA:2048:G:C2	24:BA:2049:G:C4	2.94	0.56
24:BA:574:C:H41	24:BA:2054:A:C5'	2.19	0.56
24:BA:2074:U:O2'	24:BA:2075:U:H5'	2.05	0.56
24:BA:2273:A:C8	24:BA:2274:A:C8	2.94	0.56
24:BA:2309:A:N7	30:BG:80:PHE:CZ	2.73	0.56
24:BA:2375:G:H21	24:BA:2378:A:H61	1.45	0.56
24:BA:2441:C:H2'	24:BA:2442:C:H6	1.71	0.56
24:BA:2491:U:C6	24:BA:2492:U:OP2	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:253:C:H2'	24:BA:254:G:O5'	2.06	0.56
24:BA:2737:G:H2'	24:BA:2738:A:H8	1.71	0.56
24:BA:373:U:C4	50:B3:63:TYR:HE1	2.23	0.56
24:BA:27:G:H22	24:BA:512:G:C2'	2.19	0.56
24:BA:513:A:N1	24:BA:514:A:N7	2.54	0.56
24:BA:727:A:N3	24:BA:727:A:C2'	2.68	0.56
24:BA:780:G:N3	24:BA:785:G:O6	2.38	0.56
24:BA:827:U:H4'	24:BA:828:U:H3	1.70	0.56
24:BA:907:U:OP1	37:BP:26:TYR:CE1	2.59	0.56
24:BA:943:U:P	24:BA:943:U:O4'	2.64	0.56
27:BD:178:PRO:CG	27:BD:179:SER:H	2.14	0.56
27:BD:5:LYS:HD3	27:BD:31:LYS:HZ2	1.71	0.56
28:BE:164:ARG:C	28:BE:165:VAL:HG22	2.27	0.56
28:BE:66:HIS:ND1	28:BE:66:HIS:C	2.60	0.56
29:BF:36:VAL:HG13	29:BF:37:VAL:N	2.21	0.56
29:BF:53:THR:OG1	29:BF:54:ARG:N	2.37	0.56
30:BG:68:PRO:HB3	30:BG:72:ARG:NH1	2.21	0.56
31:BH:127:GLU:HB3	31:BH:129:THR:N	2.21	0.56
31:BH:29:PRO:CD	31:BH:79:VAL:HA	2.35	0.56
31:BH:30:LYS:O	31:BH:32:GLU:N	2.39	0.56
31:BH:94:TYR:HE2	31:BH:96:ALA:CB	2.19	0.56
34:BM:53:VAL:CA	34:BM:121:LYS:O	2.45	0.56
35:BN:59:LYS:CB	35:BN:84:ALA:O	2.50	0.56
36:BO:74:GLU:HG2	36:BO:112:LEU:HD23	1.88	0.56
37:BP:52:VAL:O	37:BP:53:ALA:C	2.43	0.56
37:BP:63:LYS:HZ2	37:BP:64:ILE:HG13	1.71	0.56
39:BR:17:ARG:O	39:BR:20:ARG:CB	2.54	0.56
39:BR:42:ASP:OD1	39:BR:44:LYS:HD2	2.05	0.56
39:BR:49:VAL:C	39:BR:76:LYS:HZ1	2.09	0.56
24:BA:2320:A:N6	39:BR:4:LEU:CD1	2.69	0.56
24:BA:2296:U:C5	39:BR:5:THR:HG23	2.41	0.56
39:BR:93:LYS:O	39:BR:98:VAL:HG13	2.06	0.56
40:BS:76:PHE:CZ	40:BS:78:LEU:HG	2.41	0.56
41:BT:46:ALA:HA	41:BT:49:HIS:ND1	2.20	0.56
42:BU:73:SER:OG	42:BU:89:GLN:NE2	2.39	0.56
42:BU:65:GLY:CA	42:BU:97:LYS:HZ1	2.19	0.56
43:BV:72:LYS:CB	43:BV:108:GLY:HA3	2.36	0.56
44:BW:24:GLY:O	44:BW:82:GLN:HG3	2.06	0.56
46:BY:39:VAL:HG22	46:BY:44:PHE:HE2	1.65	0.56
47:BZ:12:ASN:O	47:BZ:14:ARG:HG2	2.06	0.56
47:BZ:50:ASN:HB2	47:BZ:81:VAL:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2163:C:C2'	24:BA:2164:C:H5'	2.36	0.56
33:BL:61:ALA:O	33:BL:62:ASP:HB2	2.06	0.56
24:BA:2184:G:H2'	24:BA:2184:G:N3	2.21	0.56
1:AA:1004:A:H5''	1:AA:1025:U:C5	2.41	0.55
1:AA:1077:G:H21	1:AA:1079:G:H3'	1.64	0.55
1:AA:1069:C:H1'	1:AA:1191:A:C2	2.40	0.55
1:AA:1204:A:H2'	1:AA:1205:U:H5'	1.87	0.55
1:AA:1259:C:O5'	1:AA:1259:C:H6	1.89	0.55
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.24	0.55
1:AA:978:A:N1	1:AA:1318:A:C6	2.74	0.55
1:AA:1222:G:OP2	1:AA:1322:C:H5	1.89	0.55
1:AA:1377:A:H5''	1:AA:1378:C:C6	2.41	0.55
1:AA:1430:C:C2	1:AA:1431:C:C5	2.93	0.55
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.24	0.55
1:AA:1516:G:N2	1:AA:1518:A:P	2.79	0.55
1:AA:1528:U:HO2'	1:AA:1529:G:H3'	1.68	0.55
1:AA:68:G:H4'	1:AA:171:A:O4'	2.06	0.55
1:AA:250:A:H5'	1:AA:252:U:O4'	2.05	0.55
1:AA:432:A:N7	1:AA:433:C:C6	2.74	0.55
1:AA:454:C:H5''	1:AA:455:C:OP2	2.06	0.55
1:AA:373:A:C6	1:AA:482:A:N6	2.74	0.55
1:AA:587:G:N3	1:AA:755:G:C2	2.74	0.55
1:AA:768:A:N6	1:AA:769:G:C6	2.74	0.55
1:AA:949:A:O2'	1:AA:971:G:N2	2.39	0.55
4:AE:113:HIS:HA	4:AE:116:GLU:CD	2.26	0.55
2:A1:12:U:OP1	4:AE:37:ASN:HB2	2.05	0.55
4:AE:97:TRP:CZ2	4:AE:102:LEU:CD1	2.82	0.55
5:AF:3:ASN:CG	5:AF:4:LYS:N	2.59	0.55
5:AF:59:ARG:CZ	5:AF:64:VAL:HG22	2.36	0.55
6:AG:185:PHE:HD2	6:AG:186:LEU:H	1.54	0.55
8:AI:46:ARG:NH2	20:AU:37:VAL:CG2	2.68	0.55
9:AJ:85:TYR:HD1	9:AJ:154:TYR:CE1	2.24	0.55
10:AK:6:ILE:HD12	10:AK:85:ARG:HD3	1.88	0.55
11:AL:114:TYR:CE1	12:AM:60:ARG:NH1	2.74	0.55
11:AL:49:PRO:HD3	11:AL:78:LYS:NZ	2.20	0.55
13:AN:44:SER:N	13:AN:47:VAL:HG21	2.21	0.55
13:AN:71:LYS:HG3	13:AN:72:ALA:H	1.71	0.55
14:AO:85:ILE:CD1	14:AO:98:TYR:HB3	2.37	0.55
14:AO:24:VAL:HG13	14:AO:98:TYR:CE2	2.41	0.55
1:AA:728:A:H5'	17:AR:54:ARG:HH22	1.70	0.55
17:AR:71:GLN:N	17:AR:78:TYR:HD1	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:12:LYS:HZ1	18:AS:13:HIS:CD2	2.24	0.55
18:AS:49:LEU:HD12	18:AS:50:LYS:H	1.70	0.55
18:AS:60:LEU:CA	18:AS:64:ALA:HB3	2.28	0.55
23:AX:4:GLY:C	23:AX:6:ARG:N	2.57	0.55
23:AX:6:ARG:HH11	23:AX:15:ARG:NH2	2.03	0.55
48:B1:15:GLU:O	48:B1:16:LEU:C	2.44	0.55
50:B3:22:ILE:O	50:B3:22:ILE:HG22	2.06	0.55
50:B3:38:LYS:HG2	50:B3:40:HIS:HD1	1.71	0.55
24:BA:2884:U:H3	51:B4:40:LYS:NZ	2.03	0.55
51:B4:46:CYS:H	51:B4:50:GLY:HA2	1.71	0.55
51:B4:9:LYS:CD	51:B4:10:LYS:H	2.19	0.55
24:BA:2286:A:N6	52:B5:29:ASN:C	2.59	0.55
24:BA:1029:A:H2'	24:BA:1030:G:C4'	2.36	0.55
24:BA:1083:U:C2	24:BA:1085:A:C8	2.94	0.55
24:BA:112:U:H2'	24:BA:112:U:O2	2.06	0.55
24:BA:1364:G:OP1	50:B3:3:GLU:HB2	2.06	0.55
24:BA:13:A:C8	24:BA:15:G:O6	2.59	0.55
24:BA:1407:C:C2	24:BA:1408:C:C5	2.94	0.55
24:BA:1477:A:C2	24:BA:1516:U:C2	2.94	0.55
24:BA:1515:C:OP1	24:BA:1515:C:C6	2.59	0.55
24:BA:1649:G:C2	24:BA:1650:G:N7	2.74	0.55
24:BA:186:G:O2'	24:BA:187:G:H5'	2.06	0.55
24:BA:1935:G:N2	24:BA:1962:C:C2'	2.69	0.55
24:BA:1946:U:H2'	24:BA:1947:C:H6	1.71	0.55
24:BA:1956:U:O2'	24:BA:1985:G:H4'	2.06	0.55
24:BA:2003:G:N1	24:BA:2004:G:C2	2.74	0.55
24:BA:2051:A:H1'	28:BE:141:ILE:HD11	1.88	0.55
24:BA:2238:G:H2'	24:BA:2239:G:H5''	1.87	0.55
24:BA:2274:A:N7	24:BA:2276:G:C8	2.74	0.55
24:BA:2361:A:H3'	24:BA:2362:G:C8	2.28	0.55
24:BA:2478:A:O4'	55:B8:31:LYS:NZ	2.39	0.55
24:BA:2486:G:N1	24:BA:2487:G:C5	2.75	0.55
24:BA:2560:C:C2'	24:BA:2561:A:H5'	2.36	0.55
24:BA:2594:C:H2'	24:BA:2595:G:O4'	2.06	0.55
24:BA:2606:C:C2	24:BA:2607:G:C8	2.93	0.55
24:BA:271(C):U:O4	24:BA:421:U:C4	2.60	0.55
24:BA:2825:C:C6	24:BA:2825:C:O5'	2.52	0.55
24:BA:2851:A:N1	24:BA:2852:G:N3	2.54	0.55
24:BA:609:A:N1	24:BA:619:G:C2	2.74	0.55
24:BA:621:A:C8	24:BA:622:G:C4'	2.89	0.55
24:BA:724:U:H2'	24:BA:725:G:H5'	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:566:U:O2'	24:BA:809:G:OP2	2.17	0.55
24:BA:820:A:N1	24:BA:821:A:N3	2.53	0.55
24:BA:848:G:N2	24:BA:933:A:C4	2.74	0.55
24:BA:904:C:O4'	46:BY:169:GLU:OE1	2.24	0.55
24:BA:930:U:HO2'	24:BA:931:G:P	2.29	0.55
24:BA:946:G:O6	24:BA:972:G:N2	2.38	0.55
27:BD:159:ALA:HA	27:BD:196:VAL:HG11	1.88	0.55
27:BD:90:ALA:CA	27:BD:91:ARG:NH1	2.69	0.55
28:BE:187:ALA:O	28:BE:188:VAL:C	2.44	0.55
28:BE:13:ARG:HE	28:BE:21:VAL:CA	2.18	0.55
29:BF:201:VAL:HG12	29:BF:205:ARG:CZ	2.36	0.55
30:BG:125:PHE:HD2	30:BG:129:GLY:H	1.53	0.55
30:BG:16:ARG:CG	30:BG:16:ARG:NH2	2.68	0.55
30:BG:54:GLU:OE2	30:BG:70:VAL:HG22	2.06	0.55
31:BH:126:PRO:O	31:BH:127:GLU:CG	2.50	0.55
32:BK:26:ALA:CA	32:BK:30:LEU:HD23	2.35	0.55
32:BK:31:LEU:N	32:BK:32:PRO:CD	2.69	0.55
33:BL:20:ALA:HB3	33:BL:21:PRO:CD	2.36	0.55
34:BM:42:TRP:O	34:BM:43:THR:CG2	2.53	0.55
34:BM:49:GLY:O	34:BM:50:ASP:O	2.24	0.55
35:BN:97:ARG:CD	35:BN:118:ALA:HB2	2.36	0.55
35:BN:35:VAL:HG11	35:BN:64:ARG:HD3	1.88	0.55
24:BA:1244:G:C5'	36:BO:9:ASN:CB	2.81	0.55
37:BP:67:ARG:NH2	37:BP:103:MET:C	2.58	0.55
38:BQ:97:VAL:CA	38:BQ:114:VAL:HG22	2.32	0.55
38:BQ:20:LEU:CD1	38:BQ:21:TYR:N	2.69	0.55
38:BQ:7:GLY:O	38:BQ:8:ARG:C	2.45	0.55
39:BR:3:ARG:HG2	39:BR:4:LEU:CG	2.21	0.55
41:BT:105:VAL:HG22	41:BT:109:LEU:HD11	1.87	0.55
41:BT:29:SER:OG	41:BT:30:LYS:HD2	2.06	0.55
41:BT:55:ARG:HH11	41:BT:55:ARG:CG	2.04	0.55
42:BU:3:ALA:HB1	42:BU:44:LYS:NZ	2.21	0.55
41:BT:40:PHE:HD2	42:BU:84:LYS:HG2	1.71	0.55
44:BW:63:LYS:CA	44:BW:63:LYS:HE2	2.35	0.55
45:BX:75:ILE:N	45:BX:100:ALA:HB1	2.18	0.55
46:BY:29:TYR:CD1	46:BY:72:ARG:NH2	2.74	0.55
47:BZ:70:GLN:O	47:BZ:78:TYR:O	2.23	0.55
26:BC:7:TYR:CE2	26:BC:11:LEU:HD13	2.41	0.55
24:BA:1488:G:C3'	24:BA:1489:U:C5'	2.83	0.55
24:BA:1510:A:H5'	24:BA:1511:A:OP2	2.06	0.55
24:BA:41:C:C2	24:BA:43:G:C8	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1017:G:H2'	1:AA:1018:C:H6	1.71	0.55
1:AA:1109:C:OP2	5:AF:176:HIS:CD2	2.59	0.55
1:AA:1125:U:OP2	1:AA:1126:U:O4	2.24	0.55
1:AA:1234:C:C4'	1:AA:1364:U:H1'	2.34	0.55
1:AA:1319:A:C5'	21:AV:5:LEU:HD21	2.36	0.55
1:AA:1332:A:H2'	1:AA:1332:A:N3	2.21	0.55
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.22	0.55
1:AA:1428:A:C6	1:AA:1429:C:N4	2.75	0.55
1:AA:1464:G:N3	1:AA:1465:C:C5	2.74	0.55
1:AA:155:C:C2	1:AA:167:G:C2	2.94	0.55
1:AA:476:G:O2'	1:AA:477:G:H5'	2.06	0.55
1:AA:545:C:OP2	6:AG:62:GLN:OE1	2.23	0.55
1:AA:781:A:H4'	1:AA:1522:U:HO2'	1.67	0.55
1:AA:878:G:O4'	10:AK:3:THR:HG21	2.06	0.55
1:AA:886:G:C2'	1:AA:887:G:C5'	2.82	0.55
1:AA:966:G:C2'	1:AA:967:C:O5'	2.54	0.55
1:AA:974:A:P	16:AQ:31:ARG:HG2	2.46	0.55
1:AA:9:G:H3'	7:AH:126:ARG:NH1	2.21	0.55
3:AC:50:U:O2'	3:AC:51:U:H5'	2.05	0.55
3:AC:73:A:O2'	3:AC:74:C:P	2.64	0.55
4:AE:149:LEU:O	4:AE:151:GLY:N	2.39	0.55
4:AE:176:GLU:O	4:AE:180:LEU:CG	2.52	0.55
4:AE:31:TYR:OH	4:AE:200:ILE:HD13	2.07	0.55
5:AF:47:LEU:CD1	5:AF:83:ARG:NH2	2.70	0.55
1:AA:402:G:P	6:AG:74:GLN:HE21	2.28	0.55
6:AG:80:GLU:CA	6:AG:83:SER:OG	2.54	0.55
7:AH:43:LEU:HB3	7:AH:136:MET:HE1	1.87	0.55
7:AH:20:GLN:NE2	7:AH:21:ALA:H	2.03	0.55
7:AH:72:GLN:HE21	7:AH:144:THR:HG23	1.71	0.55
8:AI:49:ALA:HB3	20:AU:79:LEU:CA	2.36	0.55
9:AJ:36:LYS:HA	9:AJ:36:LYS:HZ2	1.68	0.55
9:AJ:97:GLN:O	9:AJ:98:SER:C	2.45	0.55
11:AL:16:ARG:NH1	11:AL:64:THR:HG21	2.21	0.55
12:AM:26:ALA:C	12:AM:28:ARG:H	2.09	0.55
14:AO:26:ALA:O	14:AO:27:LEU:HB3	2.06	0.55
14:AO:64:TYR:C	14:AO:65:GLU:HG3	2.25	0.55
1:AA:1329:A:H5''	15:AP:29:ARG:CG	2.37	0.55
12:AM:47:PHE:CE2	16:AQ:37:PHE:HZ	2.24	0.55
17:AR:42:HIS:O	17:AR:43:LEU:C	2.45	0.55
18:AS:72:ARG:NH2	18:AS:73:LEU:HD23	2.19	0.55
19:AT:28:PRO:C	19:AT:36:ILE:HD11	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:86:GLU:O	19:AT:89:LEU:HB2	2.06	0.55
20:AU:34:TYR:HE1	20:AU:35:ARG:HE	1.53	0.55
21:AV:62:ILE:HD11	21:AV:67:VAL:CG1	2.35	0.55
22:AW:81:LYS:HB3	22:AW:85:MET:CE	2.36	0.55
49:B2:6:VAL:HG12	49:B2:55:ARG:C	2.27	0.55
53:B6:5:TRP:HZ3	53:B6:12:ARG:NH1	2.04	0.55
24:BA:1069:A:C4'	24:BA:1070:A:O5'	2.54	0.55
24:BA:1061:U:O3'	24:BA:1070:A:O4'	2.24	0.55
24:BA:1073:A:N7	24:BA:1074:G:C6	2.75	0.55
24:BA:1127:A:C8	24:BA:1127:A:C3'	2.89	0.55
24:BA:1142(A):A:N6	24:BA:1143:A:C8	2.74	0.55
24:BA:996:A:N6	24:BA:1160:G:C6	2.75	0.55
24:BA:1314:C:O2'	24:BA:1315:C:H5'	2.05	0.55
24:BA:1366:A:C5'	50:B3:1:MET:N	2.69	0.55
24:BA:1354:A:H62	24:BA:1377:G:H21	1.53	0.55
24:BA:1447:G:H1'	24:BA:1545(A):A:C1'	2.36	0.55
24:BA:1449:A:C2	24:BA:1449(A):G:N9	2.75	0.55
24:BA:1456:G:C2	24:BA:1457:A:C8	2.95	0.55
24:BA:1460:A:N1	24:BA:1732:A:C6	2.74	0.55
24:BA:1473:G:C2'	24:BA:1474:C:O4'	2.54	0.55
24:BA:1650:G:N2	24:BA:1651:G:C1'	2.62	0.55
24:BA:1697:G:C8	24:BA:1698:A:C5'	2.85	0.55
24:BA:184:C:H2'	24:BA:185:U:C5	2.41	0.55
24:BA:1936:A:C4	24:BA:1940:U:N3	2.75	0.55
24:BA:1900:A:H2	24:BA:1970:A:C6	2.24	0.55
24:BA:1975:G:H2'	24:BA:1976:U:O5'	2.06	0.55
24:BA:1993:U:C6	24:BA:1993:U:H3'	2.41	0.55
24:BA:2091:U:C3'	24:BA:2092:U:H5'	2.36	0.55
24:BA:2208:U:O2'	24:BA:2217:G:N2	2.39	0.55
24:BA:2281:C:O2'	24:BA:2282:G:O5'	2.22	0.55
24:BA:2346:A:H4'	24:BA:2383:G:O4'	2.05	0.55
24:BA:2412:A:C8	24:BA:2413:G:C8	2.94	0.55
24:BA:2436:G:O2'	24:BA:2437:U:H5'	2.06	0.55
24:BA:2498:C:C3'	24:BA:2499:C:H5''	2.37	0.55
24:BA:270(F):U:C4	24:BA:270(G):C:C5	2.94	0.55
24:BA:2718:G:C5	24:BA:2719:G:C5	2.94	0.55
24:BA:2748:A:N3	31:BH:67:LEU:HD11	2.20	0.55
24:BA:2749:A:C2	24:BA:2757:A:N1	2.74	0.55
24:BA:343:C:HO2'	24:BA:344:G:H5'	1.69	0.55
24:BA:348:G:N3	24:BA:349:G:C8	2.75	0.55
24:BA:410:G:H8	24:BA:410:G:O5'	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:641:C:N4	24:BA:646:A:N6	2.54	0.55
24:BA:771:G:N1	24:BA:772:C:C4	2.74	0.55
24:BA:785:G:C4	24:BA:786:C:C5	2.94	0.55
24:BA:840:C:H4'	24:BA:1192:G:O2'	2.06	0.55
24:BA:945:A:C4'	24:BA:945:A:OP1	2.54	0.55
24:BA:945:A:H2'	24:BA:946:G:C5'	2.36	0.55
24:BA:960:A:C4	24:BA:962:G:C8	2.94	0.55
25:BB:33:G:H2'	25:BB:34:U:C5	2.38	0.55
25:BB:57:A:O4'	30:BG:29:TRP:CH2	2.59	0.55
27:BD:133:LEU:CB	27:BD:136:ILE:HD11	2.26	0.55
24:BA:2216:G:H21	27:BD:150:LYS:NZ	2.02	0.55
24:BA:1566:A:C2	27:BD:215:LEU:HD22	2.41	0.55
27:BD:63:ARG:HD3	27:BD:65:ILE:HD11	1.88	0.55
28:BE:147:PRO:HD2	28:BE:148:GLY:H	1.72	0.55
28:BE:170:LEU:N	28:BE:170:LEU:CD2	2.67	0.55
24:BA:37:C:O2'	29:BF:50:SER:CB	2.54	0.55
29:BF:71:GLY:O	29:BF:73:ALA:N	2.31	0.55
30:BG:128:ARG:CZ	30:BG:130:ASN:HD21	2.19	0.55
30:BG:110:ALA:CB	30:BG:139:LEU:HG	2.31	0.55
30:BG:148:MET:HG2	30:BG:151:ALA:H	1.70	0.55
30:BG:76:SER:O	30:BG:82:LEU:O	2.24	0.55
31:BH:74:ASN:ND2	31:BH:75:ALA:N	2.53	0.55
31:BH:76:VAL:HA	31:BH:79:VAL:CG2	2.36	0.55
31:BH:7:LEU:HB2	31:BH:52:VAL:O	2.06	0.55
33:BL:99:ILE:HG22	33:BL:100:THR:N	2.21	0.55
33:BL:105:LEU:N	33:BL:105:LEU:HD23	2.20	0.55
24:BA:558:G:H5''	34:BM:109:LYS:CD	2.37	0.55
35:BN:63:VAL:HG12	35:BN:99:PHE:CZ	2.41	0.55
36:BO:124:LYS:HA	36:BO:138:LEU:HD23	1.87	0.55
38:BQ:104:ARG:NH2	38:BQ:107:ASP:OD1	2.38	0.55
38:BQ:24:GLN:O	38:BQ:25:ALA:C	2.44	0.55
38:BQ:33:ARG:NH2	51:B4:56:LYS:HE2	2.21	0.55
38:BQ:45:ARG:O	38:BQ:46:GLY:C	2.42	0.55
39:BR:106:ARG:CD	39:BR:107:GLU:OE2	2.54	0.55
35:BN:75:SER:O	40:BS:77:PRO:O	2.23	0.55
40:BS:85:LYS:HZ3	40:BS:85:LYS:N	2.04	0.55
43:BV:33:ARG:NE	43:BV:33:ARG:HA	2.14	0.55
44:BW:26:TYR:CB	44:BW:28:PHE:CZ	2.88	0.55
45:BX:37:VAL:CG1	45:BX:64:GLU:HG2	2.34	0.55
46:BY:104:PHE:HD2	46:BY:104:PHE:N	2.03	0.55
46:BY:56:VAL:HG13	46:BY:133:ILE:CD1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:5:LEU:HB2	46:BY:23:LYS:HZ3	1.71	0.55
26:BC:103:ILE:CD1	26:BC:110:PHE:HZ	2.20	0.55
26:BC:83:ILE:HD11	26:BC:95:GLY:HA2	1.88	0.55
2:A1:10:U:O2	2:A1:12:U:H5''	2.06	0.55
2:A1:31:U:O2'	2:A1:32:U:H5'	2.07	0.55
1:AA:1014:A:H4'	21:AV:14:HIS:ND1	2.20	0.55
1:AA:1269:A:H5'	1:AA:1326:C:H4'	1.87	0.55
1:AA:1494:G:O2'	1:AA:1495:U:C6	2.57	0.55
1:AA:815:A:C2	1:AA:1529:G:N2	2.74	0.55
1:AA:277:C:OP2	19:AT:41:LYS:NZ	2.34	0.55
1:AA:378:G:H2'	1:AA:379:C:H6	1.71	0.55
1:AA:529:G:H1	14:AO:49:ASN:CB	2.15	0.55
1:AA:60:A:H62	1:AA:110:C:H42	1.53	0.55
1:AA:679:C:H2'	1:AA:680:C:C6	2.40	0.55
1:AA:815:A:C8	1:AA:819:A:C2	2.94	0.55
1:AA:859:A:C2'	1:AA:860:A:C5'	2.84	0.55
1:AA:866:C:C5	1:AA:867:G:C1'	2.86	0.55
1:AA:945:G:N2	1:AA:1337:G:C2	2.75	0.55
3:AB:9:A:O2'	3:AB:45:U:H2'	2.06	0.55
4:AE:115:LEU:HD22	4:AE:145:LEU:HG	1.88	0.55
4:AE:75:LYS:NZ	4:AE:75:LYS:CA	2.69	0.55
4:AE:84:GLU:HA	4:AE:84:GLU:OE2	2.06	0.55
6:AG:21:LEU:CD1	6:AG:67:ILE:HG22	2.34	0.55
7:AH:102:ALA:CB	7:AH:120:THR:HG22	2.32	0.55
7:AH:106:PRO:HG3	7:AH:122:GLU:OE2	2.07	0.55
7:AH:91:LEU:HG	7:AH:92:LYS:N	2.21	0.55
8:AI:55:ASP:OD2	8:AI:86:ARG:NH1	2.39	0.55
9:AJ:111:ARG:CZ	9:AJ:112:PRO:HD2	2.36	0.55
9:AJ:49:ILE:H	9:AJ:49:ILE:HD12	1.72	0.55
10:AK:114:THR:C	10:AK:116:LYS:H	2.09	0.55
10:AK:19:VAL:HB	10:AK:21:LYS:CG	2.35	0.55
11:AL:78:LYS:NZ	11:AL:101:PHE:HE2	1.96	0.55
11:AL:17:VAL:HG11	11:AL:81:ILE:HA	1.88	0.55
11:AL:81:ILE:O	11:AL:84:ALA:HB3	2.07	0.55
12:AM:28:ARG:HG2	12:AM:28:ARG:HH11	1.71	0.55
13:AN:112:THR:O	13:AN:112:THR:HG22	2.06	0.55
13:AN:83:ILE:HD12	13:AN:83:ILE:N	2.21	0.55
1:AA:562:C:O2	14:AO:15:ARG:O	2.23	0.55
14:AO:5:PRO:O	14:AO:6:THR:OG1	2.23	0.55
18:AS:18:ARG:HH11	18:AS:20:VAL:HG21	1.71	0.55
18:AS:52:ASP:C	18:AS:52:ASP:OD2	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:66:SER:HB3	19:AT:69:LYS:HZ3	1.70	0.55
21:AV:47:HIS:O	21:AV:61:TYR:HA	2.06	0.55
48:B1:41:GLN:O	48:B1:44:LYS:N	2.39	0.55
53:B6:43:THR:O	53:B6:46:VAL:CB	2.54	0.55
53:B6:5:TRP:CE3	53:B6:5:TRP:HA	2.42	0.55
24:BA:1024:G:C3'	24:BA:1025:G:H5''	2.35	0.55
24:BA:1034:G:C6	24:BA:1035:U:C4	2.95	0.55
24:BA:108:U:H2'	24:BA:109:G:H8	1.71	0.55
24:BA:1163:G:C6	24:BA:1164:G:N7	2.74	0.55
24:BA:1221:C:N3	24:BA:1229:G:N1	2.54	0.55
24:BA:1269:A:O5'	24:BA:1269:A:H8	1.90	0.55
24:BA:1344:G:H4'	24:BA:1384:A:C6	2.41	0.55
24:BA:1392:A:H2'	24:BA:1393:A:C8	2.42	0.55
24:BA:141:A:H2	24:BA:1597:A:H5'	1.71	0.55
24:BA:1565:C:C4	24:BA:1567:A:C8	2.94	0.55
24:BA:1698:A:O2'	24:BA:1699:G:P	2.65	0.55
24:BA:1780:A:O5'	24:BA:1781:C:H3'	2.06	0.55
24:BA:1780:A:P	24:BA:1782:C:OP1	2.64	0.55
24:BA:1784:A:H4'	24:BA:1785:A:C8	2.42	0.55
24:BA:1826:G:N2	24:BA:1970:A:C2	2.73	0.55
24:BA:1842:G:O2'	24:BA:1843:C:C5'	2.54	0.55
24:BA:18:C:H4'	41:BT:23:GLY:O	2.06	0.55
24:BA:1954:G:H2'	24:BA:1956:U:O4	2.06	0.55
24:BA:197:A:H3'	24:BA:198:C:H6	1.67	0.55
24:BA:2041:U:O2	24:BA:2042:A:C8	2.60	0.55
24:BA:2047:U:O2'	24:BA:2048:G:O5'	2.24	0.55
24:BA:2051:A:C6	24:BA:2614:A:C6	2.94	0.55
24:BA:2346:A:H5'	24:BA:2383:G:O4'	2.06	0.55
24:BA:2287:A:C2	24:BA:2346:A:N6	2.74	0.55
24:BA:236:C:N3	24:BA:237:C:C5	2.74	0.55
24:BA:2436:G:C5	24:BA:2437:U:C4	2.94	0.55
24:BA:2437:U:C2	24:BA:2438:U:C5	2.94	0.55
24:BA:2520:C:H2'	24:BA:2521:C:H6	1.71	0.55
24:BA:2530:A:H3'	24:BA:2531:A:H5''	1.85	0.55
24:BA:2595:G:N3	24:BA:2599:G:N1	2.54	0.55
24:BA:270(E):G:OP2	24:BA:270(E):G:C8	2.60	0.55
24:BA:270(X):G:C2	24:BA:270(Y):G:H1'	2.41	0.55
24:BA:2717:G:C2	24:BA:2718:G:C5	2.94	0.55
24:BA:2815:C:C2	24:BA:2816:C:C5	2.94	0.55
24:BA:2825:C:C4	24:BA:2826:A:N7	2.74	0.55
24:BA:2895:U:H2'	24:BA:2896:C:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:475:U:OP2	24:BA:475:U:C6	2.59	0.55
24:BA:662:G:N1	24:BA:663:G:O6	2.39	0.55
24:BA:714:U:O2	24:BA:715:G:H8	1.89	0.55
24:BA:754:C:O2'	24:BA:755:C:H5'	2.05	0.55
24:BA:775:G:N2	24:BA:788:A:OP2	2.38	0.55
24:BA:824:A:C3'	24:BA:825:C:C5	2.89	0.55
24:BA:833:U:C1'	36:BO:48:PRO:HD2	2.36	0.55
24:BA:86:C:O5'	24:BA:86:C:H6	1.89	0.55
24:BA:887:A:O3'	24:BA:889:C:H5'	2.06	0.55
24:BA:848:G:C2	24:BA:931:G:O6	2.58	0.55
25:BB:61:G:C6	25:BB:62:C:N4	2.74	0.55
25:BB:77:U:H5	25:BB:98:G:N2	2.04	0.55
25:BB:7:G:O2'	25:BB:8:U:OP1	2.25	0.55
27:BD:150:LYS:O	27:BD:152:GLY:N	2.39	0.55
27:BD:260:ARG:HB2	27:BD:260:ARG:HH11	1.71	0.55
27:BD:28:GLU:N	27:BD:29:PRO:CD	2.70	0.55
27:BD:54:ARG:C	27:BD:219:PRO:CD	2.74	0.55
27:BD:5:LYS:HE2	27:BD:29:PRO:HA	1.88	0.55
27:BD:77:ALA:HB1	27:BD:95:LEU:CG	2.36	0.55
28:BE:105:THR:HB	28:BE:166:THR:OG1	2.05	0.55
28:BE:113:PHE:CA	28:BE:158:GLY:HA2	2.35	0.55
28:BE:171:GLU:OE1	28:BE:172:VAL:HG22	2.05	0.55
29:BF:16:GLY:C	29:BF:17:ARG:HD3	2.27	0.55
29:BF:196:LEU:HD22	29:BF:199:TRP:NE1	2.21	0.55
30:BG:20:ILE:HG22	30:BG:21:ARG:N	2.22	0.55
30:BG:80:PHE:HD1	30:BG:81:LYS:H	1.44	0.55
31:BH:107:VAL:O	31:BH:107:VAL:CG2	2.54	0.55
31:BH:33:LEU:HD22	31:BH:35:VAL:HG22	1.89	0.55
31:BH:95:ARG:N	31:BH:95:ARG:HD2	2.20	0.55
32:BK:5:LEU:HD21	32:BK:18:VAL:HA	1.87	0.55
32:BK:9:LEU:HG	32:BK:17:GLN:OE1	2.06	0.55
34:BM:126:PRO:O	34:BM:127:ASP:CB	2.53	0.55
34:BM:54:VAL:C	34:BM:130:HIS:NE2	2.59	0.55
34:BM:39:ARG:HG2	34:BM:40:PRO:CD	2.36	0.55
34:BM:4:TYR:CZ	41:BT:101:ARG:CZ	2.88	0.55
34:BM:99:LEU:CG	34:BM:100:GLU:N	2.69	0.55
24:BA:2000:G:OP2	38:BQ:2:ARG:HG2	2.06	0.55
40:BS:113:LYS:O	40:BS:116:ALA:N	2.39	0.55
40:BS:30:VAL:C	40:BS:32:TYR:OH	2.44	0.55
24:BA:2848:G:C1'	40:BS:99:LEU:HD21	2.37	0.55
41:BT:49:HIS:HA	41:BT:52:ARG:NE	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:52:ARG:C	41:BT:54:LYS:N	2.59	0.55
42:BU:6:LYS:CD	42:BU:10:LYS:HG2	2.27	0.55
41:BT:47:TYR:CZ	42:BU:76:LYS:O	2.59	0.55
43:BV:86:LEU:HB3	43:BV:87:PRO:HD2	1.88	0.55
24:BA:64:A:HO2'	44:BW:71:GLY:HA3	1.71	0.55
46:BY:127:LYS:HA	46:BY:164:ALA:N	2.21	0.55
32:BK:123:LEU:CD1	32:BK:144:VAL:HG13	2.36	0.55
3:AD:21:A:N1	3:AD:46:G:N2	2.42	0.55
1:AA:1065:U:C5	1:AA:1190:G:H1'	2.42	0.55
1:AA:1452:C:H5'	1:AA:1453:G:N3	2.22	0.55
1:AA:170:U:O2'	1:AA:171:A:H5'	2.07	0.55
1:AA:319:G:C2'	1:AA:320:C:H5'	2.36	0.55
1:AA:352:C:C6	1:AA:352:C:OP1	2.60	0.55
1:AA:483:C:H6	1:AA:483:C:O5'	1.88	0.55
1:AA:521:G:O6	14:AO:49:ASN:ND2	2.40	0.55
1:AA:624:C:H2'	1:AA:625:G:C8	2.38	0.55
1:AA:575:G:N1	1:AA:821:G:N7	2.53	0.55
1:AA:902:G:H2'	1:AA:903:G:H8	1.70	0.55
3:AB:13:C:H2'	3:AB:14:A:C5'	2.35	0.55
3:AB:30:G:O2'	3:AB:31:A:H5'	2.06	0.55
3:AB:34:G:N1	3:AB:35:A:H1'	2.19	0.55
3:AC:10:G:C8	3:AC:10:G:O5'	2.59	0.55
3:AD:70:G:H2'	3:AD:71:G:H8	1.70	0.55
4:AE:101:MET:C	4:AE:103:THR:N	2.59	0.55
4:AE:147:LYS:CA	4:AE:147:LYS:HE2	2.36	0.55
4:AE:54:THR:HG23	4:AE:199:TYR:CB	2.36	0.55
4:AE:69:LEU:HD22	4:AE:91:PRO:CB	2.36	0.55
5:AF:65:ALA:O	5:AF:66:VAL:HB	2.06	0.55
6:AG:100:ARG:HH22	6:AG:137:SER:CA	2.13	0.55
6:AG:171:GLY:HA3	6:AG:173:TRP:HZ3	1.71	0.55
6:AG:20:TYR:HB2	6:AG:27:TYR:CA	2.36	0.55
7:AH:105:VAL:HG12	7:AH:106:PRO:CD	2.36	0.55
7:AH:118:ILE:C	7:AH:119:LEU:CD2	2.74	0.55
8:AI:14:LEU:CD1	8:AI:19:LEU:N	2.66	0.55
8:AI:36:ARG:HB2	8:AI:36:ARG:NH1	2.20	0.55
9:AJ:75:VAL:CG2	9:AJ:88:PRO:HB3	2.36	0.55
10:AK:23:SER:O	10:AK:24:THR:HB	2.07	0.55
13:AN:100:ALA:C	13:AN:102:GLY:N	2.59	0.55
14:AO:45:PRO:HG2	14:AO:49:ASN:O	2.06	0.55
15:AP:87:TYR:HD1	21:AV:73:GLU:CB	2.19	0.55
17:AR:79:ARG:HA	17:AR:82:ILE:HG13	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:104:LYS:CG	19:AT:105:ALA:H	2.19	0.55
19:AT:44:ALA:HB1	19:AT:71:PHE:O	2.06	0.55
19:AT:87:LYS:O	19:AT:91:ARG:HB3	2.06	0.55
21:AV:11:VAL:HG13	21:AV:38:SER:OG	2.06	0.55
21:AV:40:ILE:HD11	21:AV:71:LEU:HD23	1.88	0.55
22:AW:53:LEU:HD21	22:AW:92:LEU:CD1	2.37	0.55
48:B1:63:ARG:HH21	48:B1:63:ARG:HB3	1.71	0.55
24:BA:988:A:H5''	49:B2:10:LYS:HE3	1.87	0.55
49:B2:40:THR:O	49:B2:41:PRO:C	2.40	0.55
51:B4:20:ARG:HA	51:B4:23:HIS:HD2	1.70	0.55
51:B4:51:TYR:CD1	51:B4:55:ARG:N	2.75	0.55
54:B7:23:VAL:HG11	54:B7:46:ARG:HB3	1.87	0.55
24:BA:594:U:C5'	54:B7:61:LEU:HD13	2.33	0.55
54:B7:7:HIS:C	54:B7:11:LYS:HE3	2.26	0.55
24:BA:1015:G:O2'	24:BA:1016:G:H5'	2.06	0.55
24:BA:1134:G:C5	24:BA:1136:G:OP2	2.59	0.55
24:BA:1179:C:OP2	24:BA:1179:C:H6	1.90	0.55
24:BA:1201:C:N4	24:BA:1241:A:H62	2.04	0.55
24:BA:1256:G:C5	24:BA:1257:C:C5	2.94	0.55
24:BA:1540:G:C2'	24:BA:1541:U:H5'	2.36	0.55
24:BA:1655:A:H61	24:BA:2005:A:C1'	2.18	0.55
24:BA:1670:C:C6	24:BA:1671:U:C5	2.94	0.55
24:BA:1742:C:C6	24:BA:1743:G:H5''	2.41	0.55
24:BA:1749:A:O2'	24:BA:1750:G:H5'	2.05	0.55
24:BA:179:G:H3'	24:BA:180:G:H8	1.70	0.55
24:BA:1811:G:H2'	24:BA:1812:A:O4'	2.06	0.55
24:BA:1818:U:C2'	24:BA:1818:U:O2	2.55	0.55
3:AD:71:G:H1'	24:BA:1851:U:O2'	2.06	0.55
24:BA:1912:A:H8	24:BA:1913:A:H1'	1.70	0.55
24:BA:1655:A:N6	24:BA:2005:A:O2'	2.39	0.55
24:BA:2066:C:C4	24:BA:2067:G:N7	2.74	0.55
24:BA:2266:A:C5'	24:BA:2267:A:N3	2.66	0.55
24:BA:2300:G:O2'	24:BA:2301:C:H5'	2.07	0.55
24:BA:2347:C:C5	24:BA:2382:G:H1'	2.41	0.55
24:BA:2529:G:H5''	24:BA:2530:A:C5'	2.37	0.55
24:BA:257:A:O2'	24:BA:258:G:H5'	2.06	0.55
24:BA:2748:A:N6	24:BA:2756:U:C2	2.74	0.55
24:BA:2756:U:O2'	24:BA:2757:A:C5'	2.55	0.55
24:BA:108:U:H4'	24:BA:348:G:C2	2.41	0.55
24:BA:526:A:C2	24:BA:2626:C:O4'	2.58	0.55
24:BA:558:G:O2'	24:BA:559:G:H5''	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:559:G:O2'	24:BA:560:C:O5'	2.16	0.55
24:BA:62:C:O5'	24:BA:62:C:H6	1.90	0.55
24:BA:641:C:O2'	24:BA:642:G:H5'	2.06	0.55
24:BA:722:A:N3	24:BA:723:G:C8	2.75	0.55
24:BA:740:U:HO2'	24:BA:741:G:P	2.24	0.55
24:BA:749:C:C6	24:BA:749:C:C3'	2.90	0.55
24:BA:754:C:N3	24:BA:755:C:C5	2.75	0.55
24:BA:768:G:O2'	24:BA:769:G:H5'	2.07	0.55
24:BA:838:C:N3	24:BA:941:A:N7	2.54	0.55
24:BA:850:C:H5''	49:B2:18:ASP:HB2	1.88	0.55
24:BA:873:G:C2	24:BA:874:G:H1'	2.42	0.55
24:BA:922:U:H2'	24:BA:923:C:C6	2.41	0.55
25:BB:80:U:C2	25:BB:81:G:N7	2.74	0.55
25:BB:82:G:C2	25:BB:83:G:N7	2.74	0.55
27:BD:160:GLY:C	27:BD:196:VAL:HG21	2.26	0.55
27:BD:226:MET:HE2	27:BD:237:GLU:H	1.70	0.55
24:BA:2597:G:H5'	27:BD:242:ARG:CD	2.36	0.55
27:BD:5:LYS:O	27:BD:27:THR:CG2	2.54	0.55
27:BD:75:ILE:O	27:BD:76:PRO:C	2.42	0.55
27:BD:7:LYS:CD	27:BD:25:THR:HG22	2.36	0.55
28:BE:148:GLY:O	28:BE:149:ARG:CB	2.54	0.55
28:BE:51:PHE:HZ	28:BE:75:VAL:HG22	1.66	0.55
28:BE:53:PRO:CG	28:BE:75:VAL:HG22	2.31	0.55
28:BE:48:GLN:O	28:BE:77:ILE:HG13	2.05	0.55
29:BF:18:ARG:HG3	29:BF:19:GLU:N	2.21	0.55
30:BG:9:ARG:HD2	30:BG:10:LYS:CE	2.37	0.55
30:BG:62:LEU:HD23	30:BG:143:GLU:HB3	1.86	0.55
31:BH:6:ARG:O	31:BH:69:ARG:HD2	2.06	0.55
34:BM:24:GLY:O	34:BM:27:ALA:N	2.40	0.55
35:BN:64:ARG:HH11	35:BN:67:LYS:CA	2.16	0.55
37:BP:8:LYS:HZ3	37:BP:11:LYS:HE2	1.71	0.55
37:BP:34:LEU:HD21	37:BP:118:LEU:HD22	1.88	0.55
38:BQ:45:ARG:CG	38:BQ:46:GLY:N	2.68	0.55
39:BR:17:ARG:NH1	39:BR:25:ARG:HD2	2.21	0.55
39:BR:24:LEU:HG	39:BR:41:ASP:HA	1.87	0.55
39:BR:76:LYS:HG2	39:BR:77:ALA:N	2.20	0.55
39:BR:93:LYS:O	39:BR:98:VAL:CG1	2.54	0.55
35:BN:122:LEU:C	40:BS:74:ARG:HH22	2.09	0.55
40:BS:28:VAL:HG13	40:BS:92:GLY:C	2.26	0.55
41:BT:111:GLU:CG	41:BT:112:ARG:N	2.70	0.55
41:BT:50:ARG:NE	42:BU:75:PHE:CD2	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:65:ILE:HG21	41:BT:95:LEU:HB2	1.88	0.55
41:BT:91:ASP:CG	42:BU:10:LYS:HD3	2.27	0.55
42:BU:67:GLY:O	42:BU:68:LYS:CB	2.47	0.55
43:BV:16:LYS:HA	43:BV:19:LEU:HD12	1.88	0.55
43:BV:12:ILE:HD12	43:BV:46:PHE:CE2	2.41	0.55
43:BV:98:LYS:C	43:BV:98:LYS:HZ3	2.06	0.55
44:BW:29:TRP:CB	44:BW:76:ARG:HH21	2.19	0.55
44:BW:85:PRO:CB	44:BW:87:GLN:HE21	2.19	0.55
46:BY:50:GLN:C	46:BY:52:SER:H	2.10	0.55
46:BY:99:TYR:CE1	46:BY:124:ILE:HB	2.41	0.55
32:BK:109:ILE:CG2	32:BK:113:ARG:NH2	2.69	0.55
1:AA:1171:G:H2'	1:AA:1172:C:C5	2.40	0.55
2:A1:51:U:O2'	2:A1:52:U:O5'	2.23	0.55
1:AA:1213:A:N6	1:AA:1215:G:C2	2.74	0.55
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.89	0.55
1:AA:179:A:H3'	1:AA:180:U:C6	2.41	0.55
1:AA:266:G:N2	1:AA:270:A:N6	2.53	0.55
1:AA:308:C:H2'	1:AA:309:G:O5'	2.07	0.55
1:AA:38:G:O2'	1:AA:39:G:H5''	2.07	0.55
1:AA:558:G:O5'	1:AA:559:A:H3'	2.06	0.55
1:AA:706:A:H4'	13:AN:29:ILE:HD13	1.88	0.55
1:AA:713:G:H2'	1:AA:714:G:N7	2.20	0.55
1:AA:717:C:C2'	1:AA:718:G:OP2	2.55	0.55
1:AA:766:A:H2'	1:AA:767:A:H8	1.70	0.55
1:AA:858:G:O5'	1:AA:858:G:H8	1.89	0.55
1:AA:902:G:HO2'	1:AA:903:G:H5'	1.68	0.55
1:AA:917:G:O2'	1:AA:918:A:C5'	2.54	0.55
1:AA:939:G:N2	1:AA:940:C:C2	2.75	0.55
1:AA:975:A:C8	1:AA:1365:G:N2	2.74	0.55
1:AA:978:A:H8	1:AA:980:C:N4	2.05	0.55
3:AD:76:A:N7	24:BA:2432:A:C4	2.75	0.55
4:AE:102:LEU:CB	4:AE:180:LEU:CD1	2.84	0.55
4:AE:121:LEU:HD22	4:AE:126:GLU:OE2	2.06	0.55
4:AE:208:ILE:CA	4:AE:211:ILE:HB	2.35	0.55
4:AE:221:LEU:HD13	4:AE:222:ILE:N	2.21	0.55
4:AE:70:PHE:HB3	4:AE:163:PHE:HB3	1.87	0.55
6:AG:107:ARG:HD2	6:AG:174:LEU:HD11	1.89	0.55
6:AG:13:ARG:HB3	6:AG:40:PRO:HD3	1.89	0.55
7:AH:101:ILE:N	7:AH:101:ILE:HD13	2.22	0.55
7:AH:37:ARG:NH1	7:AH:112:LEU:N	2.55	0.55
1:AA:591:U:OP1	10:AK:30:ARG:CZ	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1342:C:C1'	11:AL:124:GLN:OE1	2.49	0.55
14:AO:86:ARG:HH22	14:AO:119:LYS:HG2	1.70	0.55
15:AP:88:ARG:NH2	15:AP:92:HIS:HD2	2.05	0.55
15:AP:99:ARG:NH1	15:AP:99:ARG:HG3	2.19	0.55
12:AM:65:LEU:CB	16:AQ:56:VAL:HG13	2.31	0.55
18:AS:6:LEU:N	18:AS:6:LEU:CD1	2.67	0.55
18:AS:7:ALA:HB3	18:AS:18:ARG:HB2	1.87	0.55
8:AI:95:GLU:C	20:AU:32:ARG:HG3	2.26	0.55
21:AV:12:ASP:C	21:AV:16:LEU:HD22	2.27	0.55
54:B7:8:LYS:N	54:B7:8:LYS:HE2	2.11	0.55
24:BA:1093:G:H21	24:BA:1098:A:N6	2.05	0.55
24:BA:1359:A:O5'	24:BA:1359:A:C8	2.60	0.55
24:BA:1455:G:C2'	24:BA:1456:G:H5'	2.37	0.55
24:BA:1471:A:N6	24:BA:1519:G:N2	2.48	0.55
24:BA:1520:U:C5	24:BA:1520:U:OP2	2.59	0.55
24:BA:1522:G:H3'	24:BA:1522:G:C8	2.41	0.55
24:BA:1680:U:H6	24:BA:1680:U:O5'	1.90	0.55
24:BA:1685:C:H2'	24:BA:1686:C:H6	1.72	0.55
24:BA:1708:C:C2'	24:BA:1709:U:C5'	2.79	0.55
24:BA:172:C:H2'	24:BA:173:G:C8	2.41	0.55
24:BA:1770:G:O2'	24:BA:1771:C:C5'	2.52	0.55
24:BA:1784:A:H4'	24:BA:1785:A:C1'	2.37	0.55
24:BA:1807:G:N2	24:BA:1809:A:H5'	2.22	0.55
24:BA:1834:U:C1'	24:BA:1969:A:H2	2.19	0.55
24:BA:1934:C:H5'	24:BA:1974:C:C4'	2.30	0.55
24:BA:1827:C:C1'	24:BA:1970:A:H2	2.20	0.55
24:BA:1135:C:HO2'	24:BA:2038:G:HO2'	1.53	0.55
24:BA:2286:A:N7	52:B5:31:PRO:HD2	2.21	0.55
24:BA:2309:A:H3'	24:BA:2309:A:N3	2.21	0.55
24:BA:2366:A:N6	24:BA:2367:G:C2	2.74	0.55
24:BA:2443:C:C2	24:BA:2444:G:C8	2.95	0.55
24:BA:2570:G:N2	24:BA:2571:C:N1	2.54	0.55
24:BA:2074:U:HO2'	24:BA:2598:A:H1'	1.71	0.55
24:BA:2617:C:N3	24:BA:2618:G:C8	2.74	0.55
24:BA:2637:U:OP2	24:BA:2637:U:H6	1.87	0.55
24:BA:2688:U:H1'	24:BA:2721:A:N6	2.21	0.55
24:BA:2822:G:N7	38:BQ:4:LEU:HD21	2.21	0.55
24:BA:2881:C:OP1	38:BQ:90:ARG:NH1	2.40	0.55
24:BA:424:G:C2'	24:BA:425:G:H5'	2.35	0.55
24:BA:513:A:C2	24:BA:514:A:H8	2.24	0.55
24:BA:740:U:H2'	24:BA:741:G:O5'	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:783:A:C6	24:BA:785:G:C8	2.95	0.55
24:BA:687:C:O2	24:BA:788:A:P	2.63	0.55
24:BA:947:G:C2'	24:BA:948:G:H5'	2.36	0.55
24:BA:949:C:C2	24:BA:950:G:N7	2.74	0.55
24:BA:819:A:C8	24:BA:973:A:C2	2.94	0.55
25:BB:43:C:O2	30:BG:95:ARG:CB	2.49	0.55
25:BB:48:A:O3'	39:BR:95:HIS:CE1	2.59	0.55
27:BD:102:LYS:O	27:BD:103:ARG:HG3	2.06	0.55
27:BD:126:GLN:O	27:BD:126:GLN:HG3	2.06	0.55
27:BD:132:PRO:O	27:BD:133:LEU:O	2.25	0.55
27:BD:165:ILE:HD12	27:BD:165:ILE:N	2.21	0.55
27:BD:225:ALA:O	27:BD:226:MET:C	2.44	0.55
27:BD:236:GLY:O	27:BD:237:GLU:HG2	2.05	0.55
27:BD:29:PRO:CB	27:BD:31:LYS:NZ	2.70	0.55
24:BA:779:U:OP1	27:BD:50:THR:HB	2.07	0.55
28:BE:166:THR:OG1	28:BE:167:VAL:N	2.36	0.55
28:BE:30:PRO:HB2	28:BE:48:GLN:CB	2.30	0.55
28:BE:4:ILE:HG13	28:BE:27:LEU:CD1	2.34	0.55
29:BF:182:ASN:OD1	29:BF:185:ASP:OD1	2.23	0.55
29:BF:37:VAL:HA	29:BF:184:TYR:CE2	2.41	0.55
24:BA:2306:C:OP1	30:BG:136:ARG:CD	2.53	0.55
30:BG:74:LYS:HB3	30:BG:87:PRO:CG	2.36	0.55
31:BH:152:ARG:HH21	31:BH:152:ARG:HG3	1.71	0.55
31:BH:162:ILE:C	31:BH:163:TYR:CD1	2.80	0.55
31:BH:38:SER:HB3	31:BH:41:MET:SD	2.46	0.55
31:BH:40:GLU:O	31:BH:55:PRO:HD3	2.07	0.55
32:BK:9:LEU:HG	32:BK:17:GLN:NE2	2.21	0.55
33:BL:71:THR:HG1	33:BL:114:ASP:HB3	1.70	0.55
33:BL:112:MET:HE1	33:BL:118:THR:C	2.27	0.55
33:BL:129:GLY:O	33:BL:132:ARG:HB2	2.06	0.55
34:BM:124:ALA:C	34:BM:125:GLY:O	2.38	0.55
35:BN:64:ARG:NH1	35:BN:66:LYS:H	2.04	0.55
37:BP:19:GLY:O	37:BP:20:ALA:HB3	2.06	0.55
37:BP:33:GLY:C	37:BP:34:LEU:HD23	2.26	0.55
37:BP:35:VAL:O	37:BP:35:VAL:HG13	2.06	0.55
37:BP:43:THR:OG1	37:BP:45:GLN:HB2	2.07	0.55
40:BS:23:ARG:NH2	40:BS:88:ILE:O	2.40	0.55
24:BA:519:U:H4'	43:BV:75:TYR:HB2	1.88	0.55
45:BX:19:LYS:HD2	45:BX:40:GLU:OE1	2.06	0.55
45:BX:7:VAL:CG1	45:BX:71:LYS:HB3	2.32	0.55
46:BY:102:LEU:CD1	46:BY:137:ILE:HG22	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2132:U:C3'	24:BA:2133:G:C5'	2.68	0.55
26:BC:4:GLY:O	26:BC:5:LYS:HG3	2.06	0.55
26:BC:64:LEU:HD11	26:BC:161:ILE:HG12	1.86	0.55
26:BC:6:ARG:C	26:BC:8:ARG:N	2.57	0.55
1:AA:1113:C:C2	1:AA:1114:C:C6	2.94	0.55
1:AA:110:C:C2'	1:AA:111:G:H5'	2.37	0.55
1:AA:1158:C:C2'	1:AA:1158:C:O2	2.54	0.55
1:AA:266:G:N2	1:AA:270:A:H62	2.05	0.55
1:AA:327:A:C2	1:AA:329:A:C4	2.95	0.55
1:AA:32:A:H2'	1:AA:33:A:C8	2.41	0.55
1:AA:34:C:O2'	1:AA:35:G:C5'	2.51	0.55
1:AA:355:C:C2	1:AA:356:A:N7	2.75	0.55
1:AA:465:A:N7	1:AA:467:G:N1	2.53	0.55
1:AA:558:G:C3'	1:AA:559:A:C5'	2.72	0.55
1:AA:574:A:H8	1:AA:574:A:O5'	1.89	0.55
1:AA:594:G:N7	1:AA:595:G:N3	2.55	0.55
1:AA:643:C:H5'	10:AK:31:PHE:CZ	2.42	0.55
1:AA:781:A:O2'	1:AA:782:A:OP1	2.24	0.55
3:AB:34:G:C2	3:AB:35:A:C1'	2.79	0.55
3:AC:15:G:N2	3:AC:48:C:H42	1.99	0.55
3:AD:32:U:H1'	9:AJ:86:GLN:NE2	2.21	0.55
4:AE:105:PHE:CD1	4:AE:108:ILE:HB	2.42	0.55
4:AE:115:LEU:HD13	4:AE:145:LEU:HG	1.88	0.55
5:AF:155:GLY:O	5:AF:196:LEU:HB2	2.06	0.55
5:AF:40:ARG:NH1	5:AF:40:ARG:HG3	2.22	0.55
5:AF:5:ILE:N	5:AF:5:ILE:HD12	2.21	0.55
6:AG:50:ARG:CG	6:AG:51:PRO:HD2	2.23	0.55
6:AG:79:PHE:O	6:AG:80:GLU:C	2.45	0.55
7:AH:43:LEU:HD23	7:AH:44:GLY:CA	2.36	0.55
8:AI:50:TYR:CE1	20:AU:81:PHE:CE2	2.95	0.55
9:AJ:78:ARG:O	9:AJ:84:ASN:CA	2.29	0.55
10:AK:44:PHE:O	10:AK:64:LYS:CD	2.55	0.55
10:AK:82:HIS:CD2	10:AK:138:TRP:HE1	2.25	0.55
11:AL:15:ALA:CB	11:AL:77:ILE:N	2.70	0.55
1:AA:1060:C:H4'	12:AM:52:GLY:HA2	1.87	0.55
13:AN:85:ARG:HD2	13:AN:113:PRO:HD2	1.89	0.55
14:AO:7:ILE:HB	14:AO:8:ASN:HD22	1.70	0.55
15:AP:59:TYR:CD2	15:AP:60:VAL:N	2.75	0.55
12:AM:49:VAL:CG1	16:AQ:41:ARG:HD2	2.24	0.55
17:AR:31:LEU:HD12	17:AR:31:LEU:N	2.21	0.55
19:AT:48:GLU:OE1	19:AT:50:LYS:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:3:LYS:O	23:AX:14:TRP:CE3	2.60	0.55
50:B3:42:PHE:CE2	50:B3:43:TYR:O	2.60	0.55
51:B4:44:THR:N	51:B4:52:TYR:OH	2.39	0.55
53:B6:14:LYS:O	53:B6:15:THR:C	2.45	0.55
36:BO:56:SER:CB	54:B7:13:ARG:NE	2.69	0.55
55:B8:10:ILE:HD13	55:B8:14:CYS:SG	2.47	0.55
55:B8:22:ARG:HB3	55:B8:24:TYR:CE1	2.42	0.55
24:BA:1000:A:N1	24:BA:1155:A:C4	2.74	0.55
24:BA:83:G:C6	24:BA:102:G:H1'	2.42	0.55
24:BA:1073:A:N7	24:BA:1074:G:C5	2.75	0.55
24:BA:1062:G:C6	24:BA:1077:A:C4	2.94	0.55
24:BA:1144:G:C4	24:BA:1145:C:C5	2.94	0.55
24:BA:1183:G:P	24:BA:1183:G:H3'	2.47	0.55
24:BA:1419:A:C3'	24:BA:1420:U:O4'	2.55	0.55
24:BA:1428:C:N4	24:BA:1569:A:H5''	2.22	0.55
24:BA:1470:G:C8	24:BA:1470:G:C3'	2.88	0.55
24:BA:1540:G:C4	24:BA:1541:U:H1'	2.41	0.55
24:BA:1791:A:H4'	27:BD:206:LEU:HD23	1.88	0.55
24:BA:1917:U:H3'	24:BA:1917:U:H6	1.71	0.55
24:BA:1930:G:C2'	24:BA:1931:U:OP2	2.55	0.55
24:BA:1936:A:O4'	24:BA:1940:U:C4	2.59	0.55
24:BA:2197:U:OP2	24:BA:2197:U:H3'	2.07	0.55
24:BA:2211:G:H21	24:BA:2212:A:C5'	2.19	0.55
24:BA:2458:G:C8	24:BA:2490:G:O6	2.60	0.55
24:BA:2523:G:H1'	24:BA:2765:A:N6	2.21	0.55
24:BA:2740:A:C6	24:BA:2741:A:N6	2.74	0.55
24:BA:2747:G:C2	24:BA:2754:U:N3	2.75	0.55
24:BA:2740:A:N6	24:BA:2764:A:N9	2.54	0.55
24:BA:328:U:H6	24:BA:328:U:O5'	1.90	0.55
24:BA:458:G:OP1	53:B6:39:ARG:NH1	2.40	0.55
24:BA:619:G:C3'	24:BA:619:G:C8	2.89	0.55
24:BA:763:G:C2'	24:BA:764:A:C5'	2.83	0.55
24:BA:836:G:C5	24:BA:837:C:N4	2.75	0.55
24:BA:838:C:C4	24:BA:839:U:C4	2.94	0.55
24:BA:866:A:N7	24:BA:914:C:O2	2.40	0.55
24:BA:820:A:N7	24:BA:973:A:C6	2.75	0.55
25:BB:74:U:H2'	25:BB:75:G:C1'	2.36	0.55
27:BD:157:ARG:O	27:BD:160:GLY:N	2.40	0.55
24:BA:1819:A:C5'	27:BD:178:PRO:HG3	2.21	0.55
27:BD:221:VAL:O	27:BD:222:ARG:CG	2.52	0.55
27:BD:244:ARG:HA	27:BD:252:TRP:NE1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:133:LYS:HZ2	28:BE:137:HIS:HB3	1.66	0.55
24:BA:2052:G:O5'	28:BE:141:ILE:HG13	2.07	0.55
28:BE:45:THR:HG1	28:BE:46:ALA:H	1.54	0.55
28:BE:55:ASN:ND2	28:BE:73:GLU:HG3	2.22	0.55
29:BF:32:LEU:HD11	29:BF:105:VAL:HG11	1.88	0.55
29:BF:43:LYS:HG3	29:BF:98:SER:CA	2.36	0.55
30:BG:12:TYR:C	30:BG:12:TYR:CD1	2.80	0.55
30:BG:140:ILE:HG22	30:BG:141:PHE:CD1	2.41	0.55
30:BG:36:LYS:HA	30:BG:95:ARG:O	2.07	0.55
31:BH:105:LEU:HD23	31:BH:105:LEU:H	1.68	0.55
31:BH:152:ARG:CZ	31:BH:152:ARG:HB2	2.37	0.55
32:BK:25:TYR:O	32:BK:30:LEU:HD23	2.07	0.55
34:BM:127:ASP:OD1	34:BM:128:HIS:ND1	2.39	0.55
34:BM:67:LEU:O	34:BM:68:GLU:CB	2.54	0.55
35:BN:89:ASN:ND2	35:BN:91:LEU:CB	2.67	0.55
36:BO:99:LEU:CD2	36:BO:101:VAL:HG13	2.35	0.55
37:BP:63:LYS:O	37:BP:106:VAL:HG13	2.06	0.55
38:BQ:14:SER:HA	38:BQ:17:ARG:CD	2.36	0.55
38:BQ:59:ASP:OD1	38:BQ:62:ALA:N	2.39	0.55
38:BQ:63:ARG:HG2	38:BQ:63:ARG:HH11	1.71	0.55
38:BQ:88:ARG:O	38:BQ:89:ASP:CB	2.55	0.55
40:BS:64:ARG:NH2	40:BS:77:PRO:HB2	2.21	0.55
40:BS:85:LYS:HZ3	40:BS:85:LYS:H	1.55	0.55
24:BA:2020:A:OP2	41:BT:27:LEU:HD22	2.06	0.55
41:BT:37:GLU:O	41:BT:38:THR:C	2.44	0.55
41:BT:45:TYR:HB3	41:BT:49:HIS:CE1	2.40	0.55
41:BT:57:PHE:HA	41:BT:60:LEU:CD1	2.36	0.55
42:BU:60:GLU:OE1	42:BU:101:GLY:HA3	2.07	0.55
42:BU:40:LEU:N	42:BU:54:GLY:HA3	2.21	0.55
44:BW:15:GLU:O	44:BW:18:TYR:N	2.26	0.55
46:BY:96:VAL:HG13	46:BY:128:VAL:HG13	1.88	0.55
46:BY:23:LYS:HA	46:BY:39:VAL:O	2.06	0.55
46:BY:41:LEU:HA	46:BY:44:PHE:HB2	1.87	0.55
46:BY:80:ARG:O	46:BY:81:ARG:HG3	2.07	0.55
47:BZ:72:ARG:HD3	47:BZ:75:LEU:HD22	1.89	0.55
32:BK:93:THR:O	32:BK:96:ASP:HB2	2.06	0.55
3:AD:58:A:O2'	3:AD:61:C:H5	1.89	0.55
26:BC:42:GLU:O	26:BC:215:THR:O	2.24	0.55
24:BA:1580:A:H2'	24:BA:1581:G:C1'	2.36	0.55
24:BA:273(E):U:C6	24:BA:363(B):G:N2	2.75	0.55
1:AA:1094:G:H2'	1:AA:1108:G:H22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1112:C:O2	5:AF:179:ARG:NE	2.40	0.55
1:AA:1127:G:H21	1:AA:1147:C:N4	2.04	0.55
1:AA:23:C:O2'	1:AA:24:U:H5'	2.06	0.55
1:AA:413:G:H2'	1:AA:414:A:OP2	2.06	0.55
1:AA:432:A:H3'	1:AA:432:A:H8	1.71	0.55
1:AA:593:G:C5	1:AA:594:G:C8	2.94	0.55
1:AA:646:U:C2	1:AA:647:C:C5	2.95	0.55
1:AA:675:A:H2'	1:AA:676:A:H8	1.69	0.55
1:AA:939:G:C2	1:AA:940:C:N3	2.75	0.55
1:AA:966:G:C2	3:AC:34:G:H5'	2.40	0.55
1:AA:980:C:C4	1:AA:981:U:N3	2.75	0.55
1:AA:9:G:P	7:AH:122:GLU:OE1	2.65	0.55
4:AE:17:PHE:C	4:AE:42:ILE:HG22	2.27	0.55
4:AE:82:ARG:H	4:AE:94:ASN:ND2	2.04	0.55
5:AF:142:MET:CE	5:AF:143:GLU:HA	2.37	0.55
5:AF:177:THR:O	5:AF:178:LEU:C	2.45	0.55
6:AG:170:VAL:HG11	6:AG:174:LEU:HD12	1.88	0.55
6:AG:39:PRO:O	6:AG:44:GLY:CA	2.55	0.55
7:AH:115:VAL:HG11	7:AH:118:ILE:HD12	1.89	0.55
7:AH:5:ASP:O	7:AH:36:ASP:HA	2.07	0.55
7:AH:76:ILE:HG23	7:AH:77:PRO:HD2	1.89	0.55
8:AI:7:ASN:C	8:AI:8:ILE:CG1	2.74	0.55
9:AJ:17:VAL:CG1	9:AJ:17:VAL:O	2.54	0.55
9:AJ:68:ASN:ND2	9:AJ:127:ALA:O	2.39	0.55
10:AK:123:GLU:OE1	10:AK:124:ALA:N	2.39	0.55
10:AK:138:TRP:OXT	10:AK:138:TRP:CE3	2.60	0.55
10:AK:17:THR:HB	10:AK:18:ARG:NH2	2.21	0.55
1:AA:942:G:N2	11:AL:124:GLN:NE2	2.49	0.55
13:AN:54:ARG:C	13:AN:56:GLY:N	2.60	0.55
15:AP:108:ARG:HD2	15:AP:108:ARG:N	2.22	0.55
12:AM:46:ARG:NH1	16:AQ:59:ALA:HB1	2.22	0.55
17:AR:11:VAL:O	17:AR:12:ILE:C	2.45	0.55
19:AT:31:LEU:C	19:AT:32:TYR:CD2	2.80	0.55
19:AT:92:ARG:O	19:AT:95:TYR:N	2.36	0.55
1:AA:720:C:H1'	20:AU:50:ILE:HD12	1.88	0.55
20:AU:58:LEU:C	20:AU:62:GLU:HB2	2.27	0.55
20:AU:76:LEU:CD2	20:AU:76:LEU:H	2.14	0.55
54:B7:58:ILE:CG2	54:B7:61:LEU:HD12	2.37	0.55
24:BA:1065:U:H1'	24:BA:1074:G:N2	2.22	0.55
24:BA:1206:G:H2'	24:BA:1207:C:C4'	2.32	0.55
24:BA:124:G:H8	24:BA:124:G:O5'	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1273:U:H5''	24:BA:1646:C:H41	1.72	0.55
24:BA:1351:C:O2'	24:BA:1571:A:C8	2.59	0.55
24:BA:1357:U:N3	24:BA:1358:G:N3	2.55	0.55
24:BA:1388:G:C2	24:BA:1400:G:C2	2.95	0.55
24:BA:1428:C:C4	24:BA:1569:A:H5''	2.41	0.55
24:BA:1524:G:C4	24:BA:1525:G:C8	2.95	0.55
24:BA:1530:G:O3'	24:BA:1531:C:O4'	2.25	0.55
24:BA:1782:C:C6	24:BA:1782:C:H3'	2.41	0.55
24:BA:1788:C:O5'	24:BA:1788:C:H6	1.89	0.55
24:BA:179:G:H5'	53:B6:32:LYS:CE	2.36	0.55
24:BA:1964:G:OP1	24:BA:1964:G:C8	2.59	0.55
24:BA:2030:A:O2'	24:BA:2031:A:O5'	2.21	0.55
24:BA:2059:A:C2	24:BA:2503:A:N6	2.65	0.55
24:BA:2313:C:H2'	24:BA:2314:C:C6	2.41	0.55
24:BA:2318:G:C8	24:BA:2318:G:O5'	2.54	0.55
24:BA:2387:U:H1'	47:BZ:41:ARG:CZ	2.33	0.55
24:BA:2391:G:HO2'	24:BA:2392:A:P	2.30	0.55
24:BA:2459:A:C2	24:BA:2492:U:N3	2.74	0.55
24:BA:2576:G:C5'	24:BA:2577:A:OP1	2.54	0.55
24:BA:270(Y):G:H5''	24:BA:270(Z):U:OP1	2.07	0.55
24:BA:267:C:OP2	24:BA:271(A):C:C5	2.60	0.55
24:BA:2754:U:H2'	24:BA:2756:U:OP1	2.06	0.55
24:BA:2543:G:N2	24:BA:2765:A:C2	2.74	0.55
24:BA:2786:U:O4'	28:BE:65:GLY:HA2	2.06	0.55
24:BA:2791:C:C5	24:BA:2893:G:N7	2.71	0.55
24:BA:281:G:N7	24:BA:281:G:OP1	2.40	0.55
24:BA:2842:G:H2'	24:BA:2843:G:O4'	2.07	0.55
24:BA:602:G:H2'	24:BA:655:A:C6	2.42	0.55
24:BA:696:G:N2	24:BA:697:C:C2	2.74	0.55
24:BA:714:U:O4	24:BA:717:G:OP2	2.24	0.55
24:BA:721:C:N3	24:BA:722:A:N7	2.55	0.55
24:BA:768:G:H2'	24:BA:769:G:H8	1.71	0.55
24:BA:775:G:C2'	24:BA:794:G:C8	2.89	0.55
24:BA:792:G:H21	24:BA:2072:G:C2'	2.19	0.55
24:BA:852:G:C5	24:BA:853:G:N7	2.75	0.55
24:BA:902:C:C2	24:BA:903:C:C5	2.95	0.55
24:BA:919:G:C2'	24:BA:920:G:O5'	2.55	0.55
24:BA:954:G:C6	24:BA:964:C:C4	2.95	0.55
25:BB:115:G:H4'	39:BR:50:SER:OG	2.07	0.55
25:BB:58:A:N7	25:BB:59:A:N7	2.55	0.55
25:BB:73:A:C2	25:BB:74:U:C2	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:79:VAL:HG11	27:BD:113:VAL:HA	1.89	0.55
27:BD:157:ARG:O	27:BD:158:ALA:C	2.45	0.55
27:BD:29:PRO:O	27:BD:31:LYS:N	2.39	0.55
28:BE:133:LYS:HB3	28:BE:137:HIS:CD2	2.42	0.55
28:BE:164:ARG:HG2	28:BE:165:VAL:N	2.22	0.55
28:BE:38:THR:CB	28:BE:39:PRO:HD3	2.36	0.55
28:BE:53:PRO:O	28:BE:54:GLN:O	2.25	0.55
29:BF:120:GLU:OE1	29:BF:120:GLU:CA	2.54	0.55
30:BG:35:GLU:HA	30:BG:100:TRP:HH2	1.70	0.55
30:BG:125:PHE:CE2	30:BG:130:ASN:HB2	2.42	0.55
31:BH:149:ARG:CA	31:BH:162:ILE:HD13	2.37	0.55
31:BH:41:MET:SD	31:BH:64:LEU:HD22	2.46	0.55
34:BM:107:LEU:HD13	34:BM:117:PHE:CE1	2.41	0.55
36:BO:70:GLN:HB3	36:BO:110:TYR:OH	2.06	0.55
37:BP:26:TYR:H	37:BP:102:VAL:CB	2.18	0.55
37:BP:37:LEU:C	37:BP:39:PRO:HD3	2.27	0.55
38:BQ:54:LEU:O	38:BQ:80:PHE:CE1	2.60	0.55
39:BR:60:GLY:C	39:BR:62:LYS:N	2.59	0.55
35:BN:106:LEU:CD2	40:BS:38:ASN:HD21	2.19	0.55
40:BS:49:VAL:O	40:BS:50:ILE:HG23	2.07	0.55
24:BA:533:G:H5'	41:BT:24:TYR:HD2	1.72	0.55
41:BT:32:PHE:HD1	41:BT:32:PHE:N	2.02	0.55
42:BU:11:GLN:CD	42:BU:22:VAL:HB	2.27	0.55
45:BX:14:LEU:CB	45:BX:20:TYR:HA	2.20	0.55
46:BY:118:GLN:OE1	46:BY:172:ALA:HB1	2.05	0.55
46:BY:25:PRO:HG2	46:BY:85:HIS:HA	1.88	0.55
32:BK:114:LEU:H	32:BK:131:LYS:NZ	2.05	0.55
32:BK:75:LEU:HD13	32:BK:76:THR:N	2.20	0.55
24:BA:2163:C:H2'	24:BA:2164:C:H5'	1.88	0.55
34:BM:133:GLN:N	34:BM:133:GLN:CD	2.60	0.55
1:AA:983:A:O2'	1:AA:1050:G:OP2	2.22	0.55
1:AA:1054:C:C6	1:AA:1054:C:C3'	2.89	0.55
1:AA:1082:G:H2'	1:AA:1083:U:H5'	1.88	0.55
1:AA:1150:U:H5'	1:AA:1280:A:N1	2.22	0.55
1:AA:1288:A:H8	1:AA:1288:A:O5'	1.89	0.55
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.06	0.55
1:AA:20:U:C2'	1:AA:21:G:O4'	2.55	0.55
1:AA:265:G:C8	1:AA:267:C:C5	2.94	0.55
1:AA:429:U:O2'	1:AA:430:A:H5''	2.07	0.55
1:AA:519:C:H5''	14:AO:51:ALA:HB2	1.87	0.55
1:AA:801:U:C2	1:AA:802:A:C8	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:15:VAL:CG2	4:AE:209:ARG:NE	2.66	0.55
5:AF:192:THR:HG22	5:AF:192:THR:O	2.06	0.55
5:AF:67:THR:CG2	5:AF:104:GLN:CG	2.85	0.55
6:AG:60:GLU:HA	6:AG:63:LYS:CD	2.37	0.55
7:AH:122:GLU:HB3	7:AH:126:ARG:HG3	1.89	0.55
7:AH:109:ILE:CD1	7:AH:135:THR:HB	2.34	0.55
7:AH:140:ARG:HB2	7:AH:140:ARG:CZ	2.37	0.55
8:AI:48:LEU:HB3	20:AU:78:LEU:CD2	2.28	0.55
8:AI:79:LEU:O	8:AI:85:VAL:HG21	2.07	0.55
9:AJ:109:ASN:HA	9:AJ:119:ARG:HD3	1.88	0.55
10:AK:10:LEU:O	10:AK:14:ARG:NH1	2.30	0.55
10:AK:114:THR:O	10:AK:116:LYS:N	2.40	0.55
10:AK:47:GLY:O	10:AK:61:VAL:HA	2.06	0.55
11:AL:11:LYS:O	11:AL:12:GLU:HG2	2.07	0.55
11:AL:27:THR:HG22	11:AL:30:GLY:H	1.71	0.55
1:AA:657:G:C4'	17:AR:28:GLN:HE22	2.20	0.55
19:AT:4:LYS:CD	19:AT:5:VAL:N	2.63	0.55
21:AV:52:TYR:HA	21:AV:56:GLN:O	2.07	0.55
22:AW:78:ALA:O	22:AW:79:ARG:C	2.45	0.55
48:B1:16:LEU:HD22	48:B1:58:VAL:HG22	1.88	0.55
24:BA:72:U:C1'	48:B1:56:LEU:HD23	2.29	0.55
49:B2:29:ARG:O	49:B2:30:ARG:O	2.24	0.55
51:B4:50:GLY:HA3	51:B4:57:VAL:HG23	1.87	0.55
54:B7:36:LYS:HE3	54:B7:40:GLU:OE1	2.07	0.55
24:BA:1058:G:H2'	24:BA:1058:G:N3	2.22	0.55
24:BA:1434:A:C2	24:BA:1435:G:C1'	2.89	0.55
24:BA:1471:A:H2'	24:BA:1472:A:C4'	2.37	0.55
24:BA:154:G:C2	24:BA:155:C:C2	2.95	0.55
24:BA:1784:A:HO2'	24:BA:1785:A:H8	1.55	0.55
24:BA:2094:G:N2	24:BA:2196:C:C2	2.75	0.55
24:BA:214:G:H2'	24:BA:215:G:O4'	2.07	0.55
24:BA:46:C:C6	24:BA:215:G:H8	2.24	0.55
24:BA:2232:U:H2'	24:BA:2233:U:O5'	2.07	0.55
24:BA:2357:U:C6	24:BA:2357:U:OP2	2.60	0.55
24:BA:2417:C:OP1	54:B7:25:MET:HE1	2.07	0.55
24:BA:2436:G:C5	24:BA:2437:U:C5	2.95	0.55
24:BA:2463:C:H2'	24:BA:2464:C:C5'	2.36	0.55
24:BA:2652:C:C2'	24:BA:2653:U:O4'	2.55	0.55
24:BA:2667:C:H2'	24:BA:2668:G:O4'	2.06	0.55
24:BA:270(U):C:H2'	24:BA:270(V):G:O4'	2.06	0.55
24:BA:2764:A:N7	24:BA:2766:G:C5	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2785:C:C4	24:BA:2786:U:O4	2.59	0.55
24:BA:2792:G:N1	24:BA:2793:G:C6	2.74	0.55
24:BA:341:G:H2'	24:BA:342:G:O4'	2.07	0.55
24:BA:344:G:H5''	24:BA:345:A:OP2	2.06	0.55
24:BA:460:A:H2'	24:BA:461:C:O4'	2.06	0.55
24:BA:493:G:H21	24:BA:494:G:H1'	1.71	0.55
24:BA:542:C:H2'	24:BA:543:C:H6	1.72	0.55
24:BA:621:A:C8	24:BA:622:G:H5'	2.42	0.55
24:BA:67:U:O5'	24:BA:67:U:H6	1.89	0.55
24:BA:729:G:H2'	24:BA:730:C:C3'	2.36	0.55
24:BA:738:G:N3	24:BA:739:G:H1'	2.21	0.55
24:BA:807:U:O2	24:BA:807:U:H2'	2.06	0.55
24:BA:842:G:C6	24:BA:843:G:C6	2.94	0.55
24:BA:852:G:C4	24:BA:853:G:C8	2.95	0.55
24:BA:967:C:H2'	24:BA:968:G:H8	1.72	0.55
24:BA:96:G:H4'	48:B1:43:HIS:CD2	2.42	0.55
24:BA:988:A:OP1	49:B2:12:PRO:HD2	2.06	0.55
25:BB:29:A:C4	25:BB:56:G:N2	2.75	0.55
27:BD:135:PHE:HD1	27:BD:135:PHE:N	2.04	0.55
27:BD:7:LYS:CD	27:BD:91:ARG:HE	2.20	0.55
28:BE:149:ARG:NE	28:BE:150:VAL:O	2.40	0.55
28:BE:199:ARG:C	28:BE:200:GLU:CD	2.66	0.55
29:BF:201:VAL:HG12	29:BF:205:ARG:NH2	2.22	0.55
29:BF:74:ARG:CZ	29:BF:75:HIS:N	2.69	0.55
29:BF:75:HIS:NE2	29:BF:80:ALA:CB	2.69	0.55
30:BG:10:LYS:O	30:BG:11:TYR:C	2.45	0.55
30:BG:127:GLY:O	30:BG:128:ARG:CB	2.55	0.55
30:BG:18:GLU:OE1	30:BG:19:LEU:N	2.40	0.55
24:BA:2745:C:H1'	31:BH:143:GLN:CG	2.35	0.55
24:BA:2657:A:O2'	31:BH:160:LYS:NZ	2.40	0.55
34:BM:100:GLU:HB3	34:BM:104:LYS:CE	2.36	0.55
34:BM:127:ASP:O	34:BM:130:HIS:N	2.40	0.55
35:BN:8:LEU:HD21	35:BN:81:ASP:C	2.26	0.55
36:BO:81:GLN:HA	36:BO:86:LYS:HG2	1.89	0.55
36:BO:81:GLN:CA	36:BO:86:LYS:HG3	2.36	0.55
37:BP:130:LYS:NZ	37:BP:132:VAL:CG1	2.70	0.55
37:BP:83:MET:O	37:BP:83:MET:HE2	2.06	0.55
37:BP:85:LYS:HZ2	47:BZ:10:THR:CG2	2.19	0.55
38:BQ:105:ARG:HG3	38:BQ:106:GLY:N	2.20	0.55
38:BQ:73:VAL:O	38:BQ:76:VAL:HB	2.07	0.55
39:BR:12:PHE:C	39:BR:14:VAL:N	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:82:LEU:C	40:BS:84:GLN:H	2.09	0.55
40:BS:28:VAL:HG22	40:BS:92:GLY:O	2.06	0.55
41:BT:83:LEU:HD21	41:BT:95:LEU:HD13	1.88	0.55
24:BA:2010:G:P	43:BV:41:LYS:HZ3	2.29	0.55
43:BV:59:VAL:HG21	43:BV:66:GLU:CG	2.37	0.55
45:BX:97:ARG:O	45:BX:98:VAL:HG22	2.07	0.55
46:BY:100:VAL:HG23	46:BY:102:LEU:CD2	2.36	0.55
46:BY:152:ALA:CA	46:BY:155:LEU:HD22	2.37	0.55
47:BZ:12:ASN:CA	47:BZ:14:ARG:NE	2.69	0.55
3:AD:48:C:C4	3:AD:59:U:O2	2.59	0.55
26:BC:213:TYR:HD1	26:BC:213:TYR:N	2.04	0.55
26:BC:87:GLU:OE2	26:BC:94:VAL:HG11	2.06	0.55
24:BA:1116:C:N4	24:BA:1117:G:O6	2.40	0.55
30:BG:91:ARG:HD3	30:BG:91:ARG:C	2.26	0.55
1:AA:232:G:C4	1:AA:233:C:C5	2.95	0.55
24:BA:41:C:H2'	24:BA:43:G:H8	1.71	0.55
2:A1:17:U:O2'	2:A1:18:U:P	2.65	0.55
1:AA:1160:G:C2'	1:AA:1160:G:N3	2.67	0.55
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.25	0.55
1:AA:1224:G:O6	1:AA:1322:C:H1'	2.06	0.55
1:AA:151:A:H62	1:AA:152:A:H2	1.55	0.55
1:AA:229:U:H2'	1:AA:230:G:H8	1.72	0.55
1:AA:272:C:C2'	1:AA:273:A:H8	2.17	0.55
1:AA:49:U:C5	1:AA:361:G:C2	2.95	0.55
1:AA:505:G:C8	1:AA:535:A:H1'	2.42	0.55
1:AA:686:U:OP1	1:AA:686:U:H4'	2.06	0.55
1:AA:756:C:O2'	1:AA:823:G:H1'	2.07	0.55
1:AA:787:A:C2	1:AA:788:U:O4'	2.60	0.55
1:AA:855:G:O5'	1:AA:871:U:O4	2.25	0.55
3:AC:59:U:N3	3:AC:60:U:C4	2.75	0.55
4:AE:104:ASN:OD1	4:AE:108:ILE:CG1	2.53	0.55
1:AA:619:U:O4	6:AG:134:ASP:OD1	2.24	0.55
6:AG:58:LEU:CD2	6:AG:62:GLN:HG2	2.36	0.55
6:AG:59:ARG:HH11	6:AG:59:ARG:CA	2.13	0.55
7:AH:109:ILE:HG12	7:AH:110:LEU:HD23	1.87	0.55
7:AH:78:HIS:CE1	7:AH:142:LEU:HD22	2.42	0.55
7:AH:81:GLU:H	7:AH:81:GLU:CD	2.09	0.55
9:AJ:102:ARG:O	9:AJ:103:TRP:C	2.45	0.55
10:AK:112:LEU:HA	10:AK:134:ILE:H	1.72	0.55
10:AK:63:LEU:HB2	10:AK:65:TYR:CE1	2.42	0.55
10:AK:95:VAL:CG1	10:AK:133:LEU:HD11	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:8:LEU:HD12	12:AM:16:LEU:HA	1.89	0.55
12:AM:19:SER:N	12:AM:91:PRO:HG3	2.21	0.55
12:AM:44:VAL:HG22	12:AM:66:ARG:CD	2.37	0.55
12:AM:84:GLN:C	12:AM:85:LEU:HD12	2.26	0.55
14:AO:60:LEU:HD21	14:AO:64:TYR:CD2	2.42	0.55
1:AA:1230:C:O2'	15:AP:126:LYS:CE	2.54	0.55
16:AQ:42:ILE:O	16:AQ:44:LEU:N	2.39	0.55
18:AS:27:LYS:C	18:AS:29:ASP:N	2.58	0.55
22:AW:57:ARG:C	22:AW:59:ALA:N	2.56	0.55
49:B2:18:ASP:OD1	49:B2:19:GLN:N	2.39	0.55
24:BA:388:G:OP1	50:B3:29:PRO:HD3	2.07	0.55
50:B3:68:ARG:CZ	50:B3:68:ARG:H	2.20	0.55
24:BA:1095:A:H2'	24:BA:1096:A:O4'	2.07	0.55
24:BA:1175:U:H5'	24:BA:1176:G:P	2.47	0.55
24:BA:1248:G:H4'	24:BA:1249:U:OP1	2.07	0.55
24:BA:1312:U:H2'	24:BA:1313:U:C1'	2.34	0.55
24:BA:1430:C:C2	24:BA:1431:U:C5	2.95	0.55
24:BA:1439:A:C5	24:BA:1440:G:H1'	2.41	0.55
24:BA:1450:C:H2'	24:BA:1451:C:OP2	2.07	0.55
24:BA:1538:G:N2	24:BA:1539:G:N3	2.55	0.55
24:BA:154:G:C2	24:BA:155:C:N3	2.75	0.55
24:BA:175:G:C2	24:BA:176:G:C4	2.95	0.55
24:BA:1827:C:H1'	24:BA:1970:A:C2	2.40	0.55
24:BA:1891:G:N3	24:BA:1891:G:H2'	2.21	0.55
24:BA:1906:G:C4	24:BA:1929:G:C5	2.95	0.55
24:BA:1987:G:N3	24:BA:1988:C:C5	2.75	0.55
24:BA:1992:G:N1	24:BA:1995:U:O4	2.39	0.55
24:BA:204:A:C8	24:BA:204:A:OP1	2.60	0.55
24:BA:2051:A:H5''	24:BA:2578:G:C5'	2.33	0.55
24:BA:2053:G:O2'	24:BA:2054:A:C5'	2.53	0.55
24:BA:2075:U:O2	24:BA:2075:U:H2'	2.05	0.55
24:BA:2206:C:O2'	24:BA:2207:C:H5'	2.06	0.55
24:BA:2285:C:H3'	24:BA:2285:C:C6	2.42	0.55
24:BA:2305:A:H2'	30:BG:154:GLY:CA	2.32	0.55
24:BA:2378:A:C2	24:BA:2379:G:C1'	2.88	0.55
24:BA:1953:A:H62	24:BA:2550:G:H4'	1.71	0.55
24:BA:2639:A:C4	24:BA:2778:A:C2	2.95	0.55
24:BA:2639:A:C4	24:BA:2778:A:N1	2.75	0.55
24:BA:270(Z):U:O2'	24:BA:271(A):C:OP1	2.23	0.55
24:BA:2734:A:H2'	24:BA:2735:G:O4'	2.07	0.55
24:BA:2821:A:O2'	24:BA:2822:G:H5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2850:A:C4	24:BA:2869:G:H4'	2.42	0.55
24:BA:547:A:O2'	24:BA:548:A:H5'	2.06	0.55
24:BA:558:G:O2'	24:BA:559:G:C5'	2.55	0.55
24:BA:588:U:H2'	24:BA:589:C:C6	2.42	0.55
24:BA:678:C:O2'	24:BA:679:C:H5'	2.07	0.55
24:BA:60:G:N3	24:BA:74:A:O4'	2.40	0.55
24:BA:819:A:C2	24:BA:943:U:O2	2.60	0.55
24:BA:847:U:O4	24:BA:933:A:C2	2.59	0.55
24:BA:969:U:H2'	24:BA:970:C:C4'	2.36	0.55
25:BB:112:G:C5'	25:BB:113:C:OP2	2.54	0.55
27:BD:105:ILE:HD11	27:BD:106:ILE:HD13	1.88	0.55
27:BD:199:ALA:O	27:BD:202:LYS:N	2.40	0.55
27:BD:227:ASN:C	27:BD:229:VAL:H	2.10	0.55
28:BE:102:VAL:HG22	28:BE:104:VAL:HG23	1.88	0.55
28:BE:53:PRO:CG	28:BE:75:VAL:CG1	2.84	0.55
28:BE:7:VAL:HG11	28:BE:196:VAL:CG2	2.32	0.55
30:BG:12:TYR:CE1	30:BG:13:GLU:HG3	2.41	0.55
30:BG:142:PRO:C	30:BG:143:GLU:HG2	2.25	0.55
31:BH:148:ILE:HG23	31:BH:149:ARG:N	2.21	0.55
31:BH:89:ILE:HG12	31:BH:94:TYR:CD2	2.41	0.55
35:BN:24:VAL:HG22	35:BN:30:ALA:CB	2.37	0.55
35:BN:42:SER:HA	35:BN:56:ASP:HA	1.89	0.55
35:BN:43:VAL:HG22	35:BN:44:LYS:N	2.22	0.55
35:BN:8:LEU:HD13	35:BN:9:GLU:N	2.22	0.55
36:BO:111:ARG:HH21	36:BO:129:ALA:CB	2.20	0.55
36:BO:130:PHE:HB3	36:BO:134:ALA:CB	2.37	0.55
36:BO:124:LYS:CB	36:BO:143:GLY:HA3	2.37	0.55
37:BP:124:LYS:O	37:BP:125:LEU:C	2.44	0.55
37:BP:68:ILE:HG23	37:BP:69:PHE:N	2.22	0.55
37:BP:77:LYS:HA	37:BP:89:ASN:HB2	1.88	0.55
37:BP:99:PRO:CG	37:BP:101:ARG:NE	2.69	0.55
37:BP:99:PRO:O	37:BP:99:PRO:HG2	2.07	0.55
38:BQ:25:ALA:CB	38:BQ:48:VAL:HG22	2.37	0.55
38:BQ:50:HIS:CE1	38:BQ:54:LEU:HD11	2.42	0.55
24:BA:2845:G:C5'	40:BS:57:PHE:O	2.55	0.55
42:BU:30:GLY:O	42:BU:33:VAL:HG23	2.07	0.55
42:BU:3:ALA:CB	42:BU:44:LYS:NZ	2.70	0.55
43:BV:81:ALA:CB	43:BV:98:LYS:O	2.54	0.55
44:BW:40:LYS:O	44:BW:51:VAL:HG21	2.07	0.55
44:BW:32:PRO:HG3	44:BW:77:LYS:CB	2.37	0.55
44:BW:93:GLU:O	44:BW:94:GLY:C	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:12:THR:CG2	45:BX:70:SER:O	2.54	0.55
45:BX:50:ARG:HB2	45:BX:54:LYS:CD	2.36	0.55
46:BY:177:PRO:CG	46:BY:178:GLU:N	2.69	0.55
47:BZ:50:ASN:HB3	47:BZ:63:VAL:CG2	2.36	0.55
32:BK:115:ALA:CB	32:BK:128:LEU:HD22	2.36	0.55
32:BK:132:PRO:HD2	32:BK:138:ILE:N	2.22	0.55
32:BK:58:LEU:HA	32:BK:61:ARG:HG2	1.87	0.55
3:AD:48:C:O2'	3:AD:49:C:OP2	2.23	0.55
24:BA:2166:G:H2'	24:BA:2167:U:H6	1.72	0.55
26:BC:108:MET:CE	26:BC:136:LEU:HD12	2.36	0.55
26:BC:113:VAL:CG1	26:BC:138:PRO:HG3	2.37	0.55
3:AD:62:C:H5'	26:BC:52:ARG:HH11	1.71	0.55
24:BA:1416:G:OP2	24:BA:1416:G:H4'	2.07	0.55
28:BE:15:PHE:O	28:BE:16:ARG:C	2.44	0.55
1:AA:1123:A:H5''	12:AM:36:GLY:HA3	1.89	0.55
1:AA:1193:G:C8	1:AA:1193:G:H3'	2.42	0.55
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.71	0.55
1:AA:954:G:N2	1:AA:1228:C:C4	2.75	0.55
1:AA:1345:U:C2	1:AA:1377:A:C6	2.95	0.55
1:AA:1514:C:C2	1:AA:1515:C:C5	2.95	0.55
1:AA:103:C:H1'	1:AA:151:A:H2	1.70	0.55
1:AA:20:U:O4'	1:AA:572:A:N1	2.40	0.55
1:AA:294:U:O2	1:AA:295:C:C5	2.61	0.55
1:AA:494:U:O2'	1:AA:495:A:H5'	2.07	0.55
1:AA:528:C:H42	14:AO:49:ASN:ND2	2.01	0.55
1:AA:712:A:O2'	1:AA:713:G:O4'	2.22	0.55
1:AA:833:U:C2	1:AA:834:C:C5	2.95	0.55
1:AA:891:U:C5	1:AA:906:G:C2	2.95	0.55
3:AC:36:A:C6	3:AC:37:A:C5	2.94	0.55
3:AC:5:G:O2'	3:AC:6:G:O5'	2.24	0.55
4:AE:152:PHE:O	4:AE:154:LEU:N	2.38	0.55
5:AF:69:HIS:HA	5:AF:104:GLN:O	2.06	0.55
5:AF:58:GLU:N	5:AF:65:ALA:HB3	2.18	0.55
6:AG:110:PHE:CZ	6:AG:147:ALA:HB1	2.42	0.55
1:AA:8:A:C4'	7:AH:102:ALA:HA	2.36	0.55
7:AH:70:PRO:O	7:AH:76:ILE:HG12	2.06	0.55
9:AJ:106:GLN:CA	9:AJ:106:GLN:NE2	2.69	0.55
9:AJ:149:ARG:O	9:AJ:150:ALA:C	2.45	0.55
10:AK:24:THR:H	10:AK:60:ARG:HD3	1.72	0.55
11:AL:11:LYS:HB2	11:AL:108:VAL:HG12	1.88	0.55
11:AL:11:LYS:H	11:AL:104:ARG:HH21	1.51	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:15:ALA:HB2	11:AL:73:GLN:O	2.07	0.55
11:AL:15:ALA:CB	11:AL:76:ALA:HB3	2.36	0.55
13:AN:59:TYR:O	13:AN:62:GLN:NE2	2.40	0.55
13:AN:91:ARG:HD2	13:AN:95:ILE:HD11	1.90	0.55
14:AO:53:ARG:HB3	14:AO:69:TYR:CE1	2.41	0.55
15:AP:63:THR:O	15:AP:63:THR:HG23	2.06	0.55
16:AQ:23:ARG:NH1	16:AQ:29:ARG:N	2.54	0.55
16:AQ:42:ILE:HG13	16:AQ:43:CYS:H	1.72	0.55
17:AR:31:LEU:HA	17:AR:34:LEU:HD21	1.88	0.55
17:AR:44:LYS:O	17:AR:46:HIS:N	2.40	0.55
20:AU:75:ILE:HG22	20:AU:76:LEU:N	2.21	0.55
1:AA:263:A:C5'	22:AW:75:ASN:HD21	2.19	0.55
1:AA:186:C:O2'	22:AW:85:MET:SD	2.56	0.55
49:B2:38:GLU:HG2	49:B2:40:THR:OG1	2.07	0.55
49:B2:52:HIS:NE2	49:B2:53:LEU:HD21	2.22	0.55
50:B3:59:PHE:CD1	50:B3:59:PHE:N	2.72	0.55
51:B4:55:ARG:C	51:B4:57:VAL:H	2.09	0.55
54:B7:44:LYS:HZ2	54:B7:44:LYS:HA	1.72	0.55
24:BA:1026:U:C2'	24:BA:1026:U:O2	2.40	0.55
24:BA:112:U:OP2	24:BA:112:U:C6	2.60	0.55
24:BA:1164:G:H2'	24:BA:1165:U:O5'	2.07	0.55
24:BA:1201:C:N4	24:BA:1241:A:H61	2.04	0.55
24:BA:1334:G:C4	24:BA:1335:U:C5	2.95	0.55
24:BA:155:C:N3	24:BA:171:G:N1	2.55	0.55
24:BA:1310:G:N2	24:BA:1610:A:C2	2.75	0.55
24:BA:1638:C:H5''	24:BA:2710:C:H1'	1.89	0.55
24:BA:1650:G:C2	24:BA:1651:G:N9	2.75	0.55
24:BA:1683:C:O2	24:BA:1684:C:C5	2.60	0.55
24:BA:172:C:H6	24:BA:172:C:O5'	1.89	0.55
24:BA:1707:G:C2	24:BA:1756:G:N2	2.75	0.55
24:BA:1794:U:O2	24:BA:1795:C:C6	2.60	0.55
24:BA:1956:U:C2'	24:BA:1957:C:C6	2.74	0.55
24:BA:1980:G:O2'	24:BA:1981:A:P	2.65	0.55
24:BA:1679:U:H4'	24:BA:1990:C:O2'	2.06	0.55
24:BA:1655:A:N6	24:BA:2005:A:C1'	2.70	0.55
24:BA:2033:A:N1	24:BA:2036:C:C5	2.75	0.55
24:BA:2091:U:H5''	24:BA:2093:G:OP1	2.07	0.55
24:BA:2215:G:O5'	24:BA:2215:G:C8	2.60	0.55
24:BA:2273:A:H8	24:BA:2274:A:O4'	1.89	0.55
24:BA:2512:C:O5'	24:BA:2512:C:H6	1.89	0.55
24:BA:2514:U:C2	24:BA:2515:C:C5	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:265:A:C2	24:BA:281:G:O5'	2.60	0.55
24:BA:2752:C:H6	24:BA:2752:C:OP1	1.90	0.55
24:BA:339:U:H2'	24:BA:340:A:H8	1.67	0.55
24:BA:612:G:N2	24:BA:617:G:C6	2.68	0.55
24:BA:748:G:H8	24:BA:750:A:OP2	1.89	0.55
24:BA:802:A:H3'	24:BA:803:U:C5	2.42	0.55
24:BA:850:C:H2'	24:BA:851:U:H6	1.72	0.55
24:BA:95:G:O3'	48:B1:40:SER:HA	2.07	0.55
25:BB:29:A:O2'	25:BB:58:A:N1	2.38	0.55
28:BE:103:ASP:CA	28:BE:170:LEU:HD21	2.37	0.55
28:BE:8:LYS:HZ2	40:BS:3:ARG:CG	2.19	0.55
29:BF:46:ARG:HH21	29:BF:46:ARG:HG2	1.71	0.55
29:BF:61:GLY:HA3	29:BF:78:ILE:HG22	1.89	0.55
24:BA:675:A:C4'	29:BF:67:GLN:NE2	2.64	0.55
30:BG:8:LYS:HE2	30:BG:100:TRP:CD1	2.42	0.55
30:BG:165:THR:HG22	30:BG:167:GLU:OE1	2.07	0.55
31:BH:133:VAL:HG22	31:BH:134:SER:H	1.70	0.55
33:BL:10:LEU:HD11	33:BL:57:ILE:HD13	1.88	0.55
33:BL:16:LYS:O	33:BL:17:ALA:HB2	2.06	0.55
33:BL:10:LEU:HD13	33:BL:27:LEU:CG	2.37	0.55
34:BM:107:LEU:HD22	34:BM:117:PHE:CZ	2.41	0.55
34:BM:25:ARG:C	34:BM:28:THR:HG23	2.27	0.55
34:BM:38:HIS:O	41:BT:71:GLN:NE2	2.39	0.55
35:BN:22:ILE:HB	35:BN:23:ARG:HD2	1.88	0.55
35:BN:26:LYS:HG3	35:BN:27:GLY:H	1.70	0.55
35:BN:24:VAL:HG21	35:BN:30:ALA:HA	1.87	0.55
35:BN:62:VAL:HG23	35:BN:83:ALA:CA	2.17	0.55
37:BP:51:ARG:HH21	37:BP:55:VAL:HG21	1.72	0.55
37:BP:77:LYS:HD2	37:BP:77:LYS:N	2.22	0.55
38:BQ:17:ARG:NH1	38:BQ:17:ARG:HB2	2.21	0.55
38:BQ:5:LYS:HZ1	38:BQ:6:SER:N	2.03	0.55
39:BR:101:LEU:HD13	39:BR:101:LEU:O	2.07	0.55
39:BR:51:ALA:CA	39:BR:73:LEU:HG	2.36	0.55
42:BU:20:LEU:HB2	42:BU:95:LEU:CD2	2.31	0.55
42:BU:6:LYS:HD3	42:BU:10:LYS:CB	2.37	0.55
43:BV:36:LEU:CD2	43:BV:47:VAL:HB	2.33	0.55
43:BV:90:ARG:HH21	43:BV:90:ARG:CA	2.20	0.55
44:BW:27:THR:CG2	44:BW:80:ILE:HD12	2.37	0.55
45:BX:74:PRO:HB3	45:BX:101:LYS:O	2.07	0.55
46:BY:51:ALA:HA	46:BY:53:ILE:O	2.06	0.55
47:BZ:45:PHE:HB3	47:BZ:59:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:60:U:C2'	3:AD:61:C:OP1	2.55	0.55
26:BC:177:LYS:HB2	26:BC:180:PHE:CB	2.31	0.55
32:BK:133:HIS:HB3	32:BK:136:VAL:CG2	2.36	0.55
24:BA:487:C:C6	24:BA:487:C:H3'	2.42	0.55
10:AK:54:ASP:C	10:AK:56:LYS:H	2.09	0.55
1:AA:1021:G:H2'	1:AA:1022:G:H1'	1.89	0.55
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.08	0.54
1:AA:1395:C:C2'	1:AA:1396:A:O5'	2.55	0.54
1:AA:1450:U:H1'	1:AA:1454:G:N2	2.22	0.54
1:AA:17:U:H2'	1:AA:18:C:C6	2.37	0.54
1:AA:49:U:N1	1:AA:364:A:N6	2.54	0.54
1:AA:635:G:C6	1:AA:636:U:C4	2.96	0.54
1:AA:761:G:H5'	19:AT:102:GLY:C	2.27	0.54
1:AA:812:C:O2'	1:AA:813:U:P	2.64	0.54
3:AB:62:C:O2'	3:AB:63:G:H5'	2.06	0.54
4:AE:61:LEU:N	4:AE:64:ARG:NH1	2.55	0.54
6:AG:93:PHE:O	6:AG:95:GLY:N	2.40	0.54
6:AG:78:LEU:CD2	6:AG:96:LEU:HD22	2.37	0.54
7:AH:122:GLU:O	7:AH:123:LEU:HD22	2.07	0.54
7:AH:76:ILE:CD1	7:AH:142:LEU:HB2	2.27	0.54
1:AA:1081:G:OP1	7:AH:17:ALA:O	2.25	0.54
9:AJ:123:GLU:OE1	9:AJ:134:ALA:HB2	2.06	0.54
10:AK:32:LYS:HG3	10:AK:59:LEU:HD12	1.89	0.54
10:AK:61:VAL:CG1	10:AK:62:TYR:H	2.19	0.54
10:AK:72:PRO:O	10:AK:73:ASP:HB2	2.06	0.54
11:AL:45:ALA:HB3	11:AL:74:ILE:HG21	1.88	0.54
12:AM:40:LEU:HD12	12:AM:69:ASN:CB	2.37	0.54
13:AN:24:SER:OG	13:AN:25:TYR:N	2.39	0.54
15:AP:37:THR:HG23	15:AP:56:LEU:HD22	1.89	0.54
15:AP:81:LEU:HD22	15:AP:82:MET:H	1.69	0.54
49:B2:44:ARG:O	49:B2:47:VAL:N	2.40	0.54
50:B3:44:THR:CG2	50:B3:45:GLY:H	2.20	0.54
53:B6:30:VAL:HG22	53:B6:33:ARG:NH2	2.22	0.54
54:B7:13:ARG:CD	54:B7:24:ALA:HB1	2.35	0.54
54:B7:16:ILE:CG2	54:B7:57:ARG:NH2	2.70	0.54
54:B7:61:LEU:O	54:B7:62:LEU:CB	2.53	0.54
55:B8:11:CYS:CB	55:B8:32:HIS:CE1	2.86	0.54
24:BA:977:G:HO2'	24:BA:1001:A:H2	1.55	0.54
24:BA:1056:G:O4'	24:BA:1056:G:OP2	2.25	0.54
24:BA:1160:G:N1	24:BA:1161:C:N4	2.55	0.54
24:BA:1309:G:H1	24:BA:1605:C:H42	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1349:A:H5'	24:BA:1350:C:H5''	1.88	0.54
24:BA:143:C:H2'	24:BA:144:C:H6	1.71	0.54
24:BA:1534:G:O5'	24:BA:1534:G:H8	1.90	0.54
24:BA:1558:A:C2	24:BA:1560:G:C1'	2.90	0.54
24:BA:1558:A:H2	24:BA:1560:G:C8	2.24	0.54
24:BA:1613:G:N2	24:BA:1619:G:C5	2.75	0.54
24:BA:1642:G:C2	24:BA:1643:G:C8	2.95	0.54
24:BA:1769:G:H2'	24:BA:1770:G:C8	2.42	0.54
24:BA:1803:A:C3'	27:BD:257:LEU:HD13	2.37	0.54
24:BA:1835:G:N3	24:BA:1931:U:N3	2.54	0.54
24:BA:1901:A:H4'	27:BD:244:ARG:NH1	2.17	0.54
24:BA:2093:G:N3	24:BA:2198:A:N1	2.55	0.54
24:BA:2333:A:N3	24:BA:2333:A:C2'	2.67	0.54
24:BA:1127:A:C6	24:BA:2518:A:C2	2.94	0.54
24:BA:1127:A:C2	24:BA:2518:A:N3	2.76	0.54
24:BA:2612:C:O2'	51:B4:4:HIS:HB3	2.07	0.54
24:BA:2709:G:H2'	24:BA:2710:C:O5'	2.06	0.54
24:BA:2830:G:N1	24:BA:2831:G:C5	2.75	0.54
24:BA:35:G:C6	24:BA:446:G:N2	2.75	0.54
24:BA:510:C:OP1	24:BA:512:G:N2	2.36	0.54
24:BA:529:A:O3'	24:BA:530:G:C8	2.60	0.54
24:BA:543:C:C2	24:BA:544:C:C5	2.95	0.54
24:BA:569:U:OP1	24:BA:945:A:N6	2.40	0.54
24:BA:577:G:C5	24:BA:578:A:N7	2.76	0.54
24:BA:679:C:O2	24:BA:679:C:H2'	2.06	0.54
24:BA:747:U:O2	24:BA:2613:U:O4	2.25	0.54
24:BA:748:G:OP1	43:BV:88:ARG:HD3	2.07	0.54
24:BA:792:G:N2	24:BA:2072:G:C1'	2.66	0.54
24:BA:813:U:H2'	24:BA:814:C:O4'	2.08	0.54
24:BA:900:A:C2'	24:BA:901:A:H5'	2.38	0.54
24:BA:975:G:C6	24:BA:976:C:H5	2.24	0.54
24:BA:977:G:O2'	24:BA:978:G:H5'	2.06	0.54
24:BA:996:A:H5'	41:BT:93:LYS:HD2	1.88	0.54
25:BB:68:C:H2'	25:BB:69:G:C1'	2.36	0.54
27:BD:79:VAL:CG1	27:BD:113:VAL:HA	2.37	0.54
27:BD:126:GLN:O	27:BD:127:VAL:C	2.45	0.54
24:BA:1818:U:C5'	27:BD:158:ALA:HB2	2.29	0.54
27:BD:23:GLU:CD	27:BD:24:ILE:N	2.61	0.54
28:BE:151:TYR:CD2	28:BE:152:LYS:N	2.75	0.54
28:BE:73:GLU:N	28:BE:74:PRO:HD3	2.22	0.54
29:BF:154:VAL:HG21	29:BF:193:VAL:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:36:VAL:CG1	29:BF:183:VAL:HB	2.37	0.54
29:BF:194:MET:HE1	29:BF:200:GLU:HG2	1.88	0.54
29:BF:199:TRP:C	29:BF:203:GLN:OE1	2.46	0.54
29:BF:45:ARG:CG	29:BF:46:ARG:H	2.20	0.54
29:BF:9:ILE:HG21	29:BF:124:LEU:O	2.06	0.54
30:BG:12:TYR:CA	30:BG:15:VAL:HG22	2.33	0.54
24:BA:2314:C:C5'	30:BG:38:VAL:HG21	2.36	0.54
31:BH:118:PRO:HG3	31:BH:144:VAL:CG2	2.33	0.54
31:BH:98:LEU:N	31:BH:125:VAL:HG21	2.22	0.54
33:BL:70:LYS:HB3	33:BL:114:ASP:OD2	2.06	0.54
35:BN:15:GLY:HA3	35:BN:52:VAL:HG21	1.84	0.54
35:BN:12:ASP:O	35:BN:94:ARG:CZ	2.54	0.54
29:BF:31:HIS:CG	36:BO:14:LYS:NZ	2.74	0.54
36:BO:81:GLN:HA	36:BO:86:LYS:CG	2.36	0.54
37:BP:22:LYS:CE	37:BP:23:GLY:H	2.20	0.54
37:BP:63:LYS:HD2	37:BP:64:ILE:O	2.06	0.54
38:BQ:14:SER:HA	38:BQ:17:ARG:NE	2.22	0.54
39:BR:52:SER:CB	39:BR:69:VAL:HG13	2.35	0.54
39:BR:57:LYS:O	39:BR:58:LEU:HB2	2.06	0.54
40:BS:103:ARG:O	40:BS:107:ASP:CG	2.46	0.54
40:BS:107:ASP:N	40:BS:107:ASP:OD1	2.39	0.54
40:BS:52:ILE:CA	40:BS:66:VAL:CG1	2.80	0.54
41:BT:35:ALA:O	41:BT:36:ARG:C	2.44	0.54
42:BU:14:VAL:HG12	42:BU:15:GLU:N	2.09	0.54
42:BU:28:GLU:OE1	42:BU:94:LEU:HG	2.07	0.54
42:BU:56:SER:O	42:BU:57:VAL:CG2	2.55	0.54
45:BX:26:LYS:NZ	45:BX:36:ALA:CB	2.70	0.54
46:BY:168:GLU:OE1	46:BY:169:GLU:CA	2.55	0.54
46:BY:68:PRO:O	46:BY:90:VAL:HG12	2.07	0.54
46:BY:94:GLU:O	46:BY:96:VAL:HG23	2.06	0.54
47:BZ:44:ARG:O	47:BZ:77:ARG:CB	2.53	0.54
3:AD:13:C:OP2	3:AD:13:C:H6	1.89	0.54
24:BA:2127:G:N2	24:BA:2128:C:O2	2.41	0.54
24:BA:2127:G:C6	24:BA:2162:G:C6	2.95	0.54
26:BC:50:ASP:OD1	26:BC:53:ARG:HG3	2.07	0.54
32:BK:19:VAL:CG1	32:BK:20:ASP:N	2.63	0.54
24:BA:274:G:N3	24:BA:274:G:O5'	2.40	0.54
3:AC:44:G:C2	3:AC:45:U:O2	2.60	0.54
1:AA:350:G:N3	1:AA:350:G:H2'	2.22	0.54
2:A1:37:U:C3'	2:A1:38:U:C6	2.91	0.54
1:AA:1064:G:OP1	1:AA:1386:G:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1145:C:O2'	1:AA:1146:A:H8	1.90	0.54
1:AA:1239:A:H1'	1:AA:1241:G:C5	2.42	0.54
1:AA:1277:C:H2'	1:AA:1278:U:O4'	2.06	0.54
1:AA:1371:G:C5	1:AA:1372:U:C5	2.96	0.54
1:AA:1406:U:O2	1:AA:1407:C:C6	2.60	0.54
1:AA:27:G:N1	1:AA:557:G:C4	2.75	0.54
1:AA:313:A:H2'	1:AA:314:C:H6	1.58	0.54
1:AA:557:G:H2'	1:AA:558:G:N9	2.22	0.54
1:AA:580:U:H2'	1:AA:581:G:O4'	2.07	0.54
1:AA:619:U:H3	6:AG:135:LEU:CD2	2.20	0.54
1:AA:664:G:H22	1:AA:741:G:H22	1.54	0.54
1:AA:652:U:O4	1:AA:752:G:H2'	2.07	0.54
1:AA:22:G:C5'	1:AA:885:G:O4'	2.53	0.54
1:AA:968:A:H5''	1:AA:969:A:C5'	2.37	0.54
3:AB:75:C:O3'	24:BA:2573:C:N3	2.40	0.54
3:AC:58:A:H4'	3:AC:59:U:OP1	2.07	0.54
3:AC:9:A:H5''	3:AC:10:G:OP2	2.06	0.54
4:AE:131:PRO:O	4:AE:134:GLU:HB2	2.07	0.54
4:AE:58:ILE:CG2	4:AE:221:LEU:HD12	2.38	0.54
4:AE:82:ARG:HB2	4:AE:94:ASN:HD21	1.73	0.54
5:AF:72:LYS:O	5:AF:76:VAL:HB	2.06	0.54
6:AG:129:ASN:ND2	6:AG:145:GLU:HG2	2.22	0.54
7:AH:109:ILE:HG23	7:AH:110:LEU:H	1.73	0.54
8:AI:14:LEU:CD1	8:AI:15:ASP:O	2.55	0.54
9:AJ:45:ASP:HB2	9:AJ:117:ALA:HB2	1.88	0.54
9:AJ:66:VAL:O	9:AJ:70:LYS:HG3	2.06	0.54
10:AK:33:GLU:CA	10:AK:36:LEU:HD21	2.34	0.54
10:AK:24:THR:O	10:AK:60:ARG:CA	2.54	0.54
1:AA:1179:A:C4'	11:AL:103:THR:OG1	2.49	0.54
11:AL:118:LYS:HB2	11:AL:121:ARG:HB2	1.87	0.54
11:AL:70:LYS:H	11:AL:70:LYS:CD	2.20	0.54
12:AM:59:SER:O	12:AM:60:ARG:O	2.25	0.54
13:AN:58:PRO:HB2	13:AN:93:GLN:CG	2.37	0.54
13:AN:18:ARG:CA	13:AN:80:VAL:HG23	2.34	0.54
13:AN:99:GLN:O	13:AN:105:VAL:HG21	2.07	0.54
14:AO:102:ARG:HD3	14:AO:110:VAL:HG13	1.87	0.54
15:AP:59:TYR:CE2	15:AP:60:VAL:CG2	2.90	0.54
15:AP:36:LYS:HB3	15:AP:59:TYR:CZ	2.42	0.54
16:AQ:23:ARG:HH11	16:AQ:29:ARG:N	2.05	0.54
16:AQ:48:ALA:HA	16:AQ:53:LEU:HD12	1.88	0.54
17:AR:41:GLU:CD	17:AR:41:GLU:C	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:19:ILE:CB	18:AS:37:GLY:O	2.51	0.54
18:AS:59:TRP:HE3	18:AS:59:TRP:HA	1.70	0.54
19:AT:31:LEU:O	19:AT:32:TYR:CD2	2.52	0.54
20:AU:37:VAL:CG1	20:AU:41:LYS:NZ	2.70	0.54
48:B1:39:LEU:O	48:B1:42:ASN:ND2	2.38	0.54
49:B2:9:VAL:CG2	49:B2:10:LYS:N	2.57	0.54
49:B2:50:VAL:O	49:B2:52:HIS:CE1	2.60	0.54
49:B2:5:LYS:CE	49:B2:57:GLU:HB2	2.36	0.54
52:B5:16:CYS:HA	52:B5:49:HIS:O	2.07	0.54
24:BA:2286:A:C2	52:B5:27:LYS:CB	2.73	0.54
52:B5:16:CYS:SG	52:B5:41:PRO:HG3	2.48	0.54
24:BA:1291:C:H2'	24:BA:1292:U:C6	2.42	0.54
24:BA:1342:A:C4	24:BA:1345:C:N4	2.75	0.54
24:BA:1364:G:N1	24:BA:1367:A:OP 2	2.40	0.54
24:BA:1407:C:O2'	24:BA:1408:C:C5'	2.55	0.54
24:BA:1555:G:C4	24:BA:1556:C:C5	2.94	0.54
24:BA:1565:C:C4	24:BA:1567:A:H1'	2.42	0.54
24:BA:1604:C:O2'	24:BA:1605:C:C5'	2.55	0.54
24:BA:1667:G:O5'	35:BN:7:TYR:CE1	2.61	0.54
24:BA:1675:C:N4	28:BE:128:SER:CB	2.69	0.54
24:BA:1688:U:C2'	24:BA:1689:A:OP 2	2.54	0.54
24:BA:1700:A:O2'	24:BA:1701:A:OP 1	2.25	0.54
24:BA:1743:G:OP1	24:BA:1743:G:C4'	2.54	0.54
24:BA:1789:A:C8	24:BA:1790:C:C6	2.96	0.54
24:BA:1936:A:C5	24:BA:1945:G:C6	2.95	0.54
24:BA:1981:A:C5'	24:BA:1982:C:OP 2	2.50	0.54
24:BA:2011:U:C2'	24:BA:2012:G:C8	2.90	0.54
24:BA:2043:C:C6	24:BA:2043:C:OP 1	2.54	0.54
24:BA:2056:G:C4	24:BA:2577:A:N3	2.75	0.54
24:BA:2093:G:H1'	32:BK:29:TYR:CD2	2.43	0.54
24:BA:2283:C:C4	24:BA:2389:G:C2	2.95	0.54
24:BA:2311:A:H5''	24:BA:2312:U:H5	1.71	0.54
24:BA:2331:G:C5	24:BA:2332:U:N3	2.76	0.54
24:BA:2335:A:O2'	24:BA:2336:A:H8	1.89	0.54
24:BA:2437:U:H2'	24:BA:2438:U:H6	1.69	0.54
24:BA:2455:G:C4	24:BA:2456:C:C5	2.95	0.54
24:BA:2588:G:H8	24:BA:2588:G:O5'	1.90	0.54
24:BA:2619:C:O3'	28:BE:152:LYS:O	2.25	0.54
24:BA:2645:G:O2'	24:BA:2733:A:P	2.65	0.54
24:BA:2653:U:C2	24:BA:2654:A:N7	2.76	0.54
24:BA:2674:G:H2'	24:BA:2675:A:C8	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2694:G:C6	24:BA:2695:C:C5	2.95	0.54
24:BA:26:G:N2	24:BA:27:G:H21	2.05	0.54
24:BA:270(W):G:C4	24:BA:270(X):G:C8	2.94	0.54
24:BA:2781:A:H2'	24:BA:2782:G:H4'	1.89	0.54
24:BA:278:A:H2'	24:BA:279:C:N1	2.21	0.54
24:BA:280:C:N3	24:BA:283:A:N7	2.54	0.54
24:BA:285:C:C2	24:BA:286:C:C5	2.95	0.54
24:BA:2877:G:C2	24:BA:2878:U:C2	2.94	0.54
24:BA:2886:G:O2'	51:B4:31:VAL:CB	2.51	0.54
24:BA:394:A:C6	24:BA:395:U:C4	2.95	0.54
24:BA:495:G:O3'	43:BV:4:LYS:HE3	2.06	0.54
24:BA:545:G:H1'	24:BA:549:G:C2	2.41	0.54
24:BA:563:G:O5'	24:BA:564:C:P	2.65	0.54
24:BA:595:C:H2'	24:BA:596:G:C8	2.41	0.54
24:BA:601:C:C1'	29:BF:104:LYS:HZ3	2.21	0.54
24:BA:61:G:O2'	24:BA:62:C:H5'	2.07	0.54
24:BA:71:A:O2'	24:BA:72:U:P	2.65	0.54
24:BA:71:A:N3	24:BA:73:A:N6	2.54	0.54
25:BB:1:U:C4	25:BB:2:C:N4	2.75	0.54
27:BD:5:LYS:HD2	27:BD:113:VAL:CG2	2.36	0.54
27:BD:155:LEU:CD2	27:BD:155:LEU:O	2.55	0.54
28:BE:5:LEU:HD13	28:BE:196:VAL:C	2.27	0.54
29:BF:126:VAL:HG23	29:BF:197:ASP:OD1	2.08	0.54
29:BF:183:VAL:C	29:BF:186:ILE:HB	2.27	0.54
29:BF:184:TYR:O	29:BF:186:ILE:N	2.40	0.54
29:BF:68:LYS:O	29:BF:69:HIS:HB3	2.06	0.54
29:BF:97:TYR:C	29:BF:98:SER:O	2.44	0.54
30:BG:15:VAL:O	30:BG:18:GLU:CB	2.54	0.54
31:BH:33:LEU:CD2	31:BH:35:VAL:HG22	2.36	0.54
31:BH:38:SER:H	31:BH:41:MET:HE3	1.69	0.54
31:BH:85:LYS:CB	31:BH:85:LYS:HZ2	2.20	0.54
35:BN:112:MET:HA	35:BN:115:VAL:HG21	1.87	0.54
35:BN:11:ALA:HB1	35:BN:97:ARG:NH1	2.22	0.54
36:BO:23:PRO:CG	36:BO:29:LYS:H	2.20	0.54
37:BP:110:THR:HG22	37:BP:110:THR:O	2.07	0.54
37:BP:114:ALA:O	37:BP:117:ALA:HB3	2.06	0.54
37:BP:6:ARG:HE	37:BP:8:LYS:HG3	1.71	0.54
37:BP:6:ARG:NE	37:BP:8:LYS:HG3	2.21	0.54
37:BP:98:LYS:HE3	37:BP:98:LYS:N	2.21	0.54
38:BQ:35:THR:HG22	38:BQ:113:LEU:HD23	1.88	0.54
39:BR:7:TYR:O	39:BR:11:LYS:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:93:LYS:HZ3	41:BT:93:LYS:HA	1.71	0.54
41:BT:99:ALA:CA	41:BT:106:PHE:CD1	2.90	0.54
42:BU:27:ALA:O	42:BU:33:VAL:CG2	2.52	0.54
42:BU:3:ALA:O	42:BU:13:ARG:HA	2.07	0.54
43:BV:25:ARG:O	43:BV:26:GLY:C	2.45	0.54
43:BV:82:LEU:H	43:BV:98:LYS:HZ3	1.56	0.54
45:BX:14:LEU:HD13	45:BX:20:TYR:O	2.06	0.54
45:BX:32:PRO:HB2	45:BX:34:LYS:CG	2.35	0.54
45:BX:50:ARG:CA	45:BX:54:LYS:HA	2.31	0.54
46:BY:122:ARG:HB2	46:BY:171:ILE:HD13	1.89	0.54
46:BY:44:PHE:CD2	46:BY:48:PHE:HE1	2.24	0.54
32:BK:102:SER:HA	32:BK:108:THR:HG22	1.89	0.54
32:BK:86:THR:O	32:BK:123:LEU:HB2	2.07	0.54
26:BC:75:LEU:HD13	26:BC:110:PHE:CD2	2.42	0.54
26:BC:163:PHE:CZ	26:BC:195:ALA:HB3	2.42	0.54
1:AA:232:G:C6	1:AA:233:C:N4	2.75	0.54
3:AB:72:C:N4	3:AB:73:A:N6	2.55	0.54
1:AA:1165:C:C5	1:AA:1166:G:C8	2.95	0.54
1:AA:69:G:C2	1:AA:101:A:C2	2.96	0.54
1:AA:1066:C:H5	1:AA:1067:A:H62	1.55	0.54
1:AA:1145:C:O2'	1:AA:1146:A:C8	2.61	0.54
1:AA:1267:C:C2'	1:AA:1267:C:O2	2.55	0.54
1:AA:1342:C:O2'	11:AL:124:GLN:CB	2.52	0.54
1:AA:1415:G:C6	1:AA:1416:G:N7	2.76	0.54
1:AA:1446:A:HO2'	1:AA:1447:G:P	2.29	0.54
1:AA:1524:C:H2'	1:AA:1525:G:O4'	2.06	0.54
1:AA:258:G:H2'	1:AA:259:G:H8	1.71	0.54
1:AA:265:G:C2'	1:AA:267:C:H5	2.10	0.54
1:AA:596:C:O2	1:AA:596:C:H2'	2.07	0.54
1:AA:595:G:N7	1:AA:641:U:C2	2.75	0.54
1:AA:738:C:N4	1:AA:739:C:H41	2.05	0.54
1:AA:741:G:O2'	1:AA:742:G:H5'	2.08	0.54
1:AA:763:G:H2'	1:AA:764:C:O5'	2.07	0.54
1:AA:789:U:C6	1:AA:789:U:C3'	2.90	0.54
1:AA:832:C:C2	1:AA:833:U:C5	2.95	0.54
1:AA:858:G:N2	1:AA:870:U:P	2.80	0.54
1:AA:859:A:C2'	1:AA:860:A:O5'	2.55	0.54
1:AA:913:A:O2'	1:AA:914:A:P	2.66	0.54
1:AA:956:U:O2'	1:AA:957:U:C5'	2.55	0.54
1:AA:959:A:C3'	1:AA:960:U:C5'	2.83	0.54
4:AE:53:ARG:NH1	4:AE:200:ILE:HD12	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:14:GLY:CA	4:AE:209:ARG:HH21	2.13	0.54
4:AE:32:ILE:HD12	4:AE:190:THR:HG22	1.90	0.54
4:AE:69:LEU:HD22	4:AE:92:TYR:N	2.22	0.54
5:AF:150:LYS:NZ	5:AF:152:ILE:CG2	2.69	0.54
5:AF:157:ILE:HG13	5:AF:164:ARG:HB3	1.89	0.54
5:AF:72:LYS:O	5:AF:76:VAL:CG2	2.56	0.54
6:AG:122:ARG:HA	6:AG:134:ASP:O	2.07	0.54
6:AG:200:GLU:O	6:AG:201:GLN:C	2.45	0.54
8:AI:97:PHE:HE2	20:AU:62:GLU:OE2	1.91	0.54
9:AJ:69:VAL:CG1	9:AJ:104:LEU:HD21	2.36	0.54
3:AD:32:U:H1'	9:AJ:86:GLN:OE1	2.06	0.54
10:AK:87:SER:CB	10:AK:93:VAL:N	2.70	0.54
11:AL:37:PHE:HD1	11:AL:43:ALA:HA	1.72	0.54
11:AL:9:ARG:CD	11:AL:14:VAL:HG13	2.38	0.54
12:AM:75:ILE:HG22	12:AM:76:ASN:ND2	2.22	0.54
16:AQ:26:ARG:HE	16:AQ:43:CYS:C	2.11	0.54
17:AR:36:ILE:HD11	17:AR:60:VAL:CB	2.38	0.54
17:AR:36:ILE:CD1	17:AR:60:VAL:HG22	2.36	0.54
19:AT:38:ARG:HG3	19:AT:39:SER:H	1.73	0.54
19:AT:84:LEU:O	19:AT:87:LYS:HB2	2.06	0.54
13:AN:84:VAL:CG2	20:AU:88:LYS:HD3	2.33	0.54
21:AV:45:VAL:CA	21:AV:67:VAL:HG21	2.36	0.54
22:AW:86:ARG:HG2	22:AW:87:LYS:H	1.72	0.54
49:B2:44:ARG:O	49:B2:45:GLY:C	2.45	0.54
49:B2:45:GLY:C	49:B2:48:GLU:HG2	2.26	0.54
51:B4:9:LYS:O	51:B4:10:LYS:CG	2.56	0.54
51:B4:15:ARG:O	51:B4:18:ALA:N	2.40	0.54
54:B7:15:LYS:HA	54:B7:15:LYS:HE2	1.89	0.54
54:B7:53:PRO:HA	54:B7:56:GLU:HG2	1.89	0.54
55:B8:20:HIS:O	55:B8:22:ARG:N	2.40	0.54
24:BA:85:G:C4	24:BA:103:A:H2	2.25	0.54
24:BA:1108:U:C5	24:BA:1109:C:N4	2.75	0.54
24:BA:1047:G:H2'	24:BA:1110:G:C2	2.41	0.54
24:BA:1165:U:C2'	24:BA:1166:C:C6	2.91	0.54
24:BA:1221:C:H2'	24:BA:1222:C:O5'	2.07	0.54
24:BA:1264:G:H3'	24:BA:1264:G:C8	2.42	0.54
24:BA:1342:A:C1'	24:BA:1345:C:N4	2.68	0.54
24:BA:140:A:N3	24:BA:1408:C:H1'	2.22	0.54
24:BA:1655:A:H2'	24:BA:1656:C:H6	1.70	0.54
24:BA:1688:U:O2	24:BA:1698:A:C5	2.60	0.54
24:BA:1815:A:C1'	24:BA:1817:G:C4	2.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1935:G:O2'	24:BA:1936:A:OP2	2.25	0.54
24:BA:1939:U:H2'	24:BA:1940:U:OP1	2.07	0.54
24:BA:1971:A:C2	27:BD:239:ARG:CA	2.90	0.54
24:BA:1980:G:O2'	24:BA:1981:A:OP1	2.21	0.54
24:BA:2007:C:C4	24:BA:2008:C:C5	2.94	0.54
24:BA:2049:G:C2'	24:BA:2050:C:O5'	2.55	0.54
24:BA:2075:U:N3	24:BA:2238:G:N1	2.47	0.54
24:BA:2078:C:O2'	24:BA:2433:A:O2'	2.17	0.54
24:BA:219:G:C2'	24:BA:220:G:H5'	2.38	0.54
24:BA:2335:A:HO2'	24:BA:2336:A:H8	1.54	0.54
24:BA:2357:U:C2'	24:BA:2358:G:O5'	2.55	0.54
24:BA:2385:C:N3	24:BA:2386:C:C6	2.74	0.54
24:BA:2491:U:H2'	24:BA:2492:U:H5''	1.89	0.54
24:BA:2498:C:O2	24:BA:2498:C:C2'	2.56	0.54
24:BA:2586:C:N4	24:BA:2587:A:H62	2.05	0.54
24:BA:2699:C:C2'	24:BA:2700:C:H5'	2.37	0.54
24:BA:2779:U:C3'	24:BA:2779:U:C6	2.90	0.54
24:BA:2816:C:C2	24:BA:2817:G:C8	2.96	0.54
24:BA:2817:G:H2'	24:BA:2818:G:H8	1.72	0.54
24:BA:308:G:N2	24:BA:329:G:C2	2.76	0.54
24:BA:417:C:C4	24:BA:418:G:N7	2.75	0.54
24:BA:516:C:C2	24:BA:517:C:C5	2.95	0.54
24:BA:556:G:C4	24:BA:557:U:C5	2.94	0.54
24:BA:603:A:C6	24:BA:625:G:C5	2.95	0.54
24:BA:627:A:OP1	24:BA:637:A:N6	2.41	0.54
24:BA:819:A:H8	24:BA:819:A:H5'	1.72	0.54
24:BA:882:G:H1'	24:BA:896:A:H61	1.71	0.54
24:BA:960:A:C5'	24:BA:961:C:OP1	2.54	0.54
24:BA:967:C:H2'	24:BA:968:G:C8	2.42	0.54
24:BA:98:G:O2'	24:BA:103:A:H1'	2.07	0.54
25:BB:38:C:O3'	39:BR:93:LYS:NZ	2.39	0.54
27:BD:253:GLN:O	27:BD:254:THR:HG23	2.07	0.54
28:BE:144:ARG:HG2	28:BE:144:ARG:O	2.07	0.54
24:BA:674:G:C5'	29:BF:74:ARG:NH1	2.65	0.54
3:AC:19:G:N2	30:BG:82:LEU:HD13	2.21	0.54
31:BH:126:PRO:HG3	31:BH:132:ARG:NH1	2.22	0.54
31:BH:90:LYS:HE2	31:BH:159:GLU:CD	2.28	0.54
31:BH:33:LEU:HD11	31:BH:74:ASN:HD21	1.73	0.54
33:BL:12:LEU:HD22	33:BL:19:PRO:HG2	1.88	0.54
34:BM:126:PRO:O	34:BM:127:ASP:HB3	2.07	0.54
34:BM:13:TRP:HB2	34:BM:136:GLU:CD	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:28:THR:C	34:BM:31:ALA:HB3	2.26	0.54
34:BM:60:ILE:CG2	34:BM:61:ARG:N	2.70	0.54
34:BM:62:VAL:O	34:BM:64:GLY:N	2.36	0.54
34:BM:87:LEU:HA	34:BM:90:MET:CG	2.37	0.54
36:BO:116:GLY:HA3	36:BO:121:LYS:HB3	1.89	0.54
36:BO:65:ARG:HH11	36:BO:67:MET:H	1.49	0.54
37:BP:16:ARG:HG2	37:BP:73:PRO:CD	2.34	0.54
38:BQ:52:ILE:O	38:BQ:56:LYS:HG3	2.06	0.54
38:BQ:76:VAL:HG12	38:BQ:77:ARG:N	2.22	0.54
39:BR:99:LYS:O	39:BR:103:GLU:OE2	2.26	0.54
25:BB:51:G:OP1	39:BR:60:GLY:O	2.25	0.54
39:BR:76:LYS:CG	39:BR:77:ALA:N	2.68	0.54
40:BS:48:ILE:HG12	40:BS:49:VAL:N	2.22	0.54
35:BN:77:ILE:CG2	40:BS:75:ILE:HD12	2.33	0.54
42:BU:33:VAL:CG1	42:BU:34:GLU:N	2.69	0.54
42:BU:88:ARG:HG2	42:BU:89:GLN:N	2.22	0.54
43:BV:18:ARG:HH21	43:BV:18:ARG:CB	2.20	0.54
45:BX:1:MET:HA	45:BX:33:LYS:CG	2.37	0.54
24:BA:2158:A:O2'	24:BA:2159:G:OP2	2.21	0.54
26:BC:192:PHE:O	26:BC:196:LEU:HB2	2.08	0.54
26:BC:225:ASN:OD1	26:BC:227:HIS:HB2	2.08	0.54
26:BC:225:ASN:C	26:BC:227:HIS:H	2.11	0.54
24:BA:1487:G:H2'	24:BA:1488:G:H8	1.72	0.54
18:AS:67:THR:HB	18:AS:70:ALA:CB	2.36	0.54
1:AA:1037:C:C4	1:AA:1038:C:N4	2.76	0.54
1:AA:1057:G:C4'	5:AF:197:GLY:H	2.16	0.54
1:AA:1104:G:C4	1:AA:1105:A:C8	2.96	0.54
1:AA:1134:G:C6	1:AA:1135:U:C1'	2.90	0.54
1:AA:1438:G:C5	1:AA:1439:C:C5	2.95	0.54
1:AA:152:A:H8	1:AA:152:A:H3'	1.72	0.54
1:AA:192:U:H4'	22:AW:103:GLY:N	2.23	0.54
1:AA:498:A:O2'	1:AA:500:G:C8	2.60	0.54
1:AA:622:A:H2'	1:AA:623:C:C5'	2.37	0.54
1:AA:647:C:O2'	1:AA:648:A:H5'	2.08	0.54
1:AA:778:G:C2'	1:AA:779:C:H5'	2.37	0.54
1:AA:791:G:H2'	1:AA:792:A:O4'	2.06	0.54
1:AA:833:U:HO2'	1:AA:834:C:H6	1.55	0.54
1:AA:848:C:C4	1:AA:849:C:C5	2.95	0.54
3:AC:47:U:H3'	3:AC:47:U:H6	1.71	0.54
1:AA:1104:G:O2'	4:AE:111:ARG:NH2	2.38	0.54
4:AE:152:PHE:CD1	4:AE:152:PHE:C	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:8:LYS:O	4:AE:9:GLU:HB2	2.06	0.54
5:AF:110:ASN:ND2	5:AF:140:ARG:O	2.40	0.54
5:AF:35:GLU:O	5:AF:39:ILE:HG13	2.07	0.54
6:AG:152:SER:HA	6:AG:155:LEU:HD21	1.88	0.54
6:AG:152:SER:HA	6:AG:155:LEU:CD2	2.37	0.54
6:AG:24:GLU:C	6:AG:24:GLU:CD	2.66	0.54
6:AG:52:SER:O	6:AG:53:ASP:C	2.45	0.54
7:AH:100:VAL:C	7:AH:101:ILE:HD13	2.27	0.54
7:AH:79:GLU:O	7:AH:80:ILE:HG23	2.07	0.54
8:AI:80:ARG:O	8:AI:81:ILE:C	2.45	0.54
10:AK:112:LEU:HD11	10:AK:114:THR:HG22	1.89	0.54
10:AK:10:LEU:CA	10:AK:13:ILE:HD12	2.37	0.54
7:AH:152:ARG:HH21	10:AK:44:PHE:N	2.06	0.54
10:AK:88:LYS:HZ3	10:AK:88:LYS:CB	2.20	0.54
1:AA:598:U:C4'	10:AK:94:TYR:CD2	2.86	0.54
11:AL:28:VAL:O	11:AL:29:ASN:C	2.44	0.54
1:AA:691:G:N2	13:AN:51:LYS:NZ	2.55	0.54
13:AN:66:LEU:O	13:AN:70:LYS:HD2	2.08	0.54
14:AO:53:ARG:NH2	14:AO:92:ASP:OD2	2.41	0.54
15:AP:34:LEU:HD23	15:AP:39:ILE:CD1	2.37	0.54
16:AQ:27:CYS:N	16:AQ:43:CYS:HB3	2.23	0.54
16:AQ:41:ARG:HA	16:AQ:44:LEU:HD23	1.90	0.54
17:AR:69:TYR:OH	17:AR:73:GLU:HG3	2.08	0.54
18:AS:4:ILE:HG12	18:AS:66:PRO:HA	1.88	0.54
19:AT:29:HIS:HE1	19:AT:31:LEU:HB3	1.72	0.54
22:AW:43:LEU:CD1	22:AW:51:GLU:HB2	2.37	0.54
22:AW:83:ARG:HA	22:AW:86:ARG:CD	2.38	0.54
24:BA:74:A:N1	48:B1:46:ARG:CD	2.70	0.54
50:B3:22:ILE:N	50:B3:22:ILE:HD12	2.23	0.54
50:B3:59:PHE:CD1	50:B3:60:GLN:HG2	2.41	0.54
50:B3:57:GLU:CA	50:B3:61:ARG:CZ	2.85	0.54
55:B8:17:ILE:HB	55:B8:24:TYR:O	2.06	0.54
24:BA:1027:A:H2'	24:BA:1028:A:C8	2.41	0.54
24:BA:1128:A:O2'	24:BA:1129:A:H5'	2.07	0.54
24:BA:1201:C:H42	24:BA:1241:A:N6	2.03	0.54
24:BA:1287:A:H5'	38:BQ:104:ARG:CG	2.38	0.54
24:BA:12:U:O2	24:BA:2627:G:OP1	2.25	0.54
24:BA:1353:A:H2'	24:BA:1354:A:O4'	2.07	0.54
24:BA:1374:G:C5	24:BA:1375:C:C5	2.96	0.54
24:BA:1469:A:H2'	24:BA:1470:G:H5'	1.88	0.54
24:BA:1477:A:H4'	24:BA:1478:G:OP2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1526:G:N2	24:BA:1546:C:N3	2.54	0.54
24:BA:1605:C:H3'	24:BA:1606:G:H8	1.72	0.54
24:BA:1618:A:O2'	24:BA:1619:G:OP1	2.18	0.54
24:BA:1672:C:O2	24:BA:2582:G:C1'	2.55	0.54
24:BA:1681:G:C6	24:BA:1762:A:N7	2.76	0.54
24:BA:1785:A:O5'	24:BA:1982:C:C4'	2.52	0.54
24:BA:188:G:OP2	50:B3:13:ARG:NH2	2.40	0.54
24:BA:1914:C:N3	24:BA:1915:U:H5	2.06	0.54
24:BA:204:A:H5'	24:BA:206:U:O4'	2.06	0.54
24:BA:2208:U:H1'	24:BA:2217:G:H1	1.70	0.54
24:BA:2209:C:H3'	24:BA:2209:C:C6	2.42	0.54
24:BA:2227:A:H4'	27:BD:262:ARG:CG	2.34	0.54
24:BA:2447:G:C4	24:BA:2500:U:C4	2.94	0.54
24:BA:2519:U:H2'	24:BA:2519:U:O2	2.08	0.54
24:BA:2527:C:O2'	24:BA:2528:U:H5'	2.08	0.54
24:BA:2554:U:H5	24:BA:2556:C:N3	2.06	0.54
24:BA:2703:C:C2'	24:BA:2704:C:O5'	2.56	0.54
24:BA:271(B):G:C5'	24:BA:271(C):U:O4'	2.53	0.54
24:BA:2747:G:N2	24:BA:2754:U:H3	2.04	0.54
24:BA:2848:G:H21	24:BA:2849:U:H3	1.51	0.54
24:BA:584:C:H2'	24:BA:585:G:C5'	2.36	0.54
24:BA:64:A:H5''	44:BW:73:ARG:HA	1.86	0.54
24:BA:655:A:H5'	24:BA:656:G:OP1	2.07	0.54
25:BB:45:A:C5	25:BB:46:A:C5	2.95	0.54
25:BB:5:C:H2'	25:BB:6:C:C6	2.43	0.54
24:BA:1566:A:C5	27:BD:215:LEU:HD22	2.42	0.54
27:BD:239:ARG:N	27:BD:239:ARG:CD	2.70	0.54
27:BD:50:THR:C	27:BD:51:VAL:CG2	2.76	0.54
27:BD:58:HIS:CD2	27:BD:215:LEU:HA	2.42	0.54
27:BD:63:ARG:HG2	27:BD:65:ILE:HG12	1.88	0.54
28:BE:115:GLY:O	28:BE:117:MET:N	2.41	0.54
28:BE:104:VAL:HG11	28:BE:198:VAL:HG22	1.88	0.54
29:BF:106:ARG:CG	29:BF:107:LYS:N	2.65	0.54
32:BK:25:TYR:C	32:BK:30:LEU:HD23	2.28	0.54
33:BL:24:GLY:HA2	33:BL:34:ILE:CG2	2.37	0.54
34:BM:99:LEU:HD12	34:BM:103:VAL:CG1	2.37	0.54
34:BM:69:GLN:OE1	34:BM:87:LEU:HD13	2.08	0.54
35:BN:106:LEU:HA	35:BN:111:PHE:CE1	2.42	0.54
35:BN:21:CYS:SG	35:BN:22:ILE:N	2.80	0.54
35:BN:47:ILE:O	35:BN:48:PRO:C	2.45	0.54
36:BO:138:LEU:HD13	36:BO:139:LYS:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:27:VAL:CG1	37:BP:104:PHE:CE2	2.91	0.54
37:BP:85:LYS:CE	37:BP:88:GLY:HA3	2.36	0.54
38:BQ:53:HIS:C	38:BQ:56:LYS:HG3	2.27	0.54
41:BT:113:ALA:HA	41:BT:116:ALA:HB2	1.90	0.54
41:BT:32:PHE:HB3	41:BT:36:ARG:HH21	1.72	0.54
42:BU:75:PHE:N	42:BU:75:PHE:CD1	2.76	0.54
43:BV:21:VAL:HG13	43:BV:75:TYR:CD2	2.42	0.54
44:BW:30:VAL:HG23	44:BW:77:LYS:HD3	1.89	0.54
44:BW:50:LYS:HG3	44:BW:84:ALA:H	1.71	0.54
47:BZ:27:GLU:OE1	47:BZ:27:GLU:HA	2.06	0.54
32:BK:93:THR:HG22	32:BK:96:ASP:H	1.71	0.54
24:BA:2135:A:OP2	24:BA:2160:G:H5'	2.07	0.54
24:BA:2114:A:N6	24:BA:2170:A:H61	2.06	0.54
3:AD:39:U:H2'	3:AD:40:C:O4'	2.06	0.54
24:BA:2190:G:C2	24:BA:2191:G:C8	2.96	0.54
34:BM:139:GLU:C	34:BM:139:GLU:OE2	2.45	0.54
24:BA:1563:G:O2'	24:BA:1564:C:H5'	2.07	0.54
27:BD:273:ARG:CZ	27:BD:273:ARG:O	2.55	0.54
1:AA:1058:G:O5'	1:AA:1058:G:H8	1.91	0.54
1:AA:153:C:C2	1:AA:154:C:C5	2.96	0.54
1:AA:265:G:C4	1:AA:267:C:C6	2.96	0.54
1:AA:307:C:H2'	1:AA:307:C:O2	2.06	0.54
1:AA:362:G:H2'	1:AA:364:A:OP2	2.07	0.54
1:AA:397:A:C2	1:AA:548:G:C6	2.96	0.54
1:AA:446:G:H2'	1:AA:447:G:C8	2.42	0.54
1:AA:519:C:C4	1:AA:520:A:N3	2.76	0.54
1:AA:553:A:C2	1:AA:554:C:C2	2.96	0.54
1:AA:563:A:C5	1:AA:567:G:H1'	2.42	0.54
1:AA:628:G:H2'	1:AA:629:G:O4'	2.08	0.54
1:AA:714:G:HO2'	1:AA:777:A:N6	2.06	0.54
1:AA:861:G:H2'	1:AA:862:C:C6	2.43	0.54
1:AA:9:G:C2	1:AA:26:A:C2	2.96	0.54
3:AC:46:G:OP2	3:AC:46:G:C8	2.61	0.54
5:AF:18:TRP:CZ2	16:AQ:57:ARG:HB2	2.43	0.54
5:AF:193:TYR:HD2	5:AF:193:TYR:N	2.05	0.54
1:AA:407:G:H5''	6:AG:115:ARG:HD2	1.90	0.54
6:AG:105:VAL:CG2	6:AG:121:VAL:HG22	2.29	0.54
6:AG:172:PRO:CG	6:AG:193:ASP:HB3	2.37	0.54
6:AG:200:GLU:CG	6:AG:201:GLN:N	2.68	0.54
1:AA:427:U:OP1	6:AG:41:GLY:N	2.36	0.54
6:AG:6:GLY:O	6:AG:8:VAL:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:106:PRO:CG	7:AH:122:GLU:OE2	2.56	0.54
7:AH:45:PHE:CD1	7:AH:45:PHE:O	2.61	0.54
8:AI:77:ARG:HA	8:AI:80:ARG:HE	1.71	0.54
10:AK:41:ARG:CZ	10:AK:41:ARG:HB3	2.38	0.54
10:AK:4:ASP:O	10:AK:5:PRO:C	2.45	0.54
10:AK:69:ARG:HH11	10:AK:69:ARG:HG3	1.72	0.54
14:AO:100:ILE:HD13	14:AO:100:ILE:H	1.71	0.54
14:AO:48:PRO:CG	14:AO:49:ASN:N	2.70	0.54
14:AO:50:SER:O	14:AO:51:ALA:CB	2.55	0.54
14:AO:60:LEU:HD13	14:AO:64:TYR:O	2.06	0.54
15:AP:60:VAL:HG22	15:AP:64:TRP:HE3	1.72	0.54
15:AP:69:GLU:O	15:AP:71:ARG:N	2.41	0.54
16:AQ:23:ARG:C	16:AQ:33:VAL:HG11	2.28	0.54
20:AU:45:SER:HB3	20:AU:51:LEU:CD1	2.31	0.54
20:AU:62:GLU:O	20:AU:63:GLN:C	2.45	0.54
21:AV:19:VAL:HG22	21:AV:43:GLU:CD	2.27	0.54
22:AW:22:ARG:O	22:AW:26:ASN:OD1	2.26	0.54
22:AW:83:ARG:HA	22:AW:86:ARG:HD3	1.90	0.54
22:AW:87:LYS:O	22:AW:91:LEU:HG	2.08	0.54
24:BA:2623:G:H21	51:B4:22:HIS:CE1	2.23	0.54
52:B5:12:GLU:HG3	52:B5:53:LYS:O	2.07	0.54
52:B5:7:ILE:HG22	52:B5:8:LYS:N	2.22	0.54
24:BA:1178:C:O2'	24:BA:1179:C:O5'	2.24	0.54
24:BA:1246:A:OP2	36:BO:15:ARG:CZ	2.55	0.54
24:BA:1497:U:O4	24:BA:1577:C:H4'	2.08	0.54
24:BA:1556:C:C2	24:BA:1557:C:C5	2.96	0.54
24:BA:1670:C:H3'	24:BA:1671:U:C5	2.43	0.54
24:BA:1684:C:C4	24:BA:1705:G:C2	2.96	0.54
24:BA:1718:G:N2	24:BA:1742:C:C4	2.75	0.54
24:BA:1725:G:N2	24:BA:1726:G:O4'	2.40	0.54
24:BA:1728:G:H1	24:BA:1733:G:H22	1.56	0.54
24:BA:1882:C:H2'	24:BA:1883:G:C5'	2.37	0.54
24:BA:2058:A:N1	24:BA:2059:A:N6	2.52	0.54
24:BA:2210:G:O6	27:BD:150:LYS:CA	2.55	0.54
24:BA:2215:G:O5'	24:BA:2215:G:H8	1.91	0.54
24:BA:2271:G:H5'	47:BZ:20:ARG:HH12	1.71	0.54
24:BA:2273:A:N7	24:BA:2274:A:C8	2.75	0.54
24:BA:2277:G:H5''	47:BZ:12:ASN:HD21	1.70	0.54
24:BA:2392:A:C2	24:BA:2429:G:N3	2.75	0.54
24:BA:2552:U:C2	24:BA:2554:U:H5''	2.42	0.54
24:BA:2653:U:P	24:BA:2654:A:H3'	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(X):G:O3'	24:BA:272:G:H4'	2.08	0.54
24:BA:2730:C:H4'	28:BE:169:ASN:O	2.06	0.54
24:BA:2737:G:N1	24:BA:2768:C:N4	2.56	0.54
24:BA:448:U:O2'	24:BA:449:A:OP1	2.23	0.54
24:BA:460:A:C8	24:BA:461:C:C5	2.96	0.54
24:BA:463:G:N2	24:BA:467:G:C5	2.76	0.54
24:BA:497:A:H2'	24:BA:498:G:C8	2.43	0.54
24:BA:578:A:H2	41:BT:34:LYS:NZ	2.03	0.54
24:BA:627:A:N6	24:BA:636:G:O2'	2.39	0.54
24:BA:630:G:H5''	54:B7:46:ARG:CZ	2.36	0.54
24:BA:675:A:H2'	24:BA:676:A:C2	2.43	0.54
24:BA:728:G:C6	24:BA:762:U:C3'	2.90	0.54
24:BA:75:G:O2'	48:B1:50:ARG:NH1	2.40	0.54
24:BA:826:U:C2	24:BA:828:U:C6	2.95	0.54
24:BA:861:A:C6	24:BA:917:A:C2	2.95	0.54
24:BA:942:G:H3'	36:BO:32:THR:HG22	1.86	0.54
24:BA:996:A:C2	24:BA:997:G:N7	2.76	0.54
25:BB:30:C:C1'	25:BB:58:A:H2	2.21	0.54
25:BB:51:G:N7	39:BR:32:LEU:HD21	2.21	0.54
24:BA:1491:G:H4'	27:BD:72:LYS:NZ	2.22	0.54
28:BE:149:ARG:HH11	28:BE:151:TYR:HA	1.71	0.54
28:BE:154:LYS:NZ	28:BE:156:MET:HE2	2.19	0.54
29:BF:189:THR:O	29:BF:190:GLU:C	2.46	0.54
30:BG:174:GLU:HG2	30:BG:175:LEU:N	2.21	0.54
30:BG:29:TRP:C	30:BG:31:VAL:HG23	2.27	0.54
31:BH:161:GLY:C	31:BH:163:TYR:CE1	2.81	0.54
31:BH:7:LEU:HD13	31:BH:65:HIS:CE1	2.42	0.54
31:BH:74:ASN:ND2	31:BH:75:ALA:H	2.05	0.54
31:BH:8:PRO:HA	31:BH:51:ARG:CZ	2.37	0.54
35:BN:35:VAL:HA	35:BN:61:VAL:HG12	1.89	0.54
36:BO:74:GLU:CB	36:BO:107:LYS:NZ	2.70	0.54
36:BO:79:ARG:O	36:BO:83:VAL:HG22	2.07	0.54
37:BP:118:LEU:CB	37:BP:131:ILE:HD13	2.37	0.54
38:BQ:22:ARG:HA	38:BQ:47:PHE:HE2	1.72	0.54
38:BQ:61:HIS:C	38:BQ:64:ARG:HH11	2.10	0.54
40:BS:110:ILE:HD12	40:BS:113:LYS:CE	2.37	0.54
40:BS:26:ASP:HA	40:BS:100:TYR:HH	1.73	0.54
40:BS:44:ASP:C	40:BS:46:GLU:N	2.59	0.54
40:BS:30:VAL:HB	40:BS:91:ARG:H	1.73	0.54
24:BA:1161:C:C1'	42:BU:22:VAL:HG11	2.34	0.54
42:BU:33:VAL:O	42:BU:63:GLY:HA2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:82:GLN:HG2	44:BW:83:VAL:N	2.23	0.54
44:BW:49:VAL:HG12	44:BW:88:LYS:HB2	1.90	0.54
45:BX:14:LEU:HB2	45:BX:20:TYR:H	1.72	0.54
45:BX:45:VAL:C	45:BX:57:GLN:HG2	2.28	0.54
46:BY:110:GLY:HA3	46:BY:144:LEU:HD12	1.89	0.54
46:BY:129:SER:CB	46:BY:133:ILE:HG22	2.36	0.54
46:BY:159:PRO:O	46:BY:161:VAL:N	2.34	0.54
47:BZ:27:GLU:OE1	47:BZ:28:GLY:N	2.39	0.54
47:BZ:40:GLN:HE22	47:BZ:43:THR:HA	1.72	0.54
26:BC:89:ALA:C	26:BC:154:ARG:HA	2.28	0.54
26:BC:10:LEU:CD1	26:BC:32:LEU:CD2	2.85	0.54
26:BC:39:GLU:HB3	26:BC:178:ALA:CB	2.37	0.54
1:AA:1009:G:H2'	1:AA:1010:G:H8	1.73	0.54
24:BA:1582:C:C3'	24:BA:1583:A:O4'	2.56	0.54
1:AA:806:C:O2'	1:AA:807:A:H5'	2.07	0.54
2:A1:36:U:O2	9:AJ:82:GLY:HA2	2.08	0.54
1:AA:1057:G:OP1	5:AF:155:GLY:CA	2.56	0.54
1:AA:1099:G:C5	1:AA:1100:C:C5	2.95	0.54
1:AA:1201:A:C2'	1:AA:1202:G:OP2	2.55	0.54
1:AA:1057:G:C5	1:AA:1204:A:C2	2.96	0.54
1:AA:129(A):G:C8	1:AA:129(A):G:C3'	2.89	0.54
1:AA:1350:A:P	11:AL:118:LYS:HG3	2.48	0.54
1:AA:1363:A:H5''	1:AA:1364:U:C5	2.43	0.54
1:AA:1512:U:C2	1:AA:1513:A:N7	2.76	0.54
1:AA:1513:A:N1	1:AA:1523:G:C6	2.76	0.54
1:AA:46:G:N2	1:AA:366:C:H1'	2.22	0.54
1:AA:859:A:N7	1:AA:860:A:C4	2.76	0.54
1:AA:862:C:C2	1:AA:863:U:H5	2.24	0.54
1:AA:965:A:O2'	1:AA:966:G:O5'	2.24	0.54
1:AA:970:C:O2	15:AP:126:LYS:HD2	2.07	0.54
3:AC:10:G:C6	3:AC:11:C:C4	2.95	0.54
4:AE:100:GLY:O	4:AE:104:ASN:ND2	2.41	0.54
4:AE:46:LYS:HA	4:AE:46:LYS:CE	2.34	0.54
4:AE:64:ARG:H	4:AE:64:ARG:CD	2.20	0.54
5:AF:123:GLN:HB3	5:AF:128:PHE:CE2	2.41	0.54
5:AF:135:LYS:NZ	7:AH:52:PRO:HG2	2.23	0.54
5:AF:30:ARG:HD3	5:AF:30:ARG:H	1.71	0.54
6:AG:101:LEU:O	6:AG:104:VAL:CG2	2.40	0.54
6:AG:30:LYS:HG2	6:AG:35:ARG:CG	2.38	0.54
6:AG:13:ARG:NH1	6:AG:38:TYR:CE1	2.75	0.54
7:AH:136:MET:CA	7:AH:139:LEU:HD12	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:36:ARG:CB	8:AI:36:ARG:CZ	2.85	0.54
9:AJ:87:VAL:HB	9:AJ:156:TRP:CH2	2.42	0.54
10:AK:110:ALA:O	10:AK:120:THR:HA	2.08	0.54
10:AK:112:LEU:CB	10:AK:133:LEU:HA	2.37	0.54
1:AA:1151:A:H1'	12:AM:39:PRO:HB2	1.90	0.54
13:AN:115:PRO:O	13:AN:116:HIS:ND1	2.40	0.54
15:AP:91:ARG:HH12	15:AP:103:THR:CG2	2.19	0.54
17:AR:27:VAL:O	17:AR:28:GLN:C	2.45	0.54
18:AS:6:LEU:CD2	18:AS:17:TYR:CD2	2.85	0.54
21:AV:36:ARG:NH2	21:AV:51:VAL:HG12	2.23	0.54
21:AV:58:VAL:HG21	21:AV:75:ALA:HB1	1.89	0.54
49:B2:50:VAL:HG12	49:B2:51:ALA:O	2.08	0.54
49:B2:52:HIS:C	49:B2:54:VAL:N	2.58	0.54
52:B5:9:LEU:O	52:B5:10:LEU:HD23	2.08	0.54
53:B6:8:ASN:ND2	53:B6:8:ASN:C	2.60	0.54
54:B7:36:LYS:O	54:B7:37:SER:HB3	2.08	0.54
54:B7:58:ILE:HA	54:B7:61:LEU:HD12	1.90	0.54
54:B7:5:LYS:HA	54:B7:59:LYS:O	2.08	0.54
24:BA:1031:G:C5	24:BA:1032:A:N7	2.75	0.54
24:BA:1050:A:H2'	24:BA:1051:G:C5'	2.38	0.54
24:BA:1068:G:H1'	24:BA:1069:A:C5	2.42	0.54
24:BA:1047:G:N2	24:BA:1110:G:H2'	2.23	0.54
24:BA:1269:A:O5'	24:BA:1269:A:C8	2.59	0.54
24:BA:1348:G:N1	24:BA:1599:C:C2	2.76	0.54
24:BA:1343:G:O6	24:BA:1404:C:N3	2.40	0.54
24:BA:1406:U:C2'	24:BA:1407:C:O5'	2.56	0.54
24:BA:1470:G:H2'	24:BA:1519:G:O6	2.07	0.54
24:BA:1566:A:C2'	24:BA:1567:A:H5'	2.35	0.54
24:BA:1571:A:C8	24:BA:1571:A:OP2	2.60	0.54
24:BA:1683:C:H2'	24:BA:1684:C:C6	2.42	0.54
24:BA:1696:G:H2'	24:BA:1697:G:O4'	2.08	0.54
24:BA:1689:A:C5	24:BA:1700:A:C5	2.96	0.54
24:BA:1787:A:H8	24:BA:1787:A:O5'	1.91	0.54
24:BA:1799:G:H5''	27:BD:264:LYS:HZ3	1.73	0.54
24:BA:1930:G:H2'	24:BA:1968:G:O6	2.06	0.54
24:BA:1950:G:N7	24:BA:1951:U:H5	2.01	0.54
24:BA:1988:C:C2'	24:BA:1989:G:O5'	2.56	0.54
24:BA:1997:G:C2	24:BA:1998:G:C4	2.96	0.54
24:BA:2472:G:H2'	24:BA:2475:C:H42	1.73	0.54
24:BA:570:G:H1	24:BA:2498:C:C3'	2.19	0.54
24:BA:1127:A:N1	24:BA:2518:A:N3	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2558:C:H2'	24:BA:2558:C:O2	2.06	0.54
24:BA:2056:G:C4	24:BA:2577:A:C2	2.95	0.54
24:BA:2075:U:C1'	24:BA:2597:G:N2	2.71	0.54
24:BA:269:U:H2'	24:BA:269:U:O2	2.07	0.54
24:BA:271:G:N3	24:BA:272:G:C8	2.75	0.54
24:BA:2720:U:C4	24:BA:2873:A:N6	2.73	0.54
24:BA:527:C:C5	24:BA:2780:G:OP1	2.60	0.54
24:BA:2786:U:H2'	24:BA:2787:C:H6	1.72	0.54
24:BA:2857:G:H3'	24:BA:2857:G:C8	2.43	0.54
24:BA:2882:A:C2	24:BA:2883:A:C8	2.95	0.54
24:BA:350:U:C2'	24:BA:350:U:O2	2.44	0.54
24:BA:507:A:H5'	24:BA:509:C:C1'	2.37	0.54
24:BA:509:C:H2'	24:BA:510:C:OP2	2.08	0.54
24:BA:27:G:C2	24:BA:512:G:H2'	2.41	0.54
24:BA:819:A:N6	24:BA:1188:U:H3	2.04	0.54
24:BA:951:C:C2'	24:BA:952:G:H5'	2.37	0.54
24:BA:1820:U:H2'	27:BD:202:LYS:NZ	2.23	0.54
27:BD:242:ARG:O	27:BD:244:ARG:HG2	2.08	0.54
27:BD:50:THR:O	27:BD:51:VAL:HG22	2.07	0.54
28:BE:119:ARG:CZ	28:BE:155:LYS:CB	2.81	0.54
28:BE:8:LYS:CE	28:BE:8:LYS:CA	2.78	0.54
29:BF:74:ARG:HH12	29:BF:76:GLY:N	2.06	0.54
30:BG:170:ARG:O	30:BG:171:ALA:C	2.46	0.54
24:BA:2746:U:C4'	31:BH:139:GLN:HA	2.38	0.54
33:BL:8:VAL:HG11	33:BL:27:LEU:HD23	1.90	0.54
34:BM:51:PHE:CD1	34:BM:119:ARG:HB2	2.43	0.54
34:BM:34:LEU:HA	34:BM:49:GLY:C	2.28	0.54
35:BN:59:LYS:CA	35:BN:59:LYS:HE2	2.38	0.54
37:BP:12:GLN:NE2	37:BP:12:GLN:C	2.61	0.54
37:BP:42:ILE:CD1	37:BP:43:THR:O	2.55	0.54
24:BA:873:G:O2'	37:BP:65:PHE:CZ	2.59	0.54
40:BS:2:ASN:O	40:BS:6:LEU:HD22	2.07	0.54
40:BS:76:PHE:HZ	40:BS:78:LEU:HD12	1.70	0.54
41:BT:6:THR:O	41:BT:9:VAL:HB	2.07	0.54
41:BT:76:TYR:HD2	41:BT:80:ILE:HD11	1.63	0.54
41:BT:94:ASN:ND2	42:BU:6:LYS:CE	2.61	0.54
41:BT:91:ASP:OD1	42:BU:10:LYS:HD3	2.07	0.54
42:BU:50:PRO:CB	42:BU:53:GLU:OE1	2.55	0.54
43:BV:8:ARG:O	43:BV:10:VAL:HG22	2.08	0.54
45:BX:46:LYS:HZ1	45:BX:49:VAL:CG2	2.20	0.54
46:BY:141:VAL:HG12	46:BY:142:SER:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:87:ASP:OD2	46:BY:87:ASP:N	2.39	0.54
47:BZ:21:LEU:CD1	47:BZ:41:ARG:HG2	2.35	0.54
47:BZ:53:MET:HE3	47:BZ:59:LEU:N	2.22	0.54
32:BK:53:ALA:HB1	32:BK:57:ARG:NH2	2.22	0.54
32:BK:86:THR:CG2	32:BK:87:LYS:H	2.16	0.54
24:BA:2134:A:C2	24:BA:2135:A:N1	2.76	0.54
24:BA:2118:U:OP1	24:BA:2147:G:N1	2.40	0.54
24:BA:1581:G:O2'	24:BA:1582:C:H5'	2.07	0.54
33:BL:98:ARG:HD3	33:BL:139:VAL:CG1	2.37	0.54
24:BA:2671:A:OP2	28:BE:206:LYS:HD2	2.07	0.54
24:BA:489:G:C5	24:BA:1284:A:C2	2.95	0.54
24:BA:1562:A:O2'	24:BA:1563:G:H5'	2.07	0.54
1:AA:1036:G:N7	1:AA:1037:C:C5	2.76	0.54
1:AA:1055:A:N1	1:AA:1056:U:H1'	2.23	0.54
1:AA:1215:G:C2	1:AA:1216:G:N7	2.76	0.54
1:AA:1283:G:H2'	1:AA:1284:C:H5'	1.90	0.54
1:AA:133:U:H4'	1:AA:134:A:OP1	2.08	0.54
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.72	0.54
1:AA:1361:G:H3'	1:AA:1361:G:C8	2.43	0.54
1:AA:1365:G:C6	1:AA:1366:C:C4	2.95	0.54
1:AA:280:C:H1'	19:AT:38:ARG:CZ	2.38	0.54
1:AA:278:G:C1'	1:AA:282:A:H1'	2.38	0.54
1:AA:290:C:C2'	1:AA:291:C:H5'	2.38	0.54
1:AA:493:G:H2'	1:AA:494:U:C5	2.41	0.54
1:AA:522:C:H1'	1:AA:536:C:C5'	2.37	0.54
1:AA:540:G:O6	1:AA:541:G:C6	2.60	0.54
1:AA:541:G:H2'	1:AA:542:G:H8	1.72	0.54
1:AA:920:U:H2'	1:AA:921:U:H6	1.72	0.54
1:AA:946:A:H2'	1:AA:947:G:H8	1.63	0.54
1:AA:968:A:H2'	1:AA:968:A:N3	2.22	0.54
1:AA:974:A:OP2	16:AQ:31:ARG:CG	2.49	0.54
1:AA:979:C:OP2	1:AA:980:C:C5	2.61	0.54
4:AE:47:THR:HG1	4:AE:202:PRO:HG2	1.72	0.54
5:AF:110:ASN:HD21	5:AF:140:ARG:CG	2.19	0.54
5:AF:29:TYR:CD1	16:AQ:36:PHE:CZ	2.95	0.54
6:AG:99:SER:O	6:AG:140:VAL:HG23	2.08	0.54
8:AI:100:ASN:OD1	20:AU:26:LEU:O	2.25	0.54
8:AI:12:PRO:CB	8:AI:57:GLN:HE21	2.20	0.54
8:AI:52:ILE:CG2	8:AI:53:ALA:N	2.71	0.54
8:AI:80:ARG:CB	8:AI:88:VAL:HG21	2.38	0.54
9:AJ:86:GLN:HB2	9:AJ:148:ASN:CG	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:111:ILE:HG23	10:AK:119:LEU:O	2.07	0.54
10:AK:6:ILE:HD12	10:AK:7:ALA:N	2.23	0.54
10:AK:7:ALA:O	10:AK:8:ASP:C	2.46	0.54
11:AL:67:GLY:C	11:AL:73:GLN:HE21	2.11	0.54
11:AL:70:LYS:HD2	11:AL:70:LYS:N	2.22	0.54
13:AN:99:GLN:HA	13:AN:105:VAL:CG1	2.37	0.54
14:AO:48:PRO:HG2	14:AO:49:ASN:N	2.21	0.54
1:AA:520:A:OP1	14:AO:52:LEU:HD21	2.07	0.54
1:AA:1227:A:P	15:AP:111:LYS:HE3	2.48	0.54
15:AP:27:LYS:HD2	15:AP:31:LYS:HZ2	1.68	0.54
1:AA:1316:G:H5''	16:AQ:17:LYS:HZ2	1.73	0.54
19:AT:16:GLN:O	19:AT:17:LYS:CB	2.55	0.54
10:AK:91:ARG:CG	19:AT:34:LYS:HB2	2.27	0.54
19:AT:51:TYR:CD2	19:AT:57:VAL:HG11	2.43	0.54
19:AT:44:ALA:CA	19:AT:71:PHE:O	2.55	0.54
1:AA:735:C:H5'	20:AU:71:LYS:CD	2.38	0.54
23:AX:14:TRP:HZ3	23:AX:15:ARG:NE	2.02	0.54
48:B1:56:LEU:N	48:B1:56:LEU:CD1	2.70	0.54
50:B3:43:TYR:O	50:B3:44:THR:OG1	2.21	0.54
24:BA:1043:C:O2'	24:BA:1048:A:H1'	2.08	0.54
24:BA:1100:C:O5'	24:BA:1100:C:C6	2.61	0.54
24:BA:1174:A:H2	24:BA:1176:G:O5'	1.91	0.54
24:BA:1195:G:O2'	24:BA:1226:G:N2	2.39	0.54
24:BA:1267:U:O2'	24:BA:1268:A:OP1	2.19	0.54
24:BA:1519:G:C2'	24:BA:1520:U:O4'	2.55	0.54
24:BA:1534:G:N2	24:BA:1537:C:C5	2.61	0.54
24:BA:1621:U:C6	24:BA:1621:U:H3'	2.43	0.54
24:BA:1663:C:O2'	24:BA:1664:A:O4'	2.24	0.54
24:BA:1710:C:O2'	24:BA:2858:C:N4	2.41	0.54
24:BA:1783:A:OP2	24:BA:1783:A:C8	2.59	0.54
24:BA:1806:C:C2	24:BA:1807:G:C8	2.96	0.54
24:BA:1842:G:C4	24:BA:1843:C:C5	2.96	0.54
24:BA:1951:U:C2	24:BA:1953:A:H5'	2.43	0.54
24:BA:195:A:H5''	24:BA:196:A:OP2	2.07	0.54
24:BA:1764:G:C6	24:BA:1989:G:C2	2.96	0.54
24:BA:2092:U:H4'	24:BA:2225:A:C2	2.42	0.54
24:BA:2227:A:C6	24:BA:2228:G:N7	2.76	0.54
24:BA:2266:A:H5'	24:BA:2267:A:C4	2.42	0.54
24:BA:2285:C:C2	24:BA:2384:G:N2	2.75	0.54
24:BA:2436:G:O2'	24:BA:2437:U:P	2.66	0.54
24:BA:2462:U:C4	24:BA:2463:C:N4	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2510:C:N4	24:BA:2511:U:C4	2.76	0.54
24:BA:2519:U:C1'	24:BA:2542:A:N1	2.71	0.54
3:AB:75:C:H42	24:BA:2553:G:H1	1.56	0.54
24:BA:2574:G:H2'	24:BA:2575:C:C6	2.43	0.54
24:BA:2677:G:C2'	24:BA:2678:C:H5'	2.38	0.54
24:BA:2749:A:OP2	24:BA:2751:G:OP2	2.26	0.54
24:BA:2776:A:C4'	24:BA:2777:G:H5''	2.37	0.54
24:BA:2808:U:O2'	24:BA:2810:A:OP1	2.26	0.54
24:BA:2856:C:H2'	24:BA:2857:G:O5'	2.08	0.54
24:BA:2834:G:C4	24:BA:2879:C:C4	2.96	0.54
24:BA:292:C:C2'	24:BA:293:U:H3	2.20	0.54
24:BA:763:G:H5'	27:BD:211:ARG:CZ	2.38	0.54
24:BA:775:G:O4'	24:BA:777:A:C2	2.60	0.54
24:BA:764:A:C4	24:BA:781:A:N6	2.76	0.54
24:BA:856:C:H4'	47:BZ:69:PHE:HB3	1.89	0.54
24:BA:859:G:O2'	24:BA:860:U:H5''	2.07	0.54
24:BA:864:G:N2	24:BA:913:U:H1'	2.22	0.54
24:BA:977:G:H4'	24:BA:1155:A:H5''	1.90	0.54
25:BB:37:C:O2	39:BR:95:HIS:CD2	2.61	0.54
27:BD:132:PRO:HA	27:BD:190:TYR:CD1	2.42	0.54
28:BE:109:LYS:CG	28:BE:191:PRO:HG3	2.25	0.54
28:BE:27:LEU:HD13	28:BE:76:ARG:NH1	2.23	0.54
28:BE:51:PHE:HE1	28:BE:76:ARG:H	1.55	0.54
29:BF:3:GLU:OE1	29:BF:21:ALA:HA	2.08	0.54
30:BG:130:ASN:O	30:BG:161:THR:HG23	2.08	0.54
30:BG:55:LYS:CE	30:BG:151:ALA:HB1	2.36	0.54
30:BG:153:ARG:O	30:BG:155:MET:N	2.41	0.54
30:BG:40:ASN:O	30:BG:156:ASP:O	2.25	0.54
30:BG:82:LEU:O	30:BG:83:ARG:HG3	2.07	0.54
31:BH:35:VAL:CB	31:BH:72:ILE:HG23	2.37	0.54
32:BK:3:VAL:O	32:BK:18:VAL:HA	2.08	0.54
33:BL:20:ALA:O	33:BL:25:PRO:HD3	2.07	0.54
33:BL:18:THR:N	33:BL:38:VAL:CG2	2.70	0.54
34:BM:99:LEU:HD12	34:BM:100:GLU:CA	2.37	0.54
35:BN:20:MET:O	35:BN:41:ALA:HB1	2.07	0.54
35:BN:64:ARG:NE	35:BN:67:LYS:N	2.55	0.54
38:BQ:87:TYR:O	38:BQ:89:ASP:N	2.41	0.54
40:BS:57:PHE:O	40:BS:58:ASN:HB3	2.08	0.54
41:BT:88:ILE:HB	42:BU:52:VAL:CA	2.38	0.54
41:BT:83:LEU:O	41:BT:90:VAL:CG2	2.55	0.54
42:BU:21:ARG:N	42:BU:93:GLU:OE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:24:ILE:O	43:BV:25:ARG:O	2.26	0.54
43:BV:38:TYR:N	43:BV:38:TYR:CD1	2.75	0.54
45:BX:35:TYR:OH	45:BX:67:LEU:HB2	2.07	0.54
45:BX:50:ARG:HA	45:BX:54:LYS:CA	2.32	0.54
47:BZ:37:LEU:HD21	47:BZ:60:PHE:C	2.28	0.54
24:BA:2160:G:O2'	24:BA:2161:C:O4'	2.26	0.54
26:BC:103:ILE:HA	26:BC:107:TRP:O	2.07	0.54
33:BL:138:VAL:HG23	33:BL:138:VAL:O	2.07	0.54
32:BK:52:ARG:O	32:BK:55:ALA:HB3	2.07	0.54
51:B4:60:VAL:HG22	51:B4:60:VAL:O	2.08	0.54
1:AA:1068:G:H2'	1:AA:1069:C:C6	2.41	0.54
1:AA:110:C:H2'	1:AA:111:G:C5'	2.37	0.54
1:AA:1263:C:C2'	1:AA:1264:C:H6	2.16	0.54
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.60	0.54
1:AA:1345:U:N3	1:AA:1377:A:C6	2.75	0.54
1:AA:1392:G:H2'	1:AA:1393:U:H6	1.73	0.54
1:AA:1446:A:O2'	1:AA:1447:G:OP1	2.25	0.54
1:AA:1465:C:N4	1:AA:1466:C:C4	2.75	0.54
1:AA:281:G:HO2'	1:AA:282:A:P	2.31	0.54
1:AA:321:A:H2'	1:AA:322:C:C6	2.43	0.54
1:AA:389:A:C4	1:AA:390:C:O4'	2.61	0.54
1:AA:450:G:H5''	1:AA:451:A:H3'	1.90	0.54
1:AA:474:G:H5'	18:AS:81:ARG:CD	2.36	0.54
1:AA:451:A:OP1	1:AA:481:G:N2	2.40	0.54
1:AA:486:U:N3	1:AA:487:A:C8	2.76	0.54
1:AA:27:G:C2	1:AA:557:G:N3	2.75	0.54
1:AA:600:C:H5'	10:AK:129:VAL:CA	2.38	0.54
1:AA:738:C:N4	1:AA:739:C:N4	2.56	0.54
1:AA:769:G:C5'	1:AA:1513:A:H4'	2.37	0.54
1:AA:789:U:H2'	1:AA:790:A:H3'	1.90	0.54
3:AB:48:C:N3	3:AB:59:U:C6	2.75	0.54
4:AE:212:GLN:O	4:AE:213:LEU:C	2.43	0.54
4:AE:221:LEU:HD22	4:AE:221:LEU:O	2.07	0.54
6:AG:8:VAL:C	6:AG:10:ARG:N	2.59	0.54
6:AG:38:TYR:CE1	6:AG:45:GLN:NE2	2.70	0.54
7:AH:35:GLY:HA3	7:AH:41:VAL:HG12	1.89	0.54
7:AH:80:ILE:HA	7:AH:81:GLU:OE2	2.07	0.54
9:AJ:107:ALA:CB	9:AJ:123:GLU:OE1	2.56	0.54
9:AJ:5:ARG:NH1	9:AJ:5:ARG:O	2.41	0.54
9:AJ:75:VAL:HA	9:AJ:89:MET:CE	2.37	0.54
10:AK:70:GLN:HA	10:AK:70:GLN:HE21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:93:ARG:HH22	11:AL:97:LYS:HE2	1.73	0.54
14:AO:7:ILE:HG22	14:AO:8:ASN:N	2.23	0.54
15:AP:20:THR:HG23	15:AP:25:ILE:O	2.07	0.54
1:AA:1316:G:C4'	16:AQ:17:LYS:HD2	2.36	0.54
17:AR:79:ARG:HB3	17:AR:79:ARG:HH11	1.73	0.54
17:AR:29:VAL:HG12	17:AR:85:LEU:HD21	1.89	0.54
18:AS:20:VAL:HG12	18:AS:21:VAL:N	2.21	0.54
18:AS:61:SER:OG	18:AS:62:VAL:N	2.39	0.54
20:AU:44:LEU:O	20:AU:45:SER:OG	2.21	0.54
48:B1:63:ARG:NH2	48:B1:63:ARG:HB3	2.22	0.54
51:B4:19:ARG:C	51:B4:21:SER:N	2.61	0.54
52:B5:12:GLU:CG	52:B5:53:LYS:O	2.56	0.54
24:BA:1031:G:N1	24:BA:1032:A:C6	2.75	0.54
24:BA:1093:G:N2	24:BA:1098:A:H62	2.06	0.54
24:BA:1213:A:C6	24:BA:1237:A:H1'	2.42	0.54
24:BA:1401:G:C6	24:BA:1402:C:C4	2.95	0.54
24:BA:149:A:C8	24:BA:149:A:H3'	2.43	0.54
24:BA:1480:G:C6	24:BA:1514:U:O4	2.60	0.54
24:BA:1613:G:OP1	53:B6:5:TRP:CD1	2.61	0.54
24:BA:1637:A:C6	24:BA:1638:C:N4	2.76	0.54
24:BA:1655:A:N3	24:BA:1656:C:H1'	2.23	0.54
24:BA:1670:C:O5'	24:BA:1671:U:C5	2.61	0.54
24:BA:1819:A:O2'	24:BA:1820:U:C5'	2.55	0.54
24:BA:1909:C:C4	24:BA:1922:G:N1	2.76	0.54
24:BA:1996:C:H2'	24:BA:1997:G:H5'	1.84	0.54
24:BA:2323:G:C6	24:BA:2324:C:N4	2.76	0.54
24:BA:2375:G:H1'	24:BA:2377:A:N7	2.23	0.54
24:BA:237:C:C2	24:BA:238:C:C5	2.96	0.54
24:BA:2394:C:N4	24:BA:2422:A:C6	2.76	0.54
24:BA:248:G:OP1	50:B3:28:LYS:CE	2.55	0.54
24:BA:2523:G:C1'	24:BA:2765:A:N7	2.71	0.54
24:BA:2644:G:H1	24:BA:2645:G:N2	2.04	0.54
24:BA:2544:G:H4'	24:BA:2645:G:OP1	2.07	0.54
24:BA:270(H):C:H2'	24:BA:270(I):G:C8	2.40	0.54
24:BA:2834:G:H3'	24:BA:2834:G:C8	2.42	0.54
24:BA:2848:G:N9	40:BS:99:LEU:HD21	2.23	0.54
24:BA:310:A:OP1	45:BX:16:ALA:HB1	2.08	0.54
24:BA:318:C:O2'	24:BA:319:C:H5'	2.08	0.54
24:BA:295:G:N2	24:BA:344:G:H1'	2.23	0.54
24:BA:462:C:C4	24:BA:468:G:C2	2.96	0.54
24:BA:14:A:N1	24:BA:526:A:C6	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:544:C:O2'	24:BA:545:G:H5'	2.08	0.54
24:BA:816:C:H5'	24:BA:816:C:C6	2.35	0.54
24:BA:846:C:H4'	24:BA:847:U:O5'	2.07	0.54
24:BA:862:G:N3	24:BA:863:A:H1'	2.23	0.54
24:BA:959:A:C4	24:BA:960:A:N7	2.76	0.54
25:BB:32:C:C2'	25:BB:33:G:C8	2.87	0.54
25:BB:80:U:O2	25:BB:81:G:N7	2.41	0.54
25:BB:85:G:N3	25:BB:86:G:C8	2.76	0.54
27:BD:175:LEU:O	27:BD:182:LEU:HD23	2.07	0.54
27:BD:13:ARG:HD3	27:BD:22:SER:HB2	1.90	0.54
27:BD:228:PRO:C	27:BD:230:ASP:N	2.57	0.54
28:BE:121:ASN:O	28:BE:122:PHE:O	2.25	0.54
28:BE:91:VAL:HG13	28:BE:92:THR:H	1.73	0.54
24:BA:660:G:H5''	29:BF:99:TYR:CE1	2.43	0.54
31:BH:35:VAL:HB	31:BH:72:ILE:HG12	1.90	0.54
31:BH:87:LEU:N	31:BH:132:ARG:CB	2.71	0.54
31:BH:88:LEU:HD23	31:BH:89:ILE:C	2.27	0.54
31:BH:98:LEU:HD21	31:BH:123:PHE:HD2	1.73	0.54
35:BN:19:ILE:HB	35:BN:42:SER:O	2.07	0.54
36:BO:15:ARG:HG3	36:BO:16:ARG:N	2.21	0.54
24:BA:666:G:H5'	36:BO:45:LEU:HD12	1.89	0.54
36:BO:77:ARG:HA	36:BO:115:LEU:HB2	1.89	0.54
37:BP:106:VAL:O	37:BP:107:ALA:CB	2.56	0.54
37:BP:72:LYS:HE2	37:BP:96:VAL:HG21	1.89	0.54
37:BP:90:VAL:C	37:BP:91:GLU:CD	2.66	0.54
24:BA:1653:G:O6	38:BQ:11:ASN:HA	2.08	0.54
25:BB:7:G:C4'	39:BR:29:PHE:CE2	2.84	0.54
24:BA:563:G:N2	41:BT:34:LYS:HZ3	2.04	0.54
43:BV:8:ARG:CZ	43:BV:102:HIS:ND1	2.71	0.54
43:BV:74:ALA:CB	43:BV:105:VAL:HA	2.38	0.54
44:BW:34:ALA:HB1	44:BW:38:GLU:HB3	1.90	0.54
44:BW:89:ILE:HG22	44:BW:89:ILE:O	2.08	0.54
47:BZ:50:ASN:HB3	47:BZ:63:VAL:CG1	2.37	0.54
26:BC:29:VAL:HG21	26:BC:41:VAL:CG1	2.37	0.54
43:BV:60:ASN:ND2	43:BV:61:ASN:ND2	2.55	0.54
24:BA:1509:C:H3'	24:BA:1509:C:OP2	2.07	0.54
3:AD:26:A:N3	3:AD:26:A:H2'	2.23	0.54
24:BA:55:G:H2'	24:BA:56:A:H8	1.72	0.54
14:AO:18:VAL:O	14:AO:19:ARG:CB	2.55	0.54
3:AB:47:U:N3	3:AB:49:C:H4'	2.23	0.54
1:AA:1056:U:O2	1:AA:1056:U:H2'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1059:C:O2'	12:AM:53:PRO:CD	2.56	0.54
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.08	0.54
1:AA:1347:G:H2'	11:AL:107:ARG:O	2.07	0.54
1:AA:1411:C:N3	1:AA:1412:C:C5	2.75	0.54
1:AA:145:G:N1	1:AA:178:C:C4	2.76	0.54
1:AA:199:G:H2'	1:AA:200:G:H8	1.73	0.54
1:AA:198:G:H2'	1:AA:199:G:O5'	2.08	0.54
1:AA:475:G:C2'	1:AA:476:G:C8	2.79	0.54
1:AA:696:A:C6	1:AA:697:U:H1'	2.43	0.54
1:AA:752:G:OP2	1:AA:752:G:H8	1.90	0.54
1:AA:755:G:OP2	17:AR:65:ARG:CD	2.56	0.54
1:AA:950:U:H1'	1:AA:971:G:N3	2.23	0.54
3:AB:37:A:C2'	3:AB:38:A:H5'	2.38	0.54
3:AC:19:G:C2	3:AC:57:G:N3	2.76	0.54
3:AC:59:U:C2'	3:AC:59:U:O2	2.54	0.54
4:AE:173:ALA:O	4:AE:174:VAL:C	2.46	0.54
6:AG:31:CYS:O	6:AG:33:MET:CG	2.53	0.54
7:AH:104:ALA:N	7:AH:107:ARG:HH12	2.06	0.54
8:AI:19:LEU:HG	8:AI:23:LYS:HD3	1.89	0.54
8:AI:64:GLN:C	8:AI:65:VAL:HG12	2.27	0.54
8:AI:76:ALA:C	8:AI:79:LEU:HG	2.28	0.54
1:AA:876:G:O2'	10:AK:11:THR:CG2	2.56	0.54
10:AK:65:TYR:HA	10:AK:79:VAL:HG23	1.88	0.54
13:AN:101:SER:OG	13:AN:103:LEU:HG	2.08	0.54
1:AA:363:A:C4	14:AO:31:PRO:HG2	2.42	0.54
14:AO:34:ARG:HA	14:AO:84:LEU:HB2	1.89	0.54
14:AO:62:SER:OG	14:AO:64:TYR:CG	2.57	0.54
15:AP:95:GLY:C	15:AP:110:ARG:HD2	2.28	0.54
15:AP:13:LYS:O	15:AP:17:VAL:HB	2.08	0.54
18:AS:27:LYS:N	18:AS:27:LYS:NZ	2.55	0.54
19:AT:66:SER:OG	19:AT:67:LYS:N	2.36	0.54
19:AT:81:ARG:HG3	19:AT:84:LEU:CG	2.38	0.54
20:AU:62:GLU:O	20:AU:66:LEU:CG	2.42	0.54
20:AU:75:ILE:HG22	20:AU:76:LEU:HD13	1.89	0.54
20:AU:81:PHE:O	20:AU:82:THR:HG22	2.07	0.54
21:AV:27:GLU:HG2	21:AV:29:ARG:N	2.11	0.54
24:BA:1364:G:O6	50:B3:2:LYS:HG3	2.08	0.54
24:BA:247:G:H1	54:B7:8:LYS:CD	2.21	0.54
24:BA:1069:A:C5'	24:BA:1070:A:O5'	2.56	0.54
24:BA:1027:A:C6	24:BA:1126:A:C4	2.96	0.54
24:BA:1137:G:C8	24:BA:1138:G:C8	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1289:C:C2	24:BA:1290:C:C5	2.96	0.54
24:BA:1409:C:H2'	24:BA:1410:G:O4'	2.07	0.54
24:BA:1432:C:O2'	24:BA:1433:U:H5'	2.08	0.54
24:BA:1437:C:O3'	24:BA:1517:G:H5'	2.08	0.54
24:BA:1477:A:H2'	24:BA:1478:G:H1'	1.90	0.54
24:BA:1591:G:H2'	24:BA:1592:C:H6	1.73	0.54
24:BA:1598:C:H5''	44:BW:36:LYS:CB	2.19	0.54
24:BA:1632:A:H8	24:BA:1632:A:O5'	1.90	0.54
24:BA:1688:U:H3	24:BA:1700:A:H5''	1.73	0.54
24:BA:1692:U:H1'	24:BA:1696:G:H21	1.71	0.54
24:BA:1835:G:C4	24:BA:1931:U:N3	2.74	0.54
24:BA:1857:G:H2'	24:BA:1858:G:C5	2.42	0.54
24:BA:1952:A:C5	24:BA:1953:A:N1	2.76	0.54
24:BA:2004:G:C5	24:BA:2005:A:C5	2.96	0.54
24:BA:2014:A:O2'	24:BA:2015:A:N3	2.37	0.54
24:BA:2286:A:H3'	24:BA:2286:A:H8	1.71	0.54
24:BA:2449:U:OP1	24:BA:2449:U:O4'	2.26	0.54
24:BA:2484:G:H1'	37:BP:124:LYS:HZ1	1.71	0.54
24:BA:1669:A:C5'	24:BA:2550:G:OP1	2.46	0.54
24:BA:2638:G:N7	24:BA:2775:A:N1	2.55	0.54
24:BA:269:U:N3	24:BA:424:G:C6	2.76	0.54
24:BA:334:C:OP2	24:BA:335:C:H5	1.90	0.54
24:BA:412:A:H2'	24:BA:413:C:C5'	2.38	0.54
24:BA:522:G:H2'	24:BA:523:C:C6	2.43	0.54
24:BA:676:A:O4'	24:BA:2443:C:O4'	2.26	0.54
24:BA:735:A:H2'	24:BA:736:C:C5'	2.37	0.54
24:BA:733:G:O6	24:BA:761:A:C8	2.60	0.54
24:BA:832:G:C2'	24:BA:833:U:C5	2.89	0.54
24:BA:840:C:H5'	24:BA:1192:G:H1'	1.89	0.54
24:BA:931:G:H21	49:B2:24:LYS:CB	2.15	0.54
24:BA:832:G:H8	24:BA:944:G:H21	1.56	0.54
24:BA:987:G:C6	24:BA:988:A:C5	2.96	0.54
25:BB:59:A:C5	25:BB:60:C:C6	2.96	0.54
25:BB:61:G:C2	25:BB:62:C:N3	2.75	0.54
25:BB:63:G:H2'	25:BB:64:C:H6	1.73	0.54
27:BD:142:VAL:HB	27:BD:192:THR:O	2.08	0.54
27:BD:208:LYS:HZ1	27:BD:211:ARG:NH2	2.05	0.54
27:BD:53:PHE:CD2	27:BD:221:VAL:HG13	2.42	0.54
24:BA:37:C:O2'	29:BF:50:SER:OG	2.21	0.54
31:BH:149:ARG:CZ	31:BH:164:TYR:CD1	2.82	0.54
31:BH:8:PRO:CB	31:BH:51:ARG:NH1	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:5:LEU:HD21	32:BK:18:VAL:CA	2.38	0.54
33:BL:30:HIS:O	33:BL:30:HIS:ND1	2.40	0.54
33:BL:71:THR:HB	33:BL:111:LYS:HE2	1.89	0.54
33:BL:89:HIS:O	33:BL:90:LYS:CG	2.55	0.54
34:BM:3:THR:CG2	34:BM:4:TYR:H	2.07	0.54
36:BO:114:ILE:HG12	36:BO:130:PHE:CA	2.35	0.54
36:BO:48:PRO:O	36:BO:51:PHE:HB2	2.08	0.54
37:BP:27:VAL:CG1	37:BP:102:VAL:HG21	2.38	0.54
39:BR:77:ALA:HA	39:BR:80:LEU:HB2	1.90	0.54
42:BU:12:TYR:CD1	42:BU:14:VAL:HG23	2.43	0.54
43:BV:5:ALA:O	43:BV:105:VAL:HG13	2.08	0.54
43:BV:58:ALA:HA	43:BV:62:HIS:HB3	1.90	0.54
46:BY:157:LEU:HD22	46:BY:161:VAL:HG22	1.90	0.54
46:BY:25:PRO:CG	46:BY:84:GLU:O	2.56	0.54
32:BK:132:PRO:CD	32:BK:138:ILE:N	2.71	0.54
32:BK:69:LYS:O	32:BK:73:GLU:CG	2.56	0.54
24:BA:2118:U:OP1	24:BA:2147:G:C6	2.60	0.54
26:BC:131:LEU:HD13	26:BC:136:LEU:O	2.07	0.54
26:BC:59:ARG:HD2	26:BC:162:GLU:CD	2.27	0.54
1:AA:799:G:N2	1:AA:800:G:H1'	2.23	0.54
1:AA:1085:U:H5''	1:AA:1086:U:C5	2.43	0.54
1:AA:1339:A:H8	1:AA:1339:A:O5'	1.91	0.54
1:AA:1373:G:H4'	9:AJ:34:GLY:O	2.08	0.54
1:AA:1405:G:C4	1:AA:1406:U:C5	2.96	0.54
1:AA:1431:C:N3	1:AA:1469:G:N1	2.55	0.54
1:AA:927:G:C5'	1:AA:1503:A:H62	2.20	0.54
1:AA:167:G:H2'	1:AA:168:G:C8	2.43	0.54
1:AA:50:A:O2'	1:AA:52:G:C5	2.61	0.54
1:AA:51:A:C2'	1:AA:52:G:OP2	2.56	0.54
1:AA:703:G:O5'	1:AA:703:G:C8	2.61	0.54
1:AA:864:A:C6	1:AA:865:A:N1	2.76	0.54
1:AA:950:U:C2'	1:AA:951:G:H5'	2.38	0.54
1:AA:965:A:C8	1:AA:969:A:N3	2.76	0.54
3:AB:21:A:C2	3:AB:48:C:H1'	2.43	0.54
3:AC:21:A:C2'	3:AC:22:G:O5'	2.55	0.54
3:AC:70:G:C4	3:AC:71:G:C8	2.95	0.54
4:AE:175:ARG:HA	4:AE:178:ARG:CB	2.38	0.54
4:AE:187:LEU:HB2	4:AE:201:ILE:CG2	2.38	0.54
4:AE:58:ILE:HG22	4:AE:221:LEU:CD1	2.38	0.54
4:AE:80:ILE:HD13	4:AE:212:GLN:HE21	1.73	0.54
1:AA:1205:U:C4'	5:AF:195:VAL:HG13	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:40:ARG:HG3	5:AF:40:ARG:HH11	1.72	0.54
1:AA:620:C:C1'	6:AG:135:LEU:HD13	2.38	0.54
6:AG:133:VAL:CG1	6:AG:138:TYR:HD1	2.07	0.54
6:AG:150:GLU:C	6:AG:152:SER:H	2.12	0.54
6:AG:30:LYS:H	6:AG:34:GLU:HB3	1.71	0.54
7:AH:76:ILE:CG2	7:AH:78:HIS:CD2	2.91	0.54
8:AI:13:ASN:N	8:AI:13:ASN:ND2	2.56	0.54
9:AJ:21:VAL:HG23	9:AJ:22:LEU:CD2	2.38	0.54
9:AJ:38:LEU:HA	9:AJ:41:ARG:CB	2.37	0.54
10:AK:67:PRO:CD	10:AK:76:PRO:HB3	2.38	0.54
11:AL:69:GLY:C	11:AL:73:GLN:OE1	2.46	0.54
12:AM:10:GLY:CA	12:AM:16:LEU:HD21	2.38	0.54
13:AN:126:ARG:C	13:AN:128:ALA:N	2.62	0.54
14:AO:27:LEU:HD22	14:AO:62:SER:OG	2.07	0.54
17:AR:81:LEU:O	17:AR:82:ILE:C	2.47	0.54
20:AU:41:LYS:O	20:AU:43:PHE:N	2.36	0.54
21:AV:22:LEU:HA	21:AV:25:LYS:NZ	2.23	0.54
48:B1:27:LEU:HD11	48:B1:48:LEU:HG	1.90	0.54
48:B1:50:ARG:HB3	48:B1:54:ARG:HH22	1.73	0.54
24:BA:988:A:O3'	49:B2:10:LYS:CE	2.56	0.54
51:B4:47:PRO:O	51:B4:58:LEU:HG	2.08	0.54
53:B6:32:LYS:HA	53:B6:35:ARG:HD3	1.88	0.54
54:B7:25:MET:O	54:B7:27:THR:N	2.41	0.54
24:BA:1071:G:C2	24:BA:1089:G:H2'	2.43	0.54
24:BA:112:U:H3'	24:BA:113:G:C4'	2.38	0.54
24:BA:1174:A:N6	24:BA:1177:A:N1	2.49	0.54
24:BA:1291:C:H2'	24:BA:1292:U:H6	1.71	0.54
24:BA:1314:C:N3	24:BA:1315:C:C5	2.76	0.54
24:BA:1367:A:H62	24:BA:1368:G:H1'	1.72	0.54
24:BA:1559:G:N3	24:BA:1559:G:H2'	2.23	0.54
24:BA:1717:G:H1	24:BA:1718:G:N2	2.06	0.54
24:BA:1779:U:C3'	24:BA:1779:U:C6	2.91	0.54
24:BA:188:G:H2'	24:BA:189:G:H8	1.73	0.54
24:BA:1909:C:C2	24:BA:1922:G:N2	2.76	0.54
24:BA:2207:C:C3'	24:BA:2208:U:H5''	2.34	0.54
24:BA:226:G:N1	24:BA:227:A:C2	2.76	0.54
24:BA:2403:C:O2	24:BA:2404:C:C6	2.61	0.54
24:BA:2458:G:C8	24:BA:2490:G:C6	2.96	0.54
24:BA:2706:G:C4	24:BA:2707:G:C8	2.95	0.54
24:BA:270(F):U:H2'	24:BA:270(G):C:O4'	2.08	0.54
24:BA:2751:G:N3	24:BA:2751:G:H2'	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2776:A:N7	24:BA:2781:A:C5	2.76	0.54
24:BA:1710:C:C1'	24:BA:2858:C:H42	2.21	0.54
24:BA:2848:G:C2	24:BA:2867:G:N3	2.76	0.54
24:BA:303:U:C2	24:BA:315:G:N2	2.76	0.54
24:BA:364:C:C4	24:BA:365:C:N4	2.76	0.54
24:BA:388:G:C5'	50:B3:23:GLU:HB3	2.38	0.54
24:BA:522:G:C6	24:BA:523:C:C4	2.96	0.54
24:BA:523:C:C2'	24:BA:524:U:H5'	2.38	0.54
24:BA:530:G:O2'	24:BA:531:C:O3'	2.25	0.54
24:BA:532:A:C8	24:BA:533:G:H1'	2.41	0.54
24:BA:568:U:O4	24:BA:973:A:OP2	2.26	0.54
24:BA:61:G:C5	24:BA:62:C:C4	2.96	0.54
24:BA:696:G:N3	24:BA:697:C:C6	2.76	0.54
24:BA:729:G:OP1	27:BD:13:ARG:NH2	2.40	0.54
24:BA:781:A:C8	27:BD:220:HIS:CE1	2.96	0.54
24:BA:824:A:C2'	24:BA:825:C:C5	2.91	0.54
24:BA:908:C:H2'	24:BA:909:A:O5'	2.07	0.54
25:BB:79:C:O2'	25:BB:80:U:H5'	2.07	0.54
24:BA:2216:G:N2	27:BD:150:LYS:HZ3	2.05	0.54
29:BF:56:GLU:C	29:BF:60:SER:OG	2.46	0.54
30:BG:177:GLY:O	30:BG:178:PHE:CB	2.56	0.54
30:BG:22:ARG:HG3	30:BG:23:PHE:N	2.23	0.54
31:BH:6:ARG:HD2	31:BH:66:GLY:CA	2.36	0.54
32:BK:31:LEU:CD2	32:BK:36:ALA:N	2.71	0.54
32:BK:5:LEU:HD12	32:BK:8:PRO:C	2.27	0.54
34:BM:74:ARG:HG2	34:BM:76:SER:HB2	1.90	0.54
35:BN:84:ALA:HB3	35:BN:114:ILE:HD11	1.89	0.54
35:BN:19:ILE:C	35:BN:19:ILE:HD12	2.28	0.54
24:BA:1665:A:H1'	35:BN:1:MET:HG2	1.90	0.54
36:BO:46:LYS:CB	36:BO:49:ARG:HB2	2.20	0.54
37:BP:85:LYS:HG3	37:BP:86:GLY:N	2.24	0.54
38:BQ:116:LEU:O	38:BQ:116:LEU:HG	2.07	0.54
38:BQ:31:HIS:HD2	38:BQ:34:ILE:HD11	1.72	0.54
38:BQ:53:HIS:HA	38:BQ:56:LYS:CD	2.38	0.54
38:BQ:65:LEU:O	38:BQ:68:ARG:HB3	2.08	0.54
39:BR:62:LYS:O	39:BR:64:GLU:N	2.41	0.54
39:BR:94:TYR:HB3	39:BR:99:LYS:HA	1.89	0.54
40:BS:3:ARG:HA	40:BS:6:LEU:HD21	1.89	0.54
41:BT:92:ARG:C	41:BT:93:LYS:HZ3	2.11	0.54
43:BV:19:LEU:HA	51:B4:25:LEU:HD22	1.90	0.54
44:BW:7:VAL:HB	48:B1:28:MET:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:47:LYS:HB2	45:BX:49:VAL:CG1	2.38	0.54
45:BX:72:VAL:HG21	45:BX:96:ILE:HG21	1.89	0.54
46:BY:100:VAL:CG1	46:BY:133:ILE:HB	2.38	0.54
46:BY:82:ARG:CG	46:BY:83:PRO:N	2.70	0.54
3:AD:48:C:OP1	3:AD:48:C:H6	1.91	0.54
24:BA:2110:G:H4'	24:BA:2111:C:OP1	2.07	0.54
26:BC:126:LYS:O	26:BC:130:ILE:HD13	2.07	0.54
26:BC:210:ARG:HG2	26:BC:210:ARG:HH11	1.73	0.54
1:AA:1172:C:H2'	1:AA:1173:G:O4'	2.08	0.54
3:AD:40:C:C3'	3:AD:41:C:C5'	2.83	0.54
3:AD:27:G:H2'	3:AD:28:G:H8	1.73	0.54
6:AG:159:ARG:HH11	6:AG:159:ARG:HG2	1.73	0.54
1:AA:1026:G:N7	1:AA:1027:C:C6	2.76	0.53
1:AA:1048:G:N2	1:AA:1210:C:H1'	2.22	0.53
1:AA:1064:G:N2	1:AA:1192:C:N3	2.56	0.53
1:AA:1068:G:OP2	1:AA:1094:G:H5'	2.07	0.53
1:AA:1178:G:H21	1:AA:1180:A:H3'	1.74	0.53
1:AA:1185:G:C2'	1:AA:1186:G:H5'	2.38	0.53
1:AA:120:A:C8	1:AA:122:G:C6	2.96	0.53
1:AA:1321:C:H4'	15:AP:87:TYR:HH	1.71	0.53
1:AA:1346:A:C2	9:AJ:10:ARG:CD	2.87	0.53
1:AA:1353:G:C4	1:AA:1370:G:N2	2.76	0.53
1:AA:1353:G:N3	1:AA:1370:G:N2	2.55	0.53
1:AA:1399:C:N3	1:AA:1502:A:N6	2.56	0.53
1:AA:1462:G:H2'	1:AA:1463:C:H6	1.73	0.53
1:AA:306:G:C2'	1:AA:307:C:H5'	2.37	0.53
1:AA:582:U:H6	1:AA:582:U:O5'	1.90	0.53
1:AA:607:A:C4	1:AA:608:A:C8	2.96	0.53
1:AA:689:C:C5	1:AA:690:G:N7	2.76	0.53
1:AA:728:A:H8	17:AR:54:ARG:NH2	2.06	0.53
1:AA:735:C:H6	1:AA:735:C:O5'	1.90	0.53
1:AA:756:C:H4'	1:AA:823:G:O2'	2.08	0.53
1:AA:88:C:H2'	1:AA:89:U:OP2	2.07	0.53
1:AA:961:U:C6	1:AA:983:A:C6	2.95	0.53
1:AA:974:A:H5'	1:AA:975:A:P	2.48	0.53
1:AA:981:U:C3'	1:AA:981:U:C6	2.91	0.53
1:AA:993:G:HO2'	1:AA:994:A:P	2.32	0.53
3:AB:52:G:H4'	24:BA:2471:C:H5''	1.89	0.53
3:AB:63:G:H1'	24:BA:2482:G:C4'	2.38	0.53
3:AD:32:U:H2'	3:AD:33:U:H5'	1.90	0.53
4:AE:80:ILE:HD13	4:AE:211:ILE:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:52:GLU:OE1	4:AE:53:ARG:N	2.41	0.53
5:AF:43:LEU:HD11	5:AF:55:VAL:HG11	1.89	0.53
6:AG:123:HIS:HB2	6:AG:125:HIS:HE1	1.71	0.53
6:AG:118:ARG:HH21	6:AG:136:PRO:HB2	1.70	0.53
6:AG:146:ILE:O	6:AG:146:ILE:CD1	2.56	0.53
1:AA:509:A:OP1	6:AG:52:SER:HB3	2.08	0.53
7:AH:44:GLY:HA3	7:AH:61:TYR:HB2	1.90	0.53
7:AH:34:VAL:HG21	7:AH:62:ALA:HB1	1.89	0.53
9:AJ:15:ASP:HB2	9:AJ:23:VAL:HB	1.90	0.53
9:AJ:45:ASP:O	9:AJ:49:ILE:HD12	2.07	0.53
10:AK:109:ILE:O	10:AK:109:ILE:CG1	2.57	0.53
10:AK:82:HIS:NE2	10:AK:84:ARG:CG	2.70	0.53
10:AK:8:ASP:OD2	10:AK:8:ASP:C	2.46	0.53
12:AM:60:ARG:NH1	12:AM:60:ARG:HB2	2.23	0.53
13:AN:71:LYS:O	13:AN:74:ALA:N	2.41	0.53
1:AA:362:G:O5'	14:AO:34:ARG:NH2	2.41	0.53
14:AO:41:ARG:CG	14:AO:42:THR:H	2.21	0.53
16:AQ:27:CYS:SG	16:AQ:42:ILE:CD1	2.96	0.53
17:AR:69:TYR:HA	17:AR:72:ARG:HB3	1.90	0.53
18:AS:56:ALA:C	18:AS:60:LEU:HD12	2.29	0.53
18:AS:76:GLN:O	18:AS:77:ALA:C	2.46	0.53
19:AT:6:LEU:CD1	19:AT:6:LEU:C	2.76	0.53
19:AT:75:ARG:HH22	19:AT:77:VAL:CG2	2.13	0.53
13:AN:110:ASP:HB2	20:AU:88:LYS:CD	2.38	0.53
21:AV:51:VAL:HG21	21:AV:60:VAL:HG21	1.91	0.53
1:AA:1319:A:H4'	21:AV:70:LYS:HZ2	1.71	0.53
22:AW:57:ARG:HH21	22:AW:100:ILE:HD12	1.73	0.53
22:AW:72:LEU:CD2	22:AW:76:ALA:CB	2.86	0.53
48:B1:25:ARG:HH21	48:B1:25:ARG:CG	2.17	0.53
49:B2:9:VAL:HG21	49:B2:52:HIS:O	2.08	0.53
51:B4:10:LYS:HD2	51:B4:15:ARG:NH2	2.24	0.53
24:BA:1311:G:C8	53:B6:48:LYS:HD3	2.43	0.53
36:BO:57:THR:HG21	54:B7:31:HIS:HD2	1.73	0.53
24:BA:1044:G:H2'	24:BA:1111:A:C2	2.43	0.53
24:BA:1062:G:C5'	24:BA:1070:A:H5'	2.38	0.53
24:BA:1085:A:HO2'	24:BA:1086:A:P	2.30	0.53
24:BA:1168:G:O6	24:BA:1169:G:C6	2.62	0.53
24:BA:1210:A:H5''	24:BA:1211:U:H3'	1.91	0.53
24:BA:1225:C:N3	24:BA:1226:G:N1	2.56	0.53
24:BA:1404:C:O2	24:BA:1405:U:C6	2.61	0.53
24:BA:1340:U:C2	24:BA:1602:U:C5	2.95	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1613:G:H2'	24:BA:1614:A:OP1	2.08	0.53
24:BA:1670:C:H1'	24:BA:1994:C:H4'	1.89	0.53
24:BA:1780:A:H3'	24:BA:1781:C:C5'	2.25	0.53
3:AD:71:G:H5''	24:BA:1892:C:O2'	2.07	0.53
24:BA:1965:C:C5'	24:BA:1966:A:H3'	2.39	0.53
24:BA:1972:A:H2'	24:BA:1973:G:C8	2.43	0.53
24:BA:2045:C:O2'	24:BA:2046:G:H5'	2.08	0.53
24:BA:2065:C:C4	24:BA:2066:C:C4	2.96	0.53
24:BA:2218:G:C6	24:BA:2219:G:N7	2.76	0.53
24:BA:2246:G:H1'	24:BA:2426:A:H2	1.73	0.53
24:BA:2269:A:O2'	24:BA:2270:G:H5'	2.08	0.53
24:BA:2355:C:C5	24:BA:2356:C:C4	2.96	0.53
24:BA:2459:A:C6	24:BA:2493:U:O4	2.61	0.53
24:BA:247:G:H1	54:B7:8:LYS:HD2	1.72	0.53
3:AB:74:C:C4	24:BA:2555:U:N3	2.76	0.53
24:BA:2606:C:O2	24:BA:2607:G:C8	2.61	0.53
24:BA:2626:C:H2'	24:BA:2627:G:O4'	2.08	0.53
24:BA:270(L):U:C6	24:BA:270(L):U:OP2	2.61	0.53
24:BA:2838:G:O2'	24:BA:2839:G:H5'	2.08	0.53
24:BA:291:C:N4	24:BA:292:C:N4	2.56	0.53
24:BA:307:G:H2'	24:BA:309:G:C8	2.43	0.53
24:BA:531:C:O4'	24:BA:532:A:N3	2.41	0.53
24:BA:627:A:C1'	24:BA:637:A:C6	2.89	0.53
24:BA:720:C:C2	24:BA:721:C:C5	2.96	0.53
24:BA:734:A:C2'	24:BA:735:A:O5'	2.55	0.53
24:BA:760:G:C2	24:BA:761:A:H1'	2.43	0.53
24:BA:849:A:C4	24:BA:850:C:C6	2.96	0.53
24:BA:941:A:C2	24:BA:942:G:N3	2.76	0.53
24:BA:945:A:H3'	24:BA:946:G:H5''	1.90	0.53
24:BA:973:A:O2'	24:BA:974:G:C5'	2.53	0.53
25:BB:32:C:H2'	25:BB:33:G:H8	1.71	0.53
27:BD:65:ILE:HD12	27:BD:104:TYR:CB	2.38	0.53
27:BD:45:ASN:O	27:BD:46:GLN:HG3	2.08	0.53
27:BD:37:LEU:CD1	27:BD:62:TYR:O	2.56	0.53
24:BA:1818:U:O4	27:BD:67:PHE:CE1	2.61	0.53
27:BD:75:ILE:HD13	27:BD:99:ASP:CB	2.39	0.53
27:BD:5:LYS:CB	27:BD:82:ILE:HB	2.34	0.53
28:BE:27:LEU:O	28:BE:27:LEU:HG	2.08	0.53
28:BE:46:ALA:HB2	28:BE:85:ASN:ND2	2.21	0.53
29:BF:157:VAL:HG23	29:BF:157:VAL:O	2.08	0.53
29:BF:182:ASN:O	29:BF:182:ASN:OD1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:96:ARG:O	30:BG:100:TRP:HE3	1.89	0.53
30:BG:107:LEU:HD23	30:BG:177:GLY:HA3	1.91	0.53
30:BG:135:LEU:CD2	30:BG:137:GLU:H	2.21	0.53
31:BH:148:ILE:HG23	31:BH:162:ILE:HD13	1.89	0.53
24:BA:1080:C:H4'	33:BL:125:ARG:C	2.27	0.53
33:BL:78:ILE:HG12	33:BL:127:ILE:HG23	1.89	0.53
33:BL:23:VAL:CG1	33:BL:27:LEU:HD12	2.07	0.53
34:BM:100:GLU:HB3	34:BM:104:LYS:HE2	1.89	0.53
35:BN:86:ILE:HG12	35:BN:90:GLN:O	2.07	0.53
36:BO:111:ARG:HH21	36:BO:129:ALA:HB2	1.73	0.53
37:BP:22:LYS:CD	37:BP:23:GLY:N	2.70	0.53
35:BN:77:ILE:HG12	40:BS:75:ILE:HD11	1.91	0.53
24:BA:581:C:H5''	41:BT:32:PHE:CD1	2.43	0.53
24:BA:2018:G:C1'	41:BT:34:LYS:HZ1	2.20	0.53
42:BU:4:ILE:O	42:BU:40:LEU:O	2.26	0.53
42:BU:7:THR:O	42:BU:11:GLN:NE2	2.41	0.53
43:BV:64:MET:CB	43:BV:109:GLU:HG3	2.38	0.53
43:BV:89:ALA:O	43:BV:90:ARG:C	2.46	0.53
45:BX:37:VAL:HG13	45:BX:39:VAL:HG23	1.89	0.53
45:BX:65:ALA:CB	45:BX:66:PRO:CD	2.85	0.53
46:BY:11:GLU:O	46:BY:15:PRO:HG3	2.07	0.53
47:BZ:32:ARG:HB2	47:BZ:32:ARG:HH11	1.70	0.53
24:BA:2364:C:H1'	47:BZ:36:ILE:HD11	1.89	0.53
47:BZ:78:TYR:CD1	47:BZ:78:TYR:N	2.75	0.53
32:BK:77:LEU:CD1	32:BK:140:LEU:HB3	2.32	0.53
3:AD:47:U:H3	3:AD:49:C:H5''	1.72	0.53
24:BA:1511:A:C3'	24:BA:1512:G:H5''	2.37	0.53
39:BR:59:LYS:HE2	39:BR:59:LYS:H	1.73	0.53
24:BA:1040:C:OP2	24:BA:1040:C:C6	2.61	0.53
1:AA:1133:G:C6	1:AA:1134:G:N7	2.77	0.53
1:AA:1256:A:N6	1:AA:1278:U:O2'	2.41	0.53
1:AA:1363:A:H5''	1:AA:1364:U:P	2.47	0.53
1:AA:229:U:C2	1:AA:230:G:C8	2.96	0.53
1:AA:586:C:OP1	19:AT:34:LYS:HE3	2.08	0.53
1:AA:673:G:H2'	1:AA:674:G:N7	2.23	0.53
1:AA:735:C:C4'	20:AU:75:ILE:HD11	2.38	0.53
1:AA:819:A:C5'	1:AA:820:U:OP2	2.54	0.53
1:AA:568:G:N2	1:AA:883:C:H1'	2.22	0.53
1:AA:939:G:H4'	1:AA:1375:A:O2'	2.08	0.53
3:AC:7:A:HO2'	3:AC:8:U:P	2.30	0.53
3:AD:76:A:C5	24:BA:2432:A:C4	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:144:ARG:HD3	4:AE:148:TYR:OH	2.09	0.53
4:AE:149:LEU:HD23	4:AE:153:ARG:HG2	1.89	0.53
4:AE:217:ARG:HG3	4:AE:217:ARG:NH1	2.22	0.53
4:AE:234:PRO:HB2	4:AE:238:LEU:HD22	1.89	0.53
4:AE:55:PHE:O	4:AE:58:ILE:HB	2.07	0.53
5:AF:164:ARG:CG	5:AF:165:THR:N	2.71	0.53
5:AF:66:VAL:HG12	5:AF:66:VAL:O	2.08	0.53
6:AG:132:ARG:CG	6:AG:132:ARG:NH1	2.63	0.53
6:AG:63:LYS:CA	6:AG:66:ARG:HD2	2.37	0.53
7:AH:80:ILE:HG22	10:AK:104:ARG:NH2	2.24	0.53
8:AI:12:PRO:HG2	8:AI:13:ASN:H	1.74	0.53
9:AJ:127:ALA:O	9:AJ:128:ALA:C	2.46	0.53
9:AJ:37:ASN:OD1	9:AJ:38:LEU:N	2.24	0.53
1:AA:932:C:OP1	9:AJ:3:ARG:O	2.27	0.53
9:AJ:78:ARG:HE	9:AJ:80:VAL:CG2	2.21	0.53
13:AN:11:LYS:HB3	13:AN:13:GLN:CD	2.28	0.53
17:AR:32:LEU:HD12	17:AR:59:MET:HG2	1.89	0.53
1:AA:393:A:OP2	18:AS:12:LYS:HE3	2.08	0.53
18:AS:27:LYS:O	18:AS:30:GLY:N	2.36	0.53
19:AT:88:TYR:HA	19:AT:91:ARG:NH2	2.23	0.53
20:AU:87:ARG:O	20:AU:88:LYS:OXT	2.26	0.53
48:B1:20:VAL:HG23	48:B1:55:LEU:CD2	2.38	0.53
52:B5:36:LEU:O	52:B5:51:GLU:CB	2.36	0.53
54:B7:13:ARG:HG3	54:B7:13:ARG:HH11	1.73	0.53
24:BA:1183:G:OP2	49:B2:30:ARG:NH1	2.41	0.53
24:BA:1242:A:H3'	24:BA:1243:G:H8	1.72	0.53
24:BA:1265:A:H1'	24:BA:1267:U:O4	2.09	0.53
24:BA:1492:G:N2	24:BA:1499:C:C5	2.75	0.53
24:BA:1521:G:H3'	24:BA:1522:G:H5'	1.90	0.53
24:BA:1534:G:N2	24:BA:1538:G:C8	2.77	0.53
24:BA:1742:C:C3'	24:BA:1743:G:C5'	2.86	0.53
24:BA:1794:U:H2'	24:BA:1795:C:H6	1.73	0.53
24:BA:1861:G:O2'	24:BA:1862:G:H5'	2.07	0.53
24:BA:1909:C:O2'	24:BA:1910:G:H5'	2.08	0.53
24:BA:2093:G:H1'	24:BA:2198:A:N1	2.23	0.53
24:BA:2246:G:N2	24:BA:2247:A:C6	2.77	0.53
24:BA:860:U:H6	24:BA:2267:A:H4'	1.70	0.53
24:BA:2306:C:C5	24:BA:2311:A:N1	2.76	0.53
24:BA:2346:A:H4'	24:BA:2383:G:C5'	2.35	0.53
24:BA:2425:A:H2'	24:BA:2425:A:N3	2.23	0.53
24:BA:2496:C:C6	24:BA:2497:A:H2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1129:A:N3	24:BA:2516:G:H1'	2.23	0.53
24:BA:2585:U:C2'	24:BA:2585:U:O2	2.57	0.53
24:BA:2703:C:H2'	24:BA:2704:C:O5'	2.08	0.53
24:BA:2645:G:C4'	24:BA:2732:G:O2'	2.40	0.53
24:BA:270(W):G:N2	24:BA:273:G:H4'	2.23	0.53
24:BA:2749:A:N1	24:BA:2750:A:N6	2.45	0.53
24:BA:2825:C:H42	24:BA:2826:A:N6	2.05	0.53
24:BA:2864:G:O2'	24:BA:2865:U:H5'	2.07	0.53
24:BA:2875:C:O2'	40:BS:4:GLY:HA3	2.08	0.53
24:BA:309:G:O6	24:BA:1210:A:O2'	2.22	0.53
24:BA:223:A:N6	24:BA:408:G:O4'	2.42	0.53
24:BA:483:A:N6	24:BA:497:A:C2	2.76	0.53
24:BA:539:G:H2'	24:BA:540:G:C8	2.44	0.53
24:BA:586:A:OP1	29:BF:89:VAL:HG23	2.08	0.53
24:BA:746:A:C8	24:BA:2611:U:O2'	2.58	0.53
24:BA:796:C:H6	24:BA:796:C:O5'	1.91	0.53
24:BA:805:G:O6	24:BA:2068:U:OP1	2.26	0.53
24:BA:875:G:C6	24:BA:876:C:N4	2.76	0.53
24:BA:876:C:C6	24:BA:876:C:O5'	2.60	0.53
24:BA:957:A:C2	24:BA:2459:A:C5'	2.91	0.53
24:BA:968:G:H2'	24:BA:969:U:C6	2.43	0.53
24:BA:975:G:N7	24:BA:1186:G:N2	2.45	0.53
24:BA:97:C:O5'	24:BA:97:C:H6	1.90	0.53
25:BB:15:A:H5'	25:BB:16:G:O5'	2.08	0.53
25:BB:37:C:N4	25:BB:44:G:H1	2.06	0.53
25:BB:58:A:H62	25:BB:59:A:N6	2.06	0.53
27:BD:57:GLY:O	27:BD:217:ARG:HB2	2.08	0.53
27:BD:234:GLY:CA	27:BD:241:PRO:CG	2.86	0.53
28:BE:51:PHE:HE1	28:BE:76:ARG:N	2.06	0.53
28:BE:85:ASN:ND2	28:BE:85:ASN:N	2.56	0.53
29:BF:37:VAL:O	29:BF:41:LEU:HD23	2.08	0.53
29:BF:46:ARG:HG2	29:BF:46:ARG:NH2	2.23	0.53
29:BF:54:ARG:C	29:BF:56:GLU:H	2.11	0.53
29:BF:71:GLY:C	29:BF:73:ALA:H	2.11	0.53
29:BF:74:ARG:CZ	29:BF:75:HIS:HA	2.38	0.53
30:BG:125:PHE:CD1	30:BG:131:TYR:N	2.76	0.53
30:BG:75:LYS:CB	30:BG:84:LYS:HB2	2.39	0.53
31:BH:149:ARG:O	31:BH:153:LYS:CB	2.57	0.53
31:BH:35:VAL:CG2	31:BH:75:ALA:HB2	2.38	0.53
34:BM:46:VAL:O	34:BM:47:ALA:HB3	2.09	0.53
35:BN:8:LEU:CD2	35:BN:9:GLU:H	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:27:HIS:CE1	42:BU:82:ARG:O	2.60	0.53
36:BO:57:THR:O	36:BO:58:THR:OG1	2.26	0.53
36:BO:92:GLU:HA	36:BO:92:GLU:OE2	2.09	0.53
37:BP:116:GLU:O	37:BP:117:ALA:C	2.45	0.53
37:BP:43:THR:HG1	37:BP:45:GLN:HB2	1.73	0.53
37:BP:77:LYS:O	37:BP:78:PRO:O	2.26	0.53
38:BQ:113:LEU:CD1	38:BQ:114:VAL:N	2.70	0.53
39:BR:75:GLU:HA	39:BR:78:LEU:CB	2.38	0.53
39:BR:77:ALA:O	39:BR:78:LEU:C	2.47	0.53
40:BS:17:THR:HG21	40:BS:20:PRO:HA	1.90	0.53
24:BA:2876:G:P	40:BS:2:ASN:CB	2.96	0.53
40:BS:68:TYR:CD1	40:BS:68:TYR:C	2.81	0.53
41:BT:110:VAL:O	41:BT:111:GLU:C	2.47	0.53
41:BT:111:GLU:CG	41:BT:112:ARG:H	2.20	0.53
41:BT:8:VAL:HA	41:BT:11:ARG:NE	2.23	0.53
41:BT:74:LEU:O	41:BT:75:ASN:O	2.27	0.53
42:BU:70:ILE:HG23	42:BU:90:PRO:CA	2.37	0.53
43:BV:11:ARG:HH21	43:BV:11:ARG:CB	2.20	0.53
43:BV:21:VAL:HG11	43:BV:75:TYR:HA	1.90	0.53
43:BV:43:GLY:O	43:BV:44:ALA:C	2.45	0.53
44:BW:85:PRO:C	44:BW:87:GLN:HE21	2.11	0.53
45:BX:53:PRO:O	45:BX:55:TYR:N	2.40	0.53
46:BY:24:LEU:HD12	46:BY:41:LEU:CD1	2.38	0.53
47:BZ:28:GLY:O	47:BZ:29:GLN:C	2.46	0.53
24:BA:2157:G:OP2	24:BA:2157:G:N3	2.41	0.53
26:BC:93:TYR:HD1	26:BC:107:TRP:HZ2	1.55	0.53
26:BC:100:ILE:HD13	26:BC:123:VAL:N	2.23	0.53
26:BC:22:ILE:CD1	26:BC:190:ARG:NH1	2.71	0.53
26:BC:223:ARG:HG2	26:BC:224:ILE:N	2.22	0.53
26:BC:26:ALA:O	26:BC:29:VAL:HG12	2.08	0.53
26:BC:53:ARG:C	26:BC:55:ASP:H	2.12	0.53
3:AD:28:G:N3	3:AD:29:G:C8	2.76	0.53
1:AA:491:G:N2	1:AA:492:G:H1'	2.23	0.53
32:BK:85:GLU:CD	32:BK:85:GLU:N	2.61	0.53
1:AA:1003:G:OP2	1:AA:1004:A:N3	2.41	0.53
1:AA:1094:G:C3'	1:AA:1108:G:H22	2.20	0.53
1:AA:1103:C:HO2'	4:AE:111:ARG:HD2	1.71	0.53
1:AA:1138:G:N3	1:AA:1138:G:H3'	2.23	0.53
1:AA:1300:G:O2'	1:AA:1301:U:P	2.66	0.53
1:AA:1438:G:C6	1:AA:1439:C:C5	2.96	0.53
1:AA:1449:C:H2'	1:AA:1450:U:O5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.73	0.53
1:AA:1517:G:N3	1:AA:1517:G:H2'	2.23	0.53
1:AA:377:G:C2	1:AA:378:G:N7	2.76	0.53
1:AA:425:G:N2	1:AA:426:G:C1'	2.70	0.53
1:AA:568:G:C4	1:AA:569:C:C5	2.97	0.53
1:AA:646:U:H2'	1:AA:647:C:H6	1.73	0.53
1:AA:687:A:C4	1:AA:704:A:N6	2.77	0.53
1:AA:728:A:N1	1:AA:729:A:C4	2.76	0.53
1:AA:818:G:C2'	1:AA:819:A:OP1	2.56	0.53
1:AA:822:C:C2	1:AA:823:G:C8	2.96	0.53
1:AA:931:C:H2'	1:AA:932:C:H5	1.72	0.53
3:AC:21:A:N1	3:AC:48:C:N3	2.55	0.53
5:AF:142:MET:SD	5:AF:146:ALA:HB3	2.48	0.53
5:AF:142:MET:HB3	5:AF:149:ALA:HB2	1.90	0.53
6:AG:107:ARG:CD	6:AG:174:LEU:HD11	2.37	0.53
1:AA:426:G:O3'	6:AG:41:GLY:O	2.26	0.53
7:AH:122:GLU:CB	7:AH:126:ARG:HG3	2.39	0.53
7:AH:105:VAL:HG21	7:AH:132:ALA:HB2	1.89	0.53
7:AH:76:ILE:HD12	7:AH:142:LEU:HD12	1.89	0.53
7:AH:23:GLY:HA3	7:AH:25:ARG:HH12	1.71	0.53
7:AH:59:GLY:O	7:AH:62:ALA:CB	2.56	0.53
8:AI:20:ALA:O	8:AI:24:GLU:HG3	2.08	0.53
8:AI:77:ARG:N	8:AI:80:ARG:CZ	2.71	0.53
8:AI:79:LEU:C	8:AI:81:ILE:N	2.60	0.53
9:AJ:88:PRO:HG2	9:AJ:152:ALA:CB	2.37	0.53
10:AK:100:ILE:HB	10:AK:125:ARG:HH21	1.71	0.53
10:AK:82:HIS:C	10:AK:137:VAL:HG13	2.28	0.53
11:AL:70:LYS:H	11:AL:70:LYS:HD2	1.72	0.53
1:AA:1202:G:N7	12:AM:53:PRO:HB2	2.22	0.53
13:AN:73:MET:CG	13:AN:103:LEU:HD13	2.37	0.53
13:AN:128:ALA:O	13:AN:129:SER:C	2.47	0.53
1:AA:1227:A:N9	15:AP:117:VAL:HG21	2.23	0.53
15:AP:92:HIS:CD2	15:AP:98:VAL:HG11	2.43	0.53
17:AR:31:LEU:CD1	17:AR:31:LEU:N	2.71	0.53
1:AA:669:U:O4'	17:AR:46:HIS:HE1	1.91	0.53
19:AT:35:VAL:HA	19:AT:36:ILE:HD13	1.90	0.53
20:AU:74:ARG:CG	20:AU:74:ARG:HH11	2.17	0.53
22:AW:23:ARG:O	22:AW:24:LEU:C	2.47	0.53
1:AA:1286:A:OP1	23:AX:25:LYS:HG3	2.08	0.53
48:B1:27:LEU:N	48:B1:27:LEU:HD12	2.24	0.53
49:B2:3:ARG:HH12	49:B2:59:VAL:CG2	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:44:THR:HG22	50:B3:45:GLY:H	1.72	0.53
53:B6:25:PRO:HD3	53:B6:28:ARG:NH2	2.23	0.53
53:B6:35:ARG:NH1	53:B6:35:ARG:HB2	2.22	0.53
54:B7:39:LYS:H	54:B7:39:LYS:HZ3	1.57	0.53
54:B7:30:ARG:HH21	54:B7:43:GLN:N	2.05	0.53
24:BA:1083:U:O2	24:BA:1083:U:C2'	2.56	0.53
24:BA:443:A:C4'	24:BA:1201:C:H5'	2.36	0.53
24:BA:1223:C:N1	24:BA:1227:A:N1	2.57	0.53
24:BA:1427:A:O2'	24:BA:1428:C:OP2	2.27	0.53
24:BA:141(A):C:O2'	24:BA:142:G:H5'	2.07	0.53
24:BA:1492:G:N3	24:BA:1493:C:C4	2.77	0.53
24:BA:1529:A:H8	24:BA:1530:G:N9	2.07	0.53
24:BA:1605:C:H3'	24:BA:1606:G:C8	2.44	0.53
24:BA:1607:C:C2'	24:BA:1607:C:O2	2.56	0.53
24:BA:1607:C:O2'	24:BA:1608:A:OP2	2.25	0.53
24:BA:1650:G:O2'	24:BA:1651:G:O5'	2.26	0.53
24:BA:1671:U:O2'	28:BE:129:HIS:HE1	1.92	0.53
24:BA:1847:A:C2	24:BA:1851:U:O4	2.61	0.53
24:BA:1905:C:H5'	24:BA:1928:A:N6	2.23	0.53
24:BA:1784:A:C8	24:BA:1981:A:C5	2.96	0.53
24:BA:2097:C:C2'	24:BA:2098:U:C5'	2.86	0.53
24:BA:2224:G:O2'	24:BA:2226:C:C5	2.57	0.53
24:BA:2303:G:C6	24:BA:2304:G:N7	2.76	0.53
24:BA:2655:G:H2'	24:BA:2656:U:OP2	2.09	0.53
24:BA:2686:G:O2'	24:BA:2687:U:C5'	2.56	0.53
24:BA:2714:G:C5	24:BA:2715:C:C5	2.96	0.53
24:BA:2720:U:C3'	24:BA:2721:A:H8	2.21	0.53
24:BA:2732:G:OP2	24:BA:2732:G:H8	1.92	0.53
24:BA:2809:A:C1'	24:BA:2811:G:N7	2.72	0.53
24:BA:2817:G:C2	24:BA:2830:G:N3	2.77	0.53
24:BA:2892:A:H2'	24:BA:2893:G:H1'	1.91	0.53
24:BA:322:A:O4'	24:BA:341:G:H5'	2.08	0.53
24:BA:389:G:H2'	24:BA:389:G:N3	2.21	0.53
24:BA:500:G:H2'	24:BA:501:A:H3'	1.89	0.53
24:BA:511:U:H5	24:BA:512:G:C2	2.26	0.53
24:BA:638:G:C2'	24:BA:639:U:H5'	2.37	0.53
24:BA:786:C:C2'	24:BA:787:U:C5'	2.87	0.53
27:BD:134:ARG:CA	27:BD:168:ARG:HH22	2.21	0.53
27:BD:209:ALA:C	27:BD:213:ARG:HG2	2.28	0.53
27:BD:254:THR:C	27:BD:255:LYS:HG3	2.29	0.53
27:BD:27:THR:HG21	27:BD:82:ILE:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:100:GLU:O	28:BE:172:VAL:CG1	2.52	0.53
28:BE:85:ASN:N	28:BE:85:ASN:HD22	2.04	0.53
28:BE:92:THR:HG23	28:BE:96:PHE:N	2.22	0.53
29:BF:11:VAL:HG22	29:BF:126:VAL:HG12	1.89	0.53
29:BF:155:LEU:HA	29:BF:174:VAL:CG2	2.38	0.53
29:BF:78:ILE:CD1	29:BF:79:GLY:H	2.20	0.53
32:BK:11:ASN:O	32:BK:13:GLY:N	2.41	0.53
34:BM:13:TRP:O	34:BM:14:VAL:CG2	2.56	0.53
35:BN:70:LYS:HZ1	35:BN:102:VAL:HG13	1.73	0.53
35:BN:39:ILE:C	35:BN:59:LYS:HZ3	2.03	0.53
35:BN:6:THR:HG23	35:BN:21:CYS:HB3	1.90	0.53
36:BO:16:ARG:HG3	36:BO:19:VAL:CG2	2.38	0.53
24:BA:1249:U:O4	36:BO:21:ARG:NH2	2.42	0.53
36:BO:76:LYS:HG3	36:BO:77:ARG:N	2.22	0.53
37:BP:65:PHE:O	37:BP:66:ILE:CG1	2.54	0.53
38:BQ:53:HIS:ND1	38:BQ:56:LYS:HE2	2.24	0.53
38:BQ:67:LEU:HD21	38:BQ:72:ASP:H	1.73	0.53
39:BR:62:LYS:O	39:BR:65:VAL:HG13	2.07	0.53
40:BS:33:LYS:HG3	40:BS:45:PHE:CZ	2.44	0.53
40:BS:33:LYS:HG3	40:BS:45:PHE:CE2	2.43	0.53
42:BU:23:GLU:CA	42:BU:93:GLU:HB3	2.37	0.53
42:BU:40:LEU:HB3	42:BU:51:VAL:HG13	1.91	0.53
42:BU:57:VAL:HG12	42:BU:58:VAL:HG23	1.89	0.53
42:BU:68:LYS:HG2	42:BU:95:LEU:CD2	2.31	0.53
43:BV:42:ARG:HG3	43:BV:43:GLY:H	1.71	0.53
44:BW:20:GLY:O	44:BW:25:LYS:O	2.27	0.53
46:BY:139:VAL:HG12	46:BY:140:ASP:N	2.23	0.53
46:BY:153:SER:N	46:BY:168:GLU:HB2	2.24	0.53
47:BZ:32:ARG:HB2	47:BZ:32:ARG:CZ	2.38	0.53
32:BK:70:LYS:HZ2	32:BK:70:LYS:HA	1.72	0.53
32:BK:93:THR:HG23	32:BK:95:LYS:CB	2.37	0.53
3:AD:21:A:N6	3:AD:48:C:C5	2.76	0.53
3:AD:9:A:N3	3:AD:46:G:C1'	2.72	0.53
26:BC:39:GLU:HB3	26:BC:178:ALA:HB2	1.90	0.53
26:BC:87:GLU:CG	26:BC:94:VAL:HG21	2.24	0.53
24:BA:1416:G:O2'	24:BA:1417:C:C6	2.57	0.53
24:BA:274:G:C3'	24:BA:274:G:N3	2.70	0.53
26:BC:70:LYS:O	26:BC:71:GLN:HB3	2.07	0.53
1:AA:998(A):C:O2	1:AA:998(A):C:H2'	2.08	0.53
1:AA:1068:G:C6	1:AA:1108:G:N3	2.77	0.53
1:AA:1124:G:OP1	12:AM:35:SER:O	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1159:U:O4	1:AA:1182:G:N3	2.41	0.53
1:AA:119:A:O2'	1:AA:120:A:OP2	2.13	0.53
1:AA:67:C:C4'	1:AA:172:A:H1'	2.39	0.53
1:AA:251:G:C2	1:AA:266:G:O6	2.61	0.53
1:AA:258:G:C6	1:AA:259:G:C6	2.97	0.53
1:AA:328:C:O2	1:AA:328:C:H3'	2.08	0.53
1:AA:328:C:H4'	1:AA:329:A:O5'	2.09	0.53
1:AA:433:C:C4	1:AA:434:U:O4	2.62	0.53
1:AA:601:C:H2'	1:AA:602:A:O4'	2.07	0.53
1:AA:601:C:C2	1:AA:638:G:C2	2.96	0.53
1:AA:660:G:H2'	1:AA:661:G:H8	1.72	0.53
1:AA:667:G:H5''	17:AR:51:HIS:CE1	2.43	0.53
1:AA:739:C:O2'	1:AA:740:U:H5'	2.09	0.53
1:AA:832:C:C2	1:AA:855:G:N1	2.77	0.53
1:AA:868:C:H3'	1:AA:869:G:H8	1.73	0.53
1:AA:876:G:H1'	10:AK:11:THR:HG21	1.90	0.53
1:AA:758:G:H4'	1:AA:880:C:H4'	1.90	0.53
3:AB:50:U:H2'	3:AB:51:U:H6	1.73	0.53
3:AC:57:G:H2'	3:AC:58:A:H5''	1.91	0.53
4:AE:124:SER:HB3	4:AE:126:GLU:CD	2.28	0.53
4:AE:132:LYS:HZ3	4:AE:132:LYS:N	2.07	0.53
4:AE:12:GLU:OE1	4:AE:209:ARG:NH2	2.40	0.53
4:AE:219:VAL:HA	4:AE:222:ILE:HD11	1.90	0.53
5:AF:112:SER:OG	5:AF:115:LEU:HD12	2.08	0.53
5:AF:193:TYR:CD2	5:AF:193:TYR:N	2.75	0.53
6:AG:107:ARG:CA	6:AG:107:ARG:HH11	2.07	0.53
6:AG:129:ASN:ND2	6:AG:144:ASP:OD1	2.41	0.53
7:AH:69:VAL:O	7:AH:70:PRO:C	2.47	0.53
9:AJ:108:ALA:HA	9:AJ:111:ARG:HG3	1.90	0.53
7:AH:78:HIS:HB3	10:AK:104:ARG:HB3	1.90	0.53
1:AA:539:A:OP1	14:AO:114:LYS:CE	2.56	0.53
14:AO:32:PHE:HB2	14:AO:84:LEU:CD1	2.36	0.53
1:AA:519:C:H5'	14:AO:51:ALA:HB2	1.90	0.53
16:AQ:39:LEU:HB2	16:AQ:44:LEU:HD13	1.89	0.53
17:AR:17:ARG:NH1	17:AR:77:ARG:CD	2.70	0.53
17:AR:64:ARG:HG2	17:AR:65:ARG:N	2.22	0.53
19:AT:3:LYS:HD3	19:AT:60:ILE:HD11	1.90	0.53
19:AT:66:SER:HB3	19:AT:69:LYS:NZ	2.23	0.53
20:AU:58:LEU:O	20:AU:59:SER:O	2.27	0.53
48:B1:13:PRO:O	48:B1:17:GLU:HG3	2.08	0.53
48:B1:21:ARG:O	48:B1:24:LYS:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:5:ILE:O	50:B3:6:HIS:CB	2.55	0.53
54:B7:16:ILE:HG22	54:B7:57:ARG:HH22	1.72	0.53
24:BA:1021:A:H2	24:BA:1122:G:H4'	1.73	0.53
24:BA:120:U:C1'	24:BA:149:A:N3	2.71	0.53
24:BA:1287:A:H2'	24:BA:1287:A:N3	2.24	0.53
24:BA:1309:G:C6	24:BA:1310:G:N7	2.76	0.53
24:BA:1422:G:C2	24:BA:1423:G:C8	2.96	0.53
24:BA:1660:C:C4	24:BA:2001:A:N6	2.76	0.53
24:BA:1703:G:H2'	24:BA:1704:G:C5'	2.38	0.53
24:BA:1771:C:O2'	24:BA:1772:G:H5'	2.07	0.53
24:BA:1786:A:H4'	24:BA:1938:A:N6	2.10	0.53
24:BA:1803:A:C8	24:BA:1803:A:OP2	2.60	0.53
24:BA:1820:U:C2'	27:BD:202:LYS:CG	2.83	0.53
24:BA:1826:G:H2'	24:BA:1827:C:C5'	2.36	0.53
24:BA:195:A:OP2	24:BA:196:A:O3'	2.27	0.53
24:BA:2055:C:O2	24:BA:2055:C:H2'	2.08	0.53
24:BA:218:A:C2	24:BA:235:U:H4'	2.43	0.53
24:BA:2206:C:C2	24:BA:2207:C:C6	2.96	0.53
24:BA:2210:G:C6	27:BD:150:LYS:CA	2.82	0.53
24:BA:2215:G:H2'	24:BA:2216:G:C8	2.44	0.53
24:BA:2238:G:O2'	24:BA:2239:G:C5'	2.55	0.53
24:BA:2309:A:N3	24:BA:2309:A:C2'	2.72	0.53
24:BA:2263:C:H4'	24:BA:2329:G:H4'	1.90	0.53
24:BA:2393:A:O3'	36:BO:57:THR:HA	2.08	0.53
24:BA:2615:U:C2	24:BA:2616:C:C5	2.97	0.53
24:BA:2686:G:O2'	24:BA:2687:U:H5'	2.07	0.53
24:BA:2792:G:N1	24:BA:2793:G:C5	2.77	0.53
24:BA:2789:C:C2'	24:BA:2893:G:N2	2.70	0.53
24:BA:290:G:C8	24:BA:290:G:C3'	2.91	0.53
24:BA:289:A:C2'	24:BA:351:G:N1	2.63	0.53
24:BA:412:A:C8	24:BA:2412:A:N3	2.76	0.53
24:BA:52:A:H8	24:BA:52:A:O5'	1.92	0.53
24:BA:623:G:H2'	24:BA:624:C:C5'	2.36	0.53
24:BA:662:G:H5'	36:BO:17:LYS:N	2.20	0.53
24:BA:67:U:O5'	24:BA:67:U:C6	2.61	0.53
24:BA:811:U:O2'	24:BA:812:C:OP1	2.24	0.53
24:BA:946:G:H2'	24:BA:947:G:C8	2.44	0.53
24:BA:956:G:C8	24:BA:956:G:H3'	2.43	0.53
24:BA:991:C:O2'	24:BA:992:C:H5'	2.08	0.53
25:BB:50:G:OP1	39:BR:63:THR:OG1	2.24	0.53
25:BB:56:G:H4'	25:BB:57:A:H5''	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1790:C:P	27:BD:220:HIS:HB3	2.48	0.53
27:BD:5:LYS:HD3	27:BD:31:LYS:NZ	2.23	0.53
24:BA:1656:C:H5'	28:BE:136:ARG:NH1	2.23	0.53
24:BA:2051:A:C3'	28:BE:141:ILE:HD11	2.38	0.53
28:BE:176:ILE:CG2	28:BE:181:LEU:O	2.56	0.53
29:BF:201:VAL:CG1	29:BF:205:ARG:NH2	2.72	0.53
29:BF:77:ASP:CG	29:BF:80:ALA:HB2	2.29	0.53
30:BG:120:LEU:HA	30:BG:181:ARG:HG2	1.89	0.53
31:BH:117:PRO:HB3	31:BH:123:PHE:CE2	2.43	0.53
31:BH:6:ARG:N	31:BH:7:LEU:HD23	2.22	0.53
35:BN:31:LYS:HB3	35:BN:32:TYR:CE2	2.43	0.53
35:BN:97:ARG:HE	35:BN:98:VAL:C	2.12	0.53
24:BA:623:G:P	36:BO:105:LEU:HD11	2.48	0.53
37:BP:114:ALA:O	37:BP:115:MET:C	2.45	0.53
37:BP:81:VAL:CG1	37:BP:82:ARG:N	2.54	0.53
38:BQ:26:LYS:HE2	38:BQ:70:LEU:HB3	1.90	0.53
39:BR:73:LEU:N	39:BR:73:LEU:HD13	2.17	0.53
39:BR:74:ALA:HB1	39:BR:108:GLY:HA2	1.79	0.53
40:BS:105:LEU:HG	40:BS:106:SER:N	2.23	0.53
40:BS:20:PRO:HB3	40:BS:22:PHE:HE1	1.73	0.53
40:BS:93:ARG:HG2	40:BS:95:ARG:HH11	1.74	0.53
41:BT:45:TYR:C	41:BT:47:TYR:N	2.60	0.53
41:BT:56:ASP:O	41:BT:60:LEU:HG	2.09	0.53
41:BT:68:ALA:O	41:BT:72:HIS:ND1	2.38	0.53
41:BT:88:ILE:CB	42:BU:52:VAL:HG13	2.37	0.53
43:BV:76:VAL:CG2	43:BV:102:HIS:O	2.56	0.53
43:BV:40:ASN:O	43:BV:41:LYS:CB	2.56	0.53
44:BW:31:HIS:CE1	44:BW:33:LYS:HB3	2.43	0.53
44:BW:85:PRO:HG2	44:BW:87:GLN:CG	2.31	0.53
44:BW:9:LEU:H	44:BW:9:LEU:HD12	1.72	0.53
46:BY:6:LYS:CG	46:BY:7:ALA:H	2.20	0.53
47:BZ:59:LEU:HD21	47:BZ:79:VAL:HG21	1.90	0.53
32:BK:76:THR:HG22	32:BK:141:LYS:CD	2.38	0.53
32:BK:59:ALA:CA	32:BK:62:LYS:HD2	2.32	0.53
32:BK:78:THR:CA	32:BK:79:ILE:HD12	2.37	0.53
32:BK:93:THR:HG22	32:BK:96:ASP:OD2	2.06	0.53
3:AD:56:C:C4	24:BA:2169:A:C4	2.97	0.53
26:BC:185:LEU:N	26:BC:185:LEU:HD23	2.23	0.53
24:BA:181:A:C2	24:BA:434:U:O2'	2.62	0.53
32:BK:133:HIS:HB3	32:BK:136:VAL:HG23	1.91	0.53
2:A1:35:U:H3'	2:A1:35:U:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:37:U:O5'	2:A1:37:U:C6	2.61	0.53
1:AA:1041:A:C2	1:AA:1042:G:C8	2.96	0.53
1:AA:1055:A:N7	1:AA:1206:G:C2	2.76	0.53
1:AA:105:G:H2'	1:AA:106:C:H6	1.69	0.53
1:AA:1068:G:N1	1:AA:1108:G:H1'	2.24	0.53
1:AA:1157:A:H5''	1:AA:1158:C:OP1	2.09	0.53
1:AA:1297:C:HO2'	1:AA:1298:C:H6	1.56	0.53
1:AA:130:A:C6	1:AA:264:U:H1'	2.43	0.53
1:AA:1321:C:N3	21:AV:37:ARG:NH2	2.56	0.53
1:AA:1422:G:C2	1:AA:1423:G:C5	2.97	0.53
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.43	0.53
1:AA:292:G:C2	1:AA:309:G:C2	2.97	0.53
1:AA:399:G:C4	1:AA:400:C:C5	2.96	0.53
1:AA:46:G:C2	1:AA:396:G:C6	2.96	0.53
1:AA:587:G:C2	1:AA:755:G:C6	2.96	0.53
1:AA:81:G:C6	1:AA:82:U:O4	2.62	0.53
1:AA:875:C:O2'	1:AA:876:G:O5'	2.18	0.53
1:AA:585:G:O2'	1:AA:879:C:H5''	2.08	0.53
1:AA:992:U:H4'	1:AA:993:G:C5'	2.39	0.53
1:AA:994:A:N3	16:AQ:5:ALA:HA	2.22	0.53
4:AE:82:ARG:HA	4:AE:92:TYR:OH	2.08	0.53
5:AF:11:ARG:HH12	5:AF:180:ALA:N	2.05	0.53
5:AF:126:ARG:O	5:AF:127:ARG:CB	2.56	0.53
5:AF:151:VAL:HG13	5:AF:200:ALA:HB2	1.90	0.53
5:AF:182:ILE:HG22	5:AF:183:ASP:N	2.23	0.53
6:AG:106:TYR:CD2	6:AG:114:ARG:N	2.77	0.53
6:AG:128:VAL:HG21	6:AG:133:VAL:CG2	2.38	0.53
6:AG:179:GLU:O	6:AG:181:MET:N	2.33	0.53
7:AH:150:ARG:HD3	7:AH:150:ARG:C	2.29	0.53
7:AH:50:GLU:HB2	7:AH:53:LEU:CD2	2.38	0.53
7:AH:78:HIS:CD2	7:AH:78:HIS:N	2.72	0.53
8:AI:47:ARG:O	20:AU:78:LEU:HD22	2.08	0.53
10:AK:7:ALA:O	10:AK:10:LEU:N	2.41	0.53
10:AK:69:ARG:NH2	10:AK:75:ARG:O	2.41	0.53
11:AL:23:ASN:O	11:AL:59:PHE:N	2.41	0.53
11:AL:31:GLN:OE1	11:AL:31:GLN:N	2.41	0.53
1:AA:780:A:OP1	13:AN:122:LYS:HA	2.08	0.53
13:AN:48:ILE:HD12	13:AN:63:LEU:CD2	2.22	0.53
15:AP:16:ASP:C	15:AP:19:LEU:HG	2.28	0.53
17:AR:70:LEU:HD21	17:AR:81:LEU:HD13	1.90	0.53
1:AA:450:G:H5'	18:AS:43:LYS:HZ2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:4:LYS:O	19:AT:5:VAL:CG2	2.57	0.53
19:AT:60:ILE:HD11	19:AT:62:SER:HA	1.89	0.53
1:AA:277:C:OP1	19:AT:68:ARG:NH1	2.41	0.53
1:AA:235:C:OP1	19:AT:70:ARG:HG3	2.07	0.53
20:AU:75:ILE:O	20:AU:76:LEU:C	2.45	0.53
21:AV:79:THR:O	21:AV:79:THR:HG22	2.08	0.53
22:AW:72:LEU:HD13	22:AW:77:ALA:CA	2.38	0.53
23:AX:21:TYR:O	23:AX:22:ARG:HB2	2.08	0.53
48:B1:30:LEU:O	48:B1:33:GLN:HB2	2.09	0.53
3:AD:74:C:OP2	50:B3:30:GLU:OE1	2.27	0.53
50:B3:42:PHE:H	50:B3:58:ARG:HG3	1.74	0.53
51:B4:30:LEU:HD23	51:B4:39:MET:SD	2.47	0.53
52:B5:20:ASN:CG	52:B5:42:TRP:HD1	2.12	0.53
53:B6:17:GLY:N	53:B6:21:ARG:NH2	2.45	0.53
54:B7:26:LYS:CB	54:B7:44:LYS:HZ1	2.21	0.53
24:BA:2526:G:H1'	55:B8:35:ARG:HH12	1.74	0.53
24:BA:1057:A:H2'	24:BA:1058:G:C8	2.41	0.53
24:BA:999:U:O2	24:BA:1157:G:C2	2.62	0.53
24:BA:1291:C:H2'	24:BA:1292:U:O4'	2.09	0.53
24:BA:1433:U:O2	24:BA:1561:G:N2	2.42	0.53
24:BA:1539:G:O6	24:BA:1540:G:C6	2.62	0.53
24:BA:154:G:O2'	24:BA:155:C:H5'	2.07	0.53
24:BA:1676:A:N7	24:BA:1677:A:N7	2.56	0.53
24:BA:1759:A:H3'	24:BA:1759:A:OP2	2.08	0.53
24:BA:1869:G:N3	24:BA:1878:G:C6	2.77	0.53
24:BA:1899:G:H3'	24:BA:1899:G:C8	2.44	0.53
24:BA:1926:U:HO2'	24:BA:1927:A:H8	1.54	0.53
24:BA:1930:G:O2'	24:BA:1931:U:O5'	2.26	0.53
24:BA:1945:G:C4	24:BA:1946:U:C5	2.97	0.53
24:BA:201:C:C2'	24:BA:202:U:H5'	2.37	0.53
24:BA:2051:A:C2	24:BA:2614:A:C6	2.97	0.53
24:BA:2083:G:O2'	24:BA:2084:C:H5'	2.09	0.53
24:BA:2230:G:N2	24:BA:2231:C:C2	2.77	0.53
24:BA:2293:C:H2'	24:BA:2294:C:H6	1.73	0.53
24:BA:2285:C:O2	24:BA:2384:G:N2	2.41	0.53
24:BA:2412:A:H3'	24:BA:2413:G:H8	1.74	0.53
24:BA:2246:G:N9	24:BA:2426:A:C2	2.77	0.53
24:BA:243:U:H5'	54:B7:5:LYS:NZ	2.24	0.53
24:BA:2893:G:OP2	24:BA:2893:G:C8	2.61	0.53
24:BA:107:C:C4'	24:BA:293:U:H1'	2.32	0.53
24:BA:269:U:N3	24:BA:424:G:N1	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:616:A:C4'	24:BA:617:G:OP1	2.54	0.53
24:BA:624:C:OP2	36:BO:105:LEU:HD23	2.08	0.53
24:BA:641:C:H2'	24:BA:642:G:C4'	2.37	0.53
24:BA:672:C:H2'	24:BA:673:C:C5	2.44	0.53
24:BA:673:C:C4	24:BA:808:G:N2	2.77	0.53
24:BA:685:A:H1'	24:BA:688:U:O4	2.07	0.53
24:BA:70:G:H4'	24:BA:71:A:H5''	1.89	0.53
24:BA:858:U:C6	24:BA:859:G:N2	2.77	0.53
24:BA:889:C:H1'	24:BA:892:G:N7	2.23	0.53
24:BA:989:G:P	49:B2:10:LYS:HZ1	2.32	0.53
25:BB:32:C:C3'	25:BB:33:G:H8	2.21	0.53
27:BD:117:VAL:HG22	27:BD:129:ASN:OD1	2.08	0.53
27:BD:17:THR:C	27:BD:19:ALA:N	2.58	0.53
27:BD:40:THR:HG22	27:BD:41:GLY:O	2.09	0.53
28:BE:38:THR:HG22	28:BE:39:PRO:N	2.22	0.53
28:BE:51:PHE:C	28:BE:74:PRO:HB3	2.25	0.53
29:BF:118:ALA:CA	29:BF:122:LYS:HB2	2.38	0.53
29:BF:15:SER:OG	29:BF:16:GLY:N	2.41	0.53
29:BF:196:LEU:HD22	29:BF:199:TRP:CD1	2.44	0.53
29:BF:201:VAL:HG12	29:BF:205:ARG:HH21	1.73	0.53
29:BF:32:LEU:O	29:BF:35:GLU:HB2	2.07	0.53
30:BG:56:ALA:HB1	30:BG:68:PRO:HG2	1.90	0.53
31:BH:87:LEU:O	31:BH:132:ARG:HB3	2.08	0.53
31:BH:9:ILE:HD13	31:BH:73:ALA:HB2	1.87	0.53
34:BM:53:VAL:HG11	34:BM:123:TYR:HE2	1.73	0.53
34:BM:134:ARG:O	34:BM:135:PRO:O	2.27	0.53
36:BO:99:LEU:HD23	36:BO:100:LEU:N	2.23	0.53
36:BO:112:LEU:C	36:BO:129:ALA:HB3	2.28	0.53
24:BA:636:G:H2'	36:BO:113:LYS:HZ1	1.72	0.53
36:BO:32:THR:OG1	36:BO:35:HIS:CE1	2.61	0.53
36:BO:33:ARG:HG3	36:BO:35:HIS:CD2	2.43	0.53
37:BP:6:ARG:CZ	37:BP:8:LYS:HG3	2.39	0.53
38:BQ:61:HIS:HD1	38:BQ:64:ARG:CZ	2.20	0.53
39:BR:7:TYR:HB3	39:BR:11:LYS:HZ1	1.71	0.53
40:BS:17:THR:CB	40:BS:20:PRO:CD	2.85	0.53
40:BS:30:VAL:CG2	40:BS:32:TYR:CE2	2.85	0.53
42:BU:40:LEU:CA	42:BU:51:VAL:HG13	2.38	0.53
44:BW:32:PRO:O	44:BW:33:LYS:CB	2.57	0.53
44:BW:39:ILE:HD12	44:BW:54:VAL:HG12	1.89	0.53
45:BX:75:ILE:HG23	45:BX:75:ILE:O	2.07	0.53
45:BX:93:GLY:C	45:BX:95:LYS:H	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:95:PRO:CB	46:BY:130:PRO:HA	2.39	0.53
47:BZ:23:VAL:HA	47:BZ:38:VAL:CG1	2.37	0.53
47:BZ:21:LEU:HD11	47:BZ:40:GLN:CA	2.39	0.53
24:BA:2132:U:O2	24:BA:2133:G:H5''	2.09	0.53
2:A1:23:A:H2'	2:A1:24:A:C8	2.44	0.53
1:AA:1164:G:H1'	1:AA:1173:G:N2	2.23	0.53
1:AA:490:G:H2'	1:AA:491:G:H8	1.72	0.53
2:A1:25:G:C2	2:A1:26:G:H1'	2.44	0.53
1:AA:1138:G:N1	1:AA:1140:C:C5	2.77	0.53
1:AA:1161:C:OP2	1:AA:1161:C:H6	1.92	0.53
1:AA:1443:G:O2'	1:AA:1447:G:P	2.66	0.53
1:AA:1443:G:O2'	1:AA:1446:A:O3'	2.27	0.53
1:AA:193:C:H2'	1:AA:194:C:H6	1.73	0.53
1:AA:290:C:C6	1:AA:290:C:O5'	2.55	0.53
1:AA:515:G:H3'	1:AA:516:U:H6	1.73	0.53
1:AA:594:G:H2'	1:AA:595:G:C1'	2.38	0.53
1:AA:597:G:C5	1:AA:644:G:C2	2.96	0.53
1:AA:658:G:O2'	1:AA:659:U:H5'	2.09	0.53
1:AA:716:A:C2'	1:AA:717:C:H5'	2.39	0.53
1:AA:821:G:O2'	1:AA:822:C:C5'	2.55	0.53
1:AA:828:A:C8	1:AA:829:G:C8	2.97	0.53
1:AA:969:A:H5'	1:AA:970:C:OP2	2.08	0.53
3:AC:21:A:N7	3:AC:46:G:C6	2.76	0.53
3:AD:73:A:C2	3:AD:74:C:O4'	2.61	0.53
4:AE:99:GLY:HA3	4:AE:101:MET:SD	2.48	0.53
4:AE:107:THR:HA	4:AE:110:GLN:OE1	2.09	0.53
4:AE:175:ARG:HD2	4:AE:179:LYS:CE	2.38	0.53
4:AE:193:ASP:O	4:AE:194:PRO:C	2.46	0.53
4:AE:72:GLY:O	4:AE:73:THR:C	2.47	0.53
1:AA:1109:C:OP1	5:AF:176:HIS:NE2	2.42	0.53
5:AF:17:ASP:OD2	5:AF:18:TRP:HZ3	1.90	0.53
5:AF:24:ALA:CB	5:AF:32:LEU:HD12	2.38	0.53
5:AF:87:LEU:HD12	5:AF:101:LEU:HD11	1.91	0.53
6:AG:98:GLU:CD	6:AG:107:ARG:HG3	2.28	0.53
6:AG:118:ARG:HG3	6:AG:118:ARG:NH2	2.21	0.53
6:AG:187:ARG:HD2	6:AG:188:LEU:H	1.73	0.53
6:AG:200:GLU:CG	6:AG:201:GLN:H	2.22	0.53
6:AG:18:LYS:HE2	6:AG:20:TYR:CD2	2.44	0.53
6:AG:6:GLY:O	6:AG:8:VAL:CG2	2.56	0.53
7:AH:141:GLN:OE1	7:AH:141:GLN:CA	2.55	0.53
8:AI:76:ALA:HB1	8:AI:80:ARG:CZ	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:76:ARG:HD3	9:AJ:156:TRP:CD1	2.43	0.53
11:AL:19:LEU:HD22	11:AL:59:PHE:CD2	2.40	0.53
11:AL:58:HIS:HD2	11:AL:59:PHE:CD1	2.25	0.53
12:AM:23:ILE:O	12:AM:27:ALA:HB3	2.08	0.53
12:AM:24:VAL:CA	12:AM:34:VAL:HG21	2.35	0.53
12:AM:6:ILE:HG21	12:AM:98:ILE:HG13	1.90	0.53
13:AN:50:TYR:CZ	13:AN:54:ARG:HB3	2.44	0.53
1:AA:33:A:N3	14:AO:32:PHE:HZ	2.06	0.53
1:AA:1308:U:O5'	15:AP:99:ARG:NH1	2.41	0.53
1:AA:659:U:OP1	17:AR:9:GLN:CD	2.46	0.53
18:AS:26:ARG:HD2	18:AS:31:LYS:H	1.73	0.53
20:AU:29:PHE:CE1	20:AU:36:ASN:OD1	2.62	0.53
20:AU:72:ARG:HA	20:AU:75:ILE:CD1	2.20	0.53
22:AW:79:ARG:HG3	22:AW:79:ARG:HH11	1.73	0.53
48:B1:52:ILE:HG23	48:B1:55:LEU:HD22	1.90	0.53
50:B3:12:ALA:N	50:B3:40:HIS:NE2	2.56	0.53
53:B6:8:ASN:ND2	53:B6:10:ARG:N	2.56	0.53
24:BA:469:G:C2	53:B6:40:TRP:HZ2	2.21	0.53
24:BA:1048:A:C2	24:BA:1049:C:H1'	2.44	0.53
24:BA:1065:U:C3'	24:BA:1066:U:H5''	2.38	0.53
24:BA:565:C:C1'	24:BA:1252:G:O6	2.56	0.53
24:BA:141(A):C:H6	24:BA:141(A):C:O5'	1.92	0.53
24:BA:1499:C:H3'	24:BA:1500:G:C8	2.43	0.53
24:BA:1543:A:N7	24:BA:1544:C:H1'	2.23	0.53
24:BA:1624:G:N1	24:BA:1625:C:N4	2.57	0.53
24:BA:1640:C:H2'	24:BA:1641:A:O4'	2.07	0.53
24:BA:155:C:C2	24:BA:171:G:N2	2.77	0.53
24:BA:1772:G:H21	24:BA:1774:C:C5'	2.21	0.53
24:BA:1801:G:C8	24:BA:1801:G:OP1	2.61	0.53
24:BA:1808:U:O2	24:BA:1808:U:H2'	2.07	0.53
24:BA:1813:G:N3	24:BA:1813:G:H2'	2.24	0.53
24:BA:1820:U:H2'	27:BD:202:LYS:HZ3	1.74	0.53
24:BA:1842:G:N3	24:BA:1843:C:C6	2.77	0.53
24:BA:1952:A:C4	24:BA:1953:A:C2	2.96	0.53
24:BA:1657:C:N3	24:BA:2004:G:N2	2.56	0.53
24:BA:2092:U:H5	24:BA:2227:A:C6	2.26	0.53
24:BA:2226:C:O2'	24:BA:2227:A:H5'	2.08	0.53
24:BA:2373:G:O2'	24:BA:2374:C:C6	2.61	0.53
24:BA:2387:U:C2	47:BZ:41:ARG:NH2	2.77	0.53
24:BA:2421:G:N3	24:BA:2422:A:N7	2.57	0.53
24:BA:243:U:N3	24:BA:244:A:C8	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2545:G:H2'	24:BA:2546:U:H5'	1.91	0.53
24:BA:270(Z):U:C2'	24:BA:270(Z):U:O2	2.56	0.53
24:BA:2728:U:H2'	24:BA:2729:G:C8	2.44	0.53
24:BA:2731:G:C2	24:BA:2732:G:C2	2.96	0.53
24:BA:2813:A:H2'	24:BA:2814:C:C6	2.43	0.53
24:BA:2828:C:N3	24:BA:2829:C:C5	2.76	0.53
24:BA:446:G:H4'	24:BA:449:A:N7	2.23	0.53
24:BA:608:A:H2'	24:BA:609:A:H5'	1.90	0.53
24:BA:64:A:HO2'	24:BA:65:C:H5'	1.71	0.53
24:BA:805:G:C2'	24:BA:806:C:OP1	2.53	0.53
24:BA:834:C:O5'	24:BA:834:C:H6	1.91	0.53
24:BA:957:A:OP2	37:BP:77:LYS:CD	2.46	0.53
24:BA:989:G:HO2'	24:BA:990:A:P	2.31	0.53
25:BB:62:C:O2	25:BB:63:G:C8	2.62	0.53
25:BB:79:C:N4	25:BB:80:U:C4	2.76	0.53
25:BB:89:G:C8	25:BB:89(A):A:N7	2.76	0.53
27:BD:5:LYS:O	27:BD:27:THR:HG22	2.08	0.53
28:BE:149:ARG:NH1	28:BE:150:VAL:O	2.40	0.53
28:BE:59:VAL:C	28:BE:62:PRO:HD2	2.28	0.53
28:BE:4:ILE:CD1	28:BE:76:ARG:CZ	2.81	0.53
29:BF:122:LYS:HE3	29:BF:192:LEU:HB3	1.89	0.53
29:BF:69:HIS:C	29:BF:69:HIS:ND1	2.59	0.53
30:BG:26:GLN:O	30:BG:27:ASN:HB2	2.09	0.53
30:BG:40:ASN:HD22	30:BG:41:GLN:N	2.00	0.53
30:BG:59:GLU:HB3	30:BG:152:LEU:HD13	1.89	0.53
3:AC:19:G:H21	30:BG:82:LEU:CD1	2.19	0.53
33:BL:112:MET:CE	33:BL:118:THR:HG22	2.39	0.53
35:BN:1:MET:HG3	35:BN:2:ILE:H	1.72	0.53
35:BN:63:VAL:CG2	35:BN:80:ASP:O	2.57	0.53
35:BN:94:ARG:HG3	35:BN:96:THR:N	2.21	0.53
38:BQ:83:ILE:CD1	38:BQ:86:ARG:HE	2.16	0.53
39:BR:57:LYS:NZ	39:BR:65:VAL:CA	2.67	0.53
40:BS:38:ASN:C	40:BS:39:ARG:HG2	2.28	0.53
24:BA:581:C:OP1	41:BT:32:PHE:HB2	2.09	0.53
42:BU:34:GLU:CA	42:BU:62:LEU:O	2.50	0.53
45:BX:71:LYS:CD	45:BX:71:LYS:H	2.16	0.53
46:BY:117:LEU:O	46:BY:174:VAL:HG12	2.09	0.53
46:BY:152:ALA:HB3	46:BY:168:GLU:N	2.23	0.53
46:BY:39:VAL:CG1	46:BY:41:LEU:HD23	2.38	0.53
46:BY:1:MET:H2	46:BY:53:ILE:HD11	1.73	0.53
46:BY:3:TYR:HB3	46:BY:61:LEU:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:22:GLY:O	47:BZ:38:VAL:CG1	2.56	0.53
32:BK:132:PRO:HD3	32:BK:138:ILE:H	1.71	0.53
24:BA:2125:G:N2	24:BA:2172:U:H5'	2.23	0.53
26:BC:113:VAL:HG12	26:BC:138:PRO:CG	2.38	0.53
26:BC:30:LYS:HD2	26:BC:185:LEU:HD11	1.91	0.53
24:BA:1489:U:O2'	24:BA:1490:A:OP2	2.24	0.53
24:BA:1505:C:O2	24:BA:1505:C:H2'	2.09	0.53
24:BA:1483:G:C1'	24:BA:1507:A:C2	2.90	0.53
36:BO:149:GLU:CD	36:BO:150:ALA:N	2.58	0.53
1:AA:1004:A:H3'	1:AA:1025:U:C2	2.42	0.53
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.32	0.53
1:AA:1101:A:O2'	1:AA:1102:A:P	2.67	0.53
1:AA:1191:A:P	5:AF:4:LYS:NZ	2.81	0.53
1:AA:1239:A:H5''	1:AA:1240:U:OP1	2.09	0.53
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.44	0.53
1:AA:1284:C:N3	1:AA:1285:A:N6	2.56	0.53
1:AA:1292:U:OP2	1:AA:1292:U:H6	1.92	0.53
1:AA:1440:C:OP2	1:AA:1440:C:C6	2.62	0.53
1:AA:1451:A:N3	1:AA:1451:A:H2'	2.22	0.53
1:AA:1454:G:H2'	1:AA:1455:G:C8	2.30	0.53
1:AA:190:G:H4'	1:AA:191(A):G:OP2	2.08	0.53
1:AA:196:A:H1'	1:AA:222:U:C1'	2.38	0.53
1:AA:295:C:H2'	1:AA:296:U:O5'	2.09	0.53
1:AA:352:C:OP1	1:AA:352:C:H6	1.92	0.53
1:AA:465:A:C8	1:AA:467:G:C6	2.96	0.53
1:AA:530:G:C6	3:AB:35:A:O2'	2.53	0.53
1:AA:637:G:O2'	1:AA:638:G:H5'	2.09	0.53
1:AA:736:C:OP1	20:AU:72:ARG:NH2	2.42	0.53
1:AA:740:U:H2'	1:AA:741:G:C8	2.42	0.53
1:AA:979:C:H2'	1:AA:980:C:C5'	2.38	0.53
4:AE:80:ILE:HG12	4:AE:212:GLN:HG2	1.91	0.53
4:AE:54:THR:HG23	4:AE:199:TYR:HB3	1.89	0.53
4:AE:79:ASP:O	4:AE:83:MET:HG2	2.08	0.53
5:AF:125:GLU:O	5:AF:127:ARG:HG3	2.09	0.53
5:AF:24:ALA:CB	5:AF:28:GLN:HE22	2.20	0.53
5:AF:49:SER:C	5:AF:51:GLY:H	2.11	0.53
6:AG:161:ASN:O	6:AG:165:MET:HB3	2.08	0.53
6:AG:143:GLY:CA	6:AG:185:PHE:HB3	2.33	0.53
6:AG:78:LEU:HD13	6:AG:96:LEU:CB	2.38	0.53
1:AA:737:A:H5'	8:AI:90:VAL:HG13	1.90	0.53
10:AK:19:VAL:O	10:AK:20:TYR:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:39:PRO:O	12:AM:40:LEU:CB	2.56	0.53
13:AN:101:SER:HG	13:AN:103:LEU:HG	1.73	0.53
14:AO:41:ARG:CG	14:AO:42:THR:N	2.61	0.53
15:AP:81:LEU:HB2	15:AP:86:CYS:SG	2.49	0.53
19:AT:10:VAL:HB	19:AT:54:GLY:C	2.29	0.53
19:AT:27:PHE:O	19:AT:36:ILE:CD1	2.57	0.53
20:AU:46:GLU:N	20:AU:49:LYS:NZ	2.56	0.53
20:AU:47:THR:H	20:AU:49:LYS:NZ	2.00	0.53
22:AW:40:ALA:O	22:AW:41:ILE:C	2.47	0.53
22:AW:91:LEU:HD23	22:AW:91:LEU:H	1.74	0.53
48:B1:14:VAL:HG13	48:B1:18:LYS:NZ	2.24	0.53
49:B2:37:LEU:HG	49:B2:38:GLU:C	2.30	0.53
52:B5:12:GLU:CG	52:B5:13:CYS:N	2.60	0.53
54:B7:15:LYS:HZ3	54:B7:64:TYR:HB3	1.74	0.53
24:BA:1011:G:C5'	24:BA:1012:U:OP2	2.57	0.53
24:BA:1069:A:C6	24:BA:1096:A:OP1	2.62	0.53
24:BA:1122:G:C2	24:BA:1123:C:C6	2.96	0.53
24:BA:1189:A:H5''	36:BO:29:LYS:NZ	2.24	0.53
24:BA:1212:G:O2'	24:BA:1213:A:C8	2.51	0.53
24:BA:1322:A:N7	24:BA:1323:U:C5	2.77	0.53
24:BA:742:G:C4'	24:BA:1675:C:O2'	2.56	0.53
24:BA:1787:A:O2'	24:BA:1788:C:H5'	2.08	0.53
24:BA:1858:G:H22	24:BA:1884:A:C1'	2.22	0.53
24:BA:1842:G:C6	24:BA:1901:A:N1	2.77	0.53
24:BA:1950:G:C5	24:BA:1951:U:H5	2.27	0.53
24:BA:197:A:H5''	24:BA:2068:U:C4	2.44	0.53
24:BA:2253:G:C4	24:BA:2254:C:C5	2.97	0.53
24:BA:2393:A:H2'	24:BA:2394:C:O4'	2.09	0.53
24:BA:2506:U:C2'	24:BA:2507:C:H5'	2.39	0.53
24:BA:2606:C:H6	24:BA:2606:C:C5'	2.21	0.53
24:BA:2618:G:N3	24:BA:2619:C:C6	2.77	0.53
24:BA:2637:U:H3	24:BA:2782:G:N2	2.07	0.53
24:BA:2737:G:H1	24:BA:2768:C:N4	2.06	0.53
24:BA:304:G:C2	24:BA:305:U:H1'	2.43	0.53
24:BA:420:C:H2'	24:BA:421:U:O4'	2.09	0.53
24:BA:424:G:C2	24:BA:425:G:C8	2.97	0.53
24:BA:443:A:N7	29:BF:45:ARG:HD3	2.23	0.53
24:BA:454:A:H8	24:BA:454:A:H3'	1.74	0.53
24:BA:498:G:C2'	24:BA:499:U:H5'	2.38	0.53
24:BA:531:C:O2	24:BA:531:C:H2'	2.08	0.53
24:BA:650:C:C4	24:BA:651:G:C2	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:780:G:C5	24:BA:782:A:N6	2.76	0.53
24:BA:857:C:O2'	47:BZ:23:VAL:HB	2.09	0.53
24:BA:875:G:C6	24:BA:876:C:C4	2.96	0.53
24:BA:944:G:O2'	24:BA:945:A:OP2	2.26	0.53
24:BA:972:G:OP2	24:BA:972:G:O4'	2.27	0.53
27:BD:133:LEU:HD12	27:BD:187:GLY:CA	2.39	0.53
27:BD:240:ALA:O	27:BD:241:PRO:O	2.26	0.53
27:BD:267:SER:OG	27:BD:268:ARG:N	2.40	0.53
24:BA:1813:G:O2'	27:BD:46:GLN:CD	2.47	0.53
24:BA:1568:G:OP2	27:BD:61:LEU:CD1	2.57	0.53
29:BF:156:LEU:O	29:BF:176:LEU:O	2.26	0.53
24:BA:616:A:H1'	29:BF:180:GLY:HA3	1.91	0.53
30:BG:50:ALA:CA	30:BG:70:VAL:HG13	2.38	0.53
31:BH:121:ILE:HD11	31:BH:123:PHE:CZ	2.43	0.53
33:BL:7:VAL:HA	33:BL:58:THR:HB	1.90	0.53
33:BL:99:ILE:CG2	33:BL:100:THR:H	2.19	0.53
35:BN:105:GLU:O	35:BN:108:GLU:N	2.41	0.53
36:BO:126:VAL:HB	36:BO:146:VAL:H	1.74	0.53
37:BP:46:GLN:HE22	37:BP:126:PRO:HG3	1.74	0.53
38:BQ:32:GLY:O	38:BQ:116:LEU:CD2	2.56	0.53
24:BA:531:C:O2	41:BT:28:ARG:CZ	2.57	0.53
41:BT:48:ALA:CA	41:BT:51:LYS:HD2	2.38	0.53
42:BU:14:VAL:CG1	42:BU:19:LYS:HE2	2.38	0.53
42:BU:23:GLU:HA	42:BU:93:GLU:HB3	1.89	0.53
44:BW:21:PHE:HA	44:BW:26:TYR:CD2	2.44	0.53
44:BW:32:PRO:HG3	44:BW:77:LYS:HB2	1.89	0.53
44:BW:79:ALA:C	44:BW:80:ILE:HD13	2.29	0.53
46:BY:141:VAL:HG12	46:BY:143:GLY:H	1.73	0.53
46:BY:161:VAL:CG1	46:BY:162:GLU:N	2.72	0.53
46:BY:11:GLU:HG3	46:BY:36:LYS:HZ2	1.72	0.53
46:BY:43:GLU:HA	46:BY:46:LYS:CD	2.38	0.53
24:BA:2134:A:C6	24:BA:2135:A:H2	2.26	0.53
24:BA:2136:C:C2	24:BA:2137:C:C6	2.97	0.53
26:BC:68:LEU:CD2	26:BC:69:GLY:N	2.69	0.53
1:AA:131:C:C4	1:AA:232:G:C2	2.97	0.53
1:AA:1072:G:C6	1:AA:1104:G:C6	2.96	0.53
1:AA:1302:U:O2'	1:AA:1303:C:P	2.67	0.53
1:AA:1307:U:H2'	1:AA:1308:U:O4'	2.09	0.53
1:AA:1251:A:C2	1:AA:1354:C:H1'	2.43	0.53
1:AA:136:C:O4'	18:AS:1:MET:HE1	2.09	0.53
1:AA:1418:A:C2'	1:AA:1419:G:H5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1468:A:H2'	1:AA:1469:G:H5'	1.89	0.53
1:AA:363:A:N1	1:AA:364:A:N3	2.57	0.53
1:AA:424:G:O2'	1:AA:425:G:H5'	2.09	0.53
1:AA:521:G:C2	1:AA:522:C:C2	2.96	0.53
1:AA:577:G:H8	1:AA:577:G:OP1	1.91	0.53
1:AA:593:G:C6	1:AA:594:G:C5	2.97	0.53
1:AA:67:C:H2'	1:AA:68:G:C8	2.44	0.53
1:AA:791:G:C8	1:AA:792:A:N7	2.76	0.53
1:AA:855:G:O2'	1:AA:856:C:H5'	2.08	0.53
1:AA:952:U:HO2'	15:AP:126:LYS:C	2.12	0.53
3:AC:34:G:H2'	3:AC:35:A:H8	1.73	0.53
3:AC:5:G:H2'	3:AC:6:G:C8	2.44	0.53
4:AE:196:LEU:CD1	4:AE:196:LEU:C	2.77	0.53
6:AG:124:GLY:O	6:AG:125:HIS:C	2.47	0.53
6:AG:128:VAL:O	6:AG:130:GLY:N	2.42	0.53
9:AJ:10:ARG:HB2	9:AJ:10:ARG:HH11	1.74	0.53
9:AJ:12:LEU:HD22	9:AJ:24:THR:CG2	2.38	0.53
10:AK:48:TYR:CD1	10:AK:49:GLU:N	2.77	0.53
11:AL:23:ASN:ND2	11:AL:24:GLY:N	2.57	0.53
12:AM:30:SER:HB3	12:AM:80:LYS:CG	2.37	0.53
12:AM:61:GLU:CG	12:AM:62:HIS:H	2.19	0.53
13:AN:40:ILE:CD1	13:AN:40:ILE:N	2.61	0.53
13:AN:43:SER:HB3	13:AN:64:ALA:HB1	1.91	0.53
13:AN:58:PRO:HB2	13:AN:93:GLN:HG3	1.91	0.53
14:AO:21:LYS:O	14:AO:22:SER:O	2.27	0.53
14:AO:32:PHE:HB3	14:AO:85:ILE:O	2.09	0.53
14:AO:36:VAL:HG23	14:AO:81:SER:O	2.08	0.53
17:AR:54:ARG:HD3	17:AR:55:GLY:N	2.24	0.53
17:AR:36:ILE:HG13	17:AR:59:MET:SD	2.49	0.53
17:AR:79:ARG:HA	17:AR:82:ILE:CG1	2.38	0.53
19:AT:59:ILE:O	19:AT:59:ILE:HG23	2.08	0.53
19:AT:7:THR:HG23	19:AT:8:GLY:H	1.74	0.53
20:AU:26:LEU:CD2	20:AU:29:PHE:HB2	2.39	0.53
20:AU:39:VAL:O	20:AU:43:PHE:CE1	2.62	0.53
23:AX:3:LYS:HD2	23:AX:14:TRP:HB2	1.90	0.53
49:B2:17:LYS:HA	49:B2:20:LYS:HZ3	1.71	0.53
52:B5:17:LYS:C	52:B5:19:ARG:HD2	2.28	0.53
52:B5:41:PRO:HD2	52:B5:47:THR:OG1	2.08	0.53
24:BA:1069:A:C5'	24:BA:1070:A:H3'	2.39	0.53
24:BA:1255:U:C5'	24:BA:1256:G:C5'	2.69	0.53
24:BA:126:A:C2	53:B6:18:PHE:HB3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1344:G:C5	24:BA:1385:G:C8	2.97	0.53
24:BA:140:A:H61	24:BA:1596:A:C4'	2.20	0.53
24:BA:143:C:O2	24:BA:144:C:C5	2.61	0.53
24:BA:1451:C:C3'	24:BA:1453:A:H4'	2.38	0.53
24:BA:1475:G:C2'	24:BA:1475:G:N3	2.71	0.53
24:BA:1632:A:C6	24:BA:1633:G:N1	2.76	0.53
24:BA:1691:C:N3	24:BA:1697:G:N2	2.56	0.53
24:BA:1752:C:H5''	24:BA:2862:G:OP1	2.08	0.53
24:BA:1790:C:N3	24:BA:1791:A:N6	2.57	0.53
24:BA:1807:G:N3	24:BA:1809:A:H5'	2.24	0.53
24:BA:1829:A:C2	24:BA:1830:C:C1'	2.91	0.53
24:BA:1911:U:H2'	24:BA:1912:A:C5'	2.36	0.53
24:BA:1944:U:O2	24:BA:1955:U:H6	1.91	0.53
24:BA:1971:A:C3'	24:BA:1971:A:H8	2.16	0.53
24:BA:1996:C:C2	24:BA:1997:G:H4'	2.44	0.53
24:BA:2018:G:C2'	24:BA:2019:A:O4'	2.57	0.53
24:BA:2197:U:C2'	24:BA:2198:A:H5''	2.39	0.53
24:BA:2209:C:H2'	24:BA:2210:G:C3'	2.36	0.53
24:BA:2230:G:O2'	24:BA:2231:C:H5'	2.09	0.53
24:BA:2273:A:C8	24:BA:2274:A:O4'	2.62	0.53
24:BA:2389:G:C5'	24:BA:2390:U:H6	2.21	0.53
24:BA:2415:G:OP1	36:BO:61:ARG:CD	2.53	0.53
24:BA:2436:G:O2'	24:BA:2437:U:OP1	2.27	0.53
24:BA:2573:C:O5'	24:BA:2573:C:H6	1.92	0.53
24:BA:2553:G:C6	24:BA:2583:G:O2'	2.61	0.53
24:BA:2617:C:O2'	24:BA:2618:G:H5'	2.09	0.53
24:BA:261:G:HO2'	24:BA:262:A:H5'	1.73	0.53
24:BA:265:A:H2'	24:BA:266:G:C4'	2.39	0.53
24:BA:2690:C:C2'	24:BA:2691:C:OP2	2.56	0.53
24:BA:2675:A:H61	24:BA:2732:G:H1	1.53	0.53
24:BA:2868:A:C4	24:BA:2869:G:C8	2.97	0.53
24:BA:2870:C:H2'	24:BA:2871:C:O4'	2.09	0.53
24:BA:2882:A:H5''	38:BQ:98:LEU:HD21	1.91	0.53
24:BA:2808:U:N1	24:BA:2892:A:N6	2.57	0.53
24:BA:292:C:C2'	24:BA:293:U:C2	2.91	0.53
24:BA:307:G:N2	24:BA:310:A:O4'	2.42	0.53
24:BA:514:A:H2'	24:BA:515:A:H5'	1.91	0.53
24:BA:52:A:C4	24:BA:53:A:C8	2.97	0.53
24:BA:563:G:H2'	24:BA:563:G:N3	2.23	0.53
24:BA:261:G:C4'	24:BA:608:A:H2	1.99	0.53
24:BA:648:G:C2'	24:BA:649:G:H8	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:67:U:H2'	24:BA:68:G:H8	1.67	0.53
24:BA:730:C:O2	24:BA:730:C:H2'	2.06	0.53
24:BA:731:C:H2'	24:BA:732:C:O5'	2.09	0.53
24:BA:735:A:O5'	24:BA:735:A:C8	2.57	0.53
24:BA:848:G:N2	24:BA:931:G:N7	2.57	0.53
24:BA:874:G:C2	24:BA:904:C:N3	2.77	0.53
25:BB:113:C:H2'	25:BB:114:G:H8	1.74	0.53
25:BB:12:C:C4	47:BZ:74:ARG:O	2.62	0.53
25:BB:48:A:C2	25:BB:49:C:C2	2.96	0.53
25:BB:72:G:H5''	25:BB:73:A:OP1	2.09	0.53
27:BD:112:GLN:N	27:BD:115:GLN:HE22	2.03	0.53
27:BD:181:GLU:HA	27:BD:270:ILE:CB	2.39	0.53
27:BD:196:VAL:HG12	27:BD:198:ASN:N	2.24	0.53
27:BD:183:ARG:HG2	27:BD:268:ARG:CD	2.37	0.53
28:BE:176:ILE:CD1	28:BE:179:GLU:O	2.53	0.53
28:BE:4:ILE:HD12	28:BE:4:ILE:C	2.29	0.53
28:BE:47:VAL:CG2	28:BE:79:ARG:HB2	2.35	0.53
29:BF:19:GLU:C	29:BF:20:LEU:CD2	2.50	0.53
29:BF:37:VAL:O	29:BF:184:TYR:OH	2.27	0.53
30:BG:47:LYS:NZ	30:BG:73:ALA:HB3	2.23	0.53
31:BH:101:ARG:O	31:BH:116:GLU:HA	2.09	0.53
31:BH:105:LEU:CD2	31:BH:105:LEU:N	2.63	0.53
31:BH:85:LYS:NZ	31:BH:142:GLY:CA	2.72	0.53
35:BN:13:ASN:O	35:BN:14:THR:O	2.26	0.53
35:BN:63:VAL:CG1	35:BN:99:PHE:CZ	2.92	0.53
36:BO:122:PRO:CB	36:BO:138:LEU:CA	2.87	0.53
36:BO:29:LYS:CD	36:BO:29:LYS:N	2.71	0.53
36:BO:63:PRO:O	36:BO:65:ARG:HG3	2.09	0.53
37:BP:125:LEU:HB3	37:BP:126:PRO:HD3	1.91	0.53
37:BP:7:MET:O	37:BP:69:PHE:CE1	2.62	0.53
39:BR:28:VAL:HB	39:BR:101:LEU:HG	1.90	0.53
40:BS:2:ASN:OD1	40:BS:3:ARG:N	2.36	0.53
43:BV:104:THR:O	43:BV:104:THR:HG23	2.09	0.53
43:BV:36:LEU:CD2	43:BV:51:LEU:HD11	2.39	0.53
44:BW:50:LYS:HG3	44:BW:85:PRO:HD2	1.90	0.53
24:BA:1341:U:O2'	44:BW:56:THR:O	2.20	0.53
45:BX:7:VAL:HG22	45:BX:71:LYS:HG3	1.88	0.53
46:BY:163:LEU:HD12	46:BY:163:LEU:H	1.74	0.53
46:BY:168:GLU:OE1	46:BY:169:GLU:N	2.41	0.53
46:BY:62:PRO:O	46:BY:64:GLY:N	2.41	0.53
47:BZ:27:GLU:CA	47:BZ:69:PHE:CE1	2.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:77:LEU:HD12	32:BK:142:VAL:HG22	1.89	0.53
32:BK:79:ILE:O	32:BK:144:VAL:HG23	2.08	0.53
24:BA:2165:G:C8	24:BA:2166:G:C8	2.97	0.53
26:BC:7:TYR:CZ	26:BC:11:LEU:HD13	2.44	0.53
26:BC:86:ALA:O	26:BC:89:ALA:HB3	2.09	0.53
26:BC:89:ALA:HB2	26:BC:154:ARG:HH11	1.72	0.53
24:BA:2186:G:N1	24:BA:2187:G:O6	2.42	0.53
24:BA:2155:G:H2'	24:BA:2156:G:O5'	2.09	0.53
1:AA:1053:G:N7	1:AA:1200:C:OP2	2.42	0.53
1:AA:112:G:N2	1:AA:113:G:N9	2.57	0.53
1:AA:1184:G:C2	1:AA:1185:G:C5	2.97	0.53
1:AA:1222:G:C2	1:AA:1223:C:N3	2.76	0.53
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.09	0.53
1:AA:1405:G:O4'	1:AA:1519:A:C4'	2.56	0.53
1:AA:1442:G:C6	1:AA:1446:A:C6	2.97	0.53
1:AA:1453:G:H2'	1:AA:1454:G:C5'	2.39	0.53
1:AA:151:A:N6	1:AA:152:A:H2	2.06	0.53
1:AA:166:G:C2	1:AA:167:G:C8	2.97	0.53
1:AA:300:A:C2'	1:AA:301:G:H5'	2.38	0.53
1:AA:335:C:H1'	1:AA:1434:A:H1'	1.91	0.53
1:AA:557:G:C3'	1:AA:558:G:C8	2.88	0.53
1:AA:566:G:C4'	1:AA:567:G:OP1	2.57	0.53
1:AA:745:C:H2'	1:AA:746:A:C8	2.44	0.53
1:AA:875:C:C2'	1:AA:876:G:O5'	2.56	0.53
1:AA:900:A:N7	1:AA:901:A:N7	2.56	0.53
3:AB:8:U:H3'	3:AB:13:C:H41	1.74	0.53
3:AB:62:C:H6	3:AB:62:C:O5'	1.92	0.53
3:AC:12:U:O5'	3:AC:12:U:H6	1.92	0.53
2:A1:40:U:C4	3:AC:37:A:N1	2.77	0.53
3:AC:5:G:H2'	3:AC:6:G:H8	1.74	0.53
4:AE:169:LYS:C	4:AE:171:ALA:N	2.62	0.53
4:AE:70:PHE:CA	4:AE:163:PHE:O	2.57	0.53
4:AE:80:ILE:HB	4:AE:208:ILE:HD11	1.89	0.53
5:AF:136:GLN:HA	5:AF:139:GLN:HB2	1.91	0.53
5:AF:46:GLU:HB3	5:AF:47:LEU:CD2	2.38	0.53
6:AG:173:TRP:CD1	6:AG:189:PRO:CB	2.91	0.53
2:A1:52:U:OP2	6:AG:50:ARG:HG3	2.09	0.53
6:AG:94:LEU:HA	6:AG:97:LEU:HD11	1.89	0.53
7:AH:149:GLU:O	7:AH:152:ARG:N	2.42	0.53
8:AI:79:LEU:HB2	8:AI:88:VAL:CG1	2.39	0.53
9:AJ:56:GLN:NE2	9:AJ:56:GLN:H	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:77:SER:C	9:AJ:156:TRP:HZ2	2.13	0.53
10:AK:103:VAL:HG11	10:AK:109:ILE:N	2.24	0.53
19:AT:40:LYS:HB3	19:AT:42:TYR:HE1	1.73	0.53
19:AT:10:VAL:CG2	19:AT:55:ASP:O	2.49	0.53
19:AT:69:LYS:HZ2	19:AT:69:LYS:CB	2.22	0.53
19:AT:8:GLY:C	19:AT:56:VAL:HG13	2.29	0.53
8:AI:98:LEU:HD21	20:AU:28:GLU:HA	1.90	0.53
21:AV:11:VAL:HG12	21:AV:16:LEU:HD11	1.91	0.53
1:AA:1320:C:H5	21:AV:37:ARG:CZ	2.21	0.53
21:AV:47:HIS:H	21:AV:62:ILE:HG22	1.73	0.53
22:AW:54:LYS:O	22:AW:57:ARG:CB	2.56	0.53
48:B1:30:LEU:HD11	48:B1:48:LEU:CD2	2.39	0.53
49:B2:14:GLY:C	49:B2:15:TYR:CD1	2.83	0.53
50:B3:39:CYS:O	50:B3:40:HIS:CG	2.62	0.53
50:B3:58:ARG:HG2	50:B3:62:ARG:NH2	2.24	0.53
53:B6:5:TRP:CZ3	53:B6:12:ARG:NH1	2.77	0.53
53:B6:42:LEU:C	53:B6:44:PRO:CD	2.77	0.53
24:BA:1069:A:N1	24:BA:1096:A:OP1	2.41	0.53
24:BA:1256:G:C6	24:BA:1257:C:N4	2.77	0.53
24:BA:126:A:OP1	53:B6:17:GLY:CA	2.57	0.53
24:BA:149:A:C5	24:BA:150:C:C4	2.97	0.53
24:BA:1559:G:C6	24:BA:1560:G:C4'	2.91	0.53
24:BA:699:A:H1'	24:BA:1634:A:N7	2.24	0.53
24:BA:1944:U:C1'	24:BA:1955:U:H1'	2.38	0.53
24:BA:1678:G:H22	24:BA:1989:G:N2	2.05	0.53
24:BA:215:G:HO2'	24:BA:216:A:P	2.32	0.53
24:BA:2278:A:C6	24:BA:2279:G:N7	2.77	0.53
24:BA:2348:U:H2'	24:BA:2349:G:O5'	2.09	0.53
24:BA:2497:A:O2'	24:BA:2498:C:P	2.67	0.53
24:BA:2571:C:O2'	28:BE:146:THR:HG23	2.08	0.53
24:BA:270(J):G:C2	24:BA:270(K):C:C2	2.97	0.53
24:BA:2734:A:N7	24:BA:2735:G:C4	2.76	0.53
24:BA:2766:G:C2	24:BA:2767:C:C5	2.96	0.53
24:BA:2811:G:N2	24:BA:2891:G:H1'	2.24	0.53
24:BA:2841:C:C2	24:BA:2842:G:C8	2.97	0.53
24:BA:447:A:N1	24:BA:454:A:N7	2.57	0.53
24:BA:527:C:H2'	34:BM:114:ARG:NH1	2.23	0.53
24:BA:617:G:H2'	24:BA:618:G:C8	2.43	0.53
24:BA:648:G:N3	24:BA:649:G:N7	2.57	0.53
24:BA:822:U:OP2	24:BA:945:A:O3'	2.26	0.53
24:BA:937:U:H2'	24:BA:938:G:O4'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:168:ARG:HA	27:BD:174:ILE:CD1	2.39	0.53
27:BD:176:ARG:HA	27:BD:181:GLU:O	2.09	0.53
27:BD:56:GLY:HA3	27:BD:214:TRP:HZ3	1.74	0.53
27:BD:72:LYS:CD	27:BD:75:ILE:HD12	2.38	0.53
28:BE:173:VAL:CG2	28:BE:183:LEU:O	2.54	0.53
28:BE:13:ARG:NE	28:BE:20:ALA:C	2.62	0.53
28:BE:47:VAL:CA	28:BE:48:GLN:NE2	2.71	0.53
28:BE:5:LEU:C	28:BE:5:LEU:CD2	2.77	0.53
29:BF:176:LEU:C	29:BF:178:PRO:CD	2.77	0.53
30:BG:125:PHE:CE2	30:BG:127:GLY:C	2.82	0.53
30:BG:99:MET:O	30:BG:102:PHE:CB	2.57	0.53
31:BH:137:ASP:HB3	31:BH:140:LYS:CD	2.39	0.53
33:BL:23:VAL:HG12	33:BL:34:ILE:CA	2.34	0.53
33:BL:72:PRO:HD2	33:BL:111:LYS:HE3	1.91	0.53
34:BM:122:VAL:CG2	34:BM:123:TYR:N	2.71	0.53
34:BM:23:LEU:HD23	34:BM:60:ILE:HG21	1.90	0.53
34:BM:69:GLN:N	34:BM:70:LYS:HE2	2.24	0.53
34:BM:93:THR:C	34:BM:94:HIS:CD2	2.81	0.53
35:BN:103:ALA:O	35:BN:105:GLU:N	2.42	0.53
35:BN:121:VAL:O	35:BN:122:LEU:CB	2.56	0.53
35:BN:70:LYS:HB3	35:BN:107:ARG:HH12	1.73	0.53
36:BO:65:ARG:NH1	36:BO:68:GLN:CD	2.62	0.53
37:BP:25:ASP:HB3	37:BP:102:VAL:CG1	2.35	0.53
38:BQ:73:VAL:HB	38:BQ:77:ARG:CZ	2.39	0.53
42:BU:6:LYS:N	42:BU:12:TYR:HB3	2.24	0.53
43:BV:38:TYR:HD2	51:B4:39:MET:CE	2.21	0.53
24:BA:1599:C:OP2	44:BW:36:LYS:NZ	2.41	0.53
44:BW:7:VAL:HB	48:B1:28:MET:CG	2.38	0.53
37:BP:137:TYR:HE2	46:BY:124:ILE:HD12	1.72	0.53
47:BZ:21:LEU:HG	47:BZ:22:GLY:N	2.17	0.53
24:BA:2132:U:O2	24:BA:2134:A:C5	2.62	0.53
26:BC:7:TYR:OH	26:BC:14:VAL:HG21	2.08	0.53
1:AA:1150:U:H2'	1:AA:1151:A:C8	2.44	0.53
1:AA:1189:C:OP1	5:AF:5:ILE:HG21	2.09	0.53
1:AA:1201:A:HO2'	1:AA:1202:G:H5''	1.73	0.53
1:AA:1223:C:O5'	1:AA:1224:G:H5''	2.08	0.53
1:AA:1430:C:C2	1:AA:1471:G:N2	2.77	0.53
1:AA:68:G:H5'	1:AA:171:A:O2'	2.08	0.53
1:AA:241:C:C2'	1:AA:242:C:O5'	2.57	0.53
1:AA:269:C:H2'	1:AA:270:A:C8	2.43	0.53
1:AA:281:G:O2'	1:AA:282:A:H8	1.92	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:382:A:C2'	1:AA:383:A:O5'	2.57	0.53
1:AA:574:A:O3'	1:AA:575:G:H4'	2.06	0.53
1:AA:739:C:H2'	1:AA:740:U:C5'	2.40	0.53
1:AA:754:C:O2	1:AA:755:G:H5'	2.08	0.53
1:AA:765:G:O5'	1:AA:765:G:H8	1.92	0.53
1:AA:867:G:N2	1:AA:868:C:C2	2.77	0.53
1:AA:955:U:N3	1:AA:956:U:C5	2.77	0.53
1:AA:980:C:H3'	1:AA:981:U:C5	2.44	0.53
3:AC:75:C:C2'	3:AC:76:A:O3'	2.56	0.53
4:AE:103:THR:O	4:AE:104:ASN:CB	2.57	0.53
5:AF:140:ARG:HB3	5:AF:140:ARG:CZ	2.38	0.53
5:AF:179:ARG:O	5:AF:179:ARG:HG2	2.08	0.53
6:AG:126:ILE:HG21	6:AG:133:VAL:O	2.08	0.53
6:AG:128:VAL:HA	6:AG:146:ILE:CG2	2.39	0.53
7:AH:9:LYS:HD2	7:AH:111:GLU:OE1	2.09	0.53
7:AH:90:VAL:O	7:AH:120:THR:OG1	2.16	0.53
7:AH:95:ALA:O	7:AH:96:PRO:O	2.28	0.53
10:AK:18:ARG:H	10:AK:18:ARG:CD	2.21	0.53
10:AK:62:TYR:O	10:AK:63:LEU:O	2.26	0.53
11:AL:15:ALA:HB3	11:AL:76:ALA:HB3	1.88	0.53
11:AL:7:THR:O	11:AL:83:ARG:CZ	2.56	0.53
1:AA:1151:A:OP1	12:AM:41:PRO:CA	2.55	0.53
12:AM:31:GLY:HA2	12:AM:81:THR:OG1	2.08	0.53
12:AM:23:ILE:CD1	12:AM:85:LEU:HB3	2.39	0.53
13:AN:59:TYR:O	13:AN:60:ALA:C	2.47	0.53
14:AO:12:ARG:HH11	14:AO:12:ARG:HB3	1.73	0.53
14:AO:28:LYS:CE	14:AO:33:ARG:HH22	2.22	0.53
17:AR:35:ARG:HB3	17:AR:35:ARG:CZ	2.37	0.53
18:AS:81:ARG:HG2	18:AS:83:GLU:HG2	1.90	0.53
19:AT:5:VAL:HA	19:AT:59:ILE:O	2.09	0.53
20:AU:36:ASN:C	20:AU:40:LEU:HG	2.26	0.53
20:AU:68:LYS:O	20:AU:72:ARG:HG3	2.08	0.53
21:AV:42:PRO:O	21:AV:44:MET:N	2.42	0.53
21:AV:64:GLU:HG2	21:AV:65:ASN:N	2.23	0.53
23:AX:6:ARG:HG3	23:AX:7:ARG:N	2.24	0.53
24:BA:61:G:H5'	48:B1:45:ILE:CG1	2.39	0.53
24:BA:1065:U:H2'	24:BA:1066:U:C5'	2.39	0.53
24:BA:1199:U:C2	24:BA:1200:C:C6	2.96	0.53
24:BA:1612:C:H2'	53:B6:3:ARG:NH2	2.24	0.53
24:BA:1633:G:N7	24:BA:1635:G:N1	2.55	0.53
24:BA:1299:G:N2	24:BA:1640:C:OP2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:173:G:H21	24:BA:174:C:C1'	2.19	0.53
24:BA:1746:G:H2'	24:BA:1747:G:O4'	2.10	0.53
24:BA:1839:G:N7	24:BA:1927:A:N3	2.56	0.53
24:BA:1919:A:OP2	24:BA:1919:A:C8	2.62	0.53
24:BA:1980:G:C2'	24:BA:1981:A:H5''	2.39	0.53
24:BA:1991:U:H2'	24:BA:1992:G:OP2	2.09	0.53
24:BA:1993:U:C6	24:BA:1993:U:C3'	2.92	0.53
24:BA:2239:G:H3'	24:BA:2240:C:C5'	2.17	0.53
24:BA:241:A:C8	24:BA:243:U:C2	2.97	0.53
3:AB:63:G:H1'	24:BA:2482:G:H4'	1.91	0.53
24:BA:2521:C:H2'	24:BA:2522:U:O5'	2.09	0.53
24:BA:2538:C:H2'	24:BA:2539:C:C5	2.43	0.53
24:BA:2546:U:O4'	24:BA:2565:A:H2	1.92	0.53
24:BA:2505:G:O6	24:BA:2576:G:N9	2.42	0.53
24:BA:2768:C:C2	24:BA:2769:C:C6	2.97	0.53
24:BA:278:A:H2'	24:BA:279:C:C2	2.44	0.53
24:BA:2809:A:H4'	24:BA:2811:G:N7	2.23	0.53
24:BA:2815:C:O2'	51:B4:42:PRO:CG	2.57	0.53
24:BA:322:A:O2'	24:BA:340:A:C5	2.62	0.53
24:BA:350:U:OP2	24:BA:350:U:C6	2.61	0.53
24:BA:410:G:C6	24:BA:411:G:O6	2.62	0.53
24:BA:449:A:O2'	29:BF:52:LYS:NZ	2.37	0.53
24:BA:47:C:O5'	24:BA:47:C:C6	2.55	0.53
24:BA:526:A:OP1	24:BA:527:C:OP2	2.27	0.53
24:BA:48:G:H4'	24:BA:52:A:O4'	2.09	0.53
24:BA:532:A:C4'	24:BA:532:A:OP1	2.57	0.53
24:BA:601:C:O4'	29:BF:104:LYS:NZ	2.40	0.53
24:BA:721:C:H2'	24:BA:722:A:H8	1.73	0.53
24:BA:733:G:C6	24:BA:761:A:C4	2.97	0.53
24:BA:858:U:H3'	24:BA:859:G:N3	2.23	0.53
24:BA:847:U:N3	24:BA:933:A:C2	2.65	0.53
24:BA:988:A:OP1	49:B2:10:LYS:CD	2.56	0.53
25:BB:117:G:N3	25:BB:118:G:C8	2.77	0.53
25:BB:33:G:N2	25:BB:34:U:C2	2.77	0.53
27:BD:130:ALA:O	27:BD:131:LEU:CD1	2.55	0.53
27:BD:5:LYS:CE	27:BD:31:LYS:NZ	2.72	0.53
24:BA:1568:G:OP2	27:BD:61:LEU:HD12	2.09	0.53
28:BE:151:TYR:OH	28:BE:152:LYS:HG3	2.08	0.53
29:BF:158:THR:HG22	29:BF:160:ASN:H	1.74	0.53
24:BA:450:G:P	29:BF:52:LYS:HD3	2.49	0.53
30:BG:162:THR:C	30:BG:164:GLU:N	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2305:A:C6	30:BG:42:GLY:HA2	2.43	0.53
30:BG:77:ILE:HB	30:BG:83:ARG:HH11	1.73	0.53
31:BH:103:LEU:O	31:BH:104:GLU:O	2.26	0.53
31:BH:102:ALA:CA	31:BH:115:VAL:HG12	2.38	0.53
31:BH:67:LEU:O	31:BH:68:THR:C	2.46	0.53
24:BA:1058:G:O2'	33:BL:116:ASN:HB3	2.09	0.53
33:BL:79:ARG:NH1	33:BL:87:GLY:N	2.56	0.53
35:BN:12:ASP:OD1	35:BN:12:ASP:N	2.42	0.53
36:BO:126:VAL:CB	36:BO:146:VAL:H	2.22	0.53
36:BO:90:ARG:N	36:BO:125:VAL:HG22	2.24	0.53
37:BP:35:VAL:CG2	37:BP:101:ARG:O	2.53	0.53
37:BP:42:ILE:O	37:BP:94:VAL:CG2	2.57	0.53
37:BP:45:GLN:CA	37:BP:48:GLU:HG2	2.39	0.53
37:BP:66:ILE:O	37:BP:67:ARG:CB	2.57	0.53
38:BQ:75:LEU:HD23	38:BQ:78:LYS:HG2	1.91	0.53
38:BQ:98:LEU:HD23	38:BQ:99:LYS:HZ1	1.71	0.53
38:BQ:98:LEU:CD2	38:BQ:99:LYS:HZ2	2.21	0.53
39:BR:28:VAL:CG1	39:BR:90:GLY:HA2	2.39	0.53
24:BA:2845:G:OP1	40:BS:57:PHE:O	2.27	0.53
24:BA:445:C:OP1	41:BT:2:PRO:HB2	2.09	0.53
41:BT:53:ARG:O	41:BT:57:PHE:HD1	1.92	0.53
46:BY:77:ASP:OD1	46:BY:78:LYS:HG2	2.09	0.53
24:BA:2126:A:H4'	24:BA:2127:G:O5'	2.08	0.53
24:BA:2166:G:C2	24:BA:2172:U:O4	2.62	0.53
14:AO:126:LYS:CA	14:AO:126:LYS:HE3	2.39	0.53
24:BA:1582:C:H3'	24:BA:1583:A:O4'	2.09	0.53
24:BA:2191:G:N2	24:BA:2192:G:H1'	2.24	0.53
2:A1:33:U:H2'	2:A1:34:U:C5	2.44	0.52
1:AA:1002:G:N2	1:AA:1039:C:N4	2.58	0.52
1:AA:1026:G:H2'	1:AA:1027:C:C5'	2.38	0.52
1:AA:1039:C:C4	1:AA:1040:U:C5	2.96	0.52
1:AA:1073:U:O2'	1:AA:1074:G:C5'	2.57	0.52
1:AA:112:G:C2'	1:AA:113:G:H5'	2.39	0.52
1:AA:1188:A:C8	1:AA:1188:A:OP2	2.62	0.52
1:AA:1202:G:N7	12:AM:53:PRO:CB	2.72	0.52
1:AA:1237:C:O4'	1:AA:1334:G:N2	2.42	0.52
1:AA:250:A:N3	1:AA:252:U:C2	2.77	0.52
1:AA:267:C:OP2	19:AT:67:LYS:NZ	2.34	0.52
1:AA:57:G:N2	1:AA:388:G:N7	2.58	0.52
1:AA:559:A:C8	1:AA:561:U:C5	2.96	0.52
1:AA:583:A:H2'	1:AA:584:G:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:585:G:H2'	1:AA:586:C:H6	1.74	0.52
1:AA:817:C:H2'	1:AA:817:C:O2	2.09	0.52
1:AA:86:U:OP2	1:AA:87:A:N1	2.42	0.52
1:AA:886:G:H2'	1:AA:887:G:C5'	2.39	0.52
1:AA:922:G:H2'	1:AA:923:A:O4'	2.09	0.52
3:AC:76:A:C5	24:BA:2585:U:H1'	2.43	0.52
4:AE:173:ALA:HA	4:AE:176:GLU:CG	2.39	0.52
4:AE:102:LEU:O	4:AE:180:LEU:HD13	2.09	0.52
4:AE:50:GLU:CG	4:AE:200:ILE:O	2.42	0.52
4:AE:234:PRO:CA	4:AE:238:LEU:HD13	2.38	0.52
4:AE:82:ARG:CB	4:AE:94:ASN:HD21	2.22	0.52
5:AF:12:LEU:CD1	5:AF:18:TRP:CH2	2.92	0.52
5:AF:132:ARG:HB3	5:AF:136:GLN:HE22	1.73	0.52
5:AF:134:ILE:N	5:AF:134:ILE:HD12	2.22	0.52
5:AF:36:ASP:OD2	5:AF:57:ILE:HD12	2.08	0.52
1:AA:407:G:H1'	6:AG:119:GLN:OE1	2.08	0.52
6:AG:10:ARG:NH1	6:AG:11:LEU:HD23	2.23	0.52
6:AG:180:GLY:O	6:AG:181:MET:C	2.47	0.52
7:AH:115:VAL:CG2	7:AH:118:ILE:HD12	2.36	0.52
7:AH:110:LEU:HD22	7:AH:139:LEU:HD21	1.91	0.52
7:AH:151:LEU:HD11	10:AK:77:GLU:HB2	1.91	0.52
7:AH:80:ILE:N	7:AH:80:ILE:HD12	2.24	0.52
8:AI:45:LEU:HD23	8:AI:59:TYR:CA	2.39	0.52
9:AJ:153:HIS:CE1	13:AN:58:PRO:CG	2.93	0.52
4:AE:181:PHE:HE1	10:AK:72:PRO:HD2	1.73	0.52
11:AL:17:VAL:HA	11:AL:63:ILE:HG23	1.89	0.52
12:AM:44:VAL:HG22	12:AM:66:ARG:HD3	1.91	0.52
12:AM:8:LEU:CD1	12:AM:16:LEU:HA	2.39	0.52
13:AN:128:ALA:O	13:AN:129:SER:OXT	2.27	0.52
13:AN:63:LEU:O	13:AN:66:LEU:CB	2.56	0.52
1:AA:562:C:H2'	14:AO:15:ARG:HB3	1.91	0.52
1:AA:521:G:OP2	14:AO:54:LYS:NZ	2.38	0.52
14:AO:5:PRO:O	14:AO:6:THR:CB	2.57	0.52
15:AP:15:VAL:HG11	15:AP:34:LEU:CD2	2.39	0.52
15:AP:55:ARG:HH21	15:AP:56:LEU:CD2	2.17	0.52
15:AP:64:TRP:HD1	15:AP:65:LYS:H	1.55	0.52
16:AQ:27:CYS:C	16:AQ:40:CYS:SG	2.88	0.52
17:AR:69:TYR:O	17:AR:70:LEU:C	2.48	0.52
1:AA:720:C:H5''	20:AU:52:PRO:HB3	1.92	0.52
21:AV:32:LYS:CB	21:AV:50:ALA:HB3	2.39	0.52
22:AW:15:ARG:O	22:AW:16:HIS:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:29:LYS:O	22:AW:32:ALA:N	2.42	0.52
23:AX:8:THR:HG22	23:AX:21:TYR:CE2	2.44	0.52
50:B3:24:THR:O	50:B3:25:TYR:HD2	1.91	0.52
38:BQ:100:LEU:O	51:B4:44:THR:CG2	2.57	0.52
36:BO:52:GLU:OE1	54:B7:52:LYS:HE2	2.09	0.52
24:BA:1006:C:O2'	34:BM:106:MET:CB	2.54	0.52
24:BA:1043:C:O2'	24:BA:1048:A:O2'	2.24	0.52
24:BA:1062:G:H2'	24:BA:1062:G:N3	2.24	0.52
24:BA:1082:U:O5'	24:BA:1082:U:H6	1.92	0.52
24:BA:1101:U:H2'	24:BA:1102:C:H6	1.73	0.52
24:BA:1028:A:N6	24:BA:1126:A:C8	2.73	0.52
24:BA:1520:U:C6	24:BA:1520:U:C3'	2.92	0.52
24:BA:1746:G:C6	24:BA:1747:G:C5	2.97	0.52
24:BA:1784:A:C4'	24:BA:1785:A:C8	2.92	0.52
24:BA:1818:U:C5	27:BD:156:ALA:HB3	2.42	0.52
24:BA:1818:U:OP1	27:BD:158:ALA:HA	2.08	0.52
24:BA:1913:A:N3	24:BA:1916:A:H2	2.07	0.52
24:BA:1949:G:C5	24:BA:1950:G:C8	2.96	0.52
24:BA:2095:C:H2'	24:BA:2096:U:O4'	2.08	0.52
24:BA:2196:C:H2'	24:BA:2196:C:O2	2.08	0.52
24:BA:2197:U:O2'	24:BA:2198:A:N3	2.37	0.52
24:BA:2232:U:H2'	24:BA:2233:U:C5'	2.39	0.52
24:BA:2244:U:C1'	24:BA:2434:A:C6	2.89	0.52
24:BA:244:A:C6	24:BA:245:G:H1'	2.44	0.52
24:BA:2468:G:H8	24:BA:2476:A:N1	2.06	0.52
24:BA:2505:G:O6	24:BA:2576:G:C8	2.63	0.52
24:BA:2657:A:N3	24:BA:2665:A:N3	2.57	0.52
24:BA:2740:A:C6	24:BA:2764:A:C4	2.97	0.52
24:BA:2893:G:O2'	24:BA:2894:G:O4'	2.17	0.52
24:BA:422:A:N3	24:BA:422:A:C2'	2.68	0.52
24:BA:511:U:C4	24:BA:512:G:H1'	2.45	0.52
24:BA:565:C:H5''	42:BU:82:ARG:HE	1.75	0.52
24:BA:600:G:H1'	29:BF:105:VAL:HG21	1.91	0.52
24:BA:64:A:O5'	24:BA:64:A:C8	2.60	0.52
24:BA:705:A:N7	24:BA:727:A:C8	2.77	0.52
24:BA:786:C:C5'	24:BA:1780:A:H8	2.20	0.52
24:BA:817:C:O2	24:BA:839:U:C5'	2.57	0.52
24:BA:869:G:C6	24:BA:909:A:N6	2.77	0.52
24:BA:910:A:O2'	24:BA:911:A:H5'	2.09	0.52
25:BB:28:C:C6	25:BB:28:C:O5'	2.57	0.52
25:BB:43:C:H2'	25:BB:44:G:H5''	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:208:LYS:HZ3	27:BD:211:ARG:NH2	2.06	0.52
27:BD:219:PRO:C	27:BD:220:HIS:CG	2.83	0.52
27:BD:230:ASP:O	27:BD:232:PRO:N	2.41	0.52
29:BF:6:VAL:C	29:BF:18:ARG:HD2	2.30	0.52
29:BF:39:TRP:HZ3	29:BF:43:LYS:HD2	1.74	0.52
30:BG:147:ASP:O	30:BG:148:MET:CB	2.56	0.52
31:BH:164:TYR:HD2	31:BH:166:GLY:H	1.56	0.52
32:BK:32:PRO:CG	32:BK:33:ARG:N	2.53	0.52
32:BK:9:LEU:HG	32:BK:17:GLN:CD	2.29	0.52
33:BL:75:SER:OG	33:BL:130:SER:HB2	2.09	0.52
33:BL:10:LEU:HD11	33:BL:41:PHE:CE1	2.44	0.52
34:BM:66:LYS:O	34:BM:67:LEU:O	2.27	0.52
34:BM:89:LYS:H	34:BM:89:LYS:HE3	1.63	0.52
35:BN:6:THR:CA	35:BN:7:TYR:HD1	2.21	0.52
36:BO:114:ILE:HB	36:BO:131:SER:H	1.73	0.52
36:BO:114:ILE:HG23	36:BO:122:PRO:O	2.09	0.52
36:BO:123:LEU:HB3	36:BO:130:PHE:CE1	2.44	0.52
36:BO:37:GLY:O	36:BO:40:SER:HB3	2.10	0.52
36:BO:8:PRO:O	36:BO:9:ASN:O	2.27	0.52
37:BP:35:VAL:HA	37:BP:101:ARG:O	2.09	0.52
38:BQ:69:ASP:C	38:BQ:70:LEU:HD23	2.29	0.52
39:BR:8:GLU:C	39:BR:10:ARG:N	2.59	0.52
40:BS:113:LYS:O	40:BS:114:LEU:O	2.27	0.52
40:BS:23:ARG:CZ	40:BS:88:ILE:O	2.57	0.52
40:BS:57:PHE:HA	40:BS:61:PHE:HD2	1.72	0.52
40:BS:28:VAL:HG13	40:BS:92:GLY:N	2.24	0.52
41:BT:105:VAL:O	41:BT:108:GLU:CD	2.47	0.52
24:BA:1151:G:C5'	41:BT:81:HIS:NE2	2.63	0.52
42:BU:67:GLY:C	42:BU:93:GLU:O	2.47	0.52
44:BW:5:TYR:O	44:BW:7:VAL:N	2.42	0.52
45:BX:13:VAL:HA	45:BX:73:ARG:NH1	2.23	0.52
45:BX:13:VAL:HG23	45:BX:14:LEU:N	2.24	0.52
46:BY:99:TYR:CD1	46:BY:126:VAL:HG23	2.44	0.52
46:BY:105:VAL:HB	46:BY:140:ASP:CG	2.30	0.52
46:BY:78:LYS:CE	46:BY:84:GLU:OE2	2.55	0.52
26:BC:116:THR:HG23	26:BC:149:ILE:HB	1.88	0.52
26:BC:131:LEU:O	26:BC:134:ARG:HB2	2.08	0.52
26:BC:134:ARG:HD3	26:BC:136:LEU:CD1	2.38	0.52
26:BC:52:ARG:CG	26:BC:53:ARG:HG3	2.38	0.52
1:AA:132:C:O2'	1:AA:133:U:O4'	2.26	0.52
1:AA:230:G:C2	1:AA:231:G:C4	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:283:C:O2	1:AA:284:G:O4'	2.28	0.52
1:AA:29:G:H4'	1:AA:295:C:O3'	2.10	0.52
1:AA:36:C:O3'	14:AO:123:LYS:HA	2.09	0.52
1:AA:563:A:H1'	1:AA:566:G:C2'	2.39	0.52
1:AA:657:G:C6	1:AA:658:G:N7	2.76	0.52
1:AA:675:A:N1	1:AA:716:A:C2	2.77	0.52
1:AA:775:G:N3	1:AA:776:G:C8	2.77	0.52
1:AA:80:G:C2	1:AA:81:G:H1'	2.44	0.52
1:AA:889:A:OP1	1:AA:891:U:H1'	2.09	0.52
3:AB:55:U:OP1	46:BY:178:GLU:OE2	2.26	0.52
3:AC:16:U:H6	3:AC:16:U:O5'	1.91	0.52
3:AC:24:G:C4	3:AC:25:C:C5	2.98	0.52
3:AC:76:A:C3'	3:AC:76:A:C8	2.93	0.52
4:AE:142:LEU:O	4:AE:143:GLU:C	2.47	0.52
4:AE:186:ALA:O	4:AE:201:ILE:HD13	2.09	0.52
4:AE:208:ILE:HD12	4:AE:239:VAL:HG11	1.90	0.52
4:AE:61:LEU:HD23	4:AE:62:ALA:H	1.72	0.52
5:AF:14:ILE:CG2	5:AF:179:ARG:HA	2.30	0.52
6:AG:187:ARG:O	6:AG:188:LEU:C	2.48	0.52
6:AG:30:LYS:CA	6:AG:34:GLU:HB3	2.39	0.52
7:AH:56:GLN:CD	7:AH:56:GLN:H	2.12	0.52
7:AH:60:TYR:HD1	7:AH:64:ARG:HD2	1.73	0.52
11:AL:79:LEU:HD22	11:AL:101:PHE:HD2	1.74	0.52
11:AL:50:LEU:HD23	11:AL:50:LEU:C	2.29	0.52
11:AL:50:LEU:CD2	11:AL:51:ARG:NH1	2.72	0.52
12:AM:24:VAL:O	12:AM:28:ARG:HG3	2.09	0.52
15:AP:22:ILE:HB	15:AP:25:ILE:HD11	1.90	0.52
19:AT:29:HIS:CG	19:AT:30:PRO:HD2	2.45	0.52
19:AT:65:ILE:O	19:AT:69:LYS:O	2.27	0.52
20:AU:61:LYS:HB3	20:AU:62:GLU:OE1	2.09	0.52
21:AV:15:LEU:HD12	21:AV:44:MET:CE	2.39	0.52
22:AW:33:ILE:HD11	22:AW:62:LEU:O	2.10	0.52
24:BA:1363:C:H42	50:B3:2:LYS:HE2	1.63	0.52
51:B4:21:SER:C	51:B4:23:HIS:N	2.59	0.52
43:BV:19:LEU:CB	51:B4:25:LEU:HD13	2.14	0.52
53:B6:11:LYS:HD2	53:B6:15:THR:HG23	1.90	0.52
54:B7:27:THR:H	54:B7:44:LYS:HZ1	1.56	0.52
24:BA:1023:U:C2	24:BA:1024:G:H4'	2.44	0.52
24:BA:1044:G:H22	24:BA:1111:A:H4'	1.69	0.52
24:BA:1137:G:C5	24:BA:1138:G:H1'	2.45	0.52
24:BA:1013:C:P	24:BA:1142:U:O2	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1194:A:C6	24:BA:1195:G:N7	2.78	0.52
24:BA:1250:G:C4'	41:BT:6:THR:HG21	2.39	0.52
24:BA:1466:G:HO2'	24:BA:1547:C:N4	2.08	0.52
24:BA:1524:G:C5	24:BA:1525:G:N7	2.77	0.52
24:BA:1753:G:C8	24:BA:1753:G:H3'	2.43	0.52
24:BA:1789:A:C8	24:BA:1790:C:C5	2.97	0.52
24:BA:1812:A:C4	24:BA:1813:G:C8	2.97	0.52
24:BA:1819:A:O2'	24:BA:1820:U:H5'	2.09	0.52
24:BA:1861:G:H2'	24:BA:1862:G:C5'	2.39	0.52
24:BA:1889:A:N1	24:BA:1890:A:C6	2.78	0.52
24:BA:1944:U:H1'	24:BA:1955:U:H1'	1.90	0.52
1:AA:1418:A:C2	24:BA:1959:G:H1'	2.43	0.52
24:BA:2095:C:O2'	24:BA:2096:U:H5'	2.08	0.52
24:BA:2226:C:C2	27:BD:262:ARG:NH2	2.77	0.52
24:BA:2259:G:H5'	24:BA:2427:C:C3'	2.38	0.52
24:BA:2305:A:C3'	24:BA:2306:C:H5''	2.39	0.52
24:BA:2311:A:H2	30:BG:45:GLU:CG	2.22	0.52
24:BA:2312:U:C2	24:BA:2313:C:C5	2.97	0.52
24:BA:2406:U:OP2	24:BA:2411:A:N6	2.34	0.52
24:BA:2413:G:H2'	24:BA:2414:G:O4'	2.09	0.52
24:BA:2431:U:O2'	24:BA:2432:A:H8	1.92	0.52
24:BA:2459:A:N3	24:BA:2460:U:C2'	2.72	0.52
24:BA:247:G:H1	54:B7:11:LYS:NZ	2.07	0.52
24:BA:2497:A:H1'	24:BA:2498:C:C4	2.44	0.52
24:BA:2588:G:N1	24:BA:2607:G:C6	2.77	0.52
24:BA:2649:U:O2'	24:BA:2650:U:H5'	2.08	0.52
24:BA:2717:G:O2'	24:BA:2718:G:O5'	2.16	0.52
24:BA:2718:G:C6	24:BA:2719:G:C5	2.97	0.52
24:BA:2753:A:N3	24:BA:2753:A:H2'	2.25	0.52
24:BA:2771:C:C2	24:BA:2772:C:C5	2.97	0.52
24:BA:2773:C:H2'	24:BA:2774:C:C6	2.44	0.52
24:BA:2815:C:H4'	51:B4:42:PRO:CG	2.36	0.52
24:BA:506:G:C2'	24:BA:507:A:OP2	2.57	0.52
24:BA:556:G:C2'	24:BA:557:U:O5'	2.57	0.52
24:BA:563:G:N2	24:BA:564:C:N3	2.57	0.52
24:BA:595:C:C2	24:BA:596:G:C8	2.98	0.52
24:BA:602:G:O2'	24:BA:603:A:OP2	2.24	0.52
24:BA:712:G:C4	24:BA:713:G:C8	2.97	0.52
24:BA:818:G:C2'	24:BA:819:A:H5''	2.39	0.52
24:BA:837:C:O2'	24:BA:838:C:H5'	2.08	0.52
24:BA:880:G:H2'	24:BA:881:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:886:C:H5''	24:BA:887:A:H5'	1.91	0.52
24:BA:954:G:C2'	24:BA:955:C:H5'	2.39	0.52
25:BB:65:C:C2	25:BB:108:C:N4	2.77	0.52
27:BD:106:ILE:HG13	27:BD:108:PRO:CD	2.37	0.52
27:BD:208:LYS:O	27:BD:211:ARG:HB2	2.09	0.52
28:BE:176:ILE:HD13	28:BE:176:ILE:O	2.08	0.52
28:BE:185:LYS:O	28:BE:185:LYS:HD3	2.09	0.52
28:BE:109:LYS:H	28:BE:191:PRO:HD3	1.74	0.52
28:BE:36:ARG:HB3	28:BE:41:LYS:CB	2.38	0.52
28:BE:4:ILE:O	28:BE:4:ILE:CG1	2.55	0.52
24:BA:2787:C:O2'	28:BE:61:ARG:NH2	2.42	0.52
24:BA:320:A:H3'	29:BF:136:THR:OG1	2.09	0.52
29:BF:53:THR:C	29:BF:55:GLY:H	2.12	0.52
30:BG:148:MET:HB3	30:BG:151:ALA:CB	2.39	0.52
30:BG:19:LEU:HA	30:BG:22:ARG:CG	2.38	0.52
33:BL:112:MET:SD	33:BL:115:LEU:CD1	2.97	0.52
33:BL:65:PHE:CD1	33:BL:65:PHE:O	2.62	0.52
35:BN:2:ILE:HB	35:BN:32:TYR:HA	1.91	0.52
24:BA:2415:G:C5'	36:BO:61:ARG:HD2	2.37	0.52
36:BO:72:PRO:O	36:BO:111:ARG:CB	2.56	0.52
37:BP:44:ALA:N	37:BP:94:VAL:HB	2.24	0.52
38:BQ:25:ALA:CA	38:BQ:48:VAL:HG22	2.39	0.52
38:BQ:57:ARG:HE	38:BQ:62:ALA:CB	2.17	0.52
38:BQ:26:LYS:HE2	38:BQ:70:LEU:CB	2.39	0.52
39:BR:26:LEU:HD21	39:BR:37:ALA:C	2.30	0.52
39:BR:13:ARG:NH2	39:BR:90:GLY:O	2.43	0.52
35:BN:106:LEU:HD21	40:BS:38:ASN:ND2	2.25	0.52
40:BS:30:VAL:O	40:BS:49:VAL:HA	2.09	0.52
42:BU:59:ALA:O	42:BU:60:GLU:OE2	2.26	0.52
42:BU:79:VAL:CB	42:BU:81:TYR:HD1	2.23	0.52
24:BA:1266:G:O4'	43:BV:15:ARG:NH2	2.43	0.52
45:BX:98:VAL:O	45:BX:99:CYS:C	2.47	0.52
46:BY:149:SER:OG	46:BY:173:ALA:HB2	2.10	0.52
46:BY:43:GLU:N	46:BY:43:GLU:CD	2.51	0.52
47:BZ:40:GLN:O	47:BZ:57:PHE:HB3	2.09	0.52
32:BK:111:PRO:O	32:BK:114:LEU:HG	2.09	0.52
24:BA:2136:C:H2'	24:BA:2137:C:O4'	2.09	0.52
26:BC:78:ALA:C	26:BC:79:LYS:HG3	2.30	0.52
26:BC:97:GLU:HG2	26:BC:122:ALA:CB	2.34	0.52
14:AO:43:VAL:CG1	14:AO:44:THR:N	2.72	0.52
2:A1:37:U:H6	2:A1:37:U:O5'	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1005:A:C6	1:AA:1026:G:N2	2.76	0.52
1:AA:1056:U:H5'	5:AF:163:ALA:HB3	1.90	0.52
1:AA:1113:C:C2	1:AA:1114:C:C5	2.97	0.52
1:AA:1157:A:C6	1:AA:1180:A:C5	2.97	0.52
1:AA:1215:G:N2	1:AA:1216:G:C8	2.78	0.52
1:AA:1238:A:N7	1:AA:1301:U:O4	2.41	0.52
1:AA:1251:A:N6	1:AA:1285:A:H2	2.06	0.52
1:AA:1252:A:C5	1:AA:1253:G:C8	2.98	0.52
1:AA:1263:C:O2'	1:AA:1264:C:H5'	2.09	0.52
1:AA:1321:C:C6	1:AA:1321:C:H3'	2.44	0.52
1:AA:976:G:C2	1:AA:1362:C:C2	2.96	0.52
1:AA:1376:U:C2	1:AA:1377:A:N7	2.77	0.52
1:AA:14:U:C6	1:AA:16:A:OP2	2.62	0.52
1:AA:1520:G:O2'	1:AA:1521:G:H8	1.92	0.52
1:AA:250:A:N3	1:AA:252:U:N3	2.57	0.52
1:AA:320:C:O2'	1:AA:321:A:H5'	2.10	0.52
1:AA:386:C:C4	1:AA:387:U:C5	2.98	0.52
1:AA:620:C:C6	1:AA:621:A:C8	2.98	0.52
1:AA:657:G:O2'	1:AA:658:G:H5'	2.09	0.52
1:AA:671:G:C2	1:AA:672:U:C2	2.98	0.52
1:AA:857:C:C2	1:AA:858:G:C1'	2.92	0.52
1:AA:899:C:H2'	1:AA:900:A:O4'	2.09	0.52
1:AA:944:G:H2'	1:AA:945:G:H5''	1.89	0.52
1:AA:960:U:N3	1:AA:1225:A:C5	2.75	0.52
3:AB:26:A:OP1	3:AB:27:G:OP2	2.27	0.52
3:AC:11:C:C2	3:AC:12:U:C5	2.97	0.52
4:AE:166:ASP:O	4:AE:169:LYS:HD3	2.09	0.52
4:AE:35:GLU:O	4:AE:36:ARG:NH2	2.43	0.52
4:AE:42:ILE:HG23	4:AE:43:ASP:N	2.24	0.52
5:AF:177:THR:O	5:AF:179:ARG:N	2.42	0.52
5:AF:52:LEU:CA	5:AF:70:VAL:HG22	2.27	0.52
6:AG:170:VAL:H	6:AG:176:LEU:CD2	2.16	0.52
7:AH:20:GLN:CD	7:AH:21:ALA:N	2.62	0.52
1:AA:923:A:OP1	7:AH:21:ALA:CB	2.55	0.52
9:AJ:56:GLN:CD	9:AJ:56:GLN:H	2.12	0.52
11:AL:7:THR:O	11:AL:83:ARG:NH1	2.42	0.52
12:AM:89:ASP:C	12:AM:90:LEU:HG	2.29	0.52
13:AN:29:ILE:O	13:AN:29:ILE:HG13	2.10	0.52
14:AO:69:TYR:O	14:AO:100:ILE:CD1	2.57	0.52
14:AO:82:VAL:O	14:AO:83:VAL:HB	2.09	0.52
14:AO:90:VAL:O	14:AO:90:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:952:U:H1'	15:AP:126:LYS:O	2.09	0.52
15:AP:27:LYS:O	15:AP:29:ARG:N	2.39	0.52
15:AP:87:TYR:C	15:AP:87:TYR:CD2	2.81	0.52
17:AR:26:GLU:CA	17:AR:26:GLU:OE2	2.56	0.52
17:AR:64:ARG:O	17:AR:67:LEU:HB2	2.09	0.52
17:AR:79:ARG:HG2	17:AR:82:ILE:HD12	1.91	0.52
18:AS:14:ASN:HA	18:AS:42:ARG:NH2	2.25	0.52
19:AT:20:THR:C	19:AT:21:VAL:HG13	2.30	0.52
19:AT:66:SER:HB3	19:AT:69:LYS:HB3	1.91	0.52
21:AV:44:MET:O	21:AV:62:ILE:HG21	2.08	0.52
48:B1:54:ARG:O	48:B1:57:THR:N	2.42	0.52
49:B2:19:GLN:HE22	49:B2:50:VAL:HA	1.73	0.52
50:B3:20:ASN:HB2	50:B3:30:GLU:CG	2.39	0.52
50:B3:21:VAL:O	50:B3:22:ILE:HB	2.09	0.52
24:BA:397:G:OP1	50:B3:40:HIS:C	2.48	0.52
52:B5:38:LYS:HD3	52:B5:38:LYS:C	2.30	0.52
52:B5:50:ARG:CZ	52:B5:52:VAL:CG2	2.83	0.52
54:B7:20:GLY:C	54:B7:21:LYS:HG3	2.29	0.52
24:BA:1085:A:O2'	24:BA:1086:A:P	2.68	0.52
24:BA:1142(A):A:N3	24:BA:1143:A:H5''	2.24	0.52
24:BA:1227:A:C8	24:BA:1228:G:H5''	2.45	0.52
24:BA:1227:A:H3'	24:BA:1228:G:H5''	1.92	0.52
24:BA:1242:A:H3'	24:BA:1243:G:C8	2.45	0.52
24:BA:1243:G:C2	24:BA:1244:G:C4	2.98	0.52
24:BA:1326:U:O2	24:BA:1326:U:H2'	2.09	0.52
24:BA:1315:C:O2	24:BA:1392:A:C2	2.62	0.52
24:BA:1449(A):G:C6	24:BA:1450:C:N4	2.78	0.52
24:BA:1451:C:H2'	24:BA:1457:A:C6	2.43	0.52
24:BA:1472:A:N7	24:BA:1474:C:N4	2.56	0.52
24:BA:1608:A:C4'	24:BA:1609:A:OP1	2.56	0.52
24:BA:1655:A:C3'	24:BA:1656:C:H6	2.22	0.52
24:BA:1670:C:O2'	24:BA:1671:U:H5'	2.09	0.52
24:BA:1672:C:C2'	24:BA:1673:U:H5''	2.38	0.52
24:BA:1712:C:C2'	24:BA:1716:U:H6	2.22	0.52
24:BA:1832:C:H2'	24:BA:1833:U:C5'	2.37	0.52
24:BA:2004:G:C8	24:BA:2005:A:C8	2.97	0.52
24:BA:2057:A:H2'	24:BA:2058:A:C8	2.38	0.52
24:BA:2069:G:O2'	24:BA:2070:G:H5'	2.10	0.52
24:BA:2078:C:H2'	24:BA:2079:U:C6	2.44	0.52
24:BA:2205:C:H2'	24:BA:2206:C:H6	1.74	0.52
24:BA:2311:A:C2	30:BG:45:GLU:CD	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2376:A:C2	24:BA:2377:A:H1'	2.44	0.52
24:BA:2468:G:O2'	24:BA:2469:A:H8	1.93	0.52
24:BA:2481:G:HO2'	24:BA:2482:G:H8	1.57	0.52
24:BA:253:C:O2'	24:BA:254:G:H5'	2.09	0.52
24:BA:265:A:C6	24:BA:428:A:N7	2.76	0.52
24:BA:2688:U:O2'	24:BA:2689:U:OP2	2.25	0.52
24:BA:1462:C:H4'	24:BA:2703:C:OP1	2.10	0.52
24:BA:2720:U:H3'	24:BA:2721:A:H8	1.73	0.52
24:BA:278:A:N7	24:BA:359:A:C2	2.77	0.52
24:BA:2821:A:H3'	24:BA:2821:A:P	2.49	0.52
24:BA:2833:G:OP1	24:BA:2833:G:O4'	2.28	0.52
24:BA:2849:U:C2'	24:BA:2850:A:OP2	2.57	0.52
24:BA:306:U:O4	24:BA:310:A:N7	2.43	0.52
24:BA:360:G:H2'	24:BA:361:G:C4'	2.38	0.52
24:BA:428:A:H5'	24:BA:429:A:OP2	2.09	0.52
24:BA:464:U:N3	24:BA:465:G:C6	2.78	0.52
24:BA:502:A:C3'	24:BA:502:A:C8	2.92	0.52
24:BA:636:G:C4'	24:BA:638:G:O2'	2.56	0.52
24:BA:629:G:H5'	24:BA:649:G:H21	1.75	0.52
24:BA:5:A:C4	24:BA:6:A:C8	2.97	0.52
24:BA:714:U:C2'	24:BA:715:G:C8	2.88	0.52
24:BA:788:A:H4'	24:BA:789:A:O5'	2.09	0.52
24:BA:942:G:H1'	24:BA:1189:A:C2	2.44	0.52
24:BA:945:A:C2'	24:BA:946:G:O5'	2.56	0.52
25:BB:104:A:O2'	46:BY:29:TYR:OH	2.19	0.52
25:BB:11:C:H3'	47:BZ:74:ARG:NH1	2.24	0.52
25:BB:24:G:O5'	25:BB:24:G:C8	2.62	0.52
25:BB:32:C:C2'	25:BB:33:G:H8	2.22	0.52
27:BD:144:ALA:O	27:BD:145:VAL:O	2.27	0.52
27:BD:223:GLY:C	27:BD:225:ALA:H	2.13	0.52
27:BD:33:LEU:HD12	27:BD:61:LEU:HD21	1.91	0.52
27:BD:79:VAL:HB	27:BD:114:GLY:H	1.73	0.52
28:BE:152:LYS:HE2	34:BM:77:GLY:O	2.08	0.52
28:BE:49:LEU:CD1	28:BE:50:GLY:N	2.73	0.52
28:BE:27:LEU:CD1	28:BE:76:ARG:HH12	2.21	0.52
29:BF:153:SER:OG	29:BF:190:GLU:CG	2.56	0.52
29:BF:157:VAL:O	29:BF:158:THR:HB	2.07	0.52
29:BF:80:ALA:HB3	29:BF:83:PHE:CE2	2.44	0.52
30:BG:114:ILE:O	30:BG:117:PHE:HB2	2.09	0.52
30:BG:26:GLN:HE22	30:BG:31:VAL:HG22	1.74	0.52
30:BG:34:LEU:HD12	30:BG:34:LEU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:149:ARG:HD3	31:BH:153:LYS:HE3	1.91	0.52
31:BH:156:ALA:HA	31:BH:171:LEU:HD22	1.92	0.52
33:BL:115:LEU:HD12	33:BL:118:THR:HG22	1.91	0.52
33:BL:131:ALA:HB1	33:BL:136:VAL:CB	2.39	0.52
33:BL:18:THR:N	33:BL:38:VAL:HG21	2.25	0.52
33:BL:24:GLY:HA2	33:BL:34:ILE:HG23	1.90	0.52
33:BL:10:LEU:HD11	33:BL:41:PHE:HZ	1.70	0.52
34:BM:73:THR:OG1	34:BM:83:LYS:HD3	2.09	0.52
35:BN:68:GLU:HG2	35:BN:76:ALA:CA	2.39	0.52
36:BO:16:ARG:HG2	36:BO:19:VAL:CG1	2.39	0.52
36:BO:49:ARG:HH22	54:B7:55:ALA:HB2	1.74	0.52
37:BP:74:TYR:H	37:BP:74:TYR:HD2	1.54	0.52
39:BR:35:ILE:O	39:BR:36:TYR:CB	2.58	0.52
40:BS:64:ARG:NH1	40:BS:78:LEU:H	2.07	0.52
24:BA:1152:C:O4'	41:BT:77:SER:HA	2.09	0.52
44:BW:12:VAL:HB	44:BW:27:THR:C	2.29	0.52
45:BX:35:TYR:CD1	45:BX:64:GLU:O	2.62	0.52
46:BY:98:MET:HE2	46:BY:100:VAL:CG1	2.40	0.52
46:BY:100:VAL:O	46:BY:124:ILE:CG2	2.56	0.52
46:BY:5:LEU:HB2	46:BY:23:LYS:NZ	2.24	0.52
46:BY:68:PRO:HB2	46:BY:131:ARG:HH12	1.75	0.52
47:BZ:26:TYR:O	47:BZ:29:GLN:OE1	2.27	0.52
24:BA:2166:G:H2'	24:BA:2167:U:C6	2.43	0.52
26:BC:29:VAL:CG1	26:BC:30:LYS:N	2.71	0.52
26:BC:59:ARG:HH11	26:BC:59:ARG:CB	2.23	0.52
1:AA:160:A:C2	1:AA:343:U:H1'	2.45	0.52
14:AO:16:GLU:OE1	14:AO:17:LYS:O	2.27	0.52
20:AU:83:GLU:O	20:AU:84:LYS:C	2.47	0.52
1:AA:1083:U:H3'	1:AA:1084:G:H8	1.74	0.52
1:AA:1192:C:N4	1:AA:1193:G:N7	2.57	0.52
1:AA:1262:C:C2	1:AA:1263:C:C5	2.98	0.52
1:AA:261:U:C4	1:AA:264:U:OP2	2.62	0.52
1:AA:286:G:H2'	1:AA:287:U:H6	1.73	0.52
1:AA:321:A:C2	1:AA:322:C:C4	2.98	0.52
1:AA:321:A:C6	1:AA:322:C:N4	2.78	0.52
1:AA:587:G:H4'	10:AK:3:THR:O	2.09	0.52
1:AA:591:U:H2'	1:AA:592:G:H8	1.72	0.52
1:AA:587:G:C2	1:AA:755:G:C5	2.98	0.52
1:AA:758:G:H2'	1:AA:759:A:OP2	2.10	0.52
1:AA:811:C:H3'	1:AA:811:C:C6	2.43	0.52
1:AA:828:A:C2'	1:AA:829:G:O5'	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:857:C:N3	1:AA:858:G:H1'	2.25	0.52
1:AA:918:A:H2'	1:AA:919:A:H8	1.69	0.52
1:AA:953:G:O2'	1:AA:954:G:H5'	2.09	0.52
1:AA:993:G:C6	1:AA:1046:A:C6	2.97	0.52
3:AC:2:C:H6	3:AC:2:C:O5'	1.92	0.52
5:AF:136:GLN:O	5:AF:137:ALA:C	2.47	0.52
5:AF:110:ASN:HD21	5:AF:140:ARG:CD	2.22	0.52
6:AG:168:ARG:CD	6:AG:168:ARG:N	2.69	0.52
7:AH:117:ASP:O	7:AH:118:ILE:HG13	2.09	0.52
7:AH:57:LYS:O	7:AH:58:ALA:C	2.48	0.52
7:AH:9:LYS:HB2	7:AH:33:VAL:CB	2.32	0.52
8:AI:41:GLU:HG2	8:AI:42:GLU:N	2.24	0.52
9:AJ:150:ALA:HB2	13:AN:59:TYR:CD2	2.45	0.52
9:AJ:69:VAL:CB	9:AJ:135:VAL:HG22	2.39	0.52
10:AK:49:GLU:OE1	10:AK:49:GLU:O	2.28	0.52
11:AL:106:ALA:O	11:AL:107:ARG:CG	2.53	0.52
11:AL:115:GLY:C	11:AL:117:HIS:H	2.13	0.52
12:AM:79:ARG:HD3	12:AM:80:LYS:N	2.24	0.52
12:AM:87:THR:O	12:AM:87:THR:HG22	2.09	0.52
13:AN:57:THR:OG1	13:AN:59:TYR:CB	2.57	0.52
13:AN:64:ALA:O	13:AN:65:ALA:C	2.47	0.52
13:AN:66:LEU:C	13:AN:70:LYS:HZ2	2.13	0.52
1:AA:551:U:O2'	14:AO:86:ARG:HD2	2.09	0.52
15:AP:91:ARG:O	15:AP:96:LEU:HD23	2.09	0.52
17:AR:70:LEU:CG	17:AR:78:TYR:CD1	2.88	0.52
22:AW:55:ILE:C	22:AW:57:ARG:N	2.60	0.52
48:B1:16:LEU:CD2	48:B1:58:VAL:HG22	2.39	0.52
24:BA:931:G:H21	49:B2:24:LYS:C	2.13	0.52
49:B2:26:LEU:CG	49:B2:35:ARG:HH11	2.22	0.52
51:B4:10:LYS:HD2	51:B4:15:ARG:NH1	2.24	0.52
24:BA:458:G:N7	53:B6:38:GLY:HA2	2.24	0.52
54:B7:25:MET:C	54:B7:27:THR:N	2.58	0.52
54:B7:29:LYS:O	54:B7:30:ARG:O	2.26	0.52
55:B8:10:ILE:C	55:B8:12:ASP:H	2.08	0.52
55:B8:9:ARG:C	55:B8:10:ILE:CG1	2.78	0.52
24:BA:1061:U:C4'	24:BA:1070:A:HO2'	2.23	0.52
24:BA:1072:C:OP2	24:BA:1073:A:OP1	2.26	0.52
24:BA:1085:A:H5''	24:BA:1104:C:O2'	2.09	0.52
24:BA:1100:C:C2'	24:BA:1101:U:OP1	2.58	0.52
24:BA:1249:U:C4	36:BO:21:ARG:CZ	2.92	0.52
24:BA:1290:C:C2	24:BA:1291:C:C5	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1363:C:C2	24:BA:1369:G:N1	2.78	0.52
24:BA:1378:A:O2'	24:BA:1379:A:P	2.67	0.52
24:BA:149:A:C2'	24:BA:150:C:H5'	2.37	0.52
24:BA:1528:A:N7	24:BA:1529:A:C6	2.78	0.52
24:BA:1754:C:H2'	24:BA:1755:A:C1'	2.38	0.52
24:BA:1912:A:C2	24:BA:1919:A:N3	2.77	0.52
24:BA:1954:G:C2'	24:BA:1956:U:C4	2.93	0.52
24:BA:195:A:H4'	24:BA:251:A:C4'	2.40	0.52
24:BA:1992:G:C1'	24:BA:1993:U:H5	2.19	0.52
24:BA:209:C:C6	24:BA:209:C:O5'	2.62	0.52
24:BA:2239:G:H4'	27:BD:249:PRO:HG3	1.91	0.52
24:BA:2297:C:H2'	24:BA:2298:A:H8	1.73	0.52
24:BA:2309:A:N3	24:BA:2309:A:H2'	2.24	0.52
24:BA:2385:C:C2'	24:BA:2386:C:O5'	2.58	0.52
24:BA:2393:A:H5''	36:BO:56:SER:HA	1.87	0.52
24:BA:2436:G:O2'	24:BA:2437:U:C5'	2.58	0.52
24:BA:2447:G:H3'	24:BA:2499:C:O5'	2.10	0.52
24:BA:2625:G:C2'	24:BA:2626:C:O5'	2.57	0.52
24:BA:2626:C:O2'	24:BA:2627:G:O4'	2.25	0.52
24:BA:263:C:O2	24:BA:264:C:O4'	2.27	0.52
24:BA:2648:C:H2'	24:BA:2649:U:H6	1.72	0.52
24:BA:2813:A:C2	24:BA:2888:C:C2	2.98	0.52
24:BA:281:G:C2'	24:BA:281:G:N3	2.72	0.52
24:BA:2843:G:C4	24:BA:2844:G:C8	2.97	0.52
24:BA:2854:G:C6	24:BA:2855:C:C4	2.97	0.52
24:BA:2857:G:H2'	24:BA:2858:C:C5'	2.39	0.52
24:BA:247:G:O2'	24:BA:386:G:N2	2.42	0.52
24:BA:599:G:H5'	29:BF:31:HIS:NE2	2.24	0.52
24:BA:638:G:C3'	24:BA:638:G:C8	2.91	0.52
24:BA:687:C:H4'	53:B6:4:THR:CG2	2.40	0.52
24:BA:730:C:H5'	24:BA:761:A:OP1	2.10	0.52
24:BA:736:C:C4	24:BA:737:C:C5	2.97	0.52
24:BA:71:A:H2	24:BA:73:A:N1	2.06	0.52
24:BA:809:G:O4'	24:BA:1254:A:H1'	2.10	0.52
24:BA:833:U:H2'	24:BA:834:C:C6	2.44	0.52
24:BA:957:A:N6	24:BA:959:A:C5	2.77	0.52
24:BA:969:U:O5'	24:BA:969:U:H6	1.92	0.52
27:BD:78:LYS:CG	27:BD:114:GLY:O	2.57	0.52
27:BD:8:PRO:O	27:BD:25:THR:CG2	2.58	0.52
27:BD:52:ARG:N	27:BD:52:ARG:CD	2.72	0.52
24:BA:1567:A:N1	27:BD:85:ASP:N	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:4:ILE:HG12	28:BE:30:PRO:HB3	1.91	0.52
28:BE:38:THR:HG1	28:BE:44:TYR:CB	2.23	0.52
28:BE:51:PHE:CE1	28:BE:76:ARG:N	2.77	0.52
29:BF:155:LEU:HD22	29:BF:157:VAL:CG1	2.40	0.52
30:BG:20:ILE:HD12	30:BG:28:VAL:CG1	2.40	0.52
30:BG:26:GLN:OE1	30:BG:29:TRP:CE3	2.63	0.52
30:BG:35:GLU:HA	30:BG:100:TRP:CH2	2.44	0.52
30:BG:44:GLY:CA	30:BG:72:ARG:HG2	2.39	0.52
31:BH:122:THR:HB	31:BH:134:SER:OG	2.09	0.52
31:BH:29:PRO:N	31:BH:79:VAL:O	2.43	0.52
31:BH:44:VAL:HG22	31:BH:45:VAL:N	2.23	0.52
31:BH:90:LYS:NZ	31:BH:163:TYR:CG	2.76	0.52
33:BL:106:GLU:OE1	33:BL:107:ILE:N	2.43	0.52
24:BA:1080:C:H4'	33:BL:125:ARG:O	2.10	0.52
24:BA:1076:C:C4'	33:BL:93:ARG:NH2	2.71	0.52
34:BM:115:ARG:O	34:BM:118:LYS:CB	2.52	0.52
35:BN:47:ILE:HG12	35:BN:48:PRO:O	2.09	0.52
35:BN:63:VAL:CA	35:BN:78:ARG:HD3	2.36	0.52
36:BO:113:LYS:HG2	36:BO:114:ILE:N	2.25	0.52
36:BO:97:PRO:HD3	36:BO:102:ARG:NH2	2.24	0.52
37:BP:126:PRO:O	37:BP:127:ILE:HG13	2.09	0.52
38:BQ:34:ILE:O	38:BQ:113:LEU:HA	2.10	0.52
38:BQ:67:LEU:HD23	38:BQ:76:VAL:HG22	1.91	0.52
40:BS:51:ARG:O	40:BS:66:VAL:CA	2.55	0.52
40:BS:65:LYS:CE	40:BS:75:ILE:HD13	2.39	0.52
41:BT:85:LYS:HB3	41:BT:116:ALA:O	2.10	0.52
41:BT:47:TYR:OH	42:BU:77:ALA:CA	2.57	0.52
41:BT:93:LYS:HZ3	41:BT:93:LYS:N	2.07	0.52
42:BU:7:THR:C	42:BU:9:GLY:H	2.12	0.52
43:BV:33:ARG:NE	43:BV:33:ARG:CA	2.68	0.52
46:BY:116:VAL:CG2	46:BY:145:GLU:CG	2.88	0.52
46:BY:19:ARG:HE	46:BY:24:LEU:CD2	2.22	0.52
26:BC:100:ILE:HG12	26:BC:127:LEU:HD12	1.91	0.52
33:BL:14:ALA:CB	33:BL:53:VAL:HG21	2.40	0.52
2:A1:51:U:O2'	2:A1:52:U:C5'	2.57	0.52
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.10	0.52
1:AA:1232:U:OP1	11:AL:126:SER:HB2	2.10	0.52
1:AA:127:G:N2	1:AA:128:G:H1'	2.24	0.52
1:AA:1326:C:O2'	1:AA:1327:C:H5'	2.08	0.52
1:AA:1361:G:N7	1:AA:1362:C:C5	2.77	0.52
1:AA:1393:U:H2'	1:AA:1394:A:OP2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1411:C:O5'	1:AA:1411:C:H6	1.92	0.52
1:AA:1422:G:N1	1:AA:1423:G:C5	2.78	0.52
1:AA:280:C:N3	19:AT:39:SER:CB	2.73	0.52
1:AA:333:G:C2	1:AA:334:C:C5	2.98	0.52
1:AA:50:A:H61	1:AA:361:G:H4'	1.70	0.52
1:AA:38:G:N2	1:AA:397:A:C8	2.75	0.52
1:AA:474:G:O2'	1:AA:475:G:H5'	2.09	0.52
1:AA:498:A:H1'	1:AA:500:G:O4'	2.09	0.52
1:AA:37:U:O2	1:AA:548:G:N1	2.43	0.52
1:AA:579:G:C4	1:AA:580:U:C6	2.98	0.52
1:AA:947:G:C2	1:AA:948:C:C6	2.97	0.52
4:AE:119:GLU:HA	4:AE:142:LEU:CD1	2.37	0.52
4:AE:136:VAL:O	4:AE:139:LYS:CG	2.56	0.52
4:AE:20:GLU:C	4:AE:39:ILE:HG13	2.30	0.52
4:AE:56:ARG:HH11	4:AE:57:PHE:N	2.07	0.52
5:AF:142:MET:HE2	5:AF:143:GLU:HA	1.92	0.52
5:AF:142:MET:HA	5:AF:146:ALA:HB3	1.92	0.52
6:AG:154:ASN:ND2	6:AG:155:LEU:CD2	2.72	0.52
6:AG:79:PHE:CG	6:AG:80:GLU:N	2.77	0.52
7:AH:107:ARG:NH1	7:AH:107:ARG:CB	2.72	0.52
7:AH:125:SER:C	7:AH:127:ASN:N	2.61	0.52
7:AH:133:TYR:HA	7:AH:136:MET:CG	2.40	0.52
7:AH:147:ASP:O	7:AH:150:ARG:HB3	2.09	0.52
8:AI:11:ASN:CB	8:AI:84:ASN:HB3	2.39	0.52
8:AI:61:LEU:HD22	8:AI:63:TYR:OH	2.09	0.52
8:AI:3:ARG:HG3	8:AI:65:VAL:C	2.28	0.52
9:AJ:146:GLU:O	9:AJ:147:ALA:C	2.47	0.52
10:AK:36:LEU:CD1	10:AK:48:TYR:HB2	2.37	0.52
10:AK:86:ILE:HG22	10:AK:87:SER:N	2.24	0.52
12:AM:41:PRO:O	12:AM:42:THR:C	2.47	0.52
13:AN:102:GLY:HA2	13:AN:105:VAL:HG23	1.90	0.52
13:AN:65:ALA:CB	13:AN:98:LEU:HD23	2.33	0.52
14:AO:35:GLY:HA3	14:AO:60:LEU:CB	2.40	0.52
17:AR:53:HIS:O	17:AR:57:LEU:CD1	2.56	0.52
17:AR:78:TYR:O	17:AR:81:LEU:HB3	2.10	0.52
18:AS:43:LYS:HE3	18:AS:48:TRP:HZ3	1.74	0.52
18:AS:52:ASP:OD1	18:AS:55:ARG:CG	2.57	0.52
18:AS:59:TRP:O	18:AS:60:LEU:C	2.47	0.52
18:AS:53:VAL:HG12	18:AS:79:VAL:HG22	1.92	0.52
19:AT:36:ILE:H	19:AT:36:ILE:HD13	1.74	0.52
22:AW:40:ALA:CB	22:AW:55:ILE:HG21	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:72:LEU:HD22	22:AW:76:ALA:C	2.30	0.52
23:AX:17:THR:O	23:AX:22:ARG:NH2	2.43	0.52
24:BA:2815:C:O2'	51:B4:42:PRO:HG3	2.10	0.52
53:B6:30:VAL:HG13	53:B6:33:ARG:NH1	2.24	0.52
54:B7:23:VAL:CG1	54:B7:24:ALA:N	2.72	0.52
24:BA:1019:U:O2	24:BA:1144:G:N2	2.42	0.52
24:BA:1010:A:O2'	24:BA:1152:C:O2	2.26	0.52
24:BA:1162:G:H4'	42:BU:23:GLU:O	2.09	0.52
24:BA:1343:G:H2'	24:BA:1384:A:H2	1.74	0.52
24:BA:1475:G:N7	24:BA:1517:G:C2	2.77	0.52
24:BA:1531:C:H2'	24:BA:1532:C:H5	1.68	0.52
24:BA:1754:C:C5	40:BS:98:LYS:HD3	2.45	0.52
24:BA:1790:C:H4'	27:BD:213:ARG:CZ	2.40	0.52
24:BA:1809:A:H8	24:BA:1810:A:O4'	1.92	0.52
24:BA:1802:A:N6	24:BA:1822:G:H1'	2.08	0.52
24:BA:1993:U:N3	24:BA:1994:C:N4	2.56	0.52
24:BA:2000:G:O6	24:BA:2001:A:N6	2.41	0.52
24:BA:1267:U:C5	24:BA:2012:G:N2	2.75	0.52
24:BA:2331:G:C5	24:BA:2332:U:C2	2.97	0.52
24:BA:2332:U:P	47:BZ:43:THR:HB	2.50	0.52
24:BA:2343:C:O2	24:BA:2344:U:H6	1.93	0.52
24:BA:2384:G:H5''	24:BA:2386:C:OP1	2.09	0.52
24:BA:2415:G:N1	24:BA:2416:C:C4	2.78	0.52
24:BA:2055:C:C2'	24:BA:2504:U:H5'	2.33	0.52
24:BA:2512:C:C6	24:BA:2512:C:H3'	2.45	0.52
24:BA:2588:G:O6	24:BA:2589:A:N6	2.43	0.52
24:BA:2684:U:O2'	35:BN:67:LYS:CG	2.57	0.52
24:BA:2699:C:O2'	24:BA:2700:C:H5'	2.09	0.52
24:BA:2711:A:OP2	24:BA:2714:G:OP1	2.28	0.52
24:BA:2731:G:H4'	28:BE:168:MET:CE	2.38	0.52
24:BA:2815:C:N3	24:BA:2816:C:C5	2.78	0.52
24:BA:292:C:H2'	24:BA:293:U:N3	2.25	0.52
24:BA:386:G:O5'	24:BA:388:G:N2	2.43	0.52
24:BA:223:A:C4	24:BA:422:A:C8	2.97	0.52
24:BA:448:U:C2'	24:BA:448:U:O2	2.53	0.52
24:BA:507:A:O4'	24:BA:509:C:C2	2.63	0.52
24:BA:598:G:N2	24:BA:599:G:H1'	2.25	0.52
24:BA:685:A:O2'	24:BA:686:G:P	2.68	0.52
24:BA:795:C:H2'	24:BA:796:C:C6	2.45	0.52
24:BA:820:A:H2'	24:BA:820:A:N3	2.24	0.52
24:BA:844:C:OP2	24:BA:844:C:C6	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:848:G:H2'	24:BA:849:A:N7	2.23	0.52
24:BA:910:A:C5	37:BP:17:LEU:HD11	2.43	0.52
24:BA:945:A:OP1	24:BA:945:A:H4'	2.08	0.52
24:BA:950:G:C6	24:BA:951:C:N4	2.77	0.52
24:BA:957:A:C6	24:BA:959:A:C4	2.98	0.52
24:BA:979:G:C3'	24:BA:980:A:C5'	2.78	0.52
25:BB:52:A:C4'	25:BB:52:A:OP1	2.58	0.52
28:BE:127:ASP:CG	28:BE:135:HIS:H	2.12	0.52
28:BE:174:ASP:OD1	28:BE:175:VAL:N	2.43	0.52
28:BE:38:THR:HA	28:BE:42:ASP:HA	1.91	0.52
28:BE:5:LEU:O	28:BE:195:LEU:CD2	2.58	0.52
28:BE:51:PHE:HD1	28:BE:76:ARG:HG2	1.73	0.52
24:BA:2636:U:P	28:BE:79:ARG:HB3	2.48	0.52
29:BF:184:TYR:C	29:BF:186:ILE:N	2.60	0.52
30:BG:36:LYS:HG3	30:BG:160:VAL:CG2	2.40	0.52
31:BH:111:HIS:O	31:BH:112:PRO:C	2.43	0.52
31:BH:11:VAL:HG11	31:BH:17:VAL:CB	2.40	0.52
33:BL:129:GLY:N	33:BL:132:ARG:NH2	2.58	0.52
24:BA:1096:A:N1	33:BL:26:ALA:HB1	2.25	0.52
34:BM:99:LEU:HD12	34:BM:103:VAL:HG11	1.91	0.52
24:BA:2780:G:N2	34:BM:97:ARG:NH2	2.57	0.52
35:BN:19:ILE:C	35:BN:19:ILE:CD1	2.78	0.52
36:BO:105:LEU:O	36:BO:106:LEU:CG	2.53	0.52
36:BO:116:GLY:CA	36:BO:121:LYS:HB3	2.40	0.52
36:BO:114:ILE:HB	36:BO:130:PHE:HA	1.91	0.52
24:BA:907:U:H5'	37:BP:24:GLY:O	2.09	0.52
24:BA:871:U:H5''	37:BP:9:TYR:CE2	2.44	0.52
38:BQ:65:LEU:CD2	38:BQ:65:LEU:C	2.77	0.52
39:BR:20:ARG:O	39:BR:21:THR:HG23	2.10	0.52
39:BR:40:ILE:CG2	39:BR:41:ASP:N	2.72	0.52
39:BR:76:LYS:CE	39:BR:77:ALA:HB2	2.38	0.52
40:BS:56:GLY:O	40:BS:61:PHE:CB	2.57	0.52
40:BS:70:VAL:HG23	40:BS:74:ARG:HD3	1.89	0.52
41:BT:108:GLU:O	41:BT:110:VAL:N	2.43	0.52
42:BU:39:LEU:HG	42:BU:58:VAL:C	2.29	0.52
43:BV:12:ILE:HD13	43:BV:12:ILE:N	2.24	0.52
44:BW:12:VAL:HG13	44:BW:14:SER:CB	2.39	0.52
44:BW:18:TYR:HD1	44:BW:21:PHE:CE1	2.26	0.52
45:BX:13:VAL:CG2	45:BX:14:LEU:N	2.72	0.52
46:BY:151:HIS:CG	46:BY:170:THR:H	2.28	0.52
46:BY:144:LEU:C	46:BY:174:VAL:HG11	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:6:LYS:HB2	46:BY:37:VAL:HG13	1.92	0.52
47:BZ:19:LYS:HG2	47:BZ:20:ARG:N	2.21	0.52
47:BZ:44:ARG:HG2	47:BZ:77:ARG:HG3	1.91	0.52
32:BK:93:THR:CG2	32:BK:96:ASP:N	2.64	0.52
32:BK:93:THR:N	32:BK:96:ASP:OD2	2.28	0.52
3:AD:58:A:C2	3:AD:61:C:H1'	2.44	0.52
24:BA:2124:G:N1	24:BA:2173:A:N6	2.58	0.52
26:BC:19:ILE:HG23	26:BC:223:ARG:CB	2.39	0.52
48:B1:7:GLU:HA	48:B1:10:LYS:CG	2.39	0.52
1:AA:1123:A:O4'	1:AA:1123:A:OP2	2.27	0.52
2:A1:46:U:C6	2:A1:46:U:H3'	2.45	0.52
1:AA:1034:G:C2	1:AA:1035:A:C5	2.98	0.52
1:AA:1064:G:OP1	1:AA:1386:G:C5'	2.58	0.52
1:AA:1048:G:H1'	1:AA:1215:G:H5'	1.92	0.52
1:AA:1270:C:O2'	1:AA:1313:U:O2'	2.23	0.52
1:AA:1317:C:O2'	1:AA:1318:A:H5'	2.10	0.52
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.41	0.52
1:AA:178:C:H2'	1:AA:179:A:H8	1.73	0.52
1:AA:186(B):C:C2'	1:AA:186(C):G:H5'	2.39	0.52
1:AA:186(C):G:C6	1:AA:186(D):C:C4	2.97	0.52
1:AA:20:U:H6	1:AA:916:G:N2	2.08	0.52
1:AA:216:G:H2'	1:AA:217:C:C6	2.44	0.52
1:AA:226:G:C2	1:AA:227:G:C4	2.97	0.52
1:AA:314:C:O3'	1:AA:315:A:O4'	2.27	0.52
1:AA:598:U:C2	1:AA:599:C:C6	2.97	0.52
1:AA:640:A:H2'	1:AA:641:U:C4'	2.40	0.52
1:AA:595:G:H8	1:AA:641:U:O4	1.93	0.52
1:AA:739:C:O2	1:AA:739:C:H2'	2.10	0.52
1:AA:790:A:C2'	1:AA:791:G:O5'	2.57	0.52
1:AA:817:C:C6	1:AA:819:A:H4'	2.44	0.52
1:AA:915:A:O2'	1:AA:916:G:H5'	2.08	0.52
1:AA:948:C:H2'	1:AA:949:A:C8	2.42	0.52
1:AA:973:G:N1	1:AA:974:A:C5	2.78	0.52
3:AC:53:G:N2	3:AC:62:C:C2	2.77	0.52
3:AC:56:C:O2	30:BG:82:LEU:HD13	2.10	0.52
4:AE:105:PHE:C	4:AE:107:THR:N	2.62	0.52
4:AE:217:ARG:O	4:AE:220:ASP:CB	2.52	0.52
4:AE:47:THR:CG2	4:AE:51:LEU:HD21	2.37	0.52
4:AE:80:ILE:HD11	4:AE:212:GLN:HG2	1.92	0.52
5:AF:14:ILE:HG22	5:AF:15:THR:HG22	1.92	0.52
6:AG:137:SER:O	6:AG:138:TYR:C	2.47	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:16:GLY:O	6:AG:17:VAL:C	2.48	0.52
7:AH:34:VAL:O	7:AH:41:VAL:HA	2.09	0.52
9:AJ:87:VAL:HB	9:AJ:156:TRP:CZ3	2.45	0.52
7:AH:78:HIS:CG	10:AK:104:ARG:HD3	2.43	0.52
10:AK:14:ARG:HH11	10:AK:14:ARG:N	2.08	0.52
10:AK:9:MET:O	10:AK:10:LEU:C	2.48	0.52
1:AA:779:C:H4'	13:AN:120:ARG:O	2.10	0.52
14:AO:28:LYS:NZ	14:AO:33:ARG:NH2	2.41	0.52
14:AO:57:LYS:CG	14:AO:67:THR:HG22	2.28	0.52
1:AA:1227:A:H4'	15:AP:115:LYS:NZ	2.25	0.52
5:AF:29:TYR:HB3	16:AQ:36:PHE:CE1	2.45	0.52
20:AU:31:LEU:HD21	20:AU:62:GLU:OE2	2.10	0.52
20:AU:20:ALA:HB1	20:AU:55:ARG:NH2	2.24	0.52
48:B1:27:LEU:C	48:B1:30:LEU:HG	2.29	0.52
24:BA:95:G:P	48:B1:39:LEU:HB3	2.48	0.52
50:B3:15:ILE:HG13	50:B3:36:CYS:SG	2.50	0.52
50:B3:57:GLU:CA	50:B3:61:ARG:HG3	2.40	0.52
50:B3:57:GLU:O	50:B3:61:ARG:HG3	2.07	0.52
51:B4:51:TYR:C	51:B4:51:TYR:HD2	2.11	0.52
54:B7:60:LEU:O	54:B7:63:PRO:HD3	2.09	0.52
24:BA:1163:G:O2'	24:BA:1164:G:H5'	2.08	0.52
24:BA:1222:C:H2'	24:BA:1223:C:C5'	2.39	0.52
24:BA:1338:G:O2'	44:BW:16:LYS:HD3	2.08	0.52
24:BA:1365:A:C8	24:BA:1366:A:N7	2.77	0.52
24:BA:1381:G:C5	24:BA:1382:G:C5	2.98	0.52
24:BA:1496:A:N3	24:BA:1498:C:N4	2.50	0.52
24:BA:1534:G:H3'	24:BA:1534:G:C8	2.45	0.52
24:BA:1538:G:N1	24:BA:1539:G:C2	2.77	0.52
24:BA:1660:C:O2'	24:BA:1661:G:H5'	2.09	0.52
24:BA:1693:U:O2	24:BA:1693:U:C2'	2.56	0.52
24:BA:1742:C:N4	24:BA:1743:G:H8	2.00	0.52
24:BA:1746:G:OP2	24:BA:1746:G:C8	2.63	0.52
24:BA:152:G:N1	24:BA:175:G:C4	2.78	0.52
24:BA:1784:A:C8	24:BA:1981:A:C4	2.97	0.52
24:BA:2045:C:O2'	51:B4:22:HIS:HB2	2.09	0.52
24:BA:2094:G:N1	24:BA:2196:C:C4	2.78	0.52
24:BA:2096:U:H2'	24:BA:2097:C:C6	2.44	0.52
24:BA:2265:U:O2	24:BA:2266:A:N7	2.41	0.52
24:BA:2309:A:H5''	24:BA:2310:A:C8	2.45	0.52
24:BA:2245:U:O2	24:BA:2435:A:H3'	2.09	0.52
24:BA:2582:G:H2'	24:BA:2583:G:H5'	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2596:U:O3'	27:BD:242:ARG:NE	2.43	0.52
24:BA:2660:A:O2'	24:BA:2661:G:H5'	2.09	0.52
24:BA:2749:A:C2	24:BA:2750:A:N6	2.77	0.52
24:BA:2845:G:O2'	24:BA:2846:G:O4'	2.23	0.52
24:BA:428:A:N3	24:BA:428:A:H2'	2.25	0.52
24:BA:534:U:OP1	41:BT:24:TYR:HE2	1.93	0.52
24:BA:564:C:H5''	42:BU:80:GLN:HA	1.90	0.52
24:BA:612:G:N2	24:BA:617:G:H1	2.07	0.52
24:BA:637:A:C2	24:BA:651:G:C4'	2.92	0.52
24:BA:714:U:O2	24:BA:717:G:N7	2.42	0.52
24:BA:945:A:C3'	24:BA:946:G:C5'	2.87	0.52
25:BB:73:A:C8	25:BB:104:A:N1	2.78	0.52
25:BB:87:G:N2	25:BB:90:C:C2	2.78	0.52
25:BB:90:C:H2'	25:BB:91:C:C6	2.44	0.52
27:BD:107:ALA:N	27:BD:108:PRO:CD	2.71	0.52
24:BA:2216:G:N3	27:BD:150:LYS:NZ	2.57	0.52
27:BD:142:VAL:HG22	27:BD:165:ILE:HD11	1.91	0.52
24:BA:781:A:H8	27:BD:220:HIS:NE2	2.07	0.52
28:BE:103:ASP:O	28:BE:104:VAL:HG23	2.10	0.52
28:BE:102:VAL:O	28:BE:170:LEU:HD23	2.09	0.52
28:BE:179:GLU:CB	28:BE:181:LEU:HD11	2.36	0.52
28:BE:200:GLU:CA	28:BE:202:LYS:HZ3	2.23	0.52
28:BE:26:ILE:HG13	28:BE:181:LEU:HD23	1.91	0.52
28:BE:55:ASN:C	28:BE:57:LYS:N	2.61	0.52
29:BF:103:LYS:HA	29:BF:106:ARG:NE	2.24	0.52
29:BF:56:GLU:O	29:BF:60:SER:N	2.43	0.52
30:BG:35:GLU:O	30:BG:160:VAL:HB	2.09	0.52
30:BG:38:VAL:CG1	30:BG:93:THR:HG23	2.40	0.52
30:BG:85:GLY:O	30:BG:86:MET:HB2	2.09	0.52
31:BH:23:ARG:NH2	31:BH:36:PRO:N	2.57	0.52
31:BH:35:VAL:CG1	31:BH:75:ALA:HB2	2.39	0.52
31:BH:69:ARG:O	31:BH:73:ALA:HB2	2.10	0.52
32:BK:31:LEU:N	32:BK:32:PRO:HD2	2.24	0.52
34:BM:34:LEU:CA	34:BM:49:GLY:HA2	2.39	0.52
34:BM:58:ASP:HB3	34:BM:124:ALA:HB1	1.90	0.52
35:BN:12:ASP:O	35:BN:94:ARG:HD2	2.09	0.52
36:BO:127:ALA:O	36:BO:147:LEU:HD13	2.09	0.52
37:BP:122:GLY:HA2	37:BP:125:LEU:CD1	2.39	0.52
39:BR:30:ARG:HD2	39:BR:91:PRO:HB2	1.91	0.52
39:BR:78:LEU:O	39:BR:78:LEU:HD22	2.10	0.52
39:BR:95:HIS:HA	39:BR:99:LYS:CD	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:101:PHE:C	40:BS:103:ARG:H	2.12	0.52
40:BS:104:ASN:HA	40:BS:108:ARG:HH12	1.74	0.52
24:BA:2876:G:C5'	40:BS:1:MET:N	2.73	0.52
40:BS:17:THR:HG21	40:BS:20:PRO:CA	2.40	0.52
41:BT:55:ARG:HB3	41:BT:58:ARG:NE	2.15	0.52
42:BU:36:PRO:HB3	42:BU:61:VAL:CG2	2.39	0.52
41:BT:47:TYR:CE1	42:BU:77:ALA:HA	2.45	0.52
43:BV:8:ARG:C	43:BV:102:HIS:HD2	2.13	0.52
44:BW:58:HIS:CE1	44:BW:77:LYS:HE3	2.44	0.52
24:BA:1312:U:O5'	44:BW:62:LYS:HD2	2.09	0.52
44:BW:7:VAL:HB	48:B1:28:MET:SD	2.50	0.52
46:BY:17:ALA:CA	46:BY:20:ARG:NH2	2.72	0.52
37:BP:136:ALA:HB1	46:BY:76:LEU:CD1	2.40	0.52
47:BZ:9:SER:C	47:BZ:10:THR:O	2.41	0.52
32:BK:109:ILE:HG21	32:BK:113:ARG:CZ	2.40	0.52
32:BK:125:GLU:O	32:BK:125:GLU:OE1	2.28	0.52
3:AD:58:A:O2'	3:AD:59:U:P	2.67	0.52
26:BC:177:LYS:CB	26:BC:180:PHE:HB2	2.36	0.52
26:BC:189:ILE:HD11	26:BC:214:VAL:HG21	1.92	0.52
24:BA:1579:A:H2'	24:BA:1580:A:H4'	1.90	0.52
24:BA:438:G:O2'	24:BA:439:G:H5'	2.08	0.52
20:AU:83:GLU:OE1	20:AU:83:GLU:HA	2.09	0.52
1:AA:30:U:HO2'	1:AA:31:G:P	2.32	0.52
1:AA:1045:C:C2'	1:AA:1046:A:H8	2.19	0.52
1:AA:1155:G:H2'	1:AA:1156:G:C8	2.44	0.52
1:AA:1203:C:C2	1:AA:1204:A:C8	2.97	0.52
1:AA:1234:C:C4	1:AA:1235:U:C4	2.97	0.52
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.09	0.52
1:AA:133:U:O4	1:AA:229:U:O4	2.27	0.52
1:AA:1373:G:H5'	9:AJ:36:LYS:HB2	1.92	0.52
1:AA:1429:C:O2'	1:AA:1430:C:O5'	2.23	0.52
1:AA:1450:U:H1'	1:AA:1453:G:H1	1.75	0.52
1:AA:151:A:C5	1:AA:152:A:C2	2.97	0.52
1:AA:66:G:C5'	1:AA:173:U:O4	2.55	0.52
1:AA:355:C:C4	1:AA:356:A:N7	2.78	0.52
1:AA:46:G:C2	1:AA:366:C:C2	2.98	0.52
1:AA:382:A:H2'	1:AA:383:A:O5'	2.10	0.52
1:AA:393:A:H5'	1:AA:483:C:H4'	1.92	0.52
1:AA:581:G:C2'	1:AA:582:U:OP2	2.57	0.52
1:AA:608:A:C2	1:AA:609:A:O4'	2.62	0.52
1:AA:673:G:C2'	1:AA:674:G:C8	2.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:785:G:C6	1:AA:798:G:C6	2.98	0.52
1:AA:766:A:C8	1:AA:814:A:C6	2.97	0.52
1:AA:895:G:H2'	1:AA:896:C:H6	1.73	0.52
3:AB:12:U:C2	3:AB:24:G:N2	2.78	0.52
4:AE:72:GLY:HA2	4:AE:165:VAL:HG22	1.91	0.52
4:AE:73:THR:O	4:AE:74:LYS:C	2.48	0.52
5:AF:28:GLN:NE2	5:AF:29:TYR:H	2.08	0.52
6:AG:128:VAL:N	6:AG:146:ILE:HG22	2.24	0.52
6:AG:141:ARG:CG	6:AG:142:PRO:HD2	2.39	0.52
6:AG:61:LYS:HA	6:AG:203:VAL:CG2	2.39	0.52
6:AG:9:CYS:O	6:AG:12:CYS:HB2	2.10	0.52
7:AH:98:THR:CG2	7:AH:119:LEU:HD21	2.39	0.52
8:AI:29:ALA:O	8:AI:30:LEU:C	2.47	0.52
8:AI:40:VAL:HG22	8:AI:40:VAL:O	2.09	0.52
9:AJ:146:GLU:O	9:AJ:149:ARG:N	2.42	0.52
11:AL:4:TYR:CE1	11:AL:59:PHE:CE2	2.91	0.52
13:AN:99:GLN:HA	13:AN:105:VAL:HG13	1.91	0.52
14:AO:84:LEU:O	14:AO:100:ILE:HG22	2.10	0.52
14:AO:24:VAL:HG13	14:AO:26:ALA:N	2.23	0.52
1:AA:1226:C:C5'	15:AP:103:THR:O	2.54	0.52
16:AQ:16:PHE:O	16:AQ:17:LYS:C	2.47	0.52
1:AA:1048:G:C5'	16:AQ:3:ARG:NH1	2.68	0.52
1:AA:1216:G:OP1	16:AQ:3:ARG:NH2	2.43	0.52
18:AS:38:TYR:O	18:AS:49:LEU:HD12	2.10	0.52
19:AT:22:LEU:HD11	19:AT:39:SER:OG	2.09	0.52
19:AT:7:THR:HG23	19:AT:8:GLY:N	2.24	0.52
8:AI:46:ARG:NH2	20:AU:37:VAL:HG11	2.25	0.52
22:AW:29:LYS:O	22:AW:32:ALA:CB	2.56	0.52
48:B1:23:LYS:O	48:B1:26:GLU:CB	2.52	0.52
48:B1:59:LEU:HD11	48:B1:63:ARG:HE	1.74	0.52
49:B2:50:VAL:HG12	49:B2:51:ALA:N	2.23	0.52
50:B3:31:ILE:O	50:B3:32:TYR:CD2	2.63	0.52
24:BA:1024:G:OP2	24:BA:1025:G:N2	2.43	0.52
24:BA:1142:U:H3'	24:BA:1142(A):A:C8	2.42	0.52
24:BA:1143:A:O2'	24:BA:1144:G:H5'	2.09	0.52
24:BA:1151:G:H2'	24:BA:1152:C:C5	2.45	0.52
24:BA:1222:C:N3	24:BA:1223:C:C5	2.78	0.52
24:BA:1263:U:C5	24:BA:1265:A:N6	2.75	0.52
24:BA:1264:G:OP2	24:BA:1265:A:C2	2.63	0.52
24:BA:1360:A:C8	24:BA:1361:G:C8	2.97	0.52
24:BA:144:C:O2'	24:BA:145:G:H5'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1692:U:C1'	24:BA:1696:G:H22	2.22	0.52
24:BA:1735:C:H42	24:BA:1741:C:N4	2.05	0.52
24:BA:175:G:N2	24:BA:176:G:C1'	2.71	0.52
24:BA:1773:A:C6	24:BA:1829:A:C1'	2.88	0.52
24:BA:1782:C:C6	24:BA:1782:C:C3'	2.93	0.52
24:BA:1788:C:C6	24:BA:1788:C:C3'	2.93	0.52
24:BA:1799:G:H22	27:BD:157:ARG:NH2	2.04	0.52
24:BA:1956:U:C6	24:BA:1956:U:O5'	2.63	0.52
24:BA:2009:G:C2	24:BA:2010:G:C8	2.98	0.52
24:BA:2033:A:O2'	24:BA:2034:U:P	2.68	0.52
24:BA:2054:A:H62	24:BA:2577:A:N6	2.07	0.52
24:BA:2067:G:C6	24:BA:2069:G:N7	2.77	0.52
24:BA:19:C:N3	24:BA:20:C:C5	2.78	0.52
24:BA:215:G:H1'	24:BA:216:A:C4'	2.40	0.52
24:BA:2208:U:H1'	24:BA:2217:G:N2	2.25	0.52
24:BA:2285:C:H4'	24:BA:2288:A:N1	2.25	0.52
24:BA:2301:C:N3	24:BA:2302:G:N7	2.58	0.52
24:BA:2302:G:C6	24:BA:2315:G:C6	2.98	0.52
24:BA:2366:A:H3'	24:BA:2367:G:C8	2.45	0.52
24:BA:2460:U:H2'	24:BA:2492:U:O4	2.09	0.52
24:BA:2617:C:C2	24:BA:2618:G:C8	2.98	0.52
24:BA:2626:C:C2	24:BA:2627:G:C8	2.98	0.52
24:BA:2675:A:H2'	24:BA:2676:C:C6	2.45	0.52
24:BA:2638:G:N2	24:BA:2781:A:N6	2.57	0.52
24:BA:2784:C:C1'	28:BE:41:LYS:HZ3	2.22	0.52
24:BA:2834:G:C5	24:BA:2879:C:C4	2.97	0.52
24:BA:319:C:O2'	24:BA:320:A:O4'	2.27	0.52
24:BA:423:A:H2'	24:BA:424:G:OP1	2.10	0.52
24:BA:51:G:C5'	24:BA:52:A:OP1	2.54	0.52
24:BA:616:A:H2'	24:BA:617:G:N3	2.25	0.52
24:BA:630:G:N1	24:BA:634:C:N4	2.58	0.52
24:BA:675:A:O3'	29:BF:67:GLN:OE1	2.27	0.52
24:BA:691:C:O2'	24:BA:692:C:H5'	2.08	0.52
24:BA:702:G:C2'	24:BA:703:U:H5'	2.39	0.52
24:BA:728:G:H1'	24:BA:729:G:H8	1.75	0.52
24:BA:763:G:N3	24:BA:765:G:C1'	2.73	0.52
24:BA:855:G:H21	47:BZ:27:GLU:HB2	1.71	0.52
24:BA:878:A:C4	24:BA:879:G:C8	2.98	0.52
24:BA:962:G:C3'	24:BA:963:U:H6	2.23	0.52
25:BB:100:G:C5	25:BB:101:A:N7	2.78	0.52
25:BB:117:G:C2	25:BB:118:G:N7	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:96:HIS:CG	27:BD:102:LYS:HG2	2.44	0.52
27:BD:246:PRO:HG2	27:BD:250:TRP:HD1	1.75	0.52
27:BD:69:ARG:C	27:BD:70:TRP:CG	2.83	0.52
27:BD:7:LYS:HZ2	27:BD:91:ARG:CD	2.23	0.52
27:BD:95:LEU:C	27:BD:95:LEU:CD1	2.77	0.52
28:BE:4:ILE:HD11	28:BE:76:ARG:NH2	2.24	0.52
28:BE:97:LYS:HD2	28:BE:98:PRO:HD2	1.90	0.52
29:BF:133:ASN:HB3	29:BF:165:ARG:NH2	2.24	0.52
29:BF:63:LYS:CA	29:BF:76:GLY:O	2.53	0.52
30:BG:163:ALA:CB	30:BG:169:ALA:HA	2.25	0.52
32:BK:8:PRO:CD	32:BK:35:LEU:O	2.58	0.52
33:BL:12:LEU:CB	33:BL:19:PRO:HG3	2.32	0.52
33:BL:78:ILE:HG21	33:BL:131:ALA:HB2	1.90	0.52
24:BA:1139:G:C5'	34:BM:24:GLY:HA3	2.40	0.52
34:BM:36:GLY:C	34:BM:47:ALA:HB3	2.29	0.52
34:BM:39:ARG:CB	34:BM:48:MET:SD	2.98	0.52
36:BO:92:GLU:N	36:BO:125:VAL:HG11	2.21	0.52
36:BO:92:GLU:O	36:BO:93:GLY:C	2.47	0.52
24:BA:2484:G:H21	37:BP:124:LYS:HD2	1.75	0.52
37:BP:51:ARG:CD	37:BP:52:VAL:N	2.70	0.52
37:BP:62:GLY:CA	46:BY:177:PRO:HA	2.37	0.52
38:BQ:54:LEU:CD1	38:BQ:54:LEU:N	2.71	0.52
38:BQ:22:ARG:HG2	38:BQ:70:LEU:CD2	2.40	0.52
39:BR:26:LEU:O	39:BR:88:ASP:CB	2.53	0.52
39:BR:49:VAL:CG2	39:BR:80:LEU:HG	2.40	0.52
25:BB:50:G:O3'	39:BR:61:ASN:HA	2.10	0.52
40:BS:21:GLU:O	40:BS:23:ARG:CD	2.53	0.52
40:BS:67:SER:CB	40:BS:75:ILE:HG23	2.39	0.52
43:BV:74:ALA:HB1	43:BV:105:VAL:CA	2.40	0.52
46:BY:118:GLN:NE2	46:BY:119:GLU:C	2.63	0.52
46:BY:96:VAL:HG13	46:BY:128:VAL:CG1	2.40	0.52
46:BY:43:GLU:N	46:BY:43:GLU:OE2	2.43	0.52
47:BZ:11:ARG:NH1	47:BZ:11:ARG:HG2	2.25	0.52
47:BZ:22:GLY:O	47:BZ:38:VAL:HA	2.09	0.52
47:BZ:44:ARG:HG3	47:BZ:77:ARG:HG3	1.92	0.52
32:BK:73:GLU:HG3	32:BK:138:ILE:CD1	2.39	0.52
26:BC:93:TYR:CE1	26:BC:109:ASP:HB2	2.45	0.52
26:BC:200:LYS:HG3	26:BC:208:PHE:CE2	2.45	0.52
24:BA:182:A:O2'	24:BA:183:C:H5'	2.09	0.52
24:BA:487:C:C3'	24:BA:487:C:C6	2.93	0.52
1:AA:1032(B):G:H2'	1:AA:1033:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.75	0.52
1:AA:1248:A:HO2'	11:AL:36:TYR:HE1	1.47	0.52
1:AA:1285:A:O4'	1:AA:1286:A:N7	2.42	0.52
1:AA:1321:C:C5	1:AA:1322:C:C2'	2.93	0.52
1:AA:1323:G:C4	1:AA:1324:A:N7	2.78	0.52
1:AA:210:U:H4'	1:AA:216:G:O4'	2.10	0.52
1:AA:299:G:C2'	1:AA:300:A:C8	2.92	0.52
1:AA:375:U:H2'	1:AA:376:G:C5'	2.39	0.52
1:AA:411:A:C5	1:AA:429:U:C5	2.98	0.52
1:AA:432:A:H3'	1:AA:432:A:C8	2.44	0.52
1:AA:573:A:OP2	1:AA:574:A:OP2	2.28	0.52
1:AA:729:A:H2'	1:AA:730:G:O5'	2.10	0.52
1:AA:776:G:C5'	1:AA:777:A:OP1	2.51	0.52
1:AA:811:C:H5	1:AA:812:C:C2	2.28	0.52
1:AA:817:C:N1	1:AA:819:A:H5'	2.25	0.52
1:AA:88:C:C2'	1:AA:89:U:OP2	2.58	0.52
3:AB:16:U:OP1	3:AB:16:U:C6	2.62	0.52
3:AC:75:C:O5'	3:AC:76:A:OP2	2.27	0.52
4:AE:130:ARG:CB	4:AE:131:PRO:CD	2.88	0.52
4:AE:15:VAL:O	4:AE:16:HIS:HB2	2.08	0.52
4:AE:43:ASP:O	4:AE:47:THR:HB	2.10	0.52
1:AA:1056:U:O2'	5:AF:195:VAL:O	2.17	0.52
5:AF:37:GLN:HA	5:AF:37:GLN:OE1	2.09	0.52
5:AF:43:LEU:CD2	5:AF:55:VAL:HG21	2.40	0.52
1:AA:543:C:P	6:AG:10:ARG:NH2	2.83	0.52
6:AG:15:GLU:HB2	6:AG:19:LEU:HD11	1.92	0.52
6:AG:17:VAL:O	6:AG:18:LYS:C	2.48	0.52
9:AJ:42:ILE:O	9:AJ:43:PHE:C	2.48	0.52
10:AK:111:ILE:HG13	10:AK:120:THR:HG22	1.92	0.52
10:AK:68:ARG:N	10:AK:76:PRO:HG3	2.25	0.52
16:AQ:14:PRO:HB2	16:AQ:17:LYS:HA	1.91	0.52
17:AR:54:ARG:NE	17:AR:58:MET:HE2	2.25	0.52
17:AR:77:ARG:NH1	17:AR:81:LEU:H	2.07	0.52
18:AS:12:LYS:O	18:AS:13:HIS:HB2	2.08	0.52
18:AS:26:ARG:O	18:AS:27:LYS:C	2.46	0.52
18:AS:54:GLU:O	18:AS:55:ARG:C	2.45	0.52
18:AS:82:GLN:O	18:AS:82:GLN:CG	2.57	0.52
48:B1:59:LEU:HD11	48:B1:63:ARG:NE	2.24	0.52
49:B2:35:ARG:HH22	49:B2:47:VAL:HG11	1.74	0.52
51:B4:12:SER:OG	51:B4:13:LYS:N	2.43	0.52
52:B5:22:ALA:CB	52:B5:39:TYR:HE2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:9:ARG:O	53:B6:13:ALA:HB3	2.08	0.52
54:B7:24:ALA:O	54:B7:25:MET:C	2.48	0.52
54:B7:29:LYS:NZ	54:B7:36:LYS:HZ1	2.07	0.52
55:B8:9:ARG:NH2	55:B8:16:VAL:CG1	2.73	0.52
24:BA:1139:G:N7	34:BM:65:LYS:HE2	2.24	0.52
24:BA:1212:G:H3'	24:BA:1212:G:C8	2.45	0.52
24:BA:1238:G:N2	24:BA:1239:G:H1'	2.25	0.52
24:BA:1265:A:O5'	24:BA:1267:U:O2	2.28	0.52
24:BA:1277:G:O2'	38:BQ:24:GLN:HG2	2.10	0.52
24:BA:1354:A:C2'	24:BA:1355:G:H5'	2.40	0.52
24:BA:1392:A:C5	24:BA:1393:A:C6	2.97	0.52
24:BA:1405:U:C2	24:BA:1406:U:C4	2.98	0.52
24:BA:140:A:N6	24:BA:1596:A:H4'	2.21	0.52
24:BA:1673:U:HO2'	24:BA:1674:G:P	2.32	0.52
24:BA:1788:C:C2'	27:BD:222:ARG:NH2	2.49	0.52
24:BA:1820:U:H2'	27:BD:202:LYS:CG	2.30	0.52
24:BA:1861:G:N2	24:BA:1862:G:H1'	2.24	0.52
24:BA:1879:C:H2'	24:BA:1880:C:C6	2.44	0.52
24:BA:1890:A:C2	24:BA:1891:G:H1'	2.45	0.52
24:BA:1906:G:C2	24:BA:1907:G:N7	2.78	0.52
24:BA:2051:A:OP2	24:BA:2051:A:H8	1.92	0.52
24:BA:2213:U:OP2	24:BA:2215:G:C6	2.62	0.52
24:BA:963:U:C1'	24:BA:2250:G:H21	2.19	0.52
24:BA:2255:G:N2	24:BA:2256:G:H1'	2.25	0.52
24:BA:2327:A:N7	24:BA:2388:A:N6	2.57	0.52
24:BA:2353:G:C6	24:BA:2365:G:N2	2.78	0.52
24:BA:2435:A:C2'	24:BA:2436:G:O5'	2.57	0.52
24:BA:247:G:N7	24:BA:249:C:O2	2.42	0.52
24:BA:2470:G:O6	24:BA:2481:G:C2	2.63	0.52
24:BA:2466:C:C4	24:BA:2485:G:C6	2.97	0.52
24:BA:251:A:C2'	24:BA:252:G:O5'	2.58	0.52
24:BA:2544:G:O2'	24:BA:2545:G:H5'	2.10	0.52
24:BA:2562:U:H2'	24:BA:2562:U:O2	2.10	0.52
24:BA:2568:C:O2'	24:BA:2569:G:H5'	2.10	0.52
24:BA:2507:C:C4'	24:BA:2573:C:N4	2.72	0.52
24:BA:2617:C:H2'	24:BA:2618:G:O5'	2.10	0.52
24:BA:221:A:O2'	24:BA:271(B):G:N1	2.43	0.52
24:BA:2730:C:H2'	24:BA:2731:G:H8	1.75	0.52
24:BA:2767:C:O2	24:BA:2768:C:C5	2.63	0.52
24:BA:2777:G:O5'	24:BA:2777:G:H8	1.93	0.52
24:BA:2776:A:C8	24:BA:2781:A:N7	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2844:G:H3'	24:BA:2845:G:H8	1.73	0.52
24:BA:2876:G:C2	24:BA:2877:G:N7	2.77	0.52
24:BA:30:G:C5	24:BA:31:C:C5	2.98	0.52
24:BA:45:G:H2'	24:BA:215:G:H2'	1.92	0.52
24:BA:506:G:O2'	24:BA:507:A:H8	1.91	0.52
24:BA:604:G:C2'	24:BA:605:C:O5'	2.57	0.52
24:BA:814:C:N3	24:BA:815:C:C5	2.78	0.52
24:BA:91:A:H2	24:BA:92:G:H5'	1.73	0.52
27:BD:246:PRO:HG2	27:BD:250:TRP:HB3	1.90	0.52
28:BE:5:LEU:HD23	28:BE:7:VAL:N	2.24	0.52
30:BG:36:LYS:NZ	30:BG:38:VAL:HG22	2.25	0.52
30:BG:55:LYS:HB3	30:BG:152:LEU:HD21	1.92	0.52
31:BH:153:LYS:HA	31:BH:162:ILE:H	1.74	0.52
31:BH:35:VAL:HG12	31:BH:71:LEU:CD2	2.38	0.52
24:BA:1007:C:O3'	34:BM:108:PRO:HG3	2.10	0.52
24:BA:2640:G:O3'	34:BM:75:TYR:CZ	2.63	0.52
36:BO:99:LEU:HD23	36:BO:100:LEU:H	1.74	0.52
36:BO:111:ARG:HD2	36:BO:129:ALA:HB2	1.89	0.52
36:BO:49:ARG:HG3	54:B7:52:LYS:CG	2.38	0.52
36:BO:77:ARG:CZ	36:BO:79:ARG:HG2	2.40	0.52
38:BQ:43:GLU:OE2	38:BQ:43:GLU:HA	2.10	0.52
38:BQ:73:VAL:O	38:BQ:76:VAL:N	2.43	0.52
39:BR:39:ILE:O	39:BR:47:THR:CG2	2.58	0.52
40:BS:28:VAL:HG11	40:BS:90:GLN:HB2	1.92	0.52
24:BA:534:U:OP1	41:BT:24:TYR:CE2	2.62	0.52
41:BT:31:SER:C	41:BT:35:ALA:HB2	2.29	0.52
41:BT:59:ARG:O	41:BT:62:ILE:CB	2.48	0.52
43:BV:74:ALA:HB2	43:BV:106:ILE:H	1.74	0.52
43:BV:74:ALA:HB1	43:BV:105:VAL:CB	2.40	0.52
44:BW:31:HIS:CD2	44:BW:31:HIS:C	2.83	0.52
45:BX:19:LYS:C	45:BX:21:LYS:H	2.12	0.52
46:BY:99:TYR:CD1	46:BY:126:VAL:CG2	2.93	0.52
46:BY:29:TYR:CE2	46:BY:72:ARG:NH1	2.76	0.52
46:BY:26:GLY:O	46:BY:37:VAL:O	2.28	0.52
24:BA:2602:A:O2'	47:BZ:1:MET:HB2	2.10	0.52
24:BA:2603:G:OP2	47:BZ:1:MET:SD	2.67	0.52
3:AD:54:U:OP2	3:AD:55:U:C4	2.62	0.52
26:BC:161:ILE:C	26:BC:161:ILE:HD12	2.31	0.52
26:BC:195:ALA:O	26:BC:199:HIS:ND1	2.30	0.52
26:BC:54:SER:HA	26:BC:57:ASN:ND2	2.25	0.52
24:BA:1510:A:N3	24:BA:1511:A:C2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:6:PRO:HB3	34:BM:41:ASP:HB3	1.92	0.52
1:AA:1118:C:C4	1:AA:1156:G:N2	2.78	0.52
1:AA:1134:G:N2	1:AA:1136:U:O4	2.42	0.52
1:AA:1202:G:C2'	1:AA:1203:C:O5'	2.58	0.52
1:AA:977:A:N6	1:AA:1224:G:OP1	2.42	0.52
1:AA:124:G:OP1	1:AA:310:G:N2	2.33	0.52
1:AA:1251:A:H2'	1:AA:1252:A:C5	2.45	0.52
1:AA:1406:U:H2'	1:AA:1407:C:O5'	2.09	0.52
1:AA:1430:C:N3	1:AA:1471:G:C2	2.78	0.52
1:AA:186:C:H2'	1:AA:186(A):C:C6	2.44	0.52
1:AA:304:U:O2'	1:AA:305:G:H5'	2.10	0.52
1:AA:390:C:N4	1:AA:391:G:O6	2.43	0.52
1:AA:458:C:N4	1:AA:464:G:C6	2.78	0.52
1:AA:527:G:N2	1:AA:528:C:C2	2.77	0.52
1:AA:533:A:O4'	1:AA:533:A:OP2	2.27	0.52
1:AA:671:G:C2	1:AA:672:U:H1'	2.44	0.52
1:AA:675:A:N3	13:AN:116:HIS:HB2	2.25	0.52
1:AA:754:C:H1'	17:AR:69:TYR:CG	2.44	0.52
1:AA:920:U:O2'	1:AA:921:U:H5'	2.10	0.52
1:AA:978:A:H3'	1:AA:978:A:C8	2.44	0.52
1:AA:996:A:C2	1:AA:997:U:C5	2.98	0.52
3:AB:34:G:OP1	3:AB:34:G:H8	1.93	0.52
3:AB:74:C:C5	24:BA:2556:C:N1	2.78	0.52
3:AC:65:G:C6	3:AC:66:U:C4	2.98	0.52
4:AE:123:ALA:O	4:AE:124:SER:O	2.28	0.52
4:AE:115:LEU:CD2	4:AE:149:LEU:HD22	2.36	0.52
6:AG:171:GLY:HA3	6:AG:173:TRP:CZ3	2.44	0.52
7:AH:47:LYS:H	7:AH:57:LYS:CE	2.23	0.52
7:AH:71:LEU:HD21	7:AH:74:GLY:N	2.24	0.52
1:AA:1240:U:C1'	9:AJ:42:ILE:HD11	2.39	0.52
10:AK:100:ILE:HG23	10:AK:121:ASP:HA	1.92	0.52
10:AK:102:ARG:HH21	10:AK:105:ARG:HA	1.74	0.52
10:AK:49:GLU:OE1	10:AK:60:ARG:HB3	2.09	0.52
11:AL:7:THR:CG2	11:AL:9:ARG:HH11	2.22	0.52
12:AM:28:ARG:HG2	12:AM:28:ARG:NH1	2.24	0.52
12:AM:5:ARG:NH2	12:AM:73:ASP:OD2	2.43	0.52
13:AN:80:VAL:HG22	13:AN:81:ASP:N	2.25	0.52
13:AN:84:VAL:O	13:AN:84:VAL:HG23	2.09	0.52
17:AR:78:TYR:C	17:AR:78:TYR:HD2	2.14	0.52
19:AT:75:ARG:HH12	19:AT:77:VAL:CG2	2.23	0.52
1:AA:986:A:O2'	21:AV:55:LYS:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:51:GLU:HB3	22:AW:54:LYS:HZ1	1.75	0.52
1:AA:263:A:H5'	22:AW:75:ASN:HD21	1.75	0.52
48:B1:27:LEU:HD21	48:B1:49:LYS:N	2.25	0.52
49:B2:13:ILE:CG2	49:B2:14:GLY:N	2.66	0.52
52:B5:48:VAL:HG22	52:B5:49:HIS:N	2.25	0.52
24:BA:592:G:HO2'	54:B7:2:PRO:HA	1.70	0.52
24:BA:1075:C:O2	24:BA:1075:C:C2'	2.58	0.52
24:BA:1107:G:O5'	24:BA:1107:G:H8	1.93	0.52
24:BA:1005:C:C5	24:BA:1142(A):A:O3'	2.63	0.52
24:BA:1176:G:C2'	24:BA:1177:A:H5'	2.34	0.52
24:BA:1256:G:C6	24:BA:1257:C:C4	2.98	0.52
24:BA:1263:U:H4'	51:B4:10:LYS:HD3	1.92	0.52
24:BA:1358:G:C8	24:BA:1371:G:N1	2.78	0.52
24:BA:1540:G:H2'	24:BA:1541:U:C4'	2.40	0.52
24:BA:1607:C:H2'	24:BA:1607:C:O2	2.09	0.52
24:BA:1627:G:H2'	24:BA:1627:G:N3	2.24	0.52
24:BA:1632:A:O5'	24:BA:1632:A:C8	2.63	0.52
24:BA:1677:A:C2	24:BA:1678:G:C4	2.97	0.52
24:BA:1683:C:H6	24:BA:1683:C:O5'	1.93	0.52
24:BA:1683:C:C2	24:BA:1684:C:H5	2.25	0.52
24:BA:1764:G:C2'	24:BA:1765:C:O5'	2.57	0.52
24:BA:1803:A:O3'	27:BD:257:LEU:HD13	2.10	0.52
24:BA:1813:G:H5''	24:BA:1814:G:OP2	2.09	0.52
24:BA:1819:A:N7	27:BD:179:SER:HB3	2.25	0.52
24:BA:1844:C:C2	24:BA:1845:G:C8	2.98	0.52
24:BA:1955:U:H3'	24:BA:1956:U:H5	1.74	0.52
24:BA:1997:G:C6	24:BA:1998:G:C6	2.97	0.52
24:BA:2093:G:H2'	24:BA:2094:G:H5'	1.92	0.52
24:BA:2216:G:O5'	24:BA:2216:G:C8	2.62	0.52
24:BA:2274:A:C5	24:BA:2276:G:C8	2.98	0.52
24:BA:2298:A:H62	24:BA:2318:G:H21	1.58	0.52
24:BA:2408:U:C2	24:BA:2409:G:C8	2.98	0.52
24:BA:1954:G:N3	24:BA:2551:C:H4'	2.25	0.52
24:BA:2744:G:O2'	24:BA:2745:C:H5'	2.09	0.52
24:BA:2848:G:H2'	40:BS:99:LEU:HD21	1.92	0.52
24:BA:324:A:C2	24:BA:325:G:C1'	2.93	0.52
24:BA:565:C:N3	24:BA:566:U:N3	2.58	0.52
24:BA:572:A:C8	24:BA:573:G:C4	2.98	0.52
24:BA:716:A:C8	24:BA:717:G:O4'	2.63	0.52
24:BA:729:G:H2'	24:BA:730:C:C1'	2.40	0.52
24:BA:744:G:O6	24:BA:745:G:O6	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:819:A:H2'	24:BA:820:A:H8	1.69	0.52
24:BA:893:C:C2	24:BA:894:C:C5	2.98	0.52
24:BA:90:U:OP1	24:BA:90:U:C6	2.63	0.52
24:BA:946:G:C6	24:BA:972:G:N2	2.76	0.52
25:BB:30:C:O4'	25:BB:58:A:C2	2.62	0.52
25:BB:85:G:C4	25:BB:92:G:N2	2.78	0.52
27:BD:211:ARG:C	27:BD:215:LEU:HD12	2.30	0.52
27:BD:244:ARG:HB3	27:BD:252:TRP:CD1	2.44	0.52
27:BD:250:TRP:CA	27:BD:250:TRP:CE3	2.92	0.52
27:BD:5:LYS:O	27:BD:29:PRO:HD3	2.09	0.52
28:BE:13:ARG:O	28:BE:13:ARG:HD2	2.09	0.52
30:BG:174:GLU:CG	30:BG:175:LEU:N	2.73	0.52
30:BG:47:LYS:CD	30:BG:49:ASP:OD2	2.53	0.52
31:BH:122:THR:O	31:BH:133:VAL:CG2	2.56	0.52
31:BH:107:VAL:HG11	31:BH:152:ARG:HD2	1.92	0.52
32:BK:4:ILE:HD11	32:BK:39:ALA:CA	2.40	0.52
33:BL:121:GLU:HB3	33:BL:125:ARG:CZ	2.40	0.52
33:BL:26:ALA:O	33:BL:30:HIS:HB3	2.09	0.52
33:BL:60:TYR:CD2	33:BL:67:PHE:HE1	2.28	0.52
34:BM:18:ALA:H	34:BM:21:LYS:HD2	1.74	0.52
34:BM:55:VAL:HB	34:BM:130:HIS:NE2	2.23	0.52
35:BN:113:LYS:NZ	35:BN:117:LEU:HB2	2.25	0.52
35:BN:22:ILE:HD12	35:BN:40:VAL:HG21	1.91	0.52
24:BA:1952:A:C2	35:BN:22:ILE:HG12	2.39	0.52
36:BO:124:LYS:HD2	36:BO:142:GLY:O	2.10	0.52
37:BP:47:ILE:O	37:BP:48:GLU:C	2.47	0.52
24:BA:872:A:O2'	37:BP:66:ILE:HG12	2.09	0.52
38:BQ:75:LEU:HD23	38:BQ:78:LYS:CB	2.40	0.52
40:BS:104:ASN:HA	40:BS:107:ASP:OD2	2.10	0.52
40:BS:31:SER:OG	40:BS:91:ARG:NH1	2.43	0.52
41:BT:26:GLY:O	41:BT:27:LEU:HD12	2.10	0.52
24:BA:515:A:H5'	41:BT:32:PHE:HZ	1.74	0.52
41:BT:2:PRO:O	41:BT:3:ARG:O	2.28	0.52
41:BT:59:ARG:O	41:BT:60:LEU:C	2.47	0.52
42:BU:57:VAL:CG1	42:BU:58:VAL:H	2.02	0.52
42:BU:20:LEU:CB	42:BU:95:LEU:HB3	2.40	0.52
44:BW:15:GLU:CA	44:BW:16:LYS:HE2	2.40	0.52
44:BW:50:LYS:HZ3	44:BW:85:PRO:CG	2.23	0.52
46:BY:111:VAL:HG22	46:BY:117:LEU:CG	2.32	0.52
46:BY:127:LYS:HD3	46:BY:165:VAL:H	1.75	0.52
46:BY:157:LEU:HD23	46:BY:158:PRO:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:161:VAL:O	46:BY:162:GLU:CB	2.56	0.52
46:BY:123:ASP:H	46:BY:171:ILE:HD13	1.74	0.52
46:BY:29:TYR:O	46:BY:89:PHE:HD2	1.93	0.52
46:BY:30:ASN:CB	46:BY:90:VAL:HG23	2.27	0.52
47:BZ:42:GLY:O	47:BZ:57:PHE:HD2	1.92	0.52
47:BZ:56:ASP:OD2	47:BZ:58:THR:OG1	2.24	0.52
24:BA:2143:C:C4	24:BA:2144:U:O4	2.63	0.52
24:BA:2171:A:O2'	24:BA:2172:U:C6	2.56	0.52
26:BC:10:LEU:CD1	26:BC:32:LEU:HD23	2.40	0.52
26:BC:131:LEU:HB2	26:BC:137:LEU:HB2	1.92	0.52
26:BC:46:LYS:HD3	26:BC:46:LYS:O	2.10	0.52
24:BA:1511:A:H3'	24:BA:1511:A:C8	2.45	0.52
24:BA:274:G:N2	24:BA:274:G:OP2	2.42	0.52
24:BA:2182:G:C2	24:BA:2183:C:C2	2.97	0.52
26:BC:187:ASP:OD2	26:BC:187:ASP:C	2.48	0.52
2:A1:36:U:H6	2:A1:36:U:H5''	1.74	0.52
1:AA:1343:G:H2'	1:AA:1344:C:O4'	2.10	0.52
1:AA:1362(A):C:H5'	1:AA:1363:A:OP1	2.10	0.52
1:AA:259:G:N2	1:AA:260:G:N3	2.58	0.52
1:AA:263:A:C2'	1:AA:264:U:C5'	2.75	0.52
1:AA:254:G:N1	1:AA:273:A:C6	2.78	0.52
1:AA:280:C:C5'	1:AA:281:G:OP2	2.57	0.52
1:AA:355:C:N4	1:AA:356:A:N6	2.56	0.52
1:AA:381:C:H2'	1:AA:381:C:O2	2.10	0.52
1:AA:390:C:C2	1:AA:391:G:C8	2.97	0.52
1:AA:429:U:H1'	1:AA:430:A:H5''	1.90	0.52
1:AA:465:A:H61	18:AS:82:GLN:HE22	1.58	0.52
1:AA:485:G:O2'	1:AA:486:U:H6	1.93	0.52
1:AA:558:G:O5'	1:AA:559:A:C3'	2.58	0.52
1:AA:62:U:H4'	1:AA:385:C:O2	2.10	0.52
1:AA:717:C:O2'	1:AA:718:G:P	2.68	0.52
1:AA:735:C:O2'	20:AU:75:ILE:CD1	2.57	0.52
1:AA:812:C:H4'	1:AA:813:U:H6	1.75	0.52
1:AA:854:G:H5''	1:AA:871:U:N3	2.20	0.52
1:AA:924:C:O2'	1:AA:925:G:H5'	2.10	0.52
1:AA:93:U:H2'	1:AA:95:G:H8	1.71	0.52
1:AA:954:G:H2'	1:AA:955:U:C6	2.45	0.52
1:AA:978:A:C8	1:AA:980:C:N4	2.78	0.52
3:AC:16:U:H4'	3:AC:18:G:C5'	2.37	0.52
3:AC:60:U:OP1	3:AC:61:C:C5	2.63	0.52
3:AC:75:C:O5'	3:AC:76:A:P	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:105:PHE:O	4:AE:109:SER:OG	2.21	0.52
4:AE:238:LEU:HD23	4:AE:238:LEU:O	2.09	0.52
4:AE:44:LEU:O	4:AE:45:GLN:C	2.48	0.52
5:AF:127:ARG:C	5:AF:128:PHE:CD1	2.84	0.52
6:AG:30:LYS:HG2	6:AG:35:ARG:CD	2.40	0.52
7:AH:72:GLN:HE22	7:AH:144:THR:HG23	1.74	0.52
8:AI:48:LEU:CD1	8:AI:50:TYR:O	2.55	0.52
9:AJ:140:ASP:O	9:AJ:144:MET:HB2	2.10	0.52
9:AJ:88:PRO:HA	9:AJ:89:MET:HE3	1.93	0.52
10:AK:91:ARG:C	10:AK:92:ARG:HD2	2.31	0.52
11:AL:82:ALA:HB1	11:AL:101:PHE:CE1	2.45	0.52
1:AA:1188:A:C5'	12:AM:61:GLU:OE2	2.54	0.52
14:AO:104:VAL:O	14:AO:106:ASP:N	2.43	0.52
14:AO:60:LEU:CD2	14:AO:60:LEU:C	2.77	0.52
15:AP:19:LEU:O	15:AP:22:ILE:HG13	2.10	0.52
15:AP:23:TYR:HB3	15:AP:67:GLU:CA	2.19	0.52
17:AR:52:SER:O	17:AR:53:HIS:C	2.46	0.52
17:AR:17:ARG:HH11	17:AR:77:ARG:HD3	1.72	0.52
18:AS:18:ARG:NH1	18:AS:32:TYR:CE2	2.78	0.52
18:AS:20:VAL:HG11	18:AS:32:TYR:CD2	2.44	0.52
18:AS:57:ARG:HA	18:AS:60:LEU:HD12	1.92	0.52
19:AT:4:LYS:C	19:AT:5:VAL:HG23	2.31	0.52
21:AV:27:GLU:OE2	21:AV:29:ARG:HA	2.10	0.52
21:AV:62:ILE:CG1	21:AV:67:VAL:HG22	2.38	0.52
24:BA:388:G:OP2	50:B3:23:GLU:CG	2.58	0.52
52:B5:19:ARG:HH12	52:B5:43:CYS:CB	2.05	0.52
52:B5:22:ALA:O	52:B5:23:THR:OG1	2.24	0.52
52:B5:24:GLU:CD	54:B7:37:SER:HB2	2.30	0.52
24:BA:592:G:O2'	54:B7:3:LYS:N	2.40	0.52
24:BA:1014:U:HO2'	24:BA:1015:G:H5'	1.70	0.52
24:BA:1069:A:H5'	24:BA:1070:A:C3'	2.40	0.52
24:BA:1078:U:C2	24:BA:1088:A:H1'	2.44	0.52
24:BA:1148:A:N1	24:BA:1149:G:C5	2.77	0.52
24:BA:119:A:O2'	24:BA:120:U:P	2.67	0.52
24:BA:1306:C:H2'	24:BA:1307:A:O4'	2.10	0.52
24:BA:1288:U:C2	24:BA:1327:C:C2	2.97	0.52
24:BA:1360:A:C2'	24:BA:1361:G:H5'	2.40	0.52
24:BA:1358:G:N1	24:BA:1372:U:OP2	2.36	0.52
24:BA:1440:G:H2'	24:BA:1441:G:H8	1.75	0.52
24:BA:1442:G:C2	24:BA:1443:G:C5	2.98	0.52
24:BA:1731:G:N3	24:BA:1731:G:H3'	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1802:A:C2'	24:BA:1802:A:N3	2.67	0.52
24:BA:1818:U:C4	27:BD:156:ALA:CB	2.92	0.52
24:BA:1879:C:H2'	24:BA:1880:C:O4'	2.09	0.52
24:BA:1911:U:C2'	24:BA:1912:A:C5'	2.77	0.52
24:BA:1921:G:O2'	24:BA:1922:G:H5'	2.10	0.52
24:BA:2256:G:N2	24:BA:2275:C:N4	2.58	0.52
24:BA:2287:A:C2'	24:BA:2288:A:O5'	2.58	0.52
24:BA:2369:A:N6	24:BA:2382:G:N2	2.57	0.52
24:BA:2432:A:C8	24:BA:2433:A:C5	2.98	0.52
24:BA:2447:G:H3'	24:BA:2499:C:OP2	2.10	0.52
24:BA:2525:G:O2'	24:BA:2741:A:C2	2.63	0.52
24:BA:2639:A:C5	24:BA:2778:A:C6	2.98	0.52
24:BA:2689:U:C2	24:BA:2713:A:N7	2.78	0.52
24:BA:270(Z):U:H3	24:BA:271(C):U:H1'	1.73	0.52
24:BA:2767:C:N3	24:BA:2768:C:N4	2.57	0.52
24:BA:2886:G:N2	24:BA:2887:U:H1'	2.26	0.52
24:BA:2811:G:H22	24:BA:2891:G:H1'	1.75	0.52
24:BA:223:A:C6	24:BA:408:G:O4'	2.62	0.52
24:BA:415:A:N1	24:BA:416:C:O2	2.43	0.52
24:BA:724:U:C2'	24:BA:725:G:C5'	2.88	0.52
24:BA:740:U:C6	24:BA:741:G:N7	2.78	0.52
24:BA:761:A:H5''	24:BA:762:U:OP1	2.09	0.52
24:BA:763:G:C6	24:BA:765:G:C5	2.98	0.52
24:BA:829:A:C5'	24:BA:830:G:H5''	2.36	0.52
24:BA:916:G:O2'	25:BB:99:A:H1'	2.10	0.52
24:BA:972:G:OP2	24:BA:972:G:C8	2.62	0.52
25:BB:81:G:C6	25:BB:82:G:C5	2.97	0.52
27:BD:182:LEU:N	27:BD:270:ILE:HG13	2.25	0.52
27:BD:246:PRO:O	27:BD:247:ALA:O	2.28	0.52
28:BE:103:ASP:O	28:BE:104:VAL:HG22	2.09	0.52
28:BE:105:THR:HB	28:BE:166:THR:HG1	1.74	0.52
28:BE:67:PHE:O	28:BE:70:ALA:N	2.43	0.52
28:BE:98:PRO:HG3	28:BE:175:VAL:HG22	1.91	0.52
29:BF:121:GLY:CA	29:BF:191:ARG:NE	2.73	0.52
29:BF:22:ALA:HB1	29:BF:115:ALA:HB2	1.92	0.52
29:BF:46:ARG:NE	29:BF:46:ARG:HA	2.25	0.52
29:BF:49:ALA:HB3	29:BF:94:PRO:CA	2.40	0.52
29:BF:53:THR:O	29:BF:56:GLU:OE1	2.28	0.52
30:BG:19:LEU:H	30:BG:19:LEU:CD1	2.22	0.52
30:BG:38:VAL:O	30:BG:157:ILE:HG13	2.09	0.52
30:BG:74:LYS:CE	30:BG:75:LYS:HE3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:98:LEU:C	31:BH:100:GLY:H	2.12	0.52
31:BH:136:ILE:CG2	31:BH:137:ASP:H	2.20	0.52
31:BH:94:TYR:O	31:BH:95:ARG:HD2	2.10	0.52
33:BL:86:LYS:O	33:BL:87:GLY:C	2.49	0.52
34:BM:44:PRO:HG2	34:BM:45:ASN:OD1	2.10	0.52
34:BM:74:ARG:C	34:BM:76:SER:N	2.54	0.52
34:BM:85:ILE:HD12	34:BM:85:ILE:H	1.73	0.52
35:BN:117:LEU:HD23	35:BN:118:ALA:CA	2.40	0.52
35:BN:63:VAL:HG12	35:BN:99:PHE:HZ	1.75	0.52
36:BO:126:VAL:CA	36:BO:146:VAL:H	2.22	0.52
36:BO:15:ARG:HH22	36:BO:16:ARG:HB2	1.71	0.52
36:BO:76:LYS:HE2	36:BO:81:GLN:NE2	2.25	0.52
37:BP:39:PRO:HA	37:BP:127:ILE:HG21	1.91	0.52
37:BP:127:ILE:HD13	37:BP:129:THR:HG23	1.92	0.52
37:BP:57:HIS:O	37:BP:59:ARG:N	2.42	0.52
37:BP:22:LYS:CD	37:BP:99:PRO:HG3	2.25	0.52
38:BQ:34:ILE:CG2	38:BQ:35:THR:N	2.73	0.52
38:BQ:37:THR:HG23	38:BQ:40:LYS:CD	2.37	0.52
39:BR:66:ALA:O	39:BR:67:ARG:C	2.48	0.52
39:BR:69:VAL:HG13	39:BR:73:LEU:HD11	1.92	0.52
40:BS:104:ASN:CA	40:BS:108:ARG:HH12	2.23	0.52
42:BU:28:GLU:CG	42:BU:94:LEU:HB2	2.39	0.52
44:BW:12:VAL:HG22	44:BW:29:TRP:NE1	2.25	0.52
45:BX:37:VAL:CG1	45:BX:39:VAL:HB	2.40	0.52
37:BP:85:LYS:NZ	47:BZ:10:THR:OG1	2.37	0.52
47:BZ:50:ASN:O	47:BZ:62:LEU:CB	2.57	0.52
47:BZ:52:GLY:HA3	47:BZ:60:PHE:CE1	2.44	0.52
25:BB:11:C:P	47:BZ:74:ARG:HH12	2.32	0.52
3:AD:9:A:H5''	3:AD:10:G:OP2	2.10	0.52
24:BA:2168:G:H1'	24:BA:2170:A:N7	2.25	0.52
26:BC:138:PRO:HB3	26:BC:145:VAL:CG2	2.40	0.52
26:BC:192:PHE:CE1	26:BC:196:LEU:HD13	2.45	0.52
26:BC:36:LYS:O	26:BC:37:PHE:CG	2.63	0.52
24:BA:1116:C:OP2	24:BA:1116:C:C6	2.61	0.52
48:B1:6:GLU:O	48:B1:7:GLU:C	2.48	0.52
1:AA:1170:A:C8	1:AA:1171:G:C8	2.98	0.52
39:BR:33:LYS:CG	39:BR:54:LEU:HD21	2.39	0.52
24:BA:2670:A:C5'	28:BE:206:LYS:HZ3	2.23	0.52
24:BA:2183:C:O2	24:BA:2183:C:H2'	2.08	0.52
2:A1:28:G:H2'	2:A1:29:G:C8	2.45	0.51
2:A1:37:U:H2'	2:A1:38:U:C6	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:46:U:N3	3:AB:34:G:C6	2.78	0.51
1:AA:1003:G:N2	1:AA:1038:C:H1'	2.24	0.51
1:AA:1065:U:HO2'	1:AA:1066:C:P	2.33	0.51
1:AA:1129:C:H4'	1:AA:1130:A:H8	1.74	0.51
1:AA:1230:C:H5''	11:AL:127:LYS:HE3	1.91	0.51
1:AA:1234:C:H4'	1:AA:1364:U:C1'	2.38	0.51
1:AA:1246:C:H2'	1:AA:1247:U:H6	1.75	0.51
1:AA:1278:U:H5'	1:AA:1279:A:C5'	2.40	0.51
1:AA:1319:A:O2'	1:AA:1321:C:N4	2.43	0.51
1:AA:946:A:O2'	1:AA:1333:A:H1'	2.10	0.51
1:AA:1396:A:O2'	1:AA:1397:C:H5''	2.10	0.51
1:AA:1401:G:H2'	1:AA:1402:C:C5'	2.40	0.51
1:AA:1404:C:O4'	1:AA:1499:A:N1	2.43	0.51
1:AA:246:A:O2'	1:AA:247:G:O5'	2.27	0.51
1:AA:475:G:C2	1:AA:476:G:C5	2.98	0.51
1:AA:583:A:H2'	1:AA:584:G:O4'	2.10	0.51
1:AA:587:G:N3	1:AA:755:G:N1	2.58	0.51
1:AA:626:U:O2'	1:AA:627:G:H5'	2.10	0.51
1:AA:642:A:N3	10:AK:113:SER:OG	2.32	0.51
1:AA:652:U:H1'	1:AA:653:A:C2	2.45	0.51
1:AA:667:G:OP2	1:AA:732:C:O2'	2.25	0.51
1:AA:686:U:H2'	1:AA:687:A:C8	2.45	0.51
1:AA:833:U:O2'	1:AA:834:C:H6	1.92	0.51
1:AA:961:U:C2'	1:AA:962:C:H5'	2.40	0.51
1:AA:971:G:N2	1:AA:1363:A:OP2	2.43	0.51
4:AE:16:HIS:O	4:AE:204:ASN:CB	2.55	0.51
5:AF:186:PHE:HB2	5:AF:199:LYS:HG2	1.92	0.51
5:AF:84:ILE:HD11	5:AF:88:ARG:HH21	1.76	0.51
6:AG:101:LEU:O	6:AG:104:VAL:N	2.43	0.51
6:AG:10:ARG:HH11	6:AG:11:LEU:HD23	1.74	0.51
1:AA:404:U:OP2	6:AG:118:ARG:NH1	2.42	0.51
6:AG:170:VAL:HG23	6:AG:176:LEU:CD2	2.38	0.51
6:AG:166:LYS:HD3	6:AG:178:VAL:CG1	2.39	0.51
6:AG:25:ARG:NH1	6:AG:30:LYS:HB3	2.25	0.51
9:AJ:77:SER:C	9:AJ:156:TRP:CZ2	2.83	0.51
9:AJ:68:ASN:O	9:AJ:135:VAL:HG13	2.10	0.51
10:AK:6:ILE:C	10:AK:6:ILE:CD1	2.79	0.51
11:AL:97:LYS:CE	11:AL:102:LEU:HD22	2.40	0.51
11:AL:11:LYS:CB	11:AL:108:VAL:HG12	2.41	0.51
11:AL:113:LYS:NZ	11:AL:119:ALA:CB	2.72	0.51
9:AJ:16:LEU:HD12	11:AL:44:VAL:CG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:5:ARG:CB	12:AM:5:ARG:CZ	2.88	0.51
13:AN:33:THR:HA	13:AN:38:ASN:O	2.10	0.51
14:AO:12:ARG:CZ	14:AO:12:ARG:CB	2.87	0.51
15:AP:20:THR:CG2	15:AP:26:GLY:HA2	2.40	0.51
15:AP:69:GLU:O	15:AP:70:LEU:C	2.49	0.51
15:AP:81:LEU:HA	15:AP:84:ILE:HD11	1.92	0.51
18:AS:6:LEU:CA	18:AS:18:ARG:O	2.56	0.51
18:AS:20:VAL:HG11	18:AS:32:TYR:HB2	1.89	0.51
19:AT:60:ILE:O	19:AT:62:SER:OG	2.26	0.51
19:AT:84:LEU:O	19:AT:87:LYS:N	2.43	0.51
13:AN:110:ASP:HB3	20:AU:85:LEU:HB3	1.92	0.51
22:AW:48:LYS:O	22:AW:49:ALA:C	2.48	0.51
1:AA:1305:G:H5'	23:AX:4:GLY:HA3	1.92	0.51
49:B2:5:LYS:NZ	49:B2:59:VAL:CG2	2.73	0.51
50:B3:65:ASP:O	50:B3:69:LYS:CG	2.46	0.51
24:BA:1264:G:O2'	51:B4:7:PRO:HG3	2.10	0.51
54:B7:1:MET:H3	54:B7:2:PRO:HD2	1.75	0.51
24:BA:1020:A:H2	24:BA:1140:C:H2'	1.71	0.51
24:BA:1069:A:H5''	24:BA:1070:A:O5'	2.10	0.51
24:BA:1157:G:C6	24:BA:1158:C:C4	2.98	0.51
24:BA:1223:C:O2'	24:BA:1225:C:H5	1.93	0.51
24:BA:1265:A:O4'	24:BA:1267:U:N3	2.43	0.51
24:BA:1272:A:O2'	24:BA:1273:U:P	2.68	0.51
24:BA:1307:A:H4'	24:BA:1379:A:H62	1.75	0.51
24:BA:1313:U:H2'	24:BA:1314:C:C5	2.45	0.51
24:BA:1366:A:H5'	50:B3:1:MET:N	2.25	0.51
24:BA:136:G:H2'	24:BA:137:C:C6	2.44	0.51
24:BA:1540:G:C6	24:BA:1541:U:H1'	2.44	0.51
24:BA:1591:G:C2	24:BA:1592:C:C4	2.99	0.51
24:BA:1650:G:C2'	24:BA:1651:G:O5'	2.58	0.51
24:BA:1657:C:P	28:BE:136:ARG:NH2	2.82	0.51
24:BA:1675:C:OP2	24:BA:1676:A:OP2	2.28	0.51
24:BA:1803:A:C8	24:BA:1804:C:C5	2.98	0.51
24:BA:1853:A:N3	24:BA:2233:U:O2'	2.42	0.51
24:BA:1859:A:H61	24:BA:1883:G:C2'	2.23	0.51
24:BA:1948:G:C4	24:BA:1959:G:C2	2.99	0.51
24:BA:200:U:O4	24:BA:201:C:H1'	2.11	0.51
24:BA:210:C:O2'	24:BA:211:A:H5'	2.10	0.51
24:BA:2197:U:O2'	24:BA:2198:A:O4'	2.28	0.51
24:BA:2262:U:O4	47:BZ:15:ASP:O	2.28	0.51
24:BA:2291:U:O2'	24:BA:2374:C:H1'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2393:A:H4'	36:BO:56:SER:H	1.74	0.51
24:BA:2246:G:H1'	24:BA:2426:A:C2	2.45	0.51
24:BA:248:G:N2	24:BA:2431:U:H5'	2.25	0.51
24:BA:2476:A:C8	24:BA:2477:C:C6	2.98	0.51
24:BA:2537:U:H2'	24:BA:2538:C:H6	1.71	0.51
24:BA:2544:G:C2'	24:BA:2545:G:H5'	2.41	0.51
24:BA:2564:A:C4	24:BA:2565:A:N7	2.78	0.51
24:BA:2682:U:H2'	24:BA:2683:C:C5'	2.40	0.51
24:BA:2773:C:P	28:BE:164:ARG:NH2	2.83	0.51
24:BA:2807:G:N3	24:BA:2807:G:H2'	2.25	0.51
24:BA:2884:U:C2'	24:BA:2885:C:H5'	2.40	0.51
24:BA:299:A:H5''	24:BA:300:A:OP2	2.10	0.51
24:BA:330:A:HO2'	24:BA:1210:A:N6	2.07	0.51
24:BA:371:A:C2	24:BA:372:G:N1	2.78	0.51
24:BA:447:A:O2'	24:BA:449:A:N6	2.43	0.51
24:BA:46:C:C5	24:BA:215:G:H8	2.28	0.51
24:BA:308:G:N7	24:BA:501:A:C4	2.78	0.51
24:BA:617:G:OP2	29:BF:40:GLN:NE2	2.44	0.51
24:BA:675:A:C5	24:BA:804:A:C2	2.98	0.51
24:BA:804:A:O2'	24:BA:806:C:N3	2.38	0.51
24:BA:872:A:O2'	37:BP:66:ILE:HD13	2.09	0.51
24:BA:569:U:H1'	24:BA:947:G:O4'	2.10	0.51
24:BA:980:A:C4	24:BA:981:A:C2	2.98	0.51
25:BB:99:A:C6	25:BB:100:G:C6	2.97	0.51
25:BB:14:U:C6	25:BB:14:U:C3'	2.94	0.51
27:BD:143:HIS:NE2	27:BD:192:THR:HG21	2.25	0.51
27:BD:250:TRP:HA	27:BD:250:TRP:HE3	1.71	0.51
27:BD:63:ARG:HG2	27:BD:65:ILE:CG1	2.40	0.51
27:BD:9:TYR:OH	27:BD:91:ARG:CZ	2.56	0.51
28:BE:104:VAL:CG1	28:BE:105:THR:H	2.23	0.51
28:BE:127:ASP:O	28:BE:128:SER:CB	2.59	0.51
28:BE:152:LYS:CD	28:BE:152:LYS:O	2.58	0.51
28:BE:14:ILE:CG2	28:BE:19:ARG:HA	2.40	0.51
28:BE:12:THR:CA	28:BE:22:PRO:HD2	2.39	0.51
28:BE:57:LYS:O	28:BE:58:ARG:NH2	2.43	0.51
29:BF:8:GLN:HB3	29:BF:18:ARG:HB2	1.93	0.51
29:BF:197:ASP:CA	29:BF:200:GLU:CG	2.71	0.51
29:BF:46:ARG:HE	29:BF:47:GLY:N	2.07	0.51
30:BG:125:PHE:HD1	30:BG:132:ASN:N	2.08	0.51
24:BA:2304:G:OP1	30:BG:132:ASN:ND2	2.43	0.51
30:BG:14:GLU:CD	30:BG:15:VAL:N	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:41:GLN:OE1	30:BG:155:MET:HE3	2.10	0.51
33:BL:38:VAL:C	33:BL:41:PHE:HB2	2.27	0.51
34:BM:107:LEU:HD13	34:BM:117:PHE:CD2	2.45	0.51
35:BN:12:ASP:N	35:BN:14:THR:HG22	2.24	0.51
35:BN:15:GLY:N	35:BN:52:VAL:HG21	2.25	0.51
24:BA:598:G:H1'	36:BO:14:LYS:HG2	1.90	0.51
37:BP:12:GLN:O	37:BP:12:GLN:NE2	2.43	0.51
38:BQ:105:ARG:C	38:BQ:107:ASP:H	2.13	0.51
38:BQ:41:ALA:O	38:BQ:42:LYS:C	2.48	0.51
38:BQ:5:LYS:HZ1	38:BQ:6:SER:CA	2.23	0.51
39:BR:31:SER:HB3	39:BR:34:HIS:CB	2.39	0.51
39:BR:70:GLY:O	39:BR:71:ARG:C	2.47	0.51
24:BA:2848:G:O4'	40:BS:99:LEU:HD11	2.10	0.51
41:BT:81:HIS:CB	41:BT:117:GLN:NE2	2.72	0.51
34:BM:4:TYR:HB3	41:BT:64:ARG:HH22	1.74	0.51
41:BT:84:LYS:HA	41:BT:84:LYS:CE	2.40	0.51
43:BV:42:ARG:CG	43:BV:43:GLY:N	2.73	0.51
43:BV:18:ARG:CD	43:BV:76:VAL:HG12	2.36	0.51
44:BW:12:VAL:CG2	44:BW:28:PHE:HA	2.36	0.51
45:BX:97:ARG:CB	45:BX:101:LYS:HG2	2.41	0.51
46:BY:120:ILE:HB	46:BY:123:ASP:OD1	2.09	0.51
46:BY:127:LYS:HA	46:BY:164:ALA:CB	2.40	0.51
47:BZ:19:LYS:CG	47:BZ:20:ARG:N	2.71	0.51
47:BZ:26:TYR:CE1	47:BZ:29:GLN:NE2	2.78	0.51
3:AD:47:U:C2	3:AD:48:C:H5'	2.45	0.51
24:BA:2127:G:C4	24:BA:2162:G:C2	2.98	0.51
26:BC:171:ILE:CD1	26:BC:196:LEU:HD11	2.40	0.51
26:BC:59:ARG:CG	26:BC:60:GLY:N	2.69	0.51
48:B1:7:GLU:H	48:B1:7:GLU:CD	2.13	0.51
1:AA:233:C:C2'	1:AA:234:C:H5'	2.39	0.51
1:AA:73:G:C6	1:AA:74:C:C4	2.98	0.51
2:A1:10:U:C2	2:A1:12:U:OP2	2.63	0.51
1:AA:1048:G:O3'	1:AA:1049:U:H3'	2.10	0.51
1:AA:1117:G:C2	1:AA:1184:G:C2	2.98	0.51
1:AA:1202:G:N3	1:AA:1203:C:C6	2.78	0.51
1:AA:1273:G:H2'	1:AA:1274:G:O4'	2.09	0.51
1:AA:1293:G:C4	1:AA:1294:G:C8	2.98	0.51
1:AA:1500:A:H2'	1:AA:1501:C:C6	2.45	0.51
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.10	0.51
1:AA:1539:C:H2'	1:AA:1540:U:O4'	2.09	0.51
1:AA:279:A:C1'	1:AA:281:G:C4	2.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:291:C:C3'	1:AA:305:G:N2	2.64	0.51
1:AA:317:G:C2'	1:AA:318:G:H5'	2.39	0.51
1:AA:35:G:C6	1:AA:36:C:C4	2.97	0.51
1:AA:413:G:N2	1:AA:428:G:O2'	2.41	0.51
1:AA:503:C:C2	1:AA:504:C:C5	2.98	0.51
1:AA:687:A:N3	1:AA:704:A:C6	2.78	0.51
1:AA:689:C:H2'	1:AA:690:G:H1'	1.91	0.51
1:AA:945:G:N1	1:AA:946:A:N7	2.57	0.51
1:AA:947:G:H21	1:AA:948:C:H1'	1.75	0.51
1:AA:953:G:H1'	15:AP:126:LYS:N	2.25	0.51
1:AA:961:U:C5	1:AA:983:A:C6	2.99	0.51
3:AD:74:C:OP1	50:B3:22:ILE:HG12	2.09	0.51
4:AE:67:THR:HB	4:AE:155:LEU:CD2	2.37	0.51
4:AE:69:LEU:CD1	4:AE:70:PHE:N	2.74	0.51
4:AE:91:PRO:CG	4:AE:155:LEU:H	2.23	0.51
5:AF:12:LEU:CD2	16:AQ:57:ARG:CG	2.80	0.51
5:AF:142:MET:C	5:AF:142:MET:SD	2.88	0.51
5:AF:27:LYS:O	5:AF:28:GLN:HB3	2.11	0.51
6:AG:91:SER:O	6:AG:92:VAL:C	2.49	0.51
7:AH:37:ARG:HG2	7:AH:112:LEU:O	2.11	0.51
8:AI:51:PRO:HA	8:AI:55:ASP:O	2.10	0.51
8:AI:40:VAL:HA	8:AI:63:TYR:HD1	1.74	0.51
9:AJ:111:ARG:HD2	9:AJ:123:GLU:CB	2.36	0.51
9:AJ:16:LEU:O	9:AJ:17:VAL:HG23	2.09	0.51
9:AJ:74:GLU:O	9:AJ:88:PRO:CA	2.53	0.51
9:AJ:99:LEU:O	9:AJ:99:LEU:HD23	2.10	0.51
10:AK:10:LEU:HD11	10:AK:85:ARG:CD	2.26	0.51
10:AK:14:ARG:HB3	10:AK:83:ILE:HG21	1.92	0.51
10:AK:97:VAL:HG12	10:AK:99:GLU:OE2	2.10	0.51
1:AA:1370:G:H5''	11:AL:12:GLU:HG3	1.92	0.51
9:AJ:16:LEU:HB3	11:AL:41:VAL:HG12	1.93	0.51
14:AO:118:SER:O	14:AO:121:GLY:HA2	2.09	0.51
18:AS:30:GLY:C	18:AS:31:LYS:O	2.45	0.51
18:AS:73:LEU:C	18:AS:73:LEU:CD1	2.76	0.51
20:AU:36:ASN:OD1	20:AU:39:VAL:HB	2.11	0.51
50:B3:31:ILE:HD13	50:B3:31:ILE:N	2.10	0.51
24:BA:2046:G:H5'	51:B4:22:HIS:HB2	1.93	0.51
24:BA:2884:U:O4	51:B4:40:LYS:HE2	2.10	0.51
52:B5:8:LYS:C	52:B5:28:ARG:HB3	2.29	0.51
52:B5:31:PRO:O	52:B5:34:LEU:HG	2.09	0.51
53:B6:40:TRP:O	53:B6:41:ARG:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:5:TRP:CE2	53:B6:7:PRO:HD3	2.45	0.51
24:BA:247:G:C2	54:B7:8:LYS:HD2	2.45	0.51
24:BA:1064:C:H3'	24:BA:1065:U:C5	2.45	0.51
24:BA:1222:C:C4	24:BA:1227:A:N6	2.79	0.51
24:BA:1236:G:O2'	24:BA:1237:A:O5'	2.28	0.51
24:BA:1319:G:C6	24:BA:1334:G:C6	2.97	0.51
24:BA:1364:G:O6	50:B3:2:LYS:NZ	2.40	0.51
24:BA:152:G:C2	24:BA:153:C:C2	2.98	0.51
24:BA:1597:A:O3'	24:BA:1598:C:H6	1.93	0.51
24:BA:1754:C:C2	24:BA:1755:A:C1'	2.93	0.51
24:BA:1764:G:H2'	24:BA:1765:C:O5'	2.08	0.51
24:BA:1788:C:C4	24:BA:1789:A:H8	2.20	0.51
24:BA:1838:C:C2'	24:BA:1898:U:O4	2.58	0.51
24:BA:1930:G:O2'	24:BA:1931:U:P	2.67	0.51
24:BA:1936:A:H1'	24:BA:1940:U:N3	2.24	0.51
24:BA:2243:U:C2	24:BA:2244:U:C6	2.98	0.51
24:BA:2384:G:OP2	24:BA:2384:G:C8	2.54	0.51
24:BA:2424:C:H5''	24:BA:2425:A:H5'	1.93	0.51
24:BA:2426:A:H3'	24:BA:2427:C:C5'	2.40	0.51
24:BA:1938:A:H2	24:BA:2590:A:O4'	1.93	0.51
24:BA:2792:G:N2	24:BA:2793:G:C4	2.77	0.51
24:BA:302:C:H2'	24:BA:303:U:C6	2.45	0.51
24:BA:311:A:C2	24:BA:331:A:H5''	2.45	0.51
24:BA:360:G:C2'	24:BA:361:G:H5'	2.40	0.51
24:BA:541:C:H6	24:BA:541:C:OP2	1.92	0.51
24:BA:546:C:N3	24:BA:547:A:C6	2.78	0.51
24:BA:584:C:C2'	24:BA:585:G:H5'	2.40	0.51
24:BA:59:U:C3'	24:BA:60:G:H5''	2.40	0.51
24:BA:637:A:H2	24:BA:651:G:C4'	2.23	0.51
24:BA:675:A:O2'	24:BA:676:A:H5'	2.10	0.51
24:BA:730:C:C3'	24:BA:731:C:H5'	2.40	0.51
24:BA:775:G:N2	24:BA:787:U:O2'	2.43	0.51
24:BA:815:C:C2'	24:BA:816:C:C5'	2.88	0.51
24:BA:836:G:C6	24:BA:837:C:C4	2.98	0.51
24:BA:973:A:O2'	24:BA:974:G:H5'	2.08	0.51
24:BA:975:G:N3	24:BA:975:G:C2'	2.73	0.51
25:BB:13:A:N6	25:BB:70:C:H5'	2.25	0.51
25:BB:24:G:C2	25:BB:27:C:N4	2.77	0.51
25:BB:37:C:H3'	25:BB:38:C:C6	2.45	0.51
25:BB:85:G:C2	25:BB:92:G:N3	2.77	0.51
27:BD:201:HIS:CD2	27:BD:202:LYS:CE	2.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:244:ARG:O	27:BD:252:TRP:CG	2.63	0.51
27:BD:60:ARG:HG2	27:BD:62:TYR:OH	2.10	0.51
24:BA:2578:G:N7	28:BE:140:SER:HB2	2.25	0.51
28:BE:195:LEU:CD1	28:BE:196:VAL:N	2.53	0.51
29:BF:122:LYS:CD	29:BF:192:LEU:HD12	2.40	0.51
30:BG:105:LYS:HA	30:BG:109:VAL:CG1	2.40	0.51
30:BG:121:ASN:OD1	30:BG:180:PHE:HB2	2.10	0.51
31:BH:102:ALA:HB1	31:BH:115:VAL:N	2.25	0.51
32:BK:4:ILE:HG23	32:BK:18:VAL:CG2	2.40	0.51
33:BL:35:MET:SD	33:BL:39:LYS:HE3	2.50	0.51
34:BM:109:LYS:HZ1	34:BM:110:GLY:H	1.50	0.51
34:BM:23:LEU:HG	34:BM:61:ARG:O	2.10	0.51
35:BN:22:ILE:HG13	35:BN:40:VAL:HG13	1.91	0.51
36:BO:101:VAL:CG2	36:BO:112:LEU:HD22	2.36	0.51
36:BO:59:LEU:HD23	54:B7:25:MET:HE1	1.93	0.51
37:BP:37:LEU:N	37:BP:100:GLY:HA2	2.25	0.51
37:BP:109:VAL:HG11	37:BP:114:ALA:CA	2.40	0.51
38:BQ:5:LYS:HZ3	38:BQ:5:LYS:C	2.13	0.51
38:BQ:96:ARG:HD2	38:BQ:115:GLU:OE1	2.09	0.51
39:BR:19:LYS:C	39:BR:19:LYS:HD3	2.31	0.51
39:BR:42:ASP:C	39:BR:44:LYS:N	2.59	0.51
39:BR:78:LEU:HD13	39:BR:79:ALA:CB	2.39	0.51
40:BS:53:ARG:NH2	40:BS:102:ILE:CG1	2.72	0.51
40:BS:7:ILE:C	40:BS:9:LEU:N	2.61	0.51
41:BT:14:HIS:O	41:BT:17:ILE:N	2.43	0.51
41:BT:25:TRP:O	41:BT:26:GLY:C	2.49	0.51
41:BT:61:TRP:CE3	41:BT:93:LYS:NZ	2.77	0.51
42:BU:62:LEU:CD1	42:BU:98:GLU:HA	2.39	0.51
43:BV:50:VAL:HG11	43:BV:103:ILE:HG13	1.92	0.51
43:BV:25:ARG:HD3	43:BV:74:ALA:CA	2.40	0.51
45:BX:32:PRO:C	45:BX:34:LYS:H	2.13	0.51
46:BY:116:VAL:HG21	46:BY:144:LEU:O	2.10	0.51
46:BY:56:VAL:HG22	46:BY:133:ILE:CD1	2.40	0.51
47:BZ:76:GLY:CA	47:BZ:78:TYR:HE1	2.23	0.51
24:BA:2136:C:C4	24:BA:2137:C:C5	2.98	0.51
26:BC:52:ARG:HB3	26:BC:52:ARG:CZ	2.40	0.51
6:AG:46:LYS:O	6:AG:47:ARG:C	2.48	0.51
1:AA:159:G:C2	1:AA:161:A:OP2	2.63	0.51
1:AA:1060:C:H2'	1:AA:1061:G:C8	2.45	0.51
1:AA:959:A:C2	1:AA:1221:G:N3	2.76	0.51
1:AA:1376:U:H3	1:AA:1377:A:N6	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1376:U:O4	9:AJ:10:ARG:HD2	2.10	0.51
1:AA:1400:C:C5	1:AA:1400:C:OP1	2.63	0.51
1:AA:1455:G:C2'	1:AA:1459:C:H5'	2.40	0.51
1:AA:67:C:C4'	1:AA:172:A:C1'	2.89	0.51
1:AA:309:G:O2'	1:AA:310:G:O4'	2.22	0.51
1:AA:45:U:H2'	1:AA:46:G:C8	2.45	0.51
1:AA:599:C:N4	1:AA:640:A:N6	2.59	0.51
1:AA:621:A:H2'	1:AA:622:A:C8	2.46	0.51
1:AA:808:C:C4	1:AA:809:G:N7	2.79	0.51
1:AA:893:C:N3	1:AA:894:G:N7	2.58	0.51
1:AA:990:C:H2'	1:AA:991:U:N1	2.26	0.51
3:AC:36:A:N6	3:AC:37:A:C6	2.78	0.51
4:AE:92:TYR:CE2	4:AE:151:GLY:O	2.63	0.51
4:AE:25:ASN:HB3	4:AE:191:ASP:CA	2.40	0.51
4:AE:25:ASN:HD21	4:AE:27:LYS:CG	2.23	0.51
4:AE:52:GLU:CD	4:AE:53:ARG:H	2.13	0.51
5:AF:157:ILE:HG13	5:AF:164:ARG:NE	2.26	0.51
5:AF:174:PRO:HB2	5:AF:177:THR:HG22	1.92	0.51
1:AA:1190:G:P	5:AF:5:ILE:HG13	2.50	0.51
6:AG:60:GLU:HA	6:AG:63:LYS:HZ3	1.75	0.51
6:AG:82:ALA:CB	6:AG:92:VAL:HB	2.39	0.51
8:AI:37:VAL:HA	8:AI:65:VAL:CB	2.41	0.51
10:AK:101:PRO:HG2	10:AK:102:ARG:H	1.74	0.51
10:AK:98:LYS:NZ	10:AK:98:LYS:N	2.48	0.51
11:AL:106:ALA:C	11:AL:107:ARG:HG3	2.29	0.51
11:AL:50:LEU:HD21	11:AL:55:ALA:C	2.31	0.51
13:AN:13:GLN:O	13:AN:14:VAL:HG23	2.11	0.51
13:AN:12:ARG:HH11	13:AN:40:ILE:HG23	1.76	0.51
14:AO:115:LYS:O	14:AO:116:SER:C	2.49	0.51
15:AP:19:LEU:HD11	15:AP:30:ALA:CB	2.40	0.51
15:AP:24:GLY:O	15:AP:25:ILE:HG12	2.11	0.51
15:AP:27:LYS:O	15:AP:28:ALA:HB3	2.10	0.51
1:AA:1187:G:H1'	16:AQ:61:TRP:C	2.31	0.51
17:AR:12:ILE:HG12	17:AR:31:LEU:HD11	1.91	0.51
17:AR:21:ASP:OD2	17:AR:24:SER:CB	2.59	0.51
18:AS:58:TYR:O	18:AS:61:SER:CB	2.58	0.51
19:AT:75:ARG:HG2	19:AT:75:ARG:HH11	1.76	0.51
22:AW:16:HIS:O	22:AW:17:ARG:C	2.48	0.51
22:AW:18:GLN:O	22:AW:19:SER:C	2.49	0.51
22:AW:73:HIS:HD2	22:AW:74:LYS:NZ	2.08	0.51
48:B1:22:GLU:OE1	48:B1:22:GLU:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:46:GLN:O	50:B3:52:THR:HB	2.10	0.51
50:B3:59:PHE:C	50:B3:61:ARG:N	2.56	0.51
51:B4:13:LYS:CD	51:B4:13:LYS:N	2.65	0.51
51:B4:51:TYR:CE1	51:B4:55:ARG:HD3	2.46	0.51
53:B6:24:THR:HG23	53:B6:27:GLY:CA	2.40	0.51
54:B7:34:TRP:HE3	54:B7:36:LYS:HD3	1.74	0.51
24:BA:243:U:OP2	54:B7:4:MET:HB3	2.10	0.51
54:B7:16:ILE:CG2	54:B7:57:ARG:HH22	2.24	0.51
24:BA:1021:A:C6	24:BA:1023:U:C6	2.98	0.51
24:BA:1073:A:OP2	24:BA:1094:U:O4	2.29	0.51
24:BA:1022:G:C6	24:BA:1139:G:C2	2.99	0.51
24:BA:1180:C:C2	24:BA:1181:C:C5	2.98	0.51
24:BA:1310:G:N7	24:BA:1311:G:N3	2.59	0.51
24:BA:1313:U:P	44:BW:63:LYS:CD	2.98	0.51
24:BA:135:G:H2'	24:BA:136:G:O4'	2.10	0.51
24:BA:1388:G:H4'	24:BA:1524:G:O2'	2.09	0.51
24:BA:1403:C:H4'	24:BA:1471:A:C5'	2.37	0.51
24:BA:1405:U:C2'	24:BA:1406:U:C6	2.77	0.51
24:BA:1467:C:C4	24:BA:1468:C:N4	2.79	0.51
24:BA:1515:C:C2'	24:BA:1516:U:OP1	2.58	0.51
24:BA:129:C:H5'	24:BA:1599:C:O2'	2.10	0.51
24:BA:1634:A:O3'	24:BA:1635:G:N7	2.43	0.51
24:BA:1769:G:C6	24:BA:1770:G:O6	2.64	0.51
24:BA:1819:A:H2'	24:BA:1820:U:OP2	2.09	0.51
24:BA:1943:U:C4'	24:BA:1944:U:O5'	2.53	0.51
24:BA:185:U:C4	24:BA:212:G:N2	2.79	0.51
24:BA:860:U:H5	24:BA:2267:A:O3'	1.92	0.51
24:BA:2318:G:OP2	24:BA:2318:G:C8	2.63	0.51
24:BA:2352:A:C2'	24:BA:2353:G:O4'	2.56	0.51
24:BA:236:C:H2'	24:BA:237:C:O5'	2.10	0.51
24:BA:1864:U:C4'	24:BA:2409:G:H22	2.20	0.51
24:BA:2423:U:C2'	24:BA:2424:C:OP2	2.58	0.51
24:BA:1639:U:O2'	24:BA:2699:C:H4'	2.10	0.51
24:BA:2704:C:H2'	24:BA:2705:A:N9	2.23	0.51
24:BA:2777:G:H4'	24:BA:2778:A:OP2	2.10	0.51
24:BA:2828:C:C2	24:BA:2829:C:H5	2.28	0.51
24:BA:464:U:C2	24:BA:788:A:C5	2.98	0.51
24:BA:504:U:H5'	24:BA:506:G:OP1	2.09	0.51
24:BA:543:C:C2	24:BA:551:G:C2	2.98	0.51
24:BA:586:A:N6	24:BA:809:G:O2'	2.43	0.51
24:BA:647:G:H5'	24:BA:2352:A:H5'	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:648:G:C2	24:BA:649:G:N7	2.79	0.51
24:BA:809:G:C5	24:BA:810:U:C5	2.98	0.51
24:BA:823:G:C3'	24:BA:824:A:H8	2.20	0.51
24:BA:885:C:N4	24:BA:889:C:C6	2.78	0.51
24:BA:988:A:OP1	49:B2:10:LYS:HD3	2.10	0.51
24:BA:989:G:C2'	24:BA:990:A:OP2	2.58	0.51
25:BB:79:C:C2'	25:BB:80:U:H5'	2.41	0.51
25:BB:97:G:C5	25:BB:98:G:C8	2.98	0.51
27:BD:176:ARG:HA	27:BD:182:LEU:HD23	1.91	0.51
27:BD:56:GLY:N	27:BD:217:ARG:O	2.43	0.51
27:BD:234:GLY:CA	27:BD:241:PRO:HG3	2.38	0.51
24:BA:2210:G:O6	27:BD:70:TRP:CZ3	2.64	0.51
24:BA:2572:A:H3'	28:BE:144:ARG:NH2	2.26	0.51
28:BE:161:GLY:O	28:BE:163:GLU:OE1	2.29	0.51
28:BE:199:ARG:CD	28:BE:199:ARG:N	2.71	0.51
28:BE:199:ARG:O	28:BE:200:GLU:CD	2.48	0.51
28:BE:77:ILE:CG1	28:BE:78:LEU:N	2.71	0.51
29:BF:24:LEU:H	29:BF:25:PRO:CD	2.21	0.51
30:BG:107:LEU:HD22	30:BG:173:LEU:HD21	1.92	0.51
30:BG:85:GLY:O	30:BG:86:MET:CB	2.57	0.51
30:BG:96:ARG:O	30:BG:99:MET:CB	2.54	0.51
32:BK:45:LYS:HA	32:BK:45:LYS:HE3	1.91	0.51
32:BK:9:LEU:HD23	32:BK:17:GLN:NE2	2.23	0.51
24:BA:1076:C:C5'	33:BL:93:ARG:HH21	2.23	0.51
34:BM:15:LEU:CD2	34:BM:137:LYS:HA	2.29	0.51
34:BM:85:ILE:CD1	34:BM:85:ILE:N	2.69	0.51
34:BM:8:GLN:HA	34:BM:8:GLN:OE1	2.10	0.51
35:BN:10:VAL:CG2	35:BN:12:ASP:OD1	2.55	0.51
35:BN:61:VAL:HA	35:BN:83:ALA:HB2	1.93	0.51
37:BP:48:GLU:HA	37:BP:51:ARG:CG	2.39	0.51
37:BP:64:ILE:HG22	37:BP:105:GLU:HB3	1.92	0.51
41:BT:10:ARG:O	41:BT:11:ARG:C	2.46	0.51
41:BT:55:ARG:HA	41:BT:58:ARG:CZ	2.40	0.51
42:BU:45:THR:O	42:BU:46:VAL:CB	2.57	0.51
42:BU:66:ARG:HE	42:BU:95:LEU:HD12	1.73	0.51
42:BU:74:LYS:C	42:BU:75:PHE:CD1	2.83	0.51
42:BU:67:GLY:HA2	42:BU:94:LEU:HA	1.91	0.51
45:BX:12:THR:HG21	45:BX:71:LYS:HA	1.89	0.51
46:BY:75:ASN:HB3	46:BY:84:GLU:HB2	1.92	0.51
47:BZ:57:PHE:N	47:BZ:57:PHE:HD1	2.08	0.51
32:BK:95:LYS:O	32:BK:98:ALA:CB	2.55	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2128:C:N4	24:BA:2129:C:N4	2.58	0.51
24:BA:2134:A:OP2	24:BA:2134:A:O4'	2.28	0.51
24:BA:2178:C:H5''	26:BC:46:LYS:HZ3	1.75	0.51
3:AB:72:C:C2	3:AB:73:A:N7	2.78	0.51
1:AA:1169:A:OP2	1:AA:1169:A:H8	1.93	0.51
2:A1:36:U:H1'	9:AJ:82:GLY:CA	2.39	0.51
1:AA:1053:G:N2	1:AA:1058:G:O6	2.43	0.51
1:AA:1104:G:H4'	4:AE:111:ARG:CZ	2.40	0.51
1:AA:1145:C:C1'	1:AA:1146:A:C8	2.89	0.51
1:AA:1151:A:O2'	12:AM:70:ARG:NH1	2.43	0.51
1:AA:1157:A:N1	1:AA:1180:A:C5	2.78	0.51
1:AA:1302:U:O2'	1:AA:1303:C:C5'	2.58	0.51
1:AA:1419:G:H2'	1:AA:1420:C:H6	1.74	0.51
1:AA:1465:C:N3	1:AA:1466:C:C5	2.78	0.51
1:AA:553:A:C2'	1:AA:554:C:O4'	2.59	0.51
1:AA:597:G:N2	10:AK:94:TYR:CZ	2.79	0.51
1:AA:730:G:H2'	1:AA:731:G:C4'	2.41	0.51
1:AA:775:G:C4	1:AA:776:G:N7	2.78	0.51
1:AA:828:A:OP1	1:AA:828:A:H4'	2.10	0.51
1:AA:890:G:H2'	1:AA:891:U:OP2	2.11	0.51
1:AA:957:U:H3	1:AA:960:U:C5'	2.23	0.51
1:AA:96:G:C5	1:AA:97:U:C4	2.99	0.51
3:AB:52:G:H4'	24:BA:2471:C:P	2.47	0.51
3:AC:9:A:N6	3:AC:22:G:C5	2.79	0.51
3:AC:37:A:C5	3:AC:38:A:C5	2.98	0.51
3:AC:49:C:H2'	3:AC:49:C:O2	2.09	0.51
3:AC:70:G:C6	3:AC:71:G:N7	2.78	0.51
6:AG:126:ILE:O	6:AG:132:ARG:CB	2.57	0.51
6:AG:128:VAL:HG23	6:AG:133:VAL:N	2.25	0.51
6:AG:31:CYS:C	6:AG:33:MET:H	2.12	0.51
6:AG:90:GLY:O	6:AG:94:LEU:HG	2.11	0.51
8:AI:76:ALA:HA	8:AI:79:LEU:HD11	1.92	0.51
8:AI:89:MET:HE2	20:AU:75:ILE:HG21	1.91	0.51
9:AJ:152:ALA:O	9:AJ:154:TYR:N	2.42	0.51
1:AA:643:C:HO2'	10:AK:132:GLU:CD	2.12	0.51
10:AK:6:ILE:CG1	10:AK:85:ARG:CZ	2.89	0.51
11:AL:32:ASP:OD1	11:AL:35:GLU:HB2	2.10	0.51
12:AM:51:ARG:NH2	12:AM:61:GLU:OE1	2.44	0.51
12:AM:72:VAL:HG12	12:AM:73:ASP:N	2.25	0.51
12:AM:7:LYS:NZ	12:AM:71:LEU:HD11	2.25	0.51
12:AM:19:SER:OG	12:AM:91:PRO:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:42:TRP:CZ3	13:AN:47:VAL:CG2	2.94	0.51
14:AO:24:VAL:CG1	14:AO:26:ALA:HB2	2.40	0.51
15:AP:78:ILE:HG23	15:AP:81:LEU:HD11	1.93	0.51
17:AR:76:GLU:O	17:AR:77:ARG:C	2.49	0.51
18:AS:27:LYS:HZ1	18:AS:27:LYS:H	1.58	0.51
18:AS:55:ARG:NH2	18:AS:58:TYR:CG	2.79	0.51
19:AT:75:ARG:HH12	19:AT:77:VAL:CA	2.23	0.51
1:AA:1314:C:N4	21:AV:4:SER:O	2.43	0.51
21:AV:30:LEU:HD12	21:AV:59:PRO:CA	2.39	0.51
21:AV:71:LEU:O	21:AV:74:PHE:CD1	2.63	0.51
48:B1:27:LEU:HG	48:B1:48:LEU:HB3	1.92	0.51
48:B1:52:ILE:HA	48:B1:55:LEU:HD13	1.93	0.51
48:B1:58:VAL:O	48:B1:61:GLU:N	2.42	0.51
49:B2:40:THR:O	49:B2:44:ARG:HG3	2.10	0.51
51:B4:55:ARG:O	51:B4:57:VAL:N	2.43	0.51
52:B5:20:ASN:ND2	52:B5:42:TRP:CD1	2.66	0.51
53:B6:8:ASN:ND2	53:B6:10:ARG:H	2.08	0.51
54:B7:9:GLY:O	54:B7:14:VAL:CB	2.59	0.51
36:BO:56:SER:HG	54:B7:27:THR:CB	2.23	0.51
24:BA:1071:G:H21	24:BA:1090:U:H5	1.58	0.51
24:BA:1099:G:C2	24:BA:1100:C:C6	2.99	0.51
24:BA:52:A:N7	24:BA:117:G:N2	2.58	0.51
24:BA:51:G:C1'	24:BA:118:A:N6	2.69	0.51
24:BA:120:U:C6	24:BA:150:C:H5	2.28	0.51
24:BA:1221:C:C4	24:BA:1229:G:N1	2.78	0.51
24:BA:1258:C:H2'	24:BA:1259:G:C8	2.40	0.51
24:BA:1327:C:H5''	24:BA:1328:G:OP2	2.11	0.51
24:BA:1477:A:OP2	24:BA:1477:A:H8	1.93	0.51
24:BA:1569:A:O2'	27:BD:39:LYS:NZ	2.38	0.51
24:BA:1682:G:H3'	24:BA:1683:C:C5	2.45	0.51
24:BA:1749:A:H2'	24:BA:1750:G:O4'	2.11	0.51
24:BA:1914:C:C2'	24:BA:1914:C:O2	2.56	0.51
24:BA:1996:C:C4'	24:BA:1996:C:C6	2.92	0.51
24:BA:2046:G:C4	24:BA:2047:U:C5	2.98	0.51
24:BA:221:A:C2	24:BA:233:A:C4	2.98	0.51
24:BA:2225:A:C4'	24:BA:2226:C:C6	2.93	0.51
24:BA:2320:A:H5'	24:BA:2321:G:N7	2.26	0.51
24:BA:2662:A:N3	24:BA:2663:G:H5'	2.26	0.51
24:BA:270(N):G:H3'	24:BA:270(O):U:C6	2.45	0.51
24:BA:2710:C:H2'	24:BA:2711:A:O4'	2.10	0.51
24:BA:2773:C:C2	24:BA:2774:C:C5	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2812:G:C6	24:BA:2813:A:N6	2.78	0.51
24:BA:2691:C:O4'	24:BA:2872:G:N7	2.43	0.51
24:BA:2887:U:C2	24:BA:2888:C:C5	2.99	0.51
24:BA:308:G:C2	24:BA:329:G:C2	2.97	0.51
24:BA:335:C:N3	24:BA:336:C:C5	2.78	0.51
24:BA:339:U:C6	24:BA:340:A:N7	2.79	0.51
24:BA:393:C:H2'	24:BA:394:A:O4'	2.10	0.51
24:BA:446:G:OP2	24:BA:446:G:O4'	2.29	0.51
24:BA:473:G:N2	24:BA:474:G:N3	2.59	0.51
24:BA:520:G:OP1	43:BV:25:ARG:NH1	2.43	0.51
24:BA:624:C:H3'	24:BA:624:C:H6	1.69	0.51
24:BA:63:U:O2'	24:BA:64:A:N7	2.40	0.51
24:BA:672:C:C2	24:BA:673:C:C5	2.98	0.51
24:BA:465:G:N2	24:BA:683:C:H2'	2.24	0.51
24:BA:691:C:H1'	27:BD:45:ASN:ND2	2.16	0.51
24:BA:707:G:H2'	24:BA:708:C:O4'	2.10	0.51
24:BA:71:A:C2	24:BA:73:A:C6	2.99	0.51
24:BA:762:U:H1'	24:BA:763:G:C5	2.45	0.51
24:BA:775:G:O2'	24:BA:794:G:C8	2.61	0.51
25:BB:112:G:N2	25:BB:113:C:C2	2.78	0.51
25:BB:6:C:H5'	25:BB:27:C:C2'	2.40	0.51
27:BD:154:LYS:CG	27:BD:154:LYS:O	2.56	0.51
27:BD:178:PRO:CG	27:BD:179:SER:N	2.74	0.51
24:BA:2589:A:P	27:BD:226:MET:SD	3.09	0.51
27:BD:65:ILE:CG2	27:BD:66:ASP:N	2.73	0.51
24:BA:2731:G:H4'	28:BE:168:MET:HE2	1.93	0.51
28:BE:103:ASP:O	28:BE:199:ARG:O	2.28	0.51
28:BE:19:ARG:HB3	35:BN:73:ASP:CG	2.31	0.51
29:BF:114:VAL:HG23	29:BF:186:ILE:HD13	1.92	0.51
29:BF:82:ILE:HD13	29:BF:82:ILE:H	1.68	0.51
31:BH:137:ASP:OD2	31:BH:139:GLN:HG3	2.09	0.51
31:BH:35:VAL:CG1	31:BH:72:ILE:HA	2.15	0.51
34:BM:67:LEU:O	34:BM:68:GLU:HB2	2.10	0.51
36:BO:96:THR:OG1	36:BO:112:LEU:HD11	2.11	0.51
36:BO:97:PRO:HD3	36:BO:102:ARG:CZ	2.41	0.51
37:BP:85:LYS:HZ1	47:BZ:10:THR:HG21	1.73	0.51
38:BQ:87:TYR:O	38:BQ:89:ASP:CG	2.48	0.51
25:BB:50:G:H5''	39:BR:61:ASN:CA	2.40	0.51
24:BA:2875:C:OP1	40:BS:3:ARG:NH1	2.43	0.51
40:BS:34:VAL:O	40:BS:44:ASP:O	2.29	0.51
41:BT:106:PHE:HA	41:BT:109:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:16:LYS:HD2	41:BT:17:ILE:CD1	2.41	0.51
24:BA:532:A:N6	41:BT:45:TYR:HH	2.06	0.51
42:BU:25:LEU:HA	42:BU:28:GLU:CG	2.40	0.51
42:BU:34:GLU:O	42:BU:35:LEU:CD1	2.58	0.51
42:BU:73:SER:OG	42:BU:89:GLN:CB	2.56	0.51
43:BV:89:ALA:O	43:BV:91:GLY:N	2.44	0.51
46:BY:102:LEU:CD2	46:BY:137:ILE:HB	2.40	0.51
46:BY:18:LEU:HD11	46:BY:38:TYR:CG	2.45	0.51
46:BY:95:PRO:HD2	46:BY:130:PRO:HA	1.91	0.51
46:BY:9:TYR:C	46:BY:10:ARG:HG3	2.30	0.51
32:BK:69:LYS:O	32:BK:73:GLU:OE1	2.28	0.51
32:BK:88:ILE:HG22	32:BK:90:GLY:H	1.75	0.51
26:BC:153:ILE:HA	26:BC:156:ILE:CD1	2.26	0.51
26:BC:209:LEU:HG	26:BC:212:VAL:CG2	2.39	0.51
26:BC:23:ASP:OD1	26:BC:186:ALA:HB2	2.09	0.51
26:BC:49:ILE:HD11	26:BC:165:ASN:ND2	2.24	0.51
24:BA:2175:C:OP1	26:BC:5:LYS:CG	2.58	0.51
26:BC:63:SER:O	26:BC:65:PRO:CD	2.57	0.51
48:B1:1:MET:O	48:B1:4:GLN:N	2.43	0.51
24:BA:2191:G:H21	24:BA:2192:G:H1'	1.75	0.51
1:AA:1182:G:C4'	1:AA:1183:A:O5'	2.58	0.51
1:AA:1450:U:C1'	1:AA:1454:G:N2	2.73	0.51
1:AA:196:A:H1'	1:AA:222:U:H1'	1.92	0.51
1:AA:295:C:C2'	1:AA:296:U:O5'	2.59	0.51
1:AA:447:G:H1'	1:AA:487:A:H61	1.76	0.51
1:AA:467:G:N2	1:AA:468:A:C4	2.78	0.51
1:AA:486:U:O2	1:AA:486:U:H2'	2.10	0.51
1:AA:652:U:H2'	1:AA:752:G:H22	1.75	0.51
1:AA:801:U:C2'	1:AA:801:U:O2	2.58	0.51
1:AA:809:G:H2'	1:AA:810:C:C5'	2.40	0.51
1:AA:834:C:O2'	1:AA:835:U:O4'	2.28	0.51
1:AA:978:A:C6	1:AA:1318:A:N6	2.79	0.51
3:AC:5:G:C2'	3:AC:6:G:O5'	2.58	0.51
3:AD:34:G:N3	3:AD:34:G:H2'	2.25	0.51
4:AE:141:GLU:CD	4:AE:141:GLU:C	2.69	0.51
4:AE:15:VAL:C	4:AE:16:HIS:HD1	2.13	0.51
4:AE:163:PHE:CE1	4:AE:186:ALA:CA	2.94	0.51
4:AE:221:LEU:C	4:AE:221:LEU:CD1	2.75	0.51
4:AE:45:GLN:O	4:AE:48:MET:HB2	2.11	0.51
4:AE:75:LYS:HZ2	4:AE:75:LYS:C	2.12	0.51
5:AF:22:TRP:CZ2	5:AF:33:LEU:HG	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:106:TYR:OH	6:AG:112:VAL:O	2.22	0.51
6:AG:127:THR:OG1	6:AG:149:ALA:HA	2.10	0.51
6:AG:173:TRP:H	6:AG:173:TRP:HE3	1.58	0.51
7:AH:136:MET:HA	7:AH:139:LEU:CD1	2.40	0.51
1:AA:1081:G:OP2	7:AH:27:ARG:HD2	2.11	0.51
7:AH:43:LEU:N	7:AH:65:ASN:ND2	2.48	0.51
8:AI:6:VAL:HG13	8:AI:6:VAL:O	2.11	0.51
9:AJ:23:VAL:HG13	9:AJ:43:PHE:CE2	2.46	0.51
11:AL:97:LYS:NZ	11:AL:102:LEU:HB3	2.25	0.51
11:AL:3:GLN:HG3	11:AL:20:ARG:CG	2.41	0.51
1:AA:1226:C:OP2	15:AP:103:THR:HB	2.10	0.51
15:AP:45:VAL:O	15:AP:47:ASP:N	2.43	0.51
18:AS:32:TYR:N	18:AS:32:TYR:HD1	2.07	0.51
21:AV:18:LYS:HE2	21:AV:22:LEU:CD1	2.41	0.51
23:AX:9:ARG:NH1	23:AX:21:TYR:CD2	2.76	0.51
24:BA:1131:G:H4'	24:BA:1132:A:OP1	2.10	0.51
24:BA:1176:G:C5'	24:BA:1177:A:C8	2.94	0.51
24:BA:1212:G:N7	24:BA:1235:G:C6	2.78	0.51
24:BA:1441:G:N2	24:BA:1442:G:H1'	2.24	0.51
24:BA:1528:A:H3'	24:BA:1529:A:O4'	2.11	0.51
24:BA:1539:G:C8	24:BA:1540:G:C8	2.99	0.51
24:BA:1577:C:H6	24:BA:1577:C:OP2	1.94	0.51
24:BA:1669:A:C6	24:BA:1994:C:O2	2.64	0.51
24:BA:1681:G:O6	24:BA:1762:A:N6	2.43	0.51
24:BA:1726:G:C5	24:BA:1727:U:O4	2.62	0.51
24:BA:1917:U:C5	24:BA:1918:A:C8	2.98	0.51
24:BA:1997:G:H5'	28:BE:123:ALA:HB3	1.93	0.51
24:BA:2033:A:HO2'	24:BA:2034:U:P	2.34	0.51
24:BA:2246:G:N3	24:BA:2247:A:C5	2.79	0.51
24:BA:2260:C:H2'	24:BA:2261:C:C6	2.46	0.51
24:BA:2287:A:N7	24:BA:2289:G:N7	2.56	0.51
24:BA:231:C:C4	24:BA:232:G:C2	2.98	0.51
24:BA:2345:G:H21	24:BA:2381:C:C3'	2.23	0.51
24:BA:2361:A:N3	24:BA:2361:A:H2'	2.26	0.51
24:BA:1128:A:C2	24:BA:2490:G:OP1	2.64	0.51
24:BA:2584:U:C5	24:BA:2585:U:C2	2.98	0.51
24:BA:2586:C:H3'	24:BA:2586:C:H6	1.74	0.51
24:BA:2695:C:H2'	24:BA:2696:U:C6	2.45	0.51
24:BA:2696:U:C2	24:BA:2697:G:C8	2.99	0.51
24:BA:2716:U:O2'	24:BA:2717:G:C5'	2.59	0.51
24:BA:2742:C:H4'	55:B8:35:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2761:G:C2'	24:BA:2762:G:H5'	2.41	0.51
24:BA:2815:C:C2'	24:BA:2816:C:H5'	2.40	0.51
24:BA:2820:A:H62	28:BE:191:PRO:HB3	1.75	0.51
24:BA:281:G:N2	24:BA:283:A:C4'	2.74	0.51
24:BA:312:G:O4'	24:BA:312:G:P	2.68	0.51
24:BA:313:C:C2	24:BA:314:A:C8	2.99	0.51
24:BA:330:A:O2'	24:BA:1210:A:C6	2.63	0.51
24:BA:483:A:C2	24:BA:484:C:O4'	2.64	0.51
24:BA:533:G:N7	24:BA:534:U:C4	2.78	0.51
24:BA:714:U:O2	24:BA:715:G:C8	2.64	0.51
24:BA:817:C:H3'	24:BA:818:G:H8	1.76	0.51
24:BA:832:G:OP1	36:BO:36:LYS:HE2	2.10	0.51
24:BA:847:U:C4	24:BA:933:A:H2	2.27	0.51
24:BA:912:C:O2'	24:BA:913:U:H5'	2.10	0.51
24:BA:971:C:OP2	24:BA:974(A):C:C5	2.64	0.51
25:BB:96:G:C2	25:BB:97:G:C8	2.99	0.51
27:BD:172:TYR:HD2	27:BD:185:VAL:C	2.13	0.51
27:BD:252:TRP:N	27:BD:255:LYS:HZ2	2.08	0.51
27:BD:71:ASP:O	27:BD:72:LYS:CB	2.59	0.51
28:BE:138:PRO:O	28:BE:139:GLY:O	2.28	0.51
28:BE:142:GLY:O	28:BE:143:ASN:CB	2.56	0.51
24:BA:2731:G:C4'	28:BE:168:MET:SD	2.94	0.51
29:BF:130:ALA:O	29:BF:139:PHE:CA	2.56	0.51
29:BF:200:GLU:O	29:BF:201:VAL:C	2.49	0.51
30:BG:11:TYR:O	30:BG:15:VAL:CG1	2.57	0.51
30:BG:138:GLN:N	30:BG:155:MET:SD	2.83	0.51
31:BH:121:ILE:HD11	31:BH:123:PHE:HE1	1.73	0.51
31:BH:56:SER:HB3	31:BH:61:HIS:ND1	2.25	0.51
33:BL:115:LEU:HD13	33:BL:115:LEU:O	2.11	0.51
34:BM:56:ASN:O	34:BM:57:ALA:C	2.46	0.51
34:BM:72:TYR:CE1	34:BM:74:ARG:HB3	2.45	0.51
37:BP:37:LEU:HD23	37:BP:100:GLY:CA	2.40	0.51
37:BP:109:VAL:HG22	37:BP:113:GLN:CB	2.39	0.51
37:BP:42:ILE:O	37:BP:42:ILE:CG2	2.58	0.51
38:BQ:103:ARG:HA	38:BQ:109:ALA:O	2.10	0.51
38:BQ:44:LEU:HD13	38:BQ:48:VAL:HG23	1.91	0.51
24:BA:2820:A:H4'	38:BQ:4:LEU:HD22	1.92	0.51
39:BR:31:SER:CB	39:BR:34:HIS:HB3	2.40	0.51
39:BR:65:VAL:HG23	39:BR:66:ALA:N	2.25	0.51
39:BR:67:ARG:NE	39:BR:71:ARG:HD2	2.25	0.51
35:BN:72:PRO:O	40:BS:84:GLN:NE2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:39:LEU:O	41:BT:41:ALA:N	2.44	0.51
43:BV:11:ARG:HB2	43:BV:98:LYS:CD	2.41	0.51
44:BW:5:TYR:HB3	48:B1:24:LYS:HZ3	1.76	0.51
44:BW:73:ARG:HG2	44:BW:74:PRO:CD	2.35	0.51
44:BW:85:PRO:HG3	44:BW:87:GLN:HG2	1.90	0.51
45:BX:26:LYS:HE3	45:BX:36:ALA:HB3	1.91	0.51
46:BY:139:VAL:HG12	46:BY:140:ASP:H	1.75	0.51
47:BZ:40:GLN:NE2	47:BZ:42:GLY:O	2.43	0.51
47:BZ:31:VAL:HG13	47:BZ:67:VAL:CG2	2.40	0.51
32:BK:77:LEU:HD22	32:BK:140:LEU:HD23	1.93	0.51
26:BC:75:LEU:HD23	26:BC:77:ILE:CD1	2.34	0.51
26:BC:82:LYS:CG	26:BC:116:THR:HG21	2.40	0.51
24:BA:1115:G:N2	24:BA:1116:C:C2	2.78	0.51
26:BC:148:ASN:HB2	26:BC:151:GLU:HB2	1.92	0.51
2:A1:10:U:O2'	2:A1:12:U:C5	2.61	0.51
1:AA:1003:G:N2	1:AA:1005:A:H5'	2.26	0.51
1:AA:1061:G:H5'	12:AM:59:SER:OG	2.11	0.51
1:AA:1205:U:H1'	5:AF:195:VAL:HG22	1.93	0.51
1:AA:1213:A:C2	1:AA:1215:G:C4	2.99	0.51
1:AA:1430:C:O2'	1:AA:1431:C:C5'	2.59	0.51
1:AA:1406:U:O4'	1:AA:1518:A:H4'	2.11	0.51
1:AA:1507:A:C2	1:AA:1530:G:H1'	2.46	0.51
1:AA:186(B):C:C4'	22:AW:89:ARG:HH22	2.23	0.51
1:AA:390:C:N3	1:AA:391:G:N7	2.59	0.51
1:AA:420:U:HO2'	1:AA:421:U:H5	1.57	0.51
1:AA:497:U:O2	1:AA:498:A:C8	2.64	0.51
1:AA:611:A:H2'	1:AA:612:C:C6	2.46	0.51
1:AA:754:C:H1'	17:AR:69:TYR:CB	2.41	0.51
1:AA:901:A:N3	1:AA:902:G:C1'	2.74	0.51
1:AA:946:A:C2'	1:AA:947:G:H8	2.21	0.51
3:AC:21:A:C2	3:AC:48:C:N3	2.79	0.51
3:AC:55:U:O5'	3:AC:55:U:H6	1.92	0.51
4:AE:163:PHE:CA	4:AE:185:ILE:O	2.47	0.51
4:AE:187:LEU:HD23	4:AE:201:ILE:HG22	1.93	0.51
4:AE:35:GLU:OE2	4:AE:39:ILE:N	2.44	0.51
5:AF:117:ALA:O	5:AF:118:GLN:C	2.49	0.51
5:AF:183:ASP:C	5:AF:183:ASP:OD2	2.47	0.51
6:AG:113:SER:HB3	6:AG:116:GLN:CG	2.41	0.51
7:AH:140:ARG:CB	7:AH:140:ARG:CZ	2.88	0.51
7:AH:80:ILE:HD12	7:AH:80:ILE:H	1.74	0.51
8:AI:36:ARG:CB	8:AI:36:ARG:NH1	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:18:TYR:O	9:AJ:19:GLY:C	2.49	0.51
9:AJ:74:GLU:CG	9:AJ:75:VAL:H	2.10	0.51
10:AK:97:VAL:HG13	10:AK:98:LYS:N	2.25	0.51
11:AL:67:GLY:N	11:AL:73:GLN:NE2	2.58	0.51
12:AM:44:VAL:HA	12:AM:66:ARG:HB3	1.92	0.51
12:AM:7:LYS:HZ2	12:AM:71:LEU:HD21	1.74	0.51
13:AN:18:ARG:CD	13:AN:34:ASP:O	2.59	0.51
13:AN:63:LEU:HG	13:AN:66:LEU:HD12	1.91	0.51
13:AN:68:ALA:O	13:AN:72:ALA:HB2	2.11	0.51
18:AS:26:ARG:NE	18:AS:31:LYS:HZ3	2.08	0.51
18:AS:3:LYS:C	18:AS:4:ILE:HD13	2.30	0.51
20:AU:41:LYS:HA	20:AU:44:LEU:HD23	1.93	0.51
48:B1:25:ARG:HG3	48:B1:25:ARG:NH2	2.22	0.51
49:B2:40:THR:HG22	49:B2:42:ALA:HB3	1.91	0.51
50:B3:33:VAL:HG12	50:B3:33:VAL:O	2.10	0.51
51:B4:17:ASP:C	51:B4:19:ARG:N	2.63	0.51
51:B4:6:VAL:O	51:B4:7:PRO:O	2.28	0.51
54:B7:40:GLU:C	54:B7:42:ARG:H	2.14	0.51
54:B7:43:GLN:CD	54:B7:43:GLN:N	2.64	0.51
55:B8:11:CYS:N	55:B8:14:CYS:SG	2.83	0.51
24:BA:1063:G:N2	24:BA:1076:C:C4	2.78	0.51
24:BA:1095:A:C2'	24:BA:1096:A:O4'	2.58	0.51
24:BA:1243:G:N1	24:BA:1244:G:C5	2.79	0.51
24:BA:1273:U:H4'	24:BA:1275:A:OP1	2.09	0.51
24:BA:1308:A:N3	24:BA:1309:G:C1'	2.73	0.51
24:BA:1403:C:H5''	24:BA:1471:A:O4'	2.11	0.51
24:BA:1442:G:H2'	24:BA:1442:G:N3	2.26	0.51
24:BA:1513:C:H2'	24:BA:1514:U:C5	2.46	0.51
24:BA:1559:G:N3	24:BA:1559:G:C2'	2.73	0.51
24:BA:1303:G:O2'	24:BA:1641:A:N1	2.43	0.51
24:BA:1718:G:O6	24:BA:1735:C:N4	2.43	0.51
24:BA:1787:A:C2'	24:BA:1788:C:H5'	2.40	0.51
24:BA:1917:U:C5	24:BA:1918:A:C4	2.98	0.51
24:BA:1949:G:C5	24:BA:1950:G:N7	2.79	0.51
24:BA:1957:C:O2	24:BA:1958:C:C5	2.64	0.51
24:BA:1968:G:HO2'	24:BA:1969:A:H8	1.59	0.51
24:BA:1995:U:H3'	24:BA:1995:U:C6	2.46	0.51
24:BA:1996:C:C5	24:BA:1996:C:OP1	2.63	0.51
24:BA:2014:A:C2	24:BA:2613:U:N3	2.79	0.51
24:BA:570:G:H2'	24:BA:2030:A:N6	2.26	0.51
24:BA:2232:U:N3	24:BA:2233:U:C5	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:859:G:O2'	24:BA:2268:A:C2	2.53	0.51
24:BA:226:G:O2'	24:BA:227:A:O4'	2.28	0.51
24:BA:2298:A:C3'	24:BA:2299:G:H8	2.24	0.51
24:BA:220:G:O2'	24:BA:233:A:N3	2.44	0.51
24:BA:253:C:O2	24:BA:253:C:H2'	2.11	0.51
24:BA:2754:U:H6	24:BA:2754:U:O5'	1.94	0.51
24:BA:2848:G:P	40:BS:99:LEU:HD12	2.51	0.51
24:BA:29:U:O2	24:BA:30:G:O6	2.28	0.51
24:BA:398:G:C2	24:BA:399:G:H1'	2.46	0.51
24:BA:484:C:C2'	24:BA:485:C:H6	2.13	0.51
24:BA:49:A:C5	24:BA:177:G:N1	2.79	0.51
24:BA:547:A:C6	24:BA:548:A:C6	2.99	0.51
24:BA:562:U:O2'	24:BA:563:G:H5'	2.11	0.51
24:BA:563:G:C2	24:BA:564:C:C4	2.99	0.51
24:BA:566:U:C6	24:BA:567:A:C8	2.98	0.51
24:BA:715:G:H2'	24:BA:716:A:O5'	2.11	0.51
24:BA:753:C:O2	24:BA:753:C:H2'	2.10	0.51
24:BA:789:A:OP1	24:BA:789:A:C3'	2.51	0.51
24:BA:852:G:C6	24:BA:853:G:N7	2.78	0.51
24:BA:8:A:H2'	24:BA:9:U:H6	1.76	0.51
24:BA:945:A:C3'	24:BA:946:G:H5''	2.40	0.51
25:BB:31:C:N3	25:BB:32:C:H5	2.06	0.51
25:BB:82:G:C2	25:BB:83:G:C8	2.98	0.51
24:BA:1902:C:H4'	27:BD:242:ARG:O	2.10	0.51
27:BD:80:ALA:CB	27:BD:96:HIS:ND1	2.73	0.51
28:BE:100:GLU:O	28:BE:172:VAL:HG22	2.11	0.51
24:BA:2682:U:C2	28:BE:21:VAL:HG21	2.46	0.51
28:BE:54:GLN:HB3	28:BE:57:LYS:CE	2.41	0.51
29:BF:119:ARG:CZ	29:BF:120:GLU:OE1	2.59	0.51
29:BF:133:ASN:CG	29:BF:162:LEU:HD13	2.31	0.51
29:BF:173:VAL:CG2	29:BF:174:VAL:N	2.74	0.51
29:BF:64:ILE:HG21	29:BF:78:ILE:HB	1.93	0.51
24:BA:675:A:H5''	29:BF:67:GLN:OE1	2.09	0.51
30:BG:8:LYS:CE	30:BG:100:TRP:HD1	2.23	0.51
15:AP:3:ARG:NH1	30:BG:113:ARG:CG	2.74	0.51
30:BG:122:PRO:O	30:BG:123:ASN:C	2.48	0.51
30:BG:76:SER:C	30:BG:78:SER:N	2.62	0.51
30:BG:9:ARG:HB2	30:BG:9:ARG:CZ	2.41	0.51
31:BH:42:ARG:CZ	31:BH:42:ARG:HA	2.41	0.51
24:BA:1096:A:N6	33:BL:30:HIS:CD2	2.78	0.51
24:BA:1063:G:H5'	33:BL:87:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:6:A:C4'	34:BM:132:ALA:O	2.55	0.51
34:BM:16:ILE:CD1	34:BM:53:VAL:O	2.57	0.51
36:BO:98:GLU:O	36:BO:100:LEU:HD23	2.11	0.51
37:BP:109:VAL:CG2	37:BP:113:GLN:HB2	2.38	0.51
37:BP:126:PRO:C	37:BP:127:ILE:CG1	2.78	0.51
37:BP:6:ARG:CG	37:BP:70:PRO:HB3	2.38	0.51
38:BQ:67:LEU:HD23	38:BQ:76:VAL:CG2	2.39	0.51
39:BR:26:LEU:CD1	39:BR:37:ALA:HB1	2.40	0.51
40:BS:17:THR:C	40:BS:19:LEU:N	2.64	0.51
40:BS:58:ASN:N	40:BS:61:PHE:CE2	2.77	0.51
41:BT:54:LYS:HE2	41:BT:54:LYS:HA	1.92	0.51
42:BU:10:LYS:O	42:BU:12:TYR:N	2.44	0.51
45:BX:97:ARG:CA	45:BX:101:LYS:CG	2.89	0.51
45:BX:2:ARG:CG	45:BX:3:VAL:H	2.22	0.51
46:BY:176:PRO:HB2	46:BY:179:ASP:H	1.75	0.51
46:BY:53:ILE:CG1	46:BY:58:VAL:HG21	2.32	0.51
47:BZ:46:LYS:CD	47:BZ:46:LYS:N	2.73	0.51
25:BB:11:C:OP1	47:BZ:75:LEU:HD11	2.11	0.51
47:BZ:76:GLY:C	47:BZ:78:TYR:HE1	2.14	0.51
3:AD:20:U:O2	3:AD:20:U:C2'	2.57	0.51
3:AD:48:C:OP1	3:AD:48:C:O4'	2.29	0.51
26:BC:213:TYR:HB3	26:BC:223:ARG:CA	2.23	0.51
26:BC:22:ILE:CG2	26:BC:186:ALA:HA	2.41	0.51
26:BC:54:SER:CA	26:BC:57:ASN:HD22	2.23	0.51
48:B1:1:MET:SD	48:B1:3:LYS:HB2	2.51	0.51
5:AF:60:ALA:HA	12:AM:92:THR:O	2.11	0.51
19:AT:100:LYS:HB3	19:AT:100:LYS:HZ2	1.74	0.51
1:AA:1384:C:H2'	1:AA:1385:G:O4'	2.09	0.51
1:AA:1064:G:O2'	1:AA:1065:U:H1'	2.10	0.51
1:AA:1102:A:C6	1:AA:1103:C:C4	2.99	0.51
1:AA:1227:A:C8	1:AA:1228:C:O4'	2.58	0.51
1:AA:1248:A:C2	1:AA:1249:C:N3	2.78	0.51
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.40	0.51
1:AA:1350:A:N6	1:AA:1373:G:N2	2.59	0.51
1:AA:971:G:C5	1:AA:1365:G:H5'	2.46	0.51
1:AA:1415:G:C2	1:AA:1416:G:C8	2.99	0.51
1:AA:1425:U:C2	1:AA:1426:C:C5	2.98	0.51
1:AA:1442:G:O5'	1:AA:1442:G:N3	2.44	0.51
1:AA:1418:A:N1	1:AA:1483:A:C6	2.79	0.51
1:AA:149:A:H2'	1:AA:150:C:C6	2.46	0.51
1:AA:1510:U:C2'	1:AA:1511:G:C8	2.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:G:O2'	1:AA:333:G:H5'	2.11	0.51
1:AA:570:G:C6	1:AA:866:C:N4	2.78	0.51
1:AA:577:G:O2'	1:AA:578:C:O5'	2.22	0.51
1:AA:629:G:C2	1:AA:630:G:C8	2.99	0.51
1:AA:686:U:H2'	1:AA:687:A:H8	1.76	0.51
1:AA:706:A:N3	1:AA:707:C:C6	2.78	0.51
1:AA:765:G:N2	1:AA:816:A:H2	2.06	0.51
1:AA:80:G:H2'	1:AA:81:G:C8	2.45	0.51
1:AA:851:G:C2	1:AA:852:G:C1'	2.94	0.51
1:AA:857:C:C2	1:AA:858:G:H1'	2.45	0.51
1:AA:85:U:H2'	1:AA:86:U:C5'	2.40	0.51
1:AA:85:U:O2'	1:AA:86:U:H5'	2.11	0.51
1:AA:872:A:C5	1:AA:874:G:C8	2.99	0.51
1:AA:958:A:H2'	1:AA:959:A:C8	2.45	0.51
3:AB:75:C:O2	24:BA:2508:G:C5'	2.54	0.51
4:AE:35:GLU:HG2	4:AE:39:ILE:O	2.11	0.51
4:AE:58:ILE:O	4:AE:61:LEU:CB	2.59	0.51
5:AF:179:ARG:O	5:AF:206:GLU:HG3	2.11	0.51
1:AA:438:G:H5''	6:AG:123:HIS:HB3	1.92	0.51
6:AG:17:VAL:O	6:AG:18:LYS:O	2.29	0.51
6:AG:76:ARG:HG3	6:AG:207:TYR:CE2	2.46	0.51
6:AG:60:GLU:O	6:AG:63:LYS:HD2	2.10	0.51
7:AH:14:ARG:HG2	7:AH:29:GLY:O	2.10	0.51
7:AH:20:GLN:NE2	7:AH:21:ALA:N	2.59	0.51
8:AI:11:ASN:ND2	8:AI:86:ARG:HH22	2.07	0.51
8:AI:52:ILE:CG2	8:AI:53:ALA:H	2.23	0.51
9:AJ:71:PRO:HD2	9:AJ:100:ALA:HB2	1.92	0.51
9:AJ:71:PRO:HD3	9:AJ:100:ALA:HB2	1.92	0.51
9:AJ:71:PRO:CG	9:AJ:96:GLN:HG3	2.40	0.51
10:AK:79:VAL:O	10:AK:80:ILE:C	2.47	0.51
12:AM:82:ILE:O	12:AM:86:MET:CB	2.56	0.51
12:AM:9:ARG:HG3	12:AM:95:GLU:OE2	2.11	0.51
13:AN:43:SER:CB	13:AN:64:ALA:HB1	2.40	0.51
13:AN:57:THR:OG1	13:AN:59:TYR:HB2	2.10	0.51
13:AN:58:PRO:CA	13:AN:90:GLY:HA3	2.41	0.51
1:AA:539:A:OP2	14:AO:115:LYS:CE	2.58	0.51
14:AO:35:GLY:HA3	14:AO:60:LEU:HB3	1.93	0.51
16:AQ:36:PHE:O	16:AQ:36:PHE:CD1	2.64	0.51
1:AA:657:G:H4'	17:AR:28:GLN:NE2	2.25	0.51
18:AS:58:TYR:O	18:AS:61:SER:HB3	2.11	0.51
49:B2:17:LYS:CA	49:B2:20:LYS:HZ3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:55:ARG:O	50:B3:61:ARG:NH2	2.44	0.51
24:BA:1066:U:O2	24:BA:1069:A:OP2	2.29	0.51
24:BA:1068:G:C6	24:BA:1073:A:N1	2.78	0.51
24:BA:1147:C:H2'	24:BA:1148:A:H5'	1.92	0.51
24:BA:70:G:H2'	24:BA:114:U:C5	2.46	0.51
24:BA:1163:G:N1	24:BA:1164:G:N7	2.59	0.51
24:BA:1183:G:O2'	24:BA:1184:G:OP2	2.25	0.51
24:BA:1189:A:N7	24:BA:1190:G:C8	2.78	0.51
24:BA:1203:G:H5'	24:BA:1205:U:OP2	2.11	0.51
24:BA:1299:G:H5'	24:BA:1301:A:C1'	2.39	0.51
24:BA:1426:G:C8	24:BA:1427:A:N7	2.79	0.51
24:BA:1455:G:OP2	24:BA:1456:G:OP2	2.29	0.51
24:BA:1471:A:N7	24:BA:1521:G:N2	2.59	0.51
24:BA:1540:G:H2'	24:BA:1541:U:H5'	1.92	0.51
24:BA:1541:U:O2	24:BA:1541:U:C2'	2.51	0.51
24:BA:1552:G:H5'	24:BA:1553:A:OP1	2.11	0.51
24:BA:1667:G:C2	24:BA:1991:U:C5	2.99	0.51
24:BA:742:G:O2'	24:BA:1676:A:H4'	2.10	0.51
24:BA:1879:C:C4	24:BA:1880:C:C4	2.99	0.51
24:BA:1913:A:C2	24:BA:1918:A:N7	2.78	0.51
24:BA:1834:U:H1'	24:BA:1969:A:N3	2.25	0.51
24:BA:2013:A:C2'	24:BA:2014:A:O5'	2.59	0.51
24:BA:205:G:O2'	24:BA:206:U:OP1	2.28	0.51
24:BA:209:C:H6	24:BA:209:C:O5'	1.94	0.51
24:BA:2323:G:N2	24:BA:2324:C:C2	2.79	0.51
24:BA:2353:G:O2'	47:BZ:35:ASN:ND2	2.43	0.51
24:BA:2377:A:N3	24:BA:2378:A:N7	2.58	0.51
24:BA:2676:C:C2	24:BA:2677:G:N7	2.79	0.51
24:BA:271(B):G:OP1	24:BA:271(C):U:O4'	2.28	0.51
24:BA:271:G:C2	24:BA:272:G:C8	2.99	0.51
24:BA:2779:U:C6	24:BA:2779:U:H3'	2.46	0.51
24:BA:2836:U:H2'	24:BA:2837:G:C8	2.46	0.51
24:BA:270(B):A:C5'	24:BA:366:C:O4'	2.57	0.51
24:BA:452:G:H5''	24:BA:453:C:OP2	2.10	0.51
24:BA:47:C:N3	24:BA:179:G:C6	2.78	0.51
24:BA:479:A:N3	24:BA:480:A:N7	2.58	0.51
24:BA:481:G:H2'	24:BA:507:A:H61	1.75	0.51
24:BA:531:C:H6	24:BA:532:A:C2	2.28	0.51
24:BA:606:U:O5'	24:BA:606:U:C6	2.52	0.51
24:BA:731:C:H2'	24:BA:732:C:C5'	2.41	0.51
24:BA:859:G:C8	24:BA:859:G:C3'	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:918:A:H3'	24:BA:918:A:N3	2.26	0.51
25:BB:57:A:C8	25:BB:57:A:C3'	2.94	0.51
25:BB:66:A:N1	25:BB:107:U:H2'	2.26	0.51
27:BD:157:ARG:CB	27:BD:160:GLY:O	2.56	0.51
24:BA:2618:G:C2	28:BE:150:VAL:HG11	2.46	0.51
28:BE:176:ILE:HD11	28:BE:179:GLU:HG2	1.93	0.51
24:BA:2735:G:H4'	28:BE:203:LYS:HE3	1.92	0.51
28:BE:4:ILE:HG23	28:BE:30:PRO:HG3	1.92	0.51
28:BE:37:ARG:O	28:BE:38:THR:CB	2.47	0.51
29:BF:12:LEU:HD22	29:BF:129:PHE:N	2.26	0.51
29:BF:149:ASP:HA	29:BF:172:TRP:HE1	1.76	0.51
29:BF:177:ALA:N	29:BF:178:PRO:CD	2.74	0.51
29:BF:117:ARG:HG3	29:BF:187:VAL:HA	1.93	0.51
29:BF:5:ALA:O	29:BF:20:LEU:HD13	2.11	0.51
29:BF:45:ARG:HD3	29:BF:97:TYR:CE1	2.46	0.51
30:BG:29:TRP:C	30:BG:31:VAL:N	2.56	0.51
30:BG:44:GLY:O	30:BG:72:ARG:O	2.28	0.51
31:BH:33:LEU:HD22	31:BH:75:ALA:CB	2.41	0.51
33:BL:105:LEU:CD2	33:BL:124:ALA:HB1	2.40	0.51
33:BL:10:LEU:CD1	33:BL:57:ILE:HD11	2.41	0.51
34:BM:69:GLN:HE21	34:BM:69:GLN:N	2.09	0.51
35:BN:10:VAL:CG1	35:BN:11:ALA:N	2.54	0.51
35:BN:68:GLU:O	35:BN:68:GLU:CG	2.52	0.51
36:BO:114:ILE:CG2	36:BO:134:ALA:HB2	2.41	0.51
29:BF:34:TRP:CE3	36:BO:8:PRO:HB2	2.46	0.51
37:BP:131:ILE:O	37:BP:132:VAL:CG1	2.57	0.51
38:BQ:61:HIS:O	38:BQ:64:ARG:N	2.44	0.51
38:BQ:61:HIS:CE1	38:BQ:64:ARG:CZ	2.92	0.51
38:BQ:99:LYS:O	51:B4:44:THR:HG22	2.11	0.51
39:BR:103:GLU:C	39:BR:106:ARG:HB3	2.32	0.51
40:BS:103:ARG:O	40:BS:107:ASP:OD1	2.28	0.51
40:BS:30:VAL:CG2	40:BS:31:SER:N	2.73	0.51
41:BT:45:TYR:O	41:BT:46:ALA:C	2.49	0.51
41:BT:97:ASP:C	41:BT:101:ARG:NE	2.56	0.51
42:BU:4:ILE:HA	42:BU:12:TYR:CE2	2.45	0.51
42:BU:57:VAL:CG1	42:BU:58:VAL:N	2.64	0.51
42:BU:68:LYS:CG	42:BU:95:LEU:HD11	2.41	0.51
41:BT:50:ARG:NE	42:BU:75:PHE:HE2	2.02	0.51
42:BU:79:VAL:HB	42:BU:81:TYR:CD1	2.45	0.51
42:BU:81:TYR:O	42:BU:82:ARG:CB	2.56	0.51
43:BV:25:ARG:O	43:BV:71:VAL:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:34:ASN:ND2	43:BV:34:ASN:N	2.59	0.51
24:BA:24:G:H1'	43:BV:77:ASP:OD1	2.10	0.51
44:BW:50:LYS:O	44:BW:52:VAL:HG23	2.11	0.51
24:BA:1313:U:OP1	44:BW:63:LYS:HG2	2.11	0.51
24:BA:1335:U:OP2	44:BW:65:ARG:CZ	2.58	0.51
45:BX:32:PRO:HB2	45:BX:34:LYS:CE	2.40	0.51
45:BX:7:VAL:C	45:BX:8:LYS:HD2	2.30	0.51
46:BY:18:LEU:O	46:BY:19:ARG:C	2.48	0.51
46:BY:20:ARG:HH11	46:BY:20:ARG:HG3	1.74	0.51
46:BY:39:VAL:HG12	46:BY:39:VAL:O	2.11	0.51
46:BY:53:ILE:O	46:BY:53:ILE:HG22	2.11	0.51
46:BY:91:LEU:CD1	46:BY:95:PRO:HG3	2.41	0.51
26:BC:209:LEU:HG	26:BC:212:VAL:HG23	1.92	0.51
14:AO:126:LYS:HZ2	14:AO:128:ALA:N	2.06	0.51
3:AD:40:C:H3'	3:AD:41:C:H5''	1.91	0.51
24:BA:2106:G:C6	24:BA:2184:G:C6	2.99	0.51
1:AA:513:C:C4	1:AA:514:C:C5	2.98	0.51
1:AA:1071:C:N4	1:AA:1084:G:N2	2.58	0.51
1:AA:1198:G:O2'	1:AA:1199:U:H5'	2.11	0.51
1:AA:1230:C:O2	15:AP:126:LYS:CD	2.58	0.51
1:AA:1276:G:O2'	1:AA:1277:C:H5'	2.10	0.51
1:AA:135:C:C6	1:AA:135:C:C3'	2.93	0.51
1:AA:1399:C:C4	1:AA:1502:A:N6	2.77	0.51
1:AA:192:U:H5'	22:AW:102:GLY:HA2	1.91	0.51
1:AA:300:A:O5'	1:AA:300:A:H8	1.94	0.51
1:AA:306:G:O5'	1:AA:306:G:C8	2.64	0.51
1:AA:40:C:O2'	1:AA:41:G:H5'	2.10	0.51
1:AA:411:A:C5	1:AA:429:U:C4	2.99	0.51
1:AA:44:G:H2'	1:AA:45:U:O5'	2.10	0.51
1:AA:474:G:H2'	1:AA:475:G:H8	1.76	0.51
1:AA:494:U:C2'	1:AA:495:A:H5'	2.41	0.51
1:AA:527:G:H2'	1:AA:528:C:C6	2.46	0.51
1:AA:531:U:H5''	1:AA:532:A:OP1	2.11	0.51
1:AA:782:A:N1	1:AA:801:U:C2	2.78	0.51
4:AE:97:TRP:CZ3	4:AE:172:ILE:HB	2.46	0.51
4:AE:59:GLU:O	4:AE:62:ALA:HB3	2.11	0.51
4:AE:58:ILE:O	4:AE:61:LEU:CD2	2.58	0.51
5:AF:108:ASN:O	5:AF:110:ASN:N	2.44	0.51
5:AF:116:VAL:C	5:AF:119:ARG:HB3	2.30	0.51
6:AG:147:ALA:O	6:AG:149:ALA:N	2.43	0.51
6:AG:30:LYS:CG	6:AG:35:ARG:HD2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:81:GLU:O	6:AG:85:LYS:HB2	2.11	0.51
7:AH:133:TYR:O	7:AH:136:MET:HB2	2.11	0.51
7:AH:94:ALA:HB1	7:AH:98:THR:CG2	2.31	0.51
8:AI:79:LEU:O	8:AI:81:ILE:N	2.44	0.51
1:AA:1298:C:C6	9:AJ:114:ARG:NH1	2.79	0.51
9:AJ:16:LEU:HD12	11:AL:44:VAL:HG23	1.93	0.51
10:AK:11:THR:HA	10:AK:14:ARG:NH2	2.25	0.51
10:AK:26:VAL:HG13	10:AK:27:PRO:HD2	1.91	0.51
10:AK:39:LEU:HB3	10:AK:45:ILE:CG2	2.38	0.51
10:AK:6:ILE:HG21	10:AK:85:ARG:NH2	2.26	0.51
11:AL:11:LYS:N	11:AL:104:ARG:NH2	2.55	0.51
11:AL:49:PRO:HG3	11:AL:81:ILE:HB	1.92	0.51
13:AN:126:ARG:CZ	13:AN:126:ARG:HB3	2.41	0.51
1:AA:684:A:C3'	13:AN:12:ARG:HH22	2.23	0.51
13:AN:41:THR:HB	13:AN:71:LYS:HD3	1.92	0.51
5:AF:12:LEU:CD2	16:AQ:58:LYS:H	2.20	0.51
18:AS:75:ARG:O	18:AS:78:GLY:N	2.44	0.51
19:AT:29:HIS:CE1	19:AT:31:LEU:HB3	2.46	0.51
19:AT:63:ARG:CG	19:AT:64:PRO:HD2	2.38	0.51
19:AT:81:ARG:HG3	19:AT:84:LEU:HG	1.93	0.51
20:AU:26:LEU:HB2	20:AU:42:ARG:NH1	2.26	0.51
49:B2:31:LEU:HB3	49:B2:32:GLN:HE22	1.74	0.51
49:B2:35:ARG:HH22	49:B2:47:VAL:HG13	1.76	0.51
50:B3:14:ILE:CG1	50:B3:39:CYS:HB2	2.39	0.51
51:B4:10:LYS:CE	51:B4:15:ARG:CZ	2.86	0.51
24:BA:2046:G:H4'	51:B4:22:HIS:HB3	1.93	0.51
38:BQ:99:LYS:HG2	51:B4:43:HIS:CD2	2.45	0.51
54:B7:26:LYS:O	54:B7:28:GLY:N	2.43	0.51
54:B7:44:LYS:NZ	54:B7:44:LYS:HA	2.26	0.51
24:BA:1013:C:H2'	24:BA:1014:U:H6	1.76	0.51
24:BA:996:A:C6	24:BA:1160:G:C2	2.99	0.51
24:BA:1224:G:N7	24:BA:1225:C:C5	2.79	0.51
24:BA:1227:A:H2'	24:BA:1228:G:C5'	2.41	0.51
24:BA:1300:U:O2'	24:BA:1301:A:OP2	2.28	0.51
24:BA:1332:G:H5''	24:BA:1333:C:OP2	2.11	0.51
24:BA:1397:U:OP1	24:BA:1398:C:H5	1.94	0.51
24:BA:141(A):C:C2'	24:BA:142:G:H5'	2.41	0.51
24:BA:1476:C:C5	24:BA:1477:A:C6	2.98	0.51
24:BA:1543:A:H3'	24:BA:1544:C:C5'	2.41	0.51
24:BA:1568:G:P	27:BD:61:LEU:HG	2.51	0.51
24:BA:1575:C:N4	24:BA:1576:U:N3	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1394:U:C4'	24:BA:1603:A:H4'	2.38	0.51
24:BA:1613:G:C1'	53:B6:3:ARG:CZ	2.89	0.51
24:BA:1620:G:H2'	24:BA:1621:U:C6	2.46	0.51
24:BA:1753:G:O6	24:BA:1756:G:C6	2.64	0.51
24:BA:179:G:OP1	53:B6:32:LYS:NZ	2.30	0.51
24:BA:1804:C:C2	24:BA:1805:U:C5	2.98	0.51
24:BA:1970:A:C2'	24:BA:1971:A:OP2	2.59	0.51
24:BA:1980:G:H2'	24:BA:1982:C:OP2	2.11	0.51
24:BA:1854:A:H1'	24:BA:2087:G:N2	2.25	0.51
24:BA:2205:C:C2'	24:BA:2206:C:H5'	2.40	0.51
24:BA:2244:U:H2'	24:BA:2245:U:O5'	2.09	0.51
24:BA:2373:G:H2'	24:BA:2374:C:C5	2.46	0.51
24:BA:2398:U:H2'	24:BA:2399:G:C8	2.45	0.51
24:BA:792:G:C6	24:BA:2440:C:N1	2.78	0.51
24:BA:2533:A:H2'	24:BA:2534:A:O4'	2.10	0.51
24:BA:2544:G:C6	24:BA:2545:G:C5	2.98	0.51
24:BA:746:A:N7	24:BA:2612:C:OP1	2.44	0.51
24:BA:2653:U:N3	24:BA:2654:A:C6	2.79	0.51
24:BA:2662:A:H2'	24:BA:2662:A:N3	2.25	0.51
24:BA:2707:G:C2'	24:BA:2708:G:O5'	2.58	0.51
24:BA:2867:G:H5'	24:BA:2868:A:OP1	2.11	0.51
24:BA:2886:G:N2	24:BA:2887:U:C1'	2.74	0.51
24:BA:327:G:N2	24:BA:328:U:C2	2.79	0.51
24:BA:416:C:C6	24:BA:416:C:H3'	2.46	0.51
24:BA:481:G:O2'	24:BA:482:A:H8	1.92	0.51
24:BA:498:G:C8	24:BA:498:G:O5'	2.61	0.51
24:BA:27:G:C2	24:BA:512:G:C2'	2.93	0.51
24:BA:605:C:H4'	29:BF:102:PRO:HG3	1.91	0.51
24:BA:611:C:O2	24:BA:616:A:C2	2.63	0.51
24:BA:758:C:H2'	24:BA:759:G:H8	1.75	0.51
24:BA:733:G:C5	24:BA:761:A:C6	2.99	0.51
24:BA:774:A:H5''	24:BA:778:G:C4'	2.40	0.51
24:BA:78:A:H2'	24:BA:79:G:C8	2.45	0.51
24:BA:879:G:N1	24:BA:880:G:C5	2.78	0.51
24:BA:879:G:N2	24:BA:880:G:C4	2.79	0.51
24:BA:993:G:C5	24:BA:994:C:N4	2.79	0.51
25:BB:47:C:H6	25:BB:47:C:O5'	1.93	0.51
25:BB:79:C:H2'	25:BB:80:U:C5'	2.41	0.51
27:BD:13:ARG:NH2	27:BD:19:ALA:HB1	2.25	0.51
27:BD:225:ALA:HB3	27:BD:231:HIS:NE2	2.25	0.51
27:BD:55:GLY:N	27:BD:218:ARG:CD	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:27:THR:CG2	27:BD:82:ILE:HG21	2.41	0.51
28:BE:66:HIS:NE2	28:BE:71:GLY:N	2.59	0.51
30:BG:110:ALA:HB2	30:BG:139:LEU:HD11	1.92	0.51
24:BA:2312:U:OP2	30:BG:86:MET:HG2	2.09	0.51
31:BH:101:ARG:C	31:BH:117:PRO:HD3	2.31	0.51
33:BL:33:ASN:H	33:BL:37:PHE:HD1	1.56	0.51
24:BA:1060:U:OP1	33:BL:73:PRO:HB3	2.11	0.51
34:BM:112:LEU:O	34:BM:114:ARG:N	2.44	0.51
35:BN:41:ALA:O	35:BN:56:ASP:CA	2.59	0.51
35:BN:15:GLY:HA2	35:BN:47:ILE:CG1	2.41	0.51
36:BO:80:TYR:CE2	36:BO:85:LEU:HD22	2.46	0.51
37:BP:46:GLN:OE1	37:BP:125:LEU:O	2.28	0.51
38:BQ:47:PHE:O	38:BQ:48:VAL:C	2.49	0.51
38:BQ:25:ALA:HB2	38:BQ:48:VAL:HG22	1.93	0.51
38:BQ:55:ALA:HA	38:BQ:80:PHE:HD1	1.75	0.51
38:BQ:63:ARG:HH12	38:BQ:80:PHE:CB	2.24	0.51
39:BR:31:SER:HB3	39:BR:34:HIS:CG	2.45	0.51
39:BR:49:VAL:HG22	39:BR:76:LYS:HZ1	1.75	0.51
40:BS:54:ARG:HE	40:BS:100:TYR:HD1	1.59	0.51
40:BS:30:VAL:CB	40:BS:90:GLN:HA	2.39	0.51
42:BU:83:ARG:HH21	42:BU:85:LYS:HE2	1.76	0.51
43:BV:74:ALA:O	43:BV:75:TYR:CD2	2.64	0.51
43:BV:89:ALA:C	43:BV:91:GLY:N	2.63	0.51
44:BW:24:GLY:O	44:BW:83:VAL:CG2	2.58	0.51
44:BW:32:PRO:O	44:BW:33:LYS:HB2	2.11	0.51
46:BY:100:VAL:HG12	46:BY:133:ILE:HD13	1.93	0.51
46:BY:111:VAL:HG22	46:BY:117:LEU:HA	1.93	0.51
46:BY:16:SER:O	46:BY:19:ARG:HB2	2.11	0.51
46:BY:41:LEU:O	46:BY:45:ASP:OD1	2.29	0.51
46:BY:68:PRO:O	46:BY:90:VAL:CA	2.55	0.51
46:BY:9:TYR:HB3	46:BY:14:LYS:HG2	1.93	0.51
47:BZ:20:ARG:O	47:BZ:21:LEU:HB3	2.10	0.51
24:BA:858:U:OP1	47:BZ:44:ARG:NH2	2.43	0.51
32:BK:137:PRO:HB2	32:BK:139:GLN:NE2	2.25	0.51
32:BK:62:LYS:O	32:BK:66:GLU:OE1	2.28	0.51
24:BA:2118:U:C6	24:BA:2147:G:O6	2.64	0.51
24:BA:2119:A:N1	24:BA:2171:A:C6	2.79	0.51
26:BC:21:THR:HG21	26:BC:228:SER:HB3	1.93	0.51
24:BA:1588:C:H2'	24:BA:1589:C:C6	2.44	0.51
1:AA:491:G:O2'	1:AA:492:G:H5'	2.10	0.51
2:A1:30:U:C5'	2:A1:30:U:H6	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1026:G:C8	1:AA:1027:C:H6	2.28	0.51
1:AA:1049:U:O4	16:AQ:3:ARG:HB2	2.11	0.51
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.46	0.51
1:AA:1064:G:N3	1:AA:1066:C:C4	2.78	0.51
1:AA:1212:U:O2'	1:AA:1213:A:H8	1.92	0.51
1:AA:1251:A:C4'	1:AA:1370:G:H4'	2.41	0.51
1:AA:1465:C:C2'	1:AA:1466:C:O5'	2.59	0.51
1:AA:191(D):U:O2'	1:AA:191(E):G:H5'	2.11	0.51
1:AA:270:A:OP2	1:AA:270:A:H8	1.94	0.51
1:AA:323:U:C5	1:AA:324:G:C1'	2.94	0.51
1:AA:380:G:N2	1:AA:383:A:OP2	2.44	0.51
1:AA:27:G:H22	1:AA:557:G:H1'	1.73	0.51
1:AA:759:A:N6	1:AA:760:G:C2	2.79	0.51
1:AA:795:C:C4'	1:AA:1506:U:C2	2.94	0.51
1:AA:848:C:C2	1:AA:849:C:C6	2.98	0.51
1:AA:872:A:C2'	1:AA:873:A:C5'	2.82	0.51
1:AA:955:U:H2'	1:AA:956:U:H6	1.76	0.51
1:AA:967:C:H2'	1:AA:968:A:C8	2.45	0.51
1:AA:1054:C:H41	3:AB:34:G:HO2'	1.57	0.51
3:AB:39:U:H2'	3:AB:40:C:O4'	2.11	0.51
3:AD:75:C:H5''	3:AD:76:A:C1'	2.41	0.51
4:AE:101:MET:HB3	4:AE:105:PHE:CE1	2.46	0.51
5:AF:37:GLN:O	5:AF:38:ARG:C	2.47	0.51
6:AG:31:CYS:C	6:AG:33:MET:N	2.64	0.51
6:AG:13:ARG:HA	6:AG:32:ALA:CB	2.41	0.51
6:AG:8:VAL:O	6:AG:11:LEU:HB2	2.11	0.51
7:AH:63:ARG:C	7:AH:66:MET:HG2	2.30	0.51
8:AI:12:PRO:C	8:AI:14:LEU:H	2.14	0.51
8:AI:2:ARG:NE	8:AI:69:GLU:HG2	2.26	0.51
9:AJ:135:VAL:O	9:AJ:139:GLU:OE2	2.29	0.51
9:AJ:42:ILE:HD13	9:AJ:116:ALA:CB	2.41	0.51
9:AJ:72:ARG:HG3	9:AJ:73:MET:N	2.24	0.51
11:AL:49:PRO:HB3	11:AL:101:PHE:CZ	2.46	0.51
11:AL:47:LEU:HD11	11:AL:50:LEU:HD22	1.93	0.51
1:AA:1151:A:P	12:AM:41:PRO:HA	2.50	0.51
13:AN:82:VAL:CG1	13:AN:108:ILE:HG23	2.40	0.51
15:AP:73:GLU:O	15:AP:74:VAL:C	2.50	0.51
1:AA:750:G:H1'	17:AR:22:THR:C	2.31	0.51
17:AR:78:TYR:C	17:AR:78:TYR:CD2	2.84	0.51
17:AR:70:LEU:CD2	17:AR:81:LEU:HD13	2.41	0.51
18:AS:54:GLU:O	18:AS:57:ARG:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:57:ARG:O	18:AS:58:TYR:C	2.48	0.51
19:AT:32:TYR:O	19:AT:33:GLY:C	2.48	0.51
19:AT:56:VAL:C	19:AT:57:VAL:CG1	2.79	0.51
19:AT:60:ILE:HD13	19:AT:62:SER:HG	1.73	0.51
20:AU:22:VAL:HG22	20:AU:55:ARG:NH1	2.25	0.51
8:AI:97:PHE:CE2	20:AU:31:LEU:HD22	2.46	0.51
21:AV:30:LEU:CG	21:AV:50:ALA:HB2	2.41	0.51
22:AW:13:LEU:CD1	22:AW:13:LEU:H	1.99	0.51
22:AW:37:SER:O	22:AW:41:ILE:HG13	2.09	0.51
22:AW:88:VAL:O	22:AW:92:LEU:HD12	2.11	0.51
52:B5:19:ARG:HH11	52:B5:43:CYS:CB	2.20	0.51
24:BA:243:U:H5'	54:B7:5:LYS:HZ1	1.76	0.51
24:BA:1045:A:P	24:BA:1111:A:H2	2.33	0.51
24:BA:1085:A:O2'	24:BA:1086:A:OP2	2.28	0.51
24:BA:331:A:N6	24:BA:1209:G:H2'	2.24	0.51
24:BA:1226:G:C3'	24:BA:1226:G:C8	2.93	0.51
24:BA:1228:G:H8	24:BA:1228:G:H5'	1.76	0.51
24:BA:1301:A:O2'	24:BA:1302:A:H8	1.92	0.51
24:BA:1466:G:O4'	24:BA:1545(A):A:C2	2.64	0.51
24:BA:13:A:O2'	24:BA:14:A:O5'	2.20	0.51
24:BA:1519:G:H3'	24:BA:1520:U:N1	2.26	0.51
24:BA:1619:G:C2	24:BA:1620:G:C4	2.99	0.51
24:BA:1743:G:C5	24:BA:1746:G:N7	2.79	0.51
24:BA:1754:C:C2	24:BA:1755:A:N9	2.79	0.51
24:BA:1756:G:H3'	24:BA:1756:G:OP1	2.11	0.51
24:BA:1817:G:P	27:BD:88:ARG:NH1	2.76	0.51
24:BA:1871:A:H2'	24:BA:1872:A:H8	1.75	0.51
24:BA:1942:C:H3'	24:BA:1942:C:OP2	2.11	0.51
24:BA:195:A:C4	24:BA:198:C:N4	2.79	0.51
24:BA:2018:G:OP1	24:BA:2019:A:OP2	2.28	0.51
24:BA:2195:C:C2'	24:BA:2196:C:O4'	2.57	0.51
24:BA:228:A:N6	24:BA:230:U:N3	2.59	0.51
24:BA:2365:G:H4'	47:BZ:60:PHE:CE2	2.45	0.51
24:BA:2400:G:C6	24:BA:2401:U:N3	2.79	0.51
24:BA:412:A:N6	24:BA:2411:A:O2'	2.44	0.51
24:BA:2521:C:C5	24:BA:2522:U:C5	2.99	0.51
24:BA:2507:C:H1'	24:BA:2583:G:H21	1.75	0.51
24:BA:2607:G:N2	24:BA:2608:G:H1'	2.25	0.51
24:BA:2639:A:H2'	24:BA:2640:G:O5'	2.11	0.51
24:BA:263:C:N3	24:BA:264:C:C6	2.79	0.51
24:BA:2716:U:H2'	24:BA:2717:G:C8	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2785:C:C4	24:BA:2786:U:C4	2.99	0.51
24:BA:1709:U:C1'	24:BA:2860:A:H1'	2.39	0.51
24:BA:247:G:O3'	24:BA:386:G:N2	2.44	0.51
24:BA:450:G:H3'	24:BA:451:C:H5'	1.93	0.51
24:BA:533:G:C5	24:BA:534:U:N3	2.79	0.51
24:BA:552:G:C5	24:BA:553:U:C5	2.98	0.51
24:BA:616:A:P	24:BA:616:A:H3'	2.51	0.51
24:BA:696:G:O2'	24:BA:697:C:C5'	2.59	0.51
24:BA:795:C:C2	24:BA:796:C:C5	2.99	0.51
24:BA:822:U:O2'	24:BA:823:G:OP1	2.22	0.51
24:BA:84:A:N6	24:BA:99:U:O2'	2.44	0.51
24:BA:977:G:N7	24:BA:987:G:N1	2.58	0.51
25:BB:100:G:C2'	25:BB:101:A:H8	2.19	0.51
25:BB:117:G:N2	25:BB:118:G:N9	2.59	0.51
25:BB:80:U:C2'	25:BB:81:G:C8	2.93	0.51
27:BD:111:LEU:HD12	27:BD:115:GLN:OE1	2.11	0.51
27:BD:136:ILE:H	27:BD:168:ARG:HH22	1.56	0.51
27:BD:199:ALA:O	27:BD:200:ASP:C	2.48	0.51
27:BD:244:ARG:C	27:BD:252:TRP:CD1	2.84	0.51
27:BD:63:ARG:HH12	27:BD:86:PRO:HD2	1.76	0.51
27:BD:89:SER:O	27:BD:202:LYS:HE3	2.11	0.51
28:BE:185:LYS:O	28:BE:185:LYS:CG	2.58	0.51
28:BE:38:THR:O	28:BE:42:ASP:OD2	2.28	0.51
29:BF:98:SER:O	29:BF:99:TYR:CB	2.58	0.51
30:BG:8:LYS:HD3	30:BG:8:LYS:O	2.09	0.51
31:BH:25:LYS:HZ3	31:BH:32:GLU:CB	2.19	0.51
32:BK:31:LEU:O	32:BK:32:PRO:C	2.47	0.51
33:BL:27:LEU:HB3	33:BL:32:ALA:HB3	1.93	0.51
34:BM:106:MET:O	34:BM:108:PRO:HD3	2.10	0.51
34:BM:70:LYS:HZ3	34:BM:86:PRO:HB3	1.76	0.51
35:BN:9:GLU:HB2	35:BN:82:ASN:CB	2.27	0.51
36:BO:126:VAL:HG23	36:BO:127:ALA:N	2.25	0.51
36:BO:122:PRO:CG	36:BO:138:LEU:N	2.74	0.51
36:BO:64:LYS:O	36:BO:64:LYS:CD	2.59	0.51
38:BQ:28:LEU:HD13	38:BQ:28:LEU:C	2.31	0.51
39:BR:38:GLN:O	39:BR:38:GLN:HG3	2.11	0.51
40:BS:3:ARG:O	40:BS:6:LEU:CD2	2.57	0.51
40:BS:93:ARG:CD	40:BS:93:ARG:N	2.74	0.51
40:BS:97:ALA:O	40:BS:99:LEU:N	2.42	0.51
41:BT:25:TRP:O	41:BT:28:ARG:HG2	2.10	0.51
41:BT:65:ILE:O	41:BT:68:ALA:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:15:GLU:C	42:BU:100:ARG:NH2	2.64	0.51
42:BU:21:ARG:O	42:BU:93:GLU:OE1	2.29	0.51
44:BW:26:TYR:HB3	44:BW:28:PHE:CE1	2.46	0.51
44:BW:58:HIS:NE2	44:BW:77:LYS:NZ	2.56	0.51
46:BY:120:ILE:HB	46:BY:123:ASP:CG	2.32	0.51
46:BY:71:VAL:HG11	46:BY:74:VAL:HG23	1.91	0.51
32:BK:115:ALA:HB2	32:BK:129:THR:C	2.32	0.51
32:BK:114:LEU:C	32:BK:130:TYR:HA	2.32	0.51
32:BK:76:THR:N	32:BK:141:LYS:HE2	2.26	0.51
32:BK:57:ARG:HG2	32:BK:61:ARG:NH2	2.26	0.51
26:BC:163:PHE:HB3	26:BC:171:ILE:HD12	1.92	0.51
26:BC:181:PRO:O	26:BC:184:LYS:HB2	2.11	0.51
48:B1:7:GLU:C	48:B1:10:LYS:HG2	2.30	0.51
6:AG:159:ARG:O	6:AG:163:GLU:HB3	2.11	0.51
1:AA:219:C:O5'	1:AA:219:C:H6	1.94	0.51
29:BF:146:ALA:O	29:BF:148:LEU:HD22	2.10	0.51
1:AA:1094:G:H3'	1:AA:1108:G:H22	1.76	0.51
1:AA:1124:G:N2	1:AA:1126:U:N3	2.39	0.51
1:AA:1224:G:O6	1:AA:1322:C:C1'	2.59	0.51
1:AA:1320:C:H3'	1:AA:1321:C:C5	2.46	0.51
1:AA:1321:C:C6	1:AA:1321:C:C3'	2.94	0.51
1:AA:1326:C:C2	1:AA:1327:C:C6	2.99	0.51
1:AA:1339:A:C2	3:AC:31:A:O2'	2.64	0.51
1:AA:1419:G:C6	1:AA:1482:G:C2	2.99	0.51
1:AA:1506:U:O4	1:AA:1521:G:O3'	2.27	0.51
1:AA:16:A:H2'	1:AA:16:A:N3	2.26	0.51
1:AA:247:G:C6	1:AA:248:C:C5	2.99	0.51
1:AA:254:G:O6	1:AA:273:A:N6	2.44	0.51
1:AA:450:G:H5''	1:AA:451:A:O5'	2.11	0.51
1:AA:498:A:O2'	1:AA:500:G:O4'	2.26	0.51
1:AA:25:C:H4'	1:AA:524:G:N3	2.25	0.51
1:AA:598:U:N3	1:AA:599:C:C5	2.78	0.51
1:AA:688:G:C6	1:AA:700:G:C6	2.99	0.51
1:AA:692:U:N3	1:AA:695:A:OP2	2.44	0.51
1:AA:896:C:H2'	1:AA:897:C:H6	1.76	0.51
1:AA:957:U:O2	1:AA:959:A:C8	2.64	0.51
3:AC:74:C:H6	3:AC:75:C:H5''	1.76	0.51
3:AD:32:U:H1'	9:AJ:86:GLN:CD	2.31	0.51
4:AE:152:PHE:CG	4:AE:153:ARG:N	2.77	0.51
4:AE:20:GLU:N	4:AE:39:ILE:HD11	2.25	0.51
4:AE:28:PHE:CD1	4:AE:32:ILE:HD12	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:182:ILE:HD11	5:AF:203:PHE:CD1	2.46	0.51
5:AF:179:ARG:HD2	5:AF:206:GLU:OE1	2.10	0.51
5:AF:39:ILE:HG21	5:AF:57:ILE:CD1	2.40	0.51
5:AF:52:LEU:O	5:AF:53:ALA:CB	2.59	0.51
5:AF:78:GLY:O	5:AF:80:GLY:N	2.43	0.51
6:AG:79:PHE:HE1	6:AG:204:ILE:HG23	1.75	0.51
8:AI:40:VAL:HA	8:AI:63:TYR:CD1	2.46	0.51
9:AJ:20:ASP:OD1	9:AJ:22:LEU:HB2	2.10	0.51
9:AJ:78:ARG:NE	9:AJ:80:VAL:HG23	2.26	0.51
12:AM:9:ARG:HH11	12:AM:9:ARG:HB2	1.75	0.51
14:AO:62:SER:C	14:AO:64:TYR:N	2.62	0.51
1:AA:1308:U:H6	15:AP:99:ARG:HH12	1.49	0.51
16:AQ:27:CYS:O	16:AQ:40:CYS:SG	2.69	0.51
16:AQ:41:ARG:O	16:AQ:44:LEU:HB3	2.11	0.51
17:AR:79:ARG:CB	17:AR:79:ARG:NH1	2.74	0.51
19:AT:101:ARG:N	19:AT:101:ARG:HD2	2.25	0.51
19:AT:59:ILE:HG12	19:AT:71:PHE:HB3	1.93	0.51
19:AT:88:TYR:HA	19:AT:91:ARG:HE	1.76	0.51
1:AA:1014:A:O3'	21:AV:14:HIS:HE1	1.94	0.51
23:AX:7:ARG:O	23:AX:12:LYS:HD3	2.11	0.51
23:AX:3:LYS:HZ2	23:AX:13:ILE:HG21	1.75	0.51
49:B2:9:VAL:CG1	49:B2:54:VAL:HA	2.33	0.51
24:BA:1365:A:OP2	50:B3:3:GLU:OE2	2.29	0.51
50:B3:68:ARG:CD	50:B3:68:ARG:H	2.19	0.51
50:B3:68:ARG:O	50:B3:71:ARG:HA	2.11	0.51
24:BA:650:C:P	54:B7:21:LYS:HZ1	2.33	0.51
24:BA:1128:A:C6	24:BA:1129:A:N1	2.79	0.51
24:BA:1024:G:C6	24:BA:1134:G:H1'	2.46	0.51
24:BA:1168:G:C6	24:BA:1169:G:C6	2.98	0.51
24:BA:116:C:H2'	24:BA:117:G:O5'	2.10	0.51
24:BA:1180:C:C2'	24:BA:1181:C:C6	2.89	0.51
24:BA:126:A:O2'	24:BA:127:A:H5'	2.11	0.51
24:BA:1475:G:C2	24:BA:1476:C:C6	2.98	0.51
24:BA:1476:C:H2'	24:BA:1476:C:O2	2.11	0.51
24:BA:1464:C:C4'	24:BA:1528:A:O2'	2.59	0.51
24:BA:1531:C:C2	24:BA:1532:C:C5	2.97	0.51
24:BA:415:A:O4'	24:BA:1869:G:H5''	2.11	0.51
24:BA:1892:C:N4	24:BA:1893:C:N4	2.58	0.51
24:BA:1897:G:N1	24:BA:1898:U:C2	2.79	0.51
24:BA:1899:G:H3'	24:BA:1899:G:H8	1.75	0.51
24:BA:1956:U:H6	24:BA:1956:U:C5'	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1964:G:HO2'	24:BA:1965:C:P	2.33	0.51
24:BA:1992:G:H1'	24:BA:1993:U:O4	2.11	0.51
24:BA:1997:G:H5'	28:BE:123:ALA:CB	2.41	0.51
24:BA:1999:C:C2	24:BA:2000:G:C8	2.99	0.51
24:BA:2000:G:OP2	38:BQ:2:ARG:CG	2.59	0.51
24:BA:2006:C:O3'	24:BA:2823:A:H2	1.94	0.51
24:BA:2007:C:H5'	24:BA:2824:C:H1'	1.93	0.51
24:BA:203:C:C6	24:BA:204:A:N7	2.79	0.51
24:BA:208:C:H2'	24:BA:209:C:C6	2.46	0.51
24:BA:2209:C:C3'	24:BA:2209:C:C6	2.94	0.51
24:BA:2209:C:H6	24:BA:2209:C:H3'	1.75	0.51
24:BA:2301:C:C2	24:BA:2302:G:C8	2.99	0.51
24:BA:2321:G:C2'	24:BA:2321:G:N3	2.73	0.51
24:BA:2569:G:C4	24:BA:2570:G:C8	2.99	0.51
24:BA:2584:U:C3'	24:BA:2584:U:H6	2.22	0.51
24:BA:2627:G:C2'	24:BA:2628:C:C5'	2.87	0.51
24:BA:2711:A:H3'	24:BA:2714:G:O4'	2.11	0.51
24:BA:387:U:O2'	24:BA:388:G:C8	2.62	0.51
24:BA:458:G:H3'	53:B6:39:ARG:HD2	1.93	0.51
24:BA:471:A:N7	24:BA:472:A:N7	2.59	0.51
24:BA:609:A:C8	24:BA:609(A):G:N7	2.79	0.51
24:BA:625:G:H1	36:BO:100:LEU:HB3	1.76	0.51
24:BA:630:G:H4'	54:B7:46:ARG:HH22	1.75	0.51
24:BA:716:A:C8	24:BA:717:G:C8	2.99	0.51
24:BA:751:A:N7	24:BA:789:A:N6	2.59	0.51
24:BA:922:U:H2'	24:BA:923:C:C5	2.46	0.51
27:BD:120:GLY:O	27:BD:131:LEU:CD1	2.48	0.51
27:BD:148:GLU:O	27:BD:149:PRO:C	2.50	0.51
27:BD:77:ALA:HB1	27:BD:95:LEU:CD1	2.40	0.51
27:BD:90:ALA:HA	27:BD:91:ARG:HH12	1.74	0.51
27:BD:92:ILE:HG13	27:BD:93:ALA:N	2.26	0.51
24:BA:2787:C:H5''	28:BE:64:LYS:HD2	1.92	0.51
29:BF:154:VAL:O	29:BF:174:VAL:HG22	2.11	0.51
29:BF:168:ARG:HD3	29:BF:169:ASN:H	1.76	0.51
29:BF:39:TRP:NE1	29:BF:106:ARG:NH2	2.59	0.51
30:BG:104:GLU:HG3	30:BG:105:LYS:H	1.74	0.51
30:BG:57:ALA:H	30:BG:68:PRO:HB2	1.73	0.51
3:AC:57:G:H4'	30:BG:82:LEU:HD21	1.93	0.51
31:BH:54:ARG:HB3	31:BH:54:ARG:NH2	2.26	0.51
32:BK:9:LEU:CB	32:BK:13:GLY:HA3	2.41	0.51
33:BL:52:ILE:HG13	33:BL:80:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:99:LEU:O	34:BM:102:ALA:N	2.43	0.51
34:BM:23:LEU:HD11	34:BM:62:VAL:CA	2.39	0.51
35:BN:62:VAL:CB	35:BN:82:ASN:O	2.59	0.51
29:BF:31:HIS:ND1	36:BO:11:GLY:CA	2.72	0.51
36:BO:28:GLY:C	36:BO:29:LYS:CG	2.78	0.51
37:BP:6:ARG:HH21	37:BP:8:LYS:H	1.55	0.51
38:BQ:102:GLU:CD	38:BQ:103:ARG:HG2	2.31	0.51
38:BQ:23:ASN:O	38:BQ:26:LYS:HB2	2.11	0.51
38:BQ:82:GLU:O	38:BQ:83:ILE:HD13	2.11	0.51
39:BR:70:GLY:O	39:BR:72:ALA:N	2.43	0.51
42:BU:40:LEU:CG	42:BU:55:ALA:CA	2.89	0.51
44:BW:12:VAL:C	44:BW:14:SER:N	2.65	0.51
45:BX:75:ILE:N	45:BX:100:ALA:CB	2.74	0.51
46:BY:40:ASP:O	46:BY:44:PHE:HB2	2.10	0.51
32:BK:88:ILE:O	32:BK:121:LYS:HE3	2.11	0.51
26:BC:104:LEU:CD2	26:BC:127:LEU:HD23	2.41	0.51
24:BA:2124:G:C2'	26:BC:217:THR:HA	2.41	0.51
15:AP:58:GLU:O	15:AP:61:GLU:HB3	2.11	0.51
48:B1:10:LYS:HB2	48:B1:11:LEU:HD12	1.92	0.51
48:B1:2:ARG:O	48:B1:6:GLU:OE2	2.29	0.51
24:BA:434:U:O2'	24:BA:435:C:O5'	2.23	0.51
24:BA:2152:G:N1	24:BA:2153:G:C6	2.79	0.51
2:A1:9:U:N3	2:A1:13:U:C4	2.80	0.50
1:AA:1039:C:O2'	1:AA:1040:U:H5'	2.11	0.50
1:AA:1109:C:H2'	1:AA:1110:A:C8	2.47	0.50
1:AA:1129:C:C4	1:AA:1139:G:C6	3.00	0.50
1:AA:1279:A:O2'	1:AA:1282:C:N4	2.44	0.50
1:AA:134:A:N6	1:AA:135:C:N4	2.59	0.50
1:AA:145:G:C6	1:AA:178:C:C4	2.99	0.50
1:AA:1475:G:O2'	1:AA:1476:G:H5'	2.10	0.50
1:AA:1487:G:C2	1:AA:1488:G:C8	2.98	0.50
1:AA:191(C):G:C2'	1:AA:191(D):U:O4'	2.59	0.50
1:AA:210:U:H4'	1:AA:216:G:O5'	2.10	0.50
1:AA:267:C:H2'	1:AA:268:C:C6	2.46	0.50
1:AA:266:G:H22	1:AA:270:A:N6	2.09	0.50
1:AA:294:U:C2	1:AA:295:C:C5	2.99	0.50
1:AA:439:A:H1'	1:AA:496:A:C2	2.46	0.50
1:AA:440:A:H62	1:AA:493:G:H21	1.58	0.50
1:AA:55:A:H2'	1:AA:56:U:C4'	2.41	0.50
1:AA:68:G:C5	1:AA:69:G:C8	2.99	0.50
1:AA:701:C:H4'	1:AA:702:A:OP2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:702:A:N1	24:BA:1848:A:C6	2.78	0.50
1:AA:834:C:C4	1:AA:853:G:N1	2.79	0.50
1:AA:939:G:H2'	1:AA:940:C:C5	2.44	0.50
1:AA:9:G:C8	7:AH:126:ARG:NH2	2.79	0.50
4:AE:57:PHE:C	4:AE:57:PHE:HD2	2.15	0.50
5:AF:11:ARG:HH11	5:AF:15:THR:CG2	2.23	0.50
6:AG:64:LEU:HD13	6:AG:64:LEU:C	2.31	0.50
7:AH:78:HIS:HE2	7:AH:142:LEU:HB3	1.75	0.50
7:AH:147:ASP:O	7:AH:150:ARG:N	2.44	0.50
7:AH:45:PHE:CG	7:AH:45:PHE:O	2.64	0.50
10:AK:14:ARG:HD2	10:AK:15:ASN:HD22	1.76	0.50
10:AK:19:VAL:HB	10:AK:21:LYS:CD	2.41	0.50
11:AL:16:ARG:O	11:AL:63:ILE:HG23	2.10	0.50
14:AO:52:LEU:O	14:AO:52:LEU:HG	2.11	0.50
14:AO:84:LEU:CD2	14:AO:85:ILE:N	2.74	0.50
15:AP:11:ARG:NH1	15:AP:11:ARG:CG	2.71	0.50
15:AP:88:ARG:HE	15:AP:98:VAL:HG11	1.76	0.50
16:AQ:51:GLY:C	16:AQ:53:LEU:N	2.62	0.50
22:AW:13:LEU:CB	22:AW:17:ARG:HH21	2.13	0.50
49:B2:41:PRO:HA	49:B2:44:ARG:HE	1.76	0.50
51:B4:11:THR:O	51:B4:14:ALA:HB3	2.11	0.50
38:BQ:33:ARG:NH2	51:B4:56:LYS:HB2	2.25	0.50
53:B6:5:TRP:CE3	53:B6:5:TRP:CA	2.94	0.50
54:B7:1:MET:N	54:B7:2:PRO:CD	2.73	0.50
54:B7:30:ARG:C	54:B7:34:TRP:HE1	2.14	0.50
54:B7:22:VAL:HB	54:B7:48:PHE:CE2	2.45	0.50
24:BA:1069:A:C8	24:BA:1073:A:N7	2.79	0.50
24:BA:1085:A:O2'	24:BA:1086:A:C4'	2.59	0.50
24:BA:1135:C:C2	24:BA:1136:G:C8	2.99	0.50
24:BA:1305:C:H2'	24:BA:1306:C:C6	2.46	0.50
24:BA:137(A):G:C2	24:BA:138:G:O6	2.64	0.50
24:BA:1477:A:OP2	24:BA:1477:A:C8	2.64	0.50
24:BA:1619:G:N2	24:BA:1620:G:C4	2.79	0.50
24:BA:1789:A:H3'	24:BA:1790:C:C4'	2.41	0.50
24:BA:2000:G:H2'	24:BA:2001:A:H8	1.76	0.50
24:BA:2049:G:O2'	24:BA:2050:C:O5'	2.29	0.50
24:BA:2199:A:C4	24:BA:2225:A:N1	2.80	0.50
24:BA:2265:U:O2	24:BA:2265:U:H2'	2.10	0.50
24:BA:2308:G:N3	24:BA:2308:G:C2'	2.73	0.50
24:BA:2407:G:H3'	24:BA:2408:U:H5	1.75	0.50
24:BA:2415:G:C6	24:BA:2416:C:C4	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2462:U:C4	24:BA:2463:C:C4	2.98	0.50
24:BA:246:C:O2	24:BA:246:C:H2'	2.11	0.50
24:BA:2512:C:H2'	24:BA:2513:G:C4'	2.41	0.50
24:BA:2594:C:C2'	24:BA:2595:G:H5'	2.40	0.50
24:BA:2675:A:H2'	24:BA:2676:C:O4'	2.10	0.50
24:BA:2681:C:C4	24:BA:2725:A:N6	2.75	0.50
24:BA:270(A):A:OP2	24:BA:270(B):A:C2	2.64	0.50
24:BA:270(L):U:O2'	24:BA:270(M):U:P	2.69	0.50
24:BA:2711:A:P	24:BA:2712(A):A:P	3.09	0.50
24:BA:2825:C:N3	24:BA:2826:A:N7	2.60	0.50
24:BA:2830:G:H2'	24:BA:2830:G:N3	2.26	0.50
24:BA:2832:U:C1'	24:BA:2834:G:N2	2.58	0.50
24:BA:287:C:C3'	24:BA:288:C:H5	2.23	0.50
24:BA:279:C:N3	24:BA:360:G:O6	2.44	0.50
24:BA:375:C:H2'	24:BA:375:C:O2	2.10	0.50
24:BA:37:C:H2'	24:BA:38:A:H8	1.76	0.50
24:BA:422:A:N1	24:BA:423:A:C2	2.80	0.50
24:BA:451:C:H5	24:BA:453:C:C5'	2.19	0.50
24:BA:493:G:C2	24:BA:494:G:C8	3.00	0.50
24:BA:510:C:C2	24:BA:511:U:C6	2.99	0.50
24:BA:531:C:C4'	24:BA:2035:G:H21	2.24	0.50
24:BA:568:U:H3'	24:BA:570:G:OP2	2.10	0.50
24:BA:760:G:H2'	24:BA:761:A:C5'	2.41	0.50
24:BA:772:C:H2'	24:BA:773:U:C6	2.45	0.50
24:BA:814:C:H4'	24:BA:1224:G:H22	1.76	0.50
24:BA:82:G:H21	24:BA:83:G:N2	2.09	0.50
24:BA:66:C:C4	24:BA:89:G:N1	2.80	0.50
24:BA:975:G:N1	24:BA:976:C:C5	2.79	0.50
24:BA:978:G:C2	24:BA:979:G:C2	3.00	0.50
24:BA:981:A:H1'	24:BA:2037:G:O4'	2.11	0.50
25:BB:66:A:H2	25:BB:108:C:N1	2.09	0.50
25:BB:38:C:O5'	25:BB:38:C:H6	1.94	0.50
25:BB:82:G:HO2'	25:BB:83:G:P	2.34	0.50
27:BD:150:LYS:C	27:BD:152:GLY:N	2.65	0.50
27:BD:146:GLU:HA	27:BD:154:LYS:CG	2.41	0.50
27:BD:176:ARG:CG	27:BD:176:ARG:NH1	2.67	0.50
24:BA:2239:G:H1'	27:BD:249:PRO:HB3	1.92	0.50
27:BD:27:THR:CG2	27:BD:82:ILE:CG2	2.89	0.50
28:BE:32:PRO:HB3	28:BE:35:GLN:HE22	1.76	0.50
28:BE:58:ARG:HG2	28:BE:63:LEU:HD21	1.92	0.50
28:BE:52:LEU:CB	28:BE:73:GLU:O	2.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:125:LEU:HD13	29:BF:128:ALA:CB	2.41	0.50
29:BF:110:LEU:HG	29:BF:183:VAL:H	1.77	0.50
29:BF:194:MET:HE1	29:BF:197:ASP:HA	1.92	0.50
29:BF:160:ASN:HB2	29:BF:195:ASP:OD2	2.11	0.50
29:BF:36:VAL:HG11	29:BF:183:VAL:CG2	2.41	0.50
29:BF:34:TRP:O	29:BF:37:VAL:CB	2.59	0.50
30:BG:110:ALA:HB1	30:BG:139:LEU:HD21	1.92	0.50
30:BG:43:LEU:CD1	30:BG:88:ILE:HG22	2.41	0.50
31:BH:103:LEU:HB2	31:BH:115:VAL:CG1	2.41	0.50
34:BM:18:ALA:HB2	34:BM:54:VAL:HG21	1.93	0.50
34:BM:55:VAL:O	34:BM:57:ALA:N	2.43	0.50
24:BA:1131:G:C2	34:BM:74:ARG:HD2	2.46	0.50
35:BN:15:GLY:O	35:BN:47:ILE:HA	2.10	0.50
35:BN:13:ASN:N	35:BN:94:ARG:HB3	2.25	0.50
36:BO:72:PRO:HA	36:BO:110:TYR:CE1	2.45	0.50
36:BO:96:THR:HG21	36:BO:112:LEU:CD1	2.34	0.50
37:BP:112:GLU:HA	37:BP:115:MET:CB	2.40	0.50
37:BP:49:ALA:O	37:BP:50:ALA:C	2.48	0.50
24:BA:2009:G:C1'	38:BQ:107:ASP:O	2.59	0.50
24:BA:1249:U:HO2'	41:BT:6:THR:HG21	1.76	0.50
44:BW:73:ARG:NH2	44:BW:74:PRO:C	2.65	0.50
45:BX:12:THR:HG22	45:BX:13:VAL:CG1	2.41	0.50
46:BY:47:VAL:O	46:BY:48:PHE:C	2.50	0.50
3:AD:57:G:P	3:AD:57:G:H8	2.34	0.50
24:BA:1508:A:C5'	24:BA:1510:A:C5	2.90	0.50
18:AS:67:THR:N	18:AS:70:ALA:HB3	2.26	0.50
24:BA:487:C:N4	24:BA:488:G:C6	2.79	0.50
1:AA:1382:C:C6	1:AA:1383:C:H5	2.29	0.50
1:AA:1028(B):C:O2	1:AA:1028(B):C:C2'	2.58	0.50
24:BA:2153:G:O5'	24:BA:2153:G:H8	1.94	0.50
1:AA:1105:A:O2'	1:AA:1106:G:H5'	2.11	0.50
1:AA:1324:A:C6	1:AA:1325:C:C5	3.00	0.50
1:AA:1495:U:O2'	1:AA:1496:C:O5'	2.29	0.50
1:AA:559:A:O2'	1:AA:560:U:OP2	2.23	0.50
1:AA:836:G:C2	1:AA:837:G:C8	2.99	0.50
1:AA:850:U:H2'	1:AA:851:G:H8	1.76	0.50
1:AA:836:G:C6	1:AA:851:G:C6	2.99	0.50
1:AA:862:C:C4	1:AA:863:U:C5	2.99	0.50
1:AA:915:A:C8	1:AA:915:A:O5'	2.62	0.50
1:AA:927:G:N1	1:AA:1391:U:C2	2.79	0.50
1:AA:936:C:H2'	1:AA:937:A:C5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:939:G:N2	1:AA:940:C:N3	2.59	0.50
3:AC:14:A:C4	3:AC:15:G:C8	2.99	0.50
4:AE:124:SER:C	4:AE:126:GLU:H	2.15	0.50
4:AE:150:SER:C	4:AE:153:ARG:HB2	2.32	0.50
4:AE:167:PRO:CG	4:AE:168:THR:H	2.21	0.50
4:AE:16:HIS:NE2	4:AE:210:SER:HA	2.25	0.50
4:AE:44:LEU:H	4:AE:44:LEU:CD2	2.22	0.50
4:AE:58:ILE:HG23	4:AE:61:LEU:HD13	1.93	0.50
4:AE:80:ILE:CD1	4:AE:208:ILE:CG2	2.87	0.50
4:AE:72:GLY:CA	4:AE:81:VAL:HG21	2.41	0.50
4:AE:82:ARG:CB	4:AE:94:ASN:ND2	2.70	0.50
1:AA:1112:C:O2	5:AF:179:ARG:CZ	2.59	0.50
5:AF:182:ILE:HG23	5:AF:202:ILE:C	2.32	0.50
6:AG:148:VAL:HG11	6:AG:153:ARG:HA	1.92	0.50
6:AG:155:LEU:HD22	6:AG:155:LEU:H	1.77	0.50
6:AG:62:GLN:O	6:AG:66:ARG:HD2	2.10	0.50
6:AG:67:ILE:CD1	6:AG:67:ILE:C	2.79	0.50
7:AH:37:ARG:NH1	7:AH:111:GLU:C	2.65	0.50
7:AH:84:PHE:HB3	7:AH:87:SER:O	2.10	0.50
10:AK:119:LEU:HB3	10:AK:123:GLU:CD	2.31	0.50
10:AK:14:ARG:CA	10:AK:14:ARG:HH11	2.24	0.50
10:AK:70:GLN:C	10:AK:70:GLN:HE21	2.14	0.50
10:AK:84:ARG:O	10:AK:135:CYS:SG	2.69	0.50
11:AL:100:GLY:C	11:AL:101:PHE:CD1	2.84	0.50
11:AL:113:LYS:O	11:AL:115:GLY:N	2.38	0.50
13:AN:121:PRO:HB2	13:AN:125:PHE:HD1	1.75	0.50
1:AA:34:C:O4'	14:AO:32:PHE:CE2	2.64	0.50
14:AO:90:VAL:HB	14:AO:96:VAL:CG1	2.42	0.50
15:AP:125:ARG:O	15:AP:125:ARG:HG3	2.11	0.50
15:AP:29:ARG:HD3	15:AP:64:TRP:CE2	2.46	0.50
15:AP:73:GLU:C	15:AP:75:ALA:N	2.62	0.50
15:AP:90:LEU:CD2	15:AP:93:ARG:HH11	2.24	0.50
15:AP:96:LEU:O	15:AP:98:VAL:N	2.45	0.50
17:AR:15:PHE:O	17:AR:16:ALA:C	2.49	0.50
20:AU:26:LEU:HD23	20:AU:29:PHE:HB2	1.93	0.50
8:AI:60:PHE:HE2	20:AU:78:LEU:HD11	1.76	0.50
22:AW:21:LYS:HA	22:AW:24:LEU:CD1	2.36	0.50
48:B1:27:LEU:O	48:B1:30:LEU:HG	2.11	0.50
51:B4:11:THR:OG1	51:B4:11:THR:O	2.27	0.50
51:B4:35:GLU:HG2	51:B4:49:CYS:HB3	1.94	0.50
52:B5:20:ASN:CG	52:B5:42:TRP:CD1	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:126:A:H5''	53:B6:18:PHE:HD1	1.76	0.50
55:B8:25:VAL:HG21	55:B8:34:GLN:CD	2.32	0.50
24:BA:1045:A:O4'	24:BA:1045:A:OP2	2.30	0.50
24:BA:1142:U:O2'	24:BA:1142(A):A:H5'	2.11	0.50
24:BA:119:A:HO2'	24:BA:120:U:P	2.34	0.50
24:BA:1257:C:N4	24:BA:1258:C:N4	2.59	0.50
24:BA:1530:G:C5	24:BA:1531:C:N4	2.79	0.50
24:BA:1655:A:C2'	24:BA:1656:C:H6	2.22	0.50
24:BA:1685:C:H2'	24:BA:1686:C:O5'	2.11	0.50
24:BA:1773:A:N7	24:BA:1774:C:N3	2.58	0.50
24:BA:1797:C:O2'	27:BD:257:LEU:HD12	2.11	0.50
24:BA:1819:A:OP2	27:BD:157:ARG:HA	2.11	0.50
24:BA:1856:G:C2'	24:BA:1857:G:H5'	2.33	0.50
24:BA:188:G:H2'	24:BA:189:G:O4'	2.11	0.50
24:BA:1936:A:N3	24:BA:1940:U:O2	2.44	0.50
24:BA:1945:G:H5'	24:BA:1945:G:C8	2.46	0.50
24:BA:1944:U:C1'	24:BA:1955:U:C1'	2.86	0.50
24:BA:2046:G:N3	24:BA:2047:U:C5	2.79	0.50
24:BA:2048:G:H2'	24:BA:2049:G:O5'	2.12	0.50
24:BA:2373:G:C4	24:BA:2374:C:C5	2.99	0.50
24:BA:2431:U:O2'	24:BA:2432:A:C8	2.65	0.50
24:BA:244:A:O2'	36:BO:66:GLY:CA	2.58	0.50
24:BA:245:G:C4	24:BA:246:C:C5	2.95	0.50
24:BA:2557:G:H2'	24:BA:2558:C:C5	2.46	0.50
24:BA:2654:A:H62	24:BA:2667:C:N4	2.09	0.50
24:BA:2740:A:H61	24:BA:2764:A:H1'	1.74	0.50
24:BA:2816:C:HO2'	24:BA:2817:G:H5'	1.77	0.50
24:BA:2844:G:N2	24:BA:2845:G:C1'	2.74	0.50
24:BA:2862:G:C4	24:BA:2863:C:C5	2.99	0.50
24:BA:2837:G:N2	24:BA:2882:A:C4	2.79	0.50
24:BA:2893:G:H4'	24:BA:2894:G:C1'	2.42	0.50
24:BA:299:A:O2'	24:BA:319:C:C4'	2.60	0.50
24:BA:354:G:H8	24:BA:354:G:OP2	1.93	0.50
24:BA:548:A:C5	24:BA:549:G:H1'	2.46	0.50
24:BA:641:C:H41	24:BA:646:A:H61	1.59	0.50
24:BA:655:A:O3'	24:BA:656:G:O4'	2.28	0.50
24:BA:771:G:C4	24:BA:772:C:C5	2.98	0.50
24:BA:800:A:HO2'	24:BA:801:G:P	2.32	0.50
24:BA:848:G:H3'	24:BA:848:G:C8	2.46	0.50
24:BA:873:G:H2'	24:BA:874:G:O4'	2.10	0.50
24:BA:874:G:C2'	24:BA:874:G:N3	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:905:U:C4	24:BA:906:G:C8	2.99	0.50
24:BA:989:G:O2'	24:BA:990:A:P	2.70	0.50
24:BA:915:C:H1'	25:BB:100:G:H4'	1.93	0.50
25:BB:103:U:C5'	25:BB:103:U:H6	2.24	0.50
25:BB:58:A:C5	25:BB:59:A:N7	2.79	0.50
25:BB:68:C:H3'	25:BB:69:G:C8	2.37	0.50
25:BB:73:A:C2	46:BY:29:TYR:HE1	2.30	0.50
27:BD:106:ILE:O	27:BD:107:ALA:CB	2.58	0.50
27:BD:146:GLU:HG3	27:BD:152:GLY:O	2.11	0.50
27:BD:210:GLY:O	27:BD:214:TRP:HB2	2.12	0.50
27:BD:268:ARG:C	27:BD:269:PHE:CD1	2.85	0.50
27:BD:183:ARG:HG2	27:BD:268:ARG:HD2	1.92	0.50
28:BE:148:GLY:O	28:BE:149:ARG:HG3	2.10	0.50
28:BE:154:LYS:HZ1	28:BE:156:MET:HB2	1.74	0.50
28:BE:5:LEU:HD23	28:BE:6:GLY:C	2.32	0.50
28:BE:47:VAL:CG1	28:BE:79:ARG:HB2	2.41	0.50
28:BE:92:THR:HG23	28:BE:96:PHE:H	1.76	0.50
29:BF:182:ASN:O	29:BF:186:ILE:HG13	2.11	0.50
29:BF:185:ASP:HA	29:BF:188:ARG:CG	2.41	0.50
30:BG:39:ILE:CA	30:BG:157:ILE:HG13	2.41	0.50
31:BH:124:GLU:C	31:BH:126:PRO:HD2	2.31	0.50
33:BL:104:VAL:CG1	33:BL:124:ALA:HA	2.41	0.50
34:BM:109:LYS:HZ1	34:BM:110:GLY:N	2.08	0.50
34:BM:82:LEU:O	34:BM:83:LYS:C	2.50	0.50
35:BN:76:ALA:CB	35:BN:78:ARG:HH22	2.24	0.50
36:BO:112:LEU:O	36:BO:128:HIS:HE1	1.94	0.50
36:BO:114:ILE:HG12	36:BO:130:PHE:CG	2.46	0.50
36:BO:84:ASN:O	36:BO:85:LEU:CG	2.60	0.50
36:BO:88:LEU:HD21	36:BO:124:LYS:NZ	2.26	0.50
37:BP:122:GLY:O	37:BP:124:LYS:C	2.50	0.50
37:BP:134:ARG:NE	37:BP:137:TYR:H	2.06	0.50
37:BP:11:LYS:HD3	37:BP:16:ARG:HH21	1.76	0.50
38:BQ:107:ASP:OD2	38:BQ:108:GLY:N	2.44	0.50
39:BR:106:ARG:C	39:BR:106:ARG:HH11	2.14	0.50
41:BT:17:ILE:HG23	41:BT:20:LEU:HD12	1.92	0.50
41:BT:48:ALA:O	41:BT:52:ARG:NE	2.44	0.50
41:BT:75:ASN:O	41:BT:79:PHE:HB3	2.11	0.50
42:BU:72:VAL:HG12	42:BU:73:SER:N	2.26	0.50
42:BU:79:VAL:HG12	42:BU:81:TYR:CD1	2.46	0.50
24:BA:566:U:O4'	42:BU:82:ARG:NH2	2.44	0.50
43:BV:7:ALA:H	43:BV:103:ILE:HD13	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:78:GLU:CG	43:BV:99:ARG:HB3	2.42	0.50
24:BA:1334:G:P	44:BW:65:ARG:HH12	2.34	0.50
44:BW:61:GLY:N	44:BW:73:ARG:HH12	2.10	0.50
44:BW:88:LYS:O	44:BW:89:ILE:HB	2.12	0.50
44:BW:9:LEU:N	44:BW:9:LEU:CD1	2.66	0.50
46:BY:12:GLY:O	46:BY:15:PRO:HG2	2.10	0.50
46:BY:114:GLY:H	46:BY:145:GLU:CD	2.14	0.50
46:BY:152:ALA:HA	46:BY:155:LEU:HD22	1.93	0.50
47:BZ:56:ASP:C	47:BZ:57:PHE:CD1	2.85	0.50
32:BK:57:ARG:HG3	32:BK:57:ARG:HH11	1.77	0.50
32:BK:79:ILE:O	32:BK:144:VAL:CG2	2.59	0.50
26:BC:163:PHE:HZ	26:BC:195:ALA:HB3	1.75	0.50
26:BC:22:ILE:HG12	26:BC:224:ILE:HD12	1.94	0.50
1:AA:160:A:O2'	1:AA:161:A:H5'	2.11	0.50
3:AB:4:C:C2	3:AB:5:G:N7	2.79	0.50
1:AA:1128:C:H4'	1:AA:1148:U:C5	2.46	0.50
1:AA:116:A:C8	1:AA:116:A:O5'	2.65	0.50
1:AA:1189:C:O2'	1:AA:1190:G:H5'	2.11	0.50
1:AA:1202:G:H21	1:AA:1203:C:H1'	1.70	0.50
1:AA:1259:C:O2'	1:AA:1283:G:N2	2.43	0.50
1:AA:1277:C:C2'	1:AA:1279:A:H8	2.24	0.50
1:AA:1303:C:N4	1:AA:1304:G:C2	2.79	0.50
1:AA:1324:A:C6	1:AA:1325:C:C4	3.00	0.50
1:AA:136:C:H2'	1:AA:137:C:C6	2.46	0.50
1:AA:22:G:C4	1:AA:23:C:C6	2.98	0.50
1:AA:126:G:C6	1:AA:236:G:O6	2.65	0.50
1:AA:308:C:O2	1:AA:309:G:C8	2.64	0.50
1:AA:356:A:H2'	1:AA:357:G:O4'	2.11	0.50
1:AA:49:U:C4	1:AA:364:A:N7	2.79	0.50
1:AA:409:G:H2'	1:AA:410:G:O5'	2.12	0.50
1:AA:558:G:C4'	1:AA:559:A:H5''	2.42	0.50
1:AA:622:A:H2'	1:AA:623:C:H5'	1.93	0.50
1:AA:611:A:N6	1:AA:629:G:C6	2.74	0.50
1:AA:606:G:N2	1:AA:631:G:N3	2.59	0.50
1:AA:957:U:H1'	1:AA:960:U:H5	1.76	0.50
1:AA:978:A:H61	1:AA:1361:G:N2	2.05	0.50
4:AE:142:LEU:HD23	4:AE:142:LEU:C	2.31	0.50
4:AE:149:LEU:O	4:AE:150:SER:C	2.50	0.50
4:AE:208:ILE:HD13	4:AE:239:VAL:HG11	1.94	0.50
4:AE:85:ALA:O	4:AE:86:GLU:C	2.50	0.50
4:AE:9:GLU:OE1	4:AE:12:GLU:HG2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:172:ARG:NH1	5:AF:174:PRO:HD3	2.25	0.50
5:AF:28:GLN:CD	5:AF:29:TYR:N	2.64	0.50
6:AG:104:VAL:HG11	6:AG:140:VAL:CG2	2.26	0.50
1:AA:404:U:P	6:AG:118:ARG:NH1	2.84	0.50
1:AA:404:U:H5'	6:AG:122:ARG:HD3	1.94	0.50
6:AG:19:LEU:O	6:AG:20:TYR:C	2.48	0.50
6:AG:61:LYS:HA	6:AG:203:VAL:HG22	1.93	0.50
7:AH:127:ASN:OD1	7:AH:127:ASN:O	2.29	0.50
10:AK:121:ASP:O	10:AK:122:ARG:C	2.49	0.50
10:AK:89:PRO:CB	10:AK:92:ARG:HH21	2.23	0.50
1:AA:1342:C:O2'	11:AL:124:GLN:HA	2.11	0.50
12:AM:22:LYS:NZ	12:AM:90:LEU:CD1	2.73	0.50
12:AM:48:THR:CA	12:AM:62:HIS:HB3	2.40	0.50
14:AO:8:ASN:O	14:AO:9:GLN:C	2.50	0.50
17:AR:46:HIS:O	17:AR:47:LYS:HB2	2.11	0.50
18:AS:21:VAL:N	18:AS:36:ILE:HD11	2.26	0.50
19:AT:10:VAL:CB	19:AT:54:GLY:H	2.24	0.50
19:AT:29:HIS:CD2	19:AT:30:PRO:HD2	2.47	0.50
19:AT:51:TYR:CE1	19:AT:73:VAL:HG11	2.46	0.50
19:AT:10:VAL:HB	19:AT:55:ASP:N	2.26	0.50
19:AT:75:ARG:CG	19:AT:76:LEU:N	2.74	0.50
20:AU:63:GLN:HA	20:AU:66:LEU:HD21	1.94	0.50
20:AU:81:PHE:O	20:AU:82:THR:CB	2.59	0.50
48:B1:26:GLU:O	48:B1:29:GLU:CB	2.60	0.50
50:B3:38:LYS:HG2	50:B3:40:HIS:ND1	2.26	0.50
24:BA:2230:G:O2'	50:B3:40:HIS:O	2.13	0.50
24:BA:1009:A:O4'	41:BT:59:ARG:CZ	2.59	0.50
24:BA:1011:G:OP2	41:BT:75:ASN:CG	2.50	0.50
24:BA:1013:C:OP2	24:BA:1142:U:O2	2.30	0.50
24:BA:1019:U:OP1	24:BA:1120:G:N2	2.42	0.50
24:BA:1155:A:O2'	24:BA:1156:A:C5'	2.60	0.50
24:BA:120:U:C2	24:BA:149:A:C2	2.99	0.50
24:BA:1308:A:H61	24:BA:1606:G:H1'	1.76	0.50
24:BA:1364:G:C2	24:BA:1368:G:C5	2.99	0.50
24:BA:1410:G:H2'	24:BA:1411:C:C6	2.46	0.50
24:BA:143:C:C2	24:BA:144:C:H5	2.27	0.50
24:BA:1532:C:N4	24:BA:1540:G:C2	2.80	0.50
24:BA:1324:G:C1'	24:BA:1616:A:H62	2.24	0.50
24:BA:1655:A:H5''	28:BE:113:PHE:C	2.32	0.50
24:BA:1672:C:N4	24:BA:1673:U:C5	2.79	0.50
24:BA:1675:C:H2'	24:BA:1676:A:H5'	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1750:G:O2'	24:BA:1751:C:C5'	2.59	0.50
24:BA:179:G:H5'	53:B6:32:LYS:HZ1	1.71	0.50
24:BA:1807:G:C2	24:BA:1809:A:OP2	2.64	0.50
24:BA:1890:A:N3	24:BA:1891:G:H1'	2.26	0.50
24:BA:1912:A:H8	24:BA:1913:A:C1'	2.25	0.50
24:BA:1906:G:C4	24:BA:1929:G:N7	2.79	0.50
24:BA:2072:G:N3	24:BA:2073:C:C5	2.79	0.50
24:BA:2260:C:O2'	24:BA:2261:C:H5'	2.11	0.50
24:BA:2261:C:OP1	47:BZ:17:GLN:CB	2.59	0.50
24:BA:230:U:H2'	24:BA:231:C:O4'	2.11	0.50
24:BA:2328:A:H2'	24:BA:2329:G:C8	2.45	0.50
24:BA:234:C:H2'	24:BA:235:U:O5'	2.10	0.50
24:BA:2327:A:C5	24:BA:2388:A:N1	2.79	0.50
24:BA:2409:G:C2	24:BA:2410:G:H1'	2.46	0.50
24:BA:243:U:C4	24:BA:244:A:C8	3.00	0.50
24:BA:2491:U:H5	24:BA:2492:U:OP2	1.94	0.50
24:BA:2512:C:H2'	24:BA:2513:G:C5'	2.41	0.50
24:BA:2519:U:C6	24:BA:2542:A:N6	2.79	0.50
24:BA:2637:U:OP1	28:BE:81:ILE:HD11	2.10	0.50
24:BA:270(X):G:O6	24:BA:270(Y):G:N3	2.43	0.50
24:BA:2749:A:C8	24:BA:2749:A:OP2	2.62	0.50
24:BA:2748:A:N1	24:BA:2757:A:N6	2.59	0.50
24:BA:527:C:H5	24:BA:2780:G:OP1	1.94	0.50
24:BA:2807:G:N3	24:BA:2808:U:C5	2.79	0.50
24:BA:2830:G:H5'	28:BE:57:LYS:CE	2.42	0.50
24:BA:2872:G:C2	24:BA:2873:A:C6	3.00	0.50
24:BA:295:G:O4'	24:BA:345:A:H2	1.93	0.50
24:BA:484:C:H2'	24:BA:485:C:C5	2.44	0.50
24:BA:558:G:N3	24:BA:559:G:N7	2.59	0.50
24:BA:575:A:C2'	24:BA:576:U:H5'	2.42	0.50
24:BA:637:A:H4'	24:BA:638:G:C4'	2.41	0.50
24:BA:714:U:O2'	24:BA:715:G:N7	2.40	0.50
24:BA:751:A:H4'	43:BV:90:ARG:NE	2.26	0.50
24:BA:753:C:H2'	24:BA:754:C:C6	2.46	0.50
24:BA:815:C:C4	24:BA:1193:G:N1	2.78	0.50
24:BA:821:A:OP1	24:BA:822:U:C6	2.65	0.50
24:BA:906:G:N3	24:BA:906:G:C2'	2.73	0.50
24:BA:980:A:C5	24:BA:981:A:C2	3.00	0.50
25:BB:110:G:C2'	25:BB:111:U:O5'	2.58	0.50
25:BB:49:C:OP1	39:BR:96:GLY:HA3	2.10	0.50
25:BB:58:A:N6	25:BB:59:A:C6	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:111:LEU:HB3	27:BD:115:GLN:CD	2.32	0.50
27:BD:182:LEU:O	27:BD:268:ARG:HA	2.11	0.50
27:BD:79:VAL:HG12	27:BD:81:ALA:HA	1.94	0.50
28:BE:132:HIS:O	28:BE:133:LYS:CB	2.59	0.50
28:BE:144:ARG:O	28:BE:146:THR:N	2.45	0.50
24:BA:2052:G:C4	28:BE:150:VAL:HB	2.45	0.50
30:BG:107:LEU:HD12	30:BG:111:LEU:CD1	2.39	0.50
30:BG:17:PRO:HA	30:BG:20:ILE:CB	2.39	0.50
31:BH:85:LYS:HZ3	31:BH:142:GLY:HA2	1.73	0.50
33:BL:12:LEU:CD1	33:BL:23:VAL:CG2	2.89	0.50
33:BL:79:ARG:HA	33:BL:82:ALA:HB3	1.93	0.50
34:BM:12:ARG:O	34:BM:12:ARG:CD	2.55	0.50
34:BM:135:PRO:O	34:BM:136:GLU:O	2.29	0.50
35:BN:106:LEU:O	35:BN:109:LYS:N	2.44	0.50
36:BO:114:ILE:N	36:BO:129:ALA:O	2.45	0.50
36:BO:130:PHE:HB3	36:BO:134:ALA:HB1	1.93	0.50
24:BA:833:U:H4'	36:BO:49:ARG:HE	1.77	0.50
37:BP:16:ARG:O	37:BP:17:LEU:CG	2.60	0.50
38:BQ:22:ARG:O	38:BQ:23:ASN:C	2.48	0.50
38:BQ:75:LEU:O	38:BQ:78:LYS:HB3	2.11	0.50
39:BR:74:ALA:CB	39:BR:108:GLY:HA3	2.35	0.50
40:BS:18:ASP:O	40:BS:19:LEU:CB	2.58	0.50
40:BS:5:ALA:O	40:BS:8:LYS:HB2	2.11	0.50
40:BS:92:GLY:C	40:BS:93:ARG:NE	2.63	0.50
42:BU:56:SER:O	42:BU:56:SER:OG	2.23	0.50
42:BU:35:LEU:C	42:BU:61:VAL:HG13	2.30	0.50
43:BV:29:LEU:HD23	43:BV:29:LEU:C	2.31	0.50
43:BV:50:VAL:HG21	43:BV:103:ILE:HG13	1.94	0.50
45:BX:75:ILE:CG2	45:BX:100:ALA:HB2	2.29	0.50
45:BX:15:VAL:HG12	45:BX:16:ALA:H	1.77	0.50
45:BX:32:PRO:C	45:BX:34:LYS:N	2.65	0.50
45:BX:40:GLU:N	45:BX:62:GLU:OE2	2.44	0.50
45:BX:70:SER:O	45:BX:71:LYS:O	2.30	0.50
26:BC:93:TYR:CE1	26:BC:109:ASP:CB	2.94	0.50
26:BC:134:ARG:HB2	26:BC:136:LEU:HG	1.93	0.50
26:BC:26:ALA:CB	26:BC:182:PRO:HA	2.39	0.50
26:BC:213:TYR:CZ	26:BC:223:ARG:NH2	2.79	0.50
26:BC:8:ARG:O	26:BC:12:GLU:HG2	2.12	0.50
24:BA:2102:U:C4	24:BA:2103:C:N4	2.80	0.50
24:BA:273(F):C:O2	24:BA:363(A):A:C6	2.65	0.50
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1101:A:C4'	1:AA:1102:A:O5'	2.52	0.50
1:AA:1362(A):C:H5'	1:AA:1363:A:O5'	2.11	0.50
1:AA:1401:G:H2'	1:AA:1402:C:C4'	2.41	0.50
1:AA:1463:C:O2'	1:AA:1464:G:H5'	2.12	0.50
1:AA:1517:G:N2	1:AA:1518:A:C1'	2.73	0.50
1:AA:245:C:N3	1:AA:284:G:N1	2.59	0.50
1:AA:577:G:N2	1:AA:578:C:C2	2.79	0.50
1:AA:579:G:C6	1:AA:580:U:C5	3.00	0.50
1:AA:595:G:N7	1:AA:641:U:N3	2.59	0.50
1:AA:712:A:H2'	1:AA:713:G:C8	2.47	0.50
1:AA:739:C:H2'	1:AA:740:U:H5'	1.94	0.50
1:AA:750:G:H1'	17:AR:23:GLY:CA	2.42	0.50
1:AA:778:G:C5	1:AA:779:C:C5	2.99	0.50
1:AA:792:A:C4	1:AA:794:A:N6	2.79	0.50
1:AA:829:G:O2'	1:AA:830:G:H5'	2.12	0.50
1:AA:663:A:C5'	1:AA:836:G:OP1	2.57	0.50
1:AA:848:C:N3	1:AA:849:C:C5	2.79	0.50
1:AA:872:A:C2	1:AA:874:G:O6	2.64	0.50
1:AA:899:C:N4	1:AA:900:A:C6	2.79	0.50
3:AC:21:A:N6	3:AC:46:G:N1	2.59	0.50
3:AC:73:A:HO2'	3:AC:74:C:P	2.34	0.50
3:AD:70:G:H2'	3:AD:71:G:C8	2.46	0.50
6:AG:105:VAL:HG13	6:AG:120:LEU:HD21	1.93	0.50
6:AG:123:HIS:CB	6:AG:125:HIS:HE1	2.24	0.50
6:AG:100:ARG:NH2	6:AG:136:PRO:O	2.44	0.50
6:AG:110:PHE:HZ	6:AG:147:ALA:CB	2.24	0.50
6:AG:170:VAL:CG1	6:AG:171:GLY:H	2.24	0.50
6:AG:66:ARG:O	6:AG:68:TYR:N	2.44	0.50
7:AH:7:GLU:HG2	7:AH:112:LEU:CD2	2.41	0.50
9:AJ:87:VAL:CG1	9:AJ:152:ALA:HA	2.31	0.50
9:AJ:49:ILE:HG21	9:AJ:121:ALA:CB	2.30	0.50
9:AJ:75:VAL:HG22	9:AJ:88:PRO:CB	2.41	0.50
10:AK:40:ALA:CB	10:AK:45:ILE:HG23	2.41	0.50
13:AN:69:ALA:O	13:AN:72:ALA:N	2.44	0.50
15:AP:48:LEU:CD1	15:AP:53:VAL:HA	2.41	0.50
16:AQ:10:ALA:C	16:AQ:12:ARG:N	2.64	0.50
17:AR:36:ILE:CG2	17:AR:37:ASN:N	2.73	0.50
18:AS:74:LEU:HD22	18:AS:79:VAL:CG2	2.42	0.50
18:AS:75:ARG:HG3	18:AS:80:PHE:CD1	2.46	0.50
19:AT:26:GLN:O	19:AT:27:PHE:HB3	2.12	0.50
21:AV:39:THR:HG22	21:AV:39:THR:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:51:VAL:O	21:AV:58:VAL:HG22	2.11	0.50
22:AW:42:GLN:O	22:AW:43:LEU:C	2.49	0.50
24:BA:396:G:OP1	50:B3:10:VAL:HG13	2.11	0.50
51:B4:31:VAL:HG23	51:B4:32:PRO:N	2.25	0.50
51:B4:34:PRO:HB3	51:B4:40:LYS:NZ	2.26	0.50
53:B6:32:LYS:CA	53:B6:35:ARG:HD3	2.41	0.50
54:B7:33:ASN:C	54:B7:34:TRP:CG	2.83	0.50
54:B7:6:THR:HG23	54:B7:9:GLY:CA	2.39	0.50
24:BA:1056:G:N2	24:BA:1104:C:N4	2.59	0.50
24:BA:1096:A:C5	24:BA:1097:U:H1'	2.46	0.50
24:BA:1142(A):A:O5'	24:BA:1142(A):A:C8	2.65	0.50
24:BA:1157:G:OP2	24:BA:1158:C:OP2	2.30	0.50
24:BA:1208:C:N4	24:BA:1209:G:C6	2.79	0.50
24:BA:1237:A:O2'	24:BA:1238:G:O5'	2.30	0.50
24:BA:809:G:O2'	24:BA:1254:A:N3	2.35	0.50
24:BA:1287:A:H3'	24:BA:1288:U:C6	2.46	0.50
24:BA:1381:G:C6	24:BA:1382:G:C5	3.00	0.50
24:BA:1472:A:O2'	24:BA:1473:G:C8	2.62	0.50
24:BA:155:C:O2	24:BA:171:G:N2	2.44	0.50
24:BA:1730:U:H6	24:BA:1730:U:O5'	1.93	0.50
24:BA:1789:A:OP1	27:BD:222:ARG:CG	2.51	0.50
24:BA:17:G:H4'	41:BT:25:TRP:CZ3	2.46	0.50
24:BA:1826:G:O5'	24:BA:1826:G:C8	2.64	0.50
24:BA:1833:U:C2	24:BA:1834:U:O2	2.65	0.50
24:BA:184:C:O2	24:BA:185:U:C5	2.65	0.50
24:BA:563:G:C5	24:BA:2018:G:N1	2.79	0.50
24:BA:2052:G:O2'	24:BA:2053:G:H5'	2.11	0.50
24:BA:2243:U:C2	24:BA:2244:U:C5	3.00	0.50
24:BA:2329:G:H1	24:BA:2386:C:H41	1.57	0.50
24:BA:2343:C:O2	24:BA:2344:U:C6	2.65	0.50
24:BA:2399:G:C2	24:BA:2400:G:C1'	2.89	0.50
24:BA:2548:G:C6	24:BA:2561:A:C6	3.00	0.50
24:BA:262:A:H2'	24:BA:263:C:H6	1.76	0.50
24:BA:374:A:N6	24:BA:401:A:H1'	2.27	0.50
24:BA:408:G:C4	24:BA:409:C:C6	3.00	0.50
24:BA:497:A:O5'	24:BA:497:A:H8	1.95	0.50
24:BA:504:U:H6	24:BA:504:U:OP2	1.94	0.50
24:BA:514:A:N3	24:BA:514:A:H2'	2.27	0.50
24:BA:530:G:N2	24:BA:2021:C:C6	2.80	0.50
24:BA:530:G:N2	24:BA:2021:C:H2'	2.27	0.50
24:BA:534:U:HO2'	41:BT:49:HIS:CE1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:605:C:OP1	29:BF:104:LYS:HD2	2.12	0.50
24:BA:611:C:N4	24:BA:618:G:H1	2.10	0.50
24:BA:630:G:OP1	54:B7:46:ARG:NH1	2.44	0.50
24:BA:66:C:C4	24:BA:67:U:C5	2.99	0.50
24:BA:678:C:C2	24:BA:679:C:C5	2.99	0.50
24:BA:72:U:H5	24:BA:112:U:C2'	2.23	0.50
24:BA:685:A:C4	24:BA:774:A:C6	2.99	0.50
24:BA:847:U:C4	24:BA:933:A:C2	3.00	0.50
24:BA:918:A:C8	25:BB:80:U:C4'	2.93	0.50
24:BA:943:U:H5''	24:BA:944:G:O6	2.12	0.50
25:BB:46:A:C2'	25:BB:47:C:C6	2.78	0.50
25:BB:73:A:HO2'	25:BB:74:U:C5'	2.24	0.50
25:BB:87:G:C2	25:BB:90:C:C4	3.00	0.50
27:BD:13:ARG:HH12	27:BD:19:ALA:HB1	1.75	0.50
27:BD:36:PRO:O	27:BD:37:LEU:HD22	2.11	0.50
27:BD:63:ARG:CD	27:BD:65:ILE:HD11	2.42	0.50
28:BE:7:VAL:HG13	28:BE:194:GLY:C	2.31	0.50
28:BE:102:VAL:HG23	28:BE:200:GLU:OE2	2.11	0.50
28:BE:4:ILE:HD12	28:BE:76:ARG:NH2	2.26	0.50
28:BE:91:VAL:HG11	28:BE:93:VAL:CG2	2.37	0.50
28:BE:91:VAL:HG13	28:BE:95:ILE:HD13	1.92	0.50
28:BE:92:THR:HG23	28:BE:95:ILE:HG22	1.93	0.50
29:BF:162:LEU:O	29:BF:165:ARG:HB3	2.11	0.50
29:BF:29:ASN:ND2	29:BF:29:ASN:C	2.62	0.50
30:BG:173:LEU:HA	30:BG:176:LEU:HB3	1.92	0.50
30:BG:57:ALA:CA	30:BG:68:PRO:N	2.68	0.50
31:BH:102:ALA:HB1	31:BH:115:VAL:H	1.76	0.50
31:BH:157:TYR:CD1	31:BH:157:TYR:C	2.85	0.50
33:BL:108:ALA:HB1	33:BL:123:ALA:HB1	1.90	0.50
33:BL:12:LEU:HD13	33:BL:23:VAL:CG2	2.40	0.50
34:BM:63:THR:OG1	34:BM:65:LYS:HD3	2.12	0.50
34:BM:66:LYS:N	34:BM:69:GLN:OE1	2.44	0.50
35:BN:22:ILE:HB	35:BN:40:VAL:CG1	2.40	0.50
35:BN:11:ALA:CB	35:BN:97:ARG:HH22	2.24	0.50
36:BO:9:ASN:O	36:BO:10:PRO:C	2.49	0.50
36:BO:10:PRO:O	36:BO:11:GLY:O	2.29	0.50
36:BO:130:PHE:HE1	36:BO:145:PRO:HB3	1.77	0.50
37:BP:51:ARG:HE	37:BP:55:VAL:HG21	1.77	0.50
37:BP:89:ASN:ND2	37:BP:89:ASN:N	2.56	0.50
38:BQ:20:LEU:HD22	38:BQ:24:GLN:HG3	1.89	0.50
24:BA:2820:A:N3	38:BQ:5:LYS:HG3	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:57:LYS:NZ	39:BR:62:LYS:CB	2.74	0.50
39:BR:26:LEU:N	39:BR:88:ASP:HB2	2.25	0.50
39:BR:92:TYR:O	39:BR:98:VAL:HG21	2.11	0.50
40:BS:19:LEU:O	40:BS:21:GLU:HG2	2.10	0.50
40:BS:67:SER:HA	40:BS:75:ILE:CG2	2.41	0.50
40:BS:80:SER:O	40:BS:81:PRO:C	2.47	0.50
41:BT:93:LYS:O	41:BT:94:ASN:ND2	2.44	0.50
42:BU:22:VAL:HG12	42:BU:23:GLU:N	2.26	0.50
41:BT:89:GLU:N	42:BU:52:VAL:HA	2.23	0.50
43:BV:16:LYS:CD	43:BV:16:LYS:N	2.62	0.50
43:BV:38:TYR:HD1	43:BV:38:TYR:N	2.08	0.50
45:BX:45:VAL:HA	45:BX:57:GLN:CG	2.41	0.50
46:BY:99:TYR:CZ	46:BY:124:ILE:HB	2.46	0.50
24:BA:2158:A:O2'	24:BA:2159:G:P	2.70	0.50
26:BC:90:GLY:CA	26:BC:157:LYS:HB2	2.38	0.50
26:BC:10:LEU:HD12	26:BC:32:LEU:HD23	1.94	0.50
26:BC:56:GLN:NE2	26:BC:203:GLY:C	2.65	0.50
26:BC:73:ARG:HG2	26:BC:92:ASP:CG	2.31	0.50
26:BC:94:VAL:C	26:BC:99:ILE:HD12	2.32	0.50
1:AA:336:C:C2	1:AA:337:C:C5	2.99	0.50
1:AA:341:C:O2'	1:AA:342:C:O5'	2.29	0.50
26:BC:34:THR:O	26:BC:35:ALA:O	2.30	0.50
1:AA:1031:G:O2'	1:AA:1032:A:H5'	2.10	0.50
2:A1:3:U:H2'	2:A1:4:U:C5	2.47	0.50
1:AA:926:G:H22	2:A1:39:U:P	2.33	0.50
1:AA:108:G:C2	1:AA:109:A:N1	2.80	0.50
1:AA:1128:C:C4	1:AA:1139:G:O6	2.64	0.50
1:AA:1148:U:O2	1:AA:1148:U:C2'	2.58	0.50
1:AA:1117:G:N2	1:AA:1184:G:C4	2.80	0.50
1:AA:1255:G:H1'	1:AA:1259:C:H1'	1.93	0.50
1:AA:16:A:O4'	7:AH:17:ALA:HB3	2.12	0.50
1:AA:258:G:C6	1:AA:259:G:O6	2.65	0.50
1:AA:262:A:C4'	22:AW:74:LYS:HG3	2.41	0.50
1:AA:295:C:N4	1:AA:303:A:C2	2.80	0.50
1:AA:32:A:N6	1:AA:553:A:N6	2.59	0.50
1:AA:393:A:H2'	1:AA:394:G:H8	1.77	0.50
1:AA:410:G:N2	1:AA:429:U:N3	2.60	0.50
1:AA:465:A:N6	18:AS:82:GLN:HE22	2.10	0.50
1:AA:50:A:O2'	1:AA:360:A:C2	2.63	0.50
1:AA:27:G:C6	1:AA:557:G:C2	3.00	0.50
1:AA:627:G:O2'	1:AA:628:G:C5'	2.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:671:G:H2'	1:AA:672:U:H1'	1.93	0.50
1:AA:686:U:C4'	1:AA:686:U:OP1	2.60	0.50
1:AA:860:A:N7	1:AA:861:G:C4	2.79	0.50
1:AA:885:G:C2	1:AA:913:A:N1	2.80	0.50
1:AA:96:G:C2	1:AA:97:U:C2	3.00	0.50
1:AA:997:U:H6	1:AA:997:U:OP2	1.94	0.50
3:AB:74:C:H2'	3:AB:75:C:O4'	2.11	0.50
3:AB:9:A:C4	3:AB:46:G:N2	2.79	0.50
4:AE:114:ARG:O	4:AE:118:LEU:HB2	2.11	0.50
4:AE:28:PHE:CA	4:AE:194:PRO:HG2	2.41	0.50
4:AE:69:LEU:HB3	4:AE:162:ILE:CG2	2.36	0.50
5:AF:28:GLN:NE2	5:AF:29:TYR:N	2.60	0.50
5:AF:78:GLY:HA3	5:AF:82:GLU:OE1	2.11	0.50
5:AF:91:LEU:CD2	5:AF:91:LEU:C	2.79	0.50
6:AG:169:LYS:HA	6:AG:176:LEU:CD1	2.41	0.50
6:AG:199:ASN:OD1	6:AG:202:LEU:HG	2.12	0.50
6:AG:88:VAL:HG13	7:AH:97:GLY:HA3	1.93	0.50
7:AH:115:VAL:HG11	7:AH:118:ILE:CD1	2.41	0.50
8:AI:46:ARG:NH2	20:AU:37:VAL:HG13	2.27	0.50
9:AJ:5:ARG:C	9:AJ:5:ARG:HH11	2.15	0.50
1:AA:826:C:H5'	10:AK:12:ARG:CZ	2.41	0.50
10:AK:112:LEU:HD12	10:AK:131:GLY:O	2.11	0.50
10:AK:26:VAL:O	10:AK:58:TYR:HD1	1.94	0.50
11:AL:97:LYS:HB3	11:AL:98:PRO:CD	2.39	0.50
13:AN:57:THR:HG21	13:AN:59:TYR:HB3	1.93	0.50
13:AN:70:LYS:HD2	13:AN:70:LYS:H	1.77	0.50
15:AP:20:THR:OG1	15:AP:26:GLY:HA2	2.11	0.50
15:AP:67:GLU:HG3	15:AP:68:GLY:N	2.23	0.50
15:AP:90:LEU:HD23	15:AP:93:ARG:HD3	1.93	0.50
17:AR:71:GLN:CG	17:AR:75:PRO:HB3	2.23	0.50
18:AS:75:ARG:CG	18:AS:80:PHE:CB	2.81	0.50
18:AS:7:ALA:O	18:AS:17:TYR:HA	2.11	0.50
19:AT:45:HIS:ND1	19:AT:46:ASP:N	2.60	0.50
19:AT:88:TYR:N	19:AT:91:ARG:NH2	2.40	0.50
21:AV:11:VAL:HG22	21:AV:39:THR:O	2.11	0.50
22:AW:27:LYS:CD	22:AW:27:LYS:C	2.79	0.50
50:B3:54:GLY:O	50:B3:55:ARG:CB	2.59	0.50
50:B3:64:GLY:C	50:B3:68:ARG:CZ	2.80	0.50
51:B4:47:PRO:HG2	51:B4:48:GLU:OE1	2.11	0.50
24:BA:2394:C:H5'	54:B7:12:LYS:HZ1	1.77	0.50
54:B7:37:SER:OG	54:B7:38:GLY:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1034:G:OP2	55:B8:18:ARG:CZ	2.60	0.50
55:B8:32:HIS:O	55:B8:33:LYS:C	2.49	0.50
24:BA:1024:G:OP2	24:BA:1026:U:OP1	2.30	0.50
24:BA:1029:A:H61	24:BA:1125:G:H2'	1.76	0.50
24:BA:1289:C:H4'	24:BA:1330:C:C4'	2.41	0.50
24:BA:1613:G:N2	24:BA:1619:G:C8	2.76	0.50
24:BA:1907:G:C4	24:BA:1908:C:C5	3.00	0.50
24:BA:1920:C:O2'	24:BA:1921:G:H5'	2.11	0.50
24:BA:2029:G:C4	24:BA:2031:A:OP1	2.65	0.50
24:BA:2043:C:O2	24:BA:2044:C:C6	2.65	0.50
24:BA:204:A:O2'	24:BA:205:G:O5'	2.29	0.50
24:BA:2348:U:H2'	24:BA:2349:G:C5'	2.42	0.50
24:BA:2356:C:C4	24:BA:2357:U:O4	2.64	0.50
24:BA:2424:C:C5'	24:BA:2425:A:H5'	2.42	0.50
24:BA:2516:G:C4	24:BA:2569:G:C2	2.99	0.50
24:BA:2623:G:N3	24:BA:2623:G:H2'	2.26	0.50
24:BA:270(X):G:N3	24:BA:270(Y):G:H4'	2.27	0.50
24:BA:2722:G:C2	24:BA:2723:C:C2	3.00	0.50
24:BA:284:U:H2'	24:BA:285:C:C6	2.47	0.50
24:BA:461:C:N4	24:BA:469:G:H21	2.10	0.50
24:BA:507:A:H1'	24:BA:509:C:C4	2.47	0.50
24:BA:553:U:C4	24:BA:554:U:C4	3.00	0.50
24:BA:587:C:C4	24:BA:671:C:C6	3.00	0.50
24:BA:603:A:N6	24:BA:624:C:H41	2.06	0.50
24:BA:609:A:C5	24:BA:609(A):G:O6	2.64	0.50
24:BA:673:C:H5''	29:BF:81:PRO:HG3	1.93	0.50
24:BA:702:G:H2'	24:BA:703:U:C5'	2.41	0.50
24:BA:705:A:N6	24:BA:727:A:H1'	2.27	0.50
24:BA:940:G:N3	24:BA:1191:G:H4'	2.26	0.50
24:BA:964:C:C2'	24:BA:965:C:O5'	2.60	0.50
25:BB:59:A:N1	25:BB:60:C:H1'	2.27	0.50
25:BB:79:C:H2'	25:BB:80:U:O4'	2.12	0.50
27:BD:89:SER:HB2	27:BD:202:LYS:NZ	2.26	0.50
28:BE:176:ILE:HD11	28:BE:178:GLU:HB2	1.94	0.50
29:BF:45:ARG:HG2	29:BF:97:TYR:CG	2.47	0.50
30:BG:120:LEU:HA	30:BG:181:ARG:CB	2.42	0.50
30:BG:63:ILE:CG2	30:BG:64:THR:N	2.74	0.50
31:BH:105:LEU:HD12	31:BH:113:VAL:CG1	2.40	0.50
33:BL:27:LEU:CD2	33:BL:57:ILE:HD11	2.41	0.50
33:BL:90:LYS:HZ2	33:BL:93:ARG:HH22	1.59	0.50
34:BM:97:ARG:CA	34:BM:100:GLU:HG2	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:87:LEU:HD23	34:BM:88:GLU:N	2.27	0.50
35:BN:9:GLU:CA	35:BN:17:ARG:O	2.57	0.50
36:BO:115:LEU:O	36:BO:117:GLU:OE1	2.28	0.50
36:BO:131:SER:O	36:BO:135:LEU:HD13	2.11	0.50
37:BP:130:LYS:HZ1	37:BP:132:VAL:HG22	1.76	0.50
37:BP:44:ALA:CB	37:BP:93:TYR:O	2.58	0.50
37:BP:85:LYS:CG	37:BP:86:GLY:N	2.73	0.50
37:BP:85:LYS:NZ	47:BZ:10:THR:CG2	2.74	0.50
39:BR:69:VAL:CG1	39:BR:73:LEU:HD21	2.41	0.50
39:BR:88:ASP:CG	39:BR:89:ARG:N	2.62	0.50
25:BB:47:C:O2'	39:BR:92:TYR:CE1	2.64	0.50
40:BS:53:ARG:O	40:BS:100:TYR:CD2	2.64	0.50
41:BT:46:ALA:CA	41:BT:49:HIS:ND1	2.75	0.50
41:BT:83:LEU:H	41:BT:83:LEU:CD1	2.16	0.50
42:BU:60:GLU:OE1	42:BU:101:GLY:CA	2.60	0.50
43:BV:38:TYR:CD2	51:B4:39:MET:CE	2.94	0.50
43:BV:53:SER:O	43:BV:54:ALA:C	2.49	0.50
43:BV:25:ARG:C	43:BV:71:VAL:HG13	2.31	0.50
45:BX:1:MET:HG2	45:BX:33:LYS:CG	2.41	0.50
46:BY:70:LEU:C	46:BY:70:LEU:HD12	2.32	0.50
24:BA:2111:C:C4	24:BA:2145:C:C4	3.00	0.50
26:BC:49:ILE:HG13	26:BC:50:ASP:N	2.26	0.50
30:BG:91:ARG:CB	30:BG:91:ARG:NH2	2.64	0.50
1:AA:337:C:H2'	1:AA:338:A:H8	1.75	0.50
24:BA:1483:G:N9	24:BA:1507:A:C2	2.80	0.50
24:BA:487:C:H6	24:BA:487:C:O5'	1.95	0.50
29:BF:161:GLU:OE2	29:BF:161:GLU:HA	2.11	0.50
26:BC:142:ALA:O	26:BC:143:GLY:C	2.50	0.50
1:AA:102:G:H2'	1:AA:103:C:O4'	2.12	0.50
1:AA:1196:U:C6	1:AA:1196:U:C3'	2.94	0.50
1:AA:1224:G:C2'	1:AA:1225:A:OP1	2.60	0.50
1:AA:1284:C:C2	1:AA:1285:A:N7	2.79	0.50
1:AA:1302:U:O2'	1:AA:1303:C:OP1	2.24	0.50
1:AA:1314:C:N4	21:AV:4:SER:OG	2.45	0.50
1:AA:1377:A:C5'	1:AA:1378:C:C5	2.95	0.50
1:AA:393:A:C6	1:AA:394:G:N7	2.80	0.50
1:AA:430:A:N7	1:AA:431:A:N7	2.60	0.50
1:AA:433:C:H2'	1:AA:434:U:C6	2.47	0.50
1:AA:446:G:O2'	1:AA:447:G:H5'	2.11	0.50
1:AA:5:U:O2'	1:AA:6:G:P	2.70	0.50
1:AA:749:C:O2	1:AA:749:C:C2'	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:831:U:C2	1:AA:832:C:C5	2.99	0.50
3:AC:23:A:N6	3:AC:24:G:O6	2.45	0.50
4:AE:171:ALA:HA	4:AE:174:VAL:CB	2.40	0.50
4:AE:67:THR:CG2	4:AE:155:LEU:HD21	2.42	0.50
5:AF:76:VAL:CG1	5:AF:77:ILE:N	2.74	0.50
6:AG:98:GLU:CA	6:AG:103:ASN:ND2	2.68	0.50
6:AG:139:ARG:CG	6:AG:140:VAL:N	2.74	0.50
6:AG:165:MET:HG3	6:AG:166:LYS:N	2.26	0.50
6:AG:187:ARG:CD	6:AG:188:LEU:H	2.24	0.50
6:AG:64:LEU:CD1	6:AG:75:PHE:CZ	2.95	0.50
8:AI:1:MET:HA	8:AI:67:MET:O	2.11	0.50
8:AI:75:LEU:O	8:AI:76:ALA:C	2.50	0.50
9:AJ:51:GLN:CD	9:AJ:58:PRO:HD3	2.32	0.50
9:AJ:79:ARG:HA	9:AJ:83:ALA:O	2.11	0.50
9:AJ:79:ARG:NE	9:AJ:84:ASN:HB3	2.27	0.50
11:AL:5:TYR:CZ	11:AL:18:PHE:CZ	2.99	0.50
12:AM:19:SER:CA	12:AM:91:PRO:HG3	2.41	0.50
12:AM:57:LYS:O	12:AM:58:ASP:CG	2.50	0.50
13:AN:122:LYS:O	13:AN:123:LYS:C	2.50	0.50
13:AN:18:ARG:HB2	13:AN:20:TYR:CE1	2.44	0.50
13:AN:79:SER:HA	13:AN:104:GLN:HE21	1.76	0.50
13:AN:85:ARG:NE	13:AN:111:ASP:OD2	2.45	0.50
14:AO:39:VAL:HG11	14:AO:41:ARG:NH2	2.26	0.50
15:AP:88:ARG:CG	15:AP:98:VAL:HG12	2.27	0.50
17:AR:4:THR:HG22	17:AR:6:GLU:OE1	2.12	0.50
19:AT:12:SER:OG	19:AT:14:LYS:HD2	2.11	0.50
19:AT:2:PRO:O	19:AT:4:LYS:N	2.45	0.50
19:AT:7:THR:CG2	19:AT:57:VAL:O	2.58	0.50
24:BA:1158:C:H5'	49:B2:31:LEU:HB2	1.94	0.50
50:B3:68:ARG:HB2	50:B3:68:ARG:CZ	2.42	0.50
51:B4:13:LYS:O	51:B4:14:ALA:C	2.50	0.50
52:B5:27:LYS:HE3	52:B5:29:ASN:HD21	1.77	0.50
52:B5:19:ARG:NH2	52:B5:41:PRO:HG3	2.27	0.50
54:B7:5:LYS:C	54:B7:7:HIS:N	2.64	0.50
24:BA:1077:A:OP1	33:BL:93:ARG:HB2	2.12	0.50
24:BA:109:G:C6	24:BA:110:G:C8	3.00	0.50
24:BA:1110:G:O3'	24:BA:1111:A:O4'	2.29	0.50
24:BA:1241:A:C2'	24:BA:1242:A:OP1	2.60	0.50
24:BA:1272:A:H5'	24:BA:1646:C:C2	2.46	0.50
24:BA:1321:A:C2'	24:BA:1321:A:N3	2.74	0.50
24:BA:1326:U:C3'	24:BA:1327:C:H5'	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1331:A:O2'	24:BA:1332:G:C8	2.65	0.50
24:BA:1379:A:OP2	53:B6:10:ARG:NH2	2.39	0.50
24:BA:1439:A:H2'	24:BA:1440:G:O4'	2.12	0.50
24:BA:1517:G:N2	24:BA:1518:C:H1'	2.23	0.50
24:BA:1525:G:C2	24:BA:1526:G:C4	3.00	0.50
24:BA:1527:G:H8	24:BA:1527:G:H3'	1.71	0.50
24:BA:1638:C:H6	24:BA:1638:C:O5'	1.95	0.50
24:BA:154:G:N2	24:BA:173:G:C2	2.80	0.50
24:BA:1742:C:C3'	24:BA:1743:G:H5''	2.38	0.50
24:BA:1636:C:C1'	24:BA:1761:C:H1'	2.41	0.50
24:BA:1809:A:C5'	24:BA:1810:A:C2	2.88	0.50
24:BA:1819:A:OP1	27:BD:158:ALA:N	2.44	0.50
24:BA:1838:C:H5'	24:BA:1839:G:OP1	2.11	0.50
24:BA:1858:G:HO2'	24:BA:1859:A:H8	1.54	0.50
24:BA:1861:G:H5'	26:BC:205:LYS:HD2	1.92	0.50
24:BA:1917:U:C6	24:BA:1917:U:C3'	2.93	0.50
24:BA:193:U:H4'	24:BA:803:U:C5'	2.42	0.50
24:BA:1964:G:C4	24:BA:1967:C:H5	2.29	0.50
24:BA:2014:A:H2	24:BA:2613:U:C2	2.29	0.50
24:BA:2047:U:C2	24:BA:2048:G:N7	2.79	0.50
24:BA:2211:G:OP1	24:BA:2212:A:C5'	2.59	0.50
24:BA:2306:C:H5	24:BA:2311:A:C6	2.30	0.50
24:BA:2344:U:O2	24:BA:2344:U:C3'	2.58	0.50
24:BA:2356:C:C4	24:BA:2357:U:C4	2.99	0.50
24:BA:2376:A:OP1	24:BA:2376:A:C8	2.61	0.50
24:BA:1129:A:HO2'	24:BA:2515:C:H1'	1.76	0.50
24:BA:2692:C:O2'	24:BA:2693:A:H5'	2.11	0.50
24:BA:2771:C:H2'	24:BA:2772:C:H6	1.75	0.50
24:BA:2638:G:N1	24:BA:2776:A:OP2	2.37	0.50
24:BA:303:U:C2	24:BA:304:G:C8	3.00	0.50
24:BA:311:A:C1'	24:BA:332:A:C5	2.94	0.50
24:BA:447:A:C6	24:BA:473:G:N9	2.79	0.50
24:BA:571:A:N3	24:BA:573:G:N7	2.60	0.50
24:BA:588:U:O2'	24:BA:589:C:H5'	2.11	0.50
24:BA:627:A:N6	24:BA:637:A:H1'	2.26	0.50
24:BA:724:U:C2	24:BA:725:G:C8	3.00	0.50
24:BA:778:G:N2	24:BA:787:U:H1'	2.26	0.50
24:BA:909:A:C2	24:BA:912:C:C1'	2.95	0.50
24:BA:917:A:N6	24:BA:918:A:N1	2.60	0.50
24:BA:969:U:N3	24:BA:970:C:C5	2.79	0.50
24:BA:972:G:H3'	24:BA:973:A:C5'	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:974:G:P	24:BA:974(A):C:OP2	2.69	0.50
25:BB:43:C:O5'	25:BB:43:C:C6	2.48	0.50
25:BB:7:G:HO2'	25:BB:8:U:P	2.34	0.50
24:BA:764:A:OP1	27:BD:211:ARG:CA	2.57	0.50
27:BD:181:GLU:CB	27:BD:268:ARG:NE	2.75	0.50
27:BD:53:PHE:CE2	27:BD:221:VAL:HG13	2.46	0.50
28:BE:154:LYS:NZ	28:BE:156:MET:CB	2.71	0.50
31:BH:119:GLU:HA	31:BH:119:GLU:OE2	2.12	0.50
32:BK:28:ASN:C	32:BK:32:PRO:HD3	2.31	0.50
34:BM:115:ARG:HA	34:BM:118:LYS:CE	2.41	0.50
34:BM:67:LEU:N	34:BM:69:GLN:OE1	2.45	0.50
35:BN:59:LYS:C	35:BN:59:LYS:HE2	2.31	0.50
36:BO:70:GLN:CB	36:BO:110:TYR:OH	2.60	0.50
36:BO:40:SER:O	36:BO:40:SER:OG	2.28	0.50
39:BR:16:ASN:CG	39:BR:17:ARG:N	2.64	0.50
39:BR:27:SER:O	39:BR:28:VAL:O	2.30	0.50
39:BR:37:ALA:H	39:BR:51:ALA:HB3	1.76	0.50
39:BR:57:LYS:NZ	39:BR:65:VAL:N	2.60	0.50
24:BA:2876:G:OP1	40:BS:2:ASN:HB2	2.11	0.50
28:BE:8:LYS:HG3	40:BS:6:LEU:HD11	1.92	0.50
40:BS:68:TYR:CE1	40:BS:70:VAL:HA	2.47	0.50
41:BT:113:ALA:HA	41:BT:116:ALA:CB	2.42	0.50
41:BT:94:ASN:O	41:BT:97:ASP:N	2.44	0.50
42:BU:89:GLN:HG2	42:BU:91:TYR:CE1	2.47	0.50
43:BV:64:MET:HB3	43:BV:109:GLU:HG3	1.94	0.50
44:BW:3:THR:O	44:BW:4:ALA:HB3	2.11	0.50
45:BX:46:LYS:NZ	45:BX:49:VAL:CG2	2.74	0.50
46:BY:102:LEU:HG	46:BY:125:LEU:CD1	2.42	0.50
46:BY:6:LYS:HE3	46:BY:35:ARG:HG3	1.93	0.50
32:BK:116:LEU:HD13	32:BK:116:LEU:C	2.32	0.50
3:AD:50:U:H2'	3:AD:51:U:C6	2.47	0.50
3:AD:54:U:OP2	3:AD:55:U:O4	2.29	0.50
26:BC:64:LEU:HB3	26:BC:188:ASN:HD21	1.74	0.50
24:BA:1115:G:N3	24:BA:1115:G:C2'	2.73	0.50
24:BA:1485:G:O2'	24:BA:1486:A:H5'	2.11	0.50
24:BA:1511:A:H2'	24:BA:1512:G:C4'	2.41	0.50
2:A1:22:C:H2'	2:A1:23:A:N9	2.26	0.50
24:BA:439:G:H2'	24:BA:440:G:O4'	2.12	0.50
33:BL:61:ALA:C	33:BL:63:ARG:N	2.63	0.50
37:BP:30:GLY:O	37:BP:31:ASP:HB2	2.12	0.50
2:A1:41:U:H2'	2:A1:42:U:O4'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:51:U:O2'	2:A1:52:U:H5'	2.10	0.50
1:AA:1058:G:C2'	1:AA:1059:C:H5'	2.42	0.50
1:AA:1094:G:H3'	1:AA:1108:G:N2	2.27	0.50
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.77	0.50
1:AA:1160:G:O6	1:AA:1177:G:N2	2.44	0.50
1:AA:1191:A:H5''	5:AF:4:LYS:HD3	1.94	0.50
1:AA:1365:G:N1	1:AA:1366:C:C4	2.80	0.50
1:AA:1379:G:C5	1:AA:1380:U:C5	3.00	0.50
1:AA:1463:C:C2'	1:AA:1464:G:H5'	2.41	0.50
1:AA:156:G:C6	1:AA:157:G:N7	2.80	0.50
1:AA:254:G:C6	1:AA:273:A:C6	3.00	0.50
1:AA:451:A:OP1	1:AA:481:G:N1	2.43	0.50
1:AA:465:A:N6	1:AA:467:G:N3	2.60	0.50
1:AA:652:U:C2	1:AA:752:G:N2	2.79	0.50
1:AA:696:A:N6	1:AA:797:C:O2'	2.43	0.50
1:AA:778:G:C4	1:AA:779:C:C6	3.00	0.50
1:AA:833:U:C2	1:AA:834:C:H5	2.30	0.50
1:AA:957:U:H2'	1:AA:959:A:OP2	2.11	0.50
1:AA:999:U:C4	1:AA:1042:G:N1	2.80	0.50
3:AC:38:A:C2'	3:AC:39:U:H5'	2.42	0.50
4:AE:131:PRO:C	4:AE:133:LYS:N	2.64	0.50
4:AE:177:ALA:O	4:AE:179:LYS:N	2.45	0.50
4:AE:208:ILE:HG21	4:AE:239:VAL:CG1	2.37	0.50
5:AF:11:ARG:HH11	5:AF:15:THR:HG21	1.77	0.50
1:AA:532:A:H5''	5:AF:161:GLU:OE1	2.11	0.50
5:AF:11:ARG:HH22	5:AF:178:LEU:HA	1.77	0.50
5:AF:31:HIS:CE1	5:AF:34:LEU:HD13	2.47	0.50
5:AF:47:LEU:HD22	5:AF:47:LEU:N	2.27	0.50
6:AG:101:LEU:C	6:AG:104:VAL:HG22	2.26	0.50
6:AG:187:ARG:HH21	6:AG:188:LEU:HD11	1.77	0.50
7:AH:11:ILE:O	7:AH:12:LEU:C	2.50	0.50
7:AH:122:GLU:HG2	7:AH:126:ARG:CG	2.41	0.50
4:AE:178:ARG:O	10:AK:71:GLY:O	2.30	0.50
10:AK:69:ARG:O	10:AK:74:PRO:HA	2.10	0.50
11:AL:45:ALA:O	11:AL:78:LYS:CB	2.58	0.50
13:AN:102:GLY:O	13:AN:104:GLN:N	2.45	0.50
13:AN:63:LEU:HA	13:AN:66:LEU:CG	2.41	0.50
13:AN:13:GLN:CA	13:AN:76:GLY:HA3	2.42	0.50
14:AO:69:TYR:O	14:AO:71:PRO:CD	2.59	0.50
14:AO:85:ILE:CG1	14:AO:99:HIS:O	2.60	0.50
14:AO:89:ARG:NE	14:AO:97:ARG:HG3	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:26:ARG:HB3	16:AQ:43:CYS:HB3	1.94	0.50
17:AR:61:GLY:O	17:AR:62:GLN:C	2.50	0.50
17:AR:62:GLN:N	17:AR:65:ARG:HH12	2.10	0.50
20:AU:60:GLY:O	20:AU:64:ARG:HG3	2.11	0.50
21:AV:39:THR:O	21:AV:40:ILE:C	2.50	0.50
21:AV:58:VAL:O	21:AV:58:VAL:HG23	2.11	0.50
21:AV:58:VAL:HG21	21:AV:75:ALA:CB	2.41	0.50
49:B2:6:VAL:CG1	49:B2:55:ARG:O	2.52	0.50
55:B8:13:LYS:NZ	55:B8:13:LYS:HB3	2.27	0.50
24:BA:1007:C:H4'	34:BM:108:PRO:CD	2.41	0.50
24:BA:1020:A:O2'	24:BA:1021:A:N7	2.43	0.50
24:BA:1176:G:C8	24:BA:1177:A:O4'	2.65	0.50
24:BA:1203:G:O6	24:BA:1240:U:N1	2.35	0.50
24:BA:1373:A:C8	24:BA:1374:G:N7	2.80	0.50
24:BA:1444(A):A:N7	24:BA:1460:A:H2'	2.27	0.50
24:BA:1453:A:C2	24:BA:1454:U:H1'	2.47	0.50
24:BA:1451:C:H5''	24:BA:1453:A:H4'	1.93	0.50
24:BA:149:A:N7	24:BA:150:C:N1	2.60	0.50
24:BA:1833:U:O2	24:BA:1834:U:O2	2.28	0.50
24:BA:1939:U:O4	24:BA:1967:C:H1'	2.11	0.50
24:BA:2014:A:O5'	24:BA:2014:A:C8	2.61	0.50
24:BA:2277:G:C6	24:BA:2278:A:N7	2.79	0.50
24:BA:233:A:H2'	24:BA:234:C:H5'	1.92	0.50
24:BA:2336:A:O2'	24:BA:2385:C:O4'	2.29	0.50
24:BA:2417:C:C2	24:BA:2418:A:N7	2.79	0.50
24:BA:2469:A:C6	24:BA:2482:G:C8	3.00	0.50
24:BA:2491:U:C5	24:BA:2492:U:H5'	2.41	0.50
24:BA:2681:C:C5	24:BA:2727:G:C2	2.99	0.50
24:BA:2764:A:N7	24:BA:2766:G:O6	2.45	0.50
24:BA:283:A:H2'	24:BA:284:U:H5'	1.93	0.50
24:BA:408:G:N3	24:BA:409:C:C6	2.79	0.50
24:BA:452:G:C2	24:BA:458:G:N2	2.79	0.50
24:BA:450:G:O6	24:BA:453:C:P	2.69	0.50
24:BA:459:U:O5'	53:B6:40:TRP:CZ3	2.65	0.50
24:BA:571:A:C5	24:BA:2030:A:C6	3.00	0.50
24:BA:593:G:C5	24:BA:594:U:C5	3.00	0.50
24:BA:627:A:P	24:BA:637:A:N6	2.85	0.50
24:BA:653:A:H3'	24:BA:654:A:C4'	2.41	0.50
24:BA:733:G:H5''	24:BA:761:A:H61	1.76	0.50
24:BA:774:A:C5'	24:BA:778:G:H4'	2.41	0.50
24:BA:823:G:H5'	24:BA:824:A:OP2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:918:A:H2	24:BA:919:G:C4	2.30	0.50
24:BA:957:A:H4'	24:BA:958:U:OP2	2.04	0.50
25:BB:104:A:H62	25:BB:105:G:N2	2.09	0.50
27:BD:96:HIS:NE2	27:BD:102:LYS:CE	2.74	0.50
27:BD:177:LEU:O	27:BD:178:PRO:O	2.30	0.50
24:BA:1804:C:O3'	27:BD:250:TRP:CH2	2.64	0.50
28:BE:201:THR:O	28:BE:202:LYS:HB3	2.11	0.50
29:BF:110:LEU:HD23	29:BF:186:ILE:CD1	2.41	0.50
29:BF:125:LEU:HD13	29:BF:128:ALA:HB2	1.93	0.50
29:BF:132:VAL:C	29:BF:134:GLY:N	2.60	0.50
29:BF:141:ALA:O	29:BF:142:TRP:C	2.47	0.50
30:BG:30:GLU:HB3	30:BG:162:THR:HB	1.93	0.50
31:BH:159:GLU:O	31:BH:160:LYS:HB2	2.11	0.50
31:BH:69:ARG:HG3	31:BH:70:THR:HG23	1.93	0.50
34:BM:8:GLN:O	34:BM:9:VAL:C	2.50	0.50
35:BN:111:PHE:O	35:BN:114:ILE:N	2.44	0.50
35:BN:36:GLY:H	35:BN:61:VAL:HG12	1.76	0.50
24:BA:813:U:C4	36:BO:25:SER:HB3	2.47	0.50
36:BO:7:ARG:H	36:BO:8:PRO:CD	2.24	0.50
36:BO:88:LEU:HD21	36:BO:124:LYS:HZ1	1.76	0.50
37:BP:61:GLY:O	46:BY:177:PRO:O	2.30	0.50
37:BP:6:ARG:CZ	37:BP:8:LYS:H	2.25	0.50
37:BP:8:LYS:HZ3	37:BP:11:LYS:HZ3	1.54	0.50
38:BQ:53:HIS:CD2	38:BQ:56:LYS:NZ	2.80	0.50
38:BQ:58:GLY:CA	38:BQ:80:PHE:CZ	2.94	0.50
40:BS:110:ILE:CD1	40:BS:113:LYS:HE3	2.41	0.50
40:BS:28:VAL:HG22	40:BS:92:GLY:C	2.32	0.50
40:BS:49:VAL:O	40:BS:50:ILE:HG12	2.11	0.50
41:BT:102:GLU:O	41:BT:105:VAL:CB	2.59	0.50
41:BT:81:HIS:CB	41:BT:117:GLN:HE22	2.25	0.50
41:BT:42:ALA:O	41:BT:45:TYR:HB2	2.11	0.50
43:BV:20:VAL:CG1	43:BV:21:VAL:H	2.24	0.50
24:BA:748:G:OP1	43:BV:88:ARG:CD	2.60	0.50
45:BX:69:ALA:O	45:BX:71:LYS:HD2	2.11	0.50
46:BY:105:VAL:HG12	46:BY:107:THR:HG23	1.94	0.50
46:BY:111:VAL:HG21	46:BY:117:LEU:HG	1.92	0.50
25:BB:75:G:N2	46:BY:27:VAL:HG21	2.26	0.50
46:BY:31:ARG:O	46:BY:31:ARG:CZ	2.60	0.50
24:BA:2257:U:H5'	47:BZ:11:ARG:HD3	1.92	0.50
26:BC:97:GLU:OE1	26:BC:122:ALA:CB	2.60	0.50
24:BA:1582:C:C2	24:BA:1583:A:N7	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:33:LYS:HE2	39:BR:54:LEU:CD2	2.35	0.50
26:BC:71:GLN:CG	26:BC:72:VAL:N	2.75	0.50
24:BA:1231:G:C4	24:BA:1232:G:C8	3.00	0.50
31:BH:114:VAL:O	31:BH:114:VAL:HG13	2.11	0.50
2:A1:28:G:C2'	2:A1:29:G:H5'	2.41	0.50
1:AA:1204:A:C2'	1:AA:1205:U:H5'	2.41	0.50
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.47	0.50
1:AA:35:G:C6	1:AA:550:G:N1	2.80	0.50
1:AA:363:A:N7	14:AO:31:PRO:HD2	2.25	0.50
1:AA:404:U:O4'	6:AG:122:ARG:NH1	2.45	0.50
1:AA:429:U:O2	1:AA:430:A:C8	2.65	0.50
1:AA:571:U:OP1	1:AA:819:A:C8	2.65	0.50
1:AA:598:U:O2'	1:AA:599:C:H5'	2.12	0.50
1:AA:676:A:C4	1:AA:677:U:C5	2.99	0.50
3:AB:41:C:H6	3:AB:41:C:H5'	1.75	0.50
3:AC:34:G:C4	3:AC:35:A:N7	2.80	0.50
4:AE:163:PHE:CE1	4:AE:201:ILE:HD13	2.45	0.50
4:AE:171:ALA:O	4:AE:172:ILE:C	2.49	0.50
4:AE:72:GLY:C	4:AE:74:LYS:N	2.63	0.50
5:AF:30:ARG:CD	5:AF:30:ARG:H	2.23	0.50
6:AG:108:LEU:HD12	6:AG:183:GLY:HA3	1.93	0.50
7:AH:71:LEU:HG	7:AH:72:GLN:H	1.77	0.50
8:AI:52:ILE:CG2	8:AI:87:ARG:HH22	2.25	0.50
9:AJ:68:ASN:ND2	9:AJ:128:ALA:HA	2.27	0.50
9:AJ:69:VAL:C	9:AJ:138:LYS:HD2	2.32	0.50
9:AJ:75:VAL:HA	9:AJ:89:MET:HE3	1.93	0.50
10:AK:110:ALA:C	10:AK:111:ILE:HD12	2.31	0.50
12:AM:57:LYS:O	12:AM:57:LYS:HG2	2.11	0.50
13:AN:22:HIS:O	13:AN:28:THR:HG23	2.12	0.50
13:AN:62:GLN:OE1	13:AN:63:LEU:N	2.45	0.50
13:AN:63:LEU:HA	13:AN:66:LEU:CD1	2.41	0.50
14:AO:83:VAL:C	14:AO:104:VAL:HG11	2.32	0.50
14:AO:41:ARG:CB	14:AO:41:ARG:NH1	2.70	0.50
15:AP:39:ILE:O	15:AP:40:ASN:C	2.49	0.50
15:AP:96:LEU:N	15:AP:96:LEU:HD23	2.27	0.50
1:AA:580:U:C4'	17:AR:58:MET:HG2	2.42	0.50
18:AS:52:ASP:OD2	18:AS:55:ARG:N	2.45	0.50
21:AV:29:ARG:HG2	21:AV:48:THR:CB	2.42	0.50
21:AV:40:ILE:HB	21:AV:68:GLY:HA2	1.94	0.50
48:B1:14:VAL:O	48:B1:18:LYS:HG2	2.12	0.50
48:B1:25:ARG:NH2	48:B1:25:ARG:CG	2.73	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:39:ASP:C	49:B2:44:ARG:HD3	2.33	0.50
49:B2:5:LYS:NZ	49:B2:57:GLU:HB2	2.26	0.50
50:B3:56:VAL:C	50:B3:61:ARG:CZ	2.80	0.50
50:B3:65:ASP:HA	50:B3:68:ARG:NH1	2.27	0.50
51:B4:56:LYS:HG3	51:B4:57:VAL:HG13	1.93	0.50
52:B5:25:LYS:C	52:B5:26:ASN:ND2	2.66	0.50
53:B6:10:ARG:HD3	53:B6:14:LYS:NZ	2.27	0.50
24:BA:1031:G:C6	24:BA:1032:A:N6	2.80	0.50
24:BA:1045:A:H1'	24:BA:1047:G:C8	2.46	0.50
24:BA:1057:A:C5	24:BA:1085:A:N1	2.79	0.50
24:BA:1061:U:C4'	24:BA:1070:A:H1'	2.41	0.50
24:BA:1120:G:H2'	24:BA:1121:C:C6	2.47	0.50
24:BA:112:U:OP2	24:BA:112:U:H6	1.93	0.50
24:BA:1179:C:O2'	24:BA:1180:C:P	2.69	0.50
24:BA:1189:A:OP2	24:BA:1190:G:N7	2.44	0.50
24:BA:120:U:C2'	24:BA:149:A:N3	2.75	0.50
24:BA:1223:C:C5	24:BA:1227:A:N1	2.80	0.50
24:BA:1212:G:C5	24:BA:1236:G:N1	2.77	0.50
24:BA:1265:A:P	24:BA:2615:U:OP1	2.69	0.50
24:BA:13:A:HO2'	24:BA:14:A:P	2.35	0.50
24:BA:1448:G:H21	24:BA:1529:A:H2	1.59	0.50
24:BA:1451:C:C4'	24:BA:1451:C:OP2	2.60	0.50
24:BA:1495:A:H8	24:BA:1495:A:O5'	1.94	0.50
24:BA:1534:G:H2'	24:BA:1536:A:N7	2.27	0.50
24:BA:1544:C:H2'	24:BA:1545:A:O4'	2.12	0.50
24:BA:1789:A:N7	24:BA:1790:C:C5	2.79	0.50
24:BA:1907:G:H2'	24:BA:1908:C:C6	2.44	0.50
24:BA:1917:U:C6	24:BA:1917:U:H3'	2.46	0.50
24:BA:1919:A:H8	24:BA:1919:A:O5'	1.91	0.50
24:BA:1953:A:H62	24:BA:2550:G:C5'	2.25	0.50
24:BA:530:G:N2	24:BA:2021:C:H3'	2.19	0.50
24:BA:2029:G:O6	24:BA:2033:A:OP1	2.30	0.50
24:BA:2213:U:C2'	24:BA:2213:U:O2	2.60	0.50
24:BA:2297:C:C2	24:BA:2333:A:N6	2.80	0.50
24:BA:2426:A:H3'	24:BA:2427:C:H5'	1.93	0.50
24:BA:2441:C:H2'	24:BA:2442:C:C6	2.47	0.50
24:BA:2468:G:C5	24:BA:2481:G:C2	3.00	0.50
24:BA:2483:C:H2'	24:BA:2483:C:O2	2.10	0.50
24:BA:2461:C:C1'	24:BA:2492:U:C5	2.81	0.50
24:BA:2603:G:C6	24:BA:2604:U:C4	3.00	0.50
24:BA:2653:U:C3'	24:BA:2654:A:C8	2.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2716:U:H2'	24:BA:2717:G:O5'	2.12	0.50
24:BA:271(B):G:H5''	24:BA:271(C):U:H5'	1.92	0.50
24:BA:2877:G:H3'	24:BA:2878:U:H6	1.72	0.50
24:BA:2630:G:C4	24:BA:2894:G:C6	2.99	0.50
24:BA:311:A:C2	24:BA:328:U:O4	2.64	0.50
24:BA:379:G:O6	24:BA:380:U:C4	2.65	0.50
24:BA:448:U:O4	24:BA:583:G:C4	2.65	0.50
24:BA:588:U:C1'	29:BF:90:PHE:CD1	2.95	0.50
24:BA:591:C:C4	24:BA:592:G:N7	2.80	0.50
24:BA:606:U:H5	24:BA:606:U:OP2	1.95	0.50
24:BA:646:A:H2'	24:BA:647:G:C8	2.47	0.50
24:BA:730:C:C2'	24:BA:731:C:H5'	2.42	0.50
24:BA:731:C:C2'	24:BA:732:C:H5'	2.41	0.50
24:BA:764:A:OP1	27:BD:211:ARG:CB	2.60	0.50
24:BA:859:G:H3'	24:BA:859:G:H8	1.77	0.50
25:BB:14:U:C6	25:BB:14:U:H3'	2.43	0.50
25:BB:47:C:C2'	25:BB:48:A:H5'	2.42	0.50
25:BB:53:A:C6	25:BB:54:G:C5	3.00	0.50
27:BD:106:ILE:CG1	27:BD:108:PRO:HD3	2.36	0.50
27:BD:136:ILE:CG2	27:BD:165:ILE:HG21	2.41	0.50
27:BD:246:PRO:CB	27:BD:250:TRP:HB3	2.42	0.50
28:BE:115:GLY:O	28:BE:118:LYS:O	2.29	0.50
28:BE:116:VAL:HG12	28:BE:120:TRP:NE1	2.27	0.50
28:BE:119:ARG:CD	28:BE:156:MET:H	2.25	0.50
28:BE:202:LYS:C	28:BE:204:ALA:N	2.64	0.50
29:BF:169:ASN:HD21	29:BF:171:PRO:HG2	1.76	0.50
15:AP:3:ARG:HH22	30:BG:139:LEU:HD22	1.76	0.50
30:BG:62:LEU:HD23	30:BG:143:GLU:CG	2.40	0.50
32:BK:5:LEU:HD21	32:BK:17:GLN:C	2.32	0.50
34:BM:14:VAL:HG13	34:BM:138:LEU:C	2.32	0.50
36:BO:108:LYS:CD	36:BO:109:GLY:N	2.73	0.50
36:BO:17:LYS:HZ2	36:BO:17:LYS:HB2	1.77	0.50
36:BO:73:GLY:N	36:BO:107:LYS:HE3	2.27	0.50
36:BO:88:LEU:CD2	36:BO:124:LYS:HZ1	2.25	0.50
37:BP:11:LYS:NZ	37:BP:73:PRO:HB3	2.27	0.50
37:BP:122:GLY:HA2	37:BP:125:LEU:HD12	1.94	0.50
37:BP:134:ARG:HH21	37:BP:137:TYR:CB	2.25	0.50
37:BP:42:ILE:O	37:BP:94:VAL:CB	2.57	0.50
37:BP:66:ILE:O	37:BP:67:ARG:HB3	2.12	0.50
38:BQ:116:LEU:H	38:BQ:116:LEU:HD23	1.77	0.50
38:BQ:57:ARG:HH11	38:BQ:57:ARG:HG2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:4:LEU:O	38:BQ:6:SER:N	2.45	0.50
38:BQ:8:ARG:NH2	38:BQ:17:ARG:CD	2.74	0.50
38:BQ:93:GLY:O	38:BQ:95:THR:N	2.45	0.50
39:BR:30:ARG:HD2	39:BR:91:PRO:CG	2.42	0.50
40:BS:82:LEU:HD13	40:BS:84:GLN:CB	2.41	0.50
41:BT:66:ASN:OD1	41:BT:76:TYR:CD1	2.65	0.50
42:BU:17:GLY:C	42:BU:19:LYS:H	2.15	0.50
42:BU:20:LEU:HB2	42:BU:93:GLU:OE2	2.12	0.50
45:BX:35:TYR:CE2	45:BX:67:LEU:HD13	2.46	0.50
3:AD:56:C:N4	24:BA:2169:A:C2	2.80	0.50
24:BA:2150:U:O2	24:BA:2151:G:C8	2.64	0.50
24:BA:2158:A:HO2'	24:BA:2159:G:P	2.33	0.50
24:BA:2114:A:H61	24:BA:2170:A:H61	1.59	0.50
26:BC:161:ILE:HB	26:BC:174:PRO:HD2	1.93	0.50
26:BC:58:VAL:CG1	26:BC:199:HIS:HB3	2.42	0.50
26:BC:59:ARG:HH12	26:BC:164:ARG:HH11	1.57	0.50
24:BA:1622:G:O5'	24:BA:1622:G:H8	1.95	0.50
1:AA:615:C:H2'	1:AA:616:G:O4'	2.11	0.50
36:BO:94:GLU:C	36:BO:94:GLU:CD	2.70	0.50
1:AA:1027:C:C4	1:AA:1028:C:C5	2.99	0.50
1:AA:1058:G:O5'	1:AA:1058:G:C8	2.64	0.50
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.59	0.50
1:AA:1329:A:O3'	15:AP:24:GLY:HA2	2.12	0.50
1:AA:1352:C:H2'	1:AA:1353:G:O4'	2.12	0.50
1:AA:1413:A:H61	1:AA:1487:G:H1	1.60	0.50
1:AA:1419:G:O2'	1:AA:1420:C:C5'	2.60	0.50
1:AA:152:A:C8	1:AA:152:A:H3'	2.47	0.50
1:AA:1533:C:C2'	1:AA:1534:A:O5'	2.60	0.50
1:AA:181:G:C2'	1:AA:182:U:OP2	2.59	0.50
1:AA:186(D):C:H2'	1:AA:186(E):C:C5	2.46	0.50
1:AA:299:G:H2'	1:AA:300:A:C5	2.46	0.50
1:AA:322:C:H2'	1:AA:323:U:O4'	2.11	0.50
1:AA:327:A:O3'	1:AA:328:C:O4'	2.30	0.50
1:AA:355:C:H2'	1:AA:356:A:H8	1.77	0.50
1:AA:50:A:C2	1:AA:360:A:C2'	2.94	0.50
1:AA:373:A:H1'	1:AA:481:G:C1'	2.24	0.50
1:AA:380:G:N2	1:AA:382:A:C3'	2.75	0.50
1:AA:494:U:H2'	1:AA:495:A:C5'	2.42	0.50
1:AA:698:G:C6	1:AA:699:C:C4	3.00	0.50
1:AA:850:U:C2	1:AA:851:G:N7	2.80	0.50
1:AA:888:G:N1	1:AA:889:A:N6	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:962:C:N3	1:AA:974:A:N1	2.59	0.50
3:AD:75:C:H5''	3:AD:76:A:H4'	1.91	0.50
3:AD:76:A:N7	24:BA:2432:A:C2	2.79	0.50
4:AE:165:VAL:O	4:AE:187:LEU:O	2.30	0.50
4:AE:80:ILE:HB	4:AE:208:ILE:CD1	2.42	0.50
4:AE:60:ASP:CG	4:AE:64:ARG:HH22	2.14	0.50
5:AF:110:ASN:CG	5:AF:144:SER:OG	2.51	0.50
5:AF:114:PRO:HD3	5:AF:183:ASP:OD2	2.12	0.50
6:AG:173:TRP:HD1	6:AG:185:PHE:CE2	2.30	0.50
8:AI:1:MET:CB	8:AI:67:MET:O	2.59	0.50
8:AI:26:ILE:CG2	8:AI:30:LEU:HD11	2.39	0.50
8:AI:46:ARG:HH22	20:AU:37:VAL:HG13	1.74	0.50
9:AJ:107:ALA:HB3	9:AJ:134:ALA:HB2	1.94	0.50
9:AJ:69:VAL:CA	9:AJ:135:VAL:HG22	2.42	0.50
9:AJ:17:VAL:HG13	9:AJ:17:VAL:O	2.12	0.50
10:AK:44:PHE:O	10:AK:64:LYS:HD2	2.12	0.50
11:AL:118:LYS:O	11:AL:119:ALA:C	2.50	0.50
11:AL:11:LYS:C	11:AL:12:GLU:HG2	2.32	0.50
11:AL:22:GLY:C	11:AL:58:HIS:O	2.50	0.50
11:AL:5:TYR:CD2	11:AL:6:GLY:N	2.80	0.50
11:AL:27:THR:HG21	11:AL:62:TYR:CE1	2.47	0.50
11:AL:94:ALA:O	11:AL:95:LYS:HG2	2.12	0.50
13:AN:114:VAL:CG2	13:AN:115:PRO:N	2.75	0.50
13:AN:46:GLY:HA2	13:AN:55:LYS:HD2	1.93	0.50
15:AP:62:ASN:C	15:AP:64:TRP:N	2.65	0.50
17:AR:13:GLN:O	17:AR:14:GLU:C	2.50	0.50
1:AA:668:G:H1'	17:AR:46:HIS:NE2	2.27	0.50
19:AT:65:ILE:CG2	19:AT:69:LYS:HD2	2.40	0.50
20:AU:50:ILE:O	20:AU:52:PRO:HD3	2.12	0.50
1:AA:663:A:H4'	20:AU:61:LYS:HZ1	1.76	0.50
20:AU:79:LEU:N	20:AU:79:LEU:CD1	2.75	0.50
21:AV:22:LEU:CA	21:AV:25:LYS:HZ1	2.24	0.50
21:AV:33:THR:OG1	21:AV:49:ILE:HD12	2.12	0.50
1:AA:333:G:C4'	22:AW:16:HIS:CD2	2.93	0.50
48:B1:19:LEU:O	48:B1:19:LEU:HD22	2.11	0.50
50:B3:29:PRO:O	50:B3:31:ILE:HD12	2.12	0.50
50:B3:29:PRO:CG	50:B3:31:ILE:CG2	2.88	0.50
52:B5:22:ALA:C	52:B5:23:THR:HG23	2.32	0.50
53:B6:22:MET:O	53:B6:28:ARG:CG	2.60	0.50
24:BA:1311:G:N7	53:B6:48:LYS:HD3	2.27	0.50
24:BA:105:C:H2'	24:BA:106:C:C6	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1176:G:H8	24:BA:1177:A:O4'	1.95	0.50
24:BA:117:G:C4	24:BA:119:A:N6	2.80	0.50
24:BA:1239:G:H2'	24:BA:1240:U:C4'	2.42	0.50
24:BA:1314:C:C6	24:BA:1314:C:O5'	2.65	0.50
24:BA:1357:U:N3	24:BA:1358:G:C2	2.80	0.50
24:BA:1444:G:H5'	24:BA:1444(A):A:OP2	2.12	0.50
24:BA:699:A:H1'	24:BA:1634:A:C8	2.47	0.50
24:BA:1807:G:N2	24:BA:1809:A:P	2.85	0.50
24:BA:1825:A:O2'	27:BD:252:TRP:CZ3	2.64	0.50
24:BA:1925:C:C2'	24:BA:1926:U:O5'	2.60	0.50
24:BA:1930:G:H2'	24:BA:1931:U:OP2	2.12	0.50
24:BA:1936:A:C4	24:BA:1945:G:C5	3.00	0.50
24:BA:1968:G:O2'	24:BA:1969:A:H8	1.95	0.50
24:BA:532:A:P	24:BA:2021:C:N4	2.84	0.50
24:BA:2037:G:H2'	24:BA:2038:G:H8	1.74	0.50
24:BA:215:G:O4'	24:BA:216:A:H4'	2.11	0.50
24:BA:2247:A:H2'	24:BA:2248:C:C6	2.47	0.50
24:BA:2256:G:H5''	24:BA:2256:G:C8	2.46	0.50
24:BA:2346:A:C5'	24:BA:2383:G:O4'	2.60	0.50
24:BA:2525:G:O2'	24:BA:2741:A:H2	1.93	0.50
24:BA:244:A:N3	24:BA:255:A:C2	2.80	0.50
24:BA:2587:A:C3'	24:BA:2588:G:H5'	2.42	0.50
24:BA:2597:G:O2'	24:BA:2598:A:O5'	2.30	0.50
24:BA:270(H):C:O2'	24:BA:270(I):G:H5'	2.12	0.50
24:BA:2745:C:C4	24:BA:2746:U:C5	3.00	0.50
24:BA:2839:G:C4	24:BA:2840:C:C6	3.00	0.50
24:BA:307:G:H22	24:BA:310:A:C5'	2.25	0.50
24:BA:386:G:O2'	24:BA:387:U:C5	2.60	0.50
24:BA:411:G:O5'	24:BA:412:A:OP2	2.29	0.50
24:BA:462:C:C5	24:BA:468:G:N2	2.80	0.50
24:BA:558:G:H5''	34:BM:109:LYS:CG	2.41	0.50
24:BA:572:A:C5	24:BA:573:G:N1	2.80	0.50
24:BA:576:U:O5'	24:BA:576:U:H6	1.95	0.50
24:BA:618:G:N7	24:BA:618(A):C:C5	2.80	0.50
24:BA:678:C:C2	24:BA:679:C:C6	3.00	0.50
24:BA:764:A:C6	24:BA:1789:A:C2	3.00	0.50
24:BA:799:G:C6	24:BA:800:A:N1	2.80	0.50
24:BA:880:G:C4	24:BA:881:G:H1'	2.47	0.50
24:BA:978:G:H2'	24:BA:979:G:C8	2.47	0.50
24:BA:997:G:H2'	24:BA:998:C:H5	1.75	0.50
25:BB:71:C:C2	25:BB:72:G:O4'	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:117:VAL:CG1	27:BD:118:VAL:N	2.74	0.50
27:BD:188:GLU:H	27:BD:188:GLU:CD	2.15	0.50
27:BD:205:VAL:HG13	27:BD:205:VAL:O	2.11	0.50
27:BD:224:ALA:HB2	27:BD:233:HIS:CG	2.47	0.50
27:BD:5:LYS:HB2	27:BD:82:ILE:CD1	2.39	0.50
28:BE:120:TRP:CG	28:BE:121:ASN:N	2.77	0.50
28:BE:5:LEU:CD1	28:BE:197:ILE:HA	2.42	0.50
24:BA:2635:C:O2'	28:BE:79:ARG:HD2	2.12	0.50
28:BE:97:LYS:HG3	28:BE:100:GLU:CD	2.33	0.50
29:BF:196:LEU:O	29:BF:199:TRP:HB2	2.11	0.50
30:BG:170:ARG:HH11	30:BG:170:ARG:HG2	1.77	0.50
3:AC:57:G:OP1	30:BG:81:LYS:CD	2.60	0.50
31:BH:74:ASN:HB2	31:BH:138:LYS:HZ1	1.75	0.50
33:BL:79:ARG:NH1	33:BL:87:GLY:CA	2.75	0.50
34:BM:112:LEU:C	34:BM:114:ARG:N	2.63	0.50
34:BM:13:TRP:C	34:BM:14:VAL:CG2	2.79	0.50
34:BM:35:ARG:HB3	34:BM:37:LYS:H	1.76	0.50
34:BM:44:PRO:HG2	34:BM:45:ASN:H	1.77	0.50
34:BM:23:LEU:CG	34:BM:61:ARG:O	2.60	0.50
35:BN:112:MET:O	35:BN:113:LYS:C	2.50	0.50
35:BN:23:ARG:NH1	35:BN:30:ALA:HB2	2.27	0.50
36:BO:97:PRO:CD	36:BO:102:ARG:CZ	2.90	0.50
36:BO:108:LYS:CG	36:BO:109:GLY:N	2.75	0.50
36:BO:122:PRO:HB2	36:BO:138:LEU:CA	2.40	0.50
36:BO:79:ARG:HA	36:BO:79:ARG:NH2	2.26	0.50
36:BO:87:ASP:O	36:BO:89:ALA:N	2.45	0.50
37:BP:50:ALA:O	37:BP:51:ARG:C	2.50	0.50
38:BQ:99:LYS:HE2	51:B4:43:HIS:ND1	2.26	0.50
40:BS:76:PHE:CZ	40:BS:78:LEU:CD1	2.94	0.50
41:BT:111:GLU:HG3	41:BT:112:ARG:H	1.77	0.50
41:BT:14:HIS:O	41:BT:15:LYS:C	2.50	0.50
41:BT:65:ILE:HG23	41:BT:96:ALA:HA	1.94	0.50
46:BY:95:PRO:N	46:BY:130:PRO:HA	2.26	0.50
46:BY:152:ALA:HA	46:BY:155:LEU:CD2	2.42	0.50
37:BP:61:GLY:HA2	46:BY:178:GLU:HG3	1.94	0.50
46:BY:80:ARG:C	46:BY:81:ARG:HG3	2.32	0.50
3:AD:49:C:N3	3:AD:50:U:C5	2.80	0.50
24:BA:2111:C:N3	24:BA:2145:C:H2'	2.27	0.50
26:BC:78:ALA:HA	26:BC:119:VAL:CG2	2.42	0.50
26:BC:127:LEU:HA	26:BC:130:ILE:HD13	1.93	0.50
26:BC:66:HIS:CD2	26:BC:180:PHE:HE2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:184:LYS:O	26:BC:185:LEU:C	2.49	0.50
2:A1:43:U:O2	2:A1:44:U:C5	2.65	0.50
24:BA:1767:C:C2	24:BA:1768:U:C6	3.00	0.50
7:AH:8:GLU:O	7:AH:8:GLU:CD	2.50	0.50
2:A1:34:U:OP2	2:A1:34:U:C6	2.65	0.49
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.12	0.49
1:AA:1181:G:N7	1:AA:1182:G:C2	2.80	0.49
1:AA:1240:U:H2'	9:AJ:32:ARG:NH2	2.20	0.49
1:AA:1242:C:C4	1:AA:1243:C:C5	3.00	0.49
1:AA:1301:U:C4	1:AA:1303:C:N1	2.81	0.49
1:AA:1306:A:H3'	1:AA:1307:U:C6	2.47	0.49
1:AA:926:G:C4	1:AA:1505:G:N2	2.80	0.49
1:AA:246:A:C4	1:AA:282:A:N6	2.79	0.49
1:AA:247:G:O2'	1:AA:248:C:H5'	2.12	0.49
1:AA:275:G:O2'	1:AA:276:G:H5'	2.12	0.49
1:AA:295:C:H2'	1:AA:296:U:O4'	2.11	0.49
1:AA:484:G:C8	1:AA:486:U:C4	3.00	0.49
1:AA:50:A:O2'	1:AA:52:G:C8	2.57	0.49
1:AA:56:U:H2'	1:AA:57:G:C8	2.44	0.49
1:AA:579:G:HO2'	1:AA:580:U:H5'	1.76	0.49
1:AA:594:G:H2'	1:AA:595:G:H1'	1.94	0.49
1:AA:687:A:H2	1:AA:700:G:H21	1.56	0.49
1:AA:757:U:H4'	1:AA:879:C:O2	2.12	0.49
1:AA:947:G:C2	1:AA:948:C:C2	3.00	0.49
3:AB:58:A:O2'	3:AB:59:U:H5''	2.12	0.49
3:AC:7:A:O2'	3:AC:8:U:OP1	2.25	0.49
4:AE:144:ARG:O	4:AE:147:LYS:CB	2.60	0.49
4:AE:92:TYR:O	4:AE:152:PHE:CB	2.59	0.49
4:AE:60:ASP:CB	4:AE:64:ARG:NH1	2.74	0.49
5:AF:119:ARG:HG2	5:AF:120:VAL:N	2.25	0.49
5:AF:157:ILE:CG1	5:AF:164:ARG:HG2	2.40	0.49
5:AF:138:VAL:HG12	5:AF:170:GLN:HE21	1.77	0.49
5:AF:191:THR:HB	5:AF:193:TYR:CD2	2.47	0.49
6:AG:148:VAL:HG21	6:AG:162:LEU:HD21	1.93	0.49
7:AH:108:ALA:HA	7:AH:111:GLU:OE1	2.12	0.49
9:AJ:111:ARG:HH12	9:AJ:112:PRO:HD2	1.74	0.49
10:AK:60:ARG:HG3	10:AK:61:VAL:N	2.26	0.49
11:AL:47:LEU:CD1	11:AL:50:LEU:HB3	2.31	0.49
11:AL:51:ARG:NH1	11:AL:51:ARG:CA	2.73	0.49
12:AM:5:ARG:O	12:AM:6:ILE:HG23	2.12	0.49
13:AN:67:ASP:N	13:AN:70:LYS:HZ2	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:20:TYR:CD2	13:AN:83:ILE:HG21	2.47	0.49
13:AN:24:SER:O	13:AN:88:GLY:HA2	2.12	0.49
14:AO:100:ILE:H	14:AO:100:ILE:CD1	2.21	0.49
14:AO:117:ARG:HH11	14:AO:117:ARG:CG	2.12	0.49
15:AP:26:GLY:O	15:AP:29:ARG:HB2	2.12	0.49
17:AR:15:PHE:CD2	17:AR:15:PHE:N	2.79	0.49
19:AT:11:VAL:HB	19:AT:20:THR:CB	2.41	0.49
19:AT:12:SER:H	19:AT:20:THR:HG1	1.59	0.49
19:AT:22:LEU:HD13	19:AT:41:LYS:CA	2.42	0.49
20:AU:46:GLU:N	20:AU:49:LYS:HZ1	2.09	0.49
20:AU:52:PRO:O	20:AU:55:ARG:N	2.40	0.49
21:AV:19:VAL:HG22	21:AV:43:GLU:OE2	2.12	0.49
22:AW:53:LEU:HB2	22:AW:100:ILE:HG13	1.94	0.49
22:AW:30:LYS:O	22:AW:34:LYS:HG3	2.12	0.49
48:B1:19:LEU:CD1	48:B1:55:LEU:HG	2.42	0.49
49:B2:26:LEU:CG	49:B2:35:ARG:NH1	2.70	0.49
54:B7:30:ARG:CG	54:B7:31:HIS:H	2.23	0.49
24:BA:98:G:O2'	24:BA:103:A:C1'	2.60	0.49
24:BA:1120:G:H2'	24:BA:1121:C:H6	1.77	0.49
24:BA:1164:G:C2'	24:BA:1165:U:O5'	2.60	0.49
24:BA:1235:G:C2	24:BA:1236:G:N2	2.80	0.49
24:BA:1457:A:H2'	24:BA:1458:C:H5'	1.94	0.49
24:BA:1729:A:H3'	24:BA:1730:U:O4'	2.12	0.49
24:BA:1729:A:H2'	24:BA:1730:U:H5'	1.94	0.49
24:BA:1731:G:N3	24:BA:1731:G:C2'	2.74	0.49
24:BA:1759:A:N1	24:BA:1760:A:C2	2.81	0.49
24:BA:1969:A:O2'	24:BA:1972:A:H1'	2.12	0.49
24:BA:1975:G:O2'	24:BA:1976:U:C5'	2.60	0.49
24:BA:2057:A:C8	24:BA:2058:A:N7	2.80	0.49
24:BA:2296:U:O4	39:BR:5:THR:HG23	2.12	0.49
24:BA:2312:U:O4'	30:BG:43:LEU:HD13	2.12	0.49
24:BA:220:G:O2'	24:BA:233:A:C2	2.65	0.49
24:BA:2358:G:N2	24:BA:2359:C:C1'	2.75	0.49
24:BA:237:C:O2'	24:BA:238:C:H5'	2.12	0.49
24:BA:239:U:C2	24:BA:259:G:N1	2.80	0.49
24:BA:410:G:C2	24:BA:2407:G:N7	2.80	0.49
24:BA:957:A:H2	24:BA:2459:A:OP1	1.95	0.49
24:BA:2464:C:C4	24:BA:2465:C:C5	3.00	0.49
24:BA:195:A:H4'	24:BA:251:A:O4'	2.11	0.49
24:BA:2544:G:H2'	24:BA:2545:G:C5'	2.42	0.49
24:BA:257:A:C2'	24:BA:258:G:H5'	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2794:C:C2	24:BA:2799:A:C2	3.00	0.49
24:BA:2854:G:H2'	24:BA:2855:C:C6	2.47	0.49
24:BA:2899:G:C5	24:BA:2900:A:N7	2.80	0.49
24:BA:360:G:C2'	24:BA:361:G:O5'	2.59	0.49
24:BA:364:C:C2'	24:BA:365:C:C5	2.80	0.49
24:BA:397:G:OP2	50:B3:10:VAL:HG11	2.11	0.49
24:BA:429:A:C2'	24:BA:430:G:C8	2.89	0.49
24:BA:547:A:C5	24:BA:548:A:C5	2.99	0.49
24:BA:665:C:O2'	24:BA:666:G:O5'	2.19	0.49
24:BA:751:A:OP1	24:BA:1614:A:OP1	2.30	0.49
24:BA:800:A:N9	24:BA:802:A:H5'	2.27	0.49
24:BA:866:A:N3	24:BA:866:A:C2'	2.74	0.49
24:BA:928:G:N7	24:BA:929:G:C4	2.80	0.49
24:BA:931:G:C2	49:B2:24:LYS:HB3	2.46	0.49
24:BA:934:G:C6	24:BA:935:C:C5	3.00	0.49
24:BA:974:G:H8	24:BA:974(A):C:O4'	1.95	0.49
24:BA:988:A:H8	24:BA:988:A:O5'	1.96	0.49
24:BA:997:G:H2'	24:BA:998:C:C6	2.47	0.49
25:BB:112:G:C2'	25:BB:112:G:N3	2.74	0.49
25:BB:43:C:N3	30:BG:95:ARG:NH2	2.59	0.49
25:BB:60:C:H2'	25:BB:61:G:C8	2.47	0.49
27:BD:97:TYR:HB3	27:BD:99:ASP:OD1	2.12	0.49
28:BE:127:ASP:O	28:BE:128:SER:HB3	2.11	0.49
28:BE:64:LYS:O	28:BE:65:GLY:C	2.50	0.49
29:BF:20:LEU:N	29:BF:20:LEU:HD23	2.11	0.49
29:BF:97:TYR:CD2	29:BF:97:TYR:N	2.78	0.49
30:BG:115:ARG:O	30:BG:117:PHE:N	2.45	0.49
30:BG:135:LEU:HD11	30:BG:137:GLU:O	2.11	0.49
30:BG:111:LEU:HD23	30:BG:178:PHE:HD2	1.77	0.49
30:BG:39:ILE:HG23	30:BG:157:ILE:HG13	1.91	0.49
30:BG:56:ALA:HB3	30:BG:68:PRO:CB	2.41	0.49
34:BM:114:ARG:O	34:BM:115:ARG:C	2.48	0.49
35:BN:59:LYS:O	35:BN:59:LYS:HE2	2.12	0.49
36:BO:107:LYS:O	36:BO:108:LYS:C	2.50	0.49
38:BQ:105:ARG:O	38:BQ:107:ASP:N	2.43	0.49
24:BA:2882:A:H4'	38:BQ:98:LEU:HD21	1.92	0.49
39:BR:12:PHE:CG	39:BR:13:ARG:N	2.80	0.49
25:BB:7:G:C4'	39:BR:29:PHE:HE2	2.17	0.49
39:BR:9:ARG:NH1	39:BR:9:ARG:CB	2.47	0.49
41:BT:5:LYS:C	41:BT:7:GLY:N	2.65	0.49
41:BT:69:CYS:SG	41:BT:70:ARG:N	2.85	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:88:ILE:HG12	42:BU:52:VAL:CG2	2.41	0.49
43:BV:24:ILE:HG22	43:BV:32:ALA:CB	2.39	0.49
44:BW:35:THR:HB	44:BW:38:GLU:HB2	1.93	0.49
44:BW:42:ALA:O	44:BW:46:ALA:HB3	2.12	0.49
44:BW:60:ARG:HD3	44:BW:62:LYS:HZ1	1.74	0.49
32:BK:53:ALA:HB1	32:BK:57:ARG:HH21	1.77	0.49
3:AD:58:A:O2'	3:AD:61:C:C5	2.64	0.49
24:BA:1510:A:C5'	24:BA:1511:A:OP2	2.60	0.49
2:A1:37:U:H3'	2:A1:38:U:C5	2.46	0.49
1:AA:1037:C:C4	1:AA:1038:C:C4	3.00	0.49
1:AA:110:C:C6	1:AA:110:C:O5'	2.65	0.49
1:AA:1205:U:H2'	1:AA:1206:G:C8	2.46	0.49
1:AA:122:G:C2	1:AA:123:C:H1'	2.47	0.49
1:AA:1436:U:H3'	1:AA:1437:C:C6	2.47	0.49
1:AA:1415:G:C6	1:AA:1486:G:C6	3.00	0.49
1:AA:21:G:N2	1:AA:916:G:C6	2.80	0.49
1:AA:22:G:C2	1:AA:23:C:C2	3.00	0.49
1:AA:306:G:C4	1:AA:307:C:C6	3.00	0.49
1:AA:315:A:N3	1:AA:315:A:H2'	2.27	0.49
1:AA:364:A:C2	1:AA:365:U:O4	2.65	0.49
1:AA:429:U:H4'	1:AA:430:A:C5'	2.41	0.49
1:AA:447:G:O5'	1:AA:447:G:C8	2.59	0.49
1:AA:44:G:H2'	1:AA:45:U:H5'	1.94	0.49
1:AA:468:A:C5	1:AA:474:G:C5	3.00	0.49
1:AA:595:G:N7	1:AA:641:U:C4	2.80	0.49
1:AA:720:C:H4'	20:AU:50:ILE:HG22	1.94	0.49
1:AA:769:G:H22	1:AA:811:C:H1'	1.77	0.49
1:AA:778:G:C6	1:AA:779:C:C4	2.99	0.49
1:AA:817:C:O2'	1:AA:818:G:OP2	2.30	0.49
1:AA:929:G:C6	1:AA:930:C:C5	3.00	0.49
1:AA:935:A:C4	1:AA:936:C:C5	3.00	0.49
1:AA:947:G:C2	1:AA:948:C:N1	2.80	0.49
1:AA:960:U:H2'	1:AA:960:U:O2	2.11	0.49
1:AA:967:C:OP2	1:AA:968:A:H3'	2.13	0.49
3:AB:63:G:O2'	24:BA:2482:G:C5'	2.60	0.49
3:AC:47:U:C6	3:AC:47:U:C3'	2.94	0.49
3:AC:19:G:N2	3:AC:56:C:N3	2.60	0.49
3:AC:65:G:H2'	3:AC:66:U:H6	1.77	0.49
3:AC:75:C:OP2	24:BA:2602:A:C8	2.65	0.49
4:AE:136:VAL:CA	4:AE:139:LYS:NZ	2.73	0.49
4:AE:177:ALA:O	4:AE:178:ARG:C	2.49	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:61:LEU:HD21	4:AE:68:ILE:HD11	1.93	0.49
5:AF:12:LEU:CD1	16:AQ:57:ARG:HG3	2.41	0.49
1:AA:1107:C:OP1	5:AF:172:ARG:NH1	2.45	0.49
5:AF:6:HIS:NE2	5:AF:8:ILE:HB	2.26	0.49
6:AG:135:LEU:CD1	6:AG:138:TYR:HB2	2.39	0.49
7:AH:44:GLY:O	7:AH:58:ALA:HB1	2.12	0.49
8:AI:42:GLU:HB2	8:AI:61:LEU:CD2	2.41	0.49
8:AI:1:MET:HB3	8:AI:67:MET:O	2.12	0.49
8:AI:96:PRO:HD2	20:AU:32:ARG:HE	1.76	0.49
11:AL:47:LEU:O	11:AL:50:LEU:HB3	2.13	0.49
11:AL:5:TYR:HD2	11:AL:6:GLY:N	2.10	0.49
12:AM:23:ILE:HG13	12:AM:85:LEU:CB	2.30	0.49
15:AP:23:TYR:HD2	15:AP:70:LEU:HD13	1.77	0.49
15:AP:4:ILE:O	15:AP:5:ALA:CB	2.60	0.49
17:AR:29:VAL:O	17:AR:30:ALA:C	2.50	0.49
17:AR:79:ARG:HA	17:AR:82:ILE:CD1	2.42	0.49
17:AR:83:GLU:O	17:AR:84:LYS:C	2.49	0.49
18:AS:14:ASN:CA	18:AS:42:ARG:NH2	2.76	0.49
20:AU:49:LYS:CE	20:AU:49:LYS:H	2.20	0.49
13:AN:84:VAL:HG21	20:AU:88:LYS:NZ	2.27	0.49
44:BW:7:VAL:HG23	48:B1:28:MET:CE	2.42	0.49
24:BA:2345:G:P	52:B5:39:TYR:HA	2.52	0.49
53:B6:41:ARG:CG	53:B6:42:LEU:N	2.74	0.49
53:B6:5:TRP:HA	53:B6:5:TRP:HE3	1.77	0.49
54:B7:9:GLY:O	54:B7:10:ALA:C	2.50	0.49
24:BA:1103:A:OP2	24:BA:1104:C:C6	2.65	0.49
24:BA:991:C:C5	24:BA:1185:C:C4	3.00	0.49
24:BA:1196:C:H2'	24:BA:1197:G:C1'	2.42	0.49
24:BA:1309:G:OP1	53:B6:8:ASN:ND2	2.44	0.49
24:BA:1312:U:C6	24:BA:1313:U:C5	3.00	0.49
24:BA:1361:G:H2'	24:BA:1362:C:H6	1.77	0.49
24:BA:1475:G:C2	24:BA:1476:C:H6	2.31	0.49
24:BA:1544:C:O2'	24:BA:1545:A:O4'	2.30	0.49
24:BA:1575:C:N4	24:BA:1576:U:C4	2.80	0.49
24:BA:1672:C:H2'	24:BA:1673:U:H5''	1.94	0.49
24:BA:1905:C:H2'	24:BA:1930:G:C8	2.47	0.49
24:BA:2007:C:N3	24:BA:2008:C:C5	2.80	0.49
24:BA:2041:U:C2	24:BA:2042:A:N7	2.80	0.49
24:BA:2051:A:C2'	28:BE:141:ILE:HD11	2.43	0.49
24:BA:2052:G:C4	24:BA:2053:G:C8	2.99	0.49
24:BA:2076:U:C5'	24:BA:2077:A:P	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:220:G:O6	24:BA:427:U:H3'	2.12	0.49
24:BA:2247:A:H2'	24:BA:2248:C:H6	1.76	0.49
24:BA:2311:A:H2	30:BG:45:GLU:CD	2.14	0.49
24:BA:2385:C:C4	24:BA:2386:C:C5	3.01	0.49
24:BA:2427:C:H4'	24:BA:2428:G:C5'	2.42	0.49
24:BA:2461:C:O2'	24:BA:2462:U:H5'	2.11	0.49
24:BA:251:A:OP2	24:BA:251:A:H3'	2.12	0.49
24:BA:2589:A:C4	24:BA:2590:A:C8	3.01	0.49
24:BA:2675:A:N1	24:BA:2732:G:C2	2.80	0.49
24:BA:2736:G:C2	24:BA:2769:C:C2	3.00	0.49
24:BA:2808:U:C2	24:BA:2892:A:C6	2.99	0.49
24:BA:2850:A:C5	24:BA:2851:A:N7	2.80	0.49
24:BA:2881:C:C2	24:BA:2882:A:N7	2.80	0.49
24:BA:493:G:N2	24:BA:494:G:C1'	2.75	0.49
24:BA:531:C:O4'	24:BA:2035:G:N2	2.43	0.49
24:BA:572:A:N7	24:BA:573:G:C5	2.80	0.49
24:BA:590:A:H5'	29:BF:93:LYS:HZ2	1.76	0.49
24:BA:602:G:H4'	24:BA:603:A:O3'	2.12	0.49
24:BA:646:A:C2	24:BA:647:G:C5	3.00	0.49
24:BA:744:G:H5'	24:BA:1659:U:OP1	2.12	0.49
24:BA:764:A:OP1	27:BD:211:ARG:HB3	2.12	0.49
24:BA:820:A:N7	24:BA:973:A:N6	2.59	0.49
24:BA:858:U:C5	24:BA:859:G:N2	2.80	0.49
24:BA:863:A:H2'	24:BA:864:G:C8	2.47	0.49
24:BA:962:G:C2	24:BA:963:U:C2	3.00	0.49
24:BA:988:A:HO2'	24:BA:1157:G:H5'	1.75	0.49
25:BB:16:G:H22	25:BB:69:G:H1'	1.77	0.49
25:BB:81:G:C5	25:BB:82:G:N7	2.80	0.49
27:BD:105:ILE:CD1	27:BD:106:ILE:N	2.70	0.49
27:BD:117:VAL:CG2	27:BD:126:GLN:NE2	2.68	0.49
27:BD:172:TYR:CE2	27:BD:186:HIS:CD2	3.00	0.49
27:BD:91:ARG:NH2	27:BD:198:ASN:ND2	2.61	0.49
28:BE:154:LYS:HD2	28:BE:154:LYS:O	2.12	0.49
28:BE:37:ARG:O	28:BE:39:PRO:CD	2.60	0.49
28:BE:55:ASN:O	28:BE:57:LYS:N	2.46	0.49
24:BA:2787:C:C2	28:BE:61:ARG:CZ	2.96	0.49
28:BE:49:LEU:CD2	28:BE:75:VAL:C	2.79	0.49
30:BG:114:ILE:HG12	30:BG:140:ILE:HD11	1.93	0.49
31:BH:118:PRO:CG	31:BH:144:VAL:HG21	2.37	0.49
31:BH:152:ARG:CG	31:BH:152:ARG:HH21	2.26	0.49
31:BH:43:VAL:CG1	31:BH:51:ARG:O	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2748:A:C4	31:BH:67:LEU:HD21	2.41	0.49
31:BH:76:VAL:O	31:BH:78:GLY:N	2.46	0.49
32:BK:43:ASN:O	32:BK:46:ALA:HB3	2.12	0.49
33:BL:11:GLN:O	33:BL:12:LEU:HD23	2.12	0.49
33:BL:18:THR:CG2	33:BL:38:VAL:HG21	2.42	0.49
34:BM:107:LEU:C	34:BM:107:LEU:CD2	2.71	0.49
34:BM:122:VAL:C	34:BM:123:TYR:CG	2.85	0.49
34:BM:23:LEU:HB2	34:BM:63:THR:HG23	1.94	0.49
35:BN:19:ILE:O	35:BN:19:ILE:CD1	2.53	0.49
24:BA:1665:A:C4'	35:BN:66:LYS:HB2	2.43	0.49
35:BN:71:ARG:N	35:BN:72:PRO:HD2	2.27	0.49
37:BP:46:GLN:NE2	37:BP:126:PRO:HG3	2.27	0.49
37:BP:51:ARG:HD3	37:BP:52:VAL:CA	2.42	0.49
38:BQ:102:GLU:HG3	38:BQ:103:ARG:N	2.26	0.49
38:BQ:14:SER:CA	38:BQ:17:ARG:HG2	2.42	0.49
38:BQ:97:VAL:O	38:BQ:98:LEU:CD2	2.60	0.49
40:BS:9:LEU:O	40:BS:10:VAL:C	2.51	0.49
41:BT:112:ARG:HH22	42:BU:49:THR:CG2	2.22	0.49
24:BA:532:A:N7	41:BT:45:TYR:CE2	2.80	0.49
42:BU:79:VAL:CG1	42:BU:81:TYR:CD1	2.95	0.49
43:BV:59:VAL:HG21	43:BV:66:GLU:HG3	1.94	0.49
45:BX:17:SER:OG	45:BX:19:LYS:HE3	2.11	0.49
46:BY:145:GLU:O	46:BY:147:GLY:N	2.45	0.49
46:BY:48:PHE:CB	46:BY:54:HIS:CE1	2.91	0.49
24:BA:2124:G:H2'	26:BC:217:THR:OG1	2.12	0.49
24:BA:2146:C:C6	24:BA:2146:C:O5'	2.66	0.49
24:BA:2168:G:N3	24:BA:2170:A:H8	2.10	0.49
3:AB:71:G:N2	3:AB:72:C:C1'	2.68	0.49
1:AA:1171:G:C2'	1:AA:1172:C:C6	2.95	0.49
3:AD:41:C:H2'	3:AD:42:C:O4'	2.12	0.49
3:AD:44:G:H2'	3:AD:45:U:H5'	1.94	0.49
1:AA:511:C:O2'	1:AA:512:U:P	2.70	0.49
1:AA:1298:C:C2	9:AJ:114:ARG:NH1	2.80	0.49
1:AA:1319:A:OP1	21:AV:5:LEU:HD11	2.12	0.49
1:AA:1306:A:C2	1:AA:1332:A:C8	3.00	0.49
1:AA:1348:U:OP2	11:AL:109:VAL:HA	2.13	0.49
1:AA:136:C:H2'	1:AA:137:C:H6	1.77	0.49
1:AA:1400:C:C6	1:AA:1400:C:OP1	2.66	0.49
1:AA:1415:G:H2'	1:AA:1416:G:O5'	2.12	0.49
1:AA:1431:C:H2'	1:AA:1432:G:C4'	2.42	0.49
1:AA:1451:A:H8	1:AA:1451:A:OP1	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1479:C:H2'	1:AA:1480:G:O4'	2.12	0.49
1:AA:1480:G:C2'	1:AA:1481:U:O5'	2.60	0.49
1:AA:15:G:C2	1:AA:16:A:C5	3.01	0.49
1:AA:735:C:H4'	20:AU:75:ILE:HD11	1.95	0.49
1:AA:745:C:H2'	1:AA:746:A:H8	1.76	0.49
1:AA:874:G:C2	1:AA:875:C:C6	3.00	0.49
1:AA:924:C:H2'	1:AA:925:G:C8	2.47	0.49
1:AA:937:A:H1'	1:AA:1379:G:H22	1.77	0.49
1:AA:975:A:O2'	1:AA:1358:U:C1'	2.54	0.49
3:AB:13:C:O2'	3:AB:14:A:H4'	2.12	0.49
3:AC:58:A:H2'	3:AC:61:C:C5	2.46	0.49
3:AD:34:G:OP1	3:AD:35:A:C8	2.64	0.49
4:AE:153:ARG:NH2	4:AE:154:LEU:O	2.45	0.49
4:AE:71:VAL:O	4:AE:165:VAL:HG22	2.12	0.49
4:AE:43:ASP:OD1	4:AE:44:LEU:N	2.45	0.49
5:AF:12:LEU:HD12	5:AF:18:TRP:CH2	2.46	0.49
5:AF:142:MET:CA	5:AF:146:ALA:HB3	2.43	0.49
5:AF:15:THR:HG21	5:AF:181:ASN:N	2.26	0.49
6:AG:128:VAL:CG1	6:AG:129:ASN:N	2.75	0.49
6:AG:12:CYS:SG	6:AG:19:LEU:O	2.70	0.49
6:AG:165:MET:O	6:AG:166:LYS:C	2.50	0.49
1:AA:9:G:C8	7:AH:126:ARG:CZ	2.95	0.49
7:AH:145:LYS:O	7:AH:148:VAL:CB	2.50	0.49
7:AH:26:PHE:HD1	7:AH:26:PHE:N	2.08	0.49
7:AH:91:LEU:HD12	7:AH:118:ILE:HG23	1.94	0.49
8:AI:7:ASN:O	8:AI:89:MET:O	2.30	0.49
10:AK:6:ILE:HG21	10:AK:85:ARG:HH22	1.76	0.49
10:AK:98:LYS:NZ	10:AK:98:LYS:H	1.90	0.49
11:AL:15:ALA:HB3	11:AL:76:ALA:C	2.32	0.49
11:AL:23:ASN:HD22	11:AL:24:GLY:N	2.09	0.49
14:AO:117:ARG:O	14:AO:121:GLY:HA2	2.12	0.49
18:AS:56:ALA:HB1	18:AS:79:VAL:HG11	1.92	0.49
19:AT:33:GLY:O	19:AT:34:LYS:C	2.50	0.49
19:AT:21:VAL:O	19:AT:42:TYR:O	2.29	0.49
20:AU:62:GLU:C	20:AU:66:LEU:HG	2.31	0.49
21:AV:51:VAL:HB	21:AV:58:VAL:HG22	1.94	0.49
22:AW:65:LYS:O	22:AW:68:LYS:HG2	2.12	0.49
48:B1:12:SER:H	48:B1:15:GLU:CD	2.15	0.49
51:B4:41:PRO:O	51:B4:42:PRO:C	2.49	0.49
52:B5:30:THR:CB	52:B5:31:PRO:HD3	2.42	0.49
24:BA:1009:A:N3	24:BA:1153:C:O2'	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:10:G:C2	24:BA:2629:A:N3	2.80	0.49
24:BA:1125:G:H5''	55:B8:4:ARG:HD2	1.94	0.49
24:BA:1128:A:C5	24:BA:2518:A:N6	2.80	0.49
24:BA:1197:G:N7	24:BA:1198:U:C5	2.80	0.49
24:BA:331:A:C6	24:BA:1209:G:C4	3.00	0.49
24:BA:1210:A:C1'	24:BA:1212:G:H21	2.25	0.49
24:BA:134:C:O5'	24:BA:134:C:H6	1.94	0.49
24:BA:1357:U:O4	24:BA:1358:G:C2	2.65	0.49
24:BA:188:G:O4'	24:BA:1365:A:C2	2.66	0.49
24:BA:1372:U:O2'	24:BA:1373:A:H5'	2.11	0.49
24:BA:1395:A:OP1	24:BA:1602:U:O2'	2.29	0.49
24:BA:1455:G:O2'	24:BA:1456:G:H5'	2.12	0.49
24:BA:1651:G:N2	24:BA:1652:A:C2	2.80	0.49
24:BA:1689:A:C2	24:BA:1690:A:N7	2.79	0.49
24:BA:1690:A:N3	24:BA:1691:C:O4'	2.45	0.49
24:BA:155:C:C4	24:BA:171:G:N1	2.80	0.49
24:BA:1748:G:H2'	24:BA:1749:A:H8	1.73	0.49
24:BA:1772:G:C2	24:BA:1773:A:O2'	2.65	0.49
24:BA:1827:C:O2	24:BA:1828:G:H1'	2.12	0.49
24:BA:414:C:O2	24:BA:1864:U:H4'	2.11	0.49
24:BA:2021:C:H41	41:BT:28:ARG:HH22	1.60	0.49
24:BA:2022:U:O2	24:BA:2022:U:C2'	2.54	0.49
24:BA:2047:U:C2'	24:BA:2048:G:O5'	2.60	0.49
24:BA:2072:G:H2'	24:BA:2073:C:C5	2.46	0.49
24:BA:2076:U:H2'	24:BA:2076:U:O2	2.12	0.49
24:BA:2265:U:C2'	24:BA:2266:A:OP1	2.60	0.49
24:BA:2305:A:H62	24:BA:2306:C:H5	1.60	0.49
24:BA:2325:G:O2'	24:BA:2326:C:H5'	2.11	0.49
24:BA:2452:C:H2'	24:BA:2453:A:O4'	2.12	0.49
24:BA:2466:C:P	55:B8:5:ALA:HB3	2.52	0.49
24:BA:2458:G:C6	24:BA:2490:G:C2	2.99	0.49
24:BA:2589:A:C2'	24:BA:2590:A:H5'	2.41	0.49
24:BA:2657:A:N1	24:BA:2665:A:H1'	2.26	0.49
24:BA:2756:U:C2	24:BA:2758:A:C6	2.98	0.49
24:BA:2849:U:H2'	24:BA:2850:A:OP2	2.11	0.49
24:BA:319:C:N4	24:BA:320:A:N6	2.60	0.49
24:BA:455:C:C5'	24:BA:456:C:OP1	2.60	0.49
24:BA:470:A:N6	24:BA:471:A:C2	2.80	0.49
24:BA:503:A:H2	24:BA:506:G:C2	2.30	0.49
24:BA:552:G:C6	24:BA:553:U:C4	3.00	0.49
24:BA:60:G:O2'	24:BA:61:G:P	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:711:G:C6	24:BA:712:G:N7	2.80	0.49
24:BA:70:G:H4'	24:BA:71:A:O5'	2.10	0.49
24:BA:904:C:H2'	24:BA:905:U:H6	1.77	0.49
24:BA:963:U:O2	24:BA:963:U:H2'	2.11	0.49
25:BB:109:G:N1	25:BB:110:G:C6	2.80	0.49
25:BB:16:G:O2'	25:BB:17:C:C5'	2.60	0.49
25:BB:75:G:H21	46:BY:27:VAL:HG21	1.76	0.49
27:BD:122:ASP:N	27:BD:135:PHE:HE2	2.08	0.49
27:BD:136:ILE:HD12	27:BD:168:ARG:CZ	2.42	0.49
27:BD:141:VAL:HG12	27:BD:194:GLY:O	2.12	0.49
27:BD:91:ARG:NH1	27:BD:198:ASN:HD22	2.11	0.49
27:BD:181:GLU:OE1	27:BD:271:ILE:O	2.30	0.49
24:BA:691:C:C2'	27:BD:45:ASN:HD21	2.25	0.49
27:BD:61:LEU:O	27:BD:62:TYR:CB	2.60	0.49
24:BA:1655:A:H5''	28:BE:114:ALA:CA	2.42	0.49
29:BF:101:LEU:O	29:BF:106:ARG:CZ	2.60	0.49
29:BF:178:PRO:O	29:BF:180:GLY:N	2.41	0.49
30:BG:151:ALA:C	30:BG:152:LEU:CG	2.80	0.49
30:BG:18:GLU:C	30:BG:18:GLU:OE1	2.50	0.49
30:BG:26:GLN:NE2	30:BG:31:VAL:HG22	2.23	0.49
31:BH:11:VAL:HG22	31:BH:76:VAL:HG11	1.94	0.49
31:BH:33:LEU:HD22	31:BH:75:ALA:HB2	1.94	0.49
31:BH:8:PRO:O	31:BH:9:ILE:HG13	2.11	0.49
32:BK:21:VAL:HB	32:BK:26:ALA:CA	2.39	0.49
33:BL:33:ASN:O	33:BL:37:PHE:HB2	2.12	0.49
34:BM:22:THR:HG21	34:BM:61:ARG:HH12	1.78	0.49
34:BM:23:LEU:HD12	34:BM:63:THR:N	2.21	0.49
34:BM:74:ARG:NE	34:BM:82:LEU:CD1	2.76	0.49
35:BN:89:ASN:HD21	35:BN:91:LEU:HB2	1.74	0.49
36:BO:114:ILE:O	36:BO:116:GLY:N	2.41	0.49
37:BP:59:ARG:NH2	37:BP:62:GLY:H	2.10	0.49
39:BR:106:ARG:NH1	39:BR:106:ARG:O	2.44	0.49
40:BS:30:VAL:HG23	40:BS:31:SER:H	1.77	0.49
40:BS:31:SER:C	40:BS:32:TYR:CG	2.81	0.49
40:BS:59:THR:N	40:BS:61:PHE:CE2	2.80	0.49
40:BS:76:PHE:CZ	40:BS:78:LEU:CG	2.94	0.49
41:BT:37:GLU:O	41:BT:40:PHE:N	2.45	0.49
41:BT:76:TYR:O	41:BT:77:SER:C	2.50	0.49
41:BT:96:ALA:O	41:BT:100:VAL:HG23	2.12	0.49
41:BT:88:ILE:CG1	42:BU:52:VAL:HG22	2.41	0.49
42:BU:78:LYS:HB2	42:BU:78:LYS:HZ3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:22:ASP:HA	43:BV:75:TYR:OH	2.11	0.49
44:BW:73:ARG:HH22	44:BW:74:PRO:C	2.16	0.49
45:BX:39:VAL:O	45:BX:39:VAL:HG12	2.13	0.49
45:BX:67:LEU:CD1	45:BX:71:LYS:NZ	2.75	0.49
46:BY:1:MET:HE3	46:BY:3:TYR:HD2	1.78	0.49
46:BY:10:ARG:CB	46:BY:36:LYS:HD2	2.25	0.49
46:BY:79:ARG:O	46:BY:80:ARG:HG3	2.12	0.49
32:BK:111:PRO:HG2	32:BK:112:LYS:CD	2.37	0.49
32:BK:91:SER:HB2	32:BK:119:PRO:CB	2.42	0.49
26:BC:108:MET:CE	26:BC:131:LEU:HD23	2.42	0.49
26:BC:131:LEU:CD1	26:BC:137:LEU:HA	2.42	0.49
24:BA:1485:G:H2'	24:BA:1486:A:H8	1.74	0.49
24:BA:1503:U:H2'	24:BA:1504:C:H6	1.70	0.49
24:BA:182:A:O2'	24:BA:183:C:O4'	2.29	0.49
24:BA:363(A):A:C2'	24:BA:363(B):G:O5'	2.60	0.49
24:BA:1563:G:C4	24:BA:1564:C:C5	3.00	0.49
1:AA:1002:G:N7	1:AA:1004:A:N1	2.60	0.49
1:AA:108:G:O6	22:AW:15:ARG:HD2	2.12	0.49
1:AA:1251:A:C2	1:AA:1252:A:C6	3.01	0.49
1:AA:1287:A:H2'	1:AA:1288:A:N7	2.28	0.49
1:AA:1307:U:N3	1:AA:1308:U:C5	2.80	0.49
1:AA:1399:C:O2	1:AA:1401:G:C5	2.66	0.49
1:AA:1428:A:C4	1:AA:1429:C:C5	3.01	0.49
1:AA:1440:C:C2	1:AA:1441:G:C8	3.00	0.49
1:AA:1499:A:H8	1:AA:1499:A:O5'	1.96	0.49
1:AA:176:C:O2'	1:AA:177:C:H5'	2.13	0.49
1:AA:186(A):C:N4	1:AA:191:G:C6	2.80	0.49
1:AA:208:U:O3'	1:AA:209:U:H6	1.95	0.49
1:AA:226:G:O2'	1:AA:227:G:C5'	2.59	0.49
1:AA:236:G:C2'	1:AA:237:C:C6	2.95	0.49
1:AA:325:A:H2'	1:AA:326:G:O5'	2.13	0.49
1:AA:327:A:C2	1:AA:329:A:N3	2.80	0.49
1:AA:407:G:C1'	6:AG:119:GLN:OE1	2.60	0.49
1:AA:413:G:C2'	1:AA:414:A:OP2	2.60	0.49
1:AA:501:C:O2'	1:AA:549:C:O2	2.26	0.49
1:AA:584:G:H2'	1:AA:585:G:O5'	2.13	0.49
1:AA:5:U:N3	6:AG:86:LYS:HB3	2.27	0.49
1:AA:610:G:H2'	1:AA:611:A:H5'	1.92	0.49
1:AA:67:C:O2	1:AA:171:A:C2	2.64	0.49
1:AA:711:G:O2'	1:AA:712:A:C5'	2.61	0.49
1:AA:870:U:C5'	1:AA:871:U:OP1	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:956:U:O2'	1:AA:957:U:H5'	2.13	0.49
1:AA:1229:A:O2'	3:AC:30:G:OP1	2.31	0.49
3:AC:19:G:N2	3:AC:57:G:C4	2.80	0.49
4:AE:187:LEU:HA	4:AE:201:ILE:HB	1.93	0.49
4:AE:76:GLN:O	4:AE:211:ILE:CD1	2.61	0.49
4:AE:88:ALA:HA	4:AE:222:ILE:HD11	1.93	0.49
5:AF:138:VAL:O	5:AF:139:GLN:C	2.50	0.49
6:AG:121:VAL:O	6:AG:134:ASP:CB	2.61	0.49
6:AG:155:LEU:CB	6:AG:158:ILE:HG12	2.33	0.49
6:AG:199:ASN:CG	6:AG:200:GLU:N	2.64	0.49
6:AG:32:ALA:C	6:AG:34:GLU:N	2.63	0.49
6:AG:87:GLY:O	6:AG:88:VAL:C	2.51	0.49
7:AH:54:ALA:O	7:AH:57:LYS:HB3	2.13	0.49
8:AI:41:GLU:O	8:AI:42:GLU:CB	2.60	0.49
9:AJ:49:ILE:HG12	9:AJ:121:ALA:HB2	1.94	0.49
9:AJ:46:ALA:O	9:AJ:49:ILE:N	2.46	0.49
10:AK:36:LEU:C	10:AK:39:LEU:HB2	2.33	0.49
7:AH:152:ARG:NH2	10:AK:44:PHE:N	2.59	0.49
10:AK:82:HIS:CE1	10:AK:84:ARG:HG3	2.48	0.49
10:AK:85:ARG:CD	10:AK:134:ILE:O	2.59	0.49
10:AK:97:VAL:HG13	10:AK:98:LYS:HZ2	1.75	0.49
11:AL:11:LYS:O	11:AL:11:LYS:CG	2.59	0.49
11:AL:69:GLY:O	11:AL:73:GLN:HG3	2.12	0.49
12:AM:16:LEU:HD22	12:AM:16:LEU:N	2.27	0.49
12:AM:24:VAL:HG13	12:AM:34:VAL:HG11	1.95	0.49
12:AM:56:HIS:O	12:AM:58:ASP:N	2.42	0.49
14:AO:25:PRO:HD2	14:AO:98:TYR:OH	2.12	0.49
15:AP:16:ASP:HB3	15:AP:34:LEU:HD11	1.93	0.49
17:AR:59:MET:O	17:AR:62:GLN:HB3	2.13	0.49
17:AR:79:ARG:HA	17:AR:82:ILE:HD12	1.94	0.49
21:AV:22:LEU:C	21:AV:24:ALA:N	2.64	0.49
21:AV:40:ILE:O	21:AV:68:GLY:CA	2.59	0.49
48:B1:12:SER:N	48:B1:15:GLU:OE1	2.45	0.49
49:B2:22:ALA:HB1	49:B2:46:ASN:CG	2.32	0.49
49:B2:4:LEU:HD23	49:B2:5:LYS:O	2.12	0.49
52:B5:28:ARG:O	52:B5:32:ASN:HA	2.13	0.49
53:B6:33:ARG:CG	53:B6:37:LYS:HD3	2.33	0.49
24:BA:1047:G:H2'	24:BA:1110:G:H1	1.72	0.49
24:BA:1052:C:O2'	24:BA:1053:C:C5'	2.59	0.49
24:BA:116:C:H4'	24:BA:127:A:C4'	2.41	0.49
24:BA:1175:U:H3'	24:BA:1176:G:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1200:C:C2	24:BA:1246:A:C2	3.01	0.49
24:BA:1210:A:C1'	24:BA:1212:G:N2	2.75	0.49
24:BA:1338:G:O2'	44:BW:16:LYS:NZ	2.39	0.49
24:BA:1427:A:O2'	24:BA:1428:C:P	2.70	0.49
24:BA:1615:C:C5	24:BA:1617:C:C2	3.00	0.49
24:BA:1682:G:H5'	24:BA:1762:A:O2'	2.13	0.49
24:BA:1752:C:C5'	24:BA:2862:G:OP1	2.61	0.49
24:BA:1861:G:H4'	26:BC:205:LYS:HZ2	1.76	0.49
24:BA:1936:A:C8	24:BA:1945:G:O6	2.66	0.49
24:BA:193:U:O4	24:BA:202:U:O2	2.30	0.49
24:BA:1982:C:H2'	24:BA:1983:C:C6	2.47	0.49
24:BA:2024:G:C5	24:BA:2025:C:C5	3.00	0.49
24:BA:2051:A:O2'	24:BA:2052:G:P	2.71	0.49
24:BA:793:A:OP2	24:BA:2072:G:H5'	2.13	0.49
24:BA:215:G:H4'	24:BA:216:A:C5'	2.41	0.49
24:BA:2209:C:HO2'	24:BA:2210:G:H3'	1.76	0.49
24:BA:2297:C:C4	24:BA:2333:A:N6	2.76	0.49
24:BA:2297:C:N3	24:BA:2333:A:N6	2.60	0.49
24:BA:2298:A:H2'	24:BA:2299:G:C8	2.47	0.49
24:BA:2282:G:O2'	24:BA:2390:U:O4	2.21	0.49
24:BA:411:G:H5'	24:BA:2407:G:OP2	2.12	0.49
24:BA:2558:C:C2'	24:BA:2559:C:O5'	2.61	0.49
24:BA:2560:C:H2'	24:BA:2561:A:H5'	1.95	0.49
24:BA:2617:C:C2	24:BA:2618:G:H8	2.30	0.49
24:BA:2620:C:C2'	24:BA:2621:A:O5'	2.60	0.49
24:BA:2651:C:C2	24:BA:2652:C:C5	3.01	0.49
24:BA:2674:G:H4'	35:BN:26:LYS:HZ3	1.77	0.49
24:BA:2681:C:C5	24:BA:2727:G:N2	2.81	0.49
24:BA:2709:G:C2'	24:BA:2710:C:C5'	2.89	0.49
24:BA:2716:U:H2'	24:BA:2717:G:H8	1.77	0.49
24:BA:2812:G:C2	24:BA:2813:A:C5	3.01	0.49
24:BA:292:C:O5'	24:BA:293:U:O4	2.31	0.49
24:BA:296:C:C2'	24:BA:297:C:O4'	2.60	0.49
24:BA:370:G:O2'	24:BA:371:A:O4'	2.25	0.49
24:BA:385:C:O2'	24:BA:386:G:C5'	2.60	0.49
24:BA:410:G:H3'	24:BA:411:G:C8	2.47	0.49
24:BA:467:G:C2'	24:BA:468:G:H5'	2.43	0.49
24:BA:50:U:H3'	24:BA:50:U:C6	2.46	0.49
24:BA:547:A:N6	24:BA:548:A:N1	2.60	0.49
24:BA:635:C:H2'	24:BA:636:G:O4'	2.12	0.49
24:BA:71:A:C2	24:BA:73:A:N1	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:728:G:C1'	24:BA:729:G:H8	2.25	0.49
24:BA:730:C:OP2	24:BA:763:G:OP1	2.29	0.49
24:BA:851:U:O4'	49:B2:46:ASN:ND2	2.29	0.49
24:BA:874:G:N1	24:BA:875:G:C5	2.80	0.49
24:BA:985:C:H2'	24:BA:986:C:C5	2.48	0.49
25:BB:6:C:H5'	25:BB:27:C:H2'	1.95	0.49
25:BB:83:G:H5'	49:B2:52:HIS:NE2	2.27	0.49
27:BD:231:HIS:O	27:BD:233:HIS:N	2.44	0.49
27:BD:246:PRO:HD2	27:BD:250:TRP:CA	2.42	0.49
27:BD:181:GLU:CD	27:BD:271:ILE:O	2.50	0.49
28:BE:142:GLY:C	28:BE:143:ASN:CG	2.71	0.49
28:BE:14:ILE:O	28:BE:14:ILE:HD12	2.12	0.49
28:BE:31:CYS:O	28:BE:33:VAL:N	2.44	0.49
28:BE:44:TYR:C	28:BE:45:THR:CG2	2.79	0.49
28:BE:91:VAL:HG13	28:BE:93:VAL:HG22	1.90	0.49
29:BF:107:LYS:O	29:BF:108:LYS:C	2.51	0.49
29:BF:118:ALA:CB	29:BF:122:LYS:HB2	2.42	0.49
29:BF:132:VAL:HG22	29:BF:135:LYS:CB	2.42	0.49
24:BA:2059:A:O3'	29:BF:69:HIS:O	2.30	0.49
29:BF:74:ARG:HH12	29:BF:76:GLY:H	1.55	0.49
30:BG:8:LYS:NZ	30:BG:176:LEU:HD11	2.23	0.49
30:BG:86:MET:N	30:BG:87:PRO:CD	2.72	0.49
31:BH:136:ILE:HG23	31:BH:140:LYS:HE2	1.94	0.49
31:BH:54:ARG:NH1	31:BH:57:ASP:HA	2.27	0.49
33:BL:12:LEU:CD1	33:BL:23:VAL:HG21	2.43	0.49
34:BM:10:GLU:HB3	34:BM:39:ARG:HH12	1.76	0.49
34:BM:17:ASP:OD1	34:BM:19:GLU:O	2.31	0.49
34:BM:23:LEU:HD21	34:BM:62:VAL:HA	1.93	0.49
34:BM:91:LEU:HA	34:BM:95:PRO:CA	2.43	0.49
35:BN:85:VAL:CG1	35:BN:86:ILE:N	2.73	0.49
36:BO:50:ARG:NH2	54:B7:6:THR:OG1	2.45	0.49
36:BO:58:THR:HG23	54:B7:13:ARG:H	1.76	0.49
36:BO:6:LEU:C	36:BO:7:ARG:HG3	2.32	0.49
36:BO:86:LYS:HZ1	36:BO:99:LEU:HD11	1.77	0.49
38:BQ:96:ARG:O	38:BQ:114:VAL:HA	2.13	0.49
38:BQ:13:HIS:HB3	38:BQ:16:HIS:HD2	1.66	0.49
38:BQ:65:LEU:O	38:BQ:66:VAL:C	2.46	0.49
38:BQ:26:LYS:CE	38:BQ:70:LEU:HA	2.41	0.49
39:BR:12:PHE:C	39:BR:12:PHE:CD1	2.85	0.49
39:BR:92:TYR:CE2	39:BR:93:LYS:HB3	2.48	0.49
40:BS:109:GLU:O	40:BS:110:ILE:CB	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:112:ARG:O	40:BS:113:LYS:C	2.50	0.49
40:BS:55:ASN:O	40:BS:57:PHE:CE2	2.66	0.49
41:BT:27:LEU:C	41:BT:29:SER:N	2.62	0.49
42:BU:20:LEU:HD22	42:BU:68:LYS:HZ1	1.77	0.49
42:BU:14:VAL:CG2	42:BU:21:ARG:HH22	2.23	0.49
42:BU:6:LYS:HZ3	42:BU:10:LYS:CB	2.20	0.49
42:BU:78:LYS:HB2	42:BU:84:LYS:CB	2.42	0.49
45:BX:53:PRO:C	45:BX:55:TYR:N	2.63	0.49
46:BY:25:PRO:HG2	46:BY:84:GLU:O	2.12	0.49
46:BY:56:VAL:HG11	46:BY:135:GLU:OE2	2.12	0.49
25:BB:76:G:C5'	46:BY:85:HIS:ND1	2.74	0.49
3:AD:17:C:C5	3:AD:19:G:H8	2.30	0.49
3:AD:63:G:C2	3:AD:64:A:C4	3.00	0.49
26:BC:19:ILE:O	26:BC:19:ILE:HG22	2.12	0.49
26:BC:19:ILE:CG2	26:BC:223:ARG:HG2	2.40	0.49
26:BC:59:ARG:NH1	26:BC:164:ARG:CG	2.75	0.49
24:BA:1489:U:O2'	24:BA:1490:A:P	2.70	0.49
1:AA:341:C:C2'	1:AA:342:C:O5'	2.61	0.49
1:AA:1009:G:N2	1:AA:1010:G:H1'	2.27	0.49
2:A1:40:U:H2'	2:A1:41:U:H6	1.77	0.49
1:AA:60:A:H62	1:AA:110:C:N4	2.10	0.49
1:AA:1227:A:OP2	15:AP:111:LYS:HE3	2.13	0.49
1:AA:123:C:O2'	1:AA:290:C:H1'	2.13	0.49
1:AA:1253:G:C2	1:AA:1285:A:N6	2.75	0.49
1:AA:1268:A:H1'	1:AA:1326:C:O2'	2.12	0.49
1:AA:1305:G:O4'	1:AA:1305:G:P	2.71	0.49
1:AA:1251:A:H2	1:AA:1354:C:H1'	1.76	0.49
1:AA:138:G:N2	1:AA:226:G:C1'	2.74	0.49
1:AA:49:U:C4	1:AA:361:G:C2	3.00	0.49
1:AA:518:C:H3'	1:AA:530:G:H21	1.76	0.49
1:AA:521:G:C5	1:AA:529:G:N2	2.81	0.49
1:AA:565:U:N3	1:AA:566:G:O6	2.46	0.49
1:AA:607:A:C2'	1:AA:608:A:H5'	2.42	0.49
1:AA:723:U:O2	1:AA:723:U:H2'	2.12	0.49
1:AA:797:C:C2'	1:AA:798:G:H5'	2.41	0.49
1:AA:821:G:H2'	1:AA:822:C:C6	2.42	0.49
1:AA:852:G:C6	1:AA:853:G:N7	2.81	0.49
1:AA:85:U:C2'	1:AA:86:U:H5'	2.43	0.49
1:AA:978:A:O4'	1:AA:1322:C:O2	2.30	0.49
3:AB:37:A:N6	3:AB:38:A:C2	2.81	0.49
4:AE:212:GLN:HB3	4:AE:235:SER:HG	1.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:35:GLU:HG2	4:AE:39:ILE:C	2.33	0.49
4:AE:57:PHE:CD2	4:AE:57:PHE:C	2.86	0.49
5:AF:11:ARG:NH2	5:AF:178:LEU:HA	2.27	0.49
5:AF:188:LEU:HD13	5:AF:189:ALA:N	2.28	0.49
5:AF:77:ILE:CG2	5:AF:81:GLY:HA2	2.42	0.49
6:AG:104:VAL:HG23	6:AG:105:VAL:N	2.27	0.49
6:AG:146:ILE:N	6:AG:146:ILE:CD1	2.69	0.49
6:AG:191:ARG:HD3	6:AG:192:GLU:CA	2.42	0.49
6:AG:59:ARG:CB	6:AG:63:LYS:HZ2	2.26	0.49
7:AH:45:PHE:CD1	7:AH:47:LYS:HD2	2.47	0.49
8:AI:49:ALA:HB3	20:AU:79:LEU:N	2.28	0.49
8:AI:76:ALA:C	8:AI:80:ARG:CZ	2.81	0.49
9:AJ:149:ARG:HB3	13:AN:59:TYR:CE2	2.47	0.49
9:AJ:6:ARG:HH11	9:AJ:6:ARG:HA	1.77	0.49
10:AK:14:ARG:CA	10:AK:17:THR:OG1	2.54	0.49
10:AK:40:ALA:HB2	10:AK:45:ILE:CD1	2.41	0.49
12:AM:31:GLY:N	12:AM:81:THR:OG1	2.46	0.49
12:AM:4:ILE:HD13	12:AM:98:ILE:HG23	1.94	0.49
13:AN:66:LEU:HB2	13:AN:70:LYS:HZ2	1.76	0.49
13:AN:62:GLN:HA	13:AN:97:ALA:HB2	1.94	0.49
13:AN:95:ILE:CG2	13:AN:98:LEU:HD12	2.41	0.49
14:AO:42:THR:CA	14:AO:55:VAL:HG23	2.42	0.49
14:AO:25:PRO:CD	14:AO:98:TYR:OH	2.61	0.49
15:AP:66:LEU:HA	15:AP:70:LEU:CD1	2.33	0.49
18:AS:26:ARG:HB3	18:AS:30:GLY:HA3	1.95	0.49
19:AT:44:ALA:HB2	19:AT:59:ILE:HD13	1.95	0.49
20:AU:25:THR:HG22	20:AU:42:ARG:NE	2.28	0.49
20:AU:38:GLU:HG2	20:AU:39:VAL:H	1.77	0.49
20:AU:22:VAL:HG13	20:AU:55:ARG:HH12	1.77	0.49
22:AW:16:HIS:O	22:AW:19:SER:N	2.46	0.49
22:AW:51:GLU:HA	22:AW:54:LYS:HG3	1.94	0.49
22:AW:40:ALA:CA	22:AW:55:ILE:HG21	2.42	0.49
23:AX:12:LYS:HB3	23:AX:17:THR:O	2.12	0.49
48:B1:28:MET:HA	48:B1:31:ARG:CG	2.37	0.49
49:B2:12:PRO:HA	49:B2:15:TYR:CZ	2.46	0.49
49:B2:26:LEU:N	49:B2:26:LEU:HD13	2.26	0.49
49:B2:38:GLU:HG2	49:B2:38:GLU:O	2.11	0.49
50:B3:39:CYS:C	50:B3:40:HIS:CG	2.85	0.49
50:B3:56:VAL:C	50:B3:61:ARG:NH2	2.65	0.49
53:B6:20:ALA:HB3	53:B6:21:ARG:HH21	1.76	0.49
24:BA:1008:C:HO2'	24:BA:1009:A:P	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1008:C:O2'	24:BA:1009:A:P	2.71	0.49
24:BA:1024:G:C6	24:BA:1025:G:H8	2.26	0.49
24:BA:1139:G:C2'	24:BA:1140:C:H5''	2.39	0.49
24:BA:1154:G:O2'	24:BA:1155:A:C5'	2.61	0.49
24:BA:1272:A:C2	24:BA:1618:A:C2	3.01	0.49
24:BA:1472:A:C2'	24:BA:1473:G:O5'	2.61	0.49
24:BA:1530:G:H2'	24:BA:1531:C:C2	2.47	0.49
24:BA:1559:G:C8	24:BA:1559:G:H5''	2.47	0.49
24:BA:1613:G:N2	24:BA:1619:G:N9	2.60	0.49
24:BA:1657:C:OP1	28:BE:136:ARG:O	2.30	0.49
24:BA:1777:U:C2'	24:BA:1778:U:H5'	2.42	0.49
24:BA:1845:G:C6	24:BA:1896:G:C6	3.00	0.49
24:BA:1897:G:C6	24:BA:1898:U:C2	3.01	0.49
24:BA:1899:G:C3'	24:BA:1899:G:C8	2.95	0.49
24:BA:1924:C:H2'	24:BA:1925:C:C6	2.46	0.49
24:BA:1942:C:C5	24:BA:1943:U:C4	3.00	0.49
24:BA:1991:U:H3'	24:BA:1991:U:C6	2.47	0.49
24:BA:1999:C:H4'	24:BA:2723:C:O2	2.12	0.49
24:BA:2014:A:N3	24:BA:2015:A:C2	2.81	0.49
24:BA:2041:U:OP2	24:BA:2041:U:C6	2.66	0.49
24:BA:2452:C:O2'	24:BA:2453:A:H5'	2.13	0.49
24:BA:2520:C:H2'	24:BA:2521:C:C6	2.48	0.49
24:BA:2526:G:C2'	24:BA:2527:C:O5'	2.61	0.49
24:BA:2606:C:C6	24:BA:2606:C:H5'	2.38	0.49
24:BA:2652:C:C4	24:BA:2653:U:C4	3.00	0.49
24:BA:2694:G:C6	24:BA:2695:C:N4	2.80	0.49
24:BA:2701:C:H5'	24:BA:2701:C:H6	1.78	0.49
24:BA:2705:A:H2'	24:BA:2706:G:O5'	2.13	0.49
24:BA:270:A:OP2	24:BA:270(X):G:N2	2.37	0.49
24:BA:2717:G:HO2'	24:BA:2718:G:P	2.35	0.49
24:BA:2841:C:O2	24:BA:2842:G:C8	2.66	0.49
24:BA:379:G:C2	24:BA:396:G:C4	3.00	0.49
24:BA:533:G:C5	24:BA:534:U:C2	3.01	0.49
24:BA:547:A:H2'	24:BA:548:A:C8	2.47	0.49
24:BA:558:G:C2'	24:BA:559:G:C5'	2.89	0.49
24:BA:587:C:O2'	24:BA:588:U:P	2.71	0.49
24:BA:592:G:N3	24:BA:592:G:H2'	2.27	0.49
24:BA:656:G:C5	24:BA:657:U:C4	3.01	0.49
24:BA:686:G:N7	53:B6:12:ARG:HB2	2.27	0.49
24:BA:740:U:H2'	24:BA:741:G:H8	1.77	0.49
24:BA:744:G:C6	24:BA:745:G:O6	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:819:A:C8	24:BA:819:A:H5'	2.46	0.49
24:BA:849:A:N3	24:BA:850:C:C6	2.81	0.49
24:BA:881:G:C2	24:BA:897:C:C4	3.00	0.49
24:BA:964:C:H6	24:BA:964:C:O5'	1.95	0.49
27:BD:117:VAL:CG1	27:BD:128:GLY:C	2.79	0.49
27:BD:90:ALA:C	27:BD:91:ARG:NH1	2.66	0.49
24:BA:1204:A:C4	29:BF:188:ARG:HB2	2.45	0.49
24:BA:617:G:P	29:BF:40:GLN:OE1	2.71	0.49
29:BF:39:TRP:O	29:BF:42:ALA:HB3	2.12	0.49
29:BF:41:LEU:O	29:BF:44:ARG:NH2	2.45	0.49
30:BG:39:ILE:HG13	30:BG:157:ILE:HD11	1.92	0.49
31:BH:137:ASP:OD2	31:BH:140:LYS:HB3	2.13	0.49
31:BH:163:TYR:CB	31:BH:166:GLY:HA2	2.40	0.49
31:BH:54:ARG:C	31:BH:56:SER:H	2.15	0.49
32:BK:33:ARG:HB2	32:BK:35:LEU:HD23	1.95	0.49
33:BL:52:ILE:HG13	33:BL:80:LYS:HZ2	1.77	0.49
33:BL:78:ILE:HG22	33:BL:136:VAL:HG11	1.94	0.49
34:BM:122:VAL:O	34:BM:123:TYR:CD1	2.65	0.49
34:BM:25:ARG:CA	34:BM:28:THR:HG23	2.42	0.49
34:BM:96:GLU:HG2	34:BM:97:ARG:HD3	1.94	0.49
35:BN:64:ARG:NE	35:BN:67:LYS:C	2.66	0.49
37:BP:45:GLN:C	37:BP:47:ILE:N	2.65	0.49
37:BP:56:ARG:C	37:BP:56:ARG:HD2	2.33	0.49
38:BQ:98:LEU:N	38:BQ:114:VAL:HG22	2.27	0.49
38:BQ:28:LEU:HD21	38:BQ:115:GLU:HA	1.94	0.49
38:BQ:63:ARG:NH1	38:BQ:80:PHE:CG	2.81	0.49
39:BR:57:LYS:HD2	39:BR:65:VAL:HA	1.95	0.49
39:BR:78:LEU:C	39:BR:78:LEU:CD2	2.76	0.49
40:BS:64:ARG:HH11	40:BS:64:ARG:N	2.08	0.49
45:BX:32:PRO:HB2	45:BX:34:LYS:CD	2.43	0.49
45:BX:37:VAL:HG13	45:BX:39:VAL:CG2	2.42	0.49
24:BA:336:C:H4'	45:BX:67:LEU:HD21	1.93	0.49
46:BY:48:PHE:O	46:BY:53:ILE:HG22	2.12	0.49
46:BY:60:GLU:HG3	46:BY:69:THR:HG22	1.95	0.49
26:BC:120:MET:HE1	26:BC:138:PRO:CB	2.34	0.49
26:BC:38:ASP:O	26:BC:39:GLU:O	2.29	0.49
30:BG:91:ARG:CG	30:BG:91:ARG:HH21	2.24	0.49
24:BA:1284:A:C2	24:BA:1285:G:N2	2.81	0.49
24:BA:2803:C:OP2	24:BA:2803:C:H6	1.95	0.49
1:AA:1108:G:C8	1:AA:1109:C:C5	3.01	0.49
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1274:G:H21	1:AA:1275:A:N6	2.11	0.49
1:AA:1285:A:C4'	1:AA:1286:A:C8	2.95	0.49
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.94	0.49
1:AA:1413:A:C2	1:AA:1414:U:N1	2.81	0.49
1:AA:1497:G:HO2'	1:AA:1518:A:H2	1.61	0.49
1:AA:186(B):C:H4'	22:AW:89:ARG:CZ	2.42	0.49
1:AA:309:G:H2'	1:AA:310:G:H8	1.76	0.49
1:AA:423:G:N2	1:AA:424:G:C5	2.80	0.49
1:AA:430:A:H4'	6:AG:7:PRO:HA	1.94	0.49
1:AA:430:A:P	6:AG:9:CYS:H	2.36	0.49
1:AA:51:A:C2	1:AA:116:A:H1'	2.47	0.49
1:AA:607:A:N1	18:AS:31:LYS:HG3	2.27	0.49
1:AA:707:C:H2'	1:AA:708:C:O5'	2.13	0.49
1:AA:78:G:C6	1:AA:79:G:C5	3.01	0.49
1:AA:812:C:O4'	1:AA:813:U:H5	1.95	0.49
1:AA:858:G:C8	1:AA:858:G:O5'	2.66	0.49
1:AA:859:A:C2'	1:AA:860:A:O4'	2.58	0.49
1:AA:872:A:O2'	1:AA:873:A:P	2.68	0.49
1:AA:888:G:H3'	1:AA:889:A:H8	1.78	0.49
1:AA:87:A:N7	1:AA:88:C:N3	2.60	0.49
4:AE:134:GLU:O	4:AE:138:LEU:CG	2.56	0.49
4:AE:208:ILE:HA	4:AE:211:ILE:CD1	2.42	0.49
5:AF:144:SER:O	5:AF:144:SER:OG	2.21	0.49
5:AF:71:ALA:HB2	5:AF:106:VAL:HG23	1.94	0.49
6:AG:128:VAL:HG21	6:AG:133:VAL:HG23	1.94	0.49
6:AG:127:THR:O	6:AG:146:ILE:CG2	2.58	0.49
6:AG:148:VAL:HG13	6:AG:152:SER:OG	2.13	0.49
6:AG:152:SER:O	6:AG:154:ASN:ND2	2.45	0.49
6:AG:178:VAL:O	6:AG:179:GLU:O	2.31	0.49
7:AH:43:LEU:CD2	7:AH:44:GLY:N	2.67	0.49
8:AI:57:GLN:NE2	8:AI:57:GLN:O	2.45	0.49
8:AI:78:GLU:O	8:AI:81:ILE:CB	2.57	0.49
9:AJ:47:CYS:O	9:AJ:51:GLN:HG2	2.12	0.49
10:AK:89:PRO:HA	10:AK:92:ARG:NE	2.28	0.49
11:AL:48:GLU:N	11:AL:49:PRO:CD	2.73	0.49
11:AL:85:LEU:HD12	11:AL:89:ASN:ND2	2.28	0.49
12:AM:7:LYS:HZ2	12:AM:71:LEU:HD11	1.78	0.49
13:AN:18:ARG:HG2	13:AN:18:ARG:NH1	2.26	0.49
1:AA:684:A:O2'	13:AN:39:PRO:O	2.30	0.49
13:AN:45:GLY:O	13:AN:50:TYR:CB	2.60	0.49
14:AO:106:ASP:O	14:AO:107:ALA:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:82:VAL:HB	14:AO:106:ASP:OD2	2.13	0.49
15:AP:13:LYS:CB	15:AP:17:VAL:HG11	2.39	0.49
15:AP:90:LEU:HD21	15:AP:93:ARG:HH11	1.76	0.49
15:AP:96:LEU:O	15:AP:98:VAL:HG23	2.12	0.49
16:AQ:26:ARG:HB3	16:AQ:43:CYS:CB	2.43	0.49
18:AS:21:VAL:HG22	18:AS:36:ILE:HD13	1.95	0.49
20:AU:74:ARG:NH1	20:AU:81:PHE:HB3	2.27	0.49
22:AW:45:GLN:NE2	22:AW:91:LEU:HB3	2.28	0.49
48:B1:30:LEU:HD11	48:B1:48:LEU:HD23	1.94	0.49
48:B1:51:GLN:O	48:B1:54:ARG:HG3	2.12	0.49
49:B2:12:PRO:O	49:B2:13:ILE:O	2.30	0.49
49:B2:5:LYS:HE2	49:B2:57:GLU:HB2	1.94	0.49
52:B5:8:LYS:O	52:B5:9:LEU:HD22	2.13	0.49
24:BA:688:U:P	53:B6:2:LYS:HE2	2.52	0.49
54:B7:16:ILE:HG22	54:B7:21:LYS:O	2.13	0.49
24:BA:1008:C:H6	24:BA:1008:C:OP1	1.95	0.49
24:BA:1071:G:O4'	24:BA:1089:G:C5	2.65	0.49
24:BA:1095:A:N7	24:BA:1097:U:O4	2.45	0.49
24:BA:1142(A):A:C2	24:BA:1143:A:O4'	2.66	0.49
24:BA:1183:G:C1'	24:BA:1184:G:C8	2.93	0.49
24:BA:1250:G:O2'	24:BA:1251:C:OP2	2.30	0.49
24:BA:1288:U:C2	24:BA:1327:C:O2	2.66	0.49
24:BA:1299:G:O4'	24:BA:1301:A:C2	2.65	0.49
24:BA:1469:A:H8	24:BA:1469:A:H3'	1.76	0.49
24:BA:149:A:C8	24:BA:150:C:O4'	2.66	0.49
24:BA:1544:C:O2'	24:BA:1545:A:C4'	2.61	0.49
24:BA:1661:G:C6	24:BA:1662:C:C4	3.01	0.49
24:BA:1687:G:H1'	24:BA:1702:G:N2	2.26	0.49
24:BA:1789:A:O4'	27:BD:222:ARG:CZ	2.61	0.49
24:BA:1814:G:C2'	24:BA:1815:A:C8	2.90	0.49
24:BA:1816:G:O3'	24:BA:1817:G:H8	1.96	0.49
24:BA:1821:A:N6	24:BA:1822:G:O6	2.46	0.49
24:BA:1903:G:C4	24:BA:1904:G:C8	3.01	0.49
24:BA:1919:A:H3'	24:BA:1919:A:P	2.53	0.49
24:BA:1906:G:N9	24:BA:1929:G:C8	2.80	0.49
24:BA:1937:A:N7	24:BA:1939:U:C4	2.81	0.49
24:BA:2051:A:H3'	24:BA:2578:G:C5'	2.43	0.49
24:BA:2053:G:N1	24:BA:2054:A:C5	2.80	0.49
24:BA:2227:A:C5	24:BA:2228:G:N7	2.80	0.49
24:BA:2296:U:O5'	24:BA:2296:U:C6	2.65	0.49
24:BA:2306:C:O2'	30:BG:153:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2347:C:H5	24:BA:2382:G:H1'	1.77	0.49
24:BA:411:G:O4'	24:BA:2407:G:OP2	2.31	0.49
24:BA:2440:C:H2'	24:BA:2441:C:O5'	2.13	0.49
24:BA:2472:G:C3'	24:BA:2475:C:H42	2.25	0.49
24:BA:2497:A:H3'	24:BA:2497:A:C8	2.48	0.49
24:BA:2453:A:C2	24:BA:2499:C:N4	2.80	0.49
24:BA:2527:C:O2'	24:BA:2528:U:C5'	2.61	0.49
24:BA:2600:A:C2	24:BA:2601:C:C5	3.01	0.49
24:BA:2618:G:H2'	24:BA:2619:C:H6	1.77	0.49
24:BA:2654:A:C4'	24:BA:2656:U:C5	2.91	0.49
24:BA:2699:C:H2'	24:BA:2700:C:H5'	1.95	0.49
24:BA:2705:A:HO2'	24:BA:2706:G:P	2.35	0.49
24:BA:2766:G:C2	24:BA:2767:C:C6	3.00	0.49
24:BA:2773:C:OP1	28:BE:164:ARG:NH2	2.46	0.49
24:BA:2828:C:H2'	24:BA:2829:C:H6	1.78	0.49
24:BA:297:C:C4	24:BA:298:G:C2	3.00	0.49
24:BA:361:G:H2'	24:BA:362:U:H6	1.78	0.49
24:BA:37:C:H5'	24:BA:451:C:H5''	1.95	0.49
24:BA:386:G:O2'	24:BA:387:U:OP2	2.31	0.49
24:BA:540:G:C5	24:BA:541:C:C5	3.00	0.49
24:BA:573:G:C2'	24:BA:574:C:C5'	2.91	0.49
24:BA:600:G:H21	24:BA:604:G:H4'	1.77	0.49
24:BA:629:G:N2	24:BA:635:C:C2	2.81	0.49
24:BA:632:A:C2	24:BA:633:A:C4	3.00	0.49
24:BA:64:A:C2	24:BA:65:C:H1'	2.47	0.49
24:BA:704:G:C2	24:BA:725:G:N2	2.80	0.49
24:BA:715:G:C2'	24:BA:716:A:O5'	2.61	0.49
24:BA:749:C:H4'	24:BA:1271:G:N3	2.28	0.49
24:BA:832:G:OP1	36:BO:36:LYS:CE	2.61	0.49
24:BA:956:G:OP1	37:BP:87:LYS:HG3	2.13	0.49
25:BB:75:G:O6	25:BB:76:G:N2	2.46	0.49
25:BB:97:G:H2'	25:BB:98:G:C5'	2.33	0.49
27:BD:124:PRO:HG2	27:BD:126:GLN:HG2	1.94	0.49
27:BD:172:TYR:CD2	27:BD:186:HIS:N	2.80	0.49
24:BA:1775:U:C4	27:BD:208:LYS:HD2	2.47	0.49
28:BE:148:GLY:O	28:BE:149:ARG:HB3	2.12	0.49
24:BA:2680:C:H4'	28:BE:188:VAL:HB	1.95	0.49
28:BE:195:LEU:C	28:BE:195:LEU:HD13	2.30	0.49
28:BE:196:VAL:HG13	28:BE:197:ILE:H	1.77	0.49
28:BE:203:LYS:CD	28:BE:203:LYS:O	2.58	0.49
28:BE:53:PRO:HD2	28:BE:74:PRO:C	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2787:C:H1'	28:BE:61:ARG:CZ	2.43	0.49
28:BE:66:HIS:CG	28:BE:67:PHE:N	2.80	0.49
29:BF:47:GLY:O	29:BF:95:ARG:O	2.30	0.49
30:BG:53:LEU:HD21	30:BG:72:ARG:N	2.28	0.49
31:BH:58:GLU:HG2	31:BH:59:ARG:N	2.27	0.49
31:BH:69:ARG:CG	31:BH:69:ARG:NH2	2.74	0.49
31:BH:74:ASN:CG	31:BH:75:ALA:N	2.66	0.49
34:BM:69:GLN:HE21	34:BM:69:GLN:H	1.60	0.49
34:BM:70:LYS:HD3	34:BM:86:PRO:HA	1.94	0.49
34:BM:99:LEU:HD12	34:BM:100:GLU:HA	1.95	0.49
35:BN:12:ASP:O	35:BN:94:ARG:NH2	2.46	0.49
35:BN:8:LEU:CD2	35:BN:81:ASP:O	2.60	0.49
38:BQ:20:LEU:HD11	38:BQ:24:GLN:CD	2.31	0.49
39:BR:89:ARG:NE	39:BR:90:GLY:O	2.44	0.49
40:BS:53:ARG:NH2	40:BS:102:ILE:N	2.57	0.49
42:BU:15:GLU:CD	42:BU:16:PRO:CD	2.79	0.49
43:BV:78:GLU:OE2	43:BV:101:SER:N	2.46	0.49
45:BX:81:LYS:CE	45:BX:96:ILE:HG12	2.42	0.49
46:BY:107:THR:OG1	46:BY:141:VAL:O	2.29	0.49
46:BY:18:LEU:HB3	46:BY:23:LYS:C	2.32	0.49
46:BY:95:PRO:HD2	46:BY:131:ARG:N	2.28	0.49
47:BZ:40:GLN:HG2	47:BZ:45:PHE:CD1	2.48	0.49
24:BA:2157:G:H4'	24:BA:2158:A:OP1	2.13	0.49
26:BC:177:LYS:HB2	26:BC:180:PHE:CG	2.47	0.49
15:AP:58:GLU:O	15:AP:61:GLU:CB	2.61	0.49
3:AD:26:A:C2	3:AD:27:G:C8	3.00	0.49
9:AJ:136:LYS:HB3	9:AJ:136:LYS:HE3	1.55	0.49
2:A1:34:U:H6	2:A1:34:U:OP2	1.96	0.49
1:AA:1054:C:C5	3:AB:34:G:H4'	2.48	0.49
1:AA:1197:G:P	1:AA:1197:G:H3'	2.49	0.49
1:AA:1260:C:O5'	1:AA:1284:C:H4'	2.12	0.49
1:AA:1336:C:H4'	1:AA:1337:G:N1	2.28	0.49
1:AA:945:G:C2	1:AA:1337:G:C4	3.00	0.49
1:AA:1340:A:H2'	1:AA:1341:U:C6	2.47	0.49
1:AA:134:A:N1	1:AA:135:C:C4	2.80	0.49
1:AA:1353:G:C2	1:AA:1370:G:C2	3.01	0.49
1:AA:1371:G:OP2	11:AL:11:LYS:HE3	2.13	0.49
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.48	0.49
1:AA:262:A:C5	1:AA:263:A:N6	2.81	0.49
1:AA:250:A:C2	1:AA:274:A:N1	2.81	0.49
1:AA:453:A:N6	1:AA:480:U:C2	2.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:519:C:N4	1:AA:520:A:N3	2.59	0.49
1:AA:631:G:O2'	1:AA:632:A:C8	2.60	0.49
1:AA:643:C:C2	1:AA:644:G:C8	3.01	0.49
1:AA:781:A:O4'	1:AA:1523:G:H1'	2.11	0.49
1:AA:978:A:N6	1:AA:1318:A:N6	2.60	0.49
3:AB:34:G:C6	3:AB:35:A:C8	3.00	0.49
4:AE:91:PRO:CG	4:AE:155:LEU:HD23	2.42	0.49
4:AE:192:SER:C	4:AE:194:PRO:CD	2.80	0.49
1:AA:843:U:H3	4:AE:37:ASN:HA	1.77	0.49
4:AE:71:VAL:HG22	4:AE:93:VAL:N	2.28	0.49
5:AF:132:ARG:C	5:AF:136:GLN:HE21	2.15	0.49
5:AF:17:ASP:O	5:AF:18:TRP:C	2.51	0.49
5:AF:55:VAL:HG12	5:AF:57:ILE:HG13	1.95	0.49
5:AF:55:VAL:CG2	5:AF:68:VAL:HG13	2.39	0.49
5:AF:6:HIS:O	5:AF:8:ILE:N	2.45	0.49
6:AG:128:VAL:HG23	6:AG:133:VAL:H	1.78	0.49
6:AG:152:SER:OG	6:AG:158:ILE:HD12	2.12	0.49
6:AG:64:LEU:HD12	6:AG:75:PHE:CZ	2.47	0.49
6:AG:8:VAL:C	6:AG:10:ARG:H	2.15	0.49
9:AJ:106:GLN:O	9:AJ:109:ASN:N	2.45	0.49
9:AJ:123:GLU:O	9:AJ:124:LEU:C	2.50	0.49
9:AJ:15:ASP:N	9:AJ:20:ASP:H	2.09	0.49
9:AJ:2:ALA:CB	9:AJ:5:ARG:O	2.60	0.49
9:AJ:76:ARG:NH1	9:AJ:89:MET:CG	2.72	0.49
10:AK:96:GLY:O	10:AK:97:VAL:C	2.51	0.49
11:AL:113:LYS:HZ1	11:AL:119:ALA:HB1	1.77	0.49
11:AL:78:LYS:HD3	11:AL:79:LEU:CD2	2.41	0.49
12:AM:54:PHE:CE1	12:AM:55:LYS:HB3	2.48	0.49
13:AN:46:GLY:HA3	13:AN:55:LYS:HD2	1.91	0.49
13:AN:63:LEU:C	13:AN:63:LEU:CD2	2.81	0.49
13:AN:84:VAL:O	13:AN:85:ARG:HD3	2.13	0.49
15:AP:81:LEU:HD11	15:AP:88:ARG:NH2	2.20	0.49
16:AQ:34:TYR:CE1	16:AQ:39:LEU:O	2.65	0.49
17:AR:63:ARG:HH12	17:AR:87:ILE:HD13	1.76	0.49
19:AT:20:THR:O	19:AT:21:VAL:HG13	2.13	0.49
21:AV:18:LYS:HE2	21:AV:22:LEU:CB	2.43	0.49
1:AA:1311:G:N7	21:AV:2:PRO:HA	2.27	0.49
21:AV:31:ILE:O	21:AV:33:THR:N	2.46	0.49
21:AV:64:GLU:CG	21:AV:65:ASN:N	2.73	0.49
22:AW:29:LYS:O	22:AW:30:LYS:C	2.50	0.49
24:BA:851:U:C5'	49:B2:49:LYS:HD2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:52:HIS:CG	49:B2:53:LEU:H	2.30	0.49
49:B2:8:LEU:C	49:B2:8:LEU:HD13	2.32	0.49
50:B3:57:GLU:O	50:B3:60:GLN:HG3	2.12	0.49
53:B6:19:ARG:CB	53:B6:23:ARG:NH2	2.73	0.49
54:B7:8:LYS:HA	54:B7:11:LYS:CD	2.40	0.49
24:BA:1044:G:C8	24:BA:1048:A:H1'	2.48	0.49
24:BA:1061:U:H4'	24:BA:1070:A:O4'	2.13	0.49
24:BA:1304:C:C4	24:BA:1305:C:C5	3.01	0.49
24:BA:1331:A:O2'	24:BA:1332:G:H8	1.95	0.49
24:BA:1364:G:C5	24:BA:1366:A:OP1	2.65	0.49
24:BA:1342:A:C4	24:BA:1397:U:H1'	2.48	0.49
24:BA:1420:U:O2'	24:BA:1421:G:C5'	2.60	0.49
24:BA:1479:G:N2	24:BA:1515:C:N3	2.61	0.49
24:BA:1595:G:N2	24:BA:1596:A:H1'	2.27	0.49
24:BA:14:A:C8	24:BA:15:G:O4'	2.66	0.49
24:BA:1857:G:H2'	24:BA:1858:G:C4	2.48	0.49
24:BA:1857:G:C5	24:BA:1858:G:O6	2.66	0.49
24:BA:1864:U:O2'	24:BA:1869:G:H5'	2.12	0.49
24:BA:1893:C:C2'	24:BA:1894:C:H5'	2.43	0.49
24:BA:1769:G:N1	24:BA:1984:G:C5	2.80	0.49
24:BA:2019:A:C6	24:BA:2020:A:C4	3.01	0.49
24:BA:2078:C:H4'	24:BA:2433:A:O2'	2.12	0.49
24:BA:2080:G:C6	24:BA:2241:A:C6	3.00	0.49
24:BA:2264:C:C5	24:BA:2265:U:C5	3.00	0.49
24:BA:2304:G:N2	30:BG:156:ASP:OD1	2.46	0.49
24:BA:2415:G:C2	24:BA:2416:C:C2	3.00	0.49
24:BA:2418:A:C2	24:BA:2419:U:C2	3.00	0.49
24:BA:2469:A:C2	24:BA:2482:G:H1'	2.48	0.49
24:BA:2509:G:H2'	24:BA:2510:C:O4'	2.13	0.49
24:BA:2525:G:C2	24:BA:2539:C:N4	2.80	0.49
24:BA:2623:G:N2	24:BA:2624:G:C4	2.81	0.49
24:BA:2679:A:O2'	28:BE:189:PRO:HA	2.13	0.49
24:BA:2754:U:H2'	24:BA:2755:C:C5'	2.35	0.49
24:BA:280:C:O3'	24:BA:281:G:C3'	2.34	0.49
24:BA:2811:G:N1	24:BA:2891:G:C2	2.80	0.49
24:BA:2858:C:H3'	24:BA:2859:G:C8	2.47	0.49
24:BA:2901:C:C2	24:BA:2902:C:C5	3.00	0.49
24:BA:400:G:C3'	24:BA:400:G:C8	2.95	0.49
24:BA:227:A:N6	24:BA:410:G:H1'	2.27	0.49
24:BA:503:A:C5	24:BA:505:A:N7	2.81	0.49
24:BA:820:A:C2	24:BA:943:U:C2'	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:874:G:C2	24:BA:904:C:C4	3.01	0.49
24:BA:880:G:H2'	24:BA:881:G:C4'	2.43	0.49
24:BA:980:A:N1	24:BA:1135:C:H4'	2.28	0.49
25:BB:12:C:C5'	47:BZ:74:ARG:CG	2.86	0.49
27:BD:21:PHE:O	27:BD:205:VAL:CG2	2.56	0.49
27:BD:23:GLU:HB3	27:BD:204:ILE:CG1	2.43	0.49
27:BD:82:ILE:CG2	27:BD:83:GLU:N	2.76	0.49
28:BE:103:ASP:C	28:BE:104:VAL:CG2	2.81	0.49
28:BE:158:GLY:O	28:BE:160:TYR:CD1	2.51	0.49
28:BE:169:ASN:HD22	28:BE:170:LEU:N	2.04	0.49
28:BE:67:PHE:O	28:BE:68:ALA:C	2.51	0.49
28:BE:50:GLY:CA	28:BE:76:ARG:HE	2.24	0.49
28:BE:92:THR:N	28:BE:95:ILE:HD13	2.20	0.49
29:BF:65:TRP:HE1	29:BF:73:ALA:CB	2.17	0.49
31:BH:125:VAL:N	31:BH:126:PRO:CD	2.76	0.49
31:BH:136:ILE:H	31:BH:141:VAL:HG21	1.78	0.49
31:BH:23:ARG:NE	31:BH:34:GLU:HB3	2.27	0.49
32:BK:2:LYS:CE	32:BK:39:ALA:HB2	2.43	0.49
34:BM:127:ASP:O	34:BM:128:HIS:C	2.50	0.49
35:BN:37:ASP:HB2	35:BN:61:VAL:HG21	1.94	0.49
35:BN:99:PHE:CA	35:BN:122:LEU:O	2.61	0.49
37:BP:34:LEU:CD2	37:BP:118:LEU:HD22	2.42	0.49
37:BP:45:GLN:C	37:BP:48:GLU:HG2	2.32	0.49
37:BP:67:ARG:HH21	37:BP:103:MET:C	2.15	0.49
24:BA:2496:C:OP1	37:BP:83:MET:HE1	2.13	0.49
38:BQ:105:ARG:CA	38:BQ:105:ARG:NH1	2.76	0.49
38:BQ:5:LYS:C	38:BQ:5:LYS:NZ	2.65	0.49
39:BR:32:LEU:O	39:BR:34:HIS:N	2.45	0.49
39:BR:76:LYS:HD3	39:BR:77:ALA:H	1.77	0.49
40:BS:57:PHE:O	40:BS:58:ASN:CB	2.59	0.49
40:BS:64:ARG:HH12	40:BS:78:LEU:H	1.60	0.49
41:BT:105:VAL:HG13	41:BT:106:PHE:N	2.27	0.49
42:BU:2:PHE:O	42:BU:43:GLU:OE1	2.30	0.49
43:BV:21:VAL:HG22	43:BV:75:TYR:CD2	2.47	0.49
43:BV:33:ARG:NH1	43:BV:48:ALA:HB2	2.21	0.49
45:BX:75:ILE:HD12	45:BX:75:ILE:O	2.12	0.49
46:BY:6:LYS:CB	46:BY:37:VAL:HG13	2.42	0.49
32:BK:128:LEU:HD22	32:BK:129:THR:H	1.74	0.49
24:BA:2146:C:N3	24:BA:2147:G:C1'	2.75	0.49
26:BC:77:ILE:HB	26:BC:115:ALA:CB	2.42	0.49
26:BC:49:ILE:HG23	26:BC:208:PHE:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:22:ILE:HD13	26:BC:189:ILE:HG22	1.95	0.49
24:BA:183:C:H1'	24:BA:433:C:C1'	2.27	0.49
1:AA:160:A:H1'	1:AA:344:A:H62	1.77	0.49
2:A1:21:G:H2'	2:A1:22:C:O4'	2.12	0.49
26:BC:155:GLU:OE1	26:BC:155:GLU:HA	2.13	0.49
26:BC:34:THR:CG2	26:BC:34:THR:O	2.59	0.49
24:BA:1284:A:C5	24:BA:1285:G:N1	2.80	0.49
2:A1:31:U:H6	2:A1:31:U:O5'	1.96	0.49
2:A1:40:U:H2'	2:A1:41:U:C6	2.47	0.49
1:AA:1062:U:C2	1:AA:1063:C:N4	2.80	0.49
1:AA:1100:C:O2	1:AA:1102:A:C5'	2.56	0.49
1:AA:1186:G:H21	16:AQ:61:TRP:C	2.13	0.49
1:AA:132:C:C2	1:AA:133:U:C5	3.00	0.49
1:AA:1346:A:C8	1:AA:1348:U:N3	2.81	0.49
1:AA:1441:G:N2	1:AA:1459:C:C5	2.81	0.49
1:AA:1477:C:O5'	1:AA:1477:C:H6	1.95	0.49
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.12	0.49
1:AA:194:C:O2'	1:AA:195:A:H4'	2.13	0.49
1:AA:228:A:O2'	1:AA:229:U:H5'	2.12	0.49
1:AA:367:U:O2'	1:AA:368:U:H4'	2.12	0.49
1:AA:41:G:C4	1:AA:42:G:N7	2.81	0.49
1:AA:447:G:N2	1:AA:486:U:C5	2.81	0.49
1:AA:28:G:C6	1:AA:556:C:N4	2.81	0.49
1:AA:609:A:H2'	1:AA:610:G:O4'	2.13	0.49
1:AA:908:A:C2	1:AA:909:A:C5	3.01	0.49
3:AB:14:A:C8	3:AB:22:G:N2	2.81	0.49
3:AB:44:G:H2'	3:AB:45:U:H5'	1.95	0.49
3:AB:58:A:C4'	3:AB:59:U:OP1	2.60	0.49
3:AC:72:C:N4	3:AC:73:A:N6	2.61	0.49
4:AE:60:ASP:O	4:AE:64:ARG:HD2	2.12	0.49
4:AE:77:ALA:HA	4:AE:208:ILE:CD1	2.33	0.49
5:AF:187:ALA:CB	5:AF:198:VAL:HG22	2.42	0.49
5:AF:28:GLN:HA	5:AF:30:ARG:NH1	2.27	0.49
5:AF:84:ILE:CD1	5:AF:101:LEU:HD22	2.42	0.49
6:AG:188:LEU:C	6:AG:189:PRO:O	2.46	0.49
6:AG:191:ARG:CD	6:AG:191:ARG:C	2.81	0.49
7:AH:34:VAL:CG2	7:AH:62:ALA:CB	2.91	0.49
7:AH:79:GLU:CG	7:AH:93:PRO:CD	2.89	0.49
8:AI:28:ARG:N	8:AI:28:ARG:HD3	2.27	0.49
8:AI:86:ARG:O	8:AI:87:ARG:HG2	2.12	0.49
9:AJ:43:PHE:CD2	9:AJ:44:TYR:CE2	2.99	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:75:VAL:HG11	9:AJ:86:GLN:HB3	1.95	0.49
10:AK:122:ARG:HD3	10:AK:122:ARG:H	1.76	0.49
10:AK:33:GLU:OE2	10:AK:50:ARG:HD2	2.12	0.49
11:AL:112:LYS:HG3	11:AL:117:HIS:CA	2.41	0.49
1:AA:1368:G:OP1	11:AL:113:LYS:HA	2.13	0.49
11:AL:27:THR:HB	11:AL:62:TYR:HD1	1.76	0.49
11:AL:4:TYR:CE1	11:AL:59:PHE:HE2	2.14	0.49
11:AL:79:LEU:O	11:AL:82:ALA:HB3	2.12	0.49
12:AM:12:ASP:HB3	12:AM:15:THR:CG2	2.43	0.49
12:AM:48:THR:HG23	12:AM:61:GLU:C	2.33	0.49
12:AM:6:ILE:CG1	12:AM:73:ASP:H	2.26	0.49
13:AN:57:THR:C	13:AN:59:TYR:N	2.60	0.49
1:AA:1187:G:O2'	16:AQ:61:TRP:OXT	2.22	0.49
17:AR:35:ARG:NH2	17:AR:59:MET:HE3	2.28	0.49
18:AS:39:TYR:C	18:AS:39:TYR:CD1	2.85	0.49
18:AS:3:LYS:HA	18:AS:4:ILE:HD13	1.94	0.49
1:AA:277:C:P	19:AT:68:ARG:HH12	2.36	0.49
20:AU:39:VAL:O	20:AU:43:PHE:HE1	1.95	0.49
21:AV:19:VAL:CG1	21:AV:20:LEU:N	2.75	0.49
21:AV:81:ARG:HH11	21:AV:81:ARG:HB2	1.78	0.49
48:B1:28:MET:O	48:B1:31:ARG:N	2.46	0.49
48:B1:36:ILE:CG1	48:B1:37:GLY:N	2.69	0.49
50:B3:65:ASP:O	50:B3:68:ARG:NH1	2.45	0.49
24:BA:1263:U:C5'	51:B4:10:LYS:NZ	2.70	0.49
24:BA:2399:G:N3	52:B5:21:TYR:CE1	2.80	0.49
24:BA:459:U:OP2	53:B6:40:TRP:CD2	2.66	0.49
24:BA:1000:A:C2	24:BA:1155:A:N3	2.81	0.49
24:BA:1011:G:C6	24:BA:1151:G:C6	3.01	0.49
24:BA:1296:G:C4	24:BA:1297:C:C5	3.01	0.49
24:BA:1314:C:O5'	24:BA:1314:C:H6	1.96	0.49
24:BA:1349:A:H5'	24:BA:1350:C:C5'	2.42	0.49
24:BA:1353:A:O2'	24:BA:1354:A:O4'	2.30	0.49
24:BA:1356:G:N2	24:BA:1357:U:H1'	2.27	0.49
24:BA:1543:A:H8	24:BA:1544:C:HO2'	1.57	0.49
24:BA:1560:G:H2'	24:BA:1561:G:C8	2.48	0.49
24:BA:1567:A:C2'	24:BA:1567:A:N3	2.74	0.49
24:BA:1637:A:H4'	24:BA:2711:A:HO2'	1.73	0.49
24:BA:1729:A:H5''	24:BA:1730:U:C5	2.47	0.49
24:BA:1742:C:C6	24:BA:1742:C:OP2	2.65	0.49
24:BA:1747:G:C2	24:BA:1748:G:C8	3.01	0.49
24:BA:1801:G:H8	24:BA:1801:G:OP1	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1858:G:C6	24:BA:1883:G:C6	3.00	0.49
24:BA:1903:G:C4	24:BA:1904:G:N7	2.81	0.49
24:BA:1993:U:C3'	24:BA:1993:U:H6	2.24	0.49
24:BA:2357:U:H6	24:BA:2357:U:P	2.36	0.49
24:BA:2426:A:C3'	24:BA:2427:C:H5'	2.42	0.49
24:BA:245:G:C6	24:BA:246:C:N4	2.80	0.49
24:BA:2468:G:H4'	37:BP:120:ILE:CD1	2.40	0.49
24:BA:2496:C:C2	24:BA:2497:A:H2	2.30	0.49
24:BA:2520:C:C2	24:BA:2521:C:C5	3.01	0.49
24:BA:2573:C:H3'	24:BA:2573:C:C6	2.48	0.49
24:BA:2588:G:C5	24:BA:2589:A:N7	2.80	0.49
24:BA:270(P):C:O2'	24:BA:270(Q):C:H5'	2.12	0.49
24:BA:2632:A:C6	24:BA:2787:C:N4	2.81	0.49
24:BA:2787:C:H2'	24:BA:2788:C:C5	2.48	0.49
24:BA:2810:A:C2'	24:BA:2811:G:H5'	2.43	0.49
24:BA:2835:A:N6	24:BA:2879:C:OP2	2.45	0.49
24:BA:2847:U:H5'	24:BA:2848:G:OP2	2.13	0.49
24:BA:493:G:C2	24:BA:494:G:N9	2.81	0.49
24:BA:28:A:C1'	24:BA:513:A:C6	2.95	0.49
24:BA:604:G:O2'	24:BA:605:C:O5'	2.31	0.49
24:BA:660:G:H2'	24:BA:661:C:H6	1.76	0.49
24:BA:680:G:C4	24:BA:798:G:N2	2.81	0.49
24:BA:750:A:H2'	43:BV:90:ARG:NH1	2.26	0.49
24:BA:774:A:C5'	24:BA:778:G:C4'	2.90	0.49
24:BA:906:G:N1	24:BA:907:U:C4	2.81	0.49
24:BA:961:C:N4	24:BA:2031:A:C4	2.81	0.49
24:BA:993:G:C6	24:BA:994:C:N4	2.81	0.49
25:BB:99:A:H2'	25:BB:100:G:C5'	2.43	0.49
27:BD:144:ALA:HB3	27:BD:192:THR:HB	1.95	0.49
28:BE:176:ILE:HD13	28:BE:176:ILE:C	2.32	0.49
28:BE:55:ASN:HA	28:BE:58:ARG:HH22	1.78	0.49
28:BE:81:ILE:CG2	28:BE:82:ARG:HG2	2.40	0.49
29:BF:11:VAL:HB	29:BF:17:ARG:HH12	1.77	0.49
29:BF:136:THR:O	29:BF:139:PHE:HB3	2.13	0.49
31:BH:104:GLU:C	31:BH:105:LEU:HG	2.33	0.49
31:BH:159:GLU:HG2	31:BH:163:TYR:OH	2.11	0.49
33:BL:105:LEU:HD22	33:BL:124:ALA:HB2	1.93	0.49
33:BL:127:ILE:O	33:BL:131:ALA:CB	2.60	0.49
34:BM:95:PRO:HG2	34:BM:124:ALA:HB2	1.94	0.49
34:BM:98:VAL:O	34:BM:99:LEU:C	2.50	0.49
35:BN:39:ILE:HG12	35:BN:59:LYS:HZ2	1.67	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:64:ARG:CZ	35:BN:67:LYS:N	2.76	0.49
35:BN:96:THR:CG2	35:BN:97:ARG:N	2.54	0.49
35:BN:9:GLU:HA	35:BN:9:GLU:OE1	2.13	0.49
37:BP:80:GLU:O	37:BP:81:VAL:O	2.31	0.49
37:BP:42:ILE:C	37:BP:94:VAL:HG21	2.33	0.49
39:BR:24:LEU:HD11	39:BR:41:ASP:CB	2.43	0.49
41:BT:41:ALA:O	41:BT:42:ALA:C	2.51	0.49
42:BU:65:GLY:N	42:BU:97:LYS:HZ1	2.09	0.49
42:BU:23:GLU:HA	42:BU:93:GLU:CB	2.42	0.49
43:BV:10:VAL:HB	43:BV:12:ILE:CD1	2.42	0.49
43:BV:25:ARG:O	43:BV:27:LYS:N	2.46	0.49
24:BA:1340:U:C6	44:BW:57:LEU:HD11	2.48	0.49
45:BX:26:LYS:HD2	45:BX:27:VAL:HB	1.94	0.49
46:BY:37:VAL:C	46:BY:38:TYR:HD2	2.16	0.49
32:BK:72:LEU:C	32:BK:140:LEU:HD21	2.32	0.49
32:BK:94:ALA:CA	32:BK:97:ILE:HG13	2.36	0.49
24:BA:2168:G:N9	24:BA:2170:A:OP2	2.46	0.49
26:BC:47:LEU:CD2	26:BC:47:LEU:H	2.24	0.49
24:BA:1583:A:HO2'	24:BA:1585:C:H6	1.58	0.49
24:BA:1583:A:OP2	24:BA:1586:A:O3'	2.30	0.49
24:BA:2186:G:C2	24:BA:2187:G:C5	3.01	0.49
24:BA:164:U:C2'	24:BA:164:U:O2	2.60	0.49
1:AA:109:A:O4'	1:AA:109:A:N3	2.46	0.49
1:AA:1239:A:N3	1:AA:1239:A:C2'	2.74	0.49
1:AA:1301:U:C4	1:AA:1303:C:C6	3.00	0.49
1:AA:132:C:HO2'	1:AA:133:U:H6	1.59	0.49
1:AA:1338:G:C2	1:AA:1339:A:C5	3.01	0.49
1:AA:1419:G:C2'	1:AA:1420:C:C6	2.95	0.49
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.78	0.49
1:AA:1416:G:N2	1:AA:1485:U:H1'	2.27	0.49
1:AA:1539:C:O5'	1:AA:1539:C:H6	1.96	0.49
1:AA:138:G:C2	1:AA:226:G:C4	3.01	0.49
1:AA:270:A:O2'	1:AA:271:C:C5'	2.56	0.49
1:AA:113:G:C4'	1:AA:354:G:H5''	2.43	0.49
1:AA:408:A:C5'	6:AG:116:GLN:HE21	2.25	0.49
1:AA:423:G:N2	1:AA:424:G:C4	2.80	0.49
1:AA:432:A:C8	1:AA:433:C:C6	3.01	0.49
1:AA:527:G:H2'	1:AA:528:C:H6	1.78	0.49
1:AA:59:A:H4'	1:AA:388:G:O5'	2.13	0.49
1:AA:649:G:H2'	1:AA:650:G:C8	2.44	0.49
1:AA:744:C:H2'	1:AA:745:C:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:907:A:C4	1:AA:908:A:C8	3.00	0.49
1:AA:924:C:C2'	1:AA:925:G:O5'	2.61	0.49
3:AC:23:A:C6	3:AC:24:G:C6	3.01	0.49
4:AE:167:PRO:HG2	4:AE:168:THR:N	2.24	0.49
5:AF:14:ILE:HG13	5:AF:178:LEU:CD1	2.43	0.49
5:AF:179:ARG:CD	5:AF:206:GLU:OE1	2.61	0.49
6:AG:144:ASP:HA	6:AG:184:LYS:HZ3	1.77	0.49
6:AG:200:GLU:OE2	6:AG:201:GLN:NE2	2.45	0.49
6:AG:98:GLU:OE2	6:AG:107:ARG:HG3	2.12	0.49
7:AH:149:GLU:O	7:AH:150:ARG:C	2.51	0.49
7:AH:56:GLN:N	7:AH:56:GLN:HE21	2.10	0.49
8:AI:68:PRO:O	8:AI:69:GLU:C	2.51	0.49
9:AJ:49:ILE:CG2	9:AJ:121:ALA:HB1	2.33	0.49
9:AJ:65:ALA:CB	9:AJ:124:LEU:HD23	2.43	0.49
9:AJ:72:ARG:O	9:AJ:91:VAL:N	2.43	0.49
10:AK:14:ARG:NH1	10:AK:14:ARG:CB	2.56	0.49
10:AK:68:ARG:CD	10:AK:69:ARG:N	2.73	0.49
11:AL:85:LEU:HD11	11:AL:92:TYR:HE1	1.77	0.49
12:AM:49:VAL:C	12:AM:60:ARG:HB3	2.32	0.49
13:AN:51:LYS:HD3	13:AN:52:GLY:N	2.24	0.49
13:AN:80:VAL:H	13:AN:104:GLN:HE21	1.58	0.49
14:AO:59:ARG:HE	14:AO:65:GLU:CG	2.26	0.49
16:AQ:23:ARG:HA	16:AQ:30:ALA:HA	1.93	0.49
18:AS:55:ARG:O	18:AS:56:ALA:C	2.51	0.49
19:AT:68:ARG:N	19:AT:70:ARG:NH2	2.46	0.49
8:AI:98:LEU:CG	20:AU:28:GLU:HG3	2.41	0.49
1:AA:736:C:C5'	20:AU:72:ARG:NH2	2.68	0.49
48:B1:20:VAL:HG23	48:B1:52:ILE:CG2	2.30	0.49
49:B2:35:ARG:NH1	49:B2:47:VAL:CG2	2.74	0.49
50:B3:17:GLY:O	50:B3:18:CYS:HB3	2.13	0.49
50:B3:59:PHE:CA	50:B3:62:ARG:CZ	2.90	0.49
51:B4:34:PRO:HG3	51:B4:40:LYS:HZ1	1.78	0.49
53:B6:5:TRP:CE3	53:B6:5:TRP:C	2.86	0.49
24:BA:119:A:C4'	24:BA:120:U:H5'	2.42	0.49
24:BA:1238:G:C2	24:BA:1239:G:N9	2.81	0.49
24:BA:1267:U:H3'	24:BA:1267:U:C6	2.48	0.49
24:BA:1281:G:C4	24:BA:1282:U:C5	3.01	0.49
24:BA:1493:C:C2'	24:BA:1493:C:O2	2.53	0.49
24:BA:1500:G:O2'	24:BA:1501:C:H5'	2.12	0.49
24:BA:1568:G:N3	24:BA:1568:G:O4'	2.46	0.49
24:BA:163:U:O5'	24:BA:163:U:H6	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1710:C:O5'	24:BA:1710:C:H6	1.95	0.49
24:BA:1788:C:C6	24:BA:1788:C:H3'	2.47	0.49
24:BA:1949:G:C2'	24:BA:1950:G:O4'	2.61	0.49
24:BA:196:A:N1	24:BA:828:U:C5'	2.61	0.49
24:BA:1269:A:N6	24:BA:2011:U:H3	2.06	0.49
24:BA:2024:G:C4	24:BA:2025:C:C6	3.01	0.49
24:BA:2096:U:C2	24:BA:2097:C:C5	3.01	0.49
24:BA:2219:G:C2'	24:BA:2224:G:O5'	2.61	0.49
24:BA:2235:G:N2	24:BA:2236:C:C2	2.81	0.49
24:BA:2238:G:O2'	24:BA:2239:G:O4'	2.31	0.49
24:BA:2302:G:N2	24:BA:2303:G:H1'	2.28	0.49
24:BA:2349:G:C4	24:BA:2369:A:C2	3.01	0.49
24:BA:2377:A:N3	24:BA:2378:A:C8	2.81	0.49
24:BA:2385:C:O2'	24:BA:2386:C:O5'	2.28	0.49
24:BA:2415:G:C2	24:BA:2416:C:C4	3.01	0.49
24:BA:2259:G:O4'	24:BA:2427:C:C5	2.66	0.49
24:BA:249:C:C5	24:BA:2395:C:OP1	2.66	0.49
24:BA:24:G:C4	24:BA:25:U:C5	3.01	0.49
3:AB:75:C:C2	24:BA:2508:G:H5'	2.46	0.49
24:BA:2509:G:C2	24:BA:2510:C:H1'	2.48	0.49
24:BA:2640:G:H2'	24:BA:2641:G:H8	1.77	0.49
24:BA:2731:G:N2	24:BA:2732:G:N2	2.60	0.49
24:BA:2752:C:N3	24:BA:2753:A:C8	2.81	0.49
24:BA:572:A:N6	24:BA:2029:G:H1'	2.27	0.49
24:BA:673:C:H2'	24:BA:674:G:O5'	2.12	0.49
24:BA:696:G:C2	24:BA:697:C:C6	3.01	0.49
24:BA:715:G:C4	24:BA:716:A:C6	3.01	0.49
24:BA:734:A:C2	24:BA:735:A:N9	2.80	0.49
24:BA:776:G:N3	24:BA:793:A:C6	2.81	0.49
24:BA:684:G:N2	24:BA:794:G:N2	2.60	0.49
24:BA:868:U:C4	24:BA:869:G:N7	2.80	0.49
24:BA:881:G:N2	24:BA:897:C:C4	2.81	0.49
24:BA:917:A:C3'	24:BA:918:A:C5'	2.79	0.49
25:BB:32:C:C2	25:BB:33:G:C8	3.01	0.49
25:BB:65:C:C5	25:BB:108:C:C5	3.01	0.49
27:BD:116:GLN:O	27:BD:117:VAL:HG23	2.13	0.49
27:BD:27:THR:CG2	27:BD:29:PRO:HD2	2.36	0.49
27:BD:85:ASP:HB2	27:BD:87:ASN:ND2	2.23	0.49
28:BE:54:GLN:CG	28:BE:57:LYS:HG3	2.43	0.49
29:BF:33:LEU:HD23	29:BF:112:MET:SD	2.52	0.49
29:BF:80:ALA:HB1	29:BF:81:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:103:LEU:HD12	30:BG:103:LEU:O	2.13	0.49
30:BG:136:ARG:O	30:BG:153:ARG:HG2	2.12	0.49
30:BG:26:GLN:CD	30:BG:29:TRP:HE3	2.16	0.49
31:BH:63:SER:O	31:BH:67:LEU:HD23	2.12	0.49
33:BL:24:GLY:CA	33:BL:34:ILE:HG12	2.37	0.49
34:BM:89:LYS:HE3	34:BM:89:LYS:N	2.22	0.49
24:BA:662:G:C5'	36:BO:17:LYS:H	2.22	0.49
37:BP:12:GLN:NE2	37:BP:13:GLN:NE2	2.41	0.49
38:BQ:100:LEU:HD12	38:BQ:101:ALA:H	1.76	0.49
38:BQ:85:PRO:O	38:BQ:86:ARG:C	2.50	0.49
39:BR:103:GLU:HA	39:BR:106:ARG:HB2	1.94	0.49
39:BR:73:LEU:N	39:BR:73:LEU:CD1	2.74	0.49
28:BE:9:VAL:CG1	40:BS:3:ARG:HG2	2.41	0.49
41:BT:5:LYS:O	41:BT:7:GLY:N	2.46	0.49
43:BV:23:LEU:HD21	51:B4:25:LEU:O	2.13	0.49
43:BV:5:ALA:O	43:BV:105:VAL:CG1	2.61	0.49
24:BA:24:G:O2'	43:BV:77:ASP:OD1	2.27	0.49
43:BV:98:LYS:HE2	43:BV:99:ARG:C	2.32	0.49
44:BW:36:LYS:NZ	44:BW:36:LYS:HB2	2.28	0.49
44:BW:60:ARG:CD	44:BW:62:LYS:NZ	2.72	0.49
45:BX:52:SER:O	45:BX:53:PRO:C	2.48	0.49
46:BY:10:ARG:HD3	46:BY:36:LYS:CG	2.42	0.49
25:BB:78:A:H5'	46:BY:78:LYS:HE3	1.95	0.49
47:BZ:54:GLY:C	47:BZ:56:ASP:N	2.66	0.49
24:BA:2134:A:H5''	24:BA:2134:A:N3	2.27	0.49
24:BA:2160:G:C2	24:BA:2161:C:C2	3.01	0.49
24:BA:2169:A:N3	24:BA:2169:A:H2'	2.28	0.49
26:BC:62:VAL:CB	26:BC:195:ALA:CB	2.78	0.49
26:BC:171:ILE:HD13	26:BC:196:LEU:HD11	1.95	0.49
26:BC:21:THR:N	26:BC:24:GLU:OE1	2.45	0.49
26:BC:89:ALA:O	26:BC:157:LYS:HE2	2.12	0.49
1:AA:1034:G:N3	1:AA:1035:A:N7	2.61	0.49
1:AA:1053:G:C2	1:AA:1199:U:C4	3.01	0.49
1:AA:1118:C:H1'	1:AA:1179:A:C8	2.48	0.49
1:AA:1330:U:OP1	15:AP:25:ILE:N	2.37	0.49
1:AA:1354:C:H2'	1:AA:1355:G:C8	2.48	0.49
1:AA:1413:A:N1	1:AA:1487:G:N2	2.41	0.49
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.47	0.49
1:AA:1469:G:N2	1:AA:1470:G:C4	2.81	0.49
1:AA:1488:G:C6	1:AA:1489:G:N7	2.81	0.49
1:AA:293:G:OP2	1:AA:293:G:C8	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:392:G:H5'	18:AS:12:LYS:HZ2	1.78	0.49
1:AA:404:U:OP1	6:AG:118:ARG:CZ	2.61	0.49
1:AA:498:A:C4'	1:AA:500:G:H5'	2.39	0.49
1:AA:521:G:N2	1:AA:522:C:C2	2.81	0.49
1:AA:537:G:H5''	14:AO:113:ARG:NH1	2.28	0.49
1:AA:545:C:O2'	1:AA:546:G:C5'	2.55	0.49
1:AA:547:A:H4'	1:AA:548:G:O5'	2.10	0.49
1:AA:748:C:O2'	1:AA:749:C:C5'	2.61	0.49
1:AA:769:G:O2'	1:AA:770:C:C5'	2.61	0.49
1:AA:925:G:H1'	1:AA:1502:A:H1'	1.95	0.49
1:AA:949:A:H2'	1:AA:950:U:C5	2.48	0.49
1:AA:972:C:O2	1:AA:972:C:H2'	2.12	0.49
1:AA:983:A:C2'	1:AA:983:A:N3	2.76	0.49
1:AA:986:A:H4'	21:AV:55:LYS:HE3	1.94	0.49
4:AE:168:THR:CB	4:AE:192:SER:HA	2.43	0.49
5:AF:88:ARG:HG3	5:AF:99:VAL:O	2.13	0.49
6:AG:133:VAL:HG11	6:AG:135:LEU:HD12	1.95	0.49
6:AG:205:GLU:CD	7:AH:100:VAL:H	2.16	0.49
7:AH:74:GLY:O	7:AH:75:THR:CB	2.61	0.49
9:AJ:70:LYS:O	9:AJ:138:LYS:CE	2.61	0.49
1:AA:598:U:C4'	10:AK:94:TYR:HD2	2.17	0.49
1:AA:675:A:N3	13:AN:116:HIS:CB	2.76	0.49
13:AN:120:ARG:HE	13:AN:126:ARG:HH21	1.60	0.49
13:AN:18:ARG:N	13:AN:18:ARG:HD3	2.28	0.49
13:AN:31:THR:HG22	13:AN:32:ILE:N	2.27	0.49
13:AN:94:ALA:O	13:AN:98:LEU:HG	2.13	0.49
14:AO:24:VAL:HG12	14:AO:24:VAL:O	2.12	0.49
14:AO:60:LEU:HD21	14:AO:64:TYR:HD2	1.76	0.49
15:AP:10:PRO:HG3	15:AP:18:ALA:HA	1.93	0.49
17:AR:42:HIS:CD2	17:AR:43:LEU:N	2.81	0.49
18:AS:8:ARG:O	18:AS:9:PHE:HD2	1.95	0.49
19:AT:75:ARG:HH12	19:AT:77:VAL:HA	1.77	0.49
49:B2:23:LEU:HA	49:B2:28:LEU:HD11	1.95	0.49
49:B2:6:VAL:HG12	49:B2:56:VAL:HA	1.93	0.49
50:B3:56:VAL:CG1	50:B3:61:ARG:HG2	2.43	0.49
54:B7:22:VAL:HG13	54:B7:23:VAL:H	1.78	0.49
24:BA:83:G:C6	24:BA:102:G:N3	2.81	0.49
24:BA:1123:C:C2	24:BA:1124:C:C5	3.01	0.49
24:BA:1143:A:O2'	24:BA:1144:G:C5'	2.61	0.49
24:BA:1147:C:H2'	24:BA:1148:A:C5'	2.42	0.49
24:BA:1212:G:H3'	24:BA:1212:G:H8	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1240:U:C2'	24:BA:1240:U:O2	2.61	0.49
24:BA:1343:G:H1'	24:BA:1597:A:N1	2.28	0.49
24:BA:1356:G:C2'	24:BA:1357:U:H5'	2.42	0.49
24:BA:1390:U:H6	24:BA:1390:U:O5'	1.96	0.49
24:BA:1401:G:H8	24:BA:1401:G:O5'	1.95	0.49
24:BA:1542:G:O2'	24:BA:1543:A:C4	2.62	0.49
24:BA:1689:A:H2'	24:BA:1690:A:H8	1.77	0.49
24:BA:1727:U:HO2'	24:BA:1728:G:P	2.35	0.49
24:BA:1807:G:H21	24:BA:1809:A:C4'	2.25	0.49
24:BA:1882:C:C4	24:BA:1883:G:H1'	2.48	0.49
24:BA:1915:U:H2'	24:BA:1915:U:O2	2.13	0.49
24:BA:20:C:HO2'	24:BA:21:A:C5'	2.26	0.49
24:BA:2213:U:C3'	24:BA:2213:U:C2	2.96	0.49
24:BA:2218:G:O3'	27:BD:186:HIS:NE2	2.46	0.49
24:BA:2225:A:C5'	24:BA:2226:C:O4'	2.52	0.49
24:BA:2723:C:C4'	38:BQ:2:ARG:O	2.58	0.49
24:BA:2753:A:C2'	24:BA:2754:U:O5'	2.61	0.49
24:BA:2828:C:H2'	24:BA:2829:C:C6	2.48	0.49
24:BA:2801:A:C2	24:BA:2895:U:H1'	2.41	0.49
24:BA:289:A:C4	24:BA:351:G:C6	3.01	0.49
24:BA:28:A:N3	24:BA:29:U:O4'	2.46	0.49
24:BA:348:G:N3	24:BA:349:G:N7	2.61	0.49
24:BA:478:A:N6	24:BA:480:A:N1	2.61	0.49
24:BA:583:G:C2'	24:BA:584:C:O5'	2.61	0.49
24:BA:625:G:O6	36:BO:100:LEU:O	2.31	0.49
24:BA:692:C:H2'	24:BA:693:C:O5'	2.13	0.49
24:BA:700:G:C6	24:BA:701:G:N7	2.81	0.49
24:BA:730:C:H2'	24:BA:731:C:H6	1.73	0.49
24:BA:746:A:O2'	24:BA:747:U:OP1	2.31	0.49
25:BB:86:G:C2	25:BB:91:C:C2	3.00	0.49
27:BD:131:LEU:HA	27:BD:190:TYR:CE2	2.47	0.49
24:BA:1790:C:O3'	27:BD:213:ARG:HD3	2.13	0.49
27:BD:24:ILE:CG2	27:BD:25:THR:N	2.76	0.49
27:BD:7:LYS:HG3	27:BD:26:LYS:C	2.32	0.49
27:BD:53:PHE:C	27:BD:54:ARG:O	2.50	0.49
27:BD:5:LYS:CD	27:BD:31:LYS:HZ2	2.26	0.49
27:BD:79:VAL:HG12	27:BD:81:ALA:CA	2.43	0.49
28:BE:136:ARG:NH1	28:BE:137:HIS:HA	2.28	0.49
28:BE:150:VAL:HG12	28:BE:150:VAL:O	2.13	0.49
28:BE:98:PRO:HA	28:BE:172:VAL:HG21	1.95	0.49
28:BE:37:ARG:CB	28:BE:40:GLU:HB2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:49:LEU:HD11	28:BE:51:PHE:HD1	1.78	0.49
29:BF:202:PHE:CD2	29:BF:205:ARG:HD2	2.48	0.49
29:BF:31:HIS:ND1	36:BO:14:LYS:CE	2.75	0.49
33:BL:11:GLN:C	33:BL:12:LEU:HG	2.33	0.49
34:BM:2:LYS:N	41:BT:61:TRP:CH2	2.80	0.49
34:BM:78:TYR:O	34:BM:80:GLY:N	2.46	0.49
35:BN:7:TYR:CA	35:BN:18:LYS:CE	2.85	0.49
36:BO:107:LYS:O	36:BO:107:LYS:HG3	2.13	0.49
36:BO:114:ILE:CD1	36:BO:129:ALA:O	2.44	0.49
36:BO:6:LEU:O	36:BO:7:ARG:HG3	2.13	0.49
37:BP:16:ARG:NH1	37:BP:72:LYS:HG2	2.27	0.49
38:BQ:102:GLU:HG3	38:BQ:103:ARG:H	1.75	0.49
38:BQ:14:SER:HA	38:BQ:17:ARG:CG	2.41	0.49
38:BQ:56:LYS:C	38:BQ:58:GLY:N	2.66	0.49
39:BR:57:LYS:HZ2	39:BR:65:VAL:N	2.11	0.49
39:BR:49:VAL:HB	39:BR:80:LEU:HD12	1.95	0.49
40:BS:104:ASN:O	40:BS:105:LEU:O	2.31	0.49
24:BA:1251:C:C5'	41:BT:10:ARG:HE	2.26	0.49
41:BT:52:ARG:HB2	41:BT:55:ARG:HD3	1.94	0.49
43:BV:76:VAL:HG22	43:BV:102:HIS:O	2.13	0.49
44:BW:61:GLY:N	44:BW:73:ARG:NH1	2.61	0.49
45:BX:35:TYR:HE2	45:BX:67:LEU:HD13	1.78	0.49
46:BY:171:ILE:HG23	46:BY:172:ALA:N	2.28	0.49
24:BA:2331:G:H4'	47:BZ:42:GLY:CA	2.43	0.49
32:BK:113:ARG:HA	32:BK:131:LYS:NZ	2.28	0.49
24:BA:2113:U:N3	24:BA:2169:A:N6	2.60	0.49
24:BA:2118:U:H5	24:BA:2147:G:N7	2.10	0.49
26:BC:91:ALA:CB	26:BC:153:ILE:HG21	2.35	0.49
26:BC:27:HIS:NE2	26:BC:182:PRO:HG3	2.27	0.49
24:BA:2103:C:C2	24:BA:2104:G:C8	3.01	0.49
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.48	0.48
1:AA:1085:U:O2	1:AA:1094:G:C6	2.66	0.48
1:AA:1177:G:O5'	1:AA:1177:G:H8	1.96	0.48
1:AA:946:A:N6	1:AA:1236:A:C6	2.80	0.48
1:AA:1300:G:O2'	1:AA:1301:U:H6	1.95	0.48
1:AA:1347:G:HO2'	1:AA:1348:U:P	2.35	0.48
1:AA:1370:G:H5''	11:AL:12:GLU:CG	2.43	0.48
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.13	0.48
1:AA:1387:G:C4	1:AA:1388:C:C5	3.01	0.48
1:AA:1454:G:C4	1:AA:1455:G:N7	2.80	0.48
1:AA:1499:A:H2'	1:AA:1500:A:H5'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1512:U:O2'	1:AA:1513:A:H5'	2.13	0.48
1:AA:66:G:C4'	1:AA:173:U:O4	2.59	0.48
1:AA:279:A:H5''	1:AA:280:C:H3'	1.93	0.48
1:AA:295:C:C4	1:AA:303:A:C2	3.01	0.48
1:AA:451:A:O2'	1:AA:452:A:C8	2.65	0.48
1:AA:505:G:N1	1:AA:535:A:C2	2.81	0.48
1:AA:672:U:O2	1:AA:673:G:N7	2.45	0.48
1:AA:69:G:H2'	1:AA:69:G:N3	2.28	0.48
1:AA:874:G:N2	1:AA:875:C:C2	2.80	0.48
1:AA:972:C:OP2	12:AM:57:LYS:HD2	2.13	0.48
3:AB:29:G:C4	3:AB:30:G:C8	3.01	0.48
3:AC:57:G:OP1	30:BG:81:LYS:HD2	2.13	0.48
4:AE:115:LEU:HD23	4:AE:149:LEU:CD2	2.35	0.48
4:AE:207:ALA:C	4:AE:209:ARG:N	2.67	0.48
4:AE:234:PRO:O	4:AE:238:LEU:HD22	2.12	0.48
4:AE:28:PHE:CE1	4:AE:31:TYR:HB2	2.48	0.48
4:AE:55:PHE:CD2	4:AE:58:ILE:HD12	2.48	0.48
4:AE:76:GLN:O	4:AE:211:ILE:HD11	2.12	0.48
5:AF:16:ARG:O	5:AF:17:ASP:OD1	2.31	0.48
5:AF:190:ARG:O	5:AF:191:THR:C	2.51	0.48
7:AH:105:VAL:O	7:AH:106:PRO:C	2.51	0.48
7:AH:82:VAL:HG11	7:AH:134:ALA:O	2.12	0.48
7:AH:71:LEU:HD23	7:AH:72:GLN:N	2.28	0.48
7:AH:80:ILE:HG22	10:AK:104:ARG:HH22	1.78	0.48
8:AI:14:LEU:HD11	8:AI:19:LEU:CA	2.43	0.48
8:AI:47:ARG:C	8:AI:48:LEU:HD23	2.31	0.48
9:AJ:115:ARG:O	9:AJ:118:VAL:CB	2.60	0.48
9:AJ:47:CYS:HA	9:AJ:50:ILE:HG13	1.93	0.48
9:AJ:71:PRO:C	9:AJ:96:GLN:HE21	2.16	0.48
9:AJ:99:LEU:O	9:AJ:99:LEU:CD2	2.61	0.48
10:AK:124:ALA:O	10:AK:125:ARG:C	2.51	0.48
10:AK:89:PRO:HA	10:AK:92:ARG:HE	1.78	0.48
12:AM:49:VAL:O	12:AM:60:ARG:HA	2.13	0.48
13:AN:23:ALA:CB	13:AN:88:GLY:CA	2.91	0.48
13:AN:22:HIS:HD2	13:AN:23:ALA:N	2.11	0.48
15:AP:14:ARG:HG3	15:AP:16:ASP:OD2	2.12	0.48
15:AP:29:ARG:NH1	15:AP:66:LEU:HD22	2.28	0.48
15:AP:77:ASN:OD1	15:AP:78:ILE:HG13	2.13	0.48
5:AF:12:LEU:HD11	16:AQ:57:ARG:HG3	1.94	0.48
17:AR:36:ILE:O	17:AR:40:SER:OG	2.20	0.48
18:AS:53:VAL:HG23	18:AS:54:GLU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:85:MET:CA	22:AW:88:VAL:HG23	2.39	0.48
50:B3:65:ASP:O	50:B3:66:SER:C	2.49	0.48
53:B6:34:ARG:NH2	53:B6:42:LEU:HD23	2.28	0.48
55:B8:9:ARG:O	55:B8:10:ILE:HG13	2.12	0.48
24:BA:1011:G:O2'	24:BA:1013:C:C4'	2.60	0.48
24:BA:1067:A:OP2	24:BA:1068:G:OP2	2.31	0.48
24:BA:1132:A:H2'	24:BA:1133:U:O2	2.12	0.48
24:BA:1197:G:C6	24:BA:1198:U:C5	3.01	0.48
24:BA:1202:C:C2'	24:BA:1203:G:H4'	2.37	0.48
24:BA:1310:G:N7	24:BA:1311:G:C2	2.81	0.48
24:BA:1368:G:O6	50:B3:2:LYS:NZ	2.45	0.48
24:BA:149:A:C8	24:BA:150:C:N1	2.81	0.48
24:BA:1620:G:C2	24:BA:1621:U:C2	3.01	0.48
24:BA:1754:C:C2	24:BA:1755:A:C8	3.00	0.48
24:BA:1775:U:C1'	27:BD:208:LYS:NZ	2.76	0.48
24:BA:1806:C:C2	24:BA:1807:G:H8	2.31	0.48
24:BA:1812:A:C5	24:BA:1813:G:C8	3.01	0.48
24:BA:1853:A:H2'	24:BA:1854:A:O4'	2.13	0.48
24:BA:1889:A:C2	24:BA:2234:G:H1'	2.47	0.48
24:BA:2080:G:C2'	24:BA:2081:C:O5'	2.60	0.48
24:BA:2081:C:C2	24:BA:2082:A:H8	2.29	0.48
24:BA:2094:G:C5	24:BA:2095:C:C4	3.01	0.48
24:BA:2257:U:OP1	47:BZ:11:ARG:NH2	2.45	0.48
24:BA:2259:G:C5	24:BA:2260:C:C5	3.01	0.48
24:BA:2305:A:H3'	24:BA:2306:C:C5'	2.43	0.48
24:BA:2377:A:C2	24:BA:2378:A:C8	3.01	0.48
24:BA:411:G:C2	24:BA:2407:G:C5	3.01	0.48
24:BA:410:G:O3'	24:BA:2407:G:OP2	2.29	0.48
24:BA:2420:C:H5''	54:B7:35:GLN:NE2	2.25	0.48
24:BA:2562:U:H2'	24:BA:2563:U:H5'	1.94	0.48
24:BA:2593:U:OP2	24:BA:2593:U:C6	2.63	0.48
24:BA:2600:A:O2'	24:BA:2601:C:H5'	2.13	0.48
24:BA:2638:G:O2'	24:BA:2639:A:C8	2.65	0.48
24:BA:2645:G:H8	24:BA:2645:G:H5''	1.78	0.48
24:BA:527:C:N4	24:BA:2780:G:OP1	2.42	0.48
24:BA:2791:C:N4	24:BA:2807:G:N7	2.61	0.48
24:BA:2818:G:H4'	24:BA:2837:G:C4'	2.43	0.48
24:BA:2850:A:C2'	24:BA:2851:A:O5'	2.61	0.48
24:BA:2866:U:O2	24:BA:2868:A:C1'	2.60	0.48
24:BA:323:G:H2'	29:BF:170:LEU:CG	2.43	0.48
24:BA:332:A:C8	24:BA:335:C:C4	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:348:G:C2	24:BA:349:G:N7	2.81	0.48
24:BA:352:G:C2	24:BA:353:G:H1'	2.48	0.48
24:BA:483:A:H2'	24:BA:484:C:H5'	1.95	0.48
24:BA:556:G:P	24:BA:556:G:H8	2.35	0.48
24:BA:566:U:H3'	24:BA:567:A:H8	1.77	0.48
24:BA:588:U:C4	24:BA:589:C:N4	2.81	0.48
24:BA:591:C:C2	24:BA:592:G:C8	3.01	0.48
24:BA:697:C:O2'	24:BA:698:C:O4'	2.25	0.48
24:BA:780:G:H2'	24:BA:782:A:C5	2.47	0.48
24:BA:193:U:H4'	24:BA:803:U:H5'	1.95	0.48
24:BA:820:A:C2	24:BA:943:U:O2'	2.62	0.48
24:BA:833:U:H1'	36:BO:48:PRO:HB2	1.95	0.48
24:BA:92:G:O2'	24:BA:93:C:H5'	2.13	0.48
24:BA:942:G:C6	24:BA:943:U:C4	3.01	0.48
24:BA:973:A:H1'	24:BA:1188:U:C4	2.45	0.48
25:BB:103:U:C3'	25:BB:104:A:H5'	2.42	0.48
25:BB:2:C:H2'	25:BB:3:C:O5'	2.13	0.48
25:BB:77:U:C6	25:BB:77:U:C3'	2.95	0.48
27:BD:77:ALA:O	27:BD:116:GLN:HA	2.13	0.48
27:BD:133:LEU:HG	27:BD:187:GLY:O	2.12	0.48
24:BA:1775:U:O4'	27:BD:208:LYS:NZ	2.45	0.48
27:BD:176:ARG:HH12	27:BD:270:ILE:HD12	1.78	0.48
24:BA:1824:G:OP1	27:BD:53:PHE:CZ	2.66	0.48
27:BD:63:ARG:CG	27:BD:65:ILE:HG12	2.43	0.48
24:BA:2680:C:H5''	28:BE:188:VAL:O	2.13	0.48
28:BE:40:GLU:OE2	28:BE:41:LYS:HE2	2.13	0.48
28:BE:91:VAL:HG22	28:BE:92:THR:N	2.28	0.48
28:BE:93:VAL:O	28:BE:94:GLU:HG2	2.13	0.48
29:BF:163:VAL:HG11	29:BF:195:ASP:OD2	2.13	0.48
30:BG:179:PRO:O	30:BG:181:ARG:NH2	2.45	0.48
30:BG:72:ARG:HA	30:BG:88:ILE:HD11	1.95	0.48
30:BG:8:LYS:O	30:BG:9:ARG:C	2.51	0.48
31:BH:11:VAL:HG13	31:BH:15:VAL:HG11	1.95	0.48
34:BM:9:VAL:O	34:BM:11:PRO:HD3	2.13	0.48
35:BN:78:ARG:H	35:BN:78:ARG:HD2	1.78	0.48
24:BA:1667:G:OP1	35:BN:7:TYR:CD1	2.66	0.48
35:BN:97:ARG:C	35:BN:97:ARG:CD	2.80	0.48
36:BO:72:PRO:HB3	36:BO:110:TYR:O	2.13	0.48
37:BP:51:ARG:HD3	37:BP:52:VAL:CG2	2.43	0.48
40:BS:99:LEU:O	40:BS:102:ILE:HG23	2.13	0.48
40:BS:51:ARG:HH12	40:BS:114:LEU:CD1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:515:A:H5''	41:BT:32:PHE:HZ	1.72	0.48
42:BU:40:LEU:HG	42:BU:55:ALA:H	1.68	0.48
42:BU:52:VAL:O	42:BU:55:ALA:N	2.46	0.48
42:BU:5:VAL:N	42:BU:12:TYR:CD2	2.65	0.48
44:BW:47:PHE:HE2	44:BW:89:ILE:CA	2.08	0.48
45:BX:96:ILE:HB	45:BX:102:CYS:O	2.13	0.48
45:BX:97:ARG:CZ	45:BX:101:LYS:CG	2.90	0.48
32:BK:77:LEU:CD1	32:BK:142:VAL:HG22	2.43	0.48
3:AD:56:C:N1	24:BA:2169:A:H1'	2.28	0.48
26:BC:161:ILE:CG1	26:BC:161:ILE:O	2.61	0.48
26:BC:21:THR:CG2	26:BC:225:ASN:HD22	2.26	0.48
48:B1:2:ARG:HA	48:B1:5:LEU:CD1	2.28	0.48
24:BA:1578:U:O2'	24:BA:1579:A:H5'	2.13	0.48
33:BL:45:THR:CG2	33:BL:53:VAL:HG11	2.41	0.48
39:BR:59:LYS:N	39:BR:59:LYS:HD3	2.26	0.48
24:BA:1563:G:C6	24:BA:1564:C:N4	2.81	0.48
1:AA:30:U:O2'	1:AA:31:G:P	2.71	0.48
2:A1:34:U:C3'	2:A1:34:U:C6	2.96	0.48
1:AA:1025:U:OP1	1:AA:1025:U:H4'	2.13	0.48
1:AA:1104:G:H2'	1:AA:1105:A:O4'	2.13	0.48
1:AA:115:G:O2'	1:AA:116:A:N7	2.47	0.48
1:AA:1227:A:H4'	15:AP:115:LYS:HZ1	1.78	0.48
1:AA:124:G:N2	1:AA:238:G:H1'	2.28	0.48
1:AA:1300:G:C2'	1:AA:1301:U:OP2	2.61	0.48
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.48	0.48
1:AA:1494:G:N3	1:AA:1495:U:C4	2.81	0.48
1:AA:1498:U:H2'	1:AA:1498:U:O2	2.13	0.48
1:AA:151:A:C5	1:AA:152:A:N3	2.80	0.48
1:AA:198:G:C2'	1:AA:199:G:O5'	2.61	0.48
1:AA:242:C:C2	1:AA:285:G:N2	2.81	0.48
1:AA:262:A:C2	1:AA:263:A:C6	3.01	0.48
1:AA:287:U:C2'	1:AA:288:A:H5'	2.42	0.48
1:AA:323:U:H3'	1:AA:323:U:C6	2.47	0.48
1:AA:424:G:C4	1:AA:425:G:C8	3.00	0.48
1:AA:445:G:H2'	1:AA:446:G:H8	1.77	0.48
1:AA:543:C:C2	1:AA:544:G:N7	2.81	0.48
1:AA:685:G:H2'	1:AA:686:U:H6	1.76	0.48
1:AA:68:G:H5'	1:AA:171:A:H1'	1.95	0.48
1:AA:784:C:H2'	1:AA:785:G:O4'	2.13	0.48
1:AA:874:G:N1	1:AA:875:C:C4	2.81	0.48
1:AA:937:A:C2	1:AA:1379:G:C6	3.00	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:949:A:H4'	1:AA:1364:U:O4	2.13	0.48
1:AA:973:G:N2	1:AA:974:A:H62	2.07	0.48
4:AE:163:PHE:CZ	4:AE:186:ALA:C	2.86	0.48
4:AE:169:LYS:HE2	4:AE:170:GLU:HA	1.95	0.48
4:AE:102:LEU:CB	4:AE:176:GLU:OE1	2.52	0.48
4:AE:178:ARG:HE	4:AE:196:LEU:CD1	2.11	0.48
4:AE:181:PHE:HE1	10:AK:70:GLN:NE2	2.11	0.48
4:AE:207:ALA:O	4:AE:209:ARG:N	2.46	0.48
4:AE:59:GLU:CA	4:AE:221:LEU:HD21	2.43	0.48
4:AE:58:ILE:O	4:AE:59:GLU:C	2.51	0.48
4:AE:69:LEU:CD2	4:AE:91:PRO:CB	2.90	0.48
4:AE:82:ARG:CD	4:AE:92:TYR:OH	2.54	0.48
5:AF:11:ARG:HG3	5:AF:16:ARG:CZ	2.43	0.48
5:AF:10:PHE:CD1	5:AF:178:LEU:HD22	2.35	0.48
5:AF:25:GLY:N	5:AF:28:GLN:NE2	2.61	0.48
6:AG:144:ASP:O	6:AG:184:LYS:HA	2.13	0.48
6:AG:193:ASP:O	6:AG:194:LEU:HD13	2.13	0.48
7:AH:37:ARG:O	7:AH:38:GLN:HG3	2.13	0.48
7:AH:77:PRO:HG2	7:AH:78:HIS:CD2	2.48	0.48
9:AJ:10:ARG:CB	9:AJ:10:ARG:NH1	2.76	0.48
9:AJ:15:ASP:CB	9:AJ:20:ASP:H	2.25	0.48
10:AK:102:ARG:NH1	10:AK:102:ARG:CB	2.76	0.48
10:AK:126:LYS:HZ1	10:AK:127:LEU:CB	2.27	0.48
10:AK:24:THR:HG23	10:AK:24:THR:O	2.12	0.48
11:AL:116:LYS:N	11:AL:116:LYS:HD3	2.27	0.48
11:AL:85:LEU:HD11	11:AL:92:TYR:CE1	2.48	0.48
12:AM:60:ARG:CA	12:AM:60:ARG:NH1	2.76	0.48
13:AN:42:TRP:CE3	13:AN:43:SER:N	2.81	0.48
13:AN:45:GLY:CA	13:AN:55:LYS:HB3	2.41	0.48
14:AO:47:LYS:H	14:AO:48:PRO:HD3	1.76	0.48
15:AP:15:VAL:CG1	15:AP:34:LEU:HD21	2.43	0.48
17:AR:66:LEU:N	17:AR:66:LEU:CD2	2.75	0.48
48:B1:32:PHE:HB2	48:B1:33:GLN:NE2	2.28	0.48
49:B2:6:VAL:HA	49:B2:55:ARG:O	2.12	0.48
51:B4:58:LEU:HD13	51:B4:59:GLU:N	2.29	0.48
52:B5:21:TYR:CD2	52:B5:21:TYR:O	2.66	0.48
53:B6:10:ARG:HG2	53:B6:14:LYS:HE3	1.95	0.48
24:BA:1011:G:H2'	24:BA:1013:C:H5''	1.95	0.48
24:BA:1011:G:H5'	24:BA:1012:U:OP2	2.13	0.48
24:BA:1050:A:C2'	24:BA:1051:G:C5'	2.91	0.48
24:BA:1057:A:H61	24:BA:1086:A:H2	1.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1148:A:N6	24:BA:1149:G:O6	2.46	0.48
24:BA:1161:C:O2'	24:BA:1162:G:H5'	2.14	0.48
24:BA:974:G:H1'	24:BA:1186:G:C5	2.48	0.48
24:BA:1189:A:C3'	24:BA:1190:G:H5'	2.43	0.48
24:BA:1314:C:H2'	24:BA:1315:C:H6	1.78	0.48
24:BA:1351:C:N4	24:BA:1381:G:C6	2.81	0.48
24:BA:1429:G:C3'	24:BA:1430:C:H6	2.23	0.48
24:BA:1537:C:C2'	24:BA:1538:G:H5'	2.41	0.48
24:BA:1540:G:C3'	24:BA:1541:U:H5'	2.41	0.48
24:BA:1542:G:C2'	24:BA:1543:A:C5	2.96	0.48
24:BA:1718:G:N2	24:BA:1742:C:C2	2.66	0.48
24:BA:1747:G:H2'	24:BA:1748:G:H8	1.77	0.48
24:BA:184:C:N3	24:BA:213:A:N6	2.62	0.48
24:BA:1903:G:N3	24:BA:1904:G:C8	2.81	0.48
24:BA:1997:G:N1	24:BA:1998:G:C5	2.81	0.48
24:BA:1853:A:C1'	24:BA:2234:G:H5'	2.44	0.48
24:BA:2270:G:H2'	24:BA:2271:G:O4'	2.13	0.48
24:BA:2307:G:N9	24:BA:2308:G:H1'	2.27	0.48
24:BA:2373:G:C5	24:BA:2374:C:N4	2.81	0.48
24:BA:2377:A:C2	24:BA:2378:A:N7	2.81	0.48
24:BA:2457:U:C2'	24:BA:2458:G:H5'	2.43	0.48
24:BA:250:G:C2'	24:BA:251:A:O5'	2.61	0.48
24:BA:2573:C:P	24:BA:2574:G:OP1	2.71	0.48
24:BA:2576:G:O2'	24:BA:2612:C:N4	2.46	0.48
24:BA:2631:G:C6	24:BA:2632:A:C8	3.01	0.48
24:BA:2740:A:C4	24:BA:2741:A:N7	2.82	0.48
24:BA:2625:G:N1	24:BA:2777:G:N2	2.61	0.48
24:BA:2831:G:OP2	28:BE:57:LYS:HD3	2.13	0.48
24:BA:2692:C:H1'	24:BA:2847:U:O2'	2.12	0.48
24:BA:2858:C:C5'	24:BA:2859:G:OP2	2.61	0.48
24:BA:285:C:H2'	24:BA:286:C:H6	1.78	0.48
24:BA:2893:G:H1'	24:BA:2894:G:H8	1.77	0.48
24:BA:2897:U:H2'	24:BA:2898:U:C6	2.48	0.48
24:BA:307:G:H21	24:BA:330:A:N6	2.12	0.48
24:BA:344:G:H3'	24:BA:344:G:C8	2.48	0.48
24:BA:350:U:H2'	24:BA:351:G:OP1	2.13	0.48
24:BA:401:A:C4	24:BA:402:A:C8	3.00	0.48
24:BA:403:U:H4'	24:BA:404:C:OP1	2.11	0.48
24:BA:415:A:C2	24:BA:416:C:H1'	2.47	0.48
24:BA:476:G:O4'	24:BA:505:A:C2	2.65	0.48
24:BA:621:A:H8	24:BA:622:G:H5'	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:685:A:H5''	24:BA:686:G:H22	1.70	0.48
24:BA:71:A:C3'	24:BA:72:U:H5''	2.40	0.48
24:BA:743:G:N1	24:BA:755:C:C4	2.81	0.48
24:BA:684:G:N1	24:BA:775:G:C5	2.81	0.48
24:BA:908:C:C2'	24:BA:909:A:O5'	2.61	0.48
27:BD:117:VAL:C	27:BD:118:VAL:CG2	2.81	0.48
27:BD:16:MET:O	27:BD:17:THR:O	2.30	0.48
24:BA:764:A:N3	27:BD:214:TRP:CD1	2.81	0.48
27:BD:40:THR:HG21	27:BD:43:ARG:HE	1.76	0.48
27:BD:91:ARG:NH2	27:BD:198:ASN:CG	2.66	0.48
28:BE:108:SER:OG	28:BE:163:GLU:O	2.31	0.48
28:BE:60:ASN:O	28:BE:63:LEU:N	2.46	0.48
29:BF:104:LYS:O	29:BF:108:LYS:CE	2.57	0.48
29:BF:110:LEU:HG	29:BF:183:VAL:N	2.28	0.48
24:BA:675:A:C5'	29:BF:67:GLN:NE2	2.76	0.48
24:BA:588:U:O4'	29:BF:90:PHE:CD1	2.66	0.48
30:BG:135:LEU:HD13	30:BG:137:GLU:H	1.77	0.48
30:BG:4:ASP:HB3	30:BG:104:GLU:CG	2.43	0.48
30:BG:9:ARG:HH11	30:BG:9:ARG:CG	2.25	0.48
31:BH:13:LYS:HD2	31:BH:15:VAL:HA	1.95	0.48
33:BL:131:ALA:HB1	33:BL:136:VAL:HG12	1.94	0.48
34:BM:109:LYS:HA	34:BM:109:LYS:HZ2	1.78	0.48
34:BM:30:ILE:O	34:BM:31:ALA:O	2.31	0.48
35:BN:106:LEU:HD12	35:BN:107:ARG:CA	2.42	0.48
35:BN:81:ASP:C	35:BN:82:ASN:OD1	2.51	0.48
36:BO:123:LEU:HD12	36:BO:130:PHE:CZ	2.48	0.48
36:BO:55:ARG:NH2	36:BO:55:ARG:CB	2.68	0.48
36:BO:86:LYS:NZ	36:BO:91:PHE:CE2	2.82	0.48
37:BP:37:LEU:CD1	37:BP:130:LYS:HB2	2.37	0.48
37:BP:59:ARG:O	37:BP:60:ARG:HD2	2.12	0.48
37:BP:85:LYS:HE3	37:BP:88:GLY:HA3	1.95	0.48
24:BA:1277:G:HO2'	38:BQ:24:GLN:HG2	1.78	0.48
38:BQ:61:HIS:CE1	38:BQ:64:ARG:NH2	2.81	0.48
39:BR:30:ARG:HD2	39:BR:91:PRO:CB	2.43	0.48
25:BB:48:A:OP1	39:BR:92:TYR:CD2	2.66	0.48
40:BS:50:ILE:CG2	40:BS:68:TYR:HB2	2.44	0.48
40:BS:85:LYS:HG3	40:BS:88:ILE:HG12	1.95	0.48
41:BT:39:LEU:O	41:BT:42:ALA:N	2.46	0.48
42:BU:43:GLU:O	42:BU:44:LYS:CD	2.52	0.48
42:BU:88:ARG:CG	42:BU:89:GLN:N	2.76	0.48
44:BW:47:PHE:O	44:BW:48:LYS:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:297:C:C5'	45:BX:83:THR:HG21	2.43	0.48
47:BZ:27:GLU:N	47:BZ:69:PHE:CZ	2.81	0.48
24:BA:2352:A:H2	47:BZ:33:ALA:O	1.96	0.48
24:BA:2254:C:O2	47:BZ:7:LEU:HD11	2.13	0.48
3:AD:50:U:C4	3:AD:65:G:N1	2.82	0.48
24:BA:2110:G:C5	24:BA:2120:G:C8	3.00	0.48
26:BC:162:GLU:CG	26:BC:163:PHE:N	2.67	0.48
26:BC:19:ILE:HG23	26:BC:223:ARG:HB3	1.95	0.48
26:BC:211:SER:HA	26:BC:223:ARG:HE	1.78	0.48
26:BC:52:ARG:HG3	26:BC:53:ARG:CG	2.42	0.48
18:AS:68:ASP:O	18:AS:69:THR:C	2.49	0.48
1:AA:1031:G:C6	1:AA:1032:A:C6	3.01	0.48
26:BC:194:ARG:NH1	26:BC:194:ARG:HG3	2.27	0.48
27:BD:38:LYS:HD2	27:BD:38:LYS:H	1.78	0.48
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.75	0.48
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.14	0.48
1:AA:1492:A:O3'	1:AA:1493:A:O4'	2.30	0.48
1:AA:20:U:H5	1:AA:916:G:H1	1.61	0.48
1:AA:264:U:O2	1:AA:265:G:O4'	2.31	0.48
1:AA:247:G:N2	1:AA:282:A:C2	2.77	0.48
1:AA:328:C:O2'	1:AA:329:A:OP2	2.31	0.48
1:AA:467:G:C2	1:AA:468:A:C5	3.01	0.48
1:AA:526:C:N4	1:AA:535:A:H2	2.07	0.48
1:AA:552:U:H4'	14:AO:87:GLY:O	2.13	0.48
1:AA:579:G:C4	1:AA:580:U:C5	3.01	0.48
1:AA:628:G:C2'	1:AA:629:G:H8	2.21	0.48
1:AA:654:G:H1	1:AA:754:C:N4	2.12	0.48
1:AA:690:G:H3'	1:AA:691:G:C8	2.48	0.48
1:AA:714:G:O2'	1:AA:777:A:N6	2.46	0.48
1:AA:818:G:N2	1:AA:820:U:C2	2.82	0.48
1:AA:843:U:H3'	1:AA:848:C:C4'	2.44	0.48
1:AA:872:A:N1	1:AA:874:G:C6	2.80	0.48
1:AA:572:A:C2	1:AA:916:G:N2	2.81	0.48
3:AC:36:A:C6	3:AC:37:A:N7	2.81	0.48
3:AD:4:C:N3	3:AD:70:G:N1	2.61	0.48
4:AE:124:SER:C	4:AE:126:GLU:N	2.67	0.48
4:AE:170:GLU:C	4:AE:174:VAL:HG23	2.34	0.48
4:AE:213:LEU:HD23	4:AE:217:ARG:HD3	1.95	0.48
5:AF:124:ILE:HG23	5:AF:130:VAL:CG2	2.43	0.48
5:AF:176:HIS:O	5:AF:178:LEU:N	2.46	0.48
5:AF:29:TYR:C	5:AF:29:TYR:HD2	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:106:TYR:CE2	6:AG:113:SER:HA	2.48	0.48
6:AG:54:TYR:CE2	6:AG:58:LEU:HB2	2.47	0.48
7:AH:109:ILE:HD13	7:AH:135:THR:HG21	1.91	0.48
9:AJ:5:ARG:CB	9:AJ:5:ARG:HH11	2.26	0.48
10:AK:15:ASN:HD22	10:AK:15:ASN:H	1.61	0.48
10:AK:92:ARG:HG2	10:AK:92:ARG:NH1	2.24	0.48
11:AL:50:LEU:HD11	11:AL:56:LEU:CA	2.23	0.48
13:AN:85:ARG:CZ	13:AN:111:ASP:OD2	2.61	0.48
1:AA:1524:C:H5''	13:AN:120:ARG:HH22	1.78	0.48
13:AN:29:ILE:HG22	13:AN:44:SER:OG	2.13	0.48
13:AN:67:ASP:O	13:AN:68:ALA:C	2.50	0.48
14:AO:24:VAL:HG13	14:AO:26:ALA:H	1.77	0.48
14:AO:28:LYS:CE	14:AO:33:ARG:HH12	2.19	0.48
15:AP:2:ALA:O	15:AP:8:GLU:O	2.31	0.48
15:AP:81:LEU:HD21	15:AP:88:ARG:NH2	2.28	0.48
1:AA:392:G:C4'	18:AS:12:LYS:HZ3	2.26	0.48
1:AA:136:C:H4'	18:AS:65:GLN:NE2	2.29	0.48
18:AS:9:PHE:CE1	18:AS:18:ARG:HG3	2.47	0.48
13:AN:110:ASP:OD2	20:AU:88:LYS:HD2	2.13	0.48
21:AV:16:LEU:CD1	21:AV:44:MET:HE1	2.35	0.48
24:BA:850:C:H5''	49:B2:18:ASP:CB	2.43	0.48
49:B2:50:VAL:HG13	49:B2:53:LEU:CB	2.42	0.48
50:B3:47:GLN:CA	50:B3:52:THR:HG21	2.37	0.48
52:B5:17:LYS:HE2	52:B5:49:HIS:O	2.12	0.48
24:BA:464:U:C1'	53:B6:12:ARG:NH2	2.76	0.48
54:B7:61:LEU:O	54:B7:62:LEU:HD23	2.13	0.48
24:BA:1005:C:H2'	24:BA:1006:C:C6	2.27	0.48
24:BA:1022:G:C3'	24:BA:1025:G:O6	2.61	0.48
24:BA:1024:G:O6	24:BA:1134:G:H1'	2.14	0.48
24:BA:107:C:H2'	24:BA:108:U:C6	2.48	0.48
24:BA:1029:A:N6	24:BA:1125:G:C2	2.81	0.48
24:BA:1223:C:O2	24:BA:1223:C:H2'	2.13	0.48
24:BA:1256:G:O2'	24:BA:1257:C:H5'	2.13	0.48
24:BA:1257:C:H2'	24:BA:1258:C:C6	2.48	0.48
24:BA:1364:G:P	24:BA:1364:G:C8	3.06	0.48
24:BA:1426:G:H3'	24:BA:1427:A:H5''	1.95	0.48
24:BA:1439:A:N7	24:BA:1440:G:N9	2.61	0.48
24:BA:1451:C:H2'	24:BA:1451:C:O2	2.13	0.48
24:BA:147:U:N3	24:BA:148:C:N4	2.60	0.48
24:BA:1449:A:OP1	24:BA:1543:A:C2	2.66	0.48
24:BA:1643:G:N2	24:BA:1644:C:H1'	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1742:C:C2'	24:BA:1743:G:H4'	2.38	0.48
24:BA:1746:G:P	24:BA:1746:G:H3'	2.54	0.48
24:BA:1753:G:C3'	24:BA:1753:G:C8	2.95	0.48
24:BA:1797:C:N3	24:BA:1798:U:O4	2.47	0.48
24:BA:1815:A:N3	24:BA:1817:G:C6	2.81	0.48
3:AD:4:C:O4'	24:BA:1851:U:OP1	2.31	0.48
24:BA:1869:G:N3	24:BA:1878:G:O6	2.47	0.48
24:BA:1970:A:HO2'	24:BA:1971:A:P	2.35	0.48
24:BA:2048:G:N1	24:BA:2049:G:C5	2.81	0.48
24:BA:2199:A:H8	24:BA:2199:A:O5'	1.89	0.48
24:BA:20:C:HO2'	24:BA:21:A:H5'	1.75	0.48
24:BA:2213:U:C2	24:BA:2213:U:H3'	2.48	0.48
24:BA:2245:U:C2	24:BA:2435:A:C8	3.01	0.48
24:BA:2252:G:N7	24:BA:2253:G:C5	2.81	0.48
24:BA:858:U:C2'	24:BA:2268:A:C8	2.92	0.48
24:BA:2275:C:O2'	24:BA:2276:G:OP2	2.25	0.48
24:BA:2341:G:C2'	24:BA:2342:C:C6	2.89	0.48
24:BA:2405:G:C2'	24:BA:2406:U:OP2	2.60	0.48
24:BA:2414:G:C2	24:BA:2415:G:C8	3.01	0.48
24:BA:2486:G:N2	24:BA:2487:G:C4	2.81	0.48
24:BA:2512:C:C3'	24:BA:2512:C:C6	2.97	0.48
24:BA:1782:C:C2	24:BA:2609:U:C6	3.01	0.48
24:BA:270(J):G:N1	24:BA:270(K):C:C2	2.82	0.48
24:BA:2799:A:H5''	24:BA:2801:A:OP2	2.14	0.48
24:BA:279:C:N4	24:BA:359:A:C1'	2.67	0.48
24:BA:2801:A:OP1	24:BA:2802:G:P	2.71	0.48
24:BA:2706:G:H5'	24:BA:2852:G:P	2.53	0.48
24:BA:389:G:OP1	24:BA:389:G:H8	1.94	0.48
24:BA:410:G:C3'	24:BA:411:G:C8	2.96	0.48
24:BA:631:A:C2	24:BA:2416:C:O4'	2.66	0.48
24:BA:720:C:O2'	24:BA:721:C:C5'	2.61	0.48
24:BA:742:G:O2'	24:BA:743:G:H5'	2.13	0.48
24:BA:800:A:O2'	24:BA:801:G:O5'	2.31	0.48
24:BA:878:A:C2'	24:BA:879:G:H8	2.26	0.48
24:BA:885:C:N4	24:BA:889:C:H6	2.10	0.48
24:BA:8:A:H5''	34:BM:51:PHE:HE2	1.76	0.48
24:BA:909:A:O2'	24:BA:911:A:OP2	2.28	0.48
24:BA:569:U:C5'	24:BA:946:G:H1'	2.33	0.48
24:BA:954:G:O2'	24:BA:955:C:H5'	2.13	0.48
24:BA:980:A:N6	24:BA:1135:C:H4'	2.28	0.48
24:BA:987:G:OP1	49:B2:13:ILE:CG2	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:127:VAL:HG22	27:BD:194:GLY:HA2	1.94	0.48
27:BD:167:GLY:C	27:BD:174:ILE:HD13	2.33	0.48
27:BD:21:PHE:O	27:BD:205:VAL:HG13	2.14	0.48
27:BD:264:LYS:O	27:BD:265:PRO:C	2.49	0.48
27:BD:46:GLN:HE22	27:BD:51:VAL:HG23	1.78	0.48
24:BA:2053:G:O4'	28:BE:149:ARG:HA	2.13	0.48
28:BE:47:VAL:HA	28:BE:48:GLN:HE22	1.76	0.48
29:BF:9:ILE:CG2	29:BF:10:PRO:N	2.77	0.48
31:BH:27:LYS:HZ2	31:BH:32:GLU:HB2	1.77	0.48
33:BL:104:VAL:HG13	33:BL:127:ILE:CB	2.40	0.48
34:BM:4:TYR:HB3	41:BT:64:ARG:NH2	2.28	0.48
35:BN:99:PHE:HA	35:BN:122:LEU:O	2.14	0.48
24:BA:603:A:H5''	36:BO:100:LEU:HD21	1.96	0.48
36:BO:60:MET:SD	36:BO:60:MET:N	2.86	0.48
37:BP:42:ILE:HD13	37:BP:43:THR:O	2.13	0.48
38:BQ:33:ARG:CB	38:BQ:113:LEU:HD11	2.34	0.48
38:BQ:54:LEU:CD1	38:BQ:54:LEU:H	2.27	0.48
38:BQ:74:LYS:N	38:BQ:77:ARG:NH2	2.61	0.48
39:BR:97:ARG:CG	39:BR:97:ARG:HH21	2.23	0.48
40:BS:80:SER:HB3	40:BS:81:PRO:CD	2.40	0.48
42:BU:13:ARG:C	42:BU:14:VAL:CG2	2.82	0.48
42:BU:20:LEU:CD1	42:BU:68:LYS:HZ3	2.09	0.48
43:BV:21:VAL:CG2	43:BV:75:TYR:HD2	2.25	0.48
43:BV:34:ASN:CG	43:BV:37:ARG:HH11	2.17	0.48
46:BY:45:ASP:HA	46:BY:48:PHE:HD1	1.79	0.48
46:BY:59:LEU:HD23	46:BY:60:GLU:N	2.27	0.48
32:BK:132:PRO:HD2	32:BK:138:ILE:H	1.77	0.48
32:BK:125:GLU:HA	32:BK:143:SER:HA	1.95	0.48
3:AD:18:G:H21	3:AD:58:A:H5'	1.72	0.48
3:AD:9:A:N6	3:AD:23:A:H62	1.98	0.48
24:BA:2168:G:C2'	24:BA:2170:A:OP2	2.61	0.48
26:BC:181:PRO:CD	26:BC:184:LYS:HD2	2.35	0.48
26:BC:200:LYS:HZ2	26:BC:204:ALA:HB3	1.76	0.48
26:BC:32:LEU:HB3	26:BC:220:PRO:CG	2.24	0.48
26:BC:47:LEU:HA	26:BC:208:PHE:O	2.14	0.48
1:AA:345:C:H5'	1:AA:346:G:C4	2.48	0.48
1:AA:1057:G:H2'	1:AA:1058:G:O5'	2.14	0.48
1:AA:1067:A:C2	1:AA:1068:G:H1'	2.47	0.48
1:AA:1087:G:N2	1:AA:1099:G:C4	2.82	0.48
1:AA:1094:G:C2'	1:AA:1108:G:H22	2.27	0.48
1:AA:1148:U:O2	1:AA:1149:C:O4'	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1158:C:C4	1:AA:1160:G:C1'	2.90	0.48
1:AA:1191:A:O5'	5:AF:4:LYS:NZ	2.46	0.48
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.47	0.48
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.13	0.48
1:AA:1377:A:O2'	1:AA:1378:C:P	2.71	0.48
1:AA:1405:G:C2	1:AA:1406:U:C5	3.01	0.48
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.13	0.48
1:AA:1492:A:C6	14:AO:50:SER:HB2	2.48	0.48
1:AA:117:G:O6	1:AA:289:G:O4'	2.30	0.48
1:AA:41:G:N3	1:AA:42:G:C8	2.81	0.48
1:AA:556:C:C2'	1:AA:557:G:H5'	2.43	0.48
1:AA:566:G:H4'	1:AA:567:G:C5'	2.43	0.48
1:AA:593:G:H2'	1:AA:594:G:O4'	2.13	0.48
1:AA:826:C:C2	1:AA:827:U:C5	3.01	0.48
1:AA:821:G:O6	1:AA:880:C:N4	2.46	0.48
3:AB:18:G:H2'	3:AB:57:G:H1	1.77	0.48
3:AB:32:U:H2'	3:AB:33:U:C6	2.49	0.48
3:AB:61:C:H2'	3:AB:62:C:C5	2.48	0.48
3:AC:18:G:N2	3:AC:58:A:C4	2.80	0.48
4:AE:131:PRO:O	4:AE:134:GLU:CB	2.61	0.48
5:AF:114:PRO:HD3	5:AF:183:ASP:CG	2.34	0.48
5:AF:39:ILE:CG2	5:AF:40:ARG:N	2.72	0.48
6:AG:14:ARG:CZ	6:AG:14:ARG:O	2.62	0.48
6:AG:54:TYR:O	6:AG:56:VAL:N	2.46	0.48
6:AG:79:PHE:HA	6:AG:93:PHE:CD1	2.49	0.48
8:AI:53:ALA:O	8:AI:55:ASP:OD1	2.31	0.48
8:AI:34:GLY:HA3	8:AI:68:PRO:CG	2.44	0.48
9:AJ:113:GLU:CB	9:AJ:118:VAL:CG1	2.91	0.48
10:AK:114:THR:OG1	10:AK:119:LEU:CD2	2.61	0.48
1:AA:1148:U:C4'	11:AL:16:ARG:HD2	2.43	0.48
12:AM:10:GLY:HA3	12:AM:16:LEU:CD2	2.42	0.48
12:AM:49:VAL:HG11	16:AQ:45:ARG:HD2	1.93	0.48
15:AP:13:LYS:CG	15:AP:17:VAL:HG11	2.43	0.48
15:AP:95:GLY:O	15:AP:110:ARG:HD2	2.13	0.48
12:AM:63:PHE:HA	16:AQ:59:ALA:N	2.28	0.48
19:AT:32:TYR:O	19:AT:34:LYS:N	2.46	0.48
20:AU:25:THR:HG22	20:AU:42:ARG:CZ	2.43	0.48
48:B1:27:LEU:H	48:B1:27:LEU:HD12	1.78	0.48
49:B2:11:SER:N	49:B2:12:PRO:CD	2.76	0.48
49:B2:23:LEU:HA	49:B2:26:LEU:CD2	2.43	0.48
49:B2:38:GLU:O	49:B2:40:THR:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:22:MET:CA	53:B6:28:ARG:HG2	2.42	0.48
55:B8:7:VAL:HG21	55:B8:36:GLN:HE22	1.76	0.48
24:BA:1019:U:C5'	24:BA:1019:U:H6	2.26	0.48
24:BA:1035:U:O3'	31:BH:59:ARG:CZ	2.62	0.48
24:BA:1036:G:H5'	31:BH:59:ARG:HH22	1.78	0.48
24:BA:1071:G:N7	24:BA:1072:C:C5	2.81	0.48
24:BA:1022:G:C5	24:BA:1139:G:N1	2.81	0.48
24:BA:1264:G:C5	24:BA:1265:A:C5	3.01	0.48
24:BA:1277:G:O2'	38:BQ:24:GLN:NE2	2.41	0.48
24:BA:1287:A:OP1	38:BQ:105:ARG:HB2	2.14	0.48
24:BA:1343:G:H2'	24:BA:1384:A:C2	2.48	0.48
24:BA:1348:G:C6	24:BA:1349:A:C6	3.01	0.48
24:BA:1368:G:O6	50:B3:2:LYS:CE	2.60	0.48
24:BA:1458:C:C4'	24:BA:1459:G:C8	2.92	0.48
24:BA:1471:A:N7	24:BA:1519:G:C6	2.81	0.48
24:BA:149:A:H2'	24:BA:150:C:C5'	2.41	0.48
24:BA:1539:G:N7	24:BA:1540:G:C8	2.81	0.48
24:BA:154:G:C2	24:BA:155:C:C4	3.02	0.48
24:BA:1678:G:O5'	24:BA:1678:G:H8	1.96	0.48
24:BA:1690:A:N1	24:BA:1691:C:H1'	2.27	0.48
24:BA:1762:A:H5'	24:BA:1763:G:OP2	2.13	0.48
24:BA:1831:G:H2'	24:BA:1832:C:C6	2.47	0.48
24:BA:1834:U:C4'	24:BA:1834:U:OP1	2.61	0.48
24:BA:1965:C:H5'	24:BA:1966:A:H3'	1.96	0.48
24:BA:199:A:H5'	24:BA:200:U:OP2	2.13	0.48
24:BA:2016:U:C1'	51:B4:6:VAL:HG11	2.43	0.48
24:BA:2026:C:N3	24:BA:2027:G:C8	2.81	0.48
24:BA:2244:U:O4'	24:BA:2434:A:N6	2.47	0.48
24:BA:2258:C:C4	24:BA:2426:A:O4'	2.66	0.48
24:BA:2331:G:C2'	24:BA:2332:U:O4'	2.59	0.48
24:BA:218:A:N1	24:BA:235:U:H4'	2.29	0.48
24:BA:2361:A:OP2	54:B7:47:LYS:NZ	2.34	0.48
24:BA:2460:U:H3'	24:BA:2461:C:C6	2.48	0.48
24:BA:2471:C:H2'	24:BA:2472:G:O5'	2.12	0.48
24:BA:2472:G:C2	24:BA:2475:C:C2	3.02	0.48
24:BA:2487:G:N3	24:BA:2488:A:C8	2.82	0.48
24:BA:2507:C:C4	24:BA:2508:G:N7	2.80	0.48
24:BA:245:G:H21	24:BA:254:G:H1'	1.75	0.48
24:BA:2562:U:N3	24:BA:2563:U:C6	2.82	0.48
24:BA:2690:C:O2'	24:BA:2691:C:O5'	2.30	0.48
24:BA:270(C):C:OP1	24:BA:365:C:C1'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2729:G:C6	24:BA:2730:C:C4	3.00	0.48
24:BA:2848:G:O5'	40:BS:99:LEU:HG	2.13	0.48
24:BA:377:C:H2'	24:BA:378:C:C6	2.47	0.48
24:BA:411:G:N3	24:BA:2408:U:C4	2.81	0.48
24:BA:459:U:H3'	53:B6:40:TRP:CZ3	2.47	0.48
24:BA:463:G:O3'	24:BA:464:U:H5	1.95	0.48
24:BA:500:G:O2'	24:BA:501:A:H3'	2.14	0.48
24:BA:546:C:C2	24:BA:547:A:C6	3.01	0.48
24:BA:600:G:H22	24:BA:604:G:H4'	1.76	0.48
24:BA:656:G:C2'	24:BA:657:U:O5'	2.60	0.48
24:BA:66:C:N4	24:BA:67:U:O4	2.47	0.48
24:BA:671:C:N4	24:BA:672:C:H41	2.11	0.48
24:BA:66:C:C2'	24:BA:67:U:O5'	2.60	0.48
24:BA:729:G:OP1	27:BD:19:ALA:CB	2.60	0.48
24:BA:768:G:H8	24:BA:768:G:O5'	1.96	0.48
24:BA:819:A:N7	24:BA:973:A:C2	2.81	0.48
24:BA:858:U:H4'	24:BA:859:G:OP1	2.12	0.48
24:BA:863:A:C2	24:BA:864:G:C5	3.00	0.48
24:BA:870:A:H2'	24:BA:871:U:O4'	2.13	0.48
24:BA:873:G:C5	24:BA:874:G:C8	3.02	0.48
24:BA:912:C:HO2'	24:BA:913:U:H5'	1.78	0.48
24:BA:947:G:C2	24:BA:948:G:C8	3.01	0.48
25:BB:15:A:C5'	25:BB:16:G:O5'	2.61	0.48
27:BD:109:ASP:O	27:BD:111:LEU:N	2.46	0.48
27:BD:147:LEU:H	27:BD:154:LYS:CG	2.27	0.48
27:BD:166:GLN:O	27:BD:167:GLY:O	2.31	0.48
27:BD:219:PRO:HB2	27:BD:220:HIS:CD2	2.48	0.48
27:BD:5:LYS:HA	27:BD:29:PRO:HD3	1.96	0.48
27:BD:5:LYS:CA	27:BD:28:GLU:HB2	2.43	0.48
27:BD:85:ASP:CB	27:BD:87:ASN:HD21	2.24	0.48
28:BE:119:ARG:CZ	28:BE:155:LYS:HD2	2.42	0.48
28:BE:133:LYS:CD	28:BE:137:HIS:CG	2.90	0.48
28:BE:104:VAL:HG22	28:BE:198:VAL:HA	1.95	0.48
29:BF:35:GLU:HA	29:BF:38:ARG:HD2	1.94	0.48
30:BG:33:ARG:C	30:BG:33:ARG:NH2	2.66	0.48
30:BG:68:PRO:HB3	30:BG:72:ARG:HH12	1.76	0.48
31:BH:131:VAL:O	31:BH:131:VAL:HG12	2.12	0.48
33:BL:51:ALA:HA	33:BL:80:LYS:HG3	1.95	0.48
33:BL:54:PRO:HG3	33:BL:73:PRO:HD3	1.94	0.48
34:BM:33:LEU:HD13	34:BM:34:LEU:CG	2.35	0.48
34:BM:42:TRP:CZ3	41:BT:71:GLN:NE2	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2040:C:H4'	34:BM:72:TYR:HE2	1.79	0.48
35:BN:32:TYR:O	35:BN:34:THR:OG1	2.30	0.48
35:BN:69:VAL:H	35:BN:104:ARG:HH22	1.58	0.48
35:BN:97:ARG:C	35:BN:97:ARG:CZ	2.79	0.48
37:BP:85:LYS:HG3	37:BP:88:GLY:H	1.77	0.48
38:BQ:67:LEU:O	38:BQ:67:LEU:HD22	2.13	0.48
39:BR:49:VAL:CG2	39:BR:50:SER:N	2.76	0.48
40:BS:28:VAL:HG23	40:BS:93:ARG:C	2.34	0.48
41:BT:58:ARG:HH11	41:BT:58:ARG:CG	2.25	0.48
42:BU:15:GLU:OE1	42:BU:16:PRO:HD3	2.13	0.48
42:BU:78:LYS:CA	42:BU:83:ARG:O	2.61	0.48
43:BV:24:ILE:HG21	43:BV:36:LEU:HB2	1.95	0.48
43:BV:36:LEU:HD21	43:BV:48:ALA:N	2.28	0.48
44:BW:23:GLU:C	44:BW:23:GLU:OE1	2.51	0.48
44:BW:73:ARG:HH11	44:BW:73:ARG:CB	2.12	0.48
44:BW:73:ARG:NH1	44:BW:74:PRO:O	2.44	0.48
46:BY:169:GLU:O	46:BY:170:THR:HB	2.13	0.48
46:BY:20:ARG:CG	46:BY:20:ARG:HH11	2.26	0.48
47:BZ:14:ARG:N	47:BZ:14:ARG:HD3	2.29	0.48
47:BZ:1:MET:O	47:BZ:2:ALA:CB	2.61	0.48
47:BZ:50:ASN:O	47:BZ:81:VAL:HG21	2.13	0.48
3:AD:62:C:H5'	26:BC:52:ARG:NH1	2.28	0.48
24:BA:2114:A:H8	24:BA:2114:A:P	2.36	0.48
24:BA:2132:U:H2'	24:BA:2134:A:N7	2.28	0.48
6:AG:47:ARG:NH2	6:AG:48:ALA:O	2.46	0.48
48:B1:1:MET:H1	48:B1:2:ARG:HH12	1.62	0.48
1:AA:342:C:C2	1:AA:343:U:C5	3.02	0.48
1:AA:160:A:H1'	1:AA:344:A:N7	2.29	0.48
24:BA:1578:U:C2'	24:BA:1579:A:O5'	2.61	0.48
15:AP:121:LYS:O	15:AP:122:LYS:HB3	2.13	0.48
24:BA:1414:G:N2	24:BA:1415:U:C2	2.81	0.48
1:AA:1533:C:N4	2:A1:32:U:H3	2.12	0.48
2:A1:37:U:H2'	2:A1:38:U:C4	2.48	0.48
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.29	0.48
1:AA:1109:C:H2'	1:AA:1110:A:H8	1.78	0.48
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.47	0.48
1:AA:1155:G:H2'	1:AA:1156:G:H8	1.78	0.48
1:AA:1240:U:H4'	1:AA:1241:G:OP2	2.12	0.48
1:AA:1150:U:C5'	1:AA:1280:A:C2	2.95	0.48
1:AA:1284:C:C6	1:AA:1285:A:N7	2.81	0.48
1:AA:1500:A:H2'	1:AA:1501:C:H6	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:68:G:C4'	1:AA:171:A:H1'	2.44	0.48
1:AA:294:U:H2'	1:AA:295:C:C6	2.48	0.48
1:AA:48:C:C5	1:AA:364:A:H2	2.32	0.48
1:AA:432:A:C3'	1:AA:432:A:C8	2.97	0.48
1:AA:446:G:H2'	1:AA:447:G:H8	1.79	0.48
1:AA:529:G:C6	14:AO:49:ASN:ND2	2.81	0.48
1:AA:584:G:C2'	1:AA:585:G:O5'	2.62	0.48
1:AA:683:G:H2'	1:AA:684:A:C8	2.48	0.48
1:AA:666:G:H22	1:AA:741:G:H1'	1.78	0.48
1:AA:580:U:O4	1:AA:761:G:O6	2.31	0.48
1:AA:842:C:H5'	1:AA:848:C:O2	2.13	0.48
1:AA:866:C:H6	1:AA:867:G:C1'	2.27	0.48
1:AA:872:A:C4	1:AA:874:G:N7	2.82	0.48
1:AA:890:G:O2'	1:AA:891:U:O5'	2.31	0.48
1:AA:997:U:C6	1:AA:997:U:OP2	2.66	0.48
4:AE:189:ASP:CB	4:AE:205:ASP:HB3	2.40	0.48
4:AE:209:ARG:C	4:AE:209:ARG:HD2	2.33	0.48
4:AE:78:GLN:NE2	4:AE:96:ARG:NH1	2.57	0.48
5:AF:140:ARG:HH11	5:AF:140:ARG:HB3	1.75	0.48
1:AA:1111:A:N1	5:AF:177:THR:HA	2.28	0.48
5:AF:6:HIS:HA	5:AF:7:PRO:HD2	1.77	0.48
6:AG:70:ILE:CD1	6:AG:100:ARG:HH21	2.18	0.48
6:AG:120:LEU:CG	6:AG:121:VAL:N	2.77	0.48
6:AG:118:ARG:HA	6:AG:136:PRO:HB3	1.95	0.48
6:AG:62:GLN:CA	6:AG:62:GLN:HE21	2.26	0.48
6:AG:64:LEU:O	6:AG:67:ILE:HG13	2.14	0.48
8:AI:41:GLU:N	8:AI:63:TYR:CD1	2.81	0.48
9:AJ:65:ALA:HA	9:AJ:128:ALA:N	2.28	0.48
9:AJ:15:ASP:OD2	9:AJ:23:VAL:HG11	2.12	0.48
10:AK:36:LEU:HD12	10:AK:48:TYR:CD1	2.48	0.48
11:AL:2:GLU:O	11:AL:21:PRO:HD2	2.13	0.48
11:AL:79:LEU:HD22	11:AL:101:PHE:CD2	2.47	0.48
12:AM:31:GLY:CA	12:AM:81:THR:OG1	2.62	0.48
14:AO:102:ARG:CZ	14:AO:109:GLY:C	2.82	0.48
15:AP:24:GLY:CA	15:AP:66:LEU:HB2	2.19	0.48
15:AP:29:ARG:HH11	15:AP:66:LEU:HD22	1.79	0.48
18:AS:14:ASN:C	18:AS:14:ASN:OD1	2.51	0.48
20:AU:71:LYS:O	20:AU:72:ARG:C	2.51	0.48
22:AW:59:ALA:O	22:AW:61:SER:N	2.46	0.48
22:AW:85:MET:HB2	22:AW:104:LEU:CD2	2.35	0.48
49:B2:28:LEU:HA	49:B2:33:GLN:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:13:LYS:O	51:B4:16:ARG:N	2.47	0.48
52:B5:16:CYS:O	52:B5:18:ARG:N	2.46	0.48
53:B6:22:MET:C	53:B6:28:ARG:HG2	2.33	0.48
24:BA:179:G:C5'	53:B6:32:LYS:HZ3	2.22	0.48
54:B7:52:LYS:O	54:B7:56:GLU:OE1	2.31	0.48
55:B8:9:ARG:O	55:B8:10:ILE:HG23	2.14	0.48
24:BA:1058:G:C2'	33:BL:116:ASN:HB3	2.44	0.48
24:BA:1025:G:H8	24:BA:1134:G:H1'	1.78	0.48
24:BA:1137:G:O2'	34:BM:102:ALA:HA	2.13	0.48
24:BA:1143:A:C2	24:BA:1144:G:C4	3.01	0.48
24:BA:1144:G:O2'	24:BA:1145:C:H5'	2.13	0.48
24:BA:1188:U:H2'	24:BA:1189:A:C5'	2.43	0.48
24:BA:1221:C:C2	24:BA:1229:G:C2	3.02	0.48
24:BA:1267:U:C6	24:BA:1267:U:C3'	2.97	0.48
24:BA:1426:G:N3	24:BA:1573:G:N2	2.61	0.48
24:BA:1524:G:C4	24:BA:1525:G:N7	2.82	0.48
24:BA:1558:A:H1'	24:BA:1559:G:O6	2.13	0.48
24:BA:1575:C:C4	24:BA:1576:U:C4	3.02	0.48
24:BA:1650:G:HO2'	24:BA:1651:G:P	2.33	0.48
24:BA:1651:G:H5''	24:BA:1652:A:OP1	2.13	0.48
24:BA:1655:A:C5'	28:BE:113:PHE:C	2.82	0.48
24:BA:1735:C:C2	24:BA:1741:C:C5	3.00	0.48
24:BA:151:C:N4	24:BA:175:G:O6	2.43	0.48
24:BA:1791:A:C3'	24:BA:1792:G:H8	2.15	0.48
24:BA:1869:G:O2'	24:BA:1871:A:N7	2.36	0.48
24:BA:2056:G:O5'	24:BA:2057:A:P	2.71	0.48
24:BA:2350:C:C2'	24:BA:2351:G:O5'	2.61	0.48
24:BA:2416:C:OP1	36:BO:59:LEU:C	2.52	0.48
24:BA:957:A:N1	24:BA:2459:A:C5'	2.77	0.48
24:BA:2469:A:H2'	24:BA:2470:G:H5'	1.95	0.48
24:BA:2607:G:C6	24:BA:2608:G:C2	3.01	0.48
24:BA:270(G):C:H2'	24:BA:270(H):C:C5	2.48	0.48
24:BA:35:G:H21	24:BA:450:G:H21	1.58	0.48
24:BA:458:G:H5''	53:B6:39:ARG:NE	2.29	0.48
24:BA:583:G:H2'	24:BA:584:C:O5'	2.14	0.48
24:BA:624:C:C3'	24:BA:624:C:H6	2.22	0.48
24:BA:805:G:N7	24:BA:2068:U:OP1	2.47	0.48
24:BA:852:G:C5	24:BA:926:A:C2	3.02	0.48
24:BA:864:G:C2'	24:BA:865:C:H1'	2.43	0.48
24:BA:936:C:C2	24:BA:937:U:C5	3.02	0.48
25:BB:40:U:H3'	25:BB:41:U:H5'	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:42:C:H2'	25:BB:43:C:C6	2.48	0.48
25:BB:61:G:C4	25:BB:62:C:C5	3.02	0.48
25:BB:71:C:O2	25:BB:72:G:H4'	2.13	0.48
27:BD:157:ARG:HH11	27:BD:178:PRO:CD	2.26	0.48
27:BD:92:ILE:CD1	27:BD:104:TYR:CD1	2.96	0.48
24:BA:2773:C:H5''	28:BE:165:VAL:HG13	1.95	0.48
29:BF:169:ASN:ND2	29:BF:171:PRO:O	2.47	0.48
29:BF:163:VAL:HG21	29:BF:195:ASP:OD2	2.14	0.48
29:BF:23:ASP:O	29:BF:24:LEU:HD23	2.13	0.48
30:BG:19:LEU:N	30:BG:19:LEU:CD1	2.76	0.48
31:BH:74:ASN:HB2	31:BH:138:LYS:HZ3	1.75	0.48
33:BL:10:LEU:CD2	33:BL:27:LEU:HD21	2.43	0.48
33:BL:68:VAL:HG21	33:BL:70:LYS:NZ	2.28	0.48
34:BM:66:LYS:C	34:BM:69:GLN:OE1	2.52	0.48
35:BN:18:LYS:NZ	35:BN:44:LYS:HZ3	2.07	0.48
35:BN:64:ARG:NH2	35:BN:78:ARG:NH1	2.61	0.48
37:BP:22:LYS:HA	37:BP:99:PRO:HD3	1.96	0.48
38:BQ:10:LEU:CB	38:BQ:17:ARG:NH1	2.76	0.48
38:BQ:96:ARG:NE	38:BQ:117:VAL:HG23	2.28	0.48
38:BQ:17:ARG:O	38:BQ:18:LEU:C	2.52	0.48
38:BQ:51:LEU:HD23	38:BQ:70:LEU:HD11	1.92	0.48
38:BQ:99:LYS:HA	38:BQ:112:ALA:CB	2.39	0.48
39:BR:19:LYS:HD3	39:BR:20:ARG:N	2.29	0.48
39:BR:5:THR:HG22	39:BR:6:ALA:N	2.29	0.48
40:BS:33:LYS:CA	40:BS:46:GLU:O	2.35	0.48
40:BS:85:LYS:CB	40:BS:85:LYS:HZ2	2.24	0.48
40:BS:85:LYS:N	40:BS:85:LYS:NZ	2.57	0.48
24:BA:30:G:OP1	41:BT:8:VAL:CG1	2.61	0.48
42:BU:22:VAL:O	42:BU:93:GLU:OE1	2.31	0.48
45:BX:53:PRO:HG2	45:BX:55:TYR:O	2.12	0.48
45:BX:84:ARG:HG2	45:BX:85:VAL:N	2.29	0.48
46:BY:158:PRO:CB	46:BY:159:PRO:CD	2.89	0.48
46:BY:127:LYS:CA	46:BY:164:ALA:HB3	2.41	0.48
46:BY:28:MET:C	46:BY:28:MET:SD	2.92	0.48
25:BB:105:G:H4'	46:BY:32:HIS:ND1	2.29	0.48
47:BZ:25:ARG:HD2	47:BZ:29:GLN:HE22	1.79	0.48
47:BZ:44:ARG:O	47:BZ:77:ARG:HG3	2.13	0.48
32:BK:69:LYS:C	32:BK:73:GLU:OE1	2.52	0.48
24:BA:2126:A:O2'	24:BA:2127:G:P	2.72	0.48
26:BC:74:VAL:CG1	26:BC:114:VAL:HG22	2.43	0.48
1:AA:160:A:O4'	1:AA:344:A:N7	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1413:G:N2	24:BA:1590:U:H1'	2.29	0.48
1:AA:73:G:C6	1:AA:74:C:N4	2.82	0.48
22:AW:36:LEU:HA	22:AW:36:LEU:HD23	1.47	0.48
2:A1:31:U:N3	2:A1:32:U:C4	2.81	0.48
1:AA:1321:C:C5	1:AA:1322:C:C3'	2.97	0.48
1:AA:934:C:N4	1:AA:1344:C:C2	2.78	0.48
1:AA:1347:G:H4'	1:AA:1348:U:C5'	2.42	0.48
1:AA:1410:G:C2	1:AA:1411:C:C4	3.01	0.48
1:AA:166:G:H2'	1:AA:167:G:O5'	2.13	0.48
1:AA:246:A:HO2'	1:AA:247:G:C1'	2.17	0.48
1:AA:251:G:C5'	1:AA:252:U:OP1	2.61	0.48
1:AA:323:U:H5	1:AA:324:G:N9	2.11	0.48
1:AA:375:U:C2'	1:AA:376:G:H5'	2.43	0.48
1:AA:430:A:C5	1:AA:431:A:C8	3.01	0.48
1:AA:621:A:H2'	1:AA:622:A:H8	1.77	0.48
1:AA:643:C:N3	1:AA:644:G:N7	2.60	0.48
1:AA:666:G:N1	1:AA:741:G:C4	2.82	0.48
1:AA:705:U:C4	1:AA:706:A:N7	2.81	0.48
1:AA:739:C:C2'	1:AA:740:U:H5'	2.43	0.48
1:AA:786:G:N2	1:AA:787:A:H1'	2.28	0.48
1:AA:832:C:N3	1:AA:833:U:C4	2.82	0.48
1:AA:22:G:O4'	1:AA:885:G:H1'	2.14	0.48
1:AA:950:U:H3'	15:AP:102:ARG:HH22	1.77	0.48
1:AA:1493:A:C6	3:AB:37:A:H5'	2.49	0.48
3:AC:72:C:C4	3:AC:73:A:N6	2.82	0.48
4:AE:77:ALA:O	4:AE:78:GLN:C	2.51	0.48
5:AF:58:GLU:HB2	5:AF:65:ALA:CB	2.44	0.48
5:AF:66:VAL:HB	5:AF:99:VAL:HG21	1.95	0.48
6:AG:187:ARG:HG3	6:AG:188:LEU:N	2.28	0.48
6:AG:201:GLN:O	6:AG:202:LEU:C	2.52	0.48
6:AG:59:ARG:HB3	6:AG:63:LYS:NZ	2.29	0.48
7:AH:107:ARG:O	7:AH:108:ALA:C	2.50	0.48
7:AH:91:LEU:HA	7:AH:119:LEU:O	2.14	0.48
9:AJ:27:ILE:HG12	9:AJ:43:PHE:CG	2.48	0.48
9:AJ:37:ASN:O	9:AJ:39:ALA:N	2.47	0.48
9:AJ:57:GLU:HB3	9:AJ:58:PRO:HD2	1.95	0.48
9:AJ:72:ARG:HG2	9:AJ:142:GLU:CD	2.33	0.48
1:AA:824:C:C1'	10:AK:1:MET:N	2.77	0.48
10:AK:21:LYS:O	10:AK:63:LEU:HD13	2.13	0.48
10:AK:24:THR:H	10:AK:60:ARG:CD	2.26	0.48
10:AK:41:ARG:HH11	10:AK:41:ARG:C	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1179:A:O3'	11:AL:103:THR:OG1	2.32	0.48
11:AL:5:TYR:OH	11:AL:16:ARG:HG3	2.14	0.48
11:AL:75:ASP:O	11:AL:78:LYS:HB3	2.13	0.48
13:AN:58:PRO:HB3	13:AN:90:GLY:HA2	1.93	0.48
13:AN:78:GLN:CD	13:AN:78:GLN:N	2.66	0.48
1:AA:363:A:C8	14:AO:30:ALA:HB1	2.48	0.48
14:AO:86:ARG:HH22	14:AO:119:LYS:CD	2.26	0.48
1:AA:1317:C:H41	16:AQ:18:VAL:HG11	1.78	0.48
16:AQ:22:THR:HG22	16:AQ:33:VAL:HG23	1.94	0.48
16:AQ:3:ARG:HG3	16:AQ:3:ARG:O	2.13	0.48
17:AR:57:LEU:O	17:AR:58:MET:C	2.52	0.48
19:AT:27:PHE:HB2	19:AT:28:PRO:HD2	1.95	0.48
21:AV:30:LEU:HA	21:AV:48:THR:O	2.14	0.48
1:AA:1327:C:H5''	23:AX:20:LYS:NZ	2.28	0.48
48:B1:32:PHE:HB2	48:B1:33:GLN:HE22	1.78	0.48
24:BA:388:G:OP2	50:B3:23:GLU:OE2	2.31	0.48
50:B3:6:HIS:NE2	50:B3:55:ARG:CD	2.62	0.48
51:B4:4:HIS:CG	51:B4:5:PRO:CD	2.97	0.48
24:BA:1051:G:H5''	24:BA:1052:C:OP2	2.13	0.48
24:BA:1058:G:N3	33:BL:116:ASN:ND2	2.61	0.48
24:BA:1181:C:N4	24:BA:1182:A:N6	2.62	0.48
24:BA:1265:A:C1'	24:BA:1267:U:N3	2.77	0.48
24:BA:1391:U:C2'	24:BA:1391:U:O2	2.61	0.48
24:BA:1428:C:O2'	24:BA:1429:G:P	2.72	0.48
24:BA:1540:G:H3'	24:BA:1541:U:O4'	2.12	0.48
24:BA:1709:U:C5'	24:BA:1709:U:H6	2.25	0.48
24:BA:1746:G:O2'	24:BA:1747:G:O4'	2.22	0.48
24:BA:1782:C:O5'	24:BA:1783:A:OP2	2.32	0.48
24:BA:740:U:O4'	24:BA:1784:A:C6	2.67	0.48
24:BA:1837:C:C4	24:BA:1899:G:O6	2.67	0.48
24:BA:1954:G:C2'	24:BA:1956:U:O4	2.62	0.48
24:BA:1996:C:C2'	24:BA:1997:G:H4'	2.38	0.48
24:BA:2051:A:N3	24:BA:2614:A:N6	2.61	0.48
24:BA:2057:A:N7	24:BA:2058:A:N7	2.62	0.48
24:BA:2072:G:C6	24:BA:2073:C:C4	3.02	0.48
24:BA:225:A:N3	24:BA:225:A:H2'	2.29	0.48
24:BA:2286:A:H62	52:B5:30:THR:C	2.17	0.48
24:BA:2286:A:N6	52:B5:32:ASN:HA	2.29	0.48
24:BA:228:A:C2'	24:BA:229:A:H5'	2.36	0.48
24:BA:2371:G:N2	24:BA:2372:G:C4	2.82	0.48
24:BA:2423:U:C6	24:BA:2425:A:C5	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:247:G:N1	54:B7:8:LYS:HD2	2.28	0.48
24:BA:2660:A:OP1	31:BH:175:LYS:HE3	2.13	0.48
24:BA:270(M):U:C3'	24:BA:270(N):G:H4'	2.44	0.48
24:BA:270(W):G:N7	24:BA:270(X):G:N7	2.61	0.48
24:BA:2751:G:N3	24:BA:2751:G:C2'	2.76	0.48
24:BA:2795:G:O5'	24:BA:2799:A:N1	2.46	0.48
24:BA:2872:G:C2	24:BA:2873:A:N6	2.82	0.48
24:BA:287:C:C2'	24:BA:288:C:H5	2.15	0.48
24:BA:30:G:C2'	24:BA:31:C:O4'	2.54	0.48
24:BA:322:A:H5'	24:BA:341:G:H5'	1.93	0.48
24:BA:332:A:O2'	24:BA:333:G:O5'	2.31	0.48
24:BA:371:A:C2	24:BA:372:G:C6	3.02	0.48
24:BA:462:C:C4	24:BA:468:G:N2	2.82	0.48
24:BA:645:C:H4'	24:BA:646:A:C8	2.49	0.48
24:BA:689:A:C2'	24:BA:690:G:O5'	2.62	0.48
24:BA:697:C:C3'	24:BA:698:C:H5''	2.43	0.48
24:BA:724:U:H2'	24:BA:725:G:O4'	2.13	0.48
24:BA:733:G:N7	24:BA:761:A:N6	2.61	0.48
24:BA:814:C:H2'	24:BA:815:C:H6	1.78	0.48
24:BA:856:C:C1'	47:BZ:69:PHE:CD1	2.96	0.48
24:BA:942:G:C5'	36:BO:32:THR:CG2	2.91	0.48
24:BA:973:A:HO2'	24:BA:974:G:H5'	1.73	0.48
25:BB:99:A:N6	25:BB:100:G:C6	2.81	0.48
25:BB:2:C:H6	25:BB:2:C:OP2	1.97	0.48
27:BD:224:ALA:O	27:BD:226:MET:N	2.47	0.48
28:BE:129:HIS:N	28:BE:129:HIS:CD2	2.78	0.48
28:BE:136:ARG:C	28:BE:137:HIS:CG	2.86	0.48
28:BE:149:ARG:HH11	28:BE:151:TYR:CA	2.27	0.48
28:BE:55:ASN:HA	28:BE:73:GLU:OE2	2.13	0.48
29:BF:103:LYS:HA	29:BF:106:ARG:CD	2.42	0.48
29:BF:145:GLU:C	29:BF:147:GLY:H	2.16	0.48
29:BF:43:LYS:HE3	29:BF:98:SER:HB3	1.94	0.48
30:BG:16:ARG:HD2	30:BG:20:ILE:CD1	2.44	0.48
24:BA:2306:C:N3	30:BG:42:GLY:O	2.46	0.48
31:BH:148:ILE:CG2	31:BH:149:ARG:N	2.76	0.48
31:BH:97:ARG:HB3	31:BH:97:ARG:CZ	2.44	0.48
34:BM:38:HIS:O	34:BM:42:TRP:CZ3	2.67	0.48
34:BM:69:GLN:NE2	34:BM:69:GLN:N	2.61	0.48
35:BN:122:LEU:CA	40:BS:71:GLY:HA3	2.43	0.48
37:BP:16:ARG:O	37:BP:17:LEU:HD12	2.13	0.48
37:BP:99:PRO:O	37:BP:100:GLY:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2822:G:N7	38:BQ:4:LEU:CD2	2.77	0.48
38:BQ:74:LYS:N	38:BQ:77:ARG:HH22	2.12	0.48
35:BN:122:LEU:HB2	40:BS:71:GLY:HA3	1.95	0.48
24:BA:2848:G:H8	40:BS:99:LEU:CD1	2.16	0.48
41:BT:57:PHE:HD2	41:BT:61:TRP:HE1	1.62	0.48
43:BV:28:SER:O	43:BV:31:GLU:OE1	2.32	0.48
43:BV:25:ARG:HA	43:BV:71:VAL:HG21	1.95	0.48
24:BA:519:U:H5''	43:BV:75:TYR:HB2	1.96	0.48
45:BX:7:VAL:HG11	45:BX:72:VAL:H	1.78	0.48
45:BX:9:LYS:HD2	45:BX:110:GLU:HG3	1.96	0.48
46:BY:42:VAL:HG12	46:BY:46:LYS:HZ1	1.75	0.48
46:BY:40:ASP:O	46:BY:44:PHE:HD1	1.96	0.48
46:BY:60:GLU:CG	46:BY:69:THR:HG22	2.44	0.48
47:BZ:21:LEU:HD13	47:BZ:41:ARG:CG	2.39	0.48
47:BZ:46:LYS:CG	47:BZ:78:TYR:CD2	2.96	0.48
32:BK:69:LYS:HG3	32:BK:73:GLU:OE1	2.13	0.48
26:BC:117:PRO:HD3	26:BC:146:GLY:O	2.13	0.48
26:BC:18:LYS:O	26:BC:20:TYR:CE1	2.66	0.48
24:BA:1511:A:H3'	24:BA:1512:G:H5''	1.95	0.48
24:BA:1588:C:C2'	24:BA:1589:C:O5'	2.62	0.48
7:AH:153:LYS:HG2	7:AH:154:GLY:N	2.25	0.48
6:AG:159:ARG:HD2	6:AG:163:GLU:OE2	2.12	0.48
31:BH:20:ALA:HB1	31:BH:21:PRO:CD	2.42	0.48
27:BD:273:ARG:N	27:BD:273:ARG:HD3	2.28	0.48
2:A1:41:U:O2'	2:A1:42:U:H5'	2.14	0.48
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.14	0.48
1:AA:1080:A:N7	1:AA:1081:G:H1'	2.28	0.48
1:AA:1100:C:H2'	4:AE:98:LEU:HD13	1.86	0.48
1:AA:1127:G:O2'	1:AA:1148:U:N3	2.42	0.48
1:AA:1158:C:H2'	1:AA:1158:C:O2	2.12	0.48
1:AA:1325:C:C2	1:AA:1326:C:C5	3.01	0.48
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.14	0.48
1:AA:1358:U:H5''	1:AA:1359:C:OP2	2.13	0.48
1:AA:1413:A:N6	1:AA:1488:G:N1	2.62	0.48
1:AA:173:U:C5'	1:AA:197:A:H1'	2.43	0.48
1:AA:439:A:H3'	1:AA:440:A:C8	2.45	0.48
1:AA:60:A:O2'	1:AA:61:G:P	2.71	0.48
1:AA:873:A:N3	1:AA:873:A:H2'	2.28	0.48
1:AA:878:G:O2'	1:AA:879:C:H5'	2.13	0.48
1:AA:922:G:C2	1:AA:923:A:C4	3.02	0.48
1:AA:947:G:H2'	1:AA:948:C:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:996:A:C2	1:AA:997:U:C4	3.02	0.48
3:AB:31:A:C2'	3:AB:32:U:H5'	2.43	0.48
3:AC:19:G:C4	3:AC:57:G:N2	2.82	0.48
3:AD:3:C:C2	3:AD:4:C:C5	3.01	0.48
4:AE:112:VAL:CG1	4:AE:149:LEU:HD21	2.44	0.48
4:AE:52:GLU:O	4:AE:53:ARG:C	2.52	0.48
5:AF:8:ILE:HG13	5:AF:16:ARG:HD2	1.95	0.48
5:AF:28:GLN:C	5:AF:30:ARG:HD3	2.33	0.48
5:AF:48:TYR:C	5:AF:48:TYR:CD2	2.87	0.48
6:AG:102:ASP:HB2	6:AG:136:PRO:CA	2.44	0.48
6:AG:145:GLU:CG	6:AG:184:LYS:HE2	2.43	0.48
6:AG:30:LYS:HZ3	6:AG:35:ARG:HD2	1.77	0.48
7:AH:112:LEU:O	7:AH:113:ALA:C	2.52	0.48
9:AJ:102:ARG:O	9:AJ:105:VAL:N	2.47	0.48
9:AJ:113:GLU:OE1	9:AJ:119:ARG:N	2.47	0.48
9:AJ:149:ARG:O	9:AJ:152:ALA:N	2.46	0.48
10:AK:104:ARG:O	10:AK:105:ARG:C	2.51	0.48
10:AK:9:MET:CG	10:AK:26:VAL:HG11	2.41	0.48
10:AK:40:ALA:HB2	10:AK:45:ILE:HG23	1.96	0.48
10:AK:41:ARG:CB	10:AK:41:ARG:HH11	2.27	0.48
1:AA:1371:G:OP2	11:AL:11:LYS:CE	2.62	0.48
11:AL:9:ARG:HD2	11:AL:14:VAL:CG1	2.43	0.48
12:AM:79:ARG:O	12:AM:81:THR:N	2.47	0.48
13:AN:81:ASP:HA	13:AN:107:SER:O	2.14	0.48
14:AO:68:ALA:HB1	14:AO:99:HIS:CA	2.43	0.48
14:AO:8:ASN:HD22	14:AO:8:ASN:N	2.09	0.48
15:AP:102:ARG:HG3	15:AP:104:ARG:HB3	1.96	0.48
16:AQ:29:ARG:HB2	16:AQ:40:CYS:HB3	1.96	0.48
18:AS:19:ILE:HG13	18:AS:38:TYR:CA	2.40	0.48
20:AU:81:PHE:O	20:AU:82:THR:HB	2.14	0.48
21:AV:22:LEU:HA	21:AV:25:LYS:HZ1	1.79	0.48
22:AW:54:LYS:N	22:AW:100:ILE:HD11	2.28	0.48
1:AA:333:G:C4'	22:AW:16:HIS:HD2	2.25	0.48
22:AW:42:GLN:O	22:AW:45:GLN:N	2.47	0.48
48:B1:33:GLN:O	48:B1:36:ILE:HG22	2.13	0.48
48:B1:38:GLN:H	48:B1:41:GLN:HE21	1.51	0.48
50:B3:65:ASP:HA	50:B3:68:ARG:HH12	1.77	0.48
51:B4:50:GLY:O	51:B4:57:VAL:HG22	2.14	0.48
52:B5:19:ARG:C	52:B5:43:CYS:SG	2.87	0.48
24:BA:469:G:N1	53:B6:40:TRP:NE1	2.52	0.48
24:BA:1013:C:H2'	24:BA:1014:U:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1050:A:C8	24:BA:1051:G:H8	2.32	0.48
24:BA:1225:C:C4	24:BA:1226:G:N1	2.82	0.48
24:BA:1236:G:O2'	24:BA:1237:A:O4'	2.20	0.48
24:BA:1348:G:C2'	24:BA:1349:A:O5'	2.62	0.48
24:BA:1633:G:C5	24:BA:1635:G:N1	2.81	0.48
24:BA:1697:G:O6	24:BA:1698:A:N1	2.47	0.48
24:BA:1761:C:H5''	24:BA:1762:A:C2	2.49	0.48
24:BA:1778:U:H2'	24:BA:1779:U:C5	2.48	0.48
24:BA:1819:A:H3'	27:BD:178:PRO:CB	2.29	0.48
24:BA:18:C:O5'	24:BA:18:C:C6	2.64	0.48
24:BA:2044:C:C4	24:BA:2625:G:C2	3.01	0.48
24:BA:2048:G:C2'	24:BA:2049:G:O5'	2.61	0.48
24:BA:189:G:N2	24:BA:206:U:H5	2.12	0.48
24:BA:1854:A:H1'	24:BA:2087:G:H21	1.77	0.48
24:BA:2232:U:C2'	24:BA:2233:U:C5'	2.92	0.48
24:BA:2307:G:OP2	24:BA:2307:G:O4'	2.31	0.48
24:BA:2476:A:N7	24:BA:2477:C:C5	2.82	0.48
24:BA:2497:A:C8	24:BA:2497:A:C3'	2.96	0.48
24:BA:24:G:C6	24:BA:25:U:O4	2.67	0.48
24:BA:2527:C:H2'	24:BA:2528:U:H6	1.79	0.48
24:BA:2528:U:C2	24:BA:2536:G:N2	2.82	0.48
24:BA:2543:G:N2	24:BA:2765:A:N3	2.62	0.48
24:BA:2640:G:C4	24:BA:2641:G:C8	3.01	0.48
24:BA:2733:A:H2'	24:BA:2734:A:C4'	2.43	0.48
24:BA:2805:G:C3'	24:BA:2807:G:C5'	2.84	0.48
24:BA:2864:G:C2	24:BA:2865:U:C2	3.02	0.48
24:BA:289:A:C5	24:BA:351:G:O6	2.65	0.48
24:BA:318:C:C2	24:BA:334:C:N3	2.82	0.48
24:BA:247:G:C4'	24:BA:386:G:C2	2.95	0.48
24:BA:35:G:O4'	24:BA:454:A:C1'	2.62	0.48
24:BA:501:A:N7	24:BA:502:A:N6	2.61	0.48
24:BA:514:A:C2'	24:BA:515:A:H5'	2.44	0.48
24:BA:70:G:H4'	24:BA:71:A:H5'	1.89	0.48
24:BA:717:G:N2	24:BA:718:A:H1'	2.27	0.48
24:BA:733:G:C5	24:BA:761:A:C5	3.01	0.48
24:BA:774:A:C1'	24:BA:775:G:C8	2.95	0.48
24:BA:586:A:H61	24:BA:810:U:H5'	1.78	0.48
24:BA:917:A:H2'	24:BA:918:A:C5'	2.37	0.48
24:BA:955:C:H5''	37:BP:87:LYS:CD	2.44	0.48
24:BA:979:G:C8	24:BA:981:A:OP2	2.66	0.48
24:BA:9:U:C2'	24:BA:9:U:O2	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:100:G:H2'	25:BB:101:A:O4'	2.13	0.48
25:BB:71:C:C2'	25:BB:72:G:C5'	2.64	0.48
25:BB:85:G:C2	25:BB:86:G:C4	3.01	0.48
27:BD:159:ALA:HB1	27:BD:198:ASN:O	2.14	0.48
27:BD:80:ALA:O	27:BD:81:ALA:CB	2.61	0.48
24:BA:1658:C:OP1	28:BE:134:ILE:CD1	2.57	0.48
28:BE:7:VAL:CG1	28:BE:196:VAL:HG23	2.32	0.48
28:BE:4:ILE:O	28:BE:27:LEU:HD13	2.14	0.48
28:BE:85:ASN:C	28:BE:87:GLU:N	2.67	0.48
28:BE:8:LYS:CE	40:BS:3:ARG:HG3	2.44	0.48
24:BA:600:G:C1'	29:BF:105:VAL:HG21	2.43	0.48
30:BG:102:PHE:HD2	30:BG:106:LEU:HD12	1.71	0.48
30:BG:1:MET:HB3	30:BG:2:PRO:HD2	1.95	0.48
30:BG:36:LYS:HZ3	30:BG:38:VAL:HG22	1.79	0.48
30:BG:75:LYS:HA	30:BG:84:LYS:HG3	1.95	0.48
30:BG:94:LEU:N	30:BG:94:LEU:CD1	2.76	0.48
31:BH:13:LYS:CE	31:BH:80:SER:HA	2.41	0.48
24:BA:2745:C:C1'	31:BH:143:GLN:HG2	2.42	0.48
31:BH:35:VAL:CG2	31:BH:75:ALA:CB	2.91	0.48
33:BL:41:PHE:CE2	33:BL:55:VAL:HB	2.48	0.48
34:BM:17:ASP:OD1	34:BM:17:ASP:C	2.51	0.48
34:BM:21:LYS:HD3	34:BM:26:LEU:HD22	1.96	0.48
34:BM:30:ILE:HG22	34:BM:34:LEU:HD11	1.96	0.48
34:BM:12:ARG:CD	34:BM:50:ASP:OD1	2.62	0.48
34:BM:87:LEU:HD23	34:BM:88:GLU:CD	2.34	0.48
35:BN:39:ILE:CD1	35:BN:59:LYS:HE3	2.44	0.48
36:BO:101:VAL:HG23	36:BO:101:VAL:O	2.12	0.48
37:BP:112:GLU:HA	37:BP:115:MET:HB2	1.95	0.48
24:BA:2723:C:HO2'	38:BQ:2:ARG:HA	1.78	0.48
40:BS:109:GLU:CD	40:BS:110:ILE:H	2.17	0.48
40:BS:30:VAL:CG2	40:BS:32:TYR:HE2	2.24	0.48
40:BS:67:SER:HA	40:BS:75:ILE:HG22	1.95	0.48
41:BT:8:VAL:N	41:BT:11:ARG:NH2	2.62	0.48
41:BT:16:LYS:HG2	41:BT:17:ILE:N	2.26	0.48
42:BU:5:VAL:CG1	42:BU:37:VAL:CG2	2.90	0.48
41:BT:47:TYR:CE2	42:BU:75:PHE:HB3	2.48	0.48
24:BA:1266:G:C4	43:BV:15:ARG:NH1	2.82	0.48
43:BV:25:ARG:CZ	43:BV:74:ALA:O	2.62	0.48
45:BX:53:PRO:O	45:BX:54:LYS:C	2.51	0.48
46:BY:127:LYS:CA	46:BY:164:ALA:H	2.23	0.48
46:BY:50:GLN:O	46:BY:52:SER:N	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:80:ARG:HB2	46:BY:81:ARG:H	1.37	0.48
25:BB:75:G:N2	46:BY:87:ASP:OD1	2.46	0.48
32:BK:127:VAL:CA	32:BK:140:LEU:O	2.53	0.48
24:BA:2175:C:O2	24:BA:2175:C:H2'	2.12	0.48
26:BC:127:LEU:HB3	26:BC:131:LEU:HD11	1.96	0.48
26:BC:32:LEU:HD13	26:BC:220:PRO:HB2	1.95	0.48
6:AG:43:HIS:ND1	6:AG:46:LYS:HE3	2.29	0.48
1:AA:76:G:H2'	1:AA:77:C:C6	2.48	0.48
1:AA:1129:C:C5'	1:AA:1130:A:OP1	2.51	0.48
1:AA:1144:G:N2	1:AA:1146:A:N7	2.62	0.48
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.32	0.48
1:AA:1147:C:C2	1:AA:1148:U:C5	3.02	0.48
1:AA:1178:G:N2	1:AA:1180:A:O5'	2.47	0.48
1:AA:1052:U:OP2	1:AA:1200:C:O2	2.31	0.48
1:AA:1049:U:H1'	1:AA:1201:A:H8	1.76	0.48
1:AA:1261:A:H3'	1:AA:1262:C:C6	2.48	0.48
1:AA:1261:A:H5'	1:AA:1284:C:OP1	2.14	0.48
1:AA:1347:G:H22	1:AA:1373:G:H3'	1.77	0.48
1:AA:1388:C:O2'	1:AA:1389:C:H5'	2.13	0.48
1:AA:1413:A:N6	1:AA:1488:G:C5	2.80	0.48
1:AA:1443:G:P	1:AA:1446:A:OP1	2.71	0.48
1:AA:1480:G:H2'	1:AA:1481:U:C5'	2.43	0.48
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.12	0.48
1:AA:236:G:C3'	1:AA:237:C:C6	2.91	0.48
1:AA:293:G:C4	1:AA:294:U:C5	3.02	0.48
1:AA:49:U:O4	1:AA:362:G:N2	2.47	0.48
1:AA:440:A:N6	1:AA:494:U:C6	2.80	0.48
1:AA:536:C:O5'	1:AA:536:C:H6	1.96	0.48
1:AA:552:U:C2	1:AA:553:A:C8	3.02	0.48
1:AA:601:C:O2'	1:AA:602:A:H5'	2.14	0.48
1:AA:729:A:N6	17:AR:51:HIS:CD2	2.82	0.48
1:AA:910:C:HO2'	1:AA:911:U:H5'	1.78	0.48
3:AC:19:G:N2	3:AC:57:G:N3	2.62	0.48
5:AF:114:PRO:O	5:AF:117:ALA:HB3	2.14	0.48
5:AF:110:ASN:ND2	5:AF:144:SER:OG	2.46	0.48
6:AG:104:VAL:CG2	6:AG:105:VAL:N	2.76	0.48
6:AG:106:TYR:CE1	6:AG:112:VAL:C	2.87	0.48
7:AH:105:VAL:HG13	7:AH:132:ALA:HA	1.96	0.48
7:AH:121:LYS:CE	7:AH:122:GLU:N	2.77	0.48
7:AH:40:ARG:CA	7:AH:68:GLU:OE1	2.61	0.48
8:AI:12:PRO:HG2	8:AI:13:ASN:ND2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:129:GLU:OE1	9:AJ:131:LYS:HD3	2.14	0.48
10:AK:3:THR:HB	10:AK:4:ASP:OD1	2.14	0.48
10:AK:49:GLU:OE2	10:AK:51:VAL:HG23	2.14	0.48
10:AK:5:PRO:O	10:AK:6:ILE:O	2.32	0.48
11:AL:82:ALA:CB	11:AL:101:PHE:CE1	2.97	0.48
13:AN:119:CYS:O	13:AN:120:ARG:C	2.52	0.48
13:AN:60:ALA:O	13:AN:63:LEU:N	2.47	0.48
14:AO:77:LEU:CD1	14:AO:107:ALA:HB2	2.39	0.48
14:AO:24:VAL:CG1	14:AO:26:ALA:H	2.26	0.48
5:AF:29:TYR:CD1	16:AQ:36:PHE:HZ	2.32	0.48
17:AR:62:GLN:HA	17:AR:65:ARG:HH12	1.77	0.48
17:AR:6:GLU:C	17:AR:8:LYS:N	2.64	0.48
19:AT:18:THR:O	19:AT:19:VAL:HG13	2.13	0.48
21:AV:68:GLY:O	21:AV:69:HIS:ND1	2.46	0.48
22:AW:30:LYS:HB2	22:AW:30:LYS:NZ	2.29	0.48
22:AW:81:LYS:HB3	22:AW:85:MET:HE3	1.95	0.48
49:B2:50:VAL:CG2	49:B2:53:LEU:HD12	2.44	0.48
24:BA:1264:G:H5'	51:B4:15:ARG:HH11	1.79	0.48
54:B7:8:LYS:NZ	54:B7:11:LYS:NZ	2.61	0.48
54:B7:27:THR:N	54:B7:44:LYS:HZ1	2.11	0.48
24:BA:1002:G:H2'	24:BA:1003:G:O5'	2.13	0.48
24:BA:1156:A:OP1	41:BT:55:ARG:NH2	2.45	0.48
24:BA:49:A:N1	24:BA:120:U:O4	2.46	0.48
24:BA:1224:G:O6	24:BA:1225:C:N3	2.46	0.48
24:BA:1255:U:O2	29:BF:72:ARG:HB3	2.14	0.48
24:BA:1277:G:C2'	24:BA:1278:A:H5'	2.43	0.48
24:BA:1314:C:H2'	24:BA:1315:C:H5'	1.93	0.48
24:BA:1342:A:P	24:BA:1342:A:H8	2.37	0.48
24:BA:1689:A:C6	24:BA:1700:A:C2	3.02	0.48
24:BA:171:G:N2	24:BA:172:C:N3	2.62	0.48
24:BA:1746:G:C2'	24:BA:1747:G:O4'	2.61	0.48
24:BA:1781:C:H2'	24:BA:1782:C:OP2	2.12	0.48
24:BA:1364:G:H5''	24:BA:1809:A:N3	2.29	0.48
24:BA:1890:A:O5'	24:BA:1890:A:H8	1.96	0.48
24:BA:2021:C:N4	41:BT:28:ARG:HH12	2.12	0.48
24:BA:219:G:H2'	24:BA:220:G:O4'	2.14	0.48
24:BA:2255:G:C4	24:BA:2256:G:C8	3.01	0.48
24:BA:919:G:H21	24:BA:2268:A:H5''	1.77	0.48
24:BA:230:U:C2'	24:BA:231:C:O4'	2.62	0.48
24:BA:236:C:C2'	24:BA:237:C:O5'	2.62	0.48
24:BA:2389:G:OP1	24:BA:2390:U:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2456:C:C2'	24:BA:2457:U:H5'	2.44	0.48
24:BA:2470:G:C2	24:BA:2471:C:C5	3.01	0.48
24:BA:2517:C:HO2'	24:BA:2518:A:P	2.36	0.48
24:BA:2551:C:H2'	24:BA:2552:U:O4'	2.14	0.48
24:BA:2604:U:H2'	24:BA:2605:U:C6	2.48	0.48
24:BA:2051:A:N1	24:BA:2614:A:C6	2.82	0.48
24:BA:2645:G:H4'	24:BA:2732:G:HO2'	1.72	0.48
24:BA:2718:G:C6	24:BA:2719:G:C6	3.01	0.48
24:BA:2728:U:H2'	24:BA:2729:G:H8	1.79	0.48
24:BA:2813:A:O2'	24:BA:2814:C:H5'	2.14	0.48
24:BA:2854:G:C2	24:BA:2864:G:C5	3.02	0.48
24:BA:2857:G:N1	24:BA:2861:G:C6	2.82	0.48
24:BA:301:G:C2'	24:BA:302:C:C6	2.89	0.48
24:BA:308:G:C2	24:BA:309:G:C1'	2.81	0.48
24:BA:270(C):C:P	24:BA:365:C:HO2'	2.34	0.48
24:BA:372:G:OP2	24:BA:373:U:OP2	2.31	0.48
24:BA:443:A:OP1	29:BF:46:ARG:O	2.32	0.48
24:BA:452:G:N1	24:BA:458:G:N3	2.57	0.48
24:BA:531:C:C2'	24:BA:532:A:OP1	2.62	0.48
24:BA:556:G:H2'	24:BA:557:U:O5'	2.12	0.48
24:BA:597:U:C2	24:BA:598:G:N7	2.82	0.48
24:BA:628:G:N1	24:BA:629:G:C6	2.81	0.48
24:BA:649:G:O2'	54:B7:17:THR:HG21	2.14	0.48
24:BA:637:A:C2	24:BA:651:G:O3'	2.67	0.48
24:BA:76:C:H4'	48:B1:54:ARG:NH2	2.27	0.48
24:BA:892:G:H2'	24:BA:893:C:C6	2.48	0.48
24:BA:945:A:C2'	24:BA:945:A:N3	2.76	0.48
24:BA:959:A:N6	24:BA:960:A:N6	2.61	0.48
24:BA:972:G:OP1	24:BA:974(A):C:C3'	2.61	0.48
24:BA:988:A:H2	24:BA:989:G:N2	2.12	0.48
25:BB:73:A:N7	25:BB:104:A:C5	2.82	0.48
25:BB:85:G:C2	25:BB:86:G:C8	3.02	0.48
27:BD:149:PRO:HG3	27:BD:189:CYS:SG	2.54	0.48
27:BD:233:HIS:HD1	27:BD:233:HIS:N	2.11	0.48
24:BA:2596:U:C2'	27:BD:242:ARG:NE	2.76	0.48
24:BA:1901:A:O3'	27:BD:244:ARG:NH2	2.47	0.48
27:BD:9:TYR:CE1	27:BD:25:THR:CG2	2.96	0.48
27:BD:183:ARG:NE	27:BD:268:ARG:HD2	2.29	0.48
27:BD:60:ARG:CB	27:BD:62:TYR:CE2	2.96	0.48
28:BE:48:GLN:H	28:BE:48:GLN:NE2	2.11	0.48
28:BE:8:LYS:NZ	40:BS:3:ARG:CG	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:156:LEU:N	29:BF:156:LEU:HD23	2.29	0.48
29:BF:52:LYS:NZ	29:BF:88:VAL:HG21	2.28	0.48
30:BG:107:LEU:HD12	30:BG:111:LEU:HD22	1.94	0.48
30:BG:103:LEU:CD2	30:BG:176:LEU:HD11	2.42	0.48
30:BG:35:GLU:OE1	30:BG:36:LYS:HB3	2.14	0.48
30:BG:36:LYS:HZ2	30:BG:160:VAL:HG23	1.78	0.48
24:BA:2746:U:H5'	31:BH:138:LYS:O	2.14	0.48
31:BH:137:ASP:O	31:BH:141:VAL:HG23	2.13	0.48
31:BH:69:ARG:HB2	31:BH:69:ARG:NH2	2.27	0.48
34:BM:18:ALA:O	34:BM:21:LYS:HB2	2.14	0.48
34:BM:88:GLU:H	34:BM:88:GLU:CD	2.17	0.48
34:BM:89:LYS:HG2	34:BM:90:MET:H	1.75	0.48
35:BN:106:LEU:CD1	35:BN:107:ARG:N	2.75	0.48
36:BO:117:GLU:N	36:BO:117:GLU:CD	2.67	0.48
36:BO:127:ALA:HB3	36:BO:130:PHE:CE2	2.48	0.48
36:BO:76:LYS:HB3	36:BO:113:LYS:O	2.13	0.48
41:BT:48:ALA:C	41:BT:52:ARG:HE	2.16	0.48
41:BT:88:ILE:O	42:BU:52:VAL:CA	2.58	0.48
42:BU:4:ILE:HD12	42:BU:4:ILE:H	1.77	0.48
43:BV:11:ARG:HB3	43:BV:11:ARG:CZ	2.43	0.48
43:BV:6:ILE:HG12	43:BV:104:THR:CA	2.29	0.48
46:BY:122:ARG:NH2	46:BY:169:GLU:OE1	2.47	0.48
46:BY:30:ASN:HB2	46:BY:90:VAL:CG2	2.28	0.48
47:BZ:27:GLU:CB	47:BZ:69:PHE:CE1	2.97	0.48
32:BK:130:TYR:O	32:BK:132:PRO:CD	2.57	0.48
32:BK:126:TYR:O	32:BK:142:VAL:HG23	2.14	0.48
3:AD:19:G:H5'	3:AD:20:U:O4	2.13	0.48
24:BA:2126:A:C4'	24:BA:2127:G:O5'	2.62	0.48
24:BA:2157:G:O2'	24:BA:2158:A:OP1	2.27	0.48
24:BA:1488:G:C2'	24:BA:1489:U:C5'	2.77	0.48
48:B1:6:GLU:N	48:B1:6:GLU:CD	2.66	0.48
24:BA:3:U:H6	24:BA:3:U:O5'	1.96	0.48
48:B1:65:GLN:CA	48:B1:65:GLN:NE2	2.77	0.48
2:A1:41:U:H2'	2:A1:42:U:H6	1.78	0.48
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.30	0.48
1:AA:1065:U:O2'	1:AA:1066:C:P	2.71	0.48
1:AA:1181:G:H2'	1:AA:1182:G:H5'	1.96	0.48
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.13	0.48
1:AA:1206:G:H2'	1:AA:1207:G:C8	2.49	0.48
1:AA:1273:G:C3'	1:AA:1274:G:H8	2.26	0.48
1:AA:1299:A:N7	1:AA:1301:U:N1	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1323:G:C6	1:AA:1324:A:N6	2.82	0.48
1:AA:1521:G:O2'	1:AA:1522:U:C5'	2.58	0.48
1:AA:174:C:N3	1:AA:175:C:C5	2.82	0.48
1:AA:225:C:O2	1:AA:226:G:O4'	2.32	0.48
1:AA:294:U:H2'	1:AA:295:C:C5	2.49	0.48
1:AA:383:A:H2'	1:AA:384:G:C4'	2.44	0.48
1:AA:522:C:H5''	14:AO:120:TYR:HH	1.75	0.48
1:AA:533:A:H3'	1:AA:534:U:H5''	1.96	0.48
1:AA:515:G:C2	1:AA:537:G:C2	3.02	0.48
1:AA:587:G:H1'	1:AA:755:G:C2	2.41	0.48
1:AA:656:C:H2'	1:AA:657:G:C5'	2.44	0.48
1:AA:692:U:C2	1:AA:694:A:H3'	2.48	0.48
1:AA:738:C:OP1	8:AI:4:TYR:OH	2.32	0.48
1:AA:658:G:C6	1:AA:749:C:N4	2.81	0.48
1:AA:859:A:H2'	1:AA:860:A:C4'	2.44	0.48
1:AA:87:A:N7	1:AA:88:C:C5	2.81	0.48
1:AA:982:U:H1'	1:AA:983:A:H62	1.78	0.48
3:AB:52:G:C6	3:AB:63:G:O6	2.67	0.48
3:AC:41:C:H2'	3:AC:42:C:O5'	2.13	0.48
3:AC:67:C:C2	3:AC:68:C:C5	3.02	0.48
4:AE:59:GLU:HB2	4:AE:225:ALA:HB2	1.94	0.48
4:AE:36:ARG:HE	4:AE:36:ARG:HA	1.79	0.48
5:AF:116:VAL:HG13	5:AF:119:ARG:HD3	1.96	0.48
5:AF:5:ILE:CG2	12:AM:51:ARG:HH22	2.27	0.48
5:AF:64:VAL:HG12	5:AF:64:VAL:O	2.13	0.48
6:AG:128:VAL:HB	6:AG:132:ARG:HA	1.95	0.48
6:AG:51:PRO:O	6:AG:52:SER:C	2.50	0.48
6:AG:75:PHE:HE1	6:AG:97:LEU:CD2	2.27	0.48
6:AG:205:GLU:OE1	7:AH:100:VAL:HB	2.14	0.48
7:AH:69:VAL:HG12	7:AH:76:ILE:HD11	1.96	0.48
8:AI:41:GLU:N	8:AI:63:TYR:HD1	2.11	0.48
8:AI:30:LEU:HD23	8:AI:75:LEU:CD1	2.43	0.48
10:AK:103:VAL:CB	10:AK:108:GLY:C	2.81	0.48
10:AK:111:ILE:CD1	10:AK:136:GLU:HA	2.44	0.48
10:AK:112:LEU:HG	10:AK:113:SER:N	2.28	0.48
10:AK:17:THR:CB	10:AK:18:ARG:NH2	2.77	0.48
11:AL:37:PHE:O	11:AL:40:LEU:HB2	2.12	0.48
13:AN:33:THR:HB	13:AN:38:ASN:O	2.14	0.48
14:AO:11:VAL:HG22	19:AT:32:TYR:CD1	2.47	0.48
15:AP:71:ARG:O	15:AP:72:ALA:C	2.50	0.48
15:AP:86:CYS:SG	15:AP:89:GLY:HA3	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:48:ALA:O	16:AQ:51:GLY:N	2.46	0.48
20:AU:66:LEU:CD1	20:AU:67:ALA:H	2.22	0.48
21:AV:51:VAL:CG2	21:AV:60:VAL:HG21	2.43	0.48
54:B7:50:LEU:C	54:B7:53:PRO:HD2	2.33	0.48
24:BA:1027:A:C6	24:BA:1126:A:N3	2.81	0.48
24:BA:1139:G:OP1	34:BM:23:LEU:HB2	2.13	0.48
24:BA:1247:A:O2'	24:BA:1248:G:O5'	2.30	0.48
24:BA:1281:G:H2'	24:BA:1282:U:C5	2.46	0.48
24:BA:1300:U:H2'	24:BA:1626:G:C2	2.47	0.48
24:BA:1316:U:H2'	24:BA:1317:A:H8	1.78	0.48
24:BA:1359:A:C4	24:BA:1373:A:C2	3.02	0.48
24:BA:1394:U:H5''	24:BA:1603:A:O3'	2.13	0.48
24:BA:1408:C:C2	24:BA:1409:C:C5	3.01	0.48
24:BA:1456:G:N3	24:BA:1457:A:C8	2.81	0.48
24:BA:1525:G:C2'	24:BA:1526:G:O5'	2.62	0.48
24:BA:1544:C:C2'	24:BA:1545:A:O4'	2.62	0.48
24:BA:1575:C:C4	24:BA:1576:U:N3	2.82	0.48
24:BA:1612:C:H4'	53:B6:5:TRP:CD1	2.49	0.48
24:BA:1992:G:C2'	24:BA:1993:U:H5	2.27	0.48
24:BA:2261:C:O5'	24:BA:2261:C:C6	2.67	0.48
24:BA:2305:A:H1'	30:BG:155:MET:N	2.28	0.48
24:BA:249:C:H5	24:BA:2395:C:OP1	1.97	0.48
24:BA:2423:U:O2'	24:BA:2425:A:C3'	2.61	0.48
24:BA:2031:A:N6	24:BA:2498:C:H1'	2.25	0.48
3:AB:74:C:N3	24:BA:2555:U:C2	2.80	0.48
24:BA:2707:G:H2'	24:BA:2708:G:O5'	2.13	0.48
24:BA:270(T):G:H2'	24:BA:270(T):G:N3	2.29	0.48
24:BA:2746:U:C4	24:BA:2756:U:C5	2.98	0.48
24:BA:2827:C:H2'	24:BA:2828:C:C5'	2.43	0.48
24:BA:299:A:HO2'	24:BA:319:C:C2'	2.21	0.48
24:BA:322:A:C4'	24:BA:341:G:H5'	2.44	0.48
24:BA:354:G:O2'	24:BA:355:G:C5'	2.60	0.48
24:BA:383:U:C2	24:BA:385:C:C4	3.02	0.48
24:BA:403:U:C5'	24:BA:404:C:OP1	2.62	0.48
24:BA:468:G:C8	24:BA:469:G:C8	3.01	0.48
24:BA:510:C:P	24:BA:512:G:N1	2.74	0.48
24:BA:589:C:O2'	24:BA:590:A:H5'	2.13	0.48
24:BA:606:U:OP2	24:BA:606:U:C5	2.67	0.48
24:BA:61:G:C2	24:BA:62:C:C2	3.02	0.48
24:BA:673:C:C5'	29:BF:81:PRO:HG2	2.44	0.48
24:BA:685:A:N3	24:BA:688:U:N3	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:702:G:C2	24:BA:731:C:C2	3.02	0.48
24:BA:851:U:H1'	49:B2:46:ASN:HB2	1.96	0.48
24:BA:879:G:C2	24:BA:880:G:C8	3.01	0.48
25:BB:100:G:C6	25:BB:101:A:N6	2.82	0.48
25:BB:48:A:OP1	39:BR:92:TYR:CG	2.66	0.48
27:BD:123:ALA:HB3	27:BD:131:LEU:HD22	1.94	0.48
24:BA:1818:U:C4	27:BD:156:ALA:HB2	2.49	0.48
27:BD:149:PRO:HD3	27:BD:186:HIS:CE1	2.49	0.48
27:BD:226:MET:O	27:BD:227:ASN:C	2.53	0.48
27:BD:251:GLY:HA2	27:BD:255:LYS:HZ2	1.77	0.48
27:BD:6:PHE:C	27:BD:28:GLU:OE1	2.52	0.48
27:BD:45:ASN:C	27:BD:46:GLN:CG	2.81	0.48
27:BD:66:ASP:OD2	27:BD:103:ARG:NH1	2.45	0.48
28:BE:60:ASN:OD1	28:BE:61:ARG:N	2.47	0.48
28:BE:69:LYS:O	28:BE:70:ALA:O	2.32	0.48
28:BE:7:VAL:O	28:BE:193:GLY:N	2.47	0.48
29:BF:9:ILE:HG22	29:BF:10:PRO:N	2.28	0.48
29:BF:22:ALA:HB1	29:BF:115:ALA:CB	2.43	0.48
29:BF:181:LEU:CD1	29:BF:181:LEU:N	2.76	0.48
29:BF:123:LEU:HB2	29:BF:193:VAL:HA	1.95	0.48
29:BF:41:LEU:C	29:BF:41:LEU:HD12	2.34	0.48
30:BG:57:ALA:HA	30:BG:67:LYS:CA	2.44	0.48
31:BH:11:VAL:HG11	31:BH:17:VAL:HG11	1.94	0.48
31:BH:38:SER:CB	31:BH:41:MET:HG3	2.13	0.48
32:BK:24:GLY:O	32:BK:27:ARG:CB	2.62	0.48
33:BL:79:ARG:HG2	33:BL:136:VAL:HG21	1.94	0.48
34:BM:104:LYS:O	34:BM:105:GLY:C	2.52	0.48
34:BM:126:PRO:HB2	34:BM:127:ASP:OD2	2.13	0.48
34:BM:22:THR:CG2	34:BM:61:ARG:NH1	2.77	0.48
35:BN:113:LYS:HZ1	35:BN:117:LEU:HB2	1.79	0.48
35:BN:59:LYS:CD	35:BN:59:LYS:N	2.77	0.48
35:BN:6:THR:HA	35:BN:7:TYR:CE1	2.49	0.48
35:BN:86:ILE:CG2	35:BN:90:GLN:HA	2.43	0.48
36:BO:97:PRO:CA	36:BO:102:ARG:NE	2.75	0.48
24:BA:1244:G:C5'	36:BO:9:ASN:HB2	2.41	0.48
37:BP:11:LYS:HZ3	37:BP:73:PRO:HB3	1.78	0.48
37:BP:130:LYS:CE	37:BP:131:ILE:N	2.74	0.48
24:BA:955:C:H5''	37:BP:87:LYS:HD2	1.95	0.48
38:BQ:72:ASP:OD2	38:BQ:74:LYS:HB2	2.14	0.48
38:BQ:88:ARG:O	38:BQ:89:ASP:HB3	2.13	0.48
39:BR:38:GLN:CD	39:BR:40:ILE:HD11	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2320:A:C6	39:BR:4:LEU:HD13	2.48	0.48
39:BR:73:LEU:HA	39:BR:76:LYS:CD	2.42	0.48
41:BT:61:TRP:CZ3	41:BT:93:LYS:C	2.87	0.48
41:BT:72:HIS:CD2	41:BT:110:VAL:HG21	2.49	0.48
43:BV:13:SER:CB	43:BV:16:LYS:HE2	2.43	0.48
45:BX:26:LYS:CE	45:BX:36:ALA:HB3	2.44	0.48
46:BY:151:HIS:CD2	46:BY:170:THR:HA	2.48	0.48
47:BZ:53:MET:HE3	47:BZ:58:THR:C	2.33	0.48
32:BK:50:ARG:HA	32:BK:53:ALA:CB	2.44	0.48
32:BK:87:LYS:HB3	32:BK:121:LYS:HE3	1.95	0.48
24:BA:2133:G:C6	24:BA:2157:G:H1'	2.49	0.48
26:BC:115:ALA:CB	26:BC:123:VAL:HG21	2.43	0.48
24:BA:1586:A:O2'	24:BA:1587:A:N7	2.45	0.48
39:BR:56:LEU:HB3	39:BR:59:LYS:HZ2	1.78	0.48
24:BA:276:A:H2'	24:BA:276:A:N3	2.28	0.48
1:AA:102:G:C5	1:AA:103:C:C5	3.02	0.48
1:AA:1213:A:C5	1:AA:1215:G:C6	3.01	0.48
1:AA:1326:C:H2'	1:AA:1327:C:C6	2.45	0.48
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.40	0.48
1:AA:1389:C:C2'	1:AA:1390:U:C5'	2.88	0.48
1:AA:1431:C:N4	1:AA:1469:G:N1	2.56	0.48
1:AA:1433:A:N1	1:AA:1434:A:C2	2.82	0.48
1:AA:1476:G:C4	1:AA:1477:C:C5	3.02	0.48
1:AA:279:A:H4'	1:AA:280:C:O5'	2.14	0.48
1:AA:298:A:N6	1:AA:299:G:C2	2.82	0.48
1:AA:355:C:H42	1:AA:356:A:N6	2.12	0.48
1:AA:47:C:C5	1:AA:365:U:H2'	2.49	0.48
1:AA:414:A:N7	1:AA:430:A:N6	2.62	0.48
1:AA:439:A:C2	1:AA:496:A:H1'	2.49	0.48
1:AA:538:G:O2'	1:AA:539:A:H5'	2.14	0.48
1:AA:682:G:C6	1:AA:709:G:C6	3.02	0.48
1:AA:748:C:O2'	1:AA:749:C:H5'	2.14	0.48
1:AA:754:C:H5'	1:AA:755:G:H8	1.69	0.48
1:AA:769:G:O2'	1:AA:770:C:H5'	2.14	0.48
1:AA:832:C:C4	1:AA:833:U:O4	2.66	0.48
1:AA:922:G:H4'	7:AH:20:GLN:CA	2.27	0.48
1:AA:925:G:O2'	1:AA:927:G:OP1	2.19	0.48
3:AC:3:C:O2'	3:AC:4:C:O5'	2.31	0.48
4:AE:193:ASP:CG	4:AE:196:LEU:HD11	2.34	0.48
4:AE:187:LEU:HD23	4:AE:201:ILE:O	2.14	0.48
4:AE:76:GLN:O	4:AE:77:ALA:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:81:VAL:HB	4:AE:94:ASN:OD1	2.14	0.48
5:AF:11:ARG:O	5:AF:12:LEU:C	2.52	0.48
5:AF:182:ILE:CD1	5:AF:203:PHE:CD1	2.97	0.48
5:AF:36:ASP:HA	5:AF:39:ILE:CD1	2.40	0.48
6:AG:200:GLU:HG3	6:AG:201:GLN:NE2	2.29	0.48
7:AH:74:GLY:O	7:AH:115:VAL:CG1	2.60	0.48
9:AJ:125:MET:O	9:AJ:126:ASP:C	2.52	0.48
9:AJ:38:LEU:C	9:AJ:41:ARG:HB2	2.34	0.48
10:AK:122:ARG:O	10:AK:125:ARG:HB3	2.14	0.48
10:AK:37:ARG:CD	10:AK:38:ILE:HD13	2.34	0.48
11:AL:4:TYR:HB3	11:AL:87:GLN:HB2	1.95	0.48
11:AL:27:THR:CG2	11:AL:62:TYR:CE1	2.97	0.48
13:AN:85:ARG:NE	13:AN:113:PRO:HD3	2.28	0.48
13:AN:22:HIS:CD2	13:AN:22:HIS:C	2.87	0.48
14:AO:33:ARG:HG2	14:AO:60:LEU:CD2	2.43	0.48
1:AA:1329:A:H5'	15:AP:29:ARG:HE	1.72	0.48
15:AP:39:ILE:HG21	15:AP:56:LEU:CD1	2.44	0.48
15:AP:66:LEU:O	15:AP:70:LEU:HB2	2.13	0.48
15:AP:69:GLU:C	15:AP:71:ARG:N	2.66	0.48
15:AP:88:ARG:NH2	15:AP:92:HIS:CD2	2.81	0.48
15:AP:92:HIS:CA	15:AP:98:VAL:HG21	2.44	0.48
18:AS:10:GLY:HA3	18:AS:14:ASN:O	2.14	0.48
1:AA:137:C:H1'	18:AS:62:VAL:HA	1.96	0.48
21:AV:9:VAL:HG11	21:AV:39:THR:HG21	1.96	0.48
22:AW:17:ARG:O	22:AW:20:LEU:CB	2.59	0.48
48:B1:22:GLU:O	48:B1:25:ARG:HB2	2.13	0.48
25:BB:83:G:H5'	49:B2:52:HIS:CE1	2.48	0.48
50:B3:64:GLY:O	50:B3:68:ARG:NH1	2.46	0.48
51:B4:10:LYS:HD2	51:B4:15:ARG:CZ	2.44	0.48
52:B5:17:LYS:HZ2	52:B5:50:ARG:CG	2.27	0.48
52:B5:19:ARG:CD	52:B5:19:ARG:N	2.75	0.48
52:B5:19:ARG:CG	52:B5:19:ARG:HH11	1.97	0.48
53:B6:9:ARG:O	53:B6:10:ARG:O	2.32	0.48
54:B7:16:ILE:CD1	54:B7:60:LEU:HD22	2.42	0.48
54:B7:37:SER:O	54:B7:41:ILE:HG13	2.13	0.48
55:B8:19:ARG:HG3	55:B8:19:ARG:O	2.14	0.48
24:BA:1059:G:C5	24:BA:1060:U:H1'	2.48	0.48
24:BA:1086:A:C2'	24:BA:1086:A:N3	2.75	0.48
24:BA:1091:G:N1	24:BA:1101:U:O4	2.47	0.48
24:BA:1152:C:O2'	24:BA:1153:C:H5'	2.13	0.48
24:BA:1153:C:N1	24:BA:1154:G:N7	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1182:A:OP2	24:BA:1182:A:O4'	2.32	0.48
24:BA:1258:C:C2	24:BA:1259:G:C8	3.02	0.48
24:BA:1270:C:C4'	24:BA:1271:G:H5'	2.33	0.48
24:BA:1298:C:C4'	24:BA:1302:A:N6	2.76	0.48
24:BA:1313:U:C2	24:BA:1314:C:C5	3.02	0.48
24:BA:1419:A:C5	24:BA:1421:G:C6	3.01	0.48
24:BA:1432:C:C2	24:BA:1433:U:C2	3.02	0.48
24:BA:1464:C:O2'	24:BA:1465:G:H5'	2.14	0.48
24:BA:1528:A:H8	24:BA:1529:A:C4	2.31	0.48
24:BA:1547:C:HO2'	24:BA:1548:C:H5'	1.75	0.48
24:BA:1607:C:C2'	24:BA:1608:A:OP2	2.62	0.48
24:BA:1693:U:O4	24:BA:1977:A:C5	2.67	0.48
24:BA:1689:A:C6	24:BA:1698:A:H2	2.27	0.48
24:BA:1801:G:C6	24:BA:2207:C:O4'	2.67	0.48
24:BA:1926:U:N3	24:BA:1929:G:N2	2.62	0.48
24:BA:1927:A:N7	24:BA:1928:A:C6	2.82	0.48
24:BA:1947:C:C2'	24:BA:1948:G:H5'	2.44	0.48
24:BA:572:A:H61	24:BA:2029:G:C1'	2.26	0.48
24:BA:2057:A:C2'	24:BA:2058:A:H8	2.23	0.48
24:BA:2081:C:N3	24:BA:2082:A:C8	2.82	0.48
24:BA:2287:A:N1	24:BA:2346:A:C6	2.82	0.48
24:BA:2305:A:C2'	30:BG:154:GLY:CA	2.89	0.48
24:BA:2309:A:C5	24:BA:2310:A:C5	3.02	0.48
24:BA:2289:G:N2	24:BA:2344:U:C6	2.82	0.48
24:BA:2350:C:O2'	24:BA:2351:G:P	2.71	0.48
24:BA:2358:G:C2	24:BA:2359:C:C6	3.01	0.48
24:BA:2405:G:O5'	24:BA:2405:G:H8	1.97	0.48
24:BA:2472:G:N2	24:BA:2477:C:OP1	2.33	0.48
24:BA:2545:G:O2'	24:BA:2546:U:H5'	2.14	0.48
24:BA:253:C:C2'	24:BA:254:G:C5'	2.91	0.48
24:BA:265:A:H2'	24:BA:266:G:C1'	2.44	0.48
24:BA:2693:A:O2'	24:BA:2848:G:C5'	2.61	0.48
24:BA:270(K):C:H5''	24:BA:270(L):U:C5	2.49	0.48
24:BA:270(L):U:O2'	24:BA:270(M):U:OP1	2.32	0.48
24:BA:2746:U:OP1	31:BH:142:GLY:HA3	2.14	0.48
24:BA:2816:C:H1'	24:BA:2831:G:N2	2.29	0.48
24:BA:2838:G:C5	24:BA:2839:G:C8	3.02	0.48
24:BA:2868:A:H2'	24:BA:2869:G:O4'	2.14	0.48
24:BA:425:G:C2	24:BA:426:C:C5	3.01	0.48
24:BA:454:A:C8	24:BA:454:A:H3'	2.49	0.48
24:BA:557:U:O3'	34:BM:112:LEU:CD2	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:600:G:H4'	29:BF:105:VAL:HG13	1.96	0.48
24:BA:613:U:C5	24:BA:614:U:O2	2.65	0.48
24:BA:616:A:H1'	29:BF:180:GLY:CA	2.43	0.48
24:BA:791:C:H5'	24:BA:792:G:OP1	2.14	0.48
24:BA:822:U:H2'	24:BA:823:G:H8	1.79	0.48
24:BA:837:C:H2'	24:BA:838:C:O5'	2.14	0.48
24:BA:86:C:H2'	24:BA:87:C:H6	1.78	0.48
24:BA:889:C:O2'	24:BA:890:A:H4'	2.14	0.48
24:BA:936:C:O2'	24:BA:937:U:O5'	2.32	0.48
25:BB:45:A:C6	25:BB:46:A:C4	3.02	0.48
24:BA:729:G:OP1	27:BD:19:ALA:HB1	2.14	0.48
27:BD:6:PHE:O	27:BD:28:GLU:OE1	2.31	0.48
27:BD:29:PRO:C	27:BD:31:LYS:H	2.17	0.48
24:BA:1569:A:O3'	27:BD:39:LYS:HE2	2.13	0.48
27:BD:85:ASP:CB	27:BD:87:ASN:ND2	2.77	0.48
27:BD:9:TYR:O	27:BD:10:THR:CB	2.61	0.48
28:BE:51:PHE:CD1	28:BE:51:PHE:C	2.87	0.48
28:BE:55:ASN:HA	28:BE:58:ARG:NH2	2.28	0.48
29:BF:18:ARG:C	29:BF:19:GLU:CG	2.77	0.48
29:BF:26:ALA:O	29:BF:112:MET:SD	2.72	0.48
29:BF:30:PRO:HG2	29:BF:31:HIS:H	1.78	0.48
29:BF:34:TRP:O	29:BF:38:ARG:HD2	2.13	0.48
30:BG:121:ASN:CG	30:BG:133:LEU:HD21	2.34	0.48
25:BB:57:A:O4'	30:BG:29:TRP:CZ3	2.67	0.48
32:BK:5:LEU:CD2	32:BK:17:GLN:O	2.62	0.48
32:BK:25:TYR:N	32:BK:25:TYR:CD2	2.80	0.48
32:BK:5:LEU:HD21	32:BK:18:VAL:N	2.29	0.48
34:BM:47:ALA:O	34:BM:48:MET:C	2.51	0.48
35:BN:64:ARG:HE	35:BN:67:LYS:CA	2.27	0.48
24:BA:1667:G:O5'	35:BN:7:TYR:CD1	2.66	0.48
36:BO:18:ARG:O	36:BO:20:GLY:N	2.42	0.48
36:BO:49:ARG:HA	36:BO:52:GLU:CG	2.43	0.48
36:BO:49:ARG:HG2	36:BO:49:ARG:NH2	2.20	0.48
37:BP:122:GLY:O	37:BP:124:LYS:N	2.46	0.48
38:BQ:96:ARG:CZ	38:BQ:117:VAL:HG23	2.44	0.48
38:BQ:39:PRO:HA	38:BQ:42:LYS:HB2	1.94	0.48
38:BQ:61:HIS:O	38:BQ:62:ALA:C	2.51	0.48
39:BR:24:LEU:H	39:BR:86:ALA:HB1	1.77	0.48
39:BR:9:ARG:HA	39:BR:9:ARG:HD3	1.51	0.48
40:BS:31:SER:HA	40:BS:32:TYR:CE1	2.49	0.48
40:BS:65:LYS:NZ	40:BS:75:ILE:HD13	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:112:ARG:O	41:BT:115:ALA:N	2.47	0.48
24:BA:532:A:O2'	41:BT:28:ARG:HD3	2.14	0.48
41:BT:74:LEU:CG	41:BT:78:THR:HG21	2.43	0.48
41:BT:84:LYS:NZ	41:BT:90:VAL:HG11	2.29	0.48
41:BT:99:ALA:HB2	41:BT:106:PHE:CD1	2.48	0.48
42:BU:15:GLU:CA	42:BU:100:ARG:NH1	2.72	0.48
42:BU:20:LEU:CD1	42:BU:68:LYS:HG3	2.44	0.48
43:BV:32:ALA:HA	43:BV:35:ILE:HG22	1.96	0.48
43:BV:87:PRO:C	43:BV:94:ASP:OD1	2.52	0.48
45:BX:2:ARG:HD2	45:BX:3:VAL:CG2	2.44	0.48
46:BY:104:PHE:CZ	46:BY:120:ILE:CG2	2.91	0.48
46:BY:74:VAL:HG22	46:BY:87:ASP:H	1.79	0.48
47:BZ:40:GLN:O	47:BZ:57:PHE:CB	2.62	0.48
47:BZ:76:GLY:O	47:BZ:78:TYR:CD1	2.67	0.48
32:BK:111:PRO:CG	32:BK:112:LYS:HD2	2.41	0.48
3:AD:24:G:C6	3:AD:25:C:C4	3.02	0.48
26:BC:59:ARG:HB2	26:BC:164:ARG:HG2	1.96	0.48
3:AB:71:G:H21	3:AB:72:C:H1'	1.76	0.48
1:AA:1171:G:H2'	1:AA:1172:C:H6	1.78	0.48
1:AA:511:C:O2'	1:AA:512:U:O5'	2.32	0.48
12:AM:3:LYS:CD	12:AM:3:LYS:N	2.77	0.48
1:AA:1065:U:H2'	1:AA:1066:C:OP2	2.13	0.47
1:AA:1105:A:N3	1:AA:1106:G:C8	2.82	0.47
1:AA:1237:C:HO2'	1:AA:1300:G:H22	1.54	0.47
1:AA:978:A:N6	1:AA:1318:A:H61	2.12	0.47
1:AA:1371:G:O2'	1:AA:1372:U:H5'	2.13	0.47
1:AA:938:A:O2'	1:AA:1376:U:H4'	2.14	0.47
1:AA:142:G:N1	1:AA:143:A:C5	2.82	0.47
1:AA:1483:A:H3'	1:AA:1484:C:C6	2.49	0.47
1:AA:1490:C:H2'	1:AA:1491:G:O4'	2.14	0.47
1:AA:1502:A:C2	1:AA:1504:G:C4	3.01	0.47
1:AA:152:A:C8	1:AA:153:C:C6	3.02	0.47
1:AA:20:U:O4	1:AA:21:G:C6	2.68	0.47
1:AA:295:C:O2	1:AA:296:U:C1'	2.62	0.47
1:AA:428:G:HO2'	1:AA:429:U:P	2.38	0.47
1:AA:458:C:H3'	1:AA:464:G:C8	2.48	0.47
1:AA:497:U:O2'	1:AA:498:A:H5'	2.13	0.47
1:AA:52:G:C2'	1:AA:53:A:O4'	2.59	0.47
1:AA:573:A:C2	1:AA:574:A:N1	2.82	0.47
1:AA:62:U:C2	1:AA:63:C:C5	3.02	0.47
1:AA:673:G:C2	1:AA:674:G:N1	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:695:A:C2	1:AA:696:A:C4	3.02	0.47
1:AA:687:A:C2	1:AA:704:A:C6	3.01	0.47
1:AA:752:G:C2'	1:AA:753:A:OP2	2.61	0.47
1:AA:715:A:H4'	1:AA:777:A:H61	1.79	0.47
1:AA:570:G:O3'	1:AA:819:A:H2'	2.13	0.47
1:AA:830:G:C6	1:AA:857:C:C4	3.02	0.47
1:AA:909:A:C2	1:AA:910:C:C1'	2.97	0.47
1:AA:960:U:O2'	1:AA:961:U:P	2.72	0.47
1:AA:995:C:O2	16:AQ:4:LYS:NZ	2.47	0.47
3:AB:74:C:O2'	3:AB:75:C:H5'	2.14	0.47
3:AC:21:A:C8	3:AC:46:G:O6	2.67	0.47
3:AD:35:A:H2'	3:AD:36:A:C8	2.49	0.47
4:AE:193:ASP:OD1	4:AE:193:ASP:N	2.41	0.47
4:AE:50:GLU:O	4:AE:51:LEU:C	2.53	0.47
4:AE:74:LYS:O	4:AE:75:LYS:C	2.50	0.47
5:AF:148:GLY:HA3	5:AF:172:ARG:O	2.14	0.47
5:AF:64:VAL:O	5:AF:99:VAL:CG1	2.62	0.47
5:AF:64:VAL:HG12	5:AF:66:VAL:HG23	1.95	0.47
5:AF:77:ILE:HG22	5:AF:81:GLY:HA2	1.95	0.47
6:AG:104:VAL:O	6:AG:105:VAL:C	2.52	0.47
6:AG:123:HIS:CD2	6:AG:123:HIS:N	2.81	0.47
6:AG:191:ARG:CD	6:AG:192:GLU:N	2.69	0.47
7:AH:31:LEU:HD23	7:AH:31:LEU:O	2.14	0.47
7:AH:49:PRO:O	7:AH:50:GLU:HG2	2.14	0.47
8:AI:6:VAL:HG12	8:AI:6:VAL:O	2.15	0.47
9:AJ:106:GLN:NE2	9:AJ:109:ASN:ND2	2.62	0.47
9:AJ:113:GLU:OE2	9:AJ:119:ARG:CG	2.58	0.47
9:AJ:94:ARG:O	9:AJ:97:GLN:HB3	2.14	0.47
10:AK:48:TYR:HB3	10:AK:61:VAL:HG22	1.93	0.47
10:AK:63:LEU:CG	10:AK:65:TYR:HE1	2.27	0.47
10:AK:18:ARG:HH12	10:AK:78:GLN:CD	2.16	0.47
11:AL:28:VAL:C	11:AL:30:GLY:N	2.64	0.47
12:AM:16:LEU:HB3	12:AM:70:ARG:HG3	1.96	0.47
13:AN:102:GLY:O	13:AN:104:GLN:O	2.31	0.47
1:AA:691:G:N2	13:AN:51:LYS:HZ3	2.12	0.47
14:AO:42:THR:HA	14:AO:55:VAL:HG23	1.95	0.47
15:AP:7:VAL:HG11	30:BG:140:ILE:CD1	2.41	0.47
17:AR:8:LYS:HE2	17:AR:9:GLN:HE22	1.77	0.47
19:AT:59:ILE:HG13	19:AT:60:ILE:N	2.29	0.47
20:AU:51:LEU:HA	20:AU:52:PRO:HD2	1.48	0.47
20:AU:74:ARG:CA	20:AU:79:LEU:HD21	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:30:LEU:HD12	21:AV:59:PRO:HB3	1.95	0.47
21:AV:68:GLY:O	21:AV:69:HIS:CG	2.67	0.47
22:AW:85:MET:O	22:AW:86:ARG:C	2.52	0.47
49:B2:23:LEU:HD11	49:B2:53:LEU:CD1	2.40	0.47
51:B4:31:VAL:HB	51:B4:32:PRO:CD	2.44	0.47
52:B5:42:TRP:C	52:B5:42:TRP:CD1	2.87	0.47
53:B6:48:LYS:CG	53:B6:49:ARG:N	2.45	0.47
36:BO:56:SER:OG	54:B7:13:ARG:NE	2.47	0.47
54:B7:4:MET:HB3	54:B7:7:HIS:NE2	2.27	0.47
55:B8:19:ARG:HG3	55:B8:22:ARG:HB2	1.96	0.47
24:BA:2465:C:O3'	55:B8:5:ALA:HB3	2.14	0.47
24:BA:1022:G:C6	24:BA:1139:G:N1	2.82	0.47
24:BA:1047:G:N1	24:BA:1110:G:N7	2.62	0.47
24:BA:1241:A:HO2'	24:BA:1242:A:H8	1.62	0.47
24:BA:1248:G:O2'	24:BA:1249:U:P	2.73	0.47
24:BA:1275:A:O2'	24:BA:1276:A:O5'	2.17	0.47
24:BA:1295:C:C2	24:BA:1296:G:N7	2.83	0.47
24:BA:1305:C:H2'	24:BA:1306:C:H6	1.78	0.47
24:BA:1334:G:C6	24:BA:1335:U:C4	3.01	0.47
24:BA:137(A):G:C6	24:BA:138:G:O6	2.66	0.47
24:BA:1467:C:C4'	24:BA:1467:C:OP1	2.62	0.47
24:BA:149:A:C5	24:BA:150:C:C5	3.01	0.47
24:BA:1515:C:H6	24:BA:1515:C:P	2.37	0.47
24:BA:1612:C:H1'	53:B6:6:GLN:NE2	2.29	0.47
24:BA:1613:G:C2'	24:BA:1614:A:OP1	2.62	0.47
24:BA:1703:G:C2'	24:BA:1704:G:H5'	2.44	0.47
24:BA:48:G:N2	24:BA:177:G:N7	2.62	0.47
1:AA:702:A:N1	24:BA:1848:A:C5	2.82	0.47
24:BA:1878:G:C6	24:BA:1879:C:C4	3.02	0.47
24:BA:1968:G:H2'	24:BA:1969:A:OP2	2.14	0.47
24:BA:2063:C:H2'	24:BA:2064:C:O4'	2.13	0.47
24:BA:2065:C:C5	24:BA:2066:C:C5	3.02	0.47
24:BA:2093:G:C2'	24:BA:2094:G:O5'	2.61	0.47
24:BA:2320:A:P	24:BA:2320:A:H8	2.36	0.47
24:BA:2324:C:C2'	24:BA:2325:G:OP1	2.61	0.47
24:BA:2365:G:OP1	47:BZ:55:ARG:CG	2.62	0.47
24:BA:2406:U:O5'	24:BA:2407:G:OP1	2.32	0.47
24:BA:2397:G:C2	24:BA:2420:C:C2	3.02	0.47
24:BA:2484:G:H4'	37:BP:46:GLN:HA	1.96	0.47
24:BA:2485:G:O2'	24:BA:2486:G:C5'	2.62	0.47
24:BA:2031:A:N6	24:BA:2498:C:C6	2.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2627:G:N2	24:BA:2628:C:C6	2.81	0.47
24:BA:2741:A:H2'	24:BA:2742:C:H6	1.78	0.47
24:BA:2805:G:C5	24:BA:2807:G:C8	2.99	0.47
24:BA:279:C:H2'	24:BA:280:C:C5	2.48	0.47
24:BA:2839:G:C5	24:BA:2840:C:C5	3.02	0.47
24:BA:295:G:N2	24:BA:296:C:C2	2.82	0.47
24:BA:307:G:O2'	24:BA:309:G:N7	2.35	0.47
24:BA:417:C:O2'	24:BA:418:G:H5'	2.14	0.47
24:BA:445:C:H5''	41:BT:3:ARG:HG2	1.95	0.47
24:BA:455:C:H5'	24:BA:456:C:OP1	2.14	0.47
24:BA:625:G:C6	36:BO:100:LEU:HB3	2.49	0.47
24:BA:642:G:C3'	24:BA:642:G:C8	2.96	0.47
24:BA:721:C:O2'	24:BA:722:A:H5'	2.14	0.47
24:BA:740:U:C5	24:BA:741:G:N7	2.82	0.47
24:BA:786:C:H2'	24:BA:787:U:O4'	2.14	0.47
24:BA:917:A:C8	24:BA:918:A:H5'	2.48	0.47
24:BA:848:G:N2	24:BA:933:A:H1'	2.22	0.47
24:BA:977:G:C6	24:BA:987:G:C5	3.02	0.47
25:BB:31:C:N4	25:BB:32:C:H41	2.12	0.47
27:BD:10:THR:H	27:BD:23:GLU:CD	2.14	0.47
27:BD:89:SER:C	27:BD:159:ALA:HB2	2.34	0.47
27:BD:23:GLU:OE1	27:BD:24:ILE:O	2.30	0.47
27:BD:75:ILE:O	27:BD:76:PRO:O	2.32	0.47
24:BA:1656:C:O3'	28:BE:136:ARG:NH2	2.47	0.47
28:BE:80:GLU:O	28:BE:83:ASP:OD2	2.31	0.47
29:BF:132:VAL:HG23	29:BF:135:LYS:HB2	1.96	0.47
29:BF:135:LYS:HD3	29:BF:136:THR:N	2.29	0.47
29:BF:181:LEU:O	29:BF:182:ASN:HB3	2.13	0.47
29:BF:37:VAL:O	29:BF:184:TYR:CZ	2.66	0.47
29:BF:18:ARG:CG	29:BF:18:ARG:NH1	2.72	0.47
29:BF:125:LEU:HB2	29:BF:194:MET:O	2.14	0.47
29:BF:77:ASP:C	29:BF:77:ASP:OD1	2.52	0.47
24:BA:673:C:O4'	29:BF:82:ILE:HG21	2.14	0.47
31:BH:149:ARG:NH2	31:BH:164:TYR:HD1	2.09	0.47
31:BH:65:HIS:O	31:BH:66:GLY:C	2.53	0.47
31:BH:9:ILE:O	31:BH:50:VAL:O	2.32	0.47
32:BK:34:GLY:H	32:BK:35:LEU:HD22	1.78	0.47
34:BM:33:LEU:HD11	34:BM:52:VAL:CG2	2.44	0.47
34:BM:7:LYS:HD3	34:BM:39:ARG:NH2	2.28	0.47
34:BM:42:TRP:C	34:BM:43:THR:OG1	2.51	0.47
34:BM:42:TRP:O	34:BM:43:THR:CB	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:672:C:C6	36:BO:38:GLN:CD	2.88	0.47
36:BO:7:ARG:H	36:BO:8:PRO:HD2	1.78	0.47
36:BO:95:VAL:C	36:BO:97:PRO:CD	2.79	0.47
37:BP:32:TYR:CB	37:BP:105:GLU:O	2.53	0.47
37:BP:120:ILE:O	37:BP:124:LYS:HG2	2.14	0.47
38:BQ:33:ARG:NH2	51:B4:56:LYS:CE	2.77	0.47
38:BQ:71:GLN:O	38:BQ:72:ASP:HB2	2.14	0.47
38:BQ:87:TYR:HD1	38:BQ:94:TYR:CG	2.32	0.47
39:BR:103:GLU:CA	39:BR:106:ARG:HB3	2.43	0.47
39:BR:6:ALA:CA	39:BR:9:ARG:HH12	2.23	0.47
40:BS:108:ARG:O	40:BS:109:GLU:C	2.52	0.47
40:BS:70:VAL:CB	40:BS:74:ARG:HH11	2.14	0.47
41:BT:108:GLU:CA	41:BT:111:GLU:HG2	2.44	0.47
41:BT:89:GLU:C	41:BT:90:VAL:HG23	2.35	0.47
44:BW:35:THR:HG22	44:BW:36:LYS:N	2.29	0.47
46:BY:29:TYR:CD2	46:BY:89:PHE:CE2	3.01	0.47
25:BB:75:G:N2	46:BY:87:ASP:CG	2.66	0.47
47:BZ:72:ARG:HD2	47:BZ:75:LEU:HD22	1.95	0.47
32:BK:58:LEU:HB3	32:BK:62:LYS:HE3	1.95	0.47
32:BK:83:ALA:HA	32:BK:89:TYR:CZ	2.49	0.47
24:BA:2110:G:OP2	24:BA:2110:G:H8	1.96	0.47
26:BC:89:ALA:HB1	26:BC:154:ARG:HA	1.95	0.47
24:BA:1039:G:N2	24:BA:1115:G:H22	2.11	0.47
24:BA:1115:G:N2	24:BA:1116:C:O2	2.47	0.47
24:BA:1416:G:H2'	24:BA:1417:C:C5	2.49	0.47
2:A1:48:U:OP2	2:A1:48:U:C6	2.64	0.47
25:BB:93:C:H2'	25:BB:94:C:C6	2.48	0.47
1:AA:73:G:C2	1:AA:74:C:C2	3.02	0.47
32:BK:117:GLU:OE1	32:BK:117:GLU:N	2.43	0.47
2:A1:17:U:O2'	2:A1:18:U:OP1	2.29	0.47
1:AA:1006:C:O2	1:AA:1006:C:C2'	2.61	0.47
1:AA:1067:A:H2	1:AA:1068:G:C4	2.32	0.47
1:AA:108:G:C5	22:AW:15:ARG:NE	2.83	0.47
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.94	0.47
1:AA:1224:G:O6	1:AA:1322:C:H4'	2.14	0.47
1:AA:1261:A:N3	1:AA:1261:A:H2'	2.28	0.47
1:AA:1323:G:C2	1:AA:1324:A:C5	3.02	0.47
1:AA:13:U:C5'	1:AA:13:U:H6	2.27	0.47
1:AA:145:G:C2	1:AA:178:C:C2	3.01	0.47
1:AA:141:A:C4'	1:AA:182:U:H1'	2.44	0.47
1:AA:186(A):C:C2'	1:AA:186(B):C:H5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:230:G:N1	1:AA:231:G:C4	2.82	0.47
1:AA:258:G:C4	1:AA:259:G:N7	2.82	0.47
1:AA:290:C:H2'	1:AA:291:C:C5'	2.44	0.47
1:AA:362:G:H4'	14:AO:28:LYS:NZ	2.28	0.47
1:AA:433:C:N4	1:AA:434:U:O4	2.48	0.47
1:AA:52:G:C4	1:AA:53:A:C8	3.02	0.47
1:AA:541:G:C8	1:AA:541:G:OP2	2.67	0.47
1:AA:55:A:HO2'	1:AA:56:U:H5'	1.78	0.47
1:AA:575:G:O2'	1:AA:576:G:H5'	2.15	0.47
1:AA:57:G:C6	1:AA:58:C:C4	3.02	0.47
1:AA:665:A:C2	1:AA:732:C:C4	3.02	0.47
1:AA:68:G:H21	1:AA:152:A:H1'	1.78	0.47
1:AA:729:A:C2'	1:AA:730:G:O5'	2.62	0.47
1:AA:812:C:C2'	1:AA:813:U:OP2	2.62	0.47
1:AA:904:C:H2'	1:AA:905:U:C6	2.49	0.47
1:AA:932:C:O2	1:AA:932:C:H2'	2.14	0.47
1:AA:972:C:P	12:AM:57:LYS:NZ	2.86	0.47
3:AC:30:G:N3	3:AC:31:A:H1'	2.29	0.47
4:AE:178:ARG:CA	4:AE:184:VAL:HG21	2.40	0.47
4:AE:189:ASP:CG	4:AE:205:ASP:CG	2.71	0.47
4:AE:84:GLU:CD	4:AE:234:PRO:HD2	2.34	0.47
4:AE:45:GLN:O	4:AE:49:GLU:OE2	2.32	0.47
5:AF:18:TRP:CZ2	16:AQ:55:GLY:O	2.67	0.47
6:AG:193:ASP:C	6:AG:194:LEU:HD22	2.34	0.47
1:AA:540:G:N2	6:AG:42:GLN:NE2	2.56	0.47
9:AJ:119:ARG:O	9:AJ:120:ILE:C	2.52	0.47
9:AJ:71:PRO:CA	9:AJ:138:LYS:HE3	2.43	0.47
9:AJ:139:GLU:O	9:AJ:143:ARG:HG3	2.14	0.47
10:AK:103:VAL:CG1	10:AK:108:GLY:HA3	2.44	0.47
10:AK:25:ASP:HA	10:AK:59:LEU:O	2.14	0.47
10:AK:67:PRO:N	10:AK:76:PRO:HB3	2.29	0.47
12:AM:9:ARG:O	12:AM:9:ARG:HG3	2.14	0.47
13:AN:114:VAL:HG23	13:AN:115:PRO:HD2	1.96	0.47
14:AO:48:PRO:HG3	14:AO:92:ASP:OD1	2.14	0.47
14:AO:53:ARG:CZ	14:AO:92:ASP:OD2	2.62	0.47
17:AR:55:GLY:O	17:AR:56:LEU:C	2.51	0.47
17:AR:59:MET:O	17:AR:63:ARG:HG2	2.15	0.47
20:AU:17:SER:CB	20:AU:54:ARG:NH1	2.77	0.47
20:AU:87:ARG:HG2	20:AU:87:ARG:HH11	1.79	0.47
22:AW:100:ILE:C	22:AW:102:GLY:H	2.14	0.47
22:AW:86:ARG:CG	22:AW:87:LYS:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:25:ARG:O	48:B1:28:MET:CB	2.61	0.47
24:BA:95:G:C2'	48:B1:43:HIS:NE2	2.72	0.47
49:B2:16:PRO:O	49:B2:19:GLN:N	2.47	0.47
49:B2:52:HIS:CG	49:B2:53:LEU:N	2.82	0.47
50:B3:14:ILE:HG13	50:B3:38:LYS:O	2.15	0.47
50:B3:24:THR:O	50:B3:25:TYR:CD2	2.66	0.47
53:B6:43:THR:O	53:B6:45:ALA:N	2.46	0.47
54:B7:4:MET:HE1	54:B7:62:LEU:CD1	2.44	0.47
24:BA:1004:C:H1'	24:BA:1010:A:H2'	1.96	0.47
24:BA:108:U:C2	24:BA:109:G:C8	3.02	0.47
24:BA:1107:G:H2'	24:BA:1108:U:C5'	2.42	0.47
24:BA:1165:U:O2'	24:BA:1166:C:O4'	2.32	0.47
24:BA:1203:G:N1	24:BA:1206:G:N1	2.59	0.47
24:BA:1250:G:O3'	24:BA:1251:C:C4'	2.61	0.47
24:BA:1267:U:C5	24:BA:1268:A:N7	2.82	0.47
24:BA:1270:C:O5'	24:BA:1270:C:C6	2.67	0.47
24:BA:1299:G:O3'	24:BA:1300:U:C6	2.67	0.47
24:BA:1324:G:O3'	24:BA:1325:G:H4'	2.14	0.47
24:BA:1392:A:N6	24:BA:1393:A:N6	2.62	0.47
24:BA:1402:C:N4	24:BA:1403:C:N4	2.62	0.47
24:BA:1464:C:H5'	24:BA:1528:A:HO2'	1.75	0.47
24:BA:120:U:H1'	24:BA:149:A:C4	2.49	0.47
24:BA:1513:C:H6	24:BA:1513:C:H5''	1.79	0.47
24:BA:1558:A:C2	24:BA:1560:G:N9	2.79	0.47
24:BA:1619:G:N1	24:BA:1620:G:C5	2.83	0.47
24:BA:1621:U:H6	24:BA:1621:U:H3'	1.79	0.47
24:BA:1684:C:O2	24:BA:1685:C:C6	2.67	0.47
24:BA:1689:A:N3	24:BA:1690:A:N7	2.62	0.47
24:BA:1725:G:N1	24:BA:1726:G:C8	2.82	0.47
24:BA:1729:A:C8	24:BA:1730:U:O4'	2.68	0.47
24:BA:1859:A:H8	24:BA:1859:A:O5'	1.96	0.47
24:BA:1786:A:C5'	24:BA:1938:A:H61	2.26	0.47
24:BA:1936:A:H1'	24:BA:1940:U:C2	2.49	0.47
1:AA:1483:A:H2	24:BA:1960:A:H1'	1.78	0.47
24:BA:1966:A:C2'	24:BA:1967:C:OP2	2.62	0.47
24:BA:2020:A:H2'	24:BA:2021:C:C5'	2.34	0.47
24:BA:2075:U:O2	24:BA:2076:U:O5'	2.31	0.47
24:BA:2312:U:H2'	24:BA:2313:C:H6	1.78	0.47
24:BA:2322:A:OP1	24:BA:2322:A:O4'	2.31	0.47
24:BA:2346:A:H2	24:BA:2383:G:C2	2.32	0.47
24:BA:2387:U:O5'	24:BA:2387:U:H6	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2399:G:C2	52:B5:21:TYR:OH	2.63	0.47
24:BA:2406:U:O2'	36:BO:67:MET:CG	2.62	0.47
24:BA:410:G:N2	24:BA:2407:G:N7	2.63	0.47
24:BA:2449:U:P	24:BA:2449:U:O4'	2.72	0.47
24:BA:253:C:C2'	24:BA:254:G:O5'	2.62	0.47
24:BA:2690:C:H6	24:BA:2690:C:C3'	2.09	0.47
24:BA:2691:C:O4'	24:BA:2872:G:C6	2.67	0.47
24:BA:271:G:C5	24:BA:404:C:N4	2.82	0.47
24:BA:2827:C:C2'	24:BA:2828:C:H5'	2.44	0.47
24:BA:29:U:C2	24:BA:30:G:O6	2.67	0.47
24:BA:323:G:C2	24:BA:333:G:H1'	2.49	0.47
24:BA:393:C:C2'	24:BA:394:A:H5'	2.43	0.47
24:BA:470:A:N3	24:BA:471:A:C1'	2.76	0.47
24:BA:48:G:O5'	24:BA:48:G:H8	1.97	0.47
24:BA:532:A:O3'	41:BT:28:ARG:HD2	2.15	0.47
24:BA:548:A:H3'	24:BA:549:G:C4'	2.43	0.47
24:BA:661:C:H2'	24:BA:662:G:O4'	2.14	0.47
24:BA:705:A:H2	24:BA:706:A:C1'	2.27	0.47
24:BA:718:A:C5'	24:BA:719:C:C5	2.94	0.47
24:BA:836:G:C4	24:BA:837:C:C5	3.01	0.47
25:BB:61:G:C2	25:BB:62:C:C2	3.01	0.47
27:BD:147:LEU:O	27:BD:154:LYS:HE3	2.13	0.47
27:BD:34:VAL:C	27:BD:36:PRO:HD2	2.34	0.47
27:BD:33:LEU:CD1	27:BD:61:LEU:HD11	2.44	0.47
27:BD:72:LYS:HZ2	27:BD:75:ILE:HD12	1.78	0.47
28:BE:102:VAL:HA	28:BE:202:LYS:HZ2	1.77	0.47
28:BE:118:LYS:CA	28:BE:118:LYS:CE	2.85	0.47
24:BA:1656:C:C5'	28:BE:136:ARG:NH1	2.77	0.47
29:BF:119:ARG:HD3	29:BF:120:GLU:OE1	2.14	0.47
29:BF:136:THR:O	29:BF:137:LYS:C	2.52	0.47
29:BF:6:VAL:CB	29:BF:18:ARG:HD2	2.41	0.47
29:BF:194:MET:SD	29:BF:197:ASP:HB3	2.54	0.47
29:BF:64:ILE:C	29:BF:64:ILE:HD13	2.33	0.47
29:BF:88:VAL:O	29:BF:89:VAL:O	2.32	0.47
30:BG:21:ARG:O	30:BG:22:ARG:C	2.52	0.47
30:BG:47:LYS:HB3	30:BG:72:ARG:CB	2.44	0.47
31:BH:101:ARG:NE	31:BH:101:ARG:HA	2.29	0.47
31:BH:146:ALA:O	31:BH:147:ASN:C	2.52	0.47
31:BH:17:VAL:HG13	31:BH:17:VAL:O	2.14	0.47
31:BH:6:ARG:C	31:BH:7:LEU:HD23	2.34	0.47
33:BL:17:ALA:O	33:BL:38:VAL:CG1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:18:ALA:O	34:BM:19:GLU:C	2.53	0.47
24:BA:1139:G:OP1	34:BM:63:THR:HG21	2.14	0.47
34:BM:74:ARG:HG2	34:BM:76:SER:CB	2.43	0.47
35:BN:23:ARG:H	35:BN:40:VAL:CG1	2.26	0.47
35:BN:9:GLU:CB	35:BN:81:ASP:O	2.62	0.47
35:BN:92:GLU:CD	35:BN:113:LYS:HB3	2.34	0.47
36:BO:96:THR:CB	36:BO:102:ARG:HD3	2.44	0.47
36:BO:47:ASP:CB	36:BO:48:PRO:HD3	2.44	0.47
36:BO:81:GLN:C	36:BO:86:LYS:CG	2.83	0.47
37:BP:63:LYS:NZ	37:BP:64:ILE:HG13	2.29	0.47
38:BQ:50:HIS:O	38:BQ:53:HIS:CB	2.60	0.47
39:BR:106:ARG:NH1	39:BR:110:LEU:CB	2.63	0.47
41:BT:91:ASP:OD2	42:BU:10:LYS:HD3	2.14	0.47
41:BT:93:LYS:CG	42:BU:10:LYS:NZ	2.68	0.47
24:BA:495:G:O4'	43:BV:57:ASN:CG	2.53	0.47
43:BV:59:VAL:HA	43:BV:63:ASP:O	2.14	0.47
43:BV:25:ARG:HA	43:BV:71:VAL:CG2	2.44	0.47
43:BV:88:ARG:HE	43:BV:88:ARG:CA	2.26	0.47
44:BW:72:LYS:O	44:BW:73:ARG:CB	2.47	0.47
46:BY:44:PHE:O	46:BY:48:PHE:CD1	2.67	0.47
3:AD:18:G:H2'	3:AD:19:G:O4'	2.14	0.47
24:BA:2163:C:OP1	24:BA:2172:U:C5	2.67	0.47
26:BC:102:LYS:HZ1	26:BC:107:TRP:HB2	1.78	0.47
26:BC:22:ILE:CD1	26:BC:190:ARG:NH2	2.76	0.47
1:AA:1011:G:C2	1:AA:1012:U:H1'	2.49	0.47
6:AG:159:ARG:HD2	6:AG:163:GLU:CD	2.34	0.47
50:B3:50:VAL:O	50:B3:51:ASP:CB	2.62	0.47
2:A1:10:U:O2'	2:A1:12:U:H5	1.95	0.47
1:AA:1066:C:C3'	1:AA:1067:A:C8	2.90	0.47
1:AA:1151:A:N6	1:AA:1152:A:C5	2.82	0.47
1:AA:1212:U:O4'	1:AA:1212:U:OP2	2.32	0.47
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.77	0.47
1:AA:1407:C:H6	1:AA:1407:C:O5'	1.97	0.47
1:AA:1409:C:O5'	1:AA:1409:C:H6	1.96	0.47
1:AA:198:G:C2	1:AA:199:G:C8	3.03	0.47
1:AA:208:U:H2'	1:AA:208:U:O2	2.14	0.47
1:AA:292:G:OP2	1:AA:293:G:N7	2.47	0.47
1:AA:406:G:N2	1:AA:437:U:O2	2.47	0.47
1:AA:444:C:O2'	1:AA:445:G:H5'	2.14	0.47
1:AA:464:G:N2	1:AA:474:G:O6	2.47	0.47
1:AA:520:A:OP2	14:AO:51:ALA:CB	2.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:521:G:C6	1:AA:529:G:N2	2.82	0.47
1:AA:640:A:H2'	1:AA:641:U:H5'	1.94	0.47
1:AA:644:G:H2'	1:AA:645:C:H5'	1.96	0.47
1:AA:648:A:C2	1:AA:649:G:C8	3.03	0.47
1:AA:718:G:N7	1:AA:719:C:N4	2.62	0.47
1:AA:778:G:C2	1:AA:779:C:C6	3.02	0.47
1:AA:849:C:O2'	1:AA:850:U:H5'	2.14	0.47
1:AA:862:C:N3	1:AA:863:U:H5	2.12	0.47
3:AB:30:G:O6	3:AB:41:C:N4	2.47	0.47
3:AC:57:G:OP1	30:BG:81:LYS:NZ	2.35	0.47
4:AE:101:MET:HA	4:AE:104:ASN:OD1	2.15	0.47
4:AE:24:TRP:CZ2	4:AE:26:PRO:HA	2.49	0.47
6:AG:59:ARG:HH22	6:AG:66:ARG:NH1	2.07	0.47
8:AI:45:LEU:HD23	8:AI:59:TYR:CB	2.44	0.47
10:AK:114:THR:H	10:AK:119:LEU:CD2	2.26	0.47
1:AA:1368:G:P	11:AL:112:LYS:O	2.73	0.47
11:AL:113:LYS:HB2	11:AL:114:TYR:H	1.39	0.47
12:AM:15:THR:HG21	12:AM:93:GLY:O	2.14	0.47
13:AN:80:VAL:N	13:AN:104:GLN:NE2	2.56	0.47
13:AN:91:ARG:CD	13:AN:95:ILE:HD11	2.44	0.47
14:AO:110:VAL:HG21	14:AO:113:ARG:HG3	1.95	0.47
14:AO:5:PRO:HB3	14:AO:10:LEU:CD1	2.40	0.47
14:AO:34:ARG:N	14:AO:84:LEU:HD12	2.29	0.47
15:AP:92:HIS:CE1	15:AP:110:ARG:NH2	2.83	0.47
16:AQ:27:CYS:SG	16:AQ:42:ILE:HG13	2.54	0.47
17:AR:81:LEU:O	17:AR:85:LEU:HD12	2.14	0.47
18:AS:71:ARG:NH1	18:AS:71:ARG:HB2	2.29	0.47
19:AT:5:VAL:CG1	19:AT:6:LEU:H	2.27	0.47
20:AU:71:LYS:O	20:AU:73:ALA:N	2.47	0.47
21:AV:52:TYR:OH	21:AV:55:LYS:HA	2.13	0.47
21:AV:78:ARG:O	21:AV:79:THR:OG1	2.21	0.47
49:B2:4:LEU:HD23	49:B2:4:LEU:C	2.35	0.47
50:B3:33:VAL:CG1	50:B3:35:VAL:CG2	2.92	0.47
53:B6:8:ASN:HD22	53:B6:9:ARG:N	2.12	0.47
54:B7:49:VAL:O	54:B7:53:PRO:HD3	2.14	0.47
54:B7:5:LYS:HG2	54:B7:7:HIS:HA	1.97	0.47
24:BA:1022:G:O6	34:BM:65:LYS:NZ	2.43	0.47
24:BA:1106:G:H8	24:BA:1106:G:O5'	1.96	0.47
24:BA:1169:G:H2'	24:BA:1170:G:C1'	2.44	0.47
24:BA:1181:C:H2'	24:BA:1182:A:O4'	2.14	0.47
24:BA:1223:C:C2	24:BA:1225:C:H5''	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1238:G:N1	24:BA:1239:G:C5	2.82	0.47
24:BA:128:C:C4	24:BA:129:C:N4	2.81	0.47
24:BA:1381:G:O6	24:BA:1382:G:C6	2.67	0.47
24:BA:144:C:H2'	24:BA:145:G:C5'	2.45	0.47
24:BA:151:C:C2'	24:BA:152:G:C8	2.96	0.47
24:BA:1676:A:O2'	24:BA:1677:A:H5'	2.13	0.47
24:BA:1800:C:C4	24:BA:1818:U:C2	3.02	0.47
24:BA:1829:A:N3	24:BA:1829:A:H2'	2.29	0.47
24:BA:1913:A:N3	24:BA:1916:A:C2	2.82	0.47
24:BA:1936:A:C4	24:BA:1945:G:C6	3.02	0.47
24:BA:1970:A:O2'	24:BA:1971:A:OP2	2.27	0.47
24:BA:200:U:C4	24:BA:201:C:C1'	2.96	0.47
24:BA:2021:C:O4'	24:BA:2021:C:OP1	2.32	0.47
24:BA:2053:G:C2	24:BA:2054:A:C8	3.02	0.47
24:BA:2091:U:O2'	24:BA:2092:U:OP1	2.28	0.47
24:BA:2371:G:O2'	24:BA:2372:G:C1'	2.62	0.47
24:BA:2373:G:HO2'	24:BA:2374:C:H6	1.59	0.47
24:BA:2380:C:N4	24:BA:2381:C:N4	2.62	0.47
24:BA:2416:C:N3	24:BA:2417:C:C5	2.82	0.47
3:AD:76:A:C2	24:BA:2432:A:O4'	2.67	0.47
24:BA:2458:G:N7	24:BA:2490:G:C5	2.82	0.47
24:BA:2471:C:H2'	24:BA:2472:G:C5'	2.44	0.47
24:BA:2597:G:C6	24:BA:2598:A:C6	3.02	0.47
24:BA:14:A:H2	24:BA:2625:G:O2'	1.97	0.47
24:BA:2687:U:O2	24:BA:2688:U:C6	2.60	0.47
24:BA:2720:U:C3'	24:BA:2721:A:C8	2.96	0.47
24:BA:2645:G:O2'	24:BA:2732:G:O3'	2.29	0.47
24:BA:2817:G:C5	24:BA:2818:G:N7	2.82	0.47
24:BA:282:A:C6	24:BA:283:A:H4'	2.49	0.47
24:BA:28:A:N3	24:BA:29:U:C4'	2.77	0.47
24:BA:393:C:O2'	24:BA:394:A:H5'	2.14	0.47
24:BA:427:U:O2'	24:BA:428:A:C1'	2.62	0.47
24:BA:443:A:C5	29:BF:45:ARG:NH2	2.82	0.47
24:BA:468:G:H2'	24:BA:469:G:C4'	2.43	0.47
24:BA:673:C:N3	24:BA:808:G:N2	2.62	0.47
24:BA:740:U:O5'	24:BA:1784:A:C2	2.67	0.47
24:BA:730:C:C5'	24:BA:761:A:OP1	2.63	0.47
24:BA:781:A:O2'	27:BD:222:ARG:NH1	2.46	0.47
24:BA:6:A:N3	24:BA:7:G:C8	2.82	0.47
24:BA:900:A:H2'	24:BA:901:A:C5'	2.44	0.47
24:BA:903:C:H2'	24:BA:904:C:H6	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:912:C:C2'	24:BA:913:U:H5'	2.43	0.47
24:BA:820:A:C2	24:BA:943:U:H2'	2.48	0.47
24:BA:569:U:OP1	24:BA:945:A:N1	2.47	0.47
24:BA:961:C:N4	24:BA:2031:A:H1'	2.29	0.47
25:BB:103:U:O2'	46:BY:72:ARG:HB2	2.15	0.47
25:BB:49:C:H2'	25:BB:50:G:O4'	2.15	0.47
27:BD:208:LYS:CE	27:BD:211:ARG:NE	2.78	0.47
24:BA:781:A:O2'	27:BD:222:ARG:CZ	2.62	0.47
27:BD:37:LEU:CD2	27:BD:63:ARG:HE	2.27	0.47
29:BF:162:LEU:HA	29:BF:165:ARG:HB3	1.95	0.47
29:BF:37:VAL:O	29:BF:41:LEU:HG	2.14	0.47
29:BF:44:ARG:O	29:BF:45:ARG:O	2.32	0.47
30:BG:125:PHE:CD1	30:BG:131:TYR:C	2.88	0.47
30:BG:41:GLN:NE2	30:BG:155:MET:CA	2.75	0.47
31:BH:102:ALA:HA	31:BH:115:VAL:HG12	1.94	0.47
31:BH:157:TYR:C	31:BH:157:TYR:HD1	2.18	0.47
31:BH:29:PRO:CD	31:BH:30:LYS:H	2.27	0.47
32:BK:4:ILE:HG23	32:BK:18:VAL:HG21	1.95	0.47
33:BL:10:LEU:CD1	33:BL:27:LEU:HD11	2.44	0.47
33:BL:115:LEU:HD12	33:BL:118:THR:HA	1.95	0.47
34:BM:26:LEU:O	34:BM:30:ILE:CG1	2.60	0.47
34:BM:55:VAL:O	34:BM:56:ASN:C	2.50	0.47
34:BM:67:LEU:O	34:BM:68:GLU:HG3	2.14	0.47
35:BN:1:MET:HG3	35:BN:2:ILE:N	2.28	0.47
35:BN:97:ARG:O	35:BN:97:ARG:CD	2.62	0.47
36:BO:24:GLY:O	36:BO:25:SER:C	2.52	0.47
37:BP:16:ARG:HG3	37:BP:72:LYS:CB	2.41	0.47
37:BP:99:PRO:HD2	37:BP:101:ARG:CZ	2.44	0.47
38:BQ:96:ARG:HH21	38:BQ:117:VAL:HG23	1.80	0.47
38:BQ:22:ARG:O	38:BQ:26:LYS:HG3	2.15	0.47
28:BE:110:GLY:O	38:BQ:4:LEU:HD13	2.13	0.47
25:BB:116:G:H5'	39:BR:53:SER:CB	2.44	0.47
39:BR:58:LEU:HD23	39:BR:62:LYS:HG3	1.95	0.47
40:BS:30:VAL:HG11	40:BS:52:ILE:HD11	1.97	0.47
40:BS:85:LYS:HZ2	40:BS:85:LYS:H	1.61	0.47
41:BT:110:VAL:O	41:BT:113:ALA:N	2.47	0.47
41:BT:34:LYS:O	41:BT:38:THR:OG1	2.32	0.47
41:BT:54:LYS:CA	41:BT:54:LYS:CE	2.92	0.47
42:BU:10:LYS:C	42:BU:12:TYR:H	2.18	0.47
42:BU:78:LYS:HB2	42:BU:83:ARG:O	2.14	0.47
42:BU:64:HIS:CG	42:BU:96:ILE:HG22	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:13:SER:N	43:BV:101:SER:OG	2.47	0.47
43:BV:42:ARG:CG	43:BV:43:GLY:H	2.26	0.47
44:BW:35:THR:O	44:BW:38:GLU:CB	2.62	0.47
45:BX:72:VAL:HG11	45:BX:96:ILE:CG2	2.42	0.47
46:BY:48:PHE:CA	46:BY:54:HIS:CE1	2.98	0.47
24:BA:2115:G:H1	24:BA:2118:U:H5''	1.77	0.47
26:BC:68:LEU:HD23	26:BC:69:GLY:CA	2.44	0.47
26:BC:68:LEU:HG	26:BC:69:GLY:H	1.79	0.47
14:AO:126:LYS:HD2	14:AO:126:LYS:O	2.14	0.47
24:BA:1507:A:C2'	24:BA:1507:A:N3	2.62	0.47
1:AA:1165:C:C4	1:AA:1166:G:C8	3.03	0.47
2:A1:47:U:H5''	2:A1:48:U:OP1	2.14	0.47
1:AA:1342:C:C5'	11:AL:125:TYR:HB2	2.44	0.47
1:AA:134:A:P	1:AA:134:A:H8	2.36	0.47
1:AA:290:C:C6	1:AA:290:C:H3'	2.49	0.47
1:AA:321:A:H5''	1:AA:1436:U:O4'	2.13	0.47
1:AA:372:C:N4	1:AA:389:A:N6	2.61	0.47
1:AA:379:C:C2'	1:AA:380:G:H5'	2.42	0.47
1:AA:432:A:C8	1:AA:433:C:C5	3.02	0.47
1:AA:44:G:C5	1:AA:45:U:C6	3.02	0.47
1:AA:502:G:O2'	1:AA:503:C:H5'	2.13	0.47
1:AA:559:A:C3'	1:AA:560:U:H5'	2.43	0.47
1:AA:706:A:C4'	13:AN:29:ILE:HD13	2.44	0.47
1:AA:709:G:C4	1:AA:710:G:C8	3.03	0.47
1:AA:715:A:H2'	1:AA:716:A:O4'	2.14	0.47
1:AA:721:G:H1'	1:AA:722:A:N1	2.30	0.47
1:AA:742:G:C2	1:AA:743:U:H1'	2.49	0.47
1:AA:761:G:H1'	19:AT:103:GLY:O	2.13	0.47
1:AA:862:C:C2	1:AA:863:U:C5	3.02	0.47
3:AB:26:A:N6	3:AB:44:G:C6	2.78	0.47
3:AC:54:U:C5	3:AC:55:U:C4	3.02	0.47
3:AC:4:C:C2'	3:AC:5:G:O5'	2.62	0.47
4:AE:104:ASN:O	4:AE:104:ASN:OD1	2.31	0.47
5:AF:71:ALA:CA	5:AF:105:GLU:HG3	2.42	0.47
5:AF:179:ARG:HG2	5:AF:206:GLU:OE1	2.13	0.47
6:AG:121:VAL:HA	6:AG:126:ILE:CD1	2.36	0.47
6:AG:14:ARG:HD3	6:AG:15:GLU:OE1	2.14	0.47
6:AG:27:TYR:CD2	6:AG:27:TYR:O	2.68	0.47
6:AG:32:ALA:O	6:AG:37:PRO:HA	2.14	0.47
7:AH:103:GLY:O	7:AH:104:ALA:C	2.52	0.47
7:AH:109:ILE:HG12	7:AH:139:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:109:ILE:CG2	7:AH:110:LEU:N	2.75	0.47
7:AH:94:ALA:HB3	7:AH:117:ASP:O	2.15	0.47
7:AH:144:THR:HG22	7:AH:146:ALA:CB	2.44	0.47
8:AI:16:GLN:CG	8:AI:17:SER:H	2.25	0.47
8:AI:25:ILE:O	8:AI:26:ILE:C	2.52	0.47
9:AJ:123:GLU:OE1	9:AJ:134:ALA:CB	2.62	0.47
9:AJ:155:ARG:O	9:AJ:156:TRP:HE3	1.97	0.47
9:AJ:15:ASP:OD1	9:AJ:18:TYR:N	2.47	0.47
9:AJ:50:ILE:HD13	9:AJ:58:PRO:CA	2.45	0.47
10:AK:9:MET:HE3	10:AK:13:ILE:HD11	1.96	0.47
4:AE:181:PHE:CE1	10:AK:70:GLN:NE2	2.82	0.47
10:AK:87:SER:HB2	10:AK:91:ARG:O	2.14	0.47
12:AM:33:GLN:C	12:AM:34:VAL:HG23	2.35	0.47
13:AN:44:SER:N	13:AN:47:VAL:CG2	2.77	0.47
13:AN:85:ARG:HA	13:AN:85:ARG:HD3	1.56	0.47
14:AO:102:ARG:HG3	14:AO:120:TYR:HA	1.97	0.47
14:AO:24:VAL:HG13	14:AO:98:TYR:CZ	2.49	0.47
15:AP:37:THR:CG2	15:AP:56:LEU:HD22	2.45	0.47
16:AQ:16:PHE:C	16:AQ:18:VAL:N	2.67	0.47
18:AS:6:LEU:CG	18:AS:17:TYR:HD2	2.26	0.47
1:AA:136:C:C1'	18:AS:1:MET:HE1	2.44	0.47
19:AT:38:ARG:HE	19:AT:38:ARG:HA	1.80	0.47
20:AU:21:LYS:HE2	20:AU:23:LYS:HB3	1.97	0.47
1:AA:1314:C:OP2	21:AV:6:LYS:HA	2.14	0.47
22:AW:22:ARG:C	22:AW:26:ASN:OD1	2.52	0.47
22:AW:37:SER:OG	22:AW:38:LYS:N	2.47	0.47
22:AW:88:VAL:O	22:AW:92:LEU:HG	2.14	0.47
48:B1:30:LEU:O	48:B1:31:ARG:C	2.52	0.47
50:B3:28:LYS:CB	50:B3:29:PRO:CD	2.91	0.47
50:B3:48:ARG:H	50:B3:52:THR:CG2	2.27	0.47
52:B5:19:ARG:CG	52:B5:43:CYS:SG	3.02	0.47
54:B7:54:GLU:O	54:B7:57:ARG:N	2.48	0.47
55:B8:7:VAL:HG12	55:B8:7:VAL:O	2.13	0.47
24:BA:1005:C:C5	24:BA:1143:A:P	3.07	0.47
24:BA:1256:G:C2'	24:BA:1257:C:O5'	2.62	0.47
24:BA:1296:G:C2	24:BA:1297:C:C5	3.02	0.47
24:BA:1312:U:H2'	24:BA:1313:U:C4'	2.41	0.47
24:BA:1429:G:H2'	24:BA:1430:C:O4'	2.14	0.47
24:BA:1513:C:H2'	24:BA:1514:U:H5	1.79	0.47
24:BA:1567:A:N1	27:BD:85:ASP:HA	2.30	0.47
24:BA:1645:G:OP2	24:BA:1645:G:H8	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1664:A:C2'	24:BA:1665:A:C8	2.92	0.47
24:BA:1684:C:H2'	24:BA:1685:C:H6	1.76	0.47
24:BA:1689:A:H2'	24:BA:1690:A:C8	2.49	0.47
24:BA:1757:U:H2'	24:BA:1758:G:OP1	2.15	0.47
24:BA:1769:G:H2'	24:BA:1770:G:H8	1.79	0.47
24:BA:1802:A:H5'	24:BA:1803:A:P	2.54	0.47
24:BA:1857:G:H2'	24:BA:1858:G:C8	2.49	0.47
24:BA:1990:C:C4	24:BA:1991:U:C4	3.03	0.47
24:BA:2247:A:O5'	24:BA:2247:A:H8	1.97	0.47
24:BA:2310:A:H2	30:BG:83:ARG:NH2	2.10	0.47
24:BA:2324:C:O2'	24:BA:2325:G:P	2.72	0.47
24:BA:2371:G:H2'	24:BA:2372:G:C8	2.49	0.47
24:BA:2402:C:C5'	24:BA:2403:C:OP1	2.57	0.47
24:BA:2435:A:C2	24:BA:2436:G:N9	2.82	0.47
24:BA:2435:A:H2'	24:BA:2436:G:O5'	2.14	0.47
24:BA:2549:G:C2'	24:BA:2550:G:H5'	2.44	0.47
24:BA:2682:U:C4	28:BE:21:VAL:HG11	2.49	0.47
24:BA:2696:U:H2'	24:BA:2697:G:H8	1.79	0.47
24:BA:2795:G:C2'	24:BA:2795:G:N3	2.72	0.47
24:BA:2822:G:C8	38:BQ:4:LEU:HD21	2.49	0.47
24:BA:2877:G:N2	24:BA:2878:U:C2	2.82	0.47
24:BA:401:A:C4	24:BA:402:A:H8	2.32	0.47
24:BA:419:C:H2'	24:BA:420:C:C6	2.50	0.47
24:BA:462:C:C6	24:BA:468:G:N2	2.82	0.47
24:BA:543:C:H2'	24:BA:544:C:C6	2.49	0.47
24:BA:60:G:N7	24:BA:63:U:C4	2.82	0.47
24:BA:643:A:O2'	24:BA:644:A:P	2.73	0.47
24:BA:653:A:H62	24:BA:655:A:C1'	2.13	0.47
24:BA:656:G:C8	24:BA:656:G:OP2	2.67	0.47
24:BA:705:A:N6	24:BA:727:A:C8	2.83	0.47
24:BA:72:U:H1'	48:B1:53:ALA:HA	1.95	0.47
24:BA:783:A:H2	24:BA:1779:U:C4'	2.27	0.47
24:BA:801:G:O2'	24:BA:802:A:P	2.73	0.47
24:BA:860:U:H3'	24:BA:860:U:O2	2.15	0.47
24:BA:954:G:C6	24:BA:955:C:C2	3.02	0.47
25:BB:12:C:O5'	47:BZ:74:ARG:NE	2.46	0.47
25:BB:37:C:N3	25:BB:48:A:O2'	2.47	0.47
25:BB:8:U:C2	25:BB:9:G:H8	2.30	0.47
27:BD:118:VAL:O	27:BD:129:ASN:CB	2.63	0.47
27:BD:143:HIS:CA	27:BD:145:VAL:HG23	2.44	0.47
27:BD:147:LEU:HD23	27:BD:147:LEU:N	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:18:VAL:O	27:BD:18:VAL:HG12	2.15	0.47
27:BD:246:PRO:CG	27:BD:252:TRP:HA	2.44	0.47
27:BD:46:GLN:O	27:BD:47:GLY:C	2.50	0.47
27:BD:65:ILE:HG23	27:BD:104:TYR:O	2.14	0.47
27:BD:85:ASP:OD2	27:BD:88:ARG:NE	2.37	0.47
27:BD:90:ALA:C	27:BD:91:ARG:HH11	2.17	0.47
28:BE:53:PRO:HD2	28:BE:74:PRO:HA	1.97	0.47
28:BE:8:LYS:HB3	28:BE:24:THR:CG2	2.43	0.47
29:BF:106:ARG:CB	29:BF:106:ARG:HH21	2.27	0.47
29:BF:12:LEU:O	29:BF:14:PRO:N	2.48	0.47
30:BG:14:GLU:O	30:BG:17:PRO:HG2	2.15	0.47
24:BA:2306:C:N4	30:BG:45:GLU:HG2	2.30	0.47
31:BH:43:VAL:CG1	31:BH:44:VAL:H	2.25	0.47
24:BA:2751:G:O4'	31:BH:6:ARG:NH2	2.47	0.47
31:BH:98:LEU:HD22	31:BH:100:GLY:H	1.79	0.47
31:BH:9:ILE:HD13	31:BH:73:ALA:HB1	1.95	0.47
32:BK:7:GLU:O	32:BK:12:LEU:HA	2.13	0.47
33:BL:19:PRO:HG2	33:BL:22:PRO:HG2	1.96	0.47
33:BL:42:ASN:O	33:BL:46:ALA:CB	2.61	0.47
34:BM:104:LYS:O	34:BM:106:MET:N	2.47	0.47
34:BM:15:LEU:HD11	34:BM:137:LYS:O	2.14	0.47
34:BM:47:ALA:O	34:BM:48:MET:O	2.33	0.47
35:BN:48:PRO:O	35:BN:49:ARG:C	2.52	0.47
36:BO:126:VAL:HB	36:BO:146:VAL:CB	2.43	0.47
38:BQ:51:LEU:O	38:BQ:52:ILE:C	2.50	0.47
38:BQ:90:ARG:HB2	38:BQ:94:TYR:CE2	2.49	0.47
41:BT:37:GLU:O	41:BT:39:LEU:N	2.47	0.47
41:BT:50:ARG:NH1	41:BT:50:ARG:CB	2.57	0.47
24:BA:1152:C:OP1	41:BT:81:HIS:ND1	2.47	0.47
44:BW:90:GLU:O	44:BW:93:GLU:HG2	2.14	0.47
45:BX:10:GLY:N	45:BX:110:GLU:OE2	2.48	0.47
45:BX:15:VAL:HG12	45:BX:16:ALA:N	2.30	0.47
46:BY:102:LEU:HB2	46:BY:124:ILE:CA	2.41	0.47
46:BY:95:PRO:HG2	46:BY:131:ARG:CD	2.44	0.47
46:BY:153:SER:O	46:BY:154:ASP:C	2.52	0.47
3:AD:14:A:C2	3:AD:15:G:N7	2.82	0.47
24:BA:2127:G:C5	24:BA:2162:G:N1	2.82	0.47
26:BC:8:ARG:NH1	26:BC:11:LEU:CD2	2.78	0.47
24:BA:2176:A:O2'	26:BC:215:THR:HG21	2.14	0.47
1:AA:1027:C:OP2	1:AA:1028:C:OP2	2.32	0.47
1:AA:1134:G:C6	1:AA:1141:C:N4	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1214:C:H4'	1:AA:1215:G:OP2	2.12	0.47
1:AA:122:G:O5'	1:AA:122:G:H8	1.97	0.47
1:AA:1284:C:N1	1:AA:1285:A:N7	2.61	0.47
1:AA:1351:U:C2	1:AA:1352:C:C5	3.03	0.47
1:AA:1497:G:H2'	1:AA:1498:U:C6	2.49	0.47
1:AA:1506:U:H3'	1:AA:1507:A:C5'	2.45	0.47
1:AA:265:G:N9	1:AA:267:C:C5	2.83	0.47
1:AA:276:G:O2'	1:AA:277:C:H5'	2.14	0.47
1:AA:303:A:O2'	1:AA:304:U:H5'	2.15	0.47
1:AA:109:A:N6	1:AA:326:G:N1	2.62	0.47
1:AA:393:A:N6	1:AA:394:G:O6	2.47	0.47
1:AA:587:G:N2	1:AA:754:C:OP2	2.47	0.47
1:AA:706:A:H4'	13:AN:22:HIS:ND1	2.30	0.47
1:AA:657:G:N2	1:AA:750:G:C8	2.83	0.47
1:AA:790:A:OP1	3:AC:38:A:O2'	2.25	0.47
1:AA:889:A:H4'	1:AA:890:G:C5'	2.44	0.47
1:AA:900:A:H62	1:AA:901:A:N6	2.13	0.47
1:AA:813:U:OP1	1:AA:904:C:H5'	2.14	0.47
1:AA:933:G:O5'	1:AA:933:G:H8	1.98	0.47
1:AA:952:U:O2'	15:AP:126:LYS:OXT	2.32	0.47
1:AA:991:U:O2'	1:AA:993:G:H8	1.92	0.47
3:AC:75:C:OP2	24:BA:2602:A:H8	1.98	0.47
4:AE:168:THR:O	4:AE:169:LYS:HB2	2.15	0.47
4:AE:218:ALA:O	4:AE:219:VAL:C	2.52	0.47
4:AE:80:ILE:CG2	4:AE:81:VAL:N	2.78	0.47
5:AF:84:ILE:CG1	5:AF:101:LEU:HD13	2.43	0.47
5:AF:33:LEU:CD2	5:AF:36:ASP:OD1	2.63	0.47
5:AF:63:ASN:O	5:AF:64:VAL:HB	2.15	0.47
5:AF:6:HIS:CB	16:AQ:49:HIS:ND1	2.77	0.47
6:AG:3:ARG:HG3	6:AG:118:ARG:NE	2.30	0.47
6:AG:83:SER:N	6:AG:89:THR:HG23	2.29	0.47
7:AH:17:ALA:CA	7:AH:26:PHE:HD2	2.27	0.47
7:AH:37:ARG:HG2	7:AH:111:GLU:O	2.14	0.47
7:AH:59:GLY:CA	7:AH:63:ARG:HH21	2.27	0.47
7:AH:65:ASN:O	7:AH:65:ASN:CG	2.53	0.47
8:AI:3:ARG:CA	8:AI:67:MET:CE	2.84	0.47
8:AI:4:TYR:N	8:AI:67:MET:HE2	2.29	0.47
8:AI:76:ALA:CB	8:AI:80:ARG:CZ	2.92	0.47
9:AJ:15:ASP:HB3	9:AJ:19:GLY:N	2.30	0.47
9:AJ:47:CYS:HA	9:AJ:50:ILE:CG1	2.43	0.47
10:AK:6:ILE:HD12	10:AK:85:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:6:ILE:HG23	10:AK:85:ARG:NH1	2.30	0.47
12:AM:49:VAL:O	12:AM:60:ARG:CB	2.62	0.47
13:AN:106:LYS:CG	13:AN:107:SER:N	2.77	0.47
1:AA:551:U:C5'	14:AO:119:LYS:NZ	2.61	0.47
14:AO:119:LYS:O	14:AO:120:TYR:HB2	2.15	0.47
15:AP:2:ALA:HB3	15:AP:4:ILE:CD1	2.41	0.47
15:AP:66:LEU:CA	15:AP:70:LEU:HB2	2.45	0.47
12:AM:47:PHE:CE2	16:AQ:37:PHE:CZ	3.02	0.47
17:AR:34:LEU:HD12	17:AR:38:ARG:NE	2.29	0.47
1:AA:721:G:OP2	20:AU:63:GLN:HG2	2.15	0.47
20:AU:70:ILE:O	20:AU:74:ARG:CD	2.59	0.47
20:AU:74:ARG:H	20:AU:74:ARG:CD	2.28	0.47
20:AU:74:ARG:NH1	20:AU:81:PHE:CB	2.78	0.47
22:AW:98:PRO:O	22:AW:99:LEU:O	2.32	0.47
49:B2:26:LEU:HG	49:B2:35:ARG:HH12	1.73	0.47
50:B3:7:PRO:HG2	50:B3:60:GLN:CG	2.44	0.47
51:B4:56:LYS:CG	51:B4:57:VAL:HG13	2.44	0.47
54:B7:51:ALA:C	54:B7:53:PRO:HD2	2.35	0.47
54:B7:5:LYS:HE3	54:B7:10:ALA:HB3	1.96	0.47
54:B7:8:LYS:O	54:B7:9:GLY:C	2.53	0.47
24:BA:1044:G:H21	24:BA:1111:A:C4'	2.26	0.47
24:BA:116:C:C2'	24:BA:117:G:O5'	2.62	0.47
24:BA:1186:G:H2'	24:BA:1187:G:O4'	2.14	0.47
24:BA:1259:G:C4	24:BA:1260:G:C8	3.03	0.47
24:BA:1294:U:H2'	24:BA:1295:C:H5'	1.96	0.47
24:BA:1439:A:C8	24:BA:1440:G:C8	3.03	0.47
24:BA:1517:G:H2'	24:BA:1518:C:O4'	2.14	0.47
24:BA:1475:G:C8	24:BA:1517:G:N2	2.83	0.47
24:BA:1635:G:C8	24:BA:1635:G:O5'	2.67	0.47
24:BA:1637:A:C6	24:BA:1638:C:C4	3.03	0.47
24:BA:1706:U:N3	24:BA:1757:U:H5''	2.21	0.47
24:BA:1774:C:H5	24:BA:1775:U:C5	2.26	0.47
24:BA:1809:A:H2'	24:BA:1810:A:C5'	2.35	0.47
24:BA:1915:U:OP2	24:BA:1915:U:C3'	2.62	0.47
24:BA:1935:G:C2	24:BA:1962:C:C2	3.02	0.47
24:BA:1949:G:C8	24:BA:1950:G:C8	3.03	0.47
24:BA:2048:G:N2	24:BA:2049:G:C4	2.82	0.47
24:BA:2063:C:C3'	24:BA:2064:C:C5'	2.87	0.47
24:BA:2088:G:N1	24:BA:2089:U:C2	2.83	0.47
24:BA:2095:C:C2'	24:BA:2096:U:H5'	2.45	0.47
24:BA:215:G:C4'	24:BA:216:A:H4'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2226:C:C2'	24:BA:2227:A:H5'	2.44	0.47
24:BA:2246:G:H2'	24:BA:2247:A:N7	2.29	0.47
24:BA:2246:G:N2	24:BA:2247:A:C2	2.83	0.47
24:BA:2278:A:C2	24:BA:2279:G:C4	3.03	0.47
24:BA:2285:C:H1'	24:BA:2288:A:C5	2.49	0.47
24:BA:2288:A:H5'	24:BA:2289:G:OP2	2.15	0.47
24:BA:2367:G:O6	24:BA:2382:G:O6	2.33	0.47
24:BA:2422:A:HO2'	24:BA:2424:C:H5	1.58	0.47
24:BA:2251:G:C2	24:BA:2450:A:H1'	2.49	0.47
24:BA:245:G:C6	24:BA:246:C:C5	3.03	0.47
24:BA:2482:G:H2'	24:BA:2483:C:O4'	2.14	0.47
24:BA:2505:G:O2'	24:BA:2506:U:H5''	2.14	0.47
24:BA:2539:C:HO2'	24:BA:2540:C:H5'	1.77	0.47
24:BA:2601:C:C2	24:BA:2603:G:N7	2.82	0.47
24:BA:2619:C:C5'	28:BE:152:LYS:CA	2.90	0.47
24:BA:2824:C:C4	24:BA:2825:C:C2	3.03	0.47
24:BA:2839:G:C5	24:BA:2840:C:C4	3.03	0.47
24:BA:295:G:N2	24:BA:344:G:C1'	2.78	0.47
24:BA:301:G:C8	24:BA:317:G:N2	2.83	0.47
24:BA:364:C:H2'	24:BA:365:C:H6	1.62	0.47
24:BA:500:G:H2'	24:BA:501:A:C3'	2.43	0.47
24:BA:629:G:OP1	24:BA:649:G:O2'	2.12	0.47
24:BA:7:G:H2'	24:BA:8:A:C8	2.47	0.47
24:BA:894:C:C2	24:BA:895:U:C5	3.02	0.47
24:BA:900:A:H8	24:BA:901:A:C8	2.26	0.47
24:BA:969:U:N3	24:BA:970:C:C6	2.82	0.47
24:BA:994:C:O2	24:BA:996:A:C8	2.68	0.47
25:BB:16:G:C5	25:BB:17:C:C5	3.02	0.47
27:BD:117:VAL:HG13	27:BD:129:ASN:CA	2.45	0.47
27:BD:136:ILE:HB	27:BD:168:ARG:CZ	2.42	0.47
27:BD:54:ARG:HB2	27:BD:218:ARG:HD2	1.96	0.47
27:BD:79:VAL:HG12	27:BD:81:ALA:N	2.28	0.47
28:BE:136:ARG:HD3	28:BE:136:ARG:C	2.34	0.47
28:BE:136:ARG:NH2	28:BE:137:HIS:HA	2.29	0.47
28:BE:113:PHE:C	28:BE:158:GLY:HA2	2.35	0.47
28:BE:102:VAL:CG2	28:BE:200:GLU:OE1	2.61	0.47
28:BE:59:VAL:O	28:BE:62:PRO:HD2	2.14	0.47
28:BE:8:LYS:HD2	28:BE:9:VAL:HG22	1.91	0.47
29:BF:35:GLU:CA	29:BF:38:ARG:HD2	2.44	0.47
15:AP:3:ARG:NE	30:BG:140:ILE:HB	2.30	0.47
30:BG:35:GLU:HG2	30:BG:36:LYS:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:105:LEU:CG	31:BH:113:VAL:HG11	2.44	0.47
31:BH:31:GLY:HA2	31:BH:136:ILE:HD11	1.96	0.47
33:BL:54:PRO:HG3	33:BL:72:PRO:HA	1.95	0.47
35:BN:1:MET:SD	35:BN:2:ILE:HG12	2.55	0.47
36:BO:73:GLY:C	36:BO:107:LYS:HE3	2.35	0.47
36:BO:114:ILE:HD11	36:BO:123:LEU:CG	2.44	0.47
36:BO:72:PRO:CB	36:BO:111:ARG:CB	2.74	0.47
37:BP:134:ARG:NE	37:BP:137:TYR:N	2.62	0.47
37:BP:79:LEU:O	37:BP:80:GLU:CB	2.63	0.47
24:BA:956:G:P	37:BP:87:LYS:HG3	2.54	0.47
38:BQ:102:GLU:HA	38:BQ:102:GLU:OE2	2.14	0.47
38:BQ:28:LEU:HD22	38:BQ:34:ILE:HG12	1.97	0.47
39:BR:39:ILE:HB	39:BR:48:LEU:HB2	1.97	0.47
40:BS:26:ASP:OD2	40:BS:100:TYR:CE2	2.68	0.47
42:BU:6:LYS:CE	42:BU:10:LYS:HB3	2.44	0.47
42:BU:22:VAL:O	42:BU:93:GLU:CB	2.62	0.47
43:BV:33:ARG:O	43:BV:34:ASN:C	2.51	0.47
45:BX:49:VAL:N	45:BX:56:PRO:HG3	2.29	0.47
46:BY:151:HIS:CD2	46:BY:170:THR:N	2.83	0.47
46:BY:151:HIS:HB3	46:BY:170:THR:CA	2.44	0.47
24:BA:857:C:O2'	47:BZ:23:VAL:CB	2.63	0.47
47:BZ:27:GLU:HA	47:BZ:67:VAL:HG11	1.96	0.47
47:BZ:83:PRO:O	47:BZ:84:LEU:C	2.53	0.47
32:BK:63:ALA:HB1	32:BK:67:ARG:HH21	1.78	0.47
24:BA:2113:U:H3	24:BA:2169:A:H61	1.58	0.47
24:BA:2168:G:N2	24:BA:2171:A:C8	2.82	0.47
26:BC:129:ARG:C	26:BC:130:ILE:HD12	2.35	0.47
1:AA:511:C:O2'	1:AA:512:U:C6	2.52	0.47
24:BA:487:C:H6	24:BA:487:C:H3'	1.80	0.47
2:A1:39:U:O3'	2:A1:40:U:C6	2.67	0.47
1:AA:1005:A:C5	1:AA:1026:G:N2	2.82	0.47
1:AA:993:G:N1	1:AA:1046:A:C6	2.83	0.47
1:AA:1150:U:H5'	1:AA:1280:A:H2	1.76	0.47
1:AA:115:G:O2'	1:AA:116:A:P	2.72	0.47
1:AA:1161:C:O2	1:AA:1162:C:C5	2.67	0.47
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.14	0.47
1:AA:1301:U:O4	1:AA:1303:C:C2	2.68	0.47
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.49	0.47
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.15	0.47
1:AA:1390:U:C2	1:AA:1391:U:C5	3.03	0.47
1:AA:1443:G:O2'	1:AA:1447:G:OP1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:237:C:OP1	19:AT:40:LYS:CE	2.62	0.47
1:AA:261:U:O4	22:AW:79:ARG:NH2	2.46	0.47
1:AA:266:G:O2'	1:AA:268:C:OP2	2.30	0.47
1:AA:50:A:C2	1:AA:360:A:O2'	2.64	0.47
1:AA:524:G:H2'	1:AA:525:C:O4'	2.15	0.47
1:AA:60:A:HO2'	1:AA:61:G:P	2.37	0.47
1:AA:622:A:N3	1:AA:623:C:O4'	2.48	0.47
1:AA:627:G:H2'	1:AA:628:G:C8	2.47	0.47
1:AA:767:A:N6	1:AA:813:U:C2	2.83	0.47
1:AA:575:G:C6	1:AA:821:G:N7	2.83	0.47
1:AA:877:C:H2'	1:AA:878:G:C8	2.50	0.47
1:AA:997:U:C4	1:AA:998:G:N7	2.83	0.47
3:AD:32:U:HO2'	9:AJ:77:SER:CB	2.28	0.47
4:AE:15:VAL:O	4:AE:16:HIS:CB	2.61	0.47
5:AF:180:ALA:HB1	5:AF:203:PHE:HE1	1.80	0.47
6:AG:133:VAL:HG21	6:AG:138:TYR:CE1	2.50	0.47
9:AJ:121:ALA:O	9:AJ:122:HIS:C	2.52	0.47
9:AJ:44:TYR:O	9:AJ:45:ASP:C	2.52	0.47
9:AJ:95:ARG:O	9:AJ:97:GLN:N	2.47	0.47
10:AK:123:GLU:O	10:AK:124:ALA:C	2.51	0.47
10:AK:14:ARG:HB3	10:AK:14:ARG:CZ	2.42	0.47
10:AK:5:PRO:HA	10:AK:8:ASP:CB	2.42	0.47
10:AK:92:ARG:CD	10:AK:92:ARG:N	2.75	0.47
12:AM:46:ARG:NH1	16:AQ:59:ALA:CB	2.77	0.47
12:AM:78:ASN:O	12:AM:79:ARG:C	2.51	0.47
12:AM:80:LYS:O	12:AM:80:LYS:HD3	2.15	0.47
14:AO:86:ARG:HD3	14:AO:101:VAL:HG11	1.96	0.47
14:AO:117:ARG:NH1	14:AO:117:ARG:CG	2.74	0.47
15:AP:15:VAL:HG11	15:AP:34:LEU:HD21	1.96	0.47
16:AQ:13:THR:C	16:AQ:15:LYS:N	2.66	0.47
17:AR:33:THR:O	17:AR:37:ASN:ND2	2.46	0.47
1:AA:667:G:H4'	17:AR:51:HIS:CG	2.49	0.47
1:AA:230:G:H5'	18:AS:23:ASP:OD2	2.14	0.47
19:AT:40:LYS:NZ	19:AT:42:TYR:HE1	2.12	0.47
1:AA:279:A:C2	19:AT:98:LEU:HG	2.47	0.47
21:AV:80:TYR:CE1	21:AV:81:ARG:HG3	2.49	0.47
22:AW:67:ALA:O	22:AW:68:LYS:C	2.52	0.47
23:AX:14:TRP:O	23:AX:15:ARG:C	2.52	0.47
48:B1:27:LEU:CG	48:B1:48:LEU:HD23	2.44	0.47
49:B2:23:LEU:HD12	49:B2:50:VAL:CG2	2.45	0.47
49:B2:28:LEU:CD2	49:B2:28:LEU:N	2.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2286:A:N7	52:B5:31:PRO:CD	2.77	0.47
24:BA:1084:A:C3'	24:BA:1085:A:H5'	2.45	0.47
24:BA:1097:U:H2'	24:BA:1098:A:O4'	2.14	0.47
24:BA:1228:G:C6	24:BA:1229:G:C5	3.03	0.47
24:BA:1326:U:O4	24:BA:1648:C:O2'	2.31	0.47
24:BA:1444(A):A:N6	24:BA:1461:G:H5''	2.29	0.47
24:BA:1540:G:OP1	24:BA:1540:G:C4'	2.62	0.47
24:BA:1613:G:H2'	24:BA:1617:C:N4	2.29	0.47
24:BA:1637:A:H2'	24:BA:1638:C:H6	1.78	0.47
24:BA:1727:U:C4	24:BA:1730:U:C4	3.03	0.47
24:BA:1731:G:N3	24:BA:1731:G:H2'	2.29	0.47
24:BA:1799:G:C6	24:BA:1819:A:C8	3.03	0.47
24:BA:1826:G:OP1	27:BD:233:HIS:CD2	2.68	0.47
24:BA:1924:C:C2	24:BA:1925:C:C6	3.01	0.47
24:BA:1926:U:H2'	24:BA:1928:A:OP2	2.15	0.47
24:BA:1936:A:N3	24:BA:1940:U:C2	2.82	0.47
24:BA:1952:A:C8	24:BA:1953:A:C4	3.03	0.47
24:BA:195:A:H8	24:BA:195:A:O5'	1.97	0.47
24:BA:1968:G:O2'	24:BA:1969:A:O5'	2.28	0.47
24:BA:1655:A:N6	24:BA:2005:A:C2'	2.78	0.47
24:BA:204:A:C4	24:BA:206:U:N3	2.83	0.47
24:BA:2070:G:O2'	24:BA:2071:A:H5'	2.14	0.47
24:BA:2195:C:O2	24:BA:2196:C:H1'	2.15	0.47
24:BA:226:G:H21	24:BA:228:A:N6	2.11	0.47
24:BA:245:G:C5	24:BA:246:C:C5	2.96	0.47
24:BA:2487:G:H2'	24:BA:2488:A:O5'	2.15	0.47
24:BA:2528:U:O2	24:BA:2536:G:N2	2.47	0.47
24:BA:2582:G:H21	24:BA:2583:G:H1'	1.68	0.47
24:BA:2598:A:OP1	27:BD:234:GLY:CA	2.51	0.47
24:BA:2626:C:C2'	24:BA:2627:G:O4'	2.61	0.47
24:BA:262:A:H2'	24:BA:263:C:C6	2.50	0.47
24:BA:2640:G:H4'	34:BM:75:TYR:CZ	2.49	0.47
24:BA:265:A:H2	24:BA:281:G:O5'	1.97	0.47
24:BA:2674:G:C5	24:BA:2675:A:N7	2.83	0.47
24:BA:2701:C:C3'	24:BA:2702:U:C5'	2.80	0.47
24:BA:270(W):G:C4	24:BA:270(X):G:H8	2.32	0.47
24:BA:2723:C:OP2	28:BE:109:LYS:NZ	2.46	0.47
24:BA:2731:G:H22	24:BA:2732:G:N2	2.12	0.47
24:BA:2745:C:H2'	24:BA:2746:U:H6	1.80	0.47
24:BA:298:G:O6	24:BA:338:G:O4'	2.32	0.47
24:BA:389:G:OP2	50:B3:24:THR:CG2	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:514:A:C2	24:BA:515:A:C1'	2.94	0.47
24:BA:640:C:C2'	24:BA:641:C:H5'	2.37	0.47
24:BA:629:G:C5'	24:BA:649:G:N3	2.77	0.47
24:BA:653:A:H5'	24:BA:654:A:H4'	1.96	0.47
24:BA:669:G:C5	24:BA:801:G:C6	3.03	0.47
24:BA:679:C:O2	24:BA:680:G:C8	2.67	0.47
24:BA:783:A:H8	27:BD:227:ASN:ND2	2.13	0.47
24:BA:819:A:C2	24:BA:820:A:C5	3.02	0.47
24:BA:831:G:N3	24:BA:831:G:H2'	2.29	0.47
24:BA:882:G:C2	24:BA:895:U:C2	3.03	0.47
24:BA:949:C:N3	24:BA:950:G:N7	2.62	0.47
24:BA:951:C:HO2'	24:BA:952:G:H5'	1.78	0.47
25:BB:118:G:H2'	25:BB:119:A:H8	1.80	0.47
27:BD:105:ILE:O	27:BD:106:ILE:C	2.52	0.47
24:BA:1819:A:C5	27:BD:179:SER:HB3	2.49	0.47
27:BD:23:GLU:O	27:BD:204:ILE:HD11	2.15	0.47
27:BD:246:PRO:CG	27:BD:252:TRP:CE3	2.86	0.47
27:BD:9:TYR:CE1	27:BD:25:THR:HG21	2.48	0.47
27:BD:60:ARG:CA	27:BD:62:TYR:CZ	2.94	0.47
27:BD:90:ALA:HA	27:BD:91:ARG:HH11	1.74	0.47
28:BE:154:LYS:CD	28:BE:154:LYS:C	2.80	0.47
28:BE:171:GLU:H	28:BE:185:LYS:HZ3	1.61	0.47
28:BE:176:ILE:CD1	28:BE:179:GLU:N	2.78	0.47
28:BE:198:VAL:HG12	28:BE:199:ARG:N	2.28	0.47
28:BE:12:THR:HA	28:BE:21:VAL:HG23	1.96	0.47
28:BE:61:ARG:CB	28:BE:62:PRO:HD3	2.44	0.47
28:BE:47:VAL:HG13	28:BE:78:LEU:C	2.34	0.47
28:BE:2:LYS:CE	28:BE:83:ASP:HB2	2.45	0.47
29:BF:137:LYS:HZ3	29:BF:137:LYS:HA	1.79	0.47
29:BF:157:VAL:CG2	29:BF:157:VAL:O	2.62	0.47
29:BF:39:TRP:HB2	29:BF:101:LEU:HG	1.95	0.47
30:BG:115:ARG:HG3	30:BG:115:ARG:HH21	1.80	0.47
30:BG:80:PHE:CD1	30:BG:81:LYS:N	2.68	0.47
31:BH:155:SER:O	31:BH:158:HIS:O	2.32	0.47
31:BH:26:VAL:HG21	31:BH:35:VAL:HG21	1.97	0.47
33:BL:35:MET:O	33:BL:35:MET:SD	2.73	0.47
33:BL:39:LYS:O	33:BL:42:ASN:HB2	2.15	0.47
35:BN:58:VAL:O	35:BN:86:ILE:HB	2.14	0.47
35:BN:64:ARG:NH2	35:BN:65:THR:H	2.12	0.47
35:BN:80:ASP:CG	35:BN:82:ASN:OD1	2.53	0.47
35:BN:98:VAL:O	35:BN:99:PHE:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:128:HIS:ND1	36:BO:128:HIS:N	2.63	0.47
36:BO:46:LYS:HZ1	36:BO:50:ARG:HH11	1.63	0.47
36:BO:7:ARG:N	36:BO:8:PRO:CD	2.77	0.47
37:BP:130:LYS:HE3	37:BP:131:ILE:O	2.15	0.47
37:BP:16:ARG:C	37:BP:17:LEU:HD12	2.35	0.47
37:BP:43:THR:OG1	37:BP:46:GLN:N	2.48	0.47
37:BP:44:ALA:O	37:BP:48:GLU:OE2	2.31	0.47
38:BQ:98:LEU:C	38:BQ:112:ALA:HB1	2.28	0.47
39:BR:31:SER:C	39:BR:97:ARG:NH2	2.68	0.47
40:BS:29:ARG:CA	40:BS:51:ARG:HA	2.40	0.47
41:BT:33:ARG:NH1	41:BT:33:ARG:HB2	2.28	0.47
41:BT:74:LEU:C	41:BT:78:THR:OG1	2.52	0.47
41:BT:89:GLU:CB	42:BU:51:VAL:HB	2.43	0.47
42:BU:40:LEU:HD11	42:BU:55:ALA:CA	2.41	0.47
42:BU:43:GLU:C	42:BU:44:LYS:CD	2.83	0.47
42:BU:61:VAL:O	42:BU:99:ILE:O	2.32	0.47
24:BA:993:G:C1'	42:BU:91:TYR:CE2	2.87	0.47
44:BW:57:LEU:HD23	44:BW:57:LEU:C	2.35	0.47
45:BX:9:LYS:HD2	45:BX:110:GLU:CD	2.35	0.47
45:BX:67:LEU:HD11	45:BX:71:LYS:HE2	1.95	0.47
46:BY:95:PRO:HD2	46:BY:130:PRO:CA	2.44	0.47
46:BY:171:ILE:C	46:BY:171:ILE:HD12	2.35	0.47
47:BZ:21:LEU:HD12	47:BZ:39:ARG:CB	2.39	0.47
47:BZ:56:ASP:CG	47:BZ:58:THR:HB	2.34	0.47
47:BZ:37:LEU:CD2	47:BZ:60:PHE:HA	2.43	0.47
32:BK:76:THR:CG2	32:BK:141:LYS:HE2	2.45	0.47
32:BK:60:GLU:O	32:BK:63:ALA:HB3	2.15	0.47
24:BA:2128:C:N4	24:BA:2129:C:C4	2.83	0.47
24:BA:2132:U:C5'	24:BA:2133:G:H5'	2.42	0.47
24:BA:2142:C:C2	24:BA:2143:C:C5	3.02	0.47
26:BC:77:ILE:HD12	26:BC:123:VAL:HG11	1.92	0.47
26:BC:7:TYR:HE1	26:BC:10:LEU:HG	1.80	0.47
24:BA:1488:G:H3'	24:BA:1489:U:H5'	1.94	0.47
24:BA:1582:C:N3	24:BA:1583:A:N7	2.62	0.47
33:BL:98:ARG:HH11	33:BL:139:VAL:HG11	1.80	0.47
2:A1:22:C:C2'	2:A1:23:A:C8	2.91	0.47
1:AA:443:C:C2	1:AA:492:G:C2	3.02	0.47
3:AD:66:U:H2'	3:AD:67:C:C6	2.49	0.47
24:BA:2182:G:H2'	24:BA:2183:C:H6	1.80	0.47
1:AA:1117:G:H5'	1:AA:1118:C:OP2	2.14	0.47
1:AA:113:G:H2'	1:AA:114:U:H6	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1181:G:H2'	1:AA:1182:G:C4'	2.44	0.47
1:AA:1202:G:C4	16:AQ:42:ILE:CD1	2.94	0.47
1:AA:1215:G:H2'	1:AA:1215:G:N3	2.28	0.47
1:AA:1302:U:C3'	1:AA:1303:C:H5'	2.45	0.47
1:AA:1335:C:H5''	1:AA:1336:C:H5'	1.95	0.47
1:AA:1361:G:O5'	1:AA:1361:G:C8	2.68	0.47
1:AA:1396:A:H4'	1:AA:1398:A:O4'	2.15	0.47
1:AA:193:C:O2'	1:AA:194:C:H5'	2.14	0.47
1:AA:67:C:OP1	1:AA:199:G:H5''	2.14	0.47
1:AA:290:C:C6	1:AA:290:C:C3'	2.98	0.47
1:AA:355:C:H2'	1:AA:356:A:C8	2.50	0.47
1:AA:408:A:N6	1:AA:409:G:O6	2.48	0.47
1:AA:409:G:C4	1:AA:410:G:C8	3.02	0.47
1:AA:414:A:H62	1:AA:430:A:N6	2.12	0.47
1:AA:450:G:H5'	18:AS:43:LYS:NZ	2.30	0.47
1:AA:528:C:O4'	1:AA:535:A:C6	2.68	0.47
1:AA:622:A:C2	1:AA:623:C:C1'	2.98	0.47
1:AA:640:A:C2'	1:AA:641:U:C5'	2.91	0.47
1:AA:68:G:O5'	1:AA:68:G:H8	1.98	0.47
1:AA:783:C:C2'	1:AA:784:C:H5'	2.42	0.47
1:AA:801:U:H2'	1:AA:802:A:C8	2.50	0.47
1:AA:832:C:N3	1:AA:855:G:C6	2.83	0.47
1:AA:873:A:O4'	1:AA:873:A:P	2.73	0.47
1:AA:874:G:H2'	1:AA:875:C:O5'	2.15	0.47
1:AA:22:G:C4'	1:AA:885:G:O4'	2.62	0.47
1:AA:891:U:C5	1:AA:906:G:N2	2.82	0.47
1:AA:901:A:N3	1:AA:902:G:O4'	2.48	0.47
1:AA:92:G:C2	1:AA:93:U:C2	3.03	0.47
3:AB:39:U:C6	3:AB:39:U:O5'	2.67	0.47
3:AD:36:A:H3'	3:AD:37:A:C8	2.49	0.47
4:AE:114:ARG:NH1	4:AE:141:GLU:HG3	2.29	0.47
4:AE:160:ASP:HB3	4:AE:182:ILE:CG2	2.35	0.47
4:AE:213:LEU:C	4:AE:213:LEU:CD2	2.82	0.47
4:AE:95:GLN:HG3	4:AE:148:TYR:HB2	1.91	0.47
5:AF:205:GLY:O	5:AF:206:GLU:CB	2.54	0.47
6:AG:54:TYR:C	6:AG:56:VAL:N	2.67	0.47
7:AH:19:MET:SD	7:AH:24:ARG:HG2	2.54	0.47
7:AH:48:ALA:HB1	7:AH:53:LEU:CD1	2.40	0.47
8:AI:30:LEU:C	8:AI:35:ALA:HB3	2.35	0.47
9:AJ:68:ASN:ND2	9:AJ:128:ALA:CA	2.78	0.47
10:AK:110:ALA:HA	10:AK:136:GLU:CB	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:119:LEU:CD2	10:AK:119:LEU:N	2.72	0.47
10:AK:75:ARG:CB	10:AK:75:ARG:CZ	2.79	0.47
13:AN:31:THR:OG1	13:AN:42:TRP:CB	2.63	0.47
15:AP:10:PRO:CG	15:AP:18:ALA:CA	2.91	0.47
15:AP:75:ALA:O	15:AP:79:LYS:HB2	2.15	0.47
1:AA:625:G:H4'	18:AS:16:HIS:CG	2.50	0.47
18:AS:21:VAL:CG2	18:AS:59:TRP:HE1	2.21	0.47
18:AS:60:LEU:O	18:AS:61:SER:C	2.53	0.47
20:AU:52:PRO:C	20:AU:54:ARG:N	2.67	0.47
20:AU:22:VAL:HG22	20:AU:55:ARG:HH12	1.80	0.47
21:AV:50:ALA:HA	21:AV:58:VAL:O	2.14	0.47
53:B6:2:LYS:C	53:B6:4:THR:N	2.66	0.47
24:BA:459:U:OP2	53:B6:40:TRP:N	2.48	0.47
53:B6:41:ARG:HD3	53:B6:42:LEU:H	1.79	0.47
54:B7:22:VAL:HB	54:B7:48:PHE:CZ	2.49	0.47
24:BA:1096:A:N6	33:BL:30:HIS:CB	2.78	0.47
24:BA:1174:A:C2	24:BA:1176:G:O5'	2.67	0.47
24:BA:1197:G:C4	24:BA:1198:U:C6	3.03	0.47
24:BA:443:A:O4'	24:BA:1201:C:H4'	2.15	0.47
24:BA:1345:C:C2'	24:BA:1346:G:H5'	2.44	0.47
24:BA:1372:U:C6	24:BA:1372:U:C3'	2.97	0.47
24:BA:1477:A:H2	24:BA:1516:U:O2	1.96	0.47
24:BA:1299:G:N3	24:BA:1640:C:H5	2.12	0.47
24:BA:1684:C:C2	24:BA:1685:C:C5	3.03	0.47
24:BA:180:G:OP1	53:B6:32:LYS:CD	2.62	0.47
24:BA:1853:A:H2	24:BA:2087:G:N3	2.12	0.47
24:BA:191:A:C2	24:BA:799:G:N2	2.83	0.47
24:BA:1949:G:O2'	24:BA:1950:G:C5'	2.59	0.47
24:BA:2040:C:N3	24:BA:2041:U:C4	2.83	0.47
24:BA:2081:C:C2'	24:BA:2082:A:H5'	2.44	0.47
24:BA:2085:C:O2'	24:BA:2086:U:H5'	2.13	0.47
24:BA:2213:U:H5'	24:BA:2215:G:C6	2.49	0.47
24:BA:2279:G:O2'	24:BA:2280:G:O5'	2.28	0.47
24:BA:2317:C:H2'	24:BA:2318:G:C8	2.50	0.47
24:BA:2371:G:O2'	24:BA:2372:G:H1'	2.14	0.47
24:BA:2371:G:O2'	24:BA:2372:G:O4'	2.31	0.47
24:BA:2404:C:N3	24:BA:2414:G:C2	2.83	0.47
24:BA:2437:U:H2'	24:BA:2438:U:C5	2.49	0.47
24:BA:2476:A:C2	24:BA:2481:G:N2	2.78	0.47
24:BA:2482:G:C5	24:BA:2483:C:C5	3.02	0.47
24:BA:2496:C:OP1	37:BP:82:ARG:CG	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:246:C:N4	24:BA:252:G:N1	2.63	0.47
24:BA:2572:A:H3'	28:BE:144:ARG:HH21	1.80	0.47
24:BA:2633:G:N1	24:BA:2634:G:C5	2.83	0.47
24:BA:270(N):G:C8	24:BA:270(O):U:C6	3.02	0.47
24:BA:2732:G:C8	24:BA:2732:G:OP2	2.68	0.47
24:BA:2805:G:H2'	24:BA:2807:G:C4'	2.44	0.47
24:BA:2823:A:O5'	24:BA:2824:C:OP2	2.32	0.47
24:BA:2826:A:H2'	24:BA:2827:C:O5'	2.15	0.47
24:BA:2817:G:N2	24:BA:2830:G:H1'	2.29	0.47
24:BA:37:C:HO2'	29:BF:50:SER:CB	2.26	0.47
24:BA:511:U:OP2	24:BA:512:G:C5	2.68	0.47
24:BA:577:G:H2'	24:BA:578:A:O4'	2.15	0.47
24:BA:636:G:H2'	36:BO:113:LYS:NZ	2.29	0.47
24:BA:638:G:H2'	24:BA:639:U:C4'	2.44	0.47
24:BA:65:C:C2	24:BA:66:C:H5	2.32	0.47
24:BA:774:A:C5	24:BA:775:G:C6	3.03	0.47
24:BA:94:G:O2'	48:B1:39:LEU:HD22	2.14	0.47
25:BB:103:U:H5''	25:BB:103:U:H6	1.79	0.47
25:BB:114:G:H1'	39:BR:38:GLN:HE21	1.72	0.47
25:BB:2:C:C2'	25:BB:3:C:O5'	2.63	0.47
25:BB:50:G:H5''	39:BR:61:ASN:HA	1.97	0.47
25:BB:58:A:O5'	25:BB:58:A:C8	2.60	0.47
25:BB:5:C:H2'	25:BB:6:C:C5	2.50	0.47
28:BE:120:TRP:CD1	28:BE:121:ASN:O	2.67	0.47
28:BE:49:LEU:CD1	28:BE:76:ARG:O	2.60	0.47
24:BA:2636:U:O2'	28:BE:79:ARG:NH2	2.48	0.47
28:BE:81:ILE:CG2	28:BE:82:ARG:H	2.25	0.47
29:BF:104:LYS:C	29:BF:108:LYS:NZ	2.68	0.47
31:BH:137:ASP:HB3	31:BH:140:LYS:CG	2.41	0.47
31:BH:85:LYS:HZ3	31:BH:142:GLY:CA	2.27	0.47
31:BH:73:ALA:O	31:BH:76:VAL:CG2	2.47	0.47
35:BN:1:MET:SD	35:BN:2:ILE:CG1	3.02	0.47
24:BA:1995:U:O2'	35:BN:31:LYS:HE2	2.15	0.47
35:BN:22:ILE:CD1	35:BN:40:VAL:HG21	2.45	0.47
35:BN:64:ARG:NH2	35:BN:78:ARG:HH11	2.12	0.47
36:BO:18:ARG:C	36:BO:20:GLY:H	2.17	0.47
36:BO:78:PRO:HD2	36:BO:115:LEU:O	2.14	0.47
36:BO:80:TYR:CE1	36:BO:85:LEU:HD13	2.49	0.47
37:BP:125:LEU:N	37:BP:125:LEU:HD23	2.28	0.47
38:BQ:103:ARG:HB2	38:BQ:108:GLY:O	2.14	0.47
24:BA:1275:A:N3	38:BQ:16:HIS:ND1	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:29:PHE:C	39:BR:30:ARG:HG2	2.34	0.47
39:BR:43:GLU:C	39:BR:45:GLY:N	2.67	0.47
40:BS:107:ASP:HB2	40:BS:108:ARG:HH11	1.79	0.47
24:BA:2876:G:H5'	40:BS:1:MET:N	2.29	0.47
40:BS:54:ARG:H	40:BS:64:ARG:CB	2.25	0.47
40:BS:56:GLY:C	40:BS:57:PHE:CD2	2.87	0.47
40:BS:64:ARG:CZ	40:BS:77:PRO:CA	2.92	0.47
40:BS:92:GLY:HA2	40:BS:93:ARG:NH2	2.29	0.47
24:BA:1755:A:N7	40:BS:98:LYS:NZ	2.63	0.47
24:BA:581:C:H5''	41:BT:32:PHE:CD2	2.50	0.47
41:BT:40:PHE:HB3	42:BU:78:LYS:CE	2.44	0.47
41:BT:46:ALA:O	41:BT:50:ARG:CD	2.53	0.47
41:BT:55:ARG:HA	41:BT:58:ARG:NE	2.30	0.47
41:BT:98:LEU:O	41:BT:99:ALA:C	2.52	0.47
42:BU:3:ALA:CA	42:BU:44:LYS:NZ	2.78	0.47
42:BU:69:LYS:CA	42:BU:92:THR:HB	2.44	0.47
42:BU:92:THR:OG1	42:BU:93:GLU:N	2.47	0.47
44:BW:36:LYS:HE3	44:BW:56:THR:OG1	2.14	0.47
44:BW:62:LYS:O	44:BW:63:LYS:CB	2.51	0.47
45:BX:32:PRO:CB	45:BX:34:LYS:HE3	2.44	0.47
45:BX:12:THR:CB	45:BX:71:LYS:HA	2.45	0.47
46:BY:128:VAL:O	46:BY:129:SER:HB2	2.14	0.47
2:A1:35:U:OP2	2:A1:35:U:C5	2.67	0.47
1:AA:1067:A:H4'	1:AA:1068:G:O5'	2.15	0.47
1:AA:1086:U:H2'	1:AA:1087:G:C8	2.49	0.47
1:AA:1138:G:C2	1:AA:1140:C:C5	3.02	0.47
1:AA:1184:G:N1	1:AA:1185:G:C6	2.82	0.47
1:AA:1185:G:H2'	1:AA:1186:G:C5'	2.45	0.47
1:AA:1200:C:C5'	1:AA:1202:G:OP1	2.62	0.47
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.97	0.47
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.29	0.47
1:AA:1492:A:H2'	1:AA:1493:A:C4	2.50	0.47
1:AA:14:U:O2	1:AA:17:U:H5	1.98	0.47
1:AA:258:G:C5	1:AA:259:G:N7	2.83	0.47
1:AA:45:U:O2	1:AA:398:C:N3	2.47	0.47
1:AA:475:G:HO2'	1:AA:476:G:H8	1.60	0.47
1:AA:557:G:O3'	1:AA:558:G:O4'	2.32	0.47
1:AA:22:G:P	1:AA:561:U:O2	2.72	0.47
1:AA:587:G:N2	1:AA:755:G:C4	2.82	0.47
1:AA:611:A:C5	1:AA:612:C:C5	3.03	0.47
1:AA:68:G:C2	1:AA:69:G:H1'	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:729:A:O2'	1:AA:730:G:H5'	2.15	0.47
1:AA:742:G:C2'	1:AA:743:U:H5'	2.45	0.47
1:AA:774:G:C4	1:AA:775:G:C8	3.02	0.47
1:AA:792:A:C2	1:AA:794:A:N1	2.83	0.47
1:AA:766:A:C8	1:AA:814:A:N6	2.82	0.47
1:AA:818:G:N2	1:AA:820:U:C5	2.81	0.47
1:AA:837:G:N1	1:AA:838:G:C5	2.83	0.47
1:AA:913:A:O2'	1:AA:914:A:O5'	2.32	0.47
1:AA:936:C:H2'	1:AA:937:A:H5'	1.94	0.47
1:AA:95:G:N2	1:AA:96:G:H1'	2.29	0.47
3:AC:74:C:H2'	3:AC:75:C:H4'	1.97	0.47
4:AE:102:LEU:CD2	4:AE:176:GLU:CB	2.82	0.47
4:AE:117:GLU:CD	4:AE:118:LEU:N	2.68	0.47
4:AE:184:VAL:HB	4:AE:198:ASP:CG	2.33	0.47
4:AE:44:LEU:H	4:AE:44:LEU:HD23	1.79	0.47
4:AE:61:LEU:O	4:AE:64:ARG:HD2	2.15	0.47
4:AE:97:TRP:HE3	4:AE:172:ILE:HB	1.80	0.47
5:AF:150:LYS:NZ	5:AF:152:ILE:HG21	2.29	0.47
1:AA:1057:G:H5'	5:AF:196:LEU:HA	1.97	0.47
5:AF:29:TYR:CG	16:AQ:36:PHE:HE1	2.32	0.47
5:AF:59:ARG:CZ	5:AF:64:VAL:HA	2.42	0.47
6:AG:35:ARG:O	6:AG:36:ARG:C	2.53	0.47
6:AG:4:TYR:HE2	6:AG:8:VAL:HG22	1.80	0.47
6:AG:78:LEU:HB3	6:AG:93:PHE:CE2	2.50	0.47
9:AJ:15:ASP:HB2	9:AJ:23:VAL:CB	2.45	0.47
10:AK:114:THR:HB	10:AK:129:VAL:HG13	1.96	0.47
10:AK:10:LEU:C	10:AK:13:ILE:HB	2.29	0.47
10:AK:40:ALA:HB2	10:AK:45:ILE:HD13	1.97	0.47
10:AK:78:GLN:O	10:AK:79:VAL:C	2.52	0.47
11:AL:108:VAL:O	11:AL:108:VAL:HG23	2.15	0.47
11:AL:41:VAL:O	11:AL:44:VAL:HG22	2.13	0.47
12:AM:24:VAL:HG13	12:AM:34:VAL:CG1	2.44	0.47
1:AA:1254:C:OP1	12:AM:45:ARG:HD2	2.15	0.47
13:AN:44:SER:H	13:AN:47:VAL:CB	2.25	0.47
15:AP:36:LYS:HB3	15:AP:59:TYR:OH	2.14	0.47
17:AR:63:ARG:NH2	17:AR:87:ILE:HD13	2.26	0.47
18:AS:19:ILE:HB	18:AS:36:ILE:O	2.15	0.47
18:AS:53:VAL:HA	18:AS:79:VAL:HG22	1.95	0.47
19:AT:29:HIS:ND1	19:AT:30:PRO:N	2.62	0.47
19:AT:60:ILE:HD13	19:AT:62:SER:CB	2.45	0.47
19:AT:5:VAL:O	19:AT:6:LEU:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:6:LEU:HD12	19:AT:6:LEU:O	2.15	0.47
20:AU:18:ARG:HH22	20:AU:21:LYS:HD3	1.79	0.47
8:AI:89:MET:CB	20:AU:76:LEU:HD11	2.40	0.47
21:AV:35:SER:C	21:AV:37:ARG:H	2.18	0.47
21:AV:30:LEU:N	21:AV:48:THR:O	2.48	0.47
22:AW:62:LEU:O	22:AW:63:ILE:C	2.53	0.47
51:B4:23:HIS:O	51:B4:24:ALA:HB3	2.14	0.47
38:BQ:99:LYS:HD3	51:B4:43:HIS:CG	2.50	0.47
24:BA:2612:C:HO2'	51:B4:4:HIS:HB3	1.79	0.47
53:B6:25:PRO:CA	53:B6:28:ARG:NE	2.76	0.47
24:BA:1140:C:H2'	24:BA:1141:U:OP2	2.15	0.47
24:BA:1212:G:C8	24:BA:1235:G:N1	2.83	0.47
24:BA:122:G:C2	24:BA:130:C:C2	3.03	0.47
24:BA:1265:A:H1'	24:BA:1267:U:N3	2.28	0.47
24:BA:1289:C:N3	24:BA:1290:C:C5	2.83	0.47
24:BA:128:C:N4	24:BA:129:C:H41	2.12	0.47
24:BA:1433:U:C6	24:BA:1433:U:H3'	2.49	0.47
24:BA:1593:G:C4	24:BA:1594:G:C8	3.02	0.47
24:BA:1626:G:H5'	24:BA:1627:G:OP1	2.15	0.47
24:BA:1649:G:N2	38:BQ:107:ASP:CB	2.63	0.47
24:BA:1799:G:O2'	24:BA:1800:C:O4'	2.31	0.47
24:BA:1813:G:H4'	27:BD:46:GLN:CG	2.42	0.47
24:BA:1903:G:C2	24:BA:1904:G:C5	3.03	0.47
24:BA:1941:C:C6	24:BA:1965:C:C4	3.02	0.47
24:BA:197:A:H62	24:BA:248:G:N2	2.00	0.47
24:BA:2065:C:O2'	24:BA:2449:U:O2	2.33	0.47
24:BA:2213:U:H5''	24:BA:2213:U:C2	2.50	0.47
24:BA:2298:A:H3'	24:BA:2299:G:C8	2.49	0.47
24:BA:2400:G:C6	24:BA:2401:U:C2	3.03	0.47
24:BA:2553:G:C5'	24:BA:2554:U:OP2	2.63	0.47
24:BA:2617:C:OP2	24:BA:2617:C:C6	2.67	0.47
24:BA:270(K):C:N4	24:BA:270(M):U:C6	2.83	0.47
24:BA:2720:U:O4	24:BA:2872:G:C5	2.67	0.47
24:BA:273:G:C5	24:BA:273(A):G:N7	2.83	0.47
24:BA:2877:G:C3'	24:BA:2878:U:C6	2.94	0.47
24:BA:304:G:O2'	24:BA:305:U:H5'	2.15	0.47
24:BA:359:A:O3'	24:BA:360:G:C8	2.68	0.47
24:BA:428:A:C2'	24:BA:428:A:N3	2.78	0.47
24:BA:499:U:C6	24:BA:503:A:N6	2.83	0.47
24:BA:530:G:N2	24:BA:2021:C:C2'	2.78	0.47
24:BA:537:C:H2'	24:BA:539:G:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:566:U:H6	24:BA:567:A:C8	2.32	0.47
24:BA:703:U:C3'	24:BA:704:G:O4'	2.63	0.47
24:BA:718:A:H3'	24:BA:719:C:O4'	2.14	0.47
24:BA:848:G:C3'	24:BA:848:G:C8	2.98	0.47
24:BA:848:G:H5''	24:BA:848:G:C8	2.50	0.47
24:BA:90:U:H5'	24:BA:91:A:OP1	2.15	0.47
24:BA:932:G:C2'	24:BA:933:A:C8	2.87	0.47
25:BB:20:C:H2'	25:BB:21:G:O4'	2.15	0.47
25:BB:73:A:N3	25:BB:74:U:C6	2.83	0.47
25:BB:85:G:C4	25:BB:92:G:C2	3.02	0.47
24:BA:1566:A:H2	27:BD:215:LEU:HD13	1.68	0.47
27:BD:34:VAL:O	27:BD:36:PRO:CD	2.62	0.47
27:BD:55:GLY:H	27:BD:218:ARG:HD2	1.79	0.47
27:BD:75:ILE:HD13	27:BD:99:ASP:OD1	2.15	0.47
24:BA:2619:C:H5'	28:BE:151:TYR:O	2.13	0.47
28:BE:91:VAL:HG23	28:BE:180:ASN:CG	2.34	0.47
28:BE:172:VAL:CA	28:BE:184:VAL:HG12	2.43	0.47
28:BE:53:PRO:O	28:BE:53:PRO:HG2	2.15	0.47
28:BE:61:ARG:O	28:BE:62:PRO:C	2.51	0.47
28:BE:80:GLU:N	28:BE:80:GLU:CD	2.68	0.47
31:BH:120:GLY:C	31:BH:135:GLY:HA2	2.35	0.47
31:BH:71:LEU:O	31:BH:74:ASN:CB	2.61	0.47
33:BL:27:LEU:CB	33:BL:32:ALA:HB3	2.43	0.47
34:BM:112:LEU:O	34:BM:115:ARG:N	2.48	0.47
34:BM:107:LEU:CB	34:BM:117:PHE:CZ	2.98	0.47
34:BM:74:ARG:CG	34:BM:76:SER:OG	2.63	0.47
36:BO:97:PRO:HD3	36:BO:102:ARG:NH1	2.28	0.47
36:BO:122:PRO:CG	36:BO:137:LYS:C	2.77	0.47
36:BO:16:ARG:HG3	36:BO:19:VAL:HG22	1.92	0.47
37:BP:25:ASP:C	37:BP:102:VAL:HB	2.34	0.47
24:BA:2723:C:HO2'	38:BQ:2:ARG:CA	2.28	0.47
38:BQ:96:ARG:C	38:BQ:114:VAL:HG13	2.35	0.47
39:BR:79:ALA:O	39:BR:81:GLY:N	2.47	0.47
40:BS:61:PHE:CD1	40:BS:81:PRO:HD3	2.41	0.47
41:BT:105:VAL:O	41:BT:108:GLU:OE2	2.32	0.47
41:BT:106:PHE:O	41:BT:107:ALA:C	2.51	0.47
41:BT:114:LYS:HB3	41:BT:114:LYS:HE2	1.36	0.47
41:BT:12:ARG:O	41:BT:13:LYS:C	2.53	0.47
24:BA:531:C:O2	41:BT:28:ARG:NE	2.47	0.47
41:BT:39:LEU:C	41:BT:41:ALA:N	2.68	0.47
43:BV:1:MET:N	43:BV:4:LYS:HD3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:152:ALA:C	46:BY:155:LEU:HD22	2.34	0.47
46:BY:20:ARG:HB2	46:BY:20:ARG:NH1	2.28	0.47
46:BY:69:THR:HG1	46:BY:70:LEU:H	1.63	0.47
47:BZ:51:VAL:CG1	47:BZ:59:LEU:HD22	2.45	0.47
3:AD:19:G:P	3:AD:20:U:O4	2.72	0.47
24:BA:2112:G:N3	24:BA:2112:G:C2'	2.77	0.47
26:BC:49:ILE:CD1	26:BC:51:PRO:HD3	2.45	0.47
26:BC:75:LEU:HG	26:BC:77:ILE:HG12	1.96	0.47
24:BA:2161:C:C2	24:BA:2162:G:C8	3.02	0.47
26:BC:108:MET:CE	26:BC:131:LEU:HA	2.44	0.47
26:BC:22:ILE:CG2	26:BC:189:ILE:HG21	2.43	0.47
26:BC:190:ARG:HG3	26:BC:190:ARG:NH1	2.30	0.47
26:BC:46:LYS:CD	26:BC:210:ARG:HB2	2.43	0.47
3:AD:43:C:H2'	3:AD:44:G:H8	1.78	0.47
3:AD:44:G:C6	3:AD:45:U:O2	2.68	0.47
18:AS:67:THR:HG22	18:AS:68:ASP:N	2.30	0.47
1:AA:443:C:C6	1:AA:492:G:N2	2.83	0.47
1:AA:1015:A:N7	1:AA:1016:A:N6	2.63	0.47
24:BA:1284:A:C6	24:BA:1285:G:N1	2.82	0.47
1:AA:1029:G:C4	1:AA:1032(A):G:N1	2.82	0.47
24:BA:55:G:N3	24:BA:56:A:C8	2.83	0.47
24:BA:2183:C:C2	24:BA:2184:G:C8	3.02	0.47
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.32	0.47
1:AA:1119:C:H2'	1:AA:1120:G:N7	2.27	0.47
1:AA:1128:C:O4'	1:AA:1148:U:O4	2.33	0.47
1:AA:1180:A:H8	1:AA:1180:A:O5'	1.98	0.47
1:AA:1228:C:OP1	15:AP:115:LYS:CB	2.63	0.47
1:AA:1317:C:OP1	1:AA:1317:C:C5	2.68	0.47
1:AA:1371:G:H5'	11:AL:68:GLY:O	2.15	0.47
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.15	0.47
1:AA:1461:G:O2'	1:AA:1462:G:C5'	2.62	0.47
1:AA:1428:A:N6	1:AA:1473:A:N6	2.62	0.47
1:AA:1483:A:H2'	1:AA:1484:C:O4'	2.13	0.47
1:AA:927:G:O5'	1:AA:1503:A:N7	2.47	0.47
1:AA:152:A:N7	1:AA:153:C:C5	2.83	0.47
1:AA:307:C:C4	1:AA:308:C:C5	2.82	0.47
1:AA:332:G:H2'	1:AA:333:G:C8	2.39	0.47
1:AA:397:A:HO2'	1:AA:398:C:H3'	1.78	0.47
1:AA:519:C:O2'	1:AA:520:A:H5'	2.14	0.47
1:AA:581:G:C6	1:AA:758:G:N7	2.83	0.47
1:AA:592:G:O2'	1:AA:593:G:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:606:G:H22	1:AA:631:G:H2'	1.79	0.47
1:AA:695:A:C4	1:AA:696:A:C8	3.02	0.47
1:AA:737:A:H2'	1:AA:738:C:H6	1.79	0.47
1:AA:767:A:C6	1:AA:768:A:C5	3.03	0.47
1:AA:84:U:H2'	1:AA:85:U:C1'	2.44	0.47
1:AA:964:A:C2	1:AA:965:A:N7	2.83	0.47
3:AB:37:A:H2'	3:AB:38:A:H5'	1.96	0.47
3:AB:76:A:O2'	24:BA:2583:G:N2	2.47	0.47
3:AC:15:G:H22	3:AC:48:C:N4	2.04	0.47
3:AC:76:A:H2	24:BA:2506:U:N3	2.12	0.47
4:AE:110:GLN:O	4:AE:113:HIS:HB3	2.15	0.47
4:AE:186:ALA:O	4:AE:201:ILE:CB	2.57	0.47
4:AE:234:PRO:HB2	4:AE:238:LEU:CD2	2.45	0.47
4:AE:33:TYR:CB	4:AE:43:ASP:HB2	2.45	0.47
2:A1:18:U:C4	4:AE:76:GLN:NE2	2.82	0.47
5:AF:5:ILE:HD13	5:AF:10:PHE:CE2	2.49	0.47
6:AG:61:LYS:CG	6:AG:207:TYR:CE1	2.92	0.47
6:AG:79:PHE:CD2	6:AG:80:GLU:N	2.83	0.47
8:AI:71:ARG:O	8:AI:72:VAL:C	2.53	0.47
10:AK:14:ARG:CZ	10:AK:15:ASN:ND2	2.78	0.47
10:AK:34:GLU:C	10:AK:37:ARG:HB3	2.32	0.47
11:AL:46:ALA:HB1	11:AL:77:ILE:CG2	2.45	0.47
12:AM:9:ARG:CB	12:AM:9:ARG:NH1	2.78	0.47
13:AN:22:HIS:CD2	13:AN:23:ALA:N	2.83	0.47
13:AN:84:VAL:HG21	20:AU:88:LYS:HZ2	1.78	0.47
13:AN:99:GLN:HA	13:AN:105:VAL:CG2	2.44	0.47
14:AO:102:ARG:CZ	14:AO:110:VAL:N	2.78	0.47
14:AO:24:VAL:HG13	14:AO:98:TYR:OH	2.15	0.47
14:AO:86:ARG:HH22	14:AO:119:LYS:HD3	1.80	0.47
15:AP:33:ALA:HB2	15:AP:64:TRP:CZ3	2.49	0.47
16:AQ:23:ARG:CD	16:AQ:30:ALA:HB2	2.44	0.47
18:AS:4:ILE:HG12	18:AS:66:PRO:CA	2.44	0.47
19:AT:43:LEU:HD11	19:AT:69:LYS:CB	2.45	0.47
20:AU:51:LEU:H	20:AU:51:LEU:CD1	2.28	0.47
20:AU:56:THR:O	20:AU:57:GLY:C	2.53	0.47
20:AU:31:LEU:HD23	20:AU:65:ILE:HG13	1.95	0.47
22:AW:11:SER:O	22:AW:12:ALA:HB2	2.13	0.47
22:AW:49:ALA:O	22:AW:53:LEU:HG	2.14	0.47
48:B1:46:ARG:HE	48:B1:50:ARG:HH22	1.63	0.47
51:B4:58:LEU:CD2	51:B4:59:GLU:N	2.67	0.47
52:B5:22:ALA:O	52:B5:23:THR:CB	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:43:THR:CA	53:B6:46:VAL:HB	2.44	0.47
53:B6:46:VAL:O	53:B6:47:ARG:O	2.32	0.47
54:B7:58:ILE:HD12	54:B7:59:LYS:H	1.79	0.47
54:B7:4:MET:HE1	54:B7:62:LEU:HG	1.94	0.47
24:BA:253:C:H41	54:B7:7:HIS:HD1	1.63	0.47
24:BA:1001:A:N6	24:BA:1002:G:C2	2.82	0.47
24:BA:1031:G:C2	24:BA:1032:A:C5	3.03	0.47
24:BA:1111:A:O2'	24:BA:1112:G:C1'	2.48	0.47
24:BA:1168:G:C6	24:BA:1169:G:C5	3.03	0.47
24:BA:1203:G:N2	24:BA:1206:G:N1	2.63	0.47
24:BA:814:C:C3'	24:BA:1224:G:H22	2.28	0.47
24:BA:1229:G:C2'	24:BA:1230:C:H5'	2.44	0.47
24:BA:1265:A:C1'	24:BA:1267:U:C4	2.91	0.47
24:BA:1338:G:N2	24:BA:1339:G:H1'	2.30	0.47
24:BA:1385:G:C6	24:BA:1386:C:C4	3.03	0.47
24:BA:1453:A:N7	38:BQ:73:VAL:CG1	2.77	0.47
24:BA:1530:G:H2'	24:BA:1531:C:C5	2.48	0.47
24:BA:1596:A:C6	24:BA:1597:A:C6	3.03	0.47
24:BA:1672:C:H3'	24:BA:1673:U:C5'	2.36	0.47
24:BA:1688:U:N3	24:BA:1700:A:C5'	2.77	0.47
24:BA:1709:U:C6	24:BA:1709:U:H5'	2.46	0.47
24:BA:1826:G:N2	24:BA:1827:C:H1'	2.29	0.47
24:BA:1829:A:C6	24:BA:1830:C:H1'	2.49	0.47
24:BA:1847:A:N1	24:BA:1851:U:O4	2.47	0.47
24:BA:1927:A:C6	24:BA:1928:A:N1	2.83	0.47
24:BA:1964:G:H4'	24:BA:1965:C:OP2	2.15	0.47
24:BA:2062:A:C2'	24:BA:2063:C:OP1	2.63	0.47
24:BA:2244:U:O2'	24:BA:2245:U:O5'	2.33	0.47
24:BA:2298:A:C2'	24:BA:2299:G:H8	2.27	0.47
24:BA:2320:A:C5'	24:BA:2321:G:C5	2.91	0.47
24:BA:2325:G:N7	24:BA:2326:C:C5	2.83	0.47
24:BA:233:A:C5	24:BA:234:C:C5	3.03	0.47
24:BA:2354:G:H1'	47:BZ:34:GLY:O	2.14	0.47
24:BA:2394:C:H5'	54:B7:12:LYS:NZ	2.29	0.47
24:BA:2459:A:C2	24:BA:2492:U:O4	2.54	0.47
24:BA:2505:G:C8	24:BA:2505:G:H3'	2.50	0.47
24:BA:2535:G:H5'	24:BA:2536:G:OP2	2.15	0.47
24:BA:2553:G:C2	24:BA:2554:U:H1'	2.39	0.47
24:BA:2579:C:O2'	24:BA:2580:U:H5'	2.14	0.47
24:BA:270(X):G:H5''	24:BA:273:G:OP1	2.14	0.47
24:BA:2688:U:O4	24:BA:2719:G:H3'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2740:A:C6	24:BA:2741:A:C6	3.03	0.47
24:BA:2815:C:O2'	24:BA:2816:C:C5'	2.52	0.47
24:BA:2812:G:N2	24:BA:2889:C:C2	2.83	0.47
24:BA:323:G:C6	24:BA:333:G:C8	3.03	0.47
24:BA:477:A:O2'	24:BA:478:A:H5'	2.15	0.47
24:BA:594:U:OP1	54:B7:61:LEU:HB3	2.14	0.47
24:BA:666:G:P	24:BA:666:G:H3'	2.55	0.47
24:BA:690:G:C6	24:BA:691:C:C4	3.02	0.47
24:BA:729:G:H2'	24:BA:730:C:C2'	2.44	0.47
24:BA:783:A:O2'	24:BA:784:A:H5'	2.15	0.47
24:BA:782:A:C5'	24:BA:783:A:OP1	2.62	0.47
24:BA:887:A:H4'	24:BA:889:C:H5"	1.97	0.47
24:BA:919:G:H2'	24:BA:920:G:O5'	2.14	0.47
24:BA:958:U:O2'	24:BA:959:A:O5'	2.33	0.47
25:BB:110:G:C6	25:BB:111:U:C2	3.03	0.47
25:BB:7:G:C6	25:BB:8:U:N3	2.83	0.47
27:BD:72:LYS:O	27:BD:73:VAL:C	2.53	0.47
28:BE:14:ILE:HD12	28:BE:14:ILE:N	2.15	0.47
28:BE:4:ILE:CG1	28:BE:27:LEU:HD13	2.41	0.47
28:BE:82:ARG:NE	28:BE:82:ARG:HA	2.30	0.47
28:BE:91:VAL:O	28:BE:92:THR:CB	2.61	0.47
28:BE:97:LYS:HG3	28:BE:100:GLU:CG	2.45	0.47
29:BF:38:ARG:O	29:BF:42:ALA:HB2	2.14	0.47
29:BF:65:TRP:HA	29:BF:65:TRP:CE3	2.49	0.47
24:BA:2312:U:O4'	30:BG:43:LEU:HD22	2.15	0.47
31:BH:13:LYS:CG	31:BH:15:VAL:HB	2.45	0.47
31:BH:32:GLU:O	31:BH:33:LEU:C	2.52	0.47
31:BH:7:LEU:CD1	31:BH:65:HIS:NE2	2.73	0.47
34:BM:30:ILE:C	34:BM:33:LEU:HB3	2.33	0.47
35:BN:10:VAL:C	35:BN:17:ARG:CG	2.80	0.47
36:BO:78:PRO:HG3	36:BO:116:GLY:HA2	1.96	0.47
36:BO:117:GLU:CG	36:BO:118:GLY:H	2.22	0.47
37:BP:106:VAL:CG2	37:BP:107:ALA:N	2.53	0.47
37:BP:109:VAL:HG12	37:BP:110:THR:N	2.29	0.47
37:BP:15:GLY:HA2	37:BP:73:PRO:HG2	1.96	0.47
37:BP:66:ILE:HG22	37:BP:67:ARG:O	2.14	0.47
38:BQ:18:LEU:HB3	38:BQ:22:ARG:NH2	2.22	0.47
24:BA:2000:G:OP2	38:BQ:2:ARG:CD	2.63	0.47
38:BQ:67:LEU:HD21	38:BQ:71:GLN:HA	1.97	0.47
38:BQ:90:ARG:HH22	38:BQ:117:VAL:HG13	1.78	0.47
39:BR:106:ARG:HD2	39:BR:107:GLU:OE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:122:LEU:CA	40:BS:74:ARG:NH1	2.68	0.47
34:BM:4:TYR:HE2	41:BT:100:VAL:HB	1.80	0.47
41:BT:61:TRP:HB3	41:BT:65:ILE:HD11	1.97	0.47
41:BT:93:LYS:O	42:BU:6:LYS:NZ	2.32	0.47
41:BT:98:LEU:HD13	41:BT:101:ARG:HD2	1.97	0.47
42:BU:20:LEU:CD1	42:BU:68:LYS:NZ	2.73	0.47
42:BU:78:LYS:HE2	42:BU:84:LYS:CG	2.45	0.47
43:BV:13:SER:OG	43:BV:16:LYS:HE3	2.14	0.47
43:BV:8:ARG:NH2	43:BV:102:HIS:CE1	2.83	0.47
45:BX:54:LYS:C	45:BX:56:PRO:HD3	2.35	0.47
45:BX:75:ILE:CD1	45:BX:75:ILE:O	2.62	0.47
45:BX:74:PRO:CD	45:BX:76:CYS:O	2.63	0.47
46:BY:152:ALA:HB3	46:BY:168:GLU:H	1.80	0.47
46:BY:39:VAL:CG2	46:BY:44:PHE:CE2	2.87	0.47
25:BB:102:G:C2'	46:BY:73:GLN:NE2	2.63	0.47
47:BZ:28:GLY:C	47:BZ:67:VAL:HB	2.35	0.47
47:BZ:49:LYS:HB2	47:BZ:80:HIS:ND1	2.30	0.47
32:BK:79:ILE:HA	32:BK:80:PRO:HD3	1.67	0.47
3:AD:48:C:C5	3:AD:59:U:C2	3.03	0.47
24:BA:2110:G:C2'	24:BA:2120:G:H5'	2.45	0.47
24:BA:2133:G:O6	24:BA:2157:G:C8	2.68	0.47
26:BC:137:LEU:HD23	26:BC:138:PRO:HD2	1.95	0.47
26:BC:175:VAL:HG21	26:BC:189:ILE:HG12	1.95	0.47
24:BA:1114:G:H21	24:BA:1115:G:H1'	1.69	0.47
33:BL:14:ALA:CB	33:BL:53:VAL:CG2	2.92	0.47
43:BV:85:VAL:HG23	43:BV:85:VAL:O	2.14	0.47
2:A1:46:U:C6	2:A1:46:U:C3'	2.98	0.47
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.96	0.47
1:AA:1085:U:H5''	1:AA:1086:U:H5	1.78	0.47
1:AA:1270:C:HO2'	1:AA:1313:U:HO2'	1.59	0.47
1:AA:1274:G:H2'	1:AA:1275:A:H8	1.78	0.47
1:AA:1340:A:H2'	1:AA:1341:U:H6	1.80	0.47
1:AA:1390:U:C4	1:AA:1391:U:O4	2.68	0.47
1:AA:1475:G:C2'	1:AA:1476:G:O5'	2.63	0.47
1:AA:1476:G:H2'	1:AA:1477:C:C5	2.50	0.47
1:AA:251:G:N3	1:AA:266:G:C6	2.83	0.47
1:AA:25:C:H4'	1:AA:524:G:N2	2.30	0.47
1:AA:285:G:C5	1:AA:286:G:N7	2.83	0.47
1:AA:29:G:C5'	1:AA:296:U:OP1	2.59	0.47
1:AA:536:C:C6	1:AA:536:C:O5'	2.68	0.47
1:AA:59:A:H61	1:AA:331:G:H1'	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:67:C:O2'	1:AA:171:A:H1'	2.15	0.47
1:AA:686:U:HO2'	1:AA:687:A:P	2.37	0.47
1:AA:697:U:C6	1:AA:697:U:O5'	2.62	0.47
1:AA:841:U:OP2	1:AA:842:C:N4	2.48	0.47
1:AA:872:A:C6	1:AA:874:G:C5	3.03	0.47
1:AA:936:C:C2'	1:AA:937:A:C5'	2.92	0.47
1:AA:981:U:C6	1:AA:982:U:C5	3.03	0.47
3:AC:31:A:C2	3:AC:40:C:C4	3.03	0.47
3:AD:5:G:C2	3:AD:6:G:C5	3.02	0.47
4:AE:104:ASN:O	4:AE:107:THR:HB	2.15	0.47
4:AE:135:GLN:C	4:AE:139:LYS:NZ	2.59	0.47
4:AE:179:LYS:C	4:AE:181:PHE:H	2.18	0.47
4:AE:219:VAL:HA	4:AE:222:ILE:CG1	2.45	0.47
4:AE:73:THR:HA	4:AE:94:ASN:HA	1.96	0.47
5:AF:12:LEU:HD21	16:AQ:57:ARG:HG2	1.91	0.47
5:AF:186:PHE:CA	5:AF:198:VAL:O	2.59	0.47
5:AF:152:ILE:O	5:AF:199:LYS:O	2.33	0.47
5:AF:22:TRP:CZ2	16:AQ:54:PRO:HG2	2.50	0.47
5:AF:57:ILE:HG23	5:AF:66:VAL:HG22	1.96	0.47
6:AG:170:VAL:CG1	6:AG:174:LEU:HD12	2.45	0.47
6:AG:26:CYS:SG	6:AG:26:CYS:O	2.73	0.47
6:AG:64:LEU:CD1	6:AG:65:ARG:N	2.76	0.47
7:AH:47:LYS:O	7:AH:57:LYS:HE2	2.15	0.47
7:AH:77:PRO:HG2	7:AH:78:HIS:H	1.79	0.47
9:AJ:45:ASP:HB2	9:AJ:117:ALA:CB	2.44	0.47
11:AL:4:TYR:CG	11:AL:88:TYR:HB2	2.50	0.47
12:AM:54:PHE:H	16:AQ:41:ARG:HH21	1.63	0.47
13:AN:21:ILE:HD11	13:AN:82:VAL:CG1	2.45	0.47
15:AP:66:LEU:HA	15:AP:70:LEU:HB2	1.97	0.47
15:AP:79:LYS:O	15:AP:82:MET:HB2	2.14	0.47
17:AR:29:VAL:O	17:AR:33:THR:OG1	2.25	0.47
1:AA:376:G:H4'	18:AS:28:ARG:CB	2.45	0.47
19:AT:4:LYS:CG	19:AT:5:VAL:N	2.77	0.47
19:AT:75:ARG:HG2	19:AT:75:ARG:NH1	2.30	0.47
19:AT:80:GLY:O	19:AT:81:ARG:C	2.54	0.47
20:AU:36:ASN:O	20:AU:37:VAL:C	2.52	0.47
22:AW:38:LYS:O	22:AW:41:ILE:N	2.48	0.47
22:AW:57:ARG:HH11	22:AW:57:ARG:HG2	1.80	0.47
49:B2:8:LEU:CB	49:B2:33:GLN:HB3	2.44	0.47
49:B2:6:VAL:CG2	49:B2:35:ARG:NH2	2.77	0.47
50:B3:58:ARG:H	50:B3:61:ARG:HH12	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:70:GLY:O	50:B3:71:ARG:CB	2.63	0.47
52:B5:17:LYS:HG2	52:B5:19:ARG:HE	1.79	0.47
52:B5:14:THR:CB	52:B5:51:GLU:HA	2.30	0.47
52:B5:7:ILE:HG23	52:B5:8:LYS:H	1.79	0.47
24:BA:459:U:OP2	53:B6:40:TRP:CG	2.68	0.47
54:B7:3:LYS:HE2	54:B7:59:LYS:HE2	1.97	0.47
24:BA:242:G:H5''	54:B7:4:MET:SD	2.55	0.47
24:BA:2528:U:OP1	55:B8:30:PRO:HG2	2.15	0.47
24:BA:1029:A:O5'	24:BA:1029:A:C8	2.60	0.47
24:BA:1027:A:N6	24:BA:1126:A:H1'	2.27	0.47
24:BA:1234:U:H2'	24:BA:1235:G:O4'	2.14	0.47
24:BA:1351:C:C4	24:BA:1381:G:C6	3.02	0.47
24:BA:1339:G:O4'	24:BA:1393:A:C2	2.68	0.47
24:BA:1424:G:O4'	24:BA:1424:G:OP2	2.32	0.47
24:BA:1425:G:C6	24:BA:1426:G:O6	2.68	0.47
24:BA:142:G:H2'	24:BA:143:C:C5	2.49	0.47
24:BA:1432:C:N3	24:BA:1433:U:O2	2.48	0.47
24:BA:1519:G:H3'	24:BA:1520:U:C1'	2.45	0.47
24:BA:1613:G:C8	24:BA:1617:C:N4	2.82	0.47
24:BA:1699:G:C2'	24:BA:1700:A:OP1	2.62	0.47
24:BA:1891:G:C5	24:BA:1892:C:C5	3.03	0.47
24:BA:1916:A:O2'	24:BA:1917:U:C2	2.66	0.47
24:BA:1923:U:H2'	24:BA:1924:C:C6	2.50	0.47
24:BA:1949:G:N7	24:BA:1950:G:N7	2.63	0.47
24:BA:194:G:H2'	24:BA:195:A:H8	1.76	0.47
24:BA:1964:G:C2	24:BA:1967:C:H5	2.27	0.47
24:BA:1973:G:C4	24:BA:1974:C:C5	3.03	0.47
24:BA:2097:C:H2'	24:BA:2098:U:C4'	2.44	0.47
24:BA:2325:G:N7	24:BA:2326:C:H5	2.13	0.47
24:BA:2364:C:N4	24:BA:2365:G:C6	2.83	0.47
24:BA:2383:G:C2	24:BA:2384:G:C4	3.03	0.47
24:BA:2404:C:C4	24:BA:2414:G:C2	3.03	0.47
24:BA:2431:U:C2	24:BA:2433:A:OP2	2.68	0.47
24:BA:2450:A:OP1	24:BA:2497:A:C8	2.67	0.47
24:BA:2530:A:H2'	24:BA:2531:A:H5''	1.96	0.47
24:BA:2601:C:O2	24:BA:2603:G:C8	2.68	0.47
24:BA:2616:C:C2'	24:BA:2617:C:C6	2.97	0.47
24:BA:2676:C:N3	24:BA:2677:G:N7	2.63	0.47
24:BA:2758:A:P	24:BA:2759:G:OP2	2.73	0.47
24:BA:2812:G:C4	24:BA:2813:A:N7	2.83	0.47
24:BA:2850:A:OP2	24:BA:2866:U:C5	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:291:C:C5	24:BA:292:C:C5	3.03	0.47
24:BA:301:G:C8	24:BA:334:C:C2	3.03	0.47
24:BA:342:G:H2'	24:BA:343:C:O4'	2.15	0.47
24:BA:349:G:H2'	24:BA:350:U:C5	2.49	0.47
24:BA:349:G:C6	24:BA:350:U:O4	2.68	0.47
24:BA:416:C:C4	24:BA:417:C:C4	3.03	0.47
24:BA:451:C:C4	24:BA:453:C:H3'	2.49	0.47
24:BA:467:G:O2'	24:BA:468:G:H5'	2.14	0.47
24:BA:473:G:N2	24:BA:474:G:C4	2.83	0.47
24:BA:496:G:C6	24:BA:497:A:C5	3.03	0.47
24:BA:570:G:N1	24:BA:2498:C:C4'	2.59	0.47
24:BA:585:G:O2'	24:BA:586:A:C8	2.57	0.47
24:BA:587:C:C6	24:BA:671:C:H1'	2.50	0.47
24:BA:587:C:HO2'	24:BA:588:U:P	2.38	0.47
24:BA:689:A:C4	24:BA:690:G:C8	3.02	0.47
24:BA:746:A:N7	24:BA:2612:C:O5'	2.48	0.47
24:BA:763:G:H2'	24:BA:764:A:C5'	2.44	0.47
24:BA:827:U:C4	24:BA:2430:A:C6	3.03	0.47
24:BA:836:G:C5	24:BA:837:C:C4	3.03	0.47
24:BA:857:C:O2'	47:BZ:23:VAL:HG11	2.15	0.47
24:BA:865:C:C2'	24:BA:865:C:O2	2.63	0.47
24:BA:988:A:C2	24:BA:989:G:C2	3.02	0.47
25:BB:87:G:N2	25:BB:89:G:C8	2.82	0.47
27:BD:148:GLU:OE1	27:BD:154:LYS:NZ	2.48	0.47
27:BD:42:GLY:HA2	27:BD:60:ARG:NH2	2.26	0.47
28:BE:21:VAL:O	28:BE:185:LYS:HB2	2.15	0.47
28:BE:104:VAL:HG22	28:BE:198:VAL:CB	2.44	0.47
28:BE:8:LYS:HG3	28:BE:24:THR:HG21	1.97	0.47
29:BF:116:ASP:HA	29:BF:119:ARG:HD2	1.96	0.47
29:BF:124:LEU:CD2	29:BF:197:ASP:OD2	2.63	0.47
29:BF:135:LYS:HB3	29:BF:138:GLU:OE2	2.15	0.47
29:BF:154:VAL:HG23	29:BF:156:LEU:CD2	2.45	0.47
29:BF:6:VAL:HB	29:BF:18:ARG:CD	2.40	0.47
30:BG:107:LEU:HD21	30:BG:173:LEU:HD21	1.95	0.47
30:BG:9:ARG:CG	30:BG:13:GLU:OE2	2.62	0.47
31:BH:161:GLY:C	31:BH:163:TYR:HE1	2.18	0.47
31:BH:163:TYR:N	31:BH:163:TYR:CD1	2.83	0.47
24:BA:2751:G:C1'	31:BH:6:ARG:HH22	2.28	0.47
31:BH:94:TYR:CD2	31:BH:95:ARG:N	2.82	0.47
33:BL:81:ALA:CB	33:BL:107:ILE:HD13	2.45	0.47
34:BM:107:LEU:HD13	34:BM:117:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:134:ARG:N	34:BM:135:PRO:CD	2.78	0.47
34:BM:42:TRP:HE1	41:BT:64:ARG:CG	2.27	0.47
35:BN:70:LYS:HD3	35:BN:107:ARG:HH12	1.76	0.47
35:BN:70:LYS:CB	35:BN:72:PRO:HD2	2.43	0.47
35:BN:8:LEU:HD13	35:BN:82:ASN:HA	1.95	0.47
36:BO:113:LYS:HD3	36:BO:113:LYS:C	2.35	0.47
37:BP:68:ILE:CD1	37:BP:97:VAL:HG13	2.45	0.47
39:BR:75:GLU:O	39:BR:78:LEU:HD12	2.15	0.47
39:BR:92:TYR:CE1	39:BR:93:LYS:HB3	2.49	0.47
40:BS:17:THR:HG21	40:BS:22:PHE:CZ	2.50	0.47
41:BT:32:PHE:O	41:BT:36:ARG:HG2	2.14	0.47
41:BT:33:ARG:C	41:BT:35:ALA:N	2.66	0.47
41:BT:96:ALA:O	41:BT:99:ALA:N	2.48	0.47
42:BU:67:GLY:CA	42:BU:94:LEU:HA	2.45	0.47
42:BU:8:GLY:HA3	42:BU:24:LYS:NZ	2.30	0.47
43:BV:58:ALA:CB	43:BV:69:LEU:HD21	2.45	0.47
44:BW:5:TYR:HB3	48:B1:24:LYS:CD	2.40	0.47
45:BX:84:ARG:HB2	45:BX:92:ASN:O	2.15	0.47
46:BY:100:VAL:HG23	46:BY:102:LEU:HD23	1.96	0.47
46:BY:15:PRO:O	46:BY:19:ARG:HD2	2.14	0.47
47:BZ:29:GLN:OE1	47:BZ:67:VAL:HG21	2.15	0.47
24:BA:2127:G:N2	24:BA:2128:C:C2	2.83	0.47
26:BC:56:GLN:NE2	26:BC:203:GLY:O	2.47	0.47
26:BC:54:SER:CB	26:BC:57:ASN:HD22	2.28	0.47
3:AD:54:U:H4'	26:BC:54:SER:OG	2.14	0.47
24:BA:1484:G:C6	24:BA:1485:G:C5	3.03	0.47
24:BA:1589:C:O2'	24:BA:1590:U:H5'	2.15	0.47
1:AA:1173:G:C2'	1:AA:1174:G:H5''	2.45	0.47
39:BR:59:LYS:CD	39:BR:59:LYS:H	2.28	0.47
33:BL:61:ALA:O	33:BL:62:ASP:CB	2.63	0.47
6:AG:151:LYS:N	6:AG:151:LYS:CD	2.78	0.47
1:AA:1121:U:C6	1:AA:1121:U:O5'	2.68	0.47
12:AM:17:ASP:O	12:AM:21:GLN:HB3	2.14	0.47
2:A1:31:U:H2'	2:A1:32:U:C6	2.50	0.47
1:AA:1124:G:N2	1:AA:1127:G:C4	2.83	0.47
1:AA:1124:G:H2'	1:AA:1126:U:O4	2.15	0.47
1:AA:112:G:C2	1:AA:113:G:C8	3.03	0.47
1:AA:1142:G:O2'	1:AA:1143:G:C5'	2.61	0.47
1:AA:1054:C:P	1:AA:1197:G:P	3.13	0.47
1:AA:1272:G:H2'	1:AA:1273:G:C8	2.49	0.47
1:AA:1224:G:O6	1:AA:1322:C:C4'	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:135:C:O2	18:AS:1:MET:HG2	2.14	0.47
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.15	0.47
1:AA:1407:C:C2'	1:AA:1408:A:C5'	2.86	0.47
1:AA:141:A:H2'	1:AA:142:G:O4'	2.14	0.47
1:AA:1507:A:C2'	1:AA:1508:G:C5'	2.92	0.47
1:AA:815:A:C6	1:AA:1529:G:C2	3.03	0.47
1:AA:155:C:H2'	1:AA:156:G:O4'	2.15	0.47
1:AA:261:U:H5''	1:AA:262:A:OP2	2.15	0.47
1:AA:485:G:HO2'	1:AA:486:U:H6	1.60	0.47
1:AA:541:G:OP2	1:AA:541:G:H8	1.97	0.47
1:AA:544:G:C4	1:AA:545:C:C5	3.03	0.47
1:AA:588:G:H2'	1:AA:588:G:N3	2.28	0.47
1:AA:691:G:O6	13:AN:26:ASN:O	2.33	0.47
1:AA:748:C:H1'	1:AA:749:C:C5	2.50	0.47
1:AA:896:C:N3	1:AA:897:C:C5	2.83	0.47
1:AA:908:A:C2	1:AA:909:A:C8	3.03	0.47
1:AA:914:A:H2'	1:AA:915:A:N7	2.30	0.47
1:AA:977:A:H2'	1:AA:977:A:N3	2.30	0.47
1:AA:994:A:N7	1:AA:1216:G:C4'	2.69	0.47
3:AB:38:A:H2'	3:AB:39:U:C6	2.48	0.47
3:AB:55:U:OP1	46:BY:178:GLU:CD	2.53	0.47
4:AE:160:ASP:O	4:AE:161:ALA:HB2	2.15	0.47
4:AE:189:ASP:OD2	4:AE:205:ASP:CG	2.54	0.47
4:AE:216:SER:O	4:AE:220:ASP:OD1	2.33	0.47
4:AE:223:ILE:HA	4:AE:226:ARG:HD2	1.97	0.47
4:AE:55:PHE:O	4:AE:58:ILE:CB	2.63	0.47
5:AF:120:VAL:HG21	5:AF:137:ALA:HB2	1.96	0.47
5:AF:132:ARG:C	5:AF:136:GLN:NE2	2.69	0.47
5:AF:88:ARG:N	5:AF:101:LEU:HD12	2.30	0.47
6:AG:38:TYR:CZ	6:AG:45:GLN:NE2	2.83	0.47
6:AG:63:LYS:CG	6:AG:64:LEU:N	2.77	0.47
7:AH:129:ILE:O	7:AH:132:ALA:HB3	2.15	0.47
7:AH:39:GLY:C	7:AH:68:GLU:OE1	2.54	0.47
7:AH:76:ILE:CG2	7:AH:142:LEU:HD13	2.44	0.47
8:AI:33:TYR:CZ	8:AI:75:LEU:HA	2.49	0.47
8:AI:46:ARG:HG2	8:AI:47:ARG:N	2.29	0.47
9:AJ:64:GLN:C	9:AJ:128:ALA:HA	2.36	0.47
9:AJ:37:ASN:O	9:AJ:38:LEU:C	2.53	0.47
10:AK:101:PRO:O	10:AK:102:ARG:HG3	2.14	0.47
10:AK:126:LYS:NZ	10:AK:127:LEU:CD2	2.73	0.47
10:AK:114:THR:HA	10:AK:130:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:121:ARG:CG	11:AL:121:ARG:HH11	2.26	0.47
11:AL:17:VAL:CG2	11:AL:77:ILE:HG23	2.44	0.47
12:AM:97:GLU:C	12:AM:98:ILE:HD12	2.36	0.47
13:AN:121:PRO:HB2	13:AN:125:PHE:CD1	2.49	0.47
14:AO:115:LYS:O	14:AO:116:SER:O	2.33	0.47
15:AP:24:GLY:C	15:AP:66:LEU:HD13	2.35	0.47
15:AP:78:ILE:O	15:AP:81:LEU:HD13	2.15	0.47
16:AQ:35:ARG:C	16:AQ:37:PHE:N	2.67	0.47
16:AQ:36:PHE:CE2	16:AQ:37:PHE:CE1	3.03	0.47
17:AR:18:PHE:O	17:AR:18:PHE:CD1	2.68	0.47
17:AR:75:PRO:HA	17:AR:78:TYR:CD1	2.49	0.47
1:AA:392:G:C5'	18:AS:12:LYS:HZ3	2.27	0.47
1:AA:376:G:OP1	18:AS:6:LEU:CD1	2.62	0.47
19:AT:18:THR:CG2	19:AT:43:LEU:HD21	2.30	0.47
20:AU:46:GLU:CB	20:AU:85:LEU:HD13	2.27	0.47
22:AW:14:LYS:O	22:AW:18:GLN:HG3	2.15	0.47
22:AW:31:SER:O	22:AW:32:ALA:C	2.53	0.47
22:AW:38:LYS:O	22:AW:39:LYS:C	2.53	0.47
22:AW:43:LEU:HB2	22:AW:55:ILE:CD1	2.44	0.47
22:AW:99:LEU:H	22:AW:99:LEU:HD23	1.80	0.47
49:B2:48:GLU:CG	49:B2:49:LYS:N	2.78	0.47
52:B5:19:ARG:O	52:B5:19:ARG:NH1	2.47	0.47
24:BA:1613:G:H1'	53:B6:3:ARG:NE	2.30	0.47
24:BA:2539:C:H1'	55:B8:2:LYS:HZ2	1.80	0.47
24:BA:1030:G:C2	24:BA:1031:G:C4	3.02	0.47
24:BA:1077:A:N7	24:BA:1078:U:N3	2.63	0.47
24:BA:1142(A):A:H3'	24:BA:1143:A:H5'	1.94	0.47
24:BA:1350:C:C2'	24:BA:1351:C:O5'	2.63	0.47
24:BA:187:G:C2'	24:BA:1365:A:C2	2.95	0.47
24:BA:1343:G:C2	24:BA:1405:U:C2	3.03	0.47
24:BA:1448:G:C2'	24:BA:1449:A:H8	2.27	0.47
24:BA:1493:C:N4	24:BA:1499:C:C2	2.82	0.47
24:BA:1449:A:C1'	24:BA:1529:A:C6	2.98	0.47
24:BA:1727:U:C5	24:BA:1730:U:O4	2.68	0.47
24:BA:1741:C:H2'	24:BA:1742:C:C1'	2.44	0.47
24:BA:1753:G:N2	24:BA:1756:G:N3	2.63	0.47
24:BA:1679:U:N3	24:BA:1764:G:H5''	2.29	0.47
24:BA:1878:G:C5	24:BA:1879:C:C5	3.03	0.47
24:BA:1906:G:C1'	24:BA:1929:G:C8	2.98	0.47
24:BA:1953:A:N6	24:BA:2550:G:C5'	2.78	0.47
24:BA:1954:G:O2'	24:BA:1955:U:C5'	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1958:C:H2'	24:BA:1959:G:O5'	2.14	0.47
24:BA:2011:U:H3'	24:BA:2012:G:H8	1.80	0.47
24:BA:2040:C:H4'	34:BM:72:TYR:CE2	2.50	0.47
24:BA:197:A:H5''	24:BA:2068:U:O4	2.14	0.47
24:BA:2067:G:C2	24:BA:2069:G:N9	2.83	0.47
24:BA:2077:A:H1'	24:BA:2435:A:O4'	2.15	0.47
24:BA:2077:A:O2'	24:BA:2434:A:H4'	2.15	0.47
24:BA:2286:A:N1	52:B5:28:ARG:C	2.68	0.47
24:BA:2324:C:O2'	24:BA:2325:G:OP1	2.31	0.47
24:BA:2071:A:C2	24:BA:2441:C:C4	3.03	0.47
24:BA:2505:G:H8	24:BA:2505:G:H3'	1.78	0.47
24:BA:2585:U:C2'	24:BA:2586:C:OP2	2.62	0.47
24:BA:2642:G:C6	24:BA:2643:G:C5	3.03	0.47
24:BA:2734:A:H3'	24:BA:2735:G:O4'	2.13	0.47
24:BA:2750:A:C8	24:BA:2753:A:N6	2.83	0.47
24:BA:342:G:OP2	24:BA:342:G:H8	1.98	0.47
24:BA:364:C:C2	24:BA:365:C:C5	3.03	0.47
24:BA:448:U:O4	24:BA:583:G:C1'	2.60	0.47
24:BA:548:A:H61	24:BA:549:G:H21	1.62	0.47
24:BA:616:A:O3'	24:BA:617:G:O4'	2.32	0.47
24:BA:260:G:O4'	24:BA:621:A:O4'	2.31	0.47
24:BA:64:A:N3	44:BW:66:LEU:CD2	2.71	0.47
24:BA:675:A:N6	24:BA:804:A:C4	2.83	0.47
24:BA:723:G:C2	24:BA:724:U:H1'	2.50	0.47
24:BA:695:G:C5	24:BA:768:G:C6	3.03	0.47
24:BA:885:C:C5	24:BA:887:A:N3	2.82	0.47
24:BA:979:G:N7	24:BA:981:A:OP2	2.47	0.47
25:BB:81:G:O6	25:BB:96:G:O6	2.33	0.47
27:BD:101:GLU:OE1	27:BD:102:LYS:O	2.33	0.47
27:BD:168:ARG:HA	27:BD:174:ILE:HD12	1.97	0.47
27:BD:62:TYR:N	27:BD:63:ARG:HH22	2.13	0.47
27:BD:91:ARG:NH1	27:BD:198:ASN:ND2	2.63	0.47
28:BE:121:ASN:O	28:BE:122:PHE:C	2.52	0.47
28:BE:49:LEU:CD1	28:BE:51:PHE:H	2.26	0.47
29:BF:168:ARG:H	29:BF:168:ARG:HG3	1.36	0.47
29:BF:200:GLU:CD	29:BF:201:VAL:H	2.15	0.47
29:BF:75:HIS:NE2	29:BF:77:ASP:O	2.48	0.47
30:BG:94:LEU:H	30:BG:94:LEU:HD13	1.80	0.47
24:BA:2748:A:C2	31:BH:67:LEU:HD11	2.50	0.47
33:BL:111:LYS:O	33:BL:113:PRO:CD	2.63	0.47
33:BL:129:GLY:HA2	33:BL:132:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:79:ARG:CD	33:BL:134:MET:HG3	2.36	0.47
34:BM:107:LEU:HD11	34:BM:113:GLY:C	2.33	0.47
35:BN:21:CYS:CA	35:BN:40:VAL:O	2.62	0.47
35:BN:63:VAL:CG2	35:BN:81:ASP:CA	2.90	0.47
24:BA:2685:G:P	35:BN:67:LYS:HD2	2.55	0.47
35:BN:68:GLU:HB2	35:BN:104:ARG:CD	2.44	0.47
35:BN:9:GLU:O	35:BN:82:ASN:CA	2.62	0.47
36:BO:70:GLN:O	36:BO:71:VAL:CG2	2.63	0.47
36:BO:95:VAL:HG12	36:BO:95:VAL:O	2.15	0.47
37:BP:118:LEU:O	37:BP:119:ARG:C	2.53	0.47
39:BR:106:ARG:HD3	39:BR:107:GLU:CD	2.35	0.47
39:BR:106:ARG:HD3	39:BR:107:GLU:OE2	2.15	0.47
39:BR:13:ARG:O	39:BR:16:ASN:OD1	2.32	0.47
35:BN:106:LEU:CB	40:BS:39:ARG:HH22	2.08	0.47
40:BS:76:PHE:CE2	40:BS:78:LEU:HD12	2.49	0.47
41:BT:25:TRP:HE3	41:BT:25:TRP:C	2.18	0.47
41:BT:36:ARG:O	41:BT:40:PHE:HD1	1.98	0.47
42:BU:37:VAL:HG13	42:BU:37:VAL:O	2.15	0.47
42:BU:38:LEU:O	42:BU:39:LEU:O	2.33	0.47
42:BU:74:LYS:C	42:BU:75:PHE:CG	2.88	0.47
42:BU:99:ILE:O	42:BU:100:ARG:O	2.33	0.47
45:BX:21:LYS:HD2	45:BX:23:ARG:HH22	1.80	0.47
45:BX:83:THR:HG21	45:BX:84:ARG:NH1	2.29	0.47
45:BX:85:VAL:O	45:BX:87:LYS:N	2.47	0.47
46:BY:1:MET:SD	46:BY:2:GLU:N	2.88	0.47
47:BZ:74:ARG:O	47:BZ:75:LEU:C	2.53	0.47
3:AD:16:U:O5'	3:AD:16:U:H6	1.97	0.47
24:BA:1488:G:H3'	24:BA:1489:U:C5'	2.44	0.47
1:AA:161:A:C6	1:AA:162:A:C6	3.03	0.47
24:BA:1511:A:C3'	24:BA:1511:A:C8	2.98	0.47
24:BA:1417:C:H1'	24:BA:1587:A:N3	2.30	0.47
3:AD:27:G:H2'	3:AD:28:G:C8	2.49	0.47
38:BQ:60:LEU:HD23	38:BQ:60:LEU:N	2.30	0.47
14:AO:125:PRO:O	14:AO:127:GLU:N	2.46	0.47
1:AA:1061:G:H2'	1:AA:1062:U:O4'	2.15	0.46
1:AA:1067:A:O2'	1:AA:1068:G:O5'	2.33	0.46
1:AA:1134:G:N2	1:AA:1136:U:C4	2.84	0.46
1:AA:1148:U:H5'	11:AL:16:ARG:HG3	1.96	0.46
1:AA:954:G:H21	1:AA:1227:A:H62	1.62	0.46
1:AA:1240:U:C2	9:AJ:32:ARG:NE	2.83	0.46
1:AA:1305:G:C2	1:AA:1331:G:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1354:C:H6	1:AA:1354:C:O5'	1.98	0.46
1:AA:1433:A:H62	1:AA:1467:G:H21	0.82	0.46
1:AA:1483:A:H3'	1:AA:1484:C:H6	1.80	0.46
1:AA:1486:G:C6	1:AA:1487:G:C5	3.02	0.46
1:AA:68:G:H5'	1:AA:171:A:C1'	2.45	0.46
1:AA:209:U:OP2	1:AA:209:U:C6	2.68	0.46
1:AA:19:C:C2	1:AA:20:U:C5	3.03	0.46
1:AA:311:C:HO2'	1:AA:312:C:H5'	1.79	0.46
1:AA:51:A:N1	1:AA:116:A:C4	2.83	0.46
1:AA:593:G:C6	1:AA:647:C:N3	2.83	0.46
1:AA:666:G:N2	1:AA:741:G:H1'	2.30	0.46
1:AA:686:U:O2'	1:AA:687:A:P	2.73	0.46
1:AA:763:G:N3	1:AA:764:C:C6	2.83	0.46
1:AA:817:C:C5	1:AA:819:A:O4'	2.68	0.46
1:AA:966:G:N2	3:AC:34:G:H5'	2.30	0.46
1:AA:978:A:C3'	1:AA:978:A:C8	2.98	0.46
1:AA:993:G:O6	1:AA:1046:A:N6	2.48	0.46
3:AB:58:A:H5''	3:AB:59:U:OP1	2.15	0.46
3:AC:28:G:C4	3:AC:29:G:N7	2.84	0.46
3:AC:41:C:H3'	3:AC:41:C:OP2	2.15	0.46
3:AC:63:G:H2'	3:AC:64:A:O4'	2.15	0.46
3:AC:72:C:O2'	3:AC:73:A:O4'	2.24	0.46
4:AE:118:LEU:HD12	4:AE:145:LEU:HD23	1.97	0.46
4:AE:71:VAL:HG21	4:AE:93:VAL:HB	1.96	0.46
5:AF:204:LEU:O	5:AF:205:GLY:C	2.53	0.46
6:AG:20:TYR:C	6:AG:22:LYS:H	2.12	0.46
7:AH:151:LEU:HA	7:AH:151:LEU:HD23	1.59	0.46
7:AH:53:LEU:O	7:AH:54:ALA:C	2.53	0.46
8:AI:70:ASP:O	8:AI:73:ASN:ND2	2.48	0.46
9:AJ:129:GLU:HB3	9:AJ:131:LYS:HE2	1.97	0.46
9:AJ:75:VAL:HG13	9:AJ:87:VAL:C	2.35	0.46
10:AK:120:THR:OG1	10:AK:122:ARG:NH1	2.45	0.46
10:AK:6:ILE:CG2	10:AK:85:ARG:NH1	2.78	0.46
11:AL:97:LYS:HD2	11:AL:102:LEU:HD22	1.98	0.46
11:AL:22:GLY:O	11:AL:58:HIS:O	2.33	0.46
11:AL:53:VAL:HG21	11:AL:92:TYR:CD1	2.48	0.46
12:AM:60:ARG:O	12:AM:61:GLU:HB2	2.15	0.46
14:AO:121:GLY:O	14:AO:122:THR:OG1	2.29	0.46
14:AO:36:VAL:HG13	14:AO:36:VAL:O	2.14	0.46
15:AP:14:ARG:HA	15:AP:45:VAL:N	2.26	0.46
17:AR:3:ILE:CD1	17:AR:3:ILE:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:586:C:P	19:AT:34:LYS:NZ	2.89	0.46
20:AU:43:PHE:CD2	20:AU:56:THR:HG22	2.50	0.46
21:AV:10:PHE:O	21:AV:39:THR:HB	2.15	0.46
1:AA:1320:C:C6	21:AV:37:ARG:NH1	2.83	0.46
21:AV:39:THR:C	21:AV:40:ILE:O	2.53	0.46
21:AV:30:LEU:HD12	21:AV:59:PRO:CB	2.45	0.46
22:AW:51:GLU:CA	22:AW:54:LYS:CE	2.92	0.46
23:AX:4:GLY:C	23:AX:6:ARG:H	2.18	0.46
48:B1:33:GLN:NE2	48:B1:33:GLN:H	2.11	0.46
24:BA:96:G:H4'	48:B1:43:HIS:NE2	2.29	0.46
48:B1:54:ARG:NH2	48:B1:54:ARG:CG	2.78	0.46
53:B6:10:ARG:O	53:B6:14:LYS:HG3	2.15	0.46
53:B6:21:ARG:HG2	53:B6:31:LEU:CG	2.44	0.46
24:BA:1024:G:C4'	24:BA:1025:G:H5''	2.43	0.46
24:BA:1141:U:H5'	24:BA:1142(A):A:N6	2.30	0.46
24:BA:976:C:C4'	24:BA:1156:A:N7	2.78	0.46
24:BA:1167:U:C2	24:BA:1183:G:N2	2.83	0.46
24:BA:1268:A:N6	24:BA:2013:A:N7	2.63	0.46
24:BA:1339:G:H1'	24:BA:1393:A:C2	2.50	0.46
24:BA:1359:A:N6	24:BA:1360:A:C5	2.83	0.46
24:BA:1434:A:N1	24:BA:1435:G:C4	2.83	0.46
24:BA:1631:A:C6	24:BA:1632:A:N1	2.83	0.46
24:BA:1658:C:H2'	24:BA:1658:C:O2	2.15	0.46
24:BA:1831:G:C6	24:BA:1975:G:C6	3.02	0.46
24:BA:1919:A:P	24:BA:1919:A:C8	3.08	0.46
24:BA:2013:A:C6	24:BA:2014:A:C6	3.03	0.46
24:BA:2015:A:H8	24:BA:2016:U:C5	2.33	0.46
24:BA:2092:U:H2'	24:BA:2092:U:O2	2.15	0.46
24:BA:2194:G:C2'	24:BA:2195:C:H5	2.28	0.46
24:BA:2199:A:C2	24:BA:2225:A:C2	3.03	0.46
24:BA:221:A:C2'	24:BA:222:A:OP2	2.63	0.46
24:BA:2327:A:C4	24:BA:2328:A:C8	3.03	0.46
24:BA:233:A:C5	24:BA:234:C:C6	3.03	0.46
24:BA:2392:A:C2'	24:BA:2393:A:C5'	2.93	0.46
24:BA:2420:C:OP2	54:B7:33:ASN:O	2.33	0.46
24:BA:199:A:C6	24:BA:2433:A:N3	2.83	0.46
24:BA:2439:A:C4'	24:BA:2440:C:O5'	2.63	0.46
24:BA:2443:C:C2	24:BA:2444:G:N7	2.83	0.46
3:AB:63:G:C4'	24:BA:2482:G:HO2'	2.20	0.46
24:BA:2497:A:O2'	24:BA:2498:C:C5	2.61	0.46
24:BA:2607:G:N1	24:BA:2608:G:N3	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2630:G:C5	24:BA:2894:G:C6	3.03	0.46
24:BA:2685:G:H8	24:BA:2685:G:OP2	1.98	0.46
24:BA:270(Q):C:H2'	24:BA:270(R):G:C8	2.46	0.46
24:BA:280:C:H3'	24:BA:282:A:P	2.55	0.46
24:BA:2838:G:C6	24:BA:2839:G:N7	2.82	0.46
24:BA:2899:G:C6	24:BA:2900:A:N7	2.83	0.46
24:BA:400:G:H3'	24:BA:400:G:H8	1.78	0.46
24:BA:473:G:N1	24:BA:474:G:C6	2.83	0.46
24:BA:535:C:HO2'	24:BA:536:A:H5'	1.80	0.46
24:BA:539:G:C2	24:BA:540:G:C5	3.03	0.46
24:BA:730:C:O2	24:BA:731:C:C5	2.68	0.46
24:BA:782:A:H4'	24:BA:783:A:N7	2.30	0.46
24:BA:466:A:C2	24:BA:796:C:O4'	2.68	0.46
24:BA:812:C:C2	24:BA:813:U:C5	3.03	0.46
24:BA:853:G:O2'	24:BA:854:G:O4'	2.26	0.46
24:BA:906:G:N2	24:BA:907:U:C2	2.83	0.46
24:BA:822:U:OP2	24:BA:945:A:C3'	2.63	0.46
24:BA:963:U:H2'	24:BA:964:C:O5'	2.15	0.46
25:BB:15:A:N3	25:BB:109:G:H1'	2.30	0.46
25:BB:88:C:H6	25:BB:88:C:O5'	1.97	0.46
27:BD:159:ALA:HA	27:BD:196:VAL:CG1	2.44	0.46
27:BD:228:PRO:O	27:BD:229:VAL:C	2.53	0.46
27:BD:27:THR:HG22	27:BD:29:PRO:HD3	1.90	0.46
24:BA:2731:G:O3'	28:BE:168:MET:HE2	2.14	0.46
29:BF:7:TYR:HD2	29:BF:119:ARG:HB3	1.78	0.46
30:BG:125:PHE:O	30:BG:126:ASP:CB	2.61	0.46
30:BG:123:ASN:ND2	30:BG:126:ASP:OD2	2.47	0.46
30:BG:59:GLU:CB	30:BG:152:LEU:HD13	2.45	0.46
30:BG:3:LEU:HD22	30:BG:4:ASP:OD2	2.14	0.46
31:BH:103:LEU:O	31:BH:104:GLU:C	2.53	0.46
31:BH:24:VAL:HG21	31:BH:72:ILE:HD13	1.97	0.46
31:BH:54:ARG:HB3	31:BH:54:ARG:HH21	1.80	0.46
32:BK:22:LYS:HB2	32:BK:25:TYR:CG	2.50	0.46
24:BA:2198:A:C6	32:BK:29:TYR:HB3	2.51	0.46
33:BL:113:PRO:O	33:BL:115:LEU:N	2.41	0.46
33:BL:71:THR:CB	33:BL:114:ASP:HB3	2.45	0.46
34:BM:7:LYS:HD2	34:BM:10:GLU:HB2	1.97	0.46
34:BM:53:VAL:HG13	34:BM:121:LYS:O	2.15	0.46
34:BM:86:PRO:HD2	34:BM:89:LYS:CD	2.44	0.46
35:BN:23:ARG:CG	35:BN:23:ARG:HH11	2.28	0.46
35:BN:61:VAL:O	35:BN:61:VAL:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:32:GLY:C	38:BQ:116:LEU:HD21	2.32	0.46
38:BQ:20:LEU:HD21	38:BQ:24:GLN:CD	2.35	0.46
38:BQ:53:HIS:C	38:BQ:53:HIS:ND1	2.68	0.46
39:BR:20:ARG:NH2	39:BR:20:ARG:CB	2.58	0.46
40:BS:104:ASN:HA	40:BS:108:ARG:NH1	2.29	0.46
40:BS:65:LYS:HA	40:BS:76:PHE:C	2.35	0.46
41:BT:54:LYS:HA	41:BT:54:LYS:CE	2.45	0.46
41:BT:80:ILE:O	41:BT:81:HIS:C	2.52	0.46
41:BT:88:ILE:CB	42:BU:52:VAL:HG22	2.45	0.46
42:BU:28:GLU:HB3	42:BU:94:LEU:CD1	2.25	0.46
42:BU:5:VAL:HG11	42:BU:37:VAL:CG2	2.45	0.46
42:BU:69:LYS:HE2	42:BU:70:ILE:HG13	1.97	0.46
42:BU:7:THR:C	42:BU:9:GLY:N	2.69	0.46
45:BX:31:LEU:O	45:BX:32:PRO:C	2.49	0.46
45:BX:38:ILE:CG2	45:BX:60:PHE:HZ	2.27	0.46
46:BY:149:SER:O	46:BY:150:LEU:HD23	2.16	0.46
46:BY:36:LYS:HB3	46:BY:38:TYR:CE2	2.50	0.46
46:BY:59:LEU:HD11	46:BY:66:SER:OG	2.15	0.46
24:BA:2257:U:OP1	47:BZ:11:ARG:CZ	2.63	0.46
24:BA:2117:A:N6	24:BA:2171:A:C6	2.84	0.46
26:BC:124:GLY:O	26:BC:128:GLY:HA3	2.15	0.46
26:BC:49:ILE:CG1	26:BC:51:PRO:HD3	2.45	0.46
24:BA:2101:G:O2'	24:BA:2102:U:H5'	2.16	0.46
2:A1:6:U:C2'	2:A1:7:U:C5	2.88	0.46
1:AA:1164:G:N1	1:AA:1165:C:C2	2.82	0.46
24:BA:273(E):U:C2	24:BA:363(B):G:C2	3.03	0.46
3:AB:66:U:C4	3:AB:67:C:C5	3.03	0.46
2:A1:8:U:H5'	4:AE:19:HIS:CE1	2.50	0.46
1:AA:1034:G:H2'	1:AA:1035:A:H8	1.81	0.46
1:AA:1075:C:C4'	1:AA:1101:A:N6	2.71	0.46
1:AA:1133:G:C6	1:AA:1142:G:C6	3.03	0.46
1:AA:1189:C:O5'	1:AA:1189:C:H6	1.99	0.46
1:AA:1193:G:C3'	1:AA:1193:G:C8	2.98	0.46
1:AA:1323:G:H4'	1:AA:1362(A):C:N4	2.29	0.46
1:AA:1402:C:C5	1:AA:1403:C:C5	3.03	0.46
1:AA:150:C:O2	1:AA:151:A:C8	2.68	0.46
1:AA:148:G:C2	1:AA:175:C:C4	3.03	0.46
1:AA:175:C:H2'	1:AA:176:C:H6	1.80	0.46
1:AA:184:G:O4'	1:AA:224:C:H4'	2.14	0.46
1:AA:20:U:H5	1:AA:916:G:N1	2.12	0.46
1:AA:292:G:H3'	1:AA:293:G:H8	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:352:C:H4'	1:AA:354:G:OP1	2.15	0.46
1:AA:362:G:C8	14:AO:34:ARG:NH2	2.65	0.46
1:AA:375:U:O3'	18:AS:6:LEU:HD11	2.15	0.46
1:AA:47:C:C5	1:AA:365:U:C2	3.03	0.46
1:AA:47:C:O2'	1:AA:48:C:O5'	2.33	0.46
1:AA:571:U:H4'	1:AA:572:A:OP2	2.16	0.46
1:AA:573:A:N1	1:AA:574:A:C6	2.83	0.46
1:AA:293:G:H5'	1:AA:609:A:N1	2.30	0.46
1:AA:728:A:N6	1:AA:729:A:C6	2.83	0.46
1:AA:817:C:H1'	1:AA:819:A:C5'	2.46	0.46
1:AA:81:G:H5''	1:AA:82:U:OP2	2.16	0.46
1:AA:901:A:H2'	1:AA:902:G:O5'	2.15	0.46
1:AA:929:G:C6	1:AA:930:C:C4	3.03	0.46
3:AC:69:G:H2'	3:AC:70:G:H8	1.80	0.46
3:AD:76:A:C2	24:BA:2432:A:O5'	2.68	0.46
3:AD:76:A:P	24:BA:2421:G:N2	2.86	0.46
1:AA:1104:G:H4'	4:AE:111:ARG:NH2	2.30	0.46
4:AE:32:ILE:HG22	4:AE:32:ILE:O	2.14	0.46
4:AE:48:MET:O	4:AE:49:GLU:C	2.50	0.46
4:AE:73:THR:CG2	4:AE:95:GLN:O	2.59	0.46
5:AF:194:GLY:O	5:AF:196:LEU:HD23	2.15	0.46
5:AF:8:ILE:CD1	5:AF:16:ARG:HD2	2.44	0.46
6:AG:145:GLU:CB	6:AG:184:LYS:HG2	2.36	0.46
6:AG:17:VAL:O	6:AG:19:LEU:CD2	2.63	0.46
6:AG:82:ALA:C	6:AG:89:THR:HG23	2.35	0.46
8:AI:1:MET:CA	8:AI:67:MET:O	2.64	0.46
8:AI:24:GLU:O	8:AI:27:GLN:N	2.49	0.46
9:AJ:106:GLN:N	9:AJ:106:GLN:HE21	2.12	0.46
9:AJ:143:ARG:O	9:AJ:145:ALA:O	2.33	0.46
9:AJ:38:LEU:CA	9:AJ:41:ARG:HB2	2.45	0.46
10:AK:82:HIS:CD2	10:AK:138:TRP:NE1	2.83	0.46
1:AA:1342:C:C4'	11:AL:125:TYR:HB2	2.37	0.46
13:AN:28:THR:CG2	13:AN:29:ILE:H	2.28	0.46
13:AN:32:ILE:HD13	13:AN:72:ALA:HA	1.97	0.46
1:AA:551:U:C5'	14:AO:119:LYS:HZ3	2.23	0.46
15:AP:108:ARG:HH12	15:AP:111:LYS:HB3	1.73	0.46
15:AP:20:THR:CG2	15:AP:20:THR:O	2.64	0.46
15:AP:20:THR:O	15:AP:25:ILE:O	2.34	0.46
18:AS:71:ARG:CB	18:AS:71:ARG:NH1	2.78	0.46
19:AT:43:LEU:CD2	19:AT:44:ALA:N	2.61	0.46
19:AT:91:ARG:HG2	19:AT:92:ARG:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:16:LEU:HD12	21:AV:44:MET:CE	2.38	0.46
22:AW:25:ARG:HH11	22:AW:25:ARG:CG	2.26	0.46
22:AW:38:LYS:HA	22:AW:41:ILE:HD12	1.97	0.46
22:AW:60:GLU:OE1	22:AW:81:LYS:HD3	2.15	0.46
23:AX:15:ARG:HB3	23:AX:17:THR:HG23	1.97	0.46
48:B1:17:GLU:O	48:B1:21:ARG:HG2	2.14	0.46
50:B3:58:ARG:C	50:B3:62:ARG:NE	2.69	0.46
50:B3:64:GLY:O	50:B3:67:TYR:HB2	2.14	0.46
50:B3:7:PRO:O	50:B3:8:LYS:CB	2.63	0.46
51:B4:15:ARG:O	51:B4:16:ARG:C	2.54	0.46
52:B5:16:CYS:HB2	52:B5:49:HIS:C	2.34	0.46
54:B7:26:LYS:CE	54:B7:45:GLY:H	2.28	0.46
24:BA:1024:G:N1	24:BA:1025:G:N7	2.63	0.46
24:BA:1065:U:N3	24:BA:1066:U:O4'	2.48	0.46
24:BA:1256:G:H2'	24:BA:1257:C:O5'	2.16	0.46
24:BA:122:G:N2	24:BA:130:C:H1'	2.31	0.46
24:BA:1542:G:C1'	24:BA:1543:A:C5	2.98	0.46
24:BA:1654:A:N1	24:BA:1655:A:C8	2.84	0.46
24:BA:1683:C:C2'	24:BA:1684:C:O5'	2.63	0.46
24:BA:1690:A:H2'	24:BA:1691:C:C5'	2.44	0.46
24:BA:1754:C:OP1	40:BS:98:LYS:HD2	2.15	0.46
24:BA:1789:A:H2'	24:BA:1789:A:N3	2.30	0.46
24:BA:1803:A:H5''	27:BD:257:LEU:HB3	1.97	0.46
24:BA:1914:C:C2	24:BA:1915:U:H5	2.34	0.46
24:BA:1936:A:N9	24:BA:1940:U:N3	2.64	0.46
24:BA:2033:A:O5'	24:BA:2033:A:H8	1.99	0.46
24:BA:2046:G:H2'	24:BA:2047:U:H5	1.78	0.46
24:BA:397:G:HO2'	24:BA:2231:C:H1'	1.79	0.46
24:BA:2334:G:H22	25:BB:12:C:N4	2.03	0.46
24:BA:2377:A:H2'	24:BA:2378:A:N7	2.30	0.46
24:BA:237:C:N3	24:BA:238:C:C5	2.84	0.46
24:BA:2562:U:H2'	24:BA:2563:U:C5'	2.45	0.46
24:BA:2583:G:H5''	24:BA:2584:U:OP2	2.15	0.46
24:BA:2665:A:H8	24:BA:2665:A:C3'	2.09	0.46
24:BA:2705:A:H8	24:BA:2705:A:O5'	1.98	0.46
24:BA:270(R):G:C2	24:BA:270(S):G:C4	3.03	0.46
24:BA:270(Z):U:O2	24:BA:271(B):G:OP1	2.32	0.46
24:BA:2756:U:C4	24:BA:2758:A:C6	3.00	0.46
24:BA:2780:G:N2	34:BM:97:ARG:CZ	2.77	0.46
24:BA:278:A:N7	24:BA:359:A:H2	2.12	0.46
24:BA:2826:A:C5	24:BA:2827:C:C5	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:294:A:N6	24:BA:345:A:C6	2.83	0.46
24:BA:37:C:O2'	29:BF:50:SER:HA	2.14	0.46
24:BA:416:C:C5	24:BA:417:C:C4	3.03	0.46
24:BA:29:U:O4	24:BA:447:A:H5''	2.14	0.46
24:BA:46:C:OP2	24:BA:215:G:C3'	2.55	0.46
24:BA:553:U:H2'	24:BA:554:U:C1'	2.45	0.46
24:BA:638:G:O6	24:BA:639:U:N3	2.48	0.46
24:BA:629:G:H5'	24:BA:649:G:N2	2.31	0.46
24:BA:64:A:H4'	44:BW:73:ARG:H	1.79	0.46
24:BA:666:G:H2'	24:BA:667:U:H6	1.79	0.46
24:BA:714:U:H6	24:BA:714:U:P	2.38	0.46
24:BA:729:G:O2'	24:BA:730:C:O3'	2.30	0.46
24:BA:813:U:OP2	36:BO:26:GLY:CA	2.57	0.46
24:BA:858:U:H2'	24:BA:2268:A:N7	2.30	0.46
24:BA:918:A:H2	24:BA:919:G:C8	2.33	0.46
24:BA:569:U:OP1	24:BA:945:A:C6	2.68	0.46
24:BA:952:G:C6	24:BA:966:G:N1	2.83	0.46
25:BB:27:C:N4	25:BB:56:G:C6	2.74	0.46
28:BE:125:GLY:H	28:BE:136:ARG:CA	2.24	0.46
24:BA:2619:C:H5''	28:BE:152:LYS:CA	2.45	0.46
28:BE:33:VAL:HG22	28:BE:47:VAL:C	2.35	0.46
28:BE:52:LEU:CA	28:BE:74:PRO:HA	2.29	0.46
28:BE:53:PRO:HG2	28:BE:75:VAL:HG13	1.97	0.46
29:BF:39:TRP:C	29:BF:39:TRP:CD2	2.88	0.46
30:BG:101:ILE:CD1	30:BG:101:ILE:O	2.52	0.46
30:BG:16:ARG:C	30:BG:20:ILE:HG13	2.36	0.46
30:BG:174:GLU:OE2	30:BG:175:LEU:CG	2.61	0.46
30:BG:19:LEU:O	30:BG:20:ILE:C	2.54	0.46
30:BG:36:LYS:HZ3	30:BG:38:VAL:HG13	1.78	0.46
31:BH:101:ARG:HE	31:BH:101:ARG:HA	1.80	0.46
33:BL:10:LEU:HD22	33:BL:57:ILE:HG12	1.94	0.46
35:BN:52:VAL:O	35:BN:53:LYS:CB	2.64	0.46
35:BN:64:ARG:HE	35:BN:67:LYS:C	2.19	0.46
35:BN:70:LYS:HE2	35:BN:104:ARG:HG2	1.96	0.46
36:BO:137:LYS:N	36:BO:137:LYS:HZ2	2.13	0.46
36:BO:33:ARG:O	36:BO:35:HIS:N	2.48	0.46
38:BQ:61:HIS:CE1	38:BQ:64:ARG:HE	2.33	0.46
39:BR:70:GLY:C	39:BR:72:ALA:N	2.68	0.46
39:BR:82:ILE:HG13	39:BR:84:GLN:HE22	1.80	0.46
40:BS:48:ILE:CG2	40:BS:50:ILE:HD11	2.46	0.46
40:BS:29:ARG:HG2	40:BS:51:ARG:CB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:54:ARG:CA	40:BS:64:ARG:HB2	2.44	0.46
40:BS:87:ASP:O	40:BS:88:ILE:HG13	2.14	0.46
24:BA:515:A:H5'	41:BT:32:PHE:CZ	2.50	0.46
41:BT:32:PHE:O	41:BT:35:ALA:CB	2.59	0.46
41:BT:33:ARG:O	41:BT:35:ALA:N	2.48	0.46
43:BV:24:ILE:CG2	43:BV:35:ILE:HG23	2.45	0.46
44:BW:49:VAL:HG23	44:BW:50:LYS:N	2.29	0.46
44:BW:87:GLN:CD	44:BW:87:GLN:N	2.68	0.46
46:BY:77:ASP:HB3	46:BY:81:ARG:O	2.15	0.46
24:BA:2353:G:O2'	47:BZ:33:ALA:O	2.32	0.46
47:BZ:40:GLN:HE21	47:BZ:57:PHE:HB3	1.80	0.46
26:BC:113:VAL:O	26:BC:144:THR:HG22	2.15	0.46
26:BC:188:ASN:O	26:BC:189:ILE:C	2.54	0.46
48:B1:6:GLU:O	48:B1:9:ARG:N	2.48	0.46
1:AA:1382:C:H2'	1:AA:1383:C:C5	2.50	0.46
10:AK:54:ASP:O	10:AK:56:LYS:CD	2.62	0.46
32:BK:51:ILE:O	32:BK:52:ARG:C	2.53	0.46
4:AE:230:VAL:HG12	4:AE:231:GLU:N	2.29	0.46
1:AA:1072:G:C6	1:AA:1104:G:N1	2.84	0.46
1:AA:1284:C:N3	1:AA:1285:A:C6	2.83	0.46
1:AA:1468:A:C2'	1:AA:1469:G:O5'	2.63	0.46
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.50	0.46
1:AA:1480:G:H2'	1:AA:1481:U:O5'	2.14	0.46
1:AA:1486:G:C2	1:AA:1487:G:C4	3.02	0.46
1:AA:1508:G:O2'	1:AA:1509:C:C5'	2.63	0.46
1:AA:141:A:O2'	1:AA:182:U:C6	2.58	0.46
1:AA:322:C:O2'	1:AA:323:U:C5'	2.56	0.46
1:AA:34:C:H2'	1:AA:35:G:C8	2.43	0.46
1:AA:390:C:C2'	1:AA:391:G:O5'	2.64	0.46
1:AA:424:G:C2	1:AA:425:G:C8	3.04	0.46
1:AA:494:U:H2'	1:AA:495:A:H5'	1.96	0.46
1:AA:59:A:H1'	1:AA:354:G:C2	2.50	0.46
1:AA:600:C:N3	1:AA:601:C:C5	2.83	0.46
1:AA:706:A:H4'	13:AN:29:ILE:HD11	1.98	0.46
1:AA:734:G:H8	1:AA:734:G:OP1	1.99	0.46
1:AA:89:U:C2	1:AA:90:C:C5	3.03	0.46
1:AA:20:U:C6	1:AA:916:G:N2	2.83	0.46
1:AA:945:G:C6	1:AA:1337:G:C5	3.03	0.46
3:AC:14:A:C5	3:AC:15:G:N7	2.83	0.46
3:AD:76:A:C2'	24:BA:2432:A:H4'	2.45	0.46
4:AE:100:GLY:C	4:AE:104:ASN:ND2	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:139:LYS:CG	4:AE:140:HIS:H	2.23	0.46
4:AE:115:LEU:CB	4:AE:145:LEU:HG	2.44	0.46
5:AF:122:GLU:O	5:AF:125:GLU:N	2.48	0.46
5:AF:127:ARG:C	5:AF:128:PHE:HD1	2.18	0.46
5:AF:190:ARG:CA	5:AF:190:ARG:NE	2.73	0.46
6:AG:149:ALA:O	6:AG:150:GLU:O	2.34	0.46
6:AG:20:TYR:HA	6:AG:31:CYS:SG	2.55	0.46
6:AG:62:GLN:C	6:AG:66:ARG:HD2	2.36	0.46
6:AG:77:ASN:HA	6:AG:80:GLU:OE2	2.16	0.46
6:AG:80:GLU:O	6:AG:81:GLU:C	2.51	0.46
7:AH:102:ALA:O	7:AH:107:ARG:NH2	2.48	0.46
7:AH:133:TYR:HA	7:AH:136:MET:HG2	1.96	0.46
7:AH:84:PHE:HZ	7:AH:133:TYR:HB3	1.68	0.46
7:AH:149:GLU:OE2	7:AH:149:GLU:HA	2.15	0.46
7:AH:48:ALA:HB3	7:AH:54:ALA:N	2.30	0.46
8:AI:19:LEU:HD11	8:AI:23:LYS:HZ2	1.80	0.46
8:AI:21:LEU:O	8:AI:25:ILE:HG13	2.15	0.46
10:AK:19:VAL:O	10:AK:20:TYR:CB	2.63	0.46
11:AL:37:PHE:HB3	11:AL:40:LEU:HB2	1.96	0.46
12:AM:24:VAL:CG2	12:AM:34:VAL:HG11	2.42	0.46
13:AN:73:MET:C	13:AN:75:TYR:H	2.18	0.46
13:AN:87:THR:CG2	13:AN:91:ARG:HH12	2.24	0.46
1:AA:37:U:P	14:AO:123:LYS:HB3	2.53	0.46
14:AO:23:LYS:HA	14:AO:23:LYS:CE	2.21	0.46
14:AO:82:VAL:CG1	14:AO:83:VAL:H	2.22	0.46
16:AQ:40:CYS:O	16:AQ:41:ARG:C	2.54	0.46
17:AR:56:LEU:O	17:AR:59:MET:HB3	2.14	0.46
18:AS:51:VAL:HG22	18:AS:73:LEU:HD11	1.96	0.46
19:AT:15:MET:HE3	19:AT:15:MET:H	1.79	0.46
21:AV:18:LYS:HG2	21:AV:31:ILE:HG21	1.96	0.46
22:AW:23:ARG:NH2	22:AW:24:LEU:HD23	2.31	0.46
48:B1:22:GLU:OE1	48:B1:22:GLU:CA	2.63	0.46
48:B1:33:GLN:HA	48:B1:36:ILE:HG22	1.97	0.46
48:B1:45:ILE:HD12	48:B1:46:ARG:N	2.30	0.46
50:B3:54:GLY:O	50:B3:55:ARG:HB3	2.16	0.46
50:B3:7:PRO:HD3	50:B3:56:VAL:HG12	1.92	0.46
51:B4:51:TYR:CD1	51:B4:55:ARG:CD	2.96	0.46
52:B5:19:ARG:HD3	52:B5:19:ARG:N	2.13	0.46
53:B6:34:ARG:HH12	53:B6:42:LEU:HG	1.81	0.46
24:BA:1026:U:H2'	24:BA:1027:A:O5'	2.16	0.46
24:BA:1044:G:C4'	24:BA:1047:G:O2'	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1058:G:C2	24:BA:1059:G:C8	3.03	0.46
24:BA:1062:G:N2	33:BL:91:PRO:CG	2.73	0.46
24:BA:1021:A:O2'	24:BA:1123:C:H5''	2.16	0.46
24:BA:1228:G:N1	24:BA:1229:G:C5	2.84	0.46
24:BA:1360:A:H2'	24:BA:1361:G:O4'	2.15	0.46
24:BA:1378:A:C2	24:BA:1380:G:H1'	2.51	0.46
24:BA:1381:G:C6	24:BA:1382:G:C6	3.04	0.46
24:BA:1559:G:C2	24:BA:1560:G:O5'	2.69	0.46
24:BA:1650:G:C2	24:BA:1651:G:C1'	2.98	0.46
24:BA:1743:G:C5	24:BA:1746:G:C8	3.04	0.46
24:BA:1754:C:N3	24:BA:1755:A:C4	2.83	0.46
24:BA:151:C:N3	24:BA:175:G:N1	2.63	0.46
24:BA:1775:U:C1'	27:BD:208:LYS:HZ2	2.29	0.46
24:BA:1811:G:H2'	24:BA:1812:A:C8	2.50	0.46
24:BA:1816:G:O3'	24:BA:1817:G:C8	2.68	0.46
24:BA:1842:G:C4	24:BA:1843:C:C6	3.04	0.46
24:BA:2004:G:H2'	24:BA:2005:A:H8	1.80	0.46
24:BA:200:U:C3'	24:BA:201:C:H5'	2.46	0.46
24:BA:2010:G:P	43:BV:41:LYS:NZ	2.88	0.46
24:BA:2087:G:H5''	24:BA:2087:G:C8	2.50	0.46
24:BA:2199:A:OP2	24:BA:2205:C:C5	2.67	0.46
24:BA:2242:G:C6	24:BA:2243:U:C4	3.04	0.46
24:BA:224:G:N7	24:BA:420:C:H4'	2.30	0.46
24:BA:2250:G:O2'	24:BA:2496:C:C5'	2.63	0.46
24:BA:2253:G:C2'	24:BA:2254:C:O5'	2.64	0.46
24:BA:2254:C:C2'	24:BA:2255:G:C5'	2.78	0.46
24:BA:2289:G:H2'	24:BA:2289:G:N3	2.30	0.46
24:BA:2350:C:O2'	24:BA:2351:G:OP1	2.32	0.46
24:BA:236:C:C2	24:BA:237:C:C5	3.03	0.46
24:BA:2377:A:C4	24:BA:2378:A:N7	2.83	0.46
3:AB:53:G:H4'	24:BA:2470:G:H5''	1.94	0.46
24:BA:2696:U:O2'	24:BA:2697:G:C5'	2.63	0.46
24:BA:270(H):C:C2	24:BA:270(I):G:C8	3.03	0.46
24:BA:273:G:C4	24:BA:273(A):G:N7	2.83	0.46
24:BA:270(X):G:C4'	24:BA:273:G:H5'	2.44	0.46
24:BA:2781:A:H2'	24:BA:2782:G:C4'	2.46	0.46
24:BA:2781:A:H3'	24:BA:2781:A:H8	1.70	0.46
24:BA:278:A:O2'	24:BA:279:C:C1'	2.63	0.46
24:BA:2817:G:C4	24:BA:2818:G:C8	3.04	0.46
24:BA:2693:A:O2'	24:BA:2848:G:H5''	2.16	0.46
24:BA:2851:A:H2'	24:BA:2852:G:O5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2857:G:O5'	24:BA:2857:G:H8	1.97	0.46
24:BA:2898:U:C2	24:BA:2899:G:C8	3.04	0.46
24:BA:364:C:N3	24:BA:365:C:N4	2.62	0.46
24:BA:380:U:O2'	24:BA:381:G:H5'	2.16	0.46
24:BA:468:G:H2'	24:BA:469:G:C5'	2.45	0.46
24:BA:469:G:N1	53:B6:40:TRP:CZ2	2.83	0.46
24:BA:495:G:H2'	24:BA:496:G:O5'	2.15	0.46
24:BA:531:C:C4'	24:BA:532:A:N3	2.79	0.46
24:BA:531:C:C5'	24:BA:532:A:N3	2.77	0.46
24:BA:696:G:HO2'	24:BA:697:C:H5'	1.79	0.46
24:BA:776:G:HO2'	24:BA:777:A:P	2.36	0.46
24:BA:669:G:C6	24:BA:801:G:C6	3.03	0.46
24:BA:818:G:H21	24:BA:1189:A:H62	1.63	0.46
24:BA:663:G:C2'	24:BA:940:G:H4'	2.43	0.46
24:BA:981:A:O2'	24:BA:2036:C:O2'	2.23	0.46
24:BA:997:G:C2	24:BA:998:C:C4	3.03	0.46
24:BA:997:G:C2	24:BA:998:C:C5	3.03	0.46
25:BB:32:C:O2	25:BB:33:G:C8	2.69	0.46
25:BB:55:U:C2'	25:BB:56:G:C5'	2.93	0.46
27:BD:119:ALA:CB	27:BD:130:ALA:O	2.57	0.46
24:BA:1695:G:C1'	27:BD:15:PHE:HB3	2.45	0.46
27:BD:259:THR:HG22	27:BD:260:ARG:H	1.81	0.46
28:BE:176:ILE:HG22	28:BE:181:LEU:C	2.34	0.46
28:BE:50:GLY:O	28:BE:76:ARG:NE	2.39	0.46
29:BF:200:GLU:O	29:BF:203:GLN:N	2.48	0.46
29:BF:51:THR:O	29:BF:52:LYS:CG	2.63	0.46
30:BG:113:ARG:O	30:BG:114:ILE:CB	2.63	0.46
31:BH:45:VAL:HG13	31:BH:50:VAL:CG1	2.44	0.46
31:BH:89:ILE:CD1	31:BH:90:LYS:N	2.76	0.46
32:BK:33:ARG:HB3	32:BK:35:LEU:CD2	2.45	0.46
34:BM:31:ALA:O	34:BM:34:LEU:N	2.48	0.46
35:BN:68:GLU:HA	35:BN:104:ARG:HH12	1.73	0.46
36:BO:52:GLU:O	36:BO:55:ARG:CB	2.63	0.46
37:BP:63:LYS:O	37:BP:107:ALA:HA	2.15	0.46
37:BP:85:LYS:HZ2	47:BZ:10:THR:CB	2.29	0.46
37:BP:90:VAL:C	37:BP:91:GLU:OE2	2.54	0.46
38:BQ:17:ARG:HG3	38:BQ:18:LEU:HD22	1.95	0.46
39:BR:62:LYS:CB	39:BR:65:VAL:H	2.19	0.46
39:BR:73:LEU:CA	39:BR:76:LYS:HD2	2.44	0.46
40:BS:71:GLY:N	40:BS:74:ARG:HH12	2.12	0.46
24:BA:1216:G:OP1	41:BT:11:ARG:HD2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:61:TRP:CZ3	41:BT:93:LYS:HA	2.51	0.46
41:BT:61:TRP:O	41:BT:65:ILE:CG1	2.62	0.46
41:BT:67:ALA:O	41:BT:71:GLN:CD	2.54	0.46
43:BV:25:ARG:NH2	43:BV:74:ALA:O	2.48	0.46
43:BV:86:LEU:HB3	43:BV:87:PRO:CD	2.44	0.46
24:BA:748:G:P	43:BV:88:ARG:NE	2.88	0.46
45:BX:37:VAL:HG22	45:BX:37:VAL:O	2.15	0.46
46:BY:19:ARG:HH21	46:BY:84:GLU:HA	1.80	0.46
46:BY:27:VAL:HG22	46:BY:85:HIS:CE1	2.35	0.46
26:BC:103:ILE:HG22	26:BC:130:ILE:HG21	1.97	0.46
26:BC:74:VAL:CG2	26:BC:112:ALA:HB3	2.34	0.46
26:BC:61:THR:HG21	26:BC:160:ARG:CZ	2.45	0.46
26:BC:21:THR:HG22	26:BC:225:ASN:HB3	1.96	0.46
26:BC:68:LEU:CG	26:BC:69:GLY:N	2.78	0.46
26:BC:75:LEU:CD2	26:BC:77:ILE:HD11	2.32	0.46
1:AA:342:C:O2'	1:AA:343:U:H5'	2.16	0.46
1:AA:1381:U:H2'	1:AA:1381:U:O2	2.14	0.46
15:AP:121:LYS:O	15:AP:122:LYS:CB	2.63	0.46
8:AI:54:LYS:N	8:AI:54:LYS:HD2	2.31	0.46
22:AW:96:GLY:O	22:AW:97:ALA:HB3	2.15	0.46
1:AA:998:G:C6	1:AA:1044:A:C6	3.03	0.46
1:AA:1055:A:H2'	1:AA:1056:U:O5'	2.16	0.46
1:AA:1079:G:N2	1:AA:1080:A:N1	2.62	0.46
1:AA:1095:U:N3	1:AA:1096:C:C5	2.83	0.46
1:AA:1192:C:C5	1:AA:1193:G:N7	2.83	0.46
1:AA:1206:G:C2	1:AA:1207:G:C4	3.03	0.46
1:AA:1268:A:C2	1:AA:1327:C:H1'	2.50	0.46
1:AA:1269:A:H2'	1:AA:1270:C:O4'	2.15	0.46
1:AA:1224:G:C6	1:AA:1322:C:H4'	2.51	0.46
1:AA:133:U:C4'	1:AA:134:A:OP1	2.64	0.46
1:AA:949:A:O2'	1:AA:1364:U:N3	2.46	0.46
1:AA:1497:G:H2'	1:AA:1498:U:H6	1.80	0.46
1:AA:1532:U:O5'	1:AA:1532:U:H6	1.98	0.46
1:AA:185:A:C6	1:AA:186:C:N4	2.84	0.46
1:AA:20:U:H5'	1:AA:572:A:C6	2.49	0.46
1:AA:410:G:N3	1:AA:432:A:C6	2.83	0.46
1:AA:517:G:N7	1:AA:531:U:C2	2.83	0.46
1:AA:553:A:H2'	1:AA:554:C:C1'	2.46	0.46
1:AA:578:C:C2'	1:AA:728:A:N3	2.78	0.46
1:AA:625:G:H2'	1:AA:626:U:H6	1.80	0.46
1:AA:766:A:C2	1:AA:767:A:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:714:G:C1'	1:AA:777:A:N7	2.77	0.46
1:AA:791:G:C8	1:AA:792:A:C8	3.03	0.46
1:AA:802:A:H2'	1:AA:803:G:O4'	2.15	0.46
1:AA:87:A:C8	1:AA:88:C:N1	2.84	0.46
1:AA:88:C:O2'	1:AA:89:U:P	2.74	0.46
1:AA:902:G:C2'	1:AA:903:G:H5'	2.43	0.46
1:AA:9:G:C8	7:AH:126:ARG:NH1	2.84	0.46
3:AB:74:C:O3'	3:AB:74:C:OP1	2.33	0.46
3:AB:75:C:O2	24:BA:2507:C:O2'	2.24	0.46
3:AC:38:A:C8	3:AC:39:U:C5	3.03	0.46
4:AE:20:GLU:OE2	4:AE:189:ASP:OD2	2.33	0.46
4:AE:32:ILE:HD11	4:AE:40:HIS:CD2	2.39	0.46
5:AF:11:ARG:N	5:AF:11:ARG:HE	2.13	0.46
5:AF:48:TYR:C	5:AF:48:TYR:HD2	2.17	0.46
6:AG:110:PHE:HZ	6:AG:147:ALA:HB1	1.80	0.46
6:AG:175:SER:OG	6:AG:184:LYS:O	2.27	0.46
6:AG:60:GLU:OE1	6:AG:202:LEU:HD12	2.15	0.46
7:AH:32:VAL:C	7:AH:43:LEU:HG	2.35	0.46
7:AH:98:THR:HB	7:AH:117:ASP:HA	1.97	0.46
8:AI:3:ARG:O	8:AI:93:SER:OG	2.32	0.46
8:AI:56:PRO:HG2	8:AI:57:GLN:OE1	2.15	0.46
8:AI:4:TYR:CD1	8:AI:90:VAL:HG22	2.51	0.46
8:AI:4:TYR:HD1	8:AI:90:VAL:HG22	1.80	0.46
10:AK:111:ILE:CD1	10:AK:111:ILE:N	2.59	0.46
10:AK:20:TYR:CE2	10:AK:75:ARG:HD2	2.51	0.46
11:AL:101:PHE:O	11:AL:102:LEU:HD23	2.16	0.46
11:AL:114:TYR:O	11:AL:116:LYS:NZ	2.47	0.46
11:AL:49:PRO:HB2	11:AL:82:ALA:CA	2.46	0.46
12:AM:40:LEU:CB	12:AM:69:ASN:HB2	2.46	0.46
12:AM:74:ILE:HD11	12:AM:85:LEU:HD21	1.96	0.46
13:AN:32:ILE:O	13:AN:39:PRO:HB2	2.16	0.46
15:AP:13:LYS:HD3	15:AP:17:VAL:HG11	1.96	0.46
15:AP:7:VAL:CG1	30:BG:140:ILE:CG2	2.89	0.46
15:AP:3:ARG:CG	15:AP:7:VAL:HG12	2.44	0.46
15:AP:81:LEU:CD1	15:AP:88:ARG:HH22	2.21	0.46
16:AQ:24:CYS:SG	16:AQ:27:CYS:C	2.94	0.46
5:AF:29:TYR:CD1	16:AQ:36:PHE:CE1	3.03	0.46
16:AQ:45:ARG:HG3	16:AQ:46:GLU:N	2.31	0.46
18:AS:63:GLY:O	18:AS:64:ALA:C	2.52	0.46
18:AS:56:ALA:HB1	18:AS:74:LEU:CD1	2.45	0.46
20:AU:22:VAL:O	20:AU:24:ALA:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:62:ILE:HD11	21:AV:67:VAL:CB	2.44	0.46
23:AX:3:LYS:NZ	23:AX:13:ILE:HG21	2.31	0.46
48:B1:29:GLU:O	48:B1:33:GLN:OE1	2.33	0.46
49:B2:52:HIS:ND1	49:B2:53:LEU:HG	2.29	0.46
50:B3:25:TYR:N	50:B3:25:TYR:CD2	2.79	0.46
50:B3:38:LYS:HG2	50:B3:39:CYS:N	2.25	0.46
24:BA:2286:A:C1'	52:B5:37:ARG:HH21	2.27	0.46
54:B7:39:LYS:CB	54:B7:39:LYS:HZ3	2.26	0.46
55:B8:10:ILE:CD1	55:B8:14:CYS:SG	3.03	0.46
55:B8:2:LYS:HB3	55:B8:35:ARG:O	2.15	0.46
24:BA:1023:U:O4	24:BA:1024:G:H1'	2.14	0.46
24:BA:1060:U:OP2	33:BL:73:PRO:HG3	2.15	0.46
24:BA:117:G:C5	24:BA:119:A:N6	2.84	0.46
24:BA:1182:A:H2'	24:BA:1182:A:N3	2.30	0.46
24:BA:814:C:C2'	24:BA:1224:G:H22	2.29	0.46
24:BA:1227:A:C8	24:BA:1227:A:C3'	2.97	0.46
24:BA:1334:G:C2'	24:BA:1335:U:O5'	2.62	0.46
24:BA:1338:G:C2'	24:BA:1339:G:H5'	2.45	0.46
24:BA:1358:G:O2'	24:BA:1373:A:N6	2.40	0.46
24:BA:1343:G:O6	24:BA:1404:C:C4	2.68	0.46
24:BA:1422:G:C4	24:BA:1423:G:C8	3.03	0.46
24:BA:1529:A:H3'	24:BA:1530:G:C8	2.46	0.46
24:BA:1542:G:H1'	24:BA:1543:A:C5	2.43	0.46
24:BA:1661:G:C2	24:BA:2000:G:C4	3.04	0.46
24:BA:1665:A:C2	24:BA:1666:G:C4	3.03	0.46
24:BA:1666:G:H5''	24:BA:1667:G:OP2	2.15	0.46
24:BA:1796:U:H2'	24:BA:1797:C:H6	1.80	0.46
24:BA:1844:C:N3	24:BA:1845:G:N7	2.62	0.46
24:BA:1892:C:N3	24:BA:1893:C:C5	2.83	0.46
24:BA:1935:G:H4'	24:BA:1937:A:C2	2.51	0.46
24:BA:1936:A:O4'	24:BA:1940:U:O4	2.32	0.46
24:BA:1964:G:C5	24:BA:1967:C:H5	2.34	0.46
24:BA:196:A:N3	24:BA:2068:U:H5	2.12	0.46
24:BA:2072:G:C5	24:BA:2073:C:C5	3.04	0.46
24:BA:2304:G:P	30:BG:132:ASN:HD21	2.38	0.46
24:BA:2366:A:H3'	24:BA:2367:G:H8	1.80	0.46
24:BA:2425:A:OP1	24:BA:2427:C:O4'	2.34	0.46
24:BA:2459:A:H3'	24:BA:2460:U:C6	2.50	0.46
24:BA:2554:U:C5	24:BA:2556:C:C4	3.03	0.46
24:BA:2552:U:H3'	24:BA:2554:U:OP2	2.16	0.46
24:BA:2558:C:H2'	24:BA:2559:C:O5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2606:C:N3	24:BA:2607:G:N7	2.63	0.46
24:BA:2710:C:H2'	24:BA:2711:A:H5''	1.98	0.46
24:BA:2858:C:H5''	24:BA:2859:G:N7	2.30	0.46
24:BA:2813:A:N1	24:BA:2888:C:N3	2.63	0.46
24:BA:28:A:C2	24:BA:29:U:H4'	2.50	0.46
24:BA:297:C:C3'	24:BA:298:G:C8	2.98	0.46
24:BA:360:G:HO2'	24:BA:361:G:H5'	1.78	0.46
24:BA:403:U:C4'	24:BA:404:C:OP1	2.62	0.46
24:BA:442:G:O4'	29:BF:46:ARG:HD2	2.16	0.46
24:BA:464:U:C4	24:BA:465:G:O6	2.68	0.46
24:BA:570:G:H2'	24:BA:2030:A:C6	2.50	0.46
24:BA:588:U:H2'	24:BA:589:C:H6	1.81	0.46
24:BA:592:G:O2'	54:B7:2:PRO:CA	2.49	0.46
24:BA:609:A:H61	24:BA:619:G:H21	1.63	0.46
24:BA:620:G:C5'	24:BA:621:A:OP1	2.59	0.46
24:BA:624:C:H6	24:BA:624:C:C5'	2.29	0.46
24:BA:662:G:H5''	36:BO:19:VAL:CG1	2.40	0.46
24:BA:700:G:H4'	24:BA:1633:G:H4'	1.95	0.46
24:BA:739:G:O3'	24:BA:1784:A:C2	2.68	0.46
24:BA:775:G:C1'	24:BA:777:A:C2	2.98	0.46
24:BA:790:C:H6	24:BA:790:C:H3'	1.79	0.46
24:BA:815:C:O2'	24:BA:816:C:C5'	2.62	0.46
25:BB:6:C:O2'	25:BB:7:G:O5'	2.26	0.46
27:BD:120:GLY:H	27:BD:131:LEU:CD1	2.29	0.46
27:BD:174:ILE:HD11	27:BD:184:LYS:HE3	1.93	0.46
27:BD:256:GLY:O	27:BD:257:LEU:CG	2.64	0.46
28:BE:113:PHE:HB3	28:BE:158:GLY:HA2	1.97	0.46
28:BE:108:SER:HG	28:BE:164:ARG:CA	2.29	0.46
28:BE:36:ARG:CB	28:BE:41:LYS:HB2	2.44	0.46
24:BA:2637:U:O5'	28:BE:81:ILE:HD11	2.15	0.46
28:BE:92:THR:O	28:BE:92:THR:CG2	2.63	0.46
29:BF:18:ARG:CG	29:BF:19:GLU:N	2.78	0.46
29:BF:35:GLU:HA	29:BF:38:ARG:CD	2.44	0.46
30:BG:118:ARG:HG2	30:BG:119:GLY:H	1.76	0.46
30:BG:13:GLU:O	30:BG:17:PRO:CD	2.63	0.46
30:BG:142:PRO:HG2	30:BG:143:GLU:HG2	1.98	0.46
30:BG:144:ILE:HG23	30:BG:145:THR:N	2.30	0.46
30:BG:49:ASP:H	30:BG:53:LEU:HD13	1.80	0.46
31:BH:97:ARG:CB	31:BH:104:GLU:HG3	2.38	0.46
32:BK:31:LEU:CD2	32:BK:36:ALA:HB3	2.45	0.46
33:BL:60:TYR:CG	33:BL:67:PHE:HE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1062:G:H21	33:BL:91:PRO:HG3	1.75	0.46
34:BM:109:LYS:CE	34:BM:111:PRO:HD2	2.46	0.46
34:BM:25:ARG:HH21	34:BM:26:LEU:HB2	1.80	0.46
35:BN:113:LYS:O	35:BN:113:LYS:NZ	2.48	0.46
35:BN:28:SER:O	35:BN:29:ASN:CB	2.64	0.46
35:BN:40:VAL:HG22	35:BN:41:ALA:N	2.30	0.46
35:BN:39:ILE:CB	35:BN:59:LYS:HZ1	2.27	0.46
24:BA:661:C:C5'	36:BO:15:ARG:HH11	2.26	0.46
36:BO:6:LEU:C	36:BO:7:ARG:CG	2.83	0.46
36:BO:74:GLU:HB2	36:BO:107:LYS:HZ3	1.81	0.46
36:BO:79:ARG:HE	36:BO:83:VAL:CG1	2.29	0.46
37:BP:11:LYS:HZ3	37:BP:73:PRO:CG	2.29	0.46
37:BP:16:ARG:O	37:BP:17:LEU:CD1	2.64	0.46
37:BP:87:LYS:O	37:BP:88:GLY:O	2.33	0.46
37:BP:90:VAL:CA	37:BP:91:GLU:OE2	2.64	0.46
38:BQ:103:ARG:HB2	38:BQ:108:GLY:HA2	1.97	0.46
38:BQ:87:TYR:O	38:BQ:89:ASP:OD1	2.33	0.46
39:BR:58:LEU:O	39:BR:65:VAL:CG1	2.60	0.46
40:BS:40:THR:O	40:BS:41:ARG:C	2.53	0.46
40:BS:33:LYS:HB3	40:BS:45:PHE:C	2.36	0.46
41:BT:52:ARG:O	41:BT:53:ARG:C	2.53	0.46
41:BT:55:ARG:C	41:BT:58:ARG:HB3	2.34	0.46
44:BW:65:ARG:HA	44:BW:70:LEU:CG	2.46	0.46
45:BX:22:GLY:HA3	45:BX:73:ARG:CZ	2.38	0.46
46:BY:102:LEU:HD13	46:BY:137:ILE:C	2.35	0.46
32:BK:79:ILE:O	32:BK:144:VAL:CA	2.54	0.46
26:BC:23:ASP:CG	26:BC:186:ALA:HB2	2.36	0.46
26:BC:59:ARG:HH11	26:BC:59:ARG:HB2	1.81	0.46
3:AD:40:C:H3'	3:AD:41:C:C5'	2.45	0.46
39:BR:59:LYS:CE	39:BR:59:LYS:H	2.28	0.46
34:BM:6:PRO:CB	34:BM:41:ASP:HB3	2.45	0.46
24:BA:54:G:N2	24:BA:55:G:H1'	2.31	0.46
24:BA:436:C:O2	24:BA:436:C:H2'	2.15	0.46
2:A1:30:U:C4	2:A1:31:U:C4	3.04	0.46
1:AA:1084:G:O2'	1:AA:1085:U:OP1	2.32	0.46
1:AA:1188:A:H3'	1:AA:1189:C:H5	1.80	0.46
1:AA:1188:A:C2	1:AA:1189:C:C2	3.03	0.46
1:AA:1189:C:OP2	1:AA:1189:C:C6	2.68	0.46
1:AA:1308:U:C6	15:AP:99:ARG:NH1	2.77	0.46
1:AA:1313:U:O4	21:AV:4:SER:OG	2.23	0.46
1:AA:1443:G:C5'	1:AA:1446:A:H5'	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1533:C:H2'	1:AA:1534:A:H8	1.80	0.46
1:AA:209:U:H5''	1:AA:210:U:OP1	2.15	0.46
1:AA:295:C:C2	1:AA:296:U:C6	3.03	0.46
1:AA:332:G:O2'	1:AA:333:G:C5'	2.63	0.46
1:AA:517:G:C4	1:AA:531:U:O4'	2.68	0.46
1:AA:594:G:C5	1:AA:595:G:N2	2.80	0.46
1:AA:623:C:H2'	1:AA:624:C:H6	1.79	0.46
1:AA:629:G:N3	1:AA:630:G:C8	2.84	0.46
1:AA:696:A:C2'	1:AA:697:U:H5'	2.44	0.46
1:AA:711:G:C2'	1:AA:712:A:O5'	2.63	0.46
1:AA:728:A:C6	1:AA:729:A:C5	3.03	0.46
1:AA:89:U:O5'	1:AA:89:U:H6	1.99	0.46
1:AA:885:G:C2	1:AA:913:A:C2	3.03	0.46
1:AA:947:G:C4	1:AA:948:C:C6	3.04	0.46
1:AA:965:A:O2'	1:AA:966:G:P	2.74	0.46
1:AA:968:A:OP1	1:AA:968:A:O4'	2.33	0.46
3:AC:19:G:H1'	3:AC:57:G:H21	1.80	0.46
3:AC:70:G:N3	3:AC:71:G:C8	2.84	0.46
4:AE:57:PHE:CD1	4:AE:199:TYR:HE1	2.32	0.46
4:AE:19:HIS:C	4:AE:20:GLU:HG2	2.36	0.46
4:AE:23:ARG:HB2	4:AE:23:ARG:CZ	2.45	0.46
4:AE:82:ARG:HB3	4:AE:83:MET:HE2	1.96	0.46
5:AF:134:ILE:CD1	5:AF:134:ILE:N	2.79	0.46
5:AF:132:ARG:O	5:AF:135:LYS:HB2	2.16	0.46
5:AF:31:HIS:HA	5:AF:34:LEU:HB3	1.97	0.46
5:AF:96:GLY:O	5:AF:97:LYS:C	2.53	0.46
6:AG:88:VAL:HG12	6:AG:91:SER:H	1.80	0.46
7:AH:121:LYS:HB3	7:AH:121:LYS:HE3	1.74	0.46
7:AH:151:LEU:HD11	10:AK:67:PRO:HG2	1.98	0.46
7:AH:36:ASP:OD1	7:AH:38:GLN:HB2	2.16	0.46
7:AH:61:TYR:CA	7:AH:64:ARG:HG2	2.46	0.46
7:AH:41:VAL:O	7:AH:67:VAL:O	2.33	0.46
7:AH:78:HIS:ND1	10:AK:107:LEU:CD1	2.64	0.46
8:AI:95:GLU:CD	8:AI:95:GLU:N	2.69	0.46
8:AI:96:PRO:O	8:AI:97:PHE:CB	2.60	0.46
9:AJ:29:LYS:HD2	9:AJ:102:ARG:HA	1.98	0.46
9:AJ:3:ARG:C	9:AJ:4:ARG:HG2	2.36	0.46
9:AJ:94:ARG:NH1	9:AJ:98:SER:OG	2.49	0.46
10:AK:104:ARG:CD	10:AK:107:LEU:HD11	2.46	0.46
10:AK:10:LEU:O	10:AK:83:ILE:HD13	2.14	0.46
11:AL:16:ARG:CG	11:AL:18:PHE:CE1	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:9:ARG:NH1	12:AM:9:ARG:HB3	2.30	0.46
16:AQ:35:ARG:O	16:AQ:38:GLY:N	2.48	0.46
16:AQ:34:TYR:CZ	16:AQ:44:LEU:HD22	2.51	0.46
17:AR:18:PHE:O	17:AR:20:GLY:N	2.48	0.46
1:AA:667:G:H5'	17:AR:51:HIS:CD2	2.51	0.46
18:AS:4:ILE:HA	18:AS:20:VAL:O	2.16	0.46
18:AS:71:ARG:CZ	18:AS:71:ARG:HB2	2.46	0.46
19:AT:29:HIS:ND1	19:AT:32:TYR:N	2.63	0.46
19:AT:28:PRO:CB	19:AT:33:GLY:O	2.59	0.46
20:AU:25:THR:HG22	20:AU:42:ARG:NH2	2.31	0.46
20:AU:23:LYS:HD2	20:AU:57:GLY:O	2.15	0.46
20:AU:80:PRO:O	20:AU:81:PHE:CD1	2.69	0.46
21:AV:37:ARG:HD3	21:AV:37:ARG:HA	1.43	0.46
21:AV:51:VAL:HB	21:AV:75:ALA:HB2	1.97	0.46
24:BA:380:U:H4'	50:B3:16:CYS:HB3	1.97	0.46
24:BA:1364:G:OP1	50:B3:2:LYS:O	2.34	0.46
50:B3:57:GLU:N	50:B3:61:ARG:CZ	2.78	0.46
52:B5:19:ARG:CG	52:B5:19:ARG:NH1	2.58	0.46
54:B7:8:LYS:NZ	54:B7:11:LYS:HZ2	2.12	0.46
55:B8:10:ILE:HD12	55:B8:14:CYS:HB3	1.97	0.46
24:BA:2527:C:OP1	55:B8:30:PRO:HB3	2.16	0.46
24:BA:1036:G:H5'	31:BH:59:ARG:NH2	2.31	0.46
24:BA:1068:G:N1	24:BA:1073:A:C2	2.84	0.46
24:BA:1081:U:H5''	33:BL:122:ALA:CA	2.36	0.46
24:BA:1094:U:O2	24:BA:1097:U:H5	1.99	0.46
24:BA:1056:G:C2	24:BA:1102:C:C5	3.03	0.46
24:BA:1213:A:C2	24:BA:1237:A:H1'	2.50	0.46
24:BA:1238:G:N2	24:BA:1239:G:C4	2.83	0.46
24:BA:1241:A:C4	24:BA:1241:A:C3'	2.98	0.46
24:BA:1373:A:N7	24:BA:1374:G:C5	2.84	0.46
24:BA:1469:A:C8	24:BA:1469:A:H3'	2.50	0.46
24:BA:1515:C:C6	24:BA:1515:C:P	3.08	0.46
24:BA:1518:C:N3	24:BA:1519:G:H1'	2.30	0.46
24:BA:1641:A:N7	24:BA:1642:G:C5	2.84	0.46
24:BA:1707:G:N3	24:BA:1708:C:C6	2.84	0.46
24:BA:1727:U:H2'	24:BA:1728:G:OP1	2.15	0.46
24:BA:1731:G:N3	24:BA:1732:A:OP2	2.49	0.46
24:BA:1741:C:O3'	24:BA:1742:C:O4'	2.33	0.46
24:BA:47:C:C2	24:BA:179:G:C2	3.03	0.46
24:BA:179:G:C4	24:BA:180:G:C8	3.03	0.46
24:BA:1882:C:C2	24:BA:1883:G:H1'	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1890:A:C3'	24:BA:1891:G:H8	2.25	0.46
24:BA:215:G:C1'	24:BA:216:A:H4'	2.46	0.46
24:BA:215:G:C4'	24:BA:216:A:O5'	2.40	0.46
24:BA:215:G:O2'	24:BA:216:A:OP2	2.30	0.46
24:BA:221:A:N3	24:BA:233:A:H1'	2.30	0.46
24:BA:2249:U:C2'	24:BA:2250:G:OP1	2.63	0.46
24:BA:966:G:C2'	24:BA:2267:A:N6	2.78	0.46
24:BA:2268:A:H3'	24:BA:2269:A:C5'	2.46	0.46
24:BA:2259:G:H4'	24:BA:2427:C:H2'	1.97	0.46
24:BA:2464:C:N3	24:BA:2465:C:C5	2.84	0.46
24:BA:2503:A:O2'	24:BA:2504:U:P	2.73	0.46
24:BA:2559:C:H2'	24:BA:2560:C:H6	1.79	0.46
24:BA:2553:G:C8	24:BA:2583:G:H4'	2.45	0.46
24:BA:2645:G:O4'	24:BA:2645:G:OP2	2.33	0.46
24:BA:2734:A:N6	24:BA:2735:G:N2	2.64	0.46
24:BA:2745:C:N3	24:BA:2746:U:C5	2.83	0.46
24:BA:2768:C:C2'	24:BA:2769:C:H5'	2.45	0.46
24:BA:371:A:H5''	24:BA:423:A:C5	2.46	0.46
24:BA:375:C:O2	24:BA:375:C:C2'	2.62	0.46
24:BA:378:C:H2'	24:BA:379:G:H8	1.81	0.46
24:BA:387:U:H2'	24:BA:387:U:O2	2.14	0.46
24:BA:457:A:C2	24:BA:470:A:C5'	2.99	0.46
24:BA:496:G:O6	24:BA:497:A:C6	2.69	0.46
24:BA:563:G:N2	24:BA:578:A:C2	2.69	0.46
24:BA:598:G:O2'	36:BO:14:LYS:HE3	2.15	0.46
24:BA:746:A:HO2'	24:BA:747:U:P	2.21	0.46
24:BA:783:A:C2'	24:BA:784:A:C5'	2.92	0.46
24:BA:819:A:N3	24:BA:943:U:O2	2.49	0.46
24:BA:831:G:H5'	36:BO:35:HIS:HB3	1.97	0.46
24:BA:923:C:O4'	47:BZ:26:TYR:CB	2.62	0.46
24:BA:974:G:C8	24:BA:974(A):C:O4'	2.69	0.46
25:BB:82:G:C4	25:BB:83:G:N7	2.84	0.46
27:BD:108:PRO:O	27:BD:109:ASP:C	2.54	0.46
27:BD:177:LEU:HD23	27:BD:177:LEU:N	2.22	0.46
27:BD:183:ARG:NH2	27:BD:268:ARG:HH11	2.13	0.46
27:BD:109:ASP:N	27:BD:196:VAL:O	2.49	0.46
24:BA:764:A:N3	27:BD:214:TRP:HD1	2.12	0.46
28:BE:199:ARG:O	28:BE:200:GLU:OE1	2.33	0.46
28:BE:34:VAL:CG1	28:BE:36:ARG:NH2	2.79	0.46
28:BE:38:THR:C	28:BE:40:GLU:N	2.68	0.46
28:BE:45:THR:HG1	28:BE:80:GLU:C	2.08	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:50:GLY:CA	28:BE:76:ARG:NE	2.79	0.46
29:BF:157:VAL:O	29:BF:158:THR:CB	2.63	0.46
29:BF:169:ASN:HD22	29:BF:173:VAL:HG12	1.80	0.46
30:BG:116:ASP:CB	30:BG:118:ARG:NH2	2.76	0.46
30:BG:167:GLU:OE1	30:BG:167:GLU:N	2.44	0.46
30:BG:56:ALA:HA	30:BG:59:GLU:CD	2.33	0.46
31:BH:103:LEU:H	31:BH:115:VAL:H	1.62	0.46
31:BH:97:ARG:CB	31:BH:97:ARG:NH2	2.79	0.46
33:BL:23:VAL:O	33:BL:34:ILE:HG12	2.15	0.46
33:BL:9:LYS:HG2	33:BL:56:GLU:CD	2.36	0.46
34:BM:103:VAL:HG23	34:BM:117:PHE:HE2	1.80	0.46
34:BM:115:ARG:HA	34:BM:118:LYS:HE3	1.96	0.46
34:BM:12:ARG:HD3	34:BM:50:ASP:OD1	2.15	0.46
35:BN:107:ARG:O	35:BN:108:GLU:C	2.54	0.46
35:BN:109:LYS:O	35:BN:110:GLY:C	2.54	0.46
35:BN:80:ASP:OD2	35:BN:82:ASN:ND2	2.48	0.46
24:BA:637:A:OP2	36:BO:131:SER:HB3	2.16	0.46
36:BO:131:SER:O	36:BO:135:LEU:CD1	2.64	0.46
36:BO:122:PRO:CA	36:BO:134:ALA:HA	2.45	0.46
36:BO:138:LEU:HD22	36:BO:138:LEU:C	2.35	0.46
36:BO:27:HIS:HB3	36:BO:28:GLY:H	1.63	0.46
37:BP:56:ARG:NH1	37:BP:57:HIS:HA	2.30	0.46
24:BA:872:A:O2'	37:BP:66:ILE:CB	2.64	0.46
37:BP:34:LEU:CD1	37:BP:67:ARG:NH2	2.72	0.46
24:BA:2494:G:O2'	37:BP:81:VAL:O	2.24	0.46
37:BP:97:VAL:CA	37:BP:98:LYS:HE2	2.45	0.46
38:BQ:27:SER:O	38:BQ:30:THR:HB	2.15	0.46
38:BQ:52:ILE:HD13	38:BQ:52:ILE:C	2.35	0.46
38:BQ:55:ALA:HB1	38:BQ:79:LEU:HD21	1.94	0.46
39:BR:35:ILE:HG13	39:BR:36:TYR:N	2.31	0.46
40:BS:38:ASN:O	40:BS:39:ARG:O	2.33	0.46
41:BT:31:SER:OG	41:BT:35:ALA:CA	2.64	0.46
41:BT:66:ASN:HA	41:BT:76:TYR:CE1	2.51	0.46
43:BV:18:ARG:HH21	43:BV:18:ARG:CG	2.28	0.46
24:BA:518:G:C4'	43:BV:18:ARG:NH1	2.76	0.46
45:BX:2:ARG:HE	45:BX:4:LYS:H	1.64	0.46
46:BY:10:ARG:NH2	46:BY:35:ARG:HG3	2.30	0.46
46:BY:150:LEU:C	46:BY:151:HIS:CG	2.89	0.46
47:BZ:74:ARG:HD2	47:BZ:75:LEU:HD12	1.97	0.46
26:BC:160:ARG:O	26:BC:161:ILE:HG13	2.14	0.46
26:BC:190:ARG:O	26:BC:193:ILE:HB	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:63:G:H5'	26:BC:53:ARG:CZ	2.46	0.46
26:BC:6:ARG:C	26:BC:8:ARG:H	2.17	0.46
24:BA:1042:G:N2	24:BA:1114:G:C4	2.78	0.46
24:BA:182:A:C2	24:BA:183:C:N3	2.83	0.46
24:BA:1767:C:C4	24:BA:1768:U:C4	3.04	0.46
1:AA:614:A:H2'	1:AA:615:C:C6	2.50	0.46
2:A1:13:U:H3'	2:A1:14:U:C6	2.51	0.46
1:AA:1055:A:HO2'	1:AA:1056:U:P	2.37	0.46
1:AA:120:A:C8	1:AA:122:G:C5	3.04	0.46
1:AA:1289:A:C2	1:AA:1372:U:H4'	2.51	0.46
1:AA:1363:A:H5''	1:AA:1364:U:C6	2.51	0.46
1:AA:1405:G:N3	1:AA:1406:U:C5	2.84	0.46
1:AA:1464:G:HO2'	1:AA:1465:C:H6	1.63	0.46
1:AA:1517:G:C2	1:AA:1518:A:C4	3.03	0.46
1:AA:186(B):C:C2	1:AA:186(C):G:C8	3.03	0.46
1:AA:227:G:C6	1:AA:228:A:C6	3.03	0.46
1:AA:323:U:O2	1:AA:329:A:N6	2.49	0.46
1:AA:452:A:C6	1:AA:453:A:C6	3.03	0.46
1:AA:495:A:H4'	1:AA:496:A:OP1	2.15	0.46
1:AA:518:C:C5	1:AA:530:G:N7	2.83	0.46
1:AA:625:G:H2'	1:AA:626:U:C6	2.50	0.46
1:AA:644:G:C5	1:AA:645:C:C5	3.04	0.46
1:AA:745:C:N4	1:AA:746:A:H62	2.13	0.46
1:AA:811:C:C6	1:AA:811:C:C3'	2.98	0.46
1:AA:854:G:H3'	1:AA:871:U:C4	2.48	0.46
1:AA:867:G:N3	1:AA:868:C:C5	2.83	0.46
1:AA:880:C:P	14:AO:9:GLN:HE21	2.38	0.46
1:AA:938:A:C6	1:AA:939:G:C5	3.03	0.46
1:AA:958:A:H2'	1:AA:959:A:O4'	2.16	0.46
3:AB:9:A:N3	3:AB:46:G:C2	2.84	0.46
3:AB:9:A:O2'	3:AB:45:U:O2'	2.25	0.46
3:AC:47:U:O4	3:AC:49:C:C4'	2.60	0.46
3:AC:66:U:C3'	3:AC:67:C:C6	2.96	0.46
4:AE:73:THR:HG22	4:AE:94:ASN:C	2.35	0.46
5:AF:59:ARG:NE	5:AF:64:VAL:CA	2.64	0.46
6:AG:130:GLY:HA3	6:AG:131:ARG:NH1	2.31	0.46
6:AG:145:GLU:N	6:AG:184:LYS:HE2	2.30	0.46
6:AG:195:ALA:O	6:AG:196:LEU:O	2.33	0.46
8:AI:12:PRO:O	8:AI:14:LEU:N	2.48	0.46
8:AI:14:LEU:HD22	8:AI:18:GLN:CD	2.35	0.46
8:AI:19:LEU:HD11	8:AI:23:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:65:VAL:O	8:AI:67:MET:CE	2.63	0.46
8:AI:11:ASN:HB2	8:AI:84:ASN:HB3	1.97	0.46
9:AJ:111:ARG:HD3	9:AJ:122:HIS:CB	2.46	0.46
9:AJ:122:HIS:N	9:AJ:125:MET:HE3	2.30	0.46
1:AA:933:G:OP2	9:AJ:3:ARG:HG2	2.15	0.46
10:AK:109:ILE:O	10:AK:109:ILE:HG13	2.14	0.46
10:AK:127:LEU:HD13	10:AK:127:LEU:C	2.35	0.46
10:AK:15:ASN:HD22	10:AK:15:ASN:N	2.13	0.46
10:AK:35:ILE:C	10:AK:37:ARG:N	2.68	0.46
10:AK:37:ARG:CD	10:AK:41:ARG:HG3	2.19	0.46
10:AK:6:ILE:CD1	10:AK:85:ARG:CZ	2.93	0.46
10:AK:70:GLN:HE21	10:AK:71:GLY:H	1.47	0.46
11:AL:50:LEU:HD21	11:AL:55:ALA:O	2.15	0.46
1:AA:1058:G:N2	12:AM:53:PRO:HG3	2.31	0.46
9:AJ:153:HIS:CE1	13:AN:58:PRO:HD2	2.42	0.46
14:AO:34:ARG:HD3	14:AO:105:TYR:CZ	2.51	0.46
14:AO:92:ASP:CA	14:AO:93:LEU:HD23	2.45	0.46
15:AP:73:GLU:O	15:AP:75:ALA:N	2.49	0.46
5:AF:40:ARG:NE	16:AQ:52:GLN:NE2	2.64	0.46
18:AS:26:ARG:CD	18:AS:31:LYS:HZ3	2.28	0.46
18:AS:53:VAL:HA	18:AS:79:VAL:CG2	2.45	0.46
18:AS:74:LEU:CD2	18:AS:79:VAL:HG21	2.43	0.46
1:AA:237:C:C5'	19:AT:25:ARG:CZ	2.86	0.46
19:AT:27:PHE:C	19:AT:27:PHE:CD2	2.87	0.46
19:AT:88:TYR:CD2	19:AT:92:ARG:HD2	2.51	0.46
21:AV:24:ALA:O	21:AV:26:GLY:N	2.49	0.46
21:AV:58:VAL:HG23	21:AV:60:VAL:CG2	2.44	0.46
22:AW:50:GLU:CB	22:AW:99:LEU:HD12	2.46	0.46
51:B4:37:LYS:HB2	51:B4:38:ALA:H	1.41	0.46
51:B4:8:LYS:C	51:B4:9:LYS:HG3	2.36	0.46
24:BA:2287:A:C2	52:B5:37:ARG:NH2	2.84	0.46
52:B5:51:GLU:CD	52:B5:52:VAL:N	2.68	0.46
54:B7:31:HIS:O	54:B7:32:LEU:HG	2.16	0.46
24:BA:1119:C:H2'	24:BA:1119:C:O2	2.13	0.46
24:BA:1213:A:OP2	24:BA:1235:G:N2	2.48	0.46
24:BA:1313:U:O2	24:BA:1314:C:C5	2.69	0.46
24:BA:1405:U:C2	24:BA:1406:U:C5	3.04	0.46
24:BA:1420:U:O2'	24:BA:1421:G:P	2.73	0.46
24:BA:1444(A):A:H5'	24:BA:1445:C:C6	2.51	0.46
24:BA:1449:A:H4'	24:BA:1542:G:H21	1.80	0.46
24:BA:1464:C:O2'	24:BA:1465:G:C5'	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1570:A:C6	24:BA:1571:A:N7	2.83	0.46
24:BA:1655:A:H4'	28:BE:114:ALA:HA	1.96	0.46
24:BA:1712:C:H3'	24:BA:1716:U:C5	2.50	0.46
24:BA:1680:U:O2	24:BA:1764:G:O5'	2.33	0.46
24:BA:1785:A:C8	24:BA:1785:A:OP2	2.63	0.46
24:BA:1363:C:O2'	24:BA:1809:A:N7	2.38	0.46
24:BA:1889:A:C2	24:BA:1890:A:C5	3.03	0.46
24:BA:1891:G:H3'	24:BA:1892:C:H6	1.79	0.46
24:BA:1992:G:N2	24:BA:1995:U:C5	2.83	0.46
24:BA:218:A:H2'	24:BA:219:G:O4'	2.16	0.46
24:BA:2230:G:C2	24:BA:2231:C:C2	3.03	0.46
24:BA:962:G:H21	24:BA:2250:G:N2	2.12	0.46
24:BA:2343:C:H4'	24:BA:2373:G:O3'	2.15	0.46
24:BA:2349:G:C3'	24:BA:2350:C:C5'	2.90	0.46
24:BA:243:U:OP2	54:B7:7:HIS:NE2	2.48	0.46
24:BA:2462:U:O4	24:BA:2463:C:N4	2.49	0.46
24:BA:2478:A:C5	24:BA:2479:G:C8	3.04	0.46
24:BA:2459:A:C2	24:BA:2492:U:C4	3.02	0.46
24:BA:2521:C:C2	24:BA:2545:G:N2	2.84	0.46
24:BA:2553:G:H2'	24:BA:2553:G:N3	2.31	0.46
24:BA:2588:G:O6	24:BA:2589:A:C6	2.68	0.46
24:BA:2689:U:O2	24:BA:2713:A:N7	2.49	0.46
24:BA:2690:C:O2'	24:BA:2691:C:C5'	2.63	0.46
24:BA:2703:C:C5	24:BA:2704:C:N4	2.84	0.46
24:BA:2748:A:N1	24:BA:2756:U:O2	2.49	0.46
24:BA:2834:G:C3'	24:BA:2834:G:C8	2.99	0.46
24:BA:284:U:P	24:BA:284:U:H3'	2.56	0.46
24:BA:2884:U:O2'	24:BA:2885:C:H5'	2.15	0.46
24:BA:2893:G:P	24:BA:2893:G:O4'	2.73	0.46
24:BA:295:G:H1'	24:BA:345:A:C2	2.50	0.46
24:BA:307:G:H2'	24:BA:309:G:H8	1.79	0.46
24:BA:341:G:C2'	24:BA:342:G:O4'	2.63	0.46
24:BA:465:G:C6	24:BA:466:A:C6	3.04	0.46
24:BA:467:G:P	53:B6:33:ARG:NH1	2.88	0.46
24:BA:470:A:O2'	24:BA:471:A:P	2.73	0.46
24:BA:479:A:N3	24:BA:480:A:C5	2.84	0.46
24:BA:578:A:C3'	24:BA:579:G:H5''	2.46	0.46
24:BA:580:C:N4	24:BA:581:C:N4	2.63	0.46
24:BA:612:G:H2'	24:BA:615:G:C4	2.51	0.46
24:BA:653:A:C3'	24:BA:654:A:H4'	2.45	0.46
24:BA:209:C:C5'	24:BA:681:G:H4'	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:757:U:C2'	24:BA:758:C:O5'	2.64	0.46
24:BA:774:A:HO2'	24:BA:775:G:H8	1.53	0.46
24:BA:773:U:O2'	24:BA:774:A:OP1	2.30	0.46
24:BA:799:G:H8	24:BA:799:G:OP2	1.97	0.46
24:BA:800:A:C5	24:BA:802:A:O4'	2.69	0.46
24:BA:823:G:H3'	24:BA:824:A:C8	2.43	0.46
24:BA:833:U:H2'	24:BA:834:C:H6	1.80	0.46
24:BA:87:C:H5''	24:BA:88:G:O5'	2.15	0.46
24:BA:889:C:H2'	24:BA:890:A:C1'	2.45	0.46
24:BA:933:A:N3	24:BA:934:G:C8	2.84	0.46
24:BA:945:A:H2'	24:BA:946:G:H5''	1.98	0.46
24:BA:95:G:OP1	48:B1:39:LEU:HD13	2.14	0.46
24:BA:974:G:C3'	24:BA:974(A):C:C5'	2.85	0.46
25:BB:104:A:C3'	25:BB:105:G:O4'	2.63	0.46
25:BB:42:C:C4	30:BG:93:THR:HB	2.50	0.46
25:BB:46:A:O2'	25:BB:47:C:H5'	2.16	0.46
25:BB:48:A:OP1	39:BR:92:TYR:CB	2.63	0.46
25:BB:56:G:O2'	25:BB:57:A:H5'	2.15	0.46
25:BB:83:G:H21	25:BB:84:C:C1'	2.29	0.46
25:BB:99:A:H2'	25:BB:100:G:O5'	2.16	0.46
25:BB:99:A:HO2'	25:BB:100:G:H5'	1.79	0.46
25:BB:8:U:O2'	25:BB:9:G:O4'	2.27	0.46
27:BD:247:ALA:O	27:BD:250:TRP:HB2	2.16	0.46
27:BD:7:LYS:HB2	27:BD:27:THR:HA	1.97	0.46
24:BA:1813:G:O3'	27:BD:46:GLN:HG2	2.16	0.46
27:BD:84:TYR:HA	27:BD:92:ILE:HG23	1.96	0.46
28:BE:108:SER:O	28:BE:109:LYS:C	2.53	0.46
28:BE:32:PRO:HG3	28:BE:88:GLY:HA2	1.97	0.46
28:BE:51:PHE:HE1	28:BE:75:VAL:H	1.64	0.46
28:BE:54:GLN:OE1	28:BE:56:PRO:HD2	2.15	0.46
29:BF:135:LYS:HE3	29:BF:136:THR:OG1	2.16	0.46
29:BF:57:VAL:O	29:BF:60:SER:OG	2.29	0.46
30:BG:124:SER:OG	30:BG:132:ASN:O	2.32	0.46
30:BG:107:LEU:HG	30:BG:177:GLY:O	2.16	0.46
30:BG:47:LYS:CB	30:BG:53:LEU:HD11	2.35	0.46
30:BG:57:ALA:CA	30:BG:68:PRO:CD	2.83	0.46
31:BH:132:ARG:H	31:BH:132:ARG:HD3	1.78	0.46
31:BH:42:ARG:O	31:BH:43:VAL:HG23	2.16	0.46
31:BH:9:ILE:CD1	31:BH:69:ARG:HH22	2.28	0.46
31:BH:93:GLY:O	31:BH:107:VAL:CG2	2.63	0.46
33:BL:111:LYS:C	33:BL:113:PRO:CD	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:127:ASP:O	34:BM:130:HIS:HB2	2.14	0.46
34:BM:17:ASP:O	34:BM:18:ALA:CB	2.64	0.46
34:BM:58:ASP:OD1	34:BM:59:LYS:HE3	2.15	0.46
34:BM:67:LEU:CA	34:BM:70:LYS:HZ1	2.29	0.46
35:BN:106:LEU:CG	35:BN:107:ARG:N	2.78	0.46
36:BO:54:GLY:O	54:B7:12:LYS:CE	2.64	0.46
36:BO:85:LEU:O	36:BO:86:LYS:HE2	2.16	0.46
37:BP:133:ARG:C	37:BP:133:ARG:HD2	2.36	0.46
37:BP:49:ALA:O	37:BP:52:VAL:HB	2.16	0.46
37:BP:59:ARG:C	37:BP:60:ARG:CD	2.84	0.46
38:BQ:72:ASP:OD2	38:BQ:74:LYS:NZ	2.38	0.46
39:BR:49:VAL:HG22	39:BR:50:SER:N	2.31	0.46
39:BR:70:GLY:CA	39:BR:73:LEU:HD22	2.42	0.46
40:BS:28:VAL:HG23	40:BS:94:ALA:N	2.30	0.46
42:BU:93:GLU:O	42:BU:95:LEU:HD23	2.16	0.46
43:BV:16:LYS:O	43:BV:19:LEU:HB2	2.15	0.46
43:BV:28:SER:N	43:BV:31:GLU:OE2	2.30	0.46
43:BV:34:ASN:HA	43:BV:37:ARG:CG	2.45	0.46
43:BV:25:ARG:O	43:BV:71:VAL:CG1	2.64	0.46
43:BV:94:ASP:N	43:BV:94:ASP:OD2	2.49	0.46
44:BW:29:TRP:CH2	44:BW:78:LYS:HE3	2.50	0.46
44:BW:89:ILE:O	44:BW:93:GLU:HG2	2.15	0.46
45:BX:21:LYS:HD2	45:BX:23:ARG:NH2	2.30	0.46
45:BX:27:VAL:O	45:BX:35:TYR:HA	2.16	0.46
46:BY:47:VAL:O	46:BY:50:GLN:HB2	2.15	0.46
46:BY:61:LEU:HD23	46:BY:66:SER:HA	1.98	0.46
47:BZ:21:LEU:HA	47:BZ:39:ARG:HB2	1.96	0.46
32:BK:88:ILE:N	32:BK:88:ILE:HD12	2.31	0.46
24:BA:2125:G:OP1	26:BC:40:THR:CG2	2.63	0.46
26:BC:123:VAL:CG1	26:BC:138:PRO:HG2	2.41	0.46
24:BA:2186:G:N2	24:BA:2187:G:C5	2.84	0.46
24:BA:273(E):U:N3	24:BA:273(F):C:H1'	2.30	0.46
1:AA:1029:G:C4	1:AA:1032(A):G:C6	3.03	0.46
1:AA:1176:A:N6	1:AA:1177:G:N1	2.63	0.46
1:AA:1183:A:H2'	1:AA:1184:G:OP1	2.15	0.46
1:AA:1276:G:H1'	1:AA:1282:C:O2'	2.15	0.46
1:AA:1506:U:C5'	1:AA:1507:A:OP2	2.59	0.46
1:AA:186(C):G:C6	1:AA:191(E):G:C6	3.03	0.46
1:AA:217:C:N4	1:AA:218:C:N4	2.64	0.46
1:AA:267:C:C2	1:AA:268:C:C5	3.04	0.46
1:AA:298:A:H3'	1:AA:299:G:H8	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:322:C:C2'	1:AA:323:U:H5'	2.46	0.46
1:AA:395:C:C2	1:AA:396:G:N7	2.83	0.46
1:AA:474:G:OP2	1:AA:474:G:H8	1.97	0.46
1:AA:520:A:C8	1:AA:521:G:H5''	2.48	0.46
1:AA:25:C:H4'	1:AA:524:G:H21	1.80	0.46
1:AA:564:C:H2'	1:AA:565:U:O4'	2.16	0.46
1:AA:569:C:C1'	1:AA:574:A:C2	2.99	0.46
1:AA:589:C:N4	1:AA:590:C:H41	2.14	0.46
1:AA:670:G:C6	1:AA:671:G:C8	3.03	0.46
1:AA:717:C:O2'	1:AA:718:G:OP2	2.33	0.46
1:AA:588:G:H1'	1:AA:753:A:C6	2.49	0.46
1:AA:779:C:H2'	1:AA:780:A:O4'	2.15	0.46
1:AA:812:C:C4'	1:AA:813:U:H6	2.28	0.46
1:AA:817:C:C6	1:AA:819:A:C4'	2.98	0.46
1:AA:946:A:C3'	1:AA:947:G:H8	2.29	0.46
1:AA:956:U:O2	1:AA:960:U:O4	2.34	0.46
3:AB:52:G:H2'	3:AB:53:G:N9	2.31	0.46
3:AC:42:C:H2'	3:AC:43:C:O4'	2.15	0.46
4:AE:115:LEU:HD23	4:AE:149:LEU:HD13	1.94	0.46
4:AE:46:LYS:NZ	4:AE:49:GLU:HG2	2.31	0.46
4:AE:56:ARG:O	4:AE:57:PHE:C	2.53	0.46
5:AF:50:ALA:HB1	5:AF:72:LYS:HB2	1.96	0.46
6:AG:98:GLU:HG2	6:AG:173:TRP:HE1	1.80	0.46
6:AG:195:ALA:C	6:AG:196:LEU:HG	2.35	0.46
6:AG:3:ARG:NH1	6:AG:118:ARG:CZ	2.78	0.46
9:AJ:149:ARG:O	9:AJ:151:TYR:N	2.49	0.46
9:AJ:155:ARG:C	9:AJ:156:TRP:HE3	2.19	0.46
9:AJ:42:ILE:HD13	9:AJ:116:ALA:HB1	1.98	0.46
9:AJ:50:ILE:HD13	9:AJ:58:PRO:CB	2.46	0.46
10:AK:35:ILE:O	10:AK:36:LEU:C	2.52	0.46
10:AK:51:VAL:HG21	10:AK:60:ARG:HE	1.81	0.46
10:AK:79:VAL:HG12	10:AK:80:ILE:N	2.31	0.46
11:AL:5:TYR:HD2	11:AL:6:GLY:H	1.62	0.46
12:AM:60:ARG:CB	12:AM:60:ARG:NH1	2.79	0.46
13:AN:23:ALA:HB1	13:AN:88:GLY:CA	2.45	0.46
15:AP:96:LEU:O	15:AP:97:PRO:C	2.52	0.46
5:AF:18:TRP:HZ2	16:AQ:57:ARG:HB2	1.80	0.46
19:AT:56:VAL:C	19:AT:57:VAL:HG12	2.36	0.46
19:AT:84:LEU:O	19:AT:85:VAL:C	2.54	0.46
19:AT:87:LYS:HA	19:AT:87:LYS:HD2	1.54	0.46
20:AU:33:ASP:O	20:AU:69:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:45:ILE:CD1	48:B1:46:ARG:N	2.78	0.46
50:B3:10:VAL:O	50:B3:10:VAL:CG1	2.63	0.46
50:B3:56:VAL:O	50:B3:57:GLU:HG2	2.16	0.46
24:BA:2287:A:H2	52:B5:37:ARG:HH22	1.62	0.46
52:B5:9:LEU:C	52:B5:10:LEU:HD23	2.35	0.46
54:B7:30:ARG:HG2	54:B7:31:HIS:N	2.24	0.46
36:BO:49:ARG:HD3	54:B7:52:LYS:HE3	1.97	0.46
24:BA:1014:U:C2'	24:BA:1015:G:C5'	2.92	0.46
24:BA:1071:G:C3'	24:BA:1072:C:H5'	2.46	0.46
24:BA:107:C:H2'	24:BA:108:U:H6	1.80	0.46
24:BA:120:U:H2'	24:BA:121:G:OP2	2.14	0.46
24:BA:1213:A:H3'	24:BA:1214:A:H8	1.81	0.46
24:BA:1216:G:N2	24:BA:1234:U:H1'	2.31	0.46
24:BA:1350:C:H2'	24:BA:1351:C:O5'	2.15	0.46
24:BA:1360:A:H2'	24:BA:1361:G:H5'	1.98	0.46
24:BA:1438:U:OP2	24:BA:1438:U:H6	1.98	0.46
24:BA:1491:G:C4	24:BA:1492:G:O2'	2.61	0.46
24:BA:14:A:H2	24:BA:2625:G:HO2'	1.63	0.46
24:BA:1608:A:C2	24:BA:1611:C:C5	3.04	0.46
24:BA:1620:G:O2'	24:BA:1621:U:C5'	2.63	0.46
24:BA:1631:A:C2'	24:BA:1632:A:O5'	2.64	0.46
24:BA:1638:C:H5''	24:BA:2710:C:O2'	2.16	0.46
24:BA:1650:G:O2'	24:BA:1651:G:C5'	2.63	0.46
24:BA:1669:A:C2'	24:BA:1669:A:N3	2.77	0.46
24:BA:1672:C:C2'	24:BA:1673:U:OP1	2.64	0.46
24:BA:1683:C:C6	24:BA:1683:C:O5'	2.68	0.46
24:BA:1689:A:C5	24:BA:1700:A:C6	3.04	0.46
24:BA:1697:G:H8	24:BA:1698:A:H5''	1.75	0.46
24:BA:1364:G:P	24:BA:1809:A:N6	2.89	0.46
24:BA:1829:A:C2	24:BA:1830:C:O4'	2.68	0.46
24:BA:188:G:H2'	24:BA:189:G:C8	2.49	0.46
24:BA:1847:A:N6	24:BA:1890:A:OP2	2.48	0.46
24:BA:188:G:C8	24:BA:189:G:C8	3.04	0.46
24:BA:1929:G:H5''	24:BA:1930:G:OP1	2.16	0.46
24:BA:1931:U:C5	24:BA:1969:A:N6	2.82	0.46
24:BA:1268:A:OP2	24:BA:2006:C:OP2	2.33	0.46
24:BA:2009:G:N1	24:BA:2010:G:N7	2.64	0.46
24:BA:2010:G:C5	24:BA:2011:U:C6	3.04	0.46
24:BA:2032:G:O2'	28:BE:145:LYS:HD2	2.16	0.46
24:BA:2046:G:P	51:B4:18:ALA:HB1	2.56	0.46
24:BA:2094:G:C6	24:BA:2196:C:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2285:C:C3'	24:BA:2285:C:C6	2.99	0.46
24:BA:2286:A:C8	24:BA:2286:A:C3'	2.91	0.46
24:BA:2323:G:C4	24:BA:2324:C:C5	3.03	0.46
24:BA:2346:A:H1'	24:BA:2383:G:N7	2.26	0.46
24:BA:2345:G:N2	24:BA:2381:C:H2'	2.30	0.46
24:BA:2259:G:C4'	24:BA:2427:C:H2'	2.46	0.46
24:BA:2433:A:N3	24:BA:2433:A:C2'	2.76	0.46
24:BA:251:A:HO2'	24:BA:252:G:P	2.38	0.46
24:BA:270(C):C:C2'	24:BA:270(D):C:H6	2.02	0.46
24:BA:2734:A:N6	24:BA:2735:G:C2	2.83	0.46
24:BA:2766:G:N3	24:BA:2767:C:C6	2.84	0.46
24:BA:2846:G:H2'	24:BA:2846:G:N3	2.31	0.46
24:BA:2884:U:H2'	24:BA:2885:C:C5'	2.46	0.46
24:BA:304:G:H2'	24:BA:305:U:O4'	2.16	0.46
24:BA:311:A:H62	24:BA:329:G:C5'	2.28	0.46
24:BA:319:C:C4	24:BA:320:A:C6	3.04	0.46
24:BA:333:G:C2	24:BA:334:C:C6	3.04	0.46
24:BA:345:A:OP1	24:BA:345:A:H4'	2.14	0.46
24:BA:443:A:H61	29:BF:41:LEU:HD12	1.76	0.46
24:BA:449:A:O2'	24:BA:450:G:C5'	2.62	0.46
24:BA:483:A:H1'	45:BX:45:VAL:O	2.15	0.46
24:BA:493:G:O2'	43:BV:7:ALA:HB1	2.15	0.46
24:BA:582:G:C6	24:BA:583:G:O6	2.69	0.46
24:BA:621:A:C8	24:BA:622:G:C5'	2.99	0.46
24:BA:657:U:C2	24:BA:658:C:C5	3.04	0.46
24:BA:658:C:H2'	24:BA:659:C:C6	2.51	0.46
24:BA:704:G:C2'	24:BA:704:G:N3	2.78	0.46
24:BA:729:G:C6	24:BA:730:C:C2	3.03	0.46
24:BA:837:C:O5'	24:BA:837:C:H6	1.99	0.46
24:BA:848:G:H8	24:BA:848:G:H5''	1.80	0.46
24:BA:869:G:C3'	24:BA:870:A:H5''	2.43	0.46
24:BA:950:G:C5	24:BA:951:C:C5	3.04	0.46
25:BB:81:G:O6	25:BB:96:G:C6	2.68	0.46
27:BD:131:LEU:HA	27:BD:131:LEU:HD12	1.68	0.46
27:BD:177:LEU:CD2	27:BD:181:GLU:O	2.60	0.46
27:BD:143:HIS:NE2	27:BD:192:THR:HG22	2.30	0.46
27:BD:95:LEU:CD2	27:BD:96:HIS:N	2.70	0.46
28:BE:66:HIS:CE1	28:BE:70:ALA:HA	2.50	0.46
29:BF:37:VAL:O	29:BF:41:LEU:CG	2.64	0.46
15:AP:3:ARG:NH2	30:BG:139:LEU:O	2.49	0.46
30:BG:151:ALA:HB1	30:BG:152:LEU:HG	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:165:THR:HB	30:BG:168:GLU:OE2	2.15	0.46
31:BH:93:GLY:O	31:BH:107:VAL:HB	2.15	0.46
31:BH:85:LYS:O	31:BH:133:VAL:O	2.33	0.46
35:BN:72:PRO:HG3	35:BN:107:ARG:HH22	1.81	0.46
35:BN:78:ARG:CZ	35:BN:78:ARG:N	2.78	0.46
36:BO:23:PRO:CB	36:BO:28:GLY:HA2	2.25	0.46
36:BO:71:VAL:N	36:BO:72:PRO:HD3	2.31	0.46
37:BP:54:MET:HB3	37:BP:58:PHE:CE2	2.47	0.46
37:BP:54:MET:SD	37:BP:121:ALA:CB	3.02	0.46
38:BQ:118:GLU:OE2	38:BQ:118:GLU:HA	2.15	0.46
38:BQ:52:ILE:O	38:BQ:56:LYS:CG	2.63	0.46
38:BQ:75:LEU:HD23	38:BQ:78:LYS:HB3	1.98	0.46
25:BB:7:G:C5'	39:BR:29:PHE:CE2	2.99	0.46
40:BS:108:ARG:O	40:BS:110:ILE:HG13	2.16	0.46
40:BS:53:ARG:NH2	40:BS:101:PHE:H	2.14	0.46
40:BS:97:ALA:C	40:BS:99:LEU:H	2.19	0.46
41:BT:55:ARG:H	41:BT:55:ARG:CD	2.16	0.46
41:BT:70:ARG:C	41:BT:72:HIS:N	2.67	0.46
41:BT:80:ILE:HA	41:BT:83:LEU:CD1	2.45	0.46
41:BT:89:GLU:O	41:BT:90:VAL:HG22	2.16	0.46
43:BV:16:LYS:H	43:BV:16:LYS:CE	2.28	0.46
24:BA:297:C:C5'	45:BX:83:THR:CG2	2.93	0.46
46:BY:130:PRO:O	46:BY:132:ASN:N	2.49	0.46
46:BY:153:SER:H	46:BY:168:GLU:HB2	1.79	0.46
46:BY:128:VAL:CG2	46:BY:164:ALA:HB2	2.45	0.46
46:BY:70:LEU:C	46:BY:70:LEU:CD1	2.84	0.46
37:BP:136:ALA:CB	46:BY:76:LEU:HD13	2.46	0.46
47:BZ:72:ARG:O	47:BZ:73:GLY:O	2.34	0.46
3:AD:21:A:C6	3:AD:46:G:N2	2.79	0.46
24:BA:2134:A:C2	24:BA:2134:A:OP1	2.68	0.46
24:BA:2157:G:C2	24:BA:2157:G:OP2	2.69	0.46
26:BC:26:ALA:HB1	26:BC:185:LEU:HD12	1.97	0.46
26:BC:87:GLU:HG3	26:BC:94:VAL:HG11	1.97	0.46
24:BA:1417:C:C2'	24:BA:1418:G:O5'	2.63	0.46
1:AA:1171:G:O2'	1:AA:1172:C:H6	1.99	0.46
29:BF:146:ALA:CB	29:BF:148:LEU:HD23	2.45	0.46
24:BA:2106:G:H2'	24:BA:2107:C:O4'	2.15	0.46
1:AA:1048:G:HO2'	1:AA:1050:G:P	2.38	0.46
1:AA:110:C:C2'	1:AA:111:G:C5'	2.94	0.46
1:AA:1092:A:N7	1:AA:1183:A:N7	2.63	0.46
1:AA:977:A:N6	1:AA:1224:G:P	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1256:A:C6	1:AA:1278:U:O2'	2.64	0.46
1:AA:1259:C:C2	1:AA:1283:G:H1'	2.49	0.46
1:AA:1319:A:H61	1:AA:1361:G:H1'	1.80	0.46
1:AA:1361:G:C3'	1:AA:1361:G:C8	2.99	0.46
1:AA:1374:A:H2'	1:AA:1375:A:O5'	2.16	0.46
1:AA:1399:C:HO2'	1:AA:1400:C:P	2.38	0.46
1:AA:1453:G:O2'	1:AA:1454:G:H5'	2.16	0.46
1:AA:142:G:O2'	1:AA:196:A:C2	2.64	0.46
1:AA:196:A:H1'	1:AA:222:U:O4'	2.15	0.46
1:AA:43:C:O5'	18:AS:12:LYS:HG2	2.15	0.46
1:AA:501:C:OP2	14:AO:124:LYS:HD2	2.16	0.46
1:AA:560:U:C2'	1:AA:561:U:OP2	2.63	0.46
1:AA:563:A:C2	1:AA:567:G:C5	3.04	0.46
1:AA:590:C:OP1	10:AK:29:SER:CB	2.62	0.46
1:AA:597:G:C8	1:AA:644:G:N2	2.83	0.46
1:AA:771:G:O6	1:AA:809:G:C6	2.69	0.46
1:AA:834:C:N4	1:AA:853:G:O6	2.49	0.46
1:AA:864:A:H8	1:AA:864:A:O5'	1.99	0.46
1:AA:873:A:C5'	1:AA:874:G:OP2	2.60	0.46
1:AA:924:C:H5'	1:AA:1399:C:OP1	2.16	0.46
1:AA:97:U:H2'	1:AA:99:C:C6	2.51	0.46
4:AE:20:GLU:CG	4:AE:189:ASP:OD2	2.64	0.46
4:AE:32:ILE:CG2	4:AE:32:ILE:O	2.61	0.46
4:AE:18:GLY:HA2	4:AE:41:ILE:HG23	1.96	0.46
4:AE:88:ALA:HA	4:AE:222:ILE:CD1	2.46	0.46
5:AF:84:ILE:HG13	5:AF:101:LEU:CG	2.46	0.46
5:AF:33:LEU:HD11	16:AQ:53:LEU:CA	2.28	0.46
5:AF:47:LEU:O	5:AF:52:LEU:HD13	2.16	0.46
6:AG:191:ARG:HB3	6:AG:192:GLU:OE1	2.16	0.46
7:AH:9:LYS:HD2	7:AH:112:LEU:HD23	1.96	0.46
7:AH:12:LEU:C	7:AH:13:ILE:HD12	2.35	0.46
9:AJ:69:VAL:HG13	9:AJ:135:VAL:N	2.30	0.46
1:AA:1240:U:N1	9:AJ:32:ARG:NH2	2.63	0.46
9:AJ:70:LYS:C	9:AJ:138:LYS:HE3	2.36	0.46
9:AJ:75:VAL:HG22	9:AJ:88:PRO:HA	1.95	0.46
10:AK:137:VAL:CG1	10:AK:138:TRP:N	2.79	0.46
10:AK:18:ARG:HD2	10:AK:18:ARG:H	1.81	0.46
1:AA:1058:G:H21	12:AM:53:PRO:HG3	1.81	0.46
13:AN:21:ILE:HG12	13:AN:83:ILE:O	2.15	0.46
14:AO:26:ALA:HA	14:AO:98:TYR:HE2	1.80	0.46
14:AO:85:ILE:HD12	14:AO:99:HIS:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:104:ARG:CD	15:AP:105:THR:HG23	2.46	0.46
15:AP:25:ILE:HG12	15:AP:66:LEU:CD1	2.46	0.46
15:AP:15:VAL:CG1	15:AP:39:ILE:HD12	2.43	0.46
17:AR:49:ASP:O	17:AR:50:HIS:C	2.53	0.46
18:AS:19:ILE:O	18:AS:36:ILE:HG13	2.15	0.46
1:AA:377:G:OP1	18:AS:3:LYS:HD2	2.15	0.46
1:AA:278:G:C4	19:AT:95:TYR:CE2	3.04	0.46
21:AV:15:LEU:O	21:AV:16:LEU:C	2.53	0.46
1:AA:1459:C:P	22:AW:27:LYS:NZ	2.89	0.46
22:AW:33:ILE:CD1	22:AW:63:ILE:HA	2.24	0.46
22:AW:86:ARG:O	22:AW:90:GLN:OE1	2.34	0.46
48:B1:19:LEU:HD22	48:B1:23:LYS:HG3	1.98	0.46
49:B2:7:LYS:HB3	49:B2:55:ARG:CB	2.43	0.46
24:BA:1263:U:C5'	51:B4:10:LYS:HZ3	2.26	0.46
52:B5:25:LYS:HE2	54:B7:35:GLN:CB	2.42	0.46
55:B8:19:ARG:HG2	55:B8:24:TYR:HB2	1.98	0.46
24:BA:82:G:N2	24:BA:103:A:OP2	2.47	0.46
24:BA:1080:C:O2'	33:BL:126:MET:N	2.48	0.46
24:BA:1110:G:O3'	24:BA:1111:A:C8	2.69	0.46
24:BA:1130:U:O2'	24:BA:1131:G:P	2.73	0.46
24:BA:1264:G:C3'	24:BA:1264:G:C8	2.99	0.46
24:BA:1352:U:O2'	24:BA:1353:A:C5'	2.61	0.46
24:BA:1361:G:O2'	24:BA:1362:C:H5'	2.16	0.46
24:BA:1433:U:C6	24:BA:1433:U:C3'	2.98	0.46
24:BA:1522:G:H3'	24:BA:1522:G:H8	1.80	0.46
24:BA:1449:A:H1'	24:BA:1529:A:C5	2.50	0.46
24:BA:1496:A:C4	24:BA:1577:C:O2'	2.69	0.46
24:BA:1591:G:C6	24:BA:1592:C:C4	3.03	0.46
24:BA:1667:G:C2'	24:BA:1667:G:N3	2.64	0.46
24:BA:1725:G:C2	24:BA:1726:G:C8	3.04	0.46
24:BA:1794:U:O4'	24:BA:1900:A:C5	2.69	0.46
24:BA:1799:G:C8	27:BD:183:ARG:NH2	2.80	0.46
24:BA:1858:G:O2'	24:BA:1859:A:O5'	2.34	0.46
24:BA:1883:G:H5''	24:BA:1884:A:OP1	2.15	0.46
24:BA:193:U:C4'	24:BA:803:U:H5'	2.46	0.46
24:BA:1953:A:N6	24:BA:2550:G:C4'	2.77	0.46
24:BA:1958:C:O2'	24:BA:1959:G:C5'	2.58	0.46
24:BA:2027:G:C1'	24:BA:2037:G:H22	2.23	0.46
24:BA:21:A:O2'	24:BA:22:C:H5'	2.16	0.46
24:BA:2232:U:C2'	24:BA:2233:U:O5'	2.64	0.46
24:BA:2264:C:H2'	24:BA:2265:U:O5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2305:A:C1'	30:BG:154:GLY:C	2.84	0.46
24:BA:2374:C:N4	24:BA:2375:G:O6	2.49	0.46
24:BA:2345:G:H21	24:BA:2381:C:H3'	1.79	0.46
24:BA:2390:U:O2'	24:BA:2391:G:C5'	2.58	0.46
24:BA:2450:A:C2	24:BA:2451:A:C1'	2.98	0.46
24:BA:250:G:OP1	54:B7:12:LYS:NZ	2.35	0.46
24:BA:2690:C:O2'	24:BA:2691:C:H5'	2.16	0.46
24:BA:2691:C:C4'	24:BA:2872:G:N7	2.78	0.46
24:BA:270:A:O2'	24:BA:270(A):A:OP1	2.32	0.46
24:BA:270(N):G:H3'	24:BA:270(O):U:C5	2.50	0.46
24:BA:2691:C:N4	24:BA:2719:G:N2	2.64	0.46
24:BA:2752:C:C6	24:BA:2752:C:OP1	2.69	0.46
24:BA:2811:G:N1	24:BA:2891:G:N3	2.64	0.46
24:BA:2815:C:O2'	51:B4:42:PRO:HB3	2.16	0.46
24:BA:2825:C:N3	24:BA:2826:A:C5	2.84	0.46
24:BA:2826:A:H2'	24:BA:2827:C:C5'	2.46	0.46
24:BA:2630:G:H21	24:BA:2892:A:H1'	1.81	0.46
24:BA:298:G:H8	24:BA:298:G:P	2.38	0.46
24:BA:304:G:N2	24:BA:305:U:H1'	2.30	0.46
24:BA:324:A:H2	24:BA:325:G:C1'	2.28	0.46
24:BA:417:C:O5'	24:BA:417:C:H6	1.98	0.46
24:BA:269:U:C2	24:BA:424:G:N1	2.84	0.46
24:BA:465:G:H21	24:BA:683:C:C2'	2.27	0.46
24:BA:640:C:H42	24:BA:647:G:H1	1.58	0.46
24:BA:885:C:H5	24:BA:887:A:N3	2.14	0.46
24:BA:915:C:O2'	24:BA:916:G:H5'	2.16	0.46
24:BA:986:C:H3'	24:BA:986:C:C6	2.51	0.46
25:BB:113:C:H2'	25:BB:114:G:C8	2.50	0.46
25:BB:32:C:O2	25:BB:32:C:C2'	2.60	0.46
25:BB:52:A:H4'	25:BB:52:A:OP1	2.15	0.46
27:BD:171:ASP:O	27:BD:186:HIS:CB	2.64	0.46
27:BD:55:GLY:HA2	27:BD:218:ARG:HD3	1.96	0.46
27:BD:34:VAL:H	27:BD:104:TYR:HH	1.61	0.46
27:BD:68:LYS:HB3	27:BD:70:TRP:CE2	2.48	0.46
28:BE:5:LEU:HG	28:BE:25:VAL:CG1	2.44	0.46
28:BE:38:THR:HG22	28:BE:39:PRO:CD	2.46	0.46
28:BE:53:PRO:HG2	28:BE:75:VAL:CG1	2.45	0.46
28:BE:95:ILE:HG22	28:BE:96:PHE:N	2.31	0.46
24:BA:659:C:C5'	29:BF:102:PRO:HD3	2.45	0.46
30:BG:107:LEU:CD1	30:BG:111:LEU:HD13	2.40	0.46
30:BG:30:GLU:HG2	30:BG:33:ARG:CG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:39:ILE:CD1	30:BG:92:VAL:O	2.64	0.46
31:BH:101:ARG:HB3	31:BH:117:PRO:CD	2.45	0.46
31:BH:137:ASP:HB3	31:BH:140:LYS:CE	2.46	0.46
31:BH:154:PRO:O	31:BH:155:SER:CB	2.54	0.46
31:BH:97:ARG:O	31:BH:104:GLU:CG	2.64	0.46
33:BL:10:LEU:HD23	33:BL:55:VAL:O	2.15	0.46
33:BL:78:ILE:HD13	33:BL:131:ALA:CA	2.45	0.46
34:BM:134:ARG:N	34:BM:135:PRO:HD2	2.31	0.46
34:BM:72:TYR:O	34:BM:72:TYR:HD2	1.99	0.46
35:BN:8:LEU:HD11	35:BN:82:ASN:CA	2.43	0.46
36:BO:131:SER:N	36:BO:134:ALA:CB	2.79	0.46
24:BA:2393:A:C5'	36:BO:56:SER:H	2.28	0.46
37:BP:42:ILE:CD1	37:BP:46:GLN:NE2	2.78	0.46
37:BP:46:GLN:HG2	37:BP:125:LEU:HD22	1.97	0.46
37:BP:77:LYS:HG3	37:BP:88:GLY:O	2.15	0.46
38:BQ:75:LEU:HD23	38:BQ:78:LYS:CG	2.45	0.46
38:BQ:84:ALA:HB3	38:BQ:85:PRO:HD3	1.98	0.46
39:BR:36:TYR:HD1	39:BR:51:ALA:HB3	1.81	0.46
39:BR:77:ALA:CA	39:BR:80:LEU:HB2	2.46	0.46
40:BS:51:ARG:NH1	40:BS:114:LEU:CD1	2.76	0.46
35:BN:122:LEU:HA	40:BS:71:GLY:HA3	1.97	0.46
42:BU:15:GLU:O	42:BU:98:GLU:CD	2.55	0.46
44:BW:6:ASP:OD1	44:BW:7:VAL:N	2.49	0.46
44:BW:84:ALA:N	44:BW:85:PRO:CD	2.78	0.46
46:BY:102:LEU:HA	46:BY:137:ILE:O	2.15	0.46
46:BY:110:GLY:HA2	46:BY:144:LEU:CB	2.44	0.46
46:BY:17:ALA:HA	46:BY:20:ARG:HH21	1.80	0.46
46:BY:17:ALA:O	46:BY:20:ARG:HB3	2.16	0.46
46:BY:77:ASP:O	46:BY:78:LYS:C	2.53	0.46
24:BA:2114:A:H2'	24:BA:2115:G:C4'	2.46	0.46
24:BA:2128:C:C4	24:BA:2129:C:C5	3.03	0.46
26:BC:209:LEU:C	26:BC:209:LEU:HD23	2.36	0.46
48:B1:6:GLU:O	48:B1:10:LYS:HE2	2.15	0.46
1:AA:131:C:C4	1:AA:232:G:N2	2.84	0.46
24:BA:1767:C:O2'	24:BA:1768:U:H5'	2.16	0.46
1:AA:73:G:C4	1:AA:74:C:C5	3.03	0.46
24:BA:1232:G:C2	24:BA:1233:C:C6	3.04	0.46
1:AA:1053:G:H2'	1:AA:1199:U:H5	1.80	0.46
1:AA:104:G:N1	1:AA:105:G:C5	2.83	0.46
1:AA:1062:U:N3	1:AA:1063:C:N4	2.63	0.46
1:AA:1152:A:C6	1:AA:1153:C:C4	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1332:A:H3'	1:AA:1333:A:C8	2.51	0.46
1:AA:1358:U:OP1	16:AQ:34:TYR:CA	2.63	0.46
1:AA:1407:C:N3	1:AA:1495:U:O4	2.49	0.46
1:AA:184:G:H4'	1:AA:224:C:O3'	2.16	0.46
1:AA:258:G:N1	1:AA:259:G:C5	2.84	0.46
1:AA:251:G:H1	1:AA:271:C:H41	1.64	0.46
1:AA:299:G:C5	1:AA:300:A:N6	2.84	0.46
1:AA:305:G:O2'	1:AA:306:G:OP2	2.33	0.46
1:AA:498:A:C4'	1:AA:500:G:OP1	2.61	0.46
1:AA:682:G:C2	1:AA:683:G:C8	3.04	0.46
1:AA:688:G:H2'	1:AA:689:C:O4'	2.16	0.46
1:AA:695:A:C2	1:AA:696:A:N9	2.84	0.46
1:AA:706:A:C2	1:AA:707:C:N1	2.84	0.46
1:AA:729:A:N6	17:AR:51:HIS:NE2	2.64	0.46
1:AA:739:C:H2'	1:AA:740:U:O5'	2.16	0.46
1:AA:586:C:H1'	1:AA:878:G:O2'	2.16	0.46
1:AA:931:C:H2'	1:AA:932:C:C6	2.51	0.46
3:AB:18:G:HO2'	3:AB:57:G:N2	2.13	0.46
3:AC:4:C:H2'	3:AC:5:G:O5'	2.15	0.46
4:AE:80:ILE:CG1	4:AE:212:GLN:HG2	2.45	0.46
4:AE:35:GLU:CD	4:AE:36:ARG:N	2.69	0.46
5:AF:5:ILE:CD1	5:AF:10:PHE:CE2	2.99	0.46
6:AG:100:ARG:HG2	6:AG:100:ARG:HH11	1.81	0.46
1:AA:408:A:H5'	6:AG:116:GLN:HE21	1.81	0.46
1:AA:438:G:C5'	6:AG:123:HIS:HB3	2.45	0.46
6:AG:112:VAL:HG22	6:AG:161:ASN:HD21	1.81	0.46
6:AG:173:TRP:CD1	6:AG:185:PHE:CE2	3.02	0.46
6:AG:29:PRO:O	6:AG:30:LYS:CB	2.64	0.46
7:AH:129:ILE:O	7:AH:130:ASN:C	2.54	0.46
7:AH:40:ARG:HB2	7:AH:68:GLU:OE1	2.14	0.46
9:AJ:15:ASP:OD2	9:AJ:16:LEU:N	2.49	0.46
10:AK:114:THR:H	10:AK:119:LEU:HD23	1.81	0.46
10:AK:46:LYS:HG3	10:AK:64:LYS:HB2	1.97	0.46
10:AK:49:GLU:OE2	10:AK:60:ARG:HB3	2.16	0.46
10:AK:63:LEU:HB2	10:AK:65:TYR:HE1	1.79	0.46
1:AA:1131:G:OP1	11:AL:20:ARG:NH1	2.49	0.46
11:AL:31:GLN:HB3	11:AL:35:GLU:OE2	2.15	0.46
12:AM:47:PHE:HZ	12:AM:65:LEU:HB2	1.80	0.46
12:AM:16:LEU:HD13	12:AM:94:VAL:HG21	1.98	0.46
13:AN:103:LEU:O	13:AN:104:GLN:CB	2.63	0.46
13:AN:34:ASP:CB	13:AN:35:PRO:CD	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:97:PRO:CB	15:AP:101:GLN:CB	2.94	0.46
15:AP:73:GLU:OE2	15:AP:77:ASN:HB3	2.16	0.46
17:AR:11:VAL:C	17:AR:13:GLN:N	2.62	0.46
17:AR:6:GLU:O	17:AR:8:LYS:N	2.49	0.46
18:AS:75:ARG:O	18:AS:76:GLN:C	2.54	0.46
19:AT:50:LYS:HB3	19:AT:51:TYR:CD1	2.51	0.46
8:AI:97:PHE:O	20:AU:30:ASP:HA	2.16	0.46
48:B1:23:LYS:NZ	48:B1:23:LYS:HB3	2.30	0.46
49:B2:29:ARG:HB2	49:B2:30:ARG:HH21	1.72	0.46
49:B2:6:VAL:CB	49:B2:35:ARG:HH21	2.29	0.46
50:B3:38:LYS:HG2	50:B3:40:HIS:CE1	2.51	0.46
50:B3:42:PHE:O	50:B3:61:ARG:NH2	2.48	0.46
50:B3:58:ARG:CG	50:B3:62:ARG:NH2	2.79	0.46
50:B3:62:ARG:HA	50:B3:65:ASP:OD1	2.16	0.46
52:B5:50:ARG:O	52:B5:51:GLU:HB3	2.15	0.46
24:BA:458:G:N7	53:B6:38:GLY:CA	2.79	0.46
24:BA:1069:A:C2	24:BA:1073:A:OP2	2.68	0.46
24:BA:1076:C:H4'	33:BL:93:ARG:HH21	1.77	0.46
24:BA:1184:G:P	49:B2:30:ARG:HH11	2.39	0.46
24:BA:1229:G:C5	24:BA:1230:C:C2	3.03	0.46
24:BA:1237:A:O2'	24:BA:1238:G:C4'	2.62	0.46
24:BA:1308:A:N6	24:BA:1606:G:H1'	2.31	0.46
24:BA:1322:A:H2'	24:BA:1323:U:C5'	2.45	0.46
24:BA:1382:G:C4	24:BA:1383:C:C5	3.03	0.46
24:BA:141:A:N3	24:BA:1596:A:O2'	2.40	0.46
24:BA:1429:G:H1'	24:BA:1568:G:C2	2.51	0.46
24:BA:1523:U:N3	24:BA:1524:G:C8	2.84	0.46
24:BA:1560:G:C4	24:BA:1561:G:C8	3.04	0.46
24:BA:1704:G:C2'	24:BA:1705:G:O5'	2.63	0.46
24:BA:1809:A:N1	50:B3:3:GLU:CD	2.69	0.46
24:BA:1850:G:C6	24:BA:1851:U:C4	3.04	0.46
24:BA:1889:A:O4'	24:BA:2087:G:C4'	2.62	0.46
24:BA:1892:C:N4	24:BA:1893:C:H41	2.13	0.46
24:BA:1907:G:O2'	24:BA:1908:C:H5'	2.15	0.46
24:BA:1914:C:P	24:BA:1916:A:C6	3.09	0.46
24:BA:1917:U:C6	24:BA:1918:A:N9	2.84	0.46
24:BA:19:C:C2	24:BA:20:C:C5	3.04	0.46
24:BA:2033:A:C6	24:BA:2036:C:N4	2.83	0.46
24:BA:2041:U:O2'	24:BA:2042:A:O4'	2.21	0.46
24:BA:2072:G:C4	24:BA:2073:C:H5	2.27	0.46
24:BA:2199:A:C5	24:BA:2205:C:C5	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2378:A:N3	24:BA:2378:A:C2'	2.77	0.46
24:BA:2401:U:H2'	24:BA:2402:C:O4'	2.15	0.46
24:BA:2407:G:H3'	24:BA:2408:U:C5	2.51	0.46
24:BA:2516:G:N9	24:BA:2569:G:N2	2.64	0.46
24:BA:2532:G:H2'	24:BA:2533:A:C8	2.51	0.46
24:BA:2519:U:C2	24:BA:2542:A:N1	2.83	0.46
24:BA:2586:C:H3'	24:BA:2586:C:C6	2.51	0.46
24:BA:2586:C:O2'	24:BA:2587:A:H5'	2.16	0.46
24:BA:1939:U:O2'	24:BA:2592:G:H1'	2.15	0.46
24:BA:2599:G:H2'	24:BA:2600:A:O4'	2.16	0.46
24:BA:2630:G:C8	24:BA:2894:G:C6	3.04	0.46
24:BA:2721:A:C3'	24:BA:2722:G:H8	2.28	0.46
24:BA:2851:A:C2'	24:BA:2852:G:O5'	2.64	0.46
24:BA:2888:C:O2'	24:BA:2889:C:O4'	2.24	0.46
24:BA:307:G:N1	24:BA:309:G:H5''	2.30	0.46
24:BA:319:C:H2'	24:BA:320:A:H8	1.71	0.46
24:BA:326:G:N3	24:BA:327:G:C8	2.84	0.46
24:BA:416:C:C2	24:BA:2407:G:O6	2.69	0.46
24:BA:459:U:H5	24:BA:469:G:C2	2.33	0.46
24:BA:485:C:C4	24:BA:486:C:C5	3.03	0.46
24:BA:531:C:H3'	24:BA:532:A:C1'	2.45	0.46
24:BA:533:G:C6	24:BA:534:U:C2	3.04	0.46
24:BA:603:A:N6	24:BA:625:G:C8	2.84	0.46
24:BA:607:U:H5	24:BA:620:G:H21	1.64	0.46
24:BA:6:A:C2	24:BA:7:G:C8	3.04	0.46
24:BA:743:G:H2'	24:BA:744:G:H8	1.79	0.46
24:BA:799:G:OP1	24:BA:800:A:H3'	2.15	0.46
24:BA:586:A:C2	24:BA:810:U:O4'	2.69	0.46
24:BA:959:A:C6	24:BA:960:A:C6	3.03	0.46
24:BA:997:G:H5''	41:BT:92:ARG:CZ	2.44	0.46
25:BB:27:C:H41	25:BB:56:G:H1	1.53	0.46
25:BB:68:C:H2'	25:BB:69:G:C8	2.50	0.46
25:BB:77:U:C2'	25:BB:78:A:H8	2.24	0.46
27:BD:129:ASN:O	27:BD:193:VAL:HG23	2.15	0.46
27:BD:216:GLY:O	27:BD:217:ARG:CB	2.42	0.46
28:BE:111:ARG:HB2	28:BE:160:TYR:C	2.37	0.46
28:BE:201:THR:O	28:BE:202:LYS:CB	2.63	0.46
29:BF:200:GLU:O	29:BF:204:ASN:OD1	2.33	0.46
30:BG:29:TRP:HB2	30:BG:31:VAL:HG23	1.97	0.46
31:BH:25:LYS:HD3	31:BH:27:LYS:HZ3	1.81	0.46
31:BH:6:ARG:O	31:BH:65:HIS:CD2	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:80:SER:OG	31:BH:81:GLU:OE2	2.33	0.46
32:BK:7:GLU:H	32:BK:8:PRO:HD3	1.79	0.46
34:BM:113:GLY:O	34:BM:116:LEU:N	2.48	0.46
34:BM:31:ALA:C	34:BM:33:LEU:N	2.69	0.46
24:BA:1996:C:OP2	35:BN:31:LYS:NZ	2.49	0.46
35:BN:31:LYS:O	35:BN:32:TYR:CG	2.68	0.46
36:BO:108:LYS:HD3	36:BO:109:GLY:N	2.20	0.46
36:BO:138:LEU:HD11	36:BO:145:PRO:HG3	1.97	0.46
36:BO:97:PRO:HA	36:BO:102:ARG:CZ	2.46	0.46
37:BP:99:PRO:CD	37:BP:101:ARG:NE	2.78	0.46
37:BP:67:ARG:NH2	37:BP:103:MET:O	2.49	0.46
37:BP:104:PHE:C	37:BP:105:GLU:OE1	2.55	0.46
37:BP:119:ARG:O	37:BP:123:HIS:HB3	2.15	0.46
37:BP:43:THR:O	37:BP:44:ALA:C	2.54	0.46
39:BR:9:ARG:N	39:BR:9:ARG:NH1	2.53	0.46
40:BS:96:ARG:NE	40:BS:117:ASP:HB3	2.31	0.46
40:BS:54:ARG:O	40:BS:55:ASN:OD1	2.34	0.46
41:BT:15:LYS:O	41:BT:16:LYS:C	2.52	0.46
42:BU:14:VAL:CG1	42:BU:15:GLU:H	2.08	0.46
42:BU:1:MET:HB3	42:BU:15:GLU:HG2	1.98	0.46
42:BU:67:GLY:HA2	42:BU:93:GLU:C	2.34	0.46
45:BX:37:VAL:HG22	45:BX:39:VAL:HG21	1.97	0.46
45:BX:47:LYS:HB3	45:BX:49:VAL:HG13	1.96	0.46
24:BA:297:C:H5''	45:BX:83:THR:CG2	2.46	0.46
46:BY:122:ARG:C	46:BY:124:ILE:H	2.18	0.46
46:BY:2:GLU:OE2	46:BY:58:VAL:CG2	2.64	0.46
25:BB:75:G:N3	46:BY:85:HIS:CE1	2.84	0.46
47:BZ:50:ASN:CB	47:BZ:63:VAL:HG22	2.46	0.46
32:BK:79:ILE:CD1	32:BK:79:ILE:N	2.67	0.46
26:BC:64:LEU:CB	26:BC:188:ASN:ND2	2.73	0.46
45:BX:42:VAL:N	45:BX:61:ILE:CB	2.68	0.46
24:BA:2103:C:C2'	24:BA:2104:G:H8	2.13	0.46
52:B5:54:ILE:C	52:B5:54:ILE:CD1	2.85	0.46
24:BA:489:G:N2	24:BA:491:G:H1'	2.30	0.46
2:A1:52:U:C5'	6:AG:50:ARG:HB2	2.45	0.46
1:AA:1026:G:C8	1:AA:1027:C:C5	3.04	0.46
1:AA:1111:A:C6	1:AA:1112:C:N4	2.84	0.46
1:AA:1132:C:C2	1:AA:1133:G:C8	3.03	0.46
1:AA:1180:A:C2'	1:AA:1181:G:C5'	2.86	0.46
1:AA:1182:G:H4'	1:AA:1183:A:C5'	2.45	0.46
1:AA:1210:C:H2'	1:AA:1211:U:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:991:U:N3	1:AA:1212:U:O2	2.49	0.46
1:AA:1239:A:H4'	1:AA:1240:U:O5'	2.15	0.46
1:AA:1250:A:C8	1:AA:1251:A:N7	2.85	0.46
1:AA:1277:C:H2'	1:AA:1279:A:H8	1.80	0.46
1:AA:1284:C:C4	1:AA:1285:A:C5	3.04	0.46
1:AA:1305:G:N2	1:AA:1331:G:N3	2.63	0.46
1:AA:1309:G:O6	1:AA:1329:A:C6	2.69	0.46
1:AA:1363:A:N3	1:AA:1365:G:N1	2.63	0.46
1:AA:1422:G:C2	1:AA:1423:G:N7	2.84	0.46
1:AA:18:C:N4	1:AA:918:A:N6	2.64	0.46
1:AA:244:U:HO2'	1:AA:245:C:P	2.36	0.46
1:AA:310:G:H2'	1:AA:311:C:C5	2.49	0.46
1:AA:659:U:C2	1:AA:660:G:N7	2.84	0.46
1:AA:692:U:O2	1:AA:694:A:H8	1.99	0.46
1:AA:883:C:H5'	1:AA:884:U:OP2	2.16	0.46
1:AA:955:U:H2'	1:AA:956:U:C6	2.51	0.46
3:AC:36:A:N1	3:AC:37:A:C5	2.84	0.46
4:AE:76:GLN:HG3	4:AE:206:ASP:OD2	2.16	0.46
5:AF:36:ASP:C	5:AF:36:ASP:OD2	2.54	0.46
6:AG:191:ARG:HD3	6:AG:191:ARG:C	2.35	0.46
6:AG:72:GLU:O	6:AG:75:PHE:HB3	2.15	0.46
7:AH:9:LYS:HB3	7:AH:108:ALA:HB1	1.97	0.46
7:AH:6:PHE:HZ	7:AH:66:MET:SD	2.39	0.46
8:AI:69:GLU:O	8:AI:72:VAL:HG22	2.16	0.46
9:AJ:111:ARG:HD3	9:AJ:122:HIS:HB3	1.98	0.46
9:AJ:57:GLU:CB	9:AJ:58:PRO:HD2	2.47	0.46
9:AJ:76:ARG:HH11	9:AJ:89:MET:CG	2.28	0.46
13:AN:42:TRP:HZ3	13:AN:47:VAL:CG2	2.29	0.46
14:AO:102:ARG:NH2	14:AO:109:GLY:C	2.69	0.46
14:AO:110:VAL:HB	14:AO:113:ARG:HG3	1.98	0.46
14:AO:64:TYR:O	14:AO:65:GLU:HG3	2.16	0.46
15:AP:3:ARG:HG3	15:AP:7:VAL:HA	1.97	0.46
15:AP:90:LEU:O	15:AP:91:ARG:C	2.52	0.46
17:AR:36:ILE:CG1	17:AR:60:VAL:HG22	2.46	0.46
8:AI:46:ARG:HH12	20:AU:37:VAL:HG22	1.81	0.46
20:AU:40:LEU:O	20:AU:41:LYS:C	2.54	0.46
20:AU:53:ARG:CA	20:AU:63:GLN:HE21	2.25	0.46
1:AA:191:G:N3	22:AW:105:SER:HB3	2.31	0.46
22:AW:81:LYS:O	22:AW:84:LEU:N	2.49	0.46
23:AX:24:ARG:O	23:AX:25:LYS:CB	2.60	0.46
51:B4:51:TYR:HD1	51:B4:55:ARG:H	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:20:ASN:HD21	52:B5:42:TRP:HD1	1.61	0.46
36:BO:56:SER:O	54:B7:13:ARG:NH1	2.49	0.46
55:B8:1:MET:N	55:B8:33:LYS:CB	2.79	0.46
24:BA:1128:A:O2'	24:BA:1129:A:C5'	2.64	0.46
24:BA:1144:G:C2'	24:BA:1145:C:H6	2.20	0.46
24:BA:1203:G:C5	24:BA:1240:U:C4	3.04	0.46
24:BA:119:A:O2'	24:BA:120:U:C5'	2.64	0.46
24:BA:1225:C:OP1	42:BU:88:ARG:HB3	2.16	0.46
24:BA:1243:G:N1	24:BA:1244:G:C4	2.84	0.46
24:BA:1364:G:C2	24:BA:1367:A:OP2	2.69	0.46
24:BA:1419:A:OP2	24:BA:1419:A:O4'	2.34	0.46
24:BA:1525:G:H2'	24:BA:1526:G:O5'	2.16	0.46
24:BA:1527:G:C2'	24:BA:1528:A:O4'	2.60	0.46
24:BA:1655:A:H3'	24:BA:1656:C:C6	2.51	0.46
24:BA:1657:C:C4	24:BA:1658:C:C5	3.04	0.46
24:BA:1684:C:N4	24:BA:1705:G:N1	2.64	0.46
24:BA:1799:G:O2'	24:BA:1800:C:C4'	2.63	0.46
24:BA:1831:G:C6	24:BA:1832:C:C4	3.04	0.46
24:BA:1899:G:H22	24:BA:1902:C:H41	1.62	0.46
24:BA:215:G:O2'	24:BA:216:A:H5''	2.15	0.46
24:BA:218:A:N6	24:BA:219:G:N2	2.64	0.46
24:BA:2227:A:C5'	27:BD:260:ARG:CD	2.91	0.46
24:BA:2230:G:C6	24:BA:2231:C:C4	3.04	0.46
24:BA:2236:C:C4	24:BA:2237:G:C4	3.04	0.46
24:BA:223:A:H2	24:BA:407:G:N3	2.14	0.46
24:BA:2285:C:C4'	24:BA:2288:A:C6	2.98	0.46
24:BA:2285:C:O4'	24:BA:2288:A:C6	2.69	0.46
24:BA:2386:C:H2'	24:BA:2386:C:O2	2.16	0.46
24:BA:2459:A:C6	24:BA:2493:U:C4	3.04	0.46
24:BA:2589:A:OP1	27:BD:226:MET:HG3	2.16	0.46
24:BA:2633:G:C6	24:BA:2634:G:N7	2.84	0.46
24:BA:2637:U:C5'	28:BE:81:ILE:CD1	2.79	0.46
24:BA:270(P):C:O5'	24:BA:270(P):C:H6	1.99	0.46
24:BA:2717:G:C4	24:BA:2718:G:C8	3.04	0.46
24:BA:2723:C:O2'	24:BA:2724:C:H5'	2.16	0.46
24:BA:1051:G:C4'	24:BA:2752:C:H1'	2.41	0.46
24:BA:2811:G:H2'	24:BA:2812:G:O4'	2.15	0.46
24:BA:2820:A:H4'	38:BQ:4:LEU:CD2	2.46	0.46
24:BA:2863:C:O2	24:BA:2864:G:C8	2.69	0.46
24:BA:35:G:C5	24:BA:454:A:H2	2.34	0.46
24:BA:389:G:OP1	24:BA:389:G:C8	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:427:U:O2'	24:BA:428:A:H1'	2.16	0.46
24:BA:500:G:C2'	24:BA:501:A:H3'	2.46	0.46
24:BA:529:A:H4'	24:BA:529:A:OP1	2.16	0.46
24:BA:52:A:C4	24:BA:53:A:N7	2.83	0.46
24:BA:588:U:H1'	29:BF:90:PHE:CG	2.51	0.46
24:BA:590:A:C2	24:BA:591:C:C2	3.04	0.46
24:BA:648:G:C2	24:BA:649:G:C8	3.04	0.46
24:BA:6:A:C2	24:BA:7:G:C5	3.04	0.46
24:BA:774:A:C5'	24:BA:778:G:O4'	2.64	0.46
24:BA:802:A:C6	24:BA:803:U:C2	3.04	0.46
24:BA:820:A:H2	24:BA:944:G:OP1	1.98	0.46
27:BD:54:ARG:HA	27:BD:220:HIS:H	1.81	0.46
27:BD:268:ARG:HG2	27:BD:269:PHE:N	2.31	0.46
27:BD:63:ARG:CZ	27:BD:63:ARG:N	2.79	0.46
28:BE:59:VAL:HB	28:BE:62:PRO:HG2	1.97	0.46
24:BA:2635:C:H5"	28:BE:78:LEU:HD13	1.97	0.46
28:BE:84:PHE:C	28:BE:85:ASN:ND2	2.64	0.46
29:BF:110:LEU:HD21	29:BF:186:ILE:HD11	1.95	0.46
29:BF:123:LEU:CG	29:BF:191:ARG:HD3	2.45	0.46
29:BF:37:VAL:HG12	29:BF:41:LEU:CD2	2.40	0.46
30:BG:123:ASN:HB2	30:BG:126:ASP:CB	2.45	0.46
30:BG:68:PRO:CG	30:BG:90:LEU:HD21	2.43	0.46
31:BH:149:ARG:HB2	31:BH:149:ARG:HE	1.53	0.46
24:BA:1036:G:P	31:BH:59:ARG:NH2	2.89	0.46
34:BM:136:GLU:C	34:BM:137:LYS:HG3	2.36	0.46
35:BN:78:ARG:HE	35:BN:78:ARG:HB3	1.53	0.46
36:BO:127:ALA:HB3	36:BO:130:PHE:HE2	1.80	0.46
29:BF:31:HIS:CE1	36:BO:14:LYS:HE3	2.51	0.46
36:BO:57:THR:O	36:BO:58:THR:CB	2.63	0.46
37:BP:115:MET:O	37:BP:116:GLU:C	2.53	0.46
37:BP:130:LYS:HE3	37:BP:131:ILE:C	2.35	0.46
37:BP:36:ALA:C	37:BP:37:LEU:HG	2.34	0.46
37:BP:59:ARG:HA	37:BP:60:ARG:NE	2.31	0.46
37:BP:72:LYS:HE2	37:BP:96:VAL:CG2	2.46	0.46
37:BP:75:THR:HG23	37:BP:89:ASN:O	2.16	0.46
38:BQ:116:LEU:HD12	38:BQ:118:GLU:HG2	1.97	0.46
38:BQ:20:LEU:O	38:BQ:22:ARG:N	2.49	0.46
25:BB:50:G:P	39:BR:63:THR:OG1	2.74	0.46
41:BT:67:ALA:C	41:BT:71:GLN:NE2	2.70	0.46
42:BU:16:PRO:HD3	42:BU:100:ARG:HH11	1.76	0.46
43:BV:20:VAL:CG2	43:BV:47:VAL:HG11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BW:53:LYS:O	44:BW:81:VAL:HA	2.16	0.46
46:BY:39:VAL:HA	46:BY:44:PHE:CE1	2.50	0.46
47:BZ:50:ASN:C	47:BZ:62:LEU:HB3	2.36	0.46
47:BZ:74:ARG:HH11	47:BZ:75:LEU:CD1	2.29	0.46
3:AD:64:A:C4	3:AD:65:G:C8	3.04	0.46
26:BC:102:LYS:HE3	26:BC:107:TRP:CB	2.46	0.46
26:BC:167:LYS:CG	26:BC:168:THR:N	2.75	0.46
26:BC:200:LYS:NZ	26:BC:204:ALA:CB	2.77	0.46
24:BA:1583:A:H4'	24:BA:1583:A:OP1	2.15	0.46
1:AA:1163:C:H2'	1:AA:1164:G:C5'	2.46	0.46
1:AA:1170:A:N7	1:AA:1171:G:C5	2.84	0.46
24:BA:2182:G:N2	24:BA:2183:C:C2	2.84	0.46
16:AQ:9:LYS:HD3	16:AQ:9:LYS:O	2.16	0.46
2:A1:52:U:O2'	6:AG:51:PRO:HD3	2.16	0.45
1:AA:101:A:C5	1:AA:102:G:N7	2.84	0.45
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.16	0.45
1:AA:1060:C:C4'	12:AM:52:GLY:HA2	2.45	0.45
1:AA:1084:G:N3	1:AA:1085:U:H5	2.14	0.45
1:AA:1118:C:O4'	1:AA:1179:A:H1'	2.16	0.45
1:AA:1210:C:H4'	1:AA:1214:C:H42	1.81	0.45
1:AA:1220:G:O2'	1:AA:1221:G:H5'	2.16	0.45
1:AA:1307:U:C4	1:AA:1308:U:C5	3.04	0.45
1:AA:1357:A:C5	1:AA:1358:U:O4	2.67	0.45
1:AA:1435:G:N1	1:AA:1436:U:O4	2.49	0.45
1:AA:1449:C:C2'	1:AA:1450:U:O5'	2.62	0.45
1:AA:1517:G:N1	1:AA:1518:A:N3	2.64	0.45
1:AA:1405:G:H1'	1:AA:1518:A:O2'	2.15	0.45
1:AA:1513:A:C2	1:AA:1523:G:C6	3.03	0.45
1:AA:15:G:N3	1:AA:15:G:H2'	2.31	0.45
1:AA:307:C:C5'	1:AA:308:C:OP2	2.64	0.45
1:AA:319:G:H2'	1:AA:320:C:C5'	2.46	0.45
1:AA:320:C:O2'	1:AA:321:A:C5'	2.65	0.45
1:AA:62:U:H5''	1:AA:385:C:O2'	2.16	0.45
1:AA:404:U:H5'	6:AG:122:ARG:CD	2.45	0.45
1:AA:41:G:C2'	1:AA:42:G:C8	2.87	0.45
1:AA:46:G:H2'	1:AA:366:C:N4	2.30	0.45
1:AA:515:G:H3'	1:AA:516:U:C6	2.51	0.45
1:AA:564:C:C4	1:AA:565:U:C4	3.03	0.45
1:AA:687:A:H2'	1:AA:701:C:N4	2.30	0.45
1:AA:689:C:OP2	13:AN:55:LYS:NZ	2.49	0.45
1:AA:737:A:OP1	8:AI:92:LYS:N	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:737:A:H2'	1:AA:738:C:C6	2.51	0.45
1:AA:880:C:O2'	1:AA:881:G:H5'	2.16	0.45
1:AA:888:G:H3'	1:AA:889:A:C8	2.50	0.45
1:AA:917:G:H2'	1:AA:918:A:H8	1.81	0.45
1:AA:999:U:H6	1:AA:999:U:O5'	1.99	0.45
3:AB:19:G:HO2'	3:AB:57:G:N2	2.13	0.45
4:AE:157:ARG:HG2	4:AE:158:LEU:HD21	1.98	0.45
4:AE:15:VAL:HG21	4:AE:209:ARG:CB	2.42	0.45
4:AE:164:VAL:CG2	4:AE:165:VAL:N	2.77	0.45
4:AE:168:THR:HG21	4:AE:192:SER:HA	1.96	0.45
4:AE:32:ILE:HD12	4:AE:190:THR:CG2	2.46	0.45
4:AE:83:MET:HB2	4:AE:234:PRO:CG	2.45	0.45
4:AE:73:THR:HG22	4:AE:95:GLN:N	2.31	0.45
5:AF:185:GLY:O	5:AF:199:LYS:HA	2.16	0.45
5:AF:30:ARG:NH1	5:AF:31:HIS:HB2	2.31	0.45
6:AG:165:MET:SD	6:AG:168:ARG:NH1	2.89	0.45
6:AG:61:LYS:HA	6:AG:203:VAL:CG1	2.46	0.45
6:AG:61:LYS:HG2	6:AG:203:VAL:HG13	1.97	0.45
6:AG:85:LYS:O	6:AG:86:LYS:O	2.34	0.45
7:AH:41:VAL:HG21	7:AH:113:ALA:CB	2.45	0.45
9:AJ:139:GLU:CD	9:AJ:139:GLU:H	2.20	0.45
9:AJ:17:VAL:O	9:AJ:18:TYR:CD1	2.69	0.45
10:AK:123:GLU:CD	10:AK:124:ALA:H	2.13	0.45
10:AK:126:LYS:NZ	10:AK:127:LEU:CB	2.78	0.45
10:AK:14:ARG:HD2	10:AK:14:ARG:C	2.35	0.45
10:AK:63:LEU:HD23	10:AK:63:LEU:C	2.36	0.45
10:AK:6:ILE:HD11	10:AK:85:ARG:HD3	1.98	0.45
1:AA:1341:U:O2'	11:AL:126:SER:O	2.29	0.45
11:AL:6:GLY:HA3	11:AL:84:ALA:N	2.32	0.45
12:AM:8:LEU:HG	12:AM:19:SER:HB3	1.98	0.45
13:AN:85:ARG:HD3	13:AN:112:THR:H	1.80	0.45
13:AN:90:GLY:C	13:AN:92:GLU:N	2.67	0.45
14:AO:103:GLY:CA	14:AO:107:ALA:O	2.64	0.45
14:AO:22:SER:C	14:AO:24:VAL:N	2.70	0.45
15:AP:59:TYR:CG	15:AP:60:VAL:N	2.84	0.45
16:AQ:29:ARG:HD2	16:AQ:42:ILE:HD11	1.98	0.45
17:AR:75:PRO:HA	17:AR:78:TYR:CG	2.50	0.45
18:AS:34:GLU:OE1	18:AS:35:LYS:O	2.33	0.45
18:AS:19:ILE:HD11	18:AS:39:TYR:HB3	1.97	0.45
19:AT:34:LYS:HD2	19:AT:35:VAL:N	2.30	0.45
22:AW:81:LYS:O	22:AW:82:SER:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:28:MET:O	48:B1:32:PHE:CD1	2.69	0.45
49:B2:40:THR:O	49:B2:44:ARG:CG	2.64	0.45
50:B3:39:CYS:C	50:B3:40:HIS:ND1	2.69	0.45
50:B3:6:HIS:CE1	50:B3:55:ARG:CD	2.99	0.45
50:B3:62:ARG:O	50:B3:63:TYR:C	2.54	0.45
52:B5:25:LYS:O	52:B5:26:ASN:CG	2.54	0.45
54:B7:17:THR:C	54:B7:19:SER:H	2.19	0.45
24:BA:1000:A:C5	24:BA:1001:A:C2	3.04	0.45
24:BA:1071:G:N2	24:BA:1090:U:C4	2.83	0.45
24:BA:1122:G:N2	24:BA:1123:C:C6	2.84	0.45
24:BA:1137:G:H2'	24:BA:1138:G:O4'	2.15	0.45
24:BA:1144:G:C2'	24:BA:1145:C:C6	2.83	0.45
24:BA:1174:A:N6	24:BA:1177:A:C5	2.82	0.45
24:BA:1191:G:C6	24:BA:1192:G:C5	3.04	0.45
24:BA:1221:C:N4	24:BA:1229:G:O6	2.49	0.45
24:BA:1221:C:C2'	24:BA:1222:C:O5'	2.63	0.45
24:BA:1342:A:C8	24:BA:1601:G:O6	2.69	0.45
24:BA:1397:U:H2'	24:BA:1397:U:O2	2.15	0.45
24:BA:1343:G:N2	24:BA:1405:U:C6	2.85	0.45
24:BA:1434:A:C2	24:BA:1435:G:C8	3.04	0.45
24:BA:1449:A:C2	24:BA:1449(A):G:C4	3.05	0.45
24:BA:1466:G:O4'	24:BA:1545(A):A:H2	1.97	0.45
24:BA:1534:G:H1'	24:BA:1536:A:H62	1.80	0.45
24:BA:1534:G:N3	24:BA:1536:A:N7	2.63	0.45
24:BA:1630:G:N1	24:BA:1637:A:C6	2.84	0.45
24:BA:172:C:C4	24:BA:173:G:N7	2.84	0.45
24:BA:1746:G:C3'	24:BA:1746:G:OP2	2.60	0.45
24:BA:1791:A:H2'	24:BA:1792:G:O4'	2.16	0.45
24:BA:1799:G:H1	27:BD:157:ARG:CZ	2.28	0.45
24:BA:1826:G:C6	24:BA:1827:C:C5	3.04	0.45
24:BA:1850:G:C5	24:BA:1851:U:C5	3.04	0.45
24:BA:1853:A:C2	24:BA:2087:G:N3	2.84	0.45
24:BA:1904:G:O2'	24:BA:1905:C:H5'	2.16	0.45
24:BA:1927:A:H2'	24:BA:1928:A:O4'	2.16	0.45
24:BA:1964:G:C6	24:BA:1967:C:N4	2.78	0.45
24:BA:1980:G:C6	24:BA:1982:C:C4	3.04	0.45
24:BA:2014:A:C2	24:BA:2613:U:C2	3.05	0.45
24:BA:2249:U:O4	24:BA:2253:G:OP2	2.34	0.45
24:BA:2278:A:H62	47:BZ:14:ARG:CB	2.23	0.45
24:BA:2278:A:C6	24:BA:2279:G:C5	3.04	0.45
24:BA:2305:A:C3'	24:BA:2306:C:C5'	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2356:C:C2'	24:BA:2357:U:O5'	2.64	0.45
24:BA:2415:G:C4	24:BA:2416:C:C5	3.04	0.45
24:BA:2548:G:C6	24:BA:2549:G:C5	3.04	0.45
24:BA:2692:C:C2'	24:BA:2847:U:O2'	2.64	0.45
24:BA:2825:C:N4	24:BA:2826:A:H62	2.15	0.45
24:BA:2887:U:C2	24:BA:2888:C:C6	3.04	0.45
24:BA:332:A:C4	24:BA:335:C:C5	3.04	0.45
24:BA:270(A):A:C8	24:BA:370:G:O4'	2.65	0.45
24:BA:395:U:H6	24:BA:395:U:OP2	1.99	0.45
24:BA:447:A:C8	24:BA:454:A:N6	2.84	0.45
24:BA:463:G:O2'	24:BA:464:U:C5	2.67	0.45
24:BA:535:C:H4'	41:BT:53:ARG:CD	2.32	0.45
24:BA:546:C:H2'	24:BA:547:A:C4	2.51	0.45
24:BA:656:G:O2'	24:BA:657:U:C5'	2.63	0.45
24:BA:658:C:C2	24:BA:659:C:C5	3.04	0.45
24:BA:727:A:O2'	24:BA:728:G:OP1	2.24	0.45
24:BA:756:C:C4	24:BA:757:U:C6	3.04	0.45
24:BA:91:A:H3'	24:BA:92:G:H8	1.75	0.45
24:BA:930:U:H6	24:BA:930:U:H3'	1.80	0.45
25:BB:100:G:C4	25:BB:101:A:C8	3.04	0.45
25:BB:71:C:O2	25:BB:72:G:C4'	2.64	0.45
24:BA:2227:A:H5"	27:BD:260:ARG:HB3	1.97	0.45
28:BE:119:ARG:HE	28:BE:120:TRP:HB3	1.81	0.45
24:BA:1658:C:OP1	28:BE:134:ILE:CG1	2.64	0.45
28:BE:176:ILE:CG2	28:BE:176:ILE:O	2.64	0.45
29:BF:119:ARG:CZ	29:BF:119:ARG:HB2	2.40	0.45
30:BG:105:LYS:O	30:BG:109:VAL:CG2	2.53	0.45
31:BH:8:PRO:N	31:BH:51:ARG:NH2	2.64	0.45
31:BH:7:LEU:HA	31:BH:52:VAL:CG1	2.46	0.45
31:BH:97:ARG:NH1	31:BH:104:GLU:OE2	2.49	0.45
33:BL:8:VAL:HG23	33:BL:31:GLY:O	2.16	0.45
34:BM:126:PRO:C	34:BM:127:ASP:CG	2.72	0.45
34:BM:15:LEU:CG	34:BM:138:LEU:O	2.48	0.45
34:BM:13:TRP:CD2	34:BM:51:PHE:HB2	2.50	0.45
34:BM:58:ASP:O	34:BM:59:LYS:C	2.52	0.45
35:BN:68:GLU:CA	35:BN:104:ARG:NH1	2.65	0.45
35:BN:56:ASP:O	35:BN:56:ASP:OD1	2.34	0.45
35:BN:37:ASP:H	35:BN:61:VAL:CG2	2.29	0.45
35:BN:63:VAL:HB	35:BN:78:ARG:HG2	1.98	0.45
36:BO:114:ILE:CG1	36:BO:123:LEU:HB2	2.46	0.45
36:BO:124:LYS:NZ	36:BO:141:ALA:HB1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1192:G:OP1	36:BO:18:ARG:NH1	2.48	0.45
36:BO:35:HIS:O	36:BO:36:LYS:NZ	2.49	0.45
36:BO:46:LYS:HZ3	36:BO:50:ARG:CZ	2.29	0.45
38:BQ:90:ARG:HB2	38:BQ:94:TYR:HE2	1.82	0.45
1:AA:1432:G:OP2	40:BS:112:ARG:HB2	2.16	0.45
24:BA:533:G:H5'	41:BT:24:TYR:CD2	2.51	0.45
41:BT:33:ARG:O	41:BT:36:ARG:HG3	2.16	0.45
24:BA:446:G:C8	41:BT:3:ARG:NH2	2.83	0.45
24:BA:1249:U:HO2'	41:BT:6:THR:CG2	2.29	0.45
43:BV:5:ALA:HB3	43:BV:105:VAL:HG13	1.98	0.45
45:BX:85:VAL:HG12	45:BX:85:VAL:O	2.16	0.45
45:BX:86:ARG:HA	45:BX:91:GLU:HB3	1.98	0.45
46:BY:43:GLU:HA	46:BY:46:LYS:NZ	2.31	0.45
46:BY:80:ARG:N	46:BY:80:ARG:HD2	2.31	0.45
47:BZ:22:GLY:C	47:BZ:38:VAL:HG13	2.37	0.45
32:BK:114:LEU:HD13	32:BK:130:TYR:CD2	2.51	0.45
32:BK:139:GLN:O	32:BK:140:LEU:HG	2.16	0.45
3:AD:55:U:C6	3:AD:55:U:H3'	2.51	0.45
3:AD:55:U:O3'	3:AD:57:G:N7	2.48	0.45
3:AD:63:G:H5'	26:BC:53:ARG:HE	1.81	0.45
24:BA:2136:C:N3	24:BA:2137:C:C5	2.83	0.45
26:BC:22:ILE:HD12	26:BC:190:ARG:HH22	1.80	0.45
24:BA:492:A:H2'	24:BA:492:A:N3	2.30	0.45
2:A1:4:U:H6	2:A1:4:U:O5'	1.99	0.45
1:AA:1027:C:N3	1:AA:1028:C:C5	2.84	0.45
1:AA:1084:G:HO2'	1:AA:1085:U:P	2.39	0.45
1:AA:1099:G:N7	1:AA:1100:C:C5	2.85	0.45
1:AA:1205:U:O2'	5:AF:194:GLY:CA	2.64	0.45
1:AA:1250:A:H4'	11:AL:68:GLY:N	2.31	0.45
1:AA:1265:G:C6	1:AA:1271:G:C6	3.03	0.45
1:AA:1149:C:O2'	1:AA:1280:A:N1	2.43	0.45
1:AA:1319:A:N1	1:AA:1361:G:N2	2.63	0.45
1:AA:928:G:H4'	1:AA:1532:U:H5''	1.97	0.45
1:AA:19:C:O2	1:AA:572:A:C2	2.62	0.45
1:AA:225:C:C2'	1:AA:226:G:O5'	2.64	0.45
1:AA:260:G:C4	1:AA:261:U:N3	2.84	0.45
1:AA:301:G:C2	1:AA:302:G:N9	2.85	0.45
1:AA:440:A:C8	1:AA:442:C:C5	3.04	0.45
1:AA:39:G:N7	1:AA:547:A:C8	2.85	0.45
1:AA:674:G:O2'	1:AA:675:A:H5'	2.16	0.45
1:AA:689:C:O3'	1:AA:705:U:O2'	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:706:A:C2'	1:AA:707:C:O5'	2.64	0.45
1:AA:774:G:H3'	1:AA:775:G:H8	1.81	0.45
1:AA:80:G:C3'	1:AA:81:G:H8	2.29	0.45
1:AA:814:A:O2'	1:AA:815:A:H5'	2.16	0.45
1:AA:830:G:C6	1:AA:831:U:C5	3.04	0.45
1:AA:888:G:C2	1:AA:909:A:N6	2.80	0.45
1:AA:961:U:C2'	1:AA:962:C:C5'	2.94	0.45
3:AB:25:C:O2	3:AB:25:C:H2'	2.17	0.45
3:AB:58:A:C6	3:AB:61:C:H1'	2.50	0.45
3:AC:29:G:O2'	3:AC:30:G:H5'	2.17	0.45
4:AE:136:VAL:CA	4:AE:139:LYS:HZ2	2.30	0.45
4:AE:50:GLU:CG	4:AE:200:ILE:HB	2.47	0.45
5:AF:156:ARG:O	5:AF:157:ILE:C	2.54	0.45
6:AG:31:CYS:O	6:AG:33:MET:CE	2.59	0.45
7:AH:59:GLY:O	7:AH:62:ALA:N	2.50	0.45
9:AJ:47:CYS:O	9:AJ:50:ILE:HB	2.17	0.45
9:AJ:22:LEU:HG	9:AJ:63:LYS:HZ2	1.82	0.45
10:AK:49:GLU:O	10:AK:59:LEU:HD23	2.17	0.45
11:AL:26:VAL:HG13	11:AL:63:ILE:HD13	1.98	0.45
11:AL:67:GLY:C	11:AL:73:GLN:NE2	2.69	0.45
14:AO:26:ALA:HA	14:AO:98:TYR:CE2	2.51	0.45
14:AO:69:TYR:HB3	14:AO:99:HIS:HB3	1.96	0.45
14:AO:85:ILE:HD11	14:AO:99:HIS:H	1.73	0.45
15:AP:81:LEU:O	15:AP:84:ILE:CG1	2.64	0.45
16:AQ:4:LYS:HA	16:AQ:7:ILE:HD11	1.98	0.45
17:AR:41:GLU:O	17:AR:44:LYS:HB2	2.15	0.45
17:AR:71:GLN:HA	17:AR:75:PRO:HB3	1.99	0.45
18:AS:21:VAL:HG21	18:AS:59:TRP:CE2	2.47	0.45
19:AT:59:ILE:HD11	19:AT:71:PHE:C	2.36	0.45
19:AT:59:ILE:HD11	19:AT:71:PHE:CA	2.45	0.45
20:AU:31:LEU:N	20:AU:31:LEU:CD1	2.79	0.45
20:AU:59:SER:O	20:AU:60:GLY:C	2.54	0.45
8:AI:50:TYR:CE1	20:AU:81:PHE:CZ	3.04	0.45
49:B2:55:ARG:CA	49:B2:55:ARG:CZ	2.90	0.45
41:BT:27:LEU:HD11	51:B4:12:SER:HB2	1.98	0.45
52:B5:16:CYS:HB3	52:B5:49:HIS:CE1	2.51	0.45
24:BA:242:G:C8	54:B7:4:MET:HG2	2.46	0.45
24:BA:2358:G:N2	54:B7:52:LYS:HZ1	2.14	0.45
55:B8:20:HIS:N	55:B8:20:HIS:ND1	2.65	0.45
24:BA:1059:G:H1'	33:BL:126:MET:HE2	1.96	0.45
24:BA:111:A:C2	24:BA:112:U:C4	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1178:C:N3	24:BA:1179:C:N4	2.63	0.45
24:BA:1223:C:C5	24:BA:1227:A:N6	2.83	0.45
24:BA:1301:A:C2'	24:BA:1302:A:O5'	2.64	0.45
24:BA:1473:G:O6	24:BA:1519:G:C4	2.69	0.45
24:BA:1491:G:N2	24:BA:1493:C:H41	2.13	0.45
24:BA:1546:C:O5'	24:BA:1546:C:H6	1.99	0.45
24:BA:1651:G:O2'	24:BA:1652:A:C1'	2.64	0.45
24:BA:1661:G:C6	24:BA:1662:C:N4	2.84	0.45
24:BA:1703:G:N2	24:BA:1704:G:C1'	2.78	0.45
24:BA:1793:C:N4	24:BA:1794:U:O4	2.49	0.45
24:BA:1907:G:C5	24:BA:1908:C:C5	3.04	0.45
24:BA:1835:G:N3	24:BA:1931:U:C2	2.85	0.45
24:BA:1991:U:C3'	24:BA:1991:U:C6	2.99	0.45
24:BA:2016:U:C1'	51:B4:6:VAL:CG1	2.94	0.45
24:BA:579:G:O2'	24:BA:2019:A:OP1	2.34	0.45
24:BA:2082:A:H2'	24:BA:2082:A:N3	2.31	0.45
24:BA:2225:A:C4'	24:BA:2226:C:H6	2.29	0.45
24:BA:2286:A:N6	52:B5:32:ASN:CA	2.78	0.45
24:BA:2289:G:H5'	24:BA:2384:G:C1'	2.39	0.45
24:BA:2319:G:C4'	24:BA:2320:A:OP1	2.44	0.45
24:BA:2325:G:C5	24:BA:2326:C:C5	3.03	0.45
24:BA:2345:G:N2	24:BA:2382:G:OP2	2.49	0.45
24:BA:2400:G:C2	24:BA:2417:C:C4	3.05	0.45
24:BA:242:G:C2'	24:BA:254:G:N1	2.78	0.45
24:BA:2468:G:H5'	37:BP:120:ILE:HD11	1.99	0.45
24:BA:2459:A:N7	24:BA:2493:U:O4	2.49	0.45
24:BA:2500:U:C5'	24:BA:2500:U:H6	2.29	0.45
24:BA:2516:G:C6	24:BA:2517:C:N4	2.84	0.45
24:BA:2550:G:N1	24:BA:2559:C:N3	2.65	0.45
24:BA:2573:C:C3'	24:BA:2573:C:C6	2.99	0.45
24:BA:270(S):G:C2	24:BA:270(T):G:C8	3.04	0.45
24:BA:2776:A:H1'	24:BA:2778:A:H5''	1.98	0.45
24:BA:287:C:C3'	24:BA:288:C:C5	2.98	0.45
24:BA:297:C:H2'	24:BA:298:G:C8	2.52	0.45
24:BA:458:G:O2'	24:BA:469:G:N1	2.47	0.45
24:BA:459:U:C2'	24:BA:460:A:O5'	2.64	0.45
24:BA:627:A:H2'	24:BA:628:G:C1'	2.42	0.45
24:BA:675:A:N7	24:BA:804:A:N1	2.64	0.45
24:BA:858:U:O3'	24:BA:859:G:O4'	2.34	0.45
24:BA:997:G:H5''	41:BT:92:ARG:CD	2.44	0.45
24:BA:996:A:N3	24:BA:997:G:N7	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:160:ASN:O	29:BF:163:VAL:CB	2.49	0.45
29:BF:170:LEU:HB3	29:BF:171:PRO:HD3	1.98	0.45
29:BF:7:TYR:N	29:BF:20:LEU:HD22	2.29	0.45
29:BF:35:GLU:N	29:BF:38:ARG:HD2	2.31	0.45
29:BF:39:TRP:CG	29:BF:101:LEU:HG	2.52	0.45
29:BF:43:LYS:HE3	29:BF:99:TYR:H	1.81	0.45
30:BG:113:ARG:O	30:BG:114:ILE:CG2	2.62	0.45
30:BG:124:SER:HG	30:BG:133:LEU:HD23	1.78	0.45
30:BG:72:ARG:O	30:BG:73:ALA:HB2	2.16	0.45
30:BG:77:ILE:O	30:BG:78:SER:O	2.33	0.45
30:BG:87:PRO:C	30:BG:88:ILE:HG13	2.35	0.45
30:BG:92:VAL:O	30:BG:92:VAL:HG12	2.15	0.45
31:BH:11:VAL:HG11	31:BH:17:VAL:CG2	2.46	0.45
31:BH:119:GLU:H	31:BH:121:ILE:HG22	1.81	0.45
32:BK:5:LEU:C	32:BK:8:PRO:HD2	2.37	0.45
32:BK:8:PRO:N	32:BK:14:ASP:HA	2.30	0.45
33:BL:106:GLU:HA	33:BL:109:LYS:CD	2.47	0.45
34:BM:15:LEU:HD21	34:BM:137:LYS:HB3	1.94	0.45
34:BM:23:LEU:HB2	34:BM:24:GLY:H	1.44	0.45
34:BM:91:LEU:HA	34:BM:95:PRO:N	2.32	0.45
35:BN:107:ARG:C	35:BN:109:LYS:N	2.65	0.45
35:BN:18:LYS:NZ	35:BN:44:LYS:CD	2.79	0.45
35:BN:34:THR:O	35:BN:37:ASP:HB2	2.16	0.45
35:BN:78:ARG:N	35:BN:78:ARG:NE	2.65	0.45
36:BO:125:VAL:O	36:BO:130:PHE:HZ	1.98	0.45
36:BO:130:PHE:C	36:BO:131:SER:O	2.53	0.45
36:BO:97:PRO:O	36:BO:98:GLU:C	2.53	0.45
37:BP:6:ARG:CD	37:BP:6:ARG:C	2.82	0.45
37:BP:75:THR:C	37:BP:77:LYS:HD2	2.36	0.45
24:BA:2275:C:O2'	37:BP:84:GLY:O	2.33	0.45
37:BP:6:ARG:NH2	37:BP:8:LYS:C	2.64	0.45
38:BQ:5:LYS:CE	38:BQ:5:LYS:CA	2.92	0.45
39:BR:9:ARG:CA	39:BR:12:PHE:CD2	2.99	0.45
24:BA:532:A:N6	41:BT:45:TYR:OH	2.25	0.45
41:BT:52:ARG:C	41:BT:54:LYS:H	2.19	0.45
42:BU:40:LEU:N	42:BU:54:GLY:CA	2.79	0.45
42:BU:56:SER:O	42:BU:57:VAL:HG23	2.16	0.45
42:BU:79:VAL:CG1	42:BU:81:TYR:HD1	2.29	0.45
43:BV:10:VAL:CG2	43:BV:12:ILE:HD11	2.46	0.45
45:BX:74:PRO:HD2	45:BX:76:CYS:O	2.15	0.45
45:BX:81:LYS:CG	45:BX:96:ILE:HG23	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:62:GLY:N	46:BY:177:PRO:HA	2.31	0.45
32:BK:114:LEU:H	32:BK:131:LYS:HZ1	1.63	0.45
3:AD:18:G:O6	3:AD:57:G:N1	2.49	0.45
26:BC:61:THR:HA	26:BC:163:PHE:CE2	2.51	0.45
26:BC:8:ARG:NE	26:BC:12:GLU:OE2	2.49	0.45
26:BC:97:GLU:CG	26:BC:100:ILE:HD12	2.46	0.45
14:AO:126:LYS:CD	14:AO:128:ALA:HB3	2.45	0.45
1:AA:800:G:P	1:AA:800:G:H8	2.39	0.45
24:BA:2191:G:N2	24:BA:2192:G:C4	2.83	0.45
12:AM:36:GLY:O	12:AM:38:ILE:N	2.49	0.45
50:B3:49:PHE:N	50:B3:49:PHE:CD1	2.84	0.45
1:AA:1055:A:O2'	1:AA:1056:U:OP1	2.26	0.45
1:AA:1068:G:O6	1:AA:1108:G:N3	2.49	0.45
1:AA:1114:C:O2'	16:AQ:60:SER:CB	2.65	0.45
1:AA:1176:A:C6	1:AA:1177:G:C6	3.04	0.45
1:AA:1118:C:O4'	1:AA:1179:A:C1'	2.65	0.45
1:AA:1186:G:H4'	11:AL:110:GLU:HG3	1.99	0.45
1:AA:1188:A:N3	1:AA:1188:A:H2'	2.30	0.45
1:AA:1191:A:N3	1:AA:1191:A:C2'	2.79	0.45
1:AA:1287:A:N6	1:AA:1371:G:C4'	2.77	0.45
1:AA:1317:C:C2	16:AQ:16:PHE:CZ	3.04	0.45
1:AA:134:A:H2'	1:AA:135:C:O5'	2.16	0.45
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.81	0.45
1:AA:1429:C:H2'	1:AA:1430:C:C5	2.50	0.45
1:AA:1466:C:C2'	1:AA:1467:G:C8	2.98	0.45
1:AA:1523:G:C6	1:AA:1524:C:C4	3.04	0.45
1:AA:255:G:C1'	19:AT:16:GLN:HB2	2.46	0.45
1:AA:27:G:H8	1:AA:27:G:OP2	1.98	0.45
1:AA:307:C:N4	1:AA:308:C:N4	2.58	0.45
1:AA:415:A:H2'	1:AA:416:G:O4'	2.16	0.45
1:AA:416:G:O6	1:AA:428:G:O6	2.34	0.45
1:AA:450:G:OP1	1:AA:452:A:P	2.74	0.45
1:AA:483:C:C3'	1:AA:483:C:C6	3.00	0.45
1:AA:752:G:O2'	1:AA:753:A:P	2.75	0.45
1:AA:828:A:O2'	1:AA:829:G:O5'	2.27	0.45
1:AA:918:A:O2'	1:AA:919:A:P	2.74	0.45
3:AC:46:G:OP2	3:AC:46:G:H8	1.98	0.45
3:AC:53:G:C2	3:AC:62:C:N3	2.84	0.45
3:AC:74:C:H2'	3:AC:75:C:C4'	2.47	0.45
4:AE:179:LYS:O	4:AE:180:LEU:C	2.53	0.45
4:AE:186:ALA:O	4:AE:201:ILE:CD1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:223:ILE:HA	4:AE:226:ARG:CD	2.46	0.45
4:AE:19:HIS:C	4:AE:39:ILE:HD11	2.37	0.45
5:AF:182:ILE:CD1	5:AF:203:PHE:HD1	2.29	0.45
6:AG:121:VAL:HG11	6:AG:136:PRO:CA	2.45	0.45
6:AG:13:ARG:CA	6:AG:32:ALA:HB2	2.47	0.45
9:AJ:20:ASP:OD1	9:AJ:23:VAL:HG23	2.17	0.45
9:AJ:38:LEU:O	9:AJ:42:ILE:HG13	2.16	0.45
10:AK:28:ALA:HA	10:AK:59:LEU:HD12	1.98	0.45
11:AL:20:ARG:O	11:AL:21:PRO:C	2.53	0.45
11:AL:67:GLY:O	11:AL:68:GLY:C	2.54	0.45
11:AL:69:GLY:O	11:AL:70:LYS:C	2.55	0.45
11:AL:75:ASP:O	11:AL:78:LYS:N	2.50	0.45
11:AL:7:THR:HG21	11:AL:9:ARG:NH1	2.30	0.45
14:AO:86:ARG:HD3	14:AO:101:VAL:CG1	2.47	0.45
14:AO:48:PRO:CD	14:AO:49:ASN:H	2.29	0.45
15:AP:87:TYR:C	15:AP:87:TYR:HD2	2.20	0.45
16:AQ:28:GLY:O	16:AQ:29:ARG:C	2.54	0.45
17:AR:21:ASP:OD2	17:AR:24:SER:HB3	2.17	0.45
19:AT:101:ARG:HG2	19:AT:102:GLY:H	1.82	0.45
21:AV:36:ARG:HB2	21:AV:71:LEU:CB	2.45	0.45
22:AW:40:ALA:HB2	22:AW:55:ILE:HG22	1.95	0.45
22:AW:63:ILE:HG23	22:AW:72:LEU:CD1	2.47	0.45
23:AX:23:PRO:C	23:AX:25:LYS:N	2.69	0.45
49:B2:15:TYR:O	49:B2:20:LYS:HD2	2.16	0.45
49:B2:23:LEU:HD12	49:B2:50:VAL:HG21	1.97	0.45
50:B3:59:PHE:O	50:B3:61:ARG:N	2.49	0.45
51:B4:34:PRO:CG	51:B4:40:LYS:HZ1	2.29	0.45
52:B5:27:LYS:CE	52:B5:29:ASN:HD21	2.29	0.45
54:B7:15:LYS:HZ1	54:B7:64:TYR:HD2	1.63	0.45
24:BA:1194:A:C6	24:BA:1195:G:C5	3.05	0.45
24:BA:1202:C:N4	24:BA:1241:A:N7	2.65	0.45
24:BA:1361:G:C4	24:BA:1362:C:C5	3.04	0.45
24:BA:1453:A:C8	38:BQ:73:VAL:HG11	2.51	0.45
24:BA:1556:C:O2'	24:BA:1557:C:H5'	2.16	0.45
24:BA:1410:G:C2	24:BA:1593:G:C2	3.04	0.45
24:BA:163:U:C5	24:BA:171:G:H1'	2.51	0.45
24:BA:1657:C:C2'	24:BA:1658:C:O4'	2.62	0.45
24:BA:1667:G:O3'	35:BN:7:TYR:CZ	2.68	0.45
24:BA:174:C:C4	24:BA:175:G:N7	2.85	0.45
24:BA:1827:C:H5'	24:BA:1971:A:H4'	1.97	0.45
24:BA:199:A:N1	24:BA:2433:A:N3	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1999:C:O2'	24:BA:2000:G:H5'	2.17	0.45
24:BA:2073:C:C3'	24:BA:2074:U:H5'	2.46	0.45
24:BA:2218:G:C4	24:BA:2219:G:C8	3.04	0.45
24:BA:2246:G:N3	24:BA:2247:A:C8	2.84	0.45
24:BA:2345:G:N2	24:BA:2381:C:H3'	2.31	0.45
24:BA:2346:A:H5'	24:BA:2383:G:C4'	2.46	0.45
24:BA:2414:G:N1	24:BA:2415:G:N7	2.65	0.45
24:BA:2432:A:N7	24:BA:2433:A:C6	2.85	0.45
24:BA:2491:U:H6	24:BA:2492:U:P	2.33	0.45
24:BA:249:C:C2'	24:BA:250:G:OP2	2.65	0.45
24:BA:2510:C:H5''	24:BA:2511:U:OP2	2.17	0.45
24:BA:2633:G:H8	24:BA:2633:G:O5'	1.98	0.45
24:BA:2659:G:C1'	24:BA:2661:G:OP2	2.64	0.45
24:BA:2677:G:HO2'	24:BA:2678:C:H5'	1.73	0.45
24:BA:2689:U:H4'	24:BA:2690:C:O5'	2.17	0.45
24:BA:25:U:C2	24:BA:26:G:N7	2.84	0.45
24:BA:270(M):U:O3'	24:BA:270(N):G:H4'	2.16	0.45
24:BA:2523:G:O2'	24:BA:2765:A:N7	2.43	0.45
24:BA:281:G:H2'	24:BA:282:A:OP2	2.16	0.45
24:BA:2876:G:N3	24:BA:2877:G:C8	2.84	0.45
24:BA:2892:A:H2'	24:BA:2893:G:C1'	2.45	0.45
24:BA:2629:A:N6	24:BA:2895:U:O2	2.50	0.45
24:BA:311:A:H2	24:BA:331:A:H5''	1.80	0.45
24:BA:450:G:H3'	24:BA:451:C:C5'	2.47	0.45
24:BA:511:U:C5	24:BA:512:G:C4	3.03	0.45
24:BA:58:G:H2'	24:BA:73:A:C2	2.44	0.45
24:BA:596:G:C6	24:BA:597:U:N3	2.85	0.45
24:BA:610:C:H2'	24:BA:611:C:H6	1.80	0.45
24:BA:668:G:C6	24:BA:670:A:C5	3.04	0.45
24:BA:699:A:N6	24:BA:734:A:C8	2.85	0.45
24:BA:749:C:C2	24:BA:1618:A:C5	3.04	0.45
24:BA:826:U:N3	24:BA:828:U:H6	2.15	0.45
24:BA:972:G:C8	24:BA:973:A:C8	3.04	0.45
24:BA:994:C:H5''	24:BA:995:C:OP1	2.17	0.45
25:BB:24:G:C5'	25:BB:25:A:H5'	2.45	0.45
25:BB:30:C:C5	25:BB:31:C:C6	3.05	0.45
25:BB:37:C:O2	25:BB:49:C:H5'	2.16	0.45
25:BB:99:A:C2	25:BB:100:G:N9	2.85	0.45
27:BD:106:ILE:HD12	27:BD:192:THR:HG23	1.93	0.45
27:BD:200:ASP:O	27:BD:201:HIS:C	2.54	0.45
28:BE:163:GLU:OE1	28:BE:163:GLU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:27:LEU:HD13	28:BE:76:ARG:HH12	1.81	0.45
28:BE:40:GLU:CA	28:BE:40:GLU:OE2	2.64	0.45
29:BF:34:TRP:CD1	36:BO:8:PRO:O	2.69	0.45
29:BF:93:LYS:O	29:BF:94:PRO:C	2.54	0.45
30:BG:103:LEU:HD11	30:BG:107:LEU:HD23	1.98	0.45
30:BG:128:ARG:NH1	30:BG:162:THR:HA	2.28	0.45
30:BG:18:GLU:HB3	30:BG:19:LEU:HD12	1.98	0.45
31:BH:42:ARG:CA	31:BH:42:ARG:NE	2.71	0.45
32:BK:33:ARG:HB3	32:BK:35:LEU:HD21	1.97	0.45
33:BL:117:THR:O	33:BL:118:THR:CB	2.64	0.45
33:BL:67:PHE:CD2	33:BL:68:VAL:HG22	2.50	0.45
34:BM:99:LEU:CD1	34:BM:103:VAL:HG11	2.46	0.45
34:BM:109:LYS:HE3	34:BM:111:PRO:CD	2.46	0.45
34:BM:23:LEU:HD23	34:BM:61:ARG:O	2.12	0.45
35:BN:112:MET:HA	35:BN:115:VAL:HG23	1.98	0.45
35:BN:59:LYS:CB	35:BN:85:VAL:HA	2.46	0.45
37:BP:126:PRO:HD2	37:BP:127:ILE:HD11	1.98	0.45
37:BP:130:LYS:HZ1	37:BP:132:VAL:CG2	2.29	0.45
24:BA:2820:A:OP1	38:BQ:5:LYS:HG2	2.16	0.45
39:BR:39:ILE:HD11	39:BR:76:LYS:CE	2.46	0.45
39:BR:49:VAL:HG21	39:BR:80:LEU:CG	2.47	0.45
40:BS:103:ARG:O	40:BS:105:LEU:C	2.55	0.45
40:BS:111:ARG:HA	40:BS:114:LEU:CG	2.47	0.45
40:BS:58:ASN:CA	40:BS:61:PHE:CE2	2.99	0.45
40:BS:72:VAL:HG12	40:BS:73:GLU:N	2.31	0.45
40:BS:7:ILE:O	40:BS:10:VAL:N	2.49	0.45
41:BT:11:ARG:CG	41:BT:12:ARG:N	2.80	0.45
41:BT:88:ILE:N	42:BU:52:VAL:CG2	2.71	0.45
44:BW:83:VAL:HG21	44:BW:86:GLY:HA2	1.97	0.45
45:BX:1:MET:HE2	45:BX:67:LEU:HD23	1.99	0.45
45:BX:31:LEU:CB	45:BX:32:PRO:CD	2.88	0.45
45:BX:49:VAL:HG23	45:BX:52:SER:H	1.82	0.45
45:BX:54:LYS:O	45:BX:56:PRO:HD3	2.16	0.45
45:BX:6:HIS:CG	45:BX:33:LYS:NZ	2.84	0.45
46:BY:138:GLU:O	46:BY:139:VAL:HG22	2.16	0.45
46:BY:163:LEU:HD12	46:BY:163:LEU:N	2.30	0.45
46:BY:45:ASP:O	46:BY:47:VAL:N	2.49	0.45
46:BY:66:SER:O	46:BY:67:LEU:HD23	2.17	0.45
24:BA:2129:C:OP2	26:BC:6:ARG:HG2	2.17	0.45
24:BA:2150:U:C2	24:BA:2151:G:C8	3.05	0.45
26:BC:93:TYR:CD1	26:BC:107:TRP:HZ2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:189:ILE:HD13	26:BC:224:ILE:HD13	1.96	0.45
24:BA:2129:C:P	26:BC:6:ARG:HG3	2.56	0.45
26:BC:87:GLU:HG3	26:BC:94:VAL:CB	2.46	0.45
26:BC:90:GLY:C	26:BC:153:ILE:HG22	2.36	0.45
3:AD:28:G:H2'	3:AD:29:G:C8	2.35	0.45
24:BA:273(E):U:N1	24:BA:363(B):G:N2	2.63	0.45
24:BA:363(B):G:O2'	24:BA:363(C):G:O5'	2.31	0.45
1:AA:1018:C:H2'	1:AA:1019:C:O4'	2.16	0.45
24:BA:489:G:C4	24:BA:491:G:C8	3.04	0.45
24:BA:2183:C:C2'	24:BA:2183:C:O2	2.64	0.45
1:AA:1537:U:H2'	1:AA:1538:C:H6	1.81	0.45
2:A1:29:G:C3'	2:A1:30:U:C5'	2.92	0.45
2:A1:35:U:H5	2:A1:35:U:OP2	2.00	0.45
1:AA:1003:G:C8	1:AA:1003:G:O5'	2.67	0.45
1:AA:102:G:N3	1:AA:151:A:H2	2.14	0.45
1:AA:1061:G:N2	1:AA:1197:G:C4	2.83	0.45
1:AA:1076:C:C2	1:AA:1077:G:C8	3.04	0.45
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.16	0.45
1:AA:1231:G:H2'	1:AA:1232:U:C6	2.50	0.45
1:AA:1343:G:H5'	11:AL:124:GLN:HA	1.97	0.45
1:AA:1353:G:OP2	23:AX:3:LYS:NZ	2.47	0.45
1:AA:136:C:H4'	18:AS:65:GLN:OE1	2.16	0.45
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.46	0.45
1:AA:1477:C:N4	1:AA:1478:C:N4	2.64	0.45
1:AA:1496:C:H6	1:AA:1496:C:O5'	2.00	0.45
1:AA:791:G:N2	1:AA:1497:G:H4'	2.31	0.45
1:AA:151:A:O2'	1:AA:152:A:H5'	2.16	0.45
1:AA:251:G:O4'	1:AA:252:U:C5	2.70	0.45
1:AA:261:U:H5	22:AW:79:ARG:NH1	2.15	0.45
1:AA:299:G:C2	1:AA:300:A:C6	3.05	0.45
1:AA:50:A:N1	1:AA:361:G:O4'	2.50	0.45
1:AA:539:A:C6	1:AA:540:G:C6	3.04	0.45
1:AA:564:C:OP1	14:AO:15:ARG:NE	2.50	0.45
1:AA:710:G:C2	1:AA:711:G:C8	3.04	0.45
1:AA:737:A:O2'	1:AA:738:C:C5'	2.65	0.45
1:AA:833:U:C2'	1:AA:834:C:H6	2.30	0.45
1:AA:902:G:H2'	1:AA:903:G:C8	2.50	0.45
1:AA:934:C:N4	1:AA:939:G:N1	2.64	0.45
1:AA:966:G:O2'	1:AA:967:C:O5'	2.34	0.45
1:AA:99:C:H2'	1:AA:101:A:C8	2.52	0.45
3:AC:19:G:H5''	3:AC:20:U:O4	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:34:G:OP1	3:AC:34:G:H8	2.00	0.45
3:AC:9:A:H4'	3:AC:10:G:OP2	2.16	0.45
4:AE:109:SER:O	4:AE:111:ARG:N	2.49	0.45
4:AE:115:LEU:HB2	4:AE:145:LEU:HD21	1.97	0.45
4:AE:28:PHE:HE1	4:AE:31:TYR:O	1.99	0.45
4:AE:56:ARG:NH1	4:AE:56:ARG:CB	2.54	0.45
4:AE:92:TYR:C	4:AE:92:TYR:CD2	2.87	0.45
5:AF:15:THR:CB	5:AF:181:ASN:HA	2.46	0.45
5:AF:186:PHE:CD1	5:AF:187:ALA:N	2.85	0.45
5:AF:21:ARG:HB2	5:AF:58:GLU:CG	2.40	0.45
5:AF:30:ARG:HG2	5:AF:30:ARG:HH11	1.81	0.45
6:AG:187:ARG:CG	6:AG:188:LEU:N	2.79	0.45
6:AG:24:GLU:C	6:AG:24:GLU:OE2	2.55	0.45
7:AH:107:ARG:NH1	7:AH:107:ARG:HB2	2.29	0.45
7:AH:5:ASP:HB3	7:AH:6:PHE:H	1.61	0.45
7:AH:79:GLU:HA	7:AH:91:LEU:HD23	1.98	0.45
9:AJ:5:ARG:HB3	9:AJ:5:ARG:CZ	2.45	0.45
10:AK:75:ARG:HA	10:AK:76:PRO:HD3	1.70	0.45
11:AL:46:ALA:HB1	11:AL:77:ILE:HG22	1.97	0.45
12:AM:33:GLN:O	12:AM:34:VAL:HB	2.17	0.45
12:AM:70:ARG:HA	12:AM:70:ARG:HD3	1.79	0.45
14:AO:79:GLU:H	14:AO:79:GLU:HG3	1.60	0.45
14:AO:88:GLY:O	14:AO:99:HIS:CD2	2.70	0.45
16:AQ:23:ARG:CA	16:AQ:33:VAL:HG21	2.46	0.45
1:AA:1048:G:OP1	16:AQ:3:ARG:HD2	2.17	0.45
1:AA:750:G:O2'	17:AR:23:GLY:O	2.35	0.45
17:AR:24:SER:O	17:AR:25:THR:C	2.55	0.45
18:AS:29:ASP:O	18:AS:30:GLY:O	2.35	0.45
18:AS:1:MET:CB	18:AS:3:LYS:HZ1	2.29	0.45
21:AV:24:ALA:C	21:AV:26:GLY:N	2.70	0.45
22:AW:47:GLY:O	22:AW:49:ALA:N	2.45	0.45
22:AW:91:LEU:C	22:AW:93:GLU:H	2.20	0.45
48:B1:20:VAL:HB	48:B1:55:LEU:HD23	1.98	0.45
49:B2:23:LEU:CA	49:B2:28:LEU:CD1	2.90	0.45
49:B2:30:ARG:O	49:B2:32:GLN:N	2.49	0.45
49:B2:40:THR:N	49:B2:44:ARG:HG3	2.31	0.45
50:B3:40:HIS:HB3	50:B3:41:PRO:HD2	1.95	0.45
50:B3:7:PRO:HG2	50:B3:60:GLN:CD	2.36	0.45
51:B4:34:PRO:CD	51:B4:40:LYS:HD2	2.29	0.45
52:B5:17:LYS:HZ3	52:B5:50:ARG:HA	1.81	0.45
53:B6:19:ARG:O	53:B6:20:ALA:C	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:23:VAL:HA	54:B7:47:LYS:O	2.16	0.45
54:B7:26:LYS:CD	54:B7:45:GLY:H	2.29	0.45
54:B7:54:GLU:O	54:B7:55:ALA:C	2.55	0.45
24:BA:1069:A:N7	24:BA:1073:A:N7	2.65	0.45
24:BA:107:C:C5'	24:BA:293:U:O4'	2.65	0.45
24:BA:1101:U:O2	24:BA:1101:U:H2'	2.16	0.45
24:BA:1128:A:N1	24:BA:1129:A:C6	2.84	0.45
24:BA:1131:G:C2	24:BA:1132:A:C5	3.05	0.45
24:BA:1139:G:H5'	34:BM:24:GLY:HA3	1.98	0.45
24:BA:1210:A:H5''	24:BA:1211:U:O5'	2.16	0.45
24:BA:1264:G:C6	24:BA:1265:A:C6	3.03	0.45
24:BA:1325:G:H21	43:BV:86:LEU:CD1	2.18	0.45
24:BA:1342:A:C8	24:BA:1342:A:O5'	2.69	0.45
24:BA:1339:G:C1'	24:BA:1393:A:C2	2.99	0.45
24:BA:1529:A:H2'	24:BA:1530:G:O4'	2.17	0.45
24:BA:154:G:H1	24:BA:173:G:H1	1.61	0.45
24:BA:1781:C:C2'	24:BA:1782:C:OP2	2.65	0.45
24:BA:1783:A:C5'	24:BA:1784:A:OP1	2.57	0.45
24:BA:48:G:C2	24:BA:178:G:C6	3.05	0.45
24:BA:1804:C:C2'	24:BA:1805:U:O5'	2.64	0.45
24:BA:1799:G:C5	24:BA:1819:A:N7	2.84	0.45
24:BA:1829:A:N3	24:BA:1830:C:O4'	2.50	0.45
24:BA:2025:C:C2	24:BA:2026:C:C5	3.04	0.45
24:BA:2027:G:N2	24:BA:2028:U:H1'	2.32	0.45
24:BA:2092:U:OP1	24:BA:2199:A:O2'	2.30	0.45
24:BA:2194:G:C3'	24:BA:2195:C:H5	2.30	0.45
24:BA:2198:A:H2	24:BA:2225:A:H62	1.64	0.45
24:BA:2205:C:H2'	24:BA:2206:C:C6	2.52	0.45
24:BA:2239:G:C3'	24:BA:2240:C:C5'	2.87	0.45
24:BA:223:A:C2	24:BA:407:G:N3	2.85	0.45
24:BA:2244:U:O2	24:BA:2244:U:H2'	2.16	0.45
24:BA:2260:C:H2'	24:BA:2261:C:H6	1.80	0.45
24:BA:2309:A:N6	30:BG:80:PHE:CE1	2.85	0.45
24:BA:2323:G:N2	24:BA:2324:C:N3	2.64	0.45
24:BA:2346:A:OP2	24:BA:2381:C:O2'	2.32	0.45
24:BA:22:C:H2'	24:BA:23:G:O5'	2.17	0.45
24:BA:2431:U:OP2	24:BA:2432:A:P	2.75	0.45
24:BA:2439:A:N3	24:BA:2439:A:H2'	2.32	0.45
24:BA:2482:G:N7	24:BA:2483:C:C5	2.84	0.45
24:BA:2484:G:O2'	24:BA:2485:G:H5'	2.17	0.45
24:BA:2032:G:H22	24:BA:2499:C:N4	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2533:A:H5''	24:BA:2665:A:C5'	2.36	0.45
24:BA:2553:G:N7	24:BA:2583:G:C4'	2.67	0.45
24:BA:2606:C:C2	24:BA:2607:G:N7	2.85	0.45
24:BA:2588:G:C6	24:BA:2607:G:O6	2.70	0.45
24:BA:2745:C:N4	24:BA:2746:U:O4	2.49	0.45
24:BA:2756:U:O2'	24:BA:2757:A:H5''	2.16	0.45
24:BA:2776:A:N7	24:BA:2781:A:C6	2.84	0.45
24:BA:280:C:C5	24:BA:283:A:N7	2.84	0.45
24:BA:2834:G:C4	24:BA:2879:C:N4	2.85	0.45
24:BA:2836:U:C6	24:BA:2883:A:N6	2.84	0.45
24:BA:308:G:N2	24:BA:309:G:O2'	2.50	0.45
24:BA:323:G:OP2	24:BA:340:A:N1	2.49	0.45
24:BA:348:G:H2'	24:BA:349:G:C8	2.48	0.45
24:BA:383:U:O2	24:BA:385:C:N4	2.43	0.45
24:BA:416:C:C3'	24:BA:416:C:C6	2.99	0.45
24:BA:573:G:H2'	24:BA:574:C:H3'	1.97	0.45
24:BA:662:G:H2'	24:BA:663:G:C8	2.51	0.45
24:BA:686:G:O6	53:B6:12:ARG:NE	2.50	0.45
24:BA:692:C:HO2'	24:BA:693:C:H5'	1.82	0.45
24:BA:727:A:H61	24:BA:729:G:H1	1.63	0.45
24:BA:836:G:C5	24:BA:837:C:C5	3.05	0.45
24:BA:955:C:N4	24:BA:956:G:C2	2.85	0.45
25:BB:104:A:H3'	25:BB:105:G:O4'	2.16	0.45
25:BB:49:C:C2	25:BB:50:G:C8	3.05	0.45
27:BD:208:LYS:HE2	27:BD:211:ARG:HG2	1.98	0.45
27:BD:257:LEU:HD23	27:BD:257:LEU:HA	1.61	0.45
27:BD:260:ARG:HG3	27:BD:260:ARG:HH11	1.78	0.45
27:BD:181:GLU:CG	27:BD:268:ARG:NE	2.79	0.45
27:BD:61:LEU:HB3	27:BD:62:TYR:H	1.44	0.45
27:BD:89:SER:OG	27:BD:158:ALA:CB	2.56	0.45
24:BA:2052:G:C8	28:BE:150:VAL:HG23	2.52	0.45
28:BE:103:ASP:HA	28:BE:170:LEU:HD21	1.98	0.45
28:BE:8:LYS:HD3	28:BE:9:VAL:CB	2.47	0.45
29:BF:3:GLU:O	29:BF:3:GLU:CD	2.54	0.45
29:BF:80:ALA:O	29:BF:83:PHE:HD2	2.00	0.45
30:BG:42:GLY:O	30:BG:43:LEU:O	2.34	0.45
30:BG:44:GLY:HA3	30:BG:88:ILE:CG2	2.46	0.45
30:BG:56:ALA:O	30:BG:68:PRO:HD2	2.17	0.45
30:BG:95:ARG:HG3	30:BG:95:ARG:O	2.16	0.45
31:BH:105:LEU:CD1	31:BH:113:VAL:HG11	2.45	0.45
31:BH:60:ARG:HD2	31:BH:61:HIS:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:85:LYS:N	31:BH:133:VAL:O	2.49	0.45
32:BK:4:ILE:HD11	32:BK:39:ALA:HA	1.97	0.45
33:BL:72:PRO:CD	33:BL:111:LYS:HE3	2.46	0.45
33:BL:117:THR:O	33:BL:118:THR:CG2	2.64	0.45
34:BM:99:LEU:O	34:BM:100:GLU:C	2.53	0.45
34:BM:23:LEU:HD23	34:BM:23:LEU:H	1.82	0.45
34:BM:34:LEU:HD21	34:BM:120:LEU:CD1	2.46	0.45
35:BN:18:LYS:CE	35:BN:44:LYS:CD	2.82	0.45
35:BN:47:ILE:HD12	35:BN:52:VAL:HG13	1.95	0.45
36:BO:123:LEU:H	36:BO:138:LEU:HB2	1.82	0.45
37:BP:27:VAL:HG12	37:BP:102:VAL:HG21	1.99	0.45
37:BP:51:ARG:HD3	37:BP:52:VAL:HG23	1.97	0.45
39:BR:57:LYS:HD3	39:BR:57:LYS:C	2.37	0.45
39:BR:57:LYS:NZ	39:BR:62:LYS:CG	2.79	0.45
40:BS:63:VAL:C	40:BS:64:ARG:NH1	2.69	0.45
35:BN:122:LEU:HA	40:BS:71:GLY:CA	2.47	0.45
24:BA:2848:G:C8	40:BS:99:LEU:HD13	2.47	0.45
41:BT:30:LYS:CD	41:BT:30:LYS:H	2.27	0.45
41:BT:52:ARG:CB	41:BT:55:ARG:HD3	2.46	0.45
41:BT:49:HIS:CA	41:BT:52:ARG:CZ	2.85	0.45
42:BU:5:VAL:O	42:BU:6:LYS:HB2	2.17	0.45
24:BA:564:C:OP1	42:BU:80:GLN:HB3	2.16	0.45
43:BV:14:PRO:O	43:BV:16:LYS:NZ	2.49	0.45
44:BW:18:TYR:CZ	44:BW:96:ILE:HG12	2.51	0.45
44:BW:84:ALA:H	44:BW:85:PRO:CD	2.29	0.45
46:BY:145:GLU:OE2	46:BY:180:VAL:HG11	2.17	0.45
47:BZ:32:ARG:O	47:BZ:35:ASN:CB	2.58	0.45
24:BA:856:C:O4'	47:BZ:69:PHE:HD1	1.99	0.45
32:BK:58:LEU:HA	32:BK:61:ARG:HG3	1.99	0.45
32:BK:96:ASP:O	32:BK:97:ILE:C	2.54	0.45
24:BA:2175:C:N3	24:BA:2176:A:N7	2.64	0.45
26:BC:114:VAL:O	26:BC:114:VAL:HG23	2.17	0.45
24:BA:182:A:O2'	24:BA:183:C:C5'	2.64	0.45
24:BA:1511:A:C2'	24:BA:1512:G:C5'	2.88	0.45
3:AD:39:U:H2'	3:AD:40:C:H6	1.74	0.45
18:AS:68:ASP:C	18:AS:70:ALA:N	2.69	0.45
24:BA:131:G:C2	24:BA:132:G:N7	2.84	0.45
28:BE:15:PHE:O	28:BE:16:ARG:O	2.33	0.45
31:BH:20:ALA:HB3	31:BH:21:PRO:CD	2.46	0.45
1:AA:1108:G:N7	1:AA:1109:C:C5	2.85	0.45
1:AA:1181:G:O3'	1:AA:1184:G:C5'	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1213:A:N6	1:AA:1215:G:N2	2.65	0.45
1:AA:1263:C:H2'	1:AA:1264:C:C5	2.50	0.45
1:AA:1296:C:C5	1:AA:1297:C:N4	2.84	0.45
1:AA:1305:G:OP1	23:AX:2:GLY:N	2.50	0.45
1:AA:1316:G:C4	1:AA:1318:A:OP2	2.70	0.45
1:AA:1343:G:C5	1:AA:1344:C:C4	3.04	0.45
1:AA:1251:A:H4'	1:AA:1370:G:H4'	1.99	0.45
1:AA:1477:C:C4	1:AA:1478:C:C5	3.03	0.45
1:AA:1484:C:H2'	1:AA:1485:U:C5'	2.47	0.45
1:AA:1533:C:H2'	1:AA:1534:A:O5'	2.15	0.45
1:AA:183:G:H2'	1:AA:184:G:O4'	2.17	0.45
1:AA:275:G:C2	1:AA:276:G:C8	3.04	0.45
1:AA:282:A:H2'	1:AA:282:A:N3	2.29	0.45
1:AA:321:A:H2'	1:AA:322:C:H6	1.81	0.45
1:AA:425:G:C2	1:AA:426:G:C8	3.05	0.45
1:AA:468:A:N6	1:AA:474:G:C6	2.84	0.45
1:AA:523:A:O2'	1:AA:525:C:H5	1.98	0.45
1:AA:571:U:H5'	1:AA:572:A:OP2	2.17	0.45
1:AA:61:G:C8	1:AA:62:U:C5	3.05	0.45
1:AA:640:A:C5	1:AA:641:U:C6	3.04	0.45
1:AA:714:G:H1'	1:AA:777:A:C5	2.51	0.45
1:AA:792:A:O2'	1:AA:793:U:H5''	2.16	0.45
1:AA:18:C:N4	1:AA:918:A:H61	2.13	0.45
1:AA:954:G:H2'	1:AA:955:U:H6	1.80	0.45
1:AA:995:C:C2'	16:AQ:4:LYS:HE2	2.46	0.45
4:AE:58:ILE:HB	4:AE:221:LEU:HG	1.98	0.45
5:AF:172:ARG:CB	5:AF:172:ARG:CZ	2.93	0.45
6:AG:114:ARG:CG	6:AG:114:ARG:NH1	2.76	0.45
6:AG:119:GLN:CG	6:AG:123:HIS:CE1	3.00	0.45
7:AH:35:GLY:N	7:AH:112:LEU:CD1	2.79	0.45
7:AH:114:GLY:C	7:AH:115:VAL:HG13	2.36	0.45
7:AH:145:LYS:HA	7:AH:148:VAL:HG21	1.94	0.45
7:AH:61:TYR:O	7:AH:65:ASN:N	2.38	0.45
8:AI:47:ARG:HA	8:AI:57:GLN:HA	1.97	0.45
9:AJ:147:ALA:C	9:AJ:149:ARG:H	2.19	0.45
10:AK:102:ARG:HE	10:AK:105:ARG:HD2	1.81	0.45
10:AK:110:ALA:HB3	10:AK:121:ASP:OD1	2.16	0.45
10:AK:137:VAL:HG12	10:AK:138:TRP:H	1.82	0.45
10:AK:19:VAL:CG1	10:AK:21:LYS:HE3	2.46	0.45
10:AK:68:ARG:O	10:AK:69:ARG:HB3	2.16	0.45
10:AK:6:ILE:HD12	10:AK:85:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:119:ALA:O	11:AL:120:ARG:CB	2.64	0.45
11:AL:49:PRO:CB	11:AL:82:ALA:HB2	2.42	0.45
14:AO:36:VAL:HA	14:AO:82:VAL:HA	1.99	0.45
15:AP:40:ASN:HB3	15:AP:43:THR:HG23	1.98	0.45
15:AP:48:LEU:HD13	15:AP:53:VAL:CG2	2.40	0.45
17:AR:60:VAL:HA	17:AR:63:ARG:CG	2.47	0.45
17:AR:65:ARG:HB3	17:AR:65:ARG:CZ	2.46	0.45
17:AR:79:ARG:HB3	17:AR:79:ARG:NH1	2.31	0.45
13:AN:84:VAL:CG2	20:AU:88:LYS:NZ	2.80	0.45
21:AV:18:LYS:CE	21:AV:22:LEU:HD12	2.46	0.45
22:AW:43:LEU:HA	22:AW:43:LEU:HD23	1.73	0.45
48:B1:64:ARG:HD3	48:B1:64:ARG:HA	1.67	0.45
49:B2:31:LEU:HD12	49:B2:32:GLN:CD	2.37	0.45
49:B2:41:PRO:HA	49:B2:44:ARG:CZ	2.47	0.45
24:BA:1263:U:C3'	51:B4:10:LYS:HD3	2.46	0.45
51:B4:15:ARG:O	51:B4:17:ASP:N	2.50	0.45
51:B4:4:HIS:O	51:B4:4:HIS:CD2	2.69	0.45
54:B7:22:VAL:O	54:B7:23:VAL:HG23	2.15	0.45
54:B7:52:LYS:HB2	54:B7:52:LYS:NZ	2.31	0.45
24:BA:1076:C:H1'	33:BL:90:LYS:HE2	1.98	0.45
24:BA:1196:C:H1'	24:BA:1226:G:H1'	1.98	0.45
24:BA:1203:G:N7	24:BA:1240:U:C4	2.85	0.45
24:BA:1275:A:N7	24:BA:1296:G:C1'	2.76	0.45
24:BA:1298:C:OP2	24:BA:1639:U:OP2	2.35	0.45
24:BA:1363:C:C2	24:BA:1369:G:C6	3.04	0.45
24:BA:1388:G:C4	24:BA:1389:G:C8	3.05	0.45
24:BA:1407:C:OP2	24:BA:1407:C:H3'	2.16	0.45
24:BA:1459:G:N3	24:BA:1459:G:H2'	2.32	0.45
24:BA:1471:A:OP2	24:BA:1472:A:C2	2.66	0.45
24:BA:1536:A:C2	24:BA:1537:C:C2	3.05	0.45
24:BA:1438:U:N3	24:BA:1553:A:N6	2.61	0.45
24:BA:14:A:C8	24:BA:15:G:C8	3.05	0.45
24:BA:749:C:C5	24:BA:1618:A:N6	2.85	0.45
24:BA:1670:C:H2'	24:BA:1671:U:C5'	2.46	0.45
24:BA:1686:C:O2	24:BA:1686:C:H2'	2.15	0.45
24:BA:1686:C:N4	24:BA:1703:G:O6	2.49	0.45
24:BA:172:C:C5	24:BA:173:G:N7	2.84	0.45
24:BA:1789:A:H4'	27:BD:222:ARG:NH1	2.31	0.45
24:BA:1919:A:H2'	24:BA:1920:C:H5'	1.98	0.45
24:BA:1957:C:C2'	24:BA:1958:C:O5'	2.65	0.45
24:BA:2040:C:N3	24:BA:2041:U:C5	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2051:A:N3	24:BA:2052:G:N7	2.65	0.45
24:BA:2080:G:O2'	24:BA:2081:C:C5'	2.64	0.45
24:BA:2208:U:C2	24:BA:2217:G:C6	3.05	0.45
24:BA:2482:G:C2	24:BA:2483:C:C1'	3.00	0.45
24:BA:2532:G:C8	24:BA:2533:A:N7	2.85	0.45
24:BA:2572:A:C5'	24:BA:2573:C:OP1	2.65	0.45
24:BA:2582:G:C5'	24:BA:2582:G:C8	2.98	0.45
24:BA:270:A:C5	24:BA:270(A):A:C8	3.05	0.45
24:BA:2729:G:H2'	24:BA:2730:C:H5'	1.97	0.45
24:BA:2822:G:H5''	28:BE:159:HIS:CE1	2.52	0.45
24:BA:285:C:C4	24:BA:286:C:N4	2.84	0.45
24:BA:317:G:C2	24:BA:318:C:C6	3.05	0.45
24:BA:365:C:C2	24:BA:366:C:C5	3.05	0.45
24:BA:236:C:C4'	24:BA:431:U:H1'	2.46	0.45
24:BA:447:A:O2'	24:BA:448:U:H5'	2.17	0.45
24:BA:457:A:H4'	24:BA:459:U:O2	2.17	0.45
24:BA:481:G:N2	24:BA:507:A:C4	2.85	0.45
24:BA:507:A:H4'	24:BA:509:C:C6	2.51	0.45
24:BA:50:U:C6	24:BA:50:U:C3'	2.99	0.45
24:BA:539:G:C2	24:BA:540:G:N7	2.84	0.45
24:BA:565:C:O2'	24:BA:1253:A:C2	2.70	0.45
24:BA:573:G:C2'	24:BA:574:C:H5''	2.46	0.45
24:BA:624:C:OP2	36:BO:105:LEU:HD22	2.16	0.45
24:BA:672:C:O2	24:BA:673:C:C5	2.70	0.45
24:BA:705:A:N7	24:BA:727:A:N7	2.64	0.45
24:BA:744:G:H2'	24:BA:745:G:H8	1.78	0.45
24:BA:76:C:C2'	24:BA:76:C:O2	2.64	0.45
24:BA:806:C:H2'	24:BA:807:U:C5	2.51	0.45
24:BA:835:A:N6	24:BA:836:G:C6	2.85	0.45
24:BA:974:G:H5'	24:BA:1187:G:O2'	2.17	0.45
25:BB:43:C:C2	25:BB:45:A:C8	3.05	0.45
25:BB:66:A:H2	25:BB:108:C:C6	2.33	0.45
25:BB:9:G:C2	25:BB:10:C:C5	3.04	0.45
27:BD:118:VAL:O	27:BD:119:ALA:CB	2.64	0.45
27:BD:117:VAL:CG1	27:BD:129:ASN:N	2.79	0.45
27:BD:160:GLY:N	27:BD:196:VAL:HG21	2.32	0.45
24:BA:2226:C:N3	27:BD:262:ARG:NH2	2.64	0.45
28:BE:100:GLU:N	28:BE:172:VAL:HG21	2.23	0.45
29:BF:131:GLY:O	29:BF:134:GLY:N	2.49	0.45
24:BA:674:G:O3'	29:BF:74:ARG:NH2	2.50	0.45
30:BG:21:ARG:NH1	30:BG:27:ASN:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:33:ARG:C	30:BG:33:ARG:HH21	2.20	0.45
31:BH:105:LEU:HB2	31:BH:113:VAL:CG1	2.33	0.45
31:BH:156:ALA:O	31:BH:157:TYR:CB	2.65	0.45
31:BH:45:VAL:O	31:BH:46:GLU:OE1	2.34	0.45
31:BH:87:LEU:O	31:BH:131:VAL:C	2.55	0.45
33:BL:103:GLN:O	33:BL:106:GLU:HG3	2.16	0.45
33:BL:27:LEU:HD11	33:BL:57:ILE:CD1	2.35	0.45
34:BM:14:VAL:CG1	34:BM:138:LEU:HB3	2.29	0.45
34:BM:16:ILE:HG22	34:BM:21:LYS:HZ2	1.80	0.45
34:BM:23:LEU:CG	34:BM:63:THR:HG23	2.46	0.45
35:BN:38:VAL:C	35:BN:39:ILE:HG23	2.36	0.45
36:BO:137:LYS:CE	36:BO:137:LYS:CA	2.92	0.45
36:BO:36:LYS:HD3	36:BO:36:LYS:HA	1.51	0.45
36:BO:46:LYS:NZ	36:BO:50:ARG:HH11	2.14	0.45
37:BP:104:PHE:C	37:BP:105:GLU:CD	2.75	0.45
24:BA:955:C:OP1	37:BP:17:LEU:HG	2.15	0.45
37:BP:38:GLU:N	37:BP:39:PRO:CD	2.76	0.45
37:BP:59:ARG:NH2	46:BY:177:PRO:CB	2.78	0.45
38:BQ:93:GLY:C	38:BQ:95:THR:N	2.68	0.45
40:BS:26:ASP:OD2	40:BS:26:ASP:C	2.54	0.45
40:BS:38:ASN:O	40:BS:39:ARG:HG2	2.17	0.45
40:BS:62:THR:HG22	40:BS:79:HIS:N	2.28	0.45
41:BT:36:ARG:O	41:BT:39:LEU:HB2	2.17	0.45
43:BV:6:ILE:HD11	43:BV:104:THR:HA	1.97	0.45
24:BA:519:U:C4'	43:BV:75:TYR:HB2	2.47	0.45
24:BA:85:G:P	45:BX:28:LYS:HE3	2.57	0.45
46:BY:44:PHE:O	46:BY:47:VAL:HB	2.16	0.45
47:BZ:37:LEU:HG	47:BZ:38:VAL:H	1.81	0.45
47:BZ:40:GLN:OE1	47:BZ:44:ARG:N	2.50	0.45
3:AD:47:U:H2'	3:AD:47:U:O2	2.16	0.45
24:BA:2121:G:C1'	26:BC:167:LYS:HZ3	2.22	0.45
26:BC:222:VAL:HG13	26:BC:223:ARG:O	2.17	0.45
26:BC:75:LEU:HD21	26:BC:99:ILE:CG2	2.45	0.45
26:BC:99:ILE:HG12	26:BC:107:TRP:CZ3	2.51	0.45
1:AA:164:U:C2'	1:AA:165:C:C6	2.99	0.45
1:AA:343:U:C2'	1:AA:344:A:O5'	2.64	0.45
24:BA:1416:G:N2	24:BA:1581:G:C6	2.81	0.45
24:BA:1231:G:H2'	24:BA:1232:G:H8	1.82	0.45
1:AA:1079:G:N2	1:AA:1080:A:C2	2.84	0.45
1:AA:1107:C:P	5:AF:172:ARG:NH1	2.89	0.45
1:AA:1126:U:OP1	1:AA:1126:U:O4'	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1213:A:H2'	1:AA:1215:G:N7	2.31	0.45
1:AA:1239:A:H8	1:AA:1241:G:H1'	1.82	0.45
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.16	0.45
1:AA:976:G:C4	1:AA:1363:A:N6	2.84	0.45
1:AA:141:A:O4'	1:AA:182:U:H1'	2.17	0.45
1:AA:1468:A:C8	1:AA:1469:G:H8	2.33	0.45
1:AA:1476:G:C6	1:AA:1477:C:N4	2.85	0.45
1:AA:1509:C:O2'	1:AA:1510:U:C5'	2.56	0.45
1:AA:278:G:N2	1:AA:279:A:H62	2.15	0.45
1:AA:322:C:N3	1:AA:323:U:O2	2.49	0.45
1:AA:407:G:C2	1:AA:436:C:O2	2.70	0.45
1:AA:456:C:C2	1:AA:477:G:C2	3.05	0.45
1:AA:577:G:N2	1:AA:578:C:C1'	2.79	0.45
1:AA:637:G:C6	1:AA:638:G:N7	2.85	0.45
1:AA:723:U:O4'	2:A1:29:G:O2'	2.22	0.45
1:AA:747:C:H2'	1:AA:748:C:O4'	2.17	0.45
1:AA:747:C:H6	1:AA:747:C:O5'	1.99	0.45
1:AA:787:A:C2'	1:AA:788:U:H5'	2.35	0.45
1:AA:829:G:N2	1:AA:858:G:O2'	2.49	0.45
1:AA:873:A:C4'	1:AA:874:G:OP2	2.65	0.45
1:AA:938:A:O2'	1:AA:939:G:C5'	2.58	0.45
1:AA:953:G:C2'	1:AA:954:G:O5'	2.65	0.45
3:AB:74:C:H5	24:BA:2556:C:N1	2.13	0.45
3:AB:76:A:H4'	24:BA:2507:C:C5'	2.46	0.45
3:AC:3:C:C2'	3:AC:4:C:O5'	2.65	0.45
3:AC:59:U:C4	3:AC:60:U:C4	3.04	0.45
4:AE:46:LYS:CE	4:AE:49:GLU:HG2	2.47	0.45
6:AG:98:GLU:O	6:AG:103:ASN:CB	2.63	0.45
6:AG:125:HIS:CB	6:AG:152:SER:HB2	2.36	0.45
6:AG:196:LEU:HA	6:AG:197:PRO:HD2	1.86	0.45
9:AJ:21:VAL:HG23	9:AJ:22:LEU:HD22	1.99	0.45
9:AJ:26:PHE:CD2	9:AJ:62:PHE:HE1	2.34	0.45
9:AJ:29:LYS:NZ	9:AJ:98:SER:O	2.48	0.45
10:AK:111:ILE:HD12	10:AK:111:ILE:H	1.76	0.45
10:AK:88:LYS:O	10:AK:90:GLY:N	2.50	0.45
11:AL:101:PHE:O	11:AL:102:LEU:CD2	2.65	0.45
11:AL:63:ILE:N	11:AL:63:ILE:CD1	2.64	0.45
12:AM:55:LYS:O	12:AM:55:LYS:CG	2.65	0.45
13:AN:85:ARG:CD	13:AN:113:PRO:HD2	2.46	0.45
14:AO:34:ARG:O	14:AO:60:LEU:HB2	2.17	0.45
17:AR:60:VAL:O	17:AR:63:ARG:CG	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:66:PRO:HG2	18:AS:71:ARG:NH1	2.32	0.45
19:AT:3:LYS:O	19:AT:4:LYS:C	2.54	0.45
19:AT:75:ARG:NH1	19:AT:76:LEU:O	2.48	0.45
19:AT:7:THR:HG22	19:AT:56:VAL:CG1	2.47	0.45
20:AU:43:PHE:O	20:AU:51:LEU:CD1	2.52	0.45
22:AW:23:ARG:HA	22:AW:26:ASN:CG	2.37	0.45
22:AW:40:ALA:O	22:AW:43:LEU:N	2.49	0.45
24:BA:1128:A:N3	24:BA:1128:A:C2'	2.78	0.45
24:BA:1006:C:C6	24:BA:1137:G:N2	2.85	0.45
24:BA:119:A:O2'	24:BA:120:U:O5'	2.35	0.45
24:BA:1342:A:N9	24:BA:1345:C:N4	2.64	0.45
24:BA:1464:C:H2'	24:BA:1465:G:C8	2.44	0.45
24:BA:147:U:C4	24:BA:148:C:N4	2.85	0.45
24:BA:1522:G:H2'	24:BA:1523:U:C6	2.51	0.45
24:BA:1615:C:N4	24:BA:1617:C:O2	2.50	0.45
24:BA:1638:C:OP1	24:BA:2710:C:O2'	2.33	0.45
24:BA:1691:C:O2	24:BA:1691:C:H2'	2.15	0.45
24:BA:1743:G:C4	24:BA:1746:G:C8	3.04	0.45
24:BA:1681:G:H1'	24:BA:1763:G:H5'	1.99	0.45
24:BA:1808:U:C2	24:BA:1810:A:C2	3.05	0.45
24:BA:1958:C:C2'	24:BA:1959:G:O5'	2.64	0.45
24:BA:2016:U:H1'	51:B4:6:VAL:HG13	1.98	0.45
24:BA:2016:U:O4'	51:B4:6:VAL:CG1	2.61	0.45
24:BA:2210:G:C6	27:BD:70:TRP:CE2	3.05	0.45
24:BA:2263:C:H2'	24:BA:2264:C:H5'	1.98	0.45
24:BA:2284:C:O2'	24:BA:2325:G:C2	2.70	0.45
24:BA:2363:C:O2'	24:BA:2364:C:H5'	2.16	0.45
24:BA:2394:C:O2	24:BA:2394:C:C2'	2.64	0.45
24:BA:2395:C:C5	24:BA:2396:G:N7	2.84	0.45
24:BA:2397:G:H2'	24:BA:2398:U:C6	2.51	0.45
24:BA:2464:C:C2	24:BA:2465:C:C6	3.05	0.45
24:BA:2550:G:N2	24:BA:2559:C:N1	2.65	0.45
24:BA:2547:U:C6	24:BA:2566:A:C2	3.05	0.45
24:BA:270(B):A:C1'	24:BA:270(C):C:C5	2.92	0.45
24:BA:2742:C:O2	24:BA:2742:C:C2'	2.64	0.45
24:BA:2780:G:H2'	24:BA:2781:A:H5''	1.96	0.45
24:BA:2788:C:O5'	24:BA:2788:C:H6	1.99	0.45
24:BA:2866:U:O2	24:BA:2868:A:H1'	2.16	0.45
24:BA:303:U:O5'	24:BA:303:U:H6	2.00	0.45
24:BA:366:C:H6	24:BA:366:C:O5'	2.00	0.45
24:BA:371:A:C8	24:BA:424:G:OP1	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:386:G:N3	24:BA:386:G:C2'	2.72	0.45
24:BA:416:C:N4	24:BA:417:C:N4	2.64	0.45
24:BA:499:U:H2'	24:BA:500:G:O4'	2.17	0.45
24:BA:514:A:HO2'	24:BA:515:A:H5'	1.81	0.45
24:BA:28:A:O2'	24:BA:583:G:H5'	2.16	0.45
24:BA:624:C:C4'	24:BA:624:C:C6	3.00	0.45
24:BA:75:G:O3'	48:B1:50:ARG:NE	2.41	0.45
24:BA:804:A:OP2	36:BO:39:LYS:HB3	2.17	0.45
24:BA:811:U:C3'	24:BA:811:U:H6	2.28	0.45
24:BA:817:C:H3'	24:BA:818:G:C8	2.51	0.45
24:BA:862:G:H21	25:BB:99:A:H2	1.62	0.45
24:BA:960:A:C8	24:BA:960:A:O5'	2.70	0.45
24:BA:974:G:C2'	24:BA:1186:G:C4	3.00	0.45
24:BA:996:A:N6	24:BA:1160:G:N1	2.65	0.45
27:BD:145:VAL:HG13	27:BD:190:TYR:O	2.16	0.45
24:BA:1566:A:N3	27:BD:215:LEU:HD22	2.31	0.45
27:BD:252:TRP:HB3	27:BD:253:GLN:H	1.41	0.45
1:AA:776:G:O6	27:BD:276:LYS:OXT	2.34	0.45
27:BD:39:LYS:HB3	27:BD:62:TYR:HD2	1.81	0.45
27:BD:85:ASP:C	27:BD:87:ASN:HD22	2.20	0.45
28:BE:187:ALA:O	28:BE:189:PRO:N	2.49	0.45
24:BA:2787:C:C5'	28:BE:64:LYS:HB2	2.46	0.45
28:BE:2:LYS:CD	28:BE:83:ASP:CB	2.94	0.45
29:BF:12:LEU:HD22	29:BF:142:TRP:CZ3	2.50	0.45
29:BF:123:LEU:CD1	29:BF:193:VAL:HG22	2.27	0.45
29:BF:7:TYR:OH	29:BF:23:ASP:O	2.34	0.45
24:BA:2060:A:OP2	29:BF:72:ARG:HA	2.16	0.45
31:BH:117:PRO:HB2	31:BH:121:ILE:HG23	1.98	0.45
31:BH:151:ILE:O	31:BH:152:ARG:O	2.34	0.45
31:BH:7:LEU:HD12	31:BH:51:ARG:HD2	1.98	0.45
31:BH:77:LYS:HE3	31:BH:77:LYS:HB3	1.69	0.45
32:BK:32:PRO:O	32:BK:33:ARG:C	2.54	0.45
32:BK:37:VAL:HG12	32:BK:43:ASN:OD1	2.17	0.45
33:BL:24:GLY:HA2	33:BL:34:ILE:CD1	2.46	0.45
34:BM:117:PHE:CA	34:BM:120:LEU:HB3	2.43	0.45
34:BM:53:VAL:HG22	34:BM:121:LYS:HB2	1.99	0.45
34:BM:128:HIS:O	34:BM:131:GLN:N	2.50	0.45
34:BM:16:ILE:N	34:BM:16:ILE:CD1	2.71	0.45
35:BN:38:VAL:HG12	35:BN:59:LYS:O	2.17	0.45
35:BN:47:ILE:HG12	35:BN:47:ILE:O	2.16	0.45
35:BN:11:ALA:HB3	35:BN:97:ARG:NH2	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:97:ARG:NH1	35:BN:98:VAL:O	2.42	0.45
36:BO:72:PRO:O	36:BO:111:ARG:CZ	2.64	0.45
36:BO:52:GLU:N	36:BO:55:ARG:HG3	2.31	0.45
37:BP:48:GLU:HA	37:BP:51:ARG:HG3	1.98	0.45
38:BQ:13:HIS:CD2	38:BQ:15:SER:HG	2.35	0.45
39:BR:17:ARG:HA	39:BR:20:ARG:HG3	1.99	0.45
40:BS:32:TYR:C	40:BS:33:LYS:HG2	2.35	0.45
41:BT:102:GLU:HA	41:BT:103:PRO:HD2	1.56	0.45
24:BA:995:C:P	41:BT:53:ARG:HH22	2.39	0.45
41:BT:98:LEU:HA	41:BT:101:ARG:CG	2.45	0.45
43:BV:34:ASN:CA	43:BV:37:ARG:HE	2.16	0.45
44:BW:65:ARG:HG2	44:BW:65:ARG:H	1.45	0.45
44:BW:85:PRO:C	44:BW:87:GLN:NE2	2.70	0.45
46:BY:119:GLU:O	46:BY:119:GLU:HG3	2.15	0.45
46:BY:125:LEU:HD22	46:BY:127:LYS:HE2	1.97	0.45
47:BZ:50:ASN:HB2	47:BZ:81:VAL:HG23	1.98	0.45
24:BA:2135:A:O5'	24:BA:2136:C:C5	2.70	0.45
26:BC:73:ARG:HB3	26:BC:93:TYR:CE2	2.52	0.45
24:BA:182:A:H1'	24:BA:433:C:O2'	2.17	0.45
24:BA:1483:G:C4	24:BA:1507:A:C2	3.04	0.45
24:BA:1509:C:OP1	24:BA:1510:A:C8	2.57	0.45
24:BA:1870:C:C2'	24:BA:1870:C:O2	2.62	0.45
1:AA:513:C:N3	1:AA:514:C:C5	2.84	0.45
2:A1:26:G:C6	2:A1:27:A:N6	2.85	0.45
1:AA:1002:G:H2'	1:AA:1002:G:N3	2.31	0.45
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.35	0.45
1:AA:1145:C:O2'	1:AA:1146:A:P	2.74	0.45
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.32	0.45
1:AA:1338:G:H2'	1:AA:1339:A:H8	1.76	0.45
1:AA:1466:C:C3'	1:AA:1467:G:H8	2.30	0.45
1:AA:1466:C:H2'	1:AA:1467:G:N9	2.30	0.45
1:AA:1466:C:H3'	1:AA:1467:G:H8	1.80	0.45
1:AA:1488:G:N3	1:AA:1489:G:C8	2.84	0.45
1:AA:1498:U:O2'	1:AA:1499:A:C5'	2.65	0.45
1:AA:22:G:O2'	1:AA:23:C:O4'	2.34	0.45
1:AA:448:A:OP2	1:AA:485:G:N2	2.50	0.45
1:AA:509:A:C6	1:AA:510:A:N1	2.85	0.45
1:AA:524:G:O2'	1:AA:525:C:C5'	2.64	0.45
1:AA:544:G:C2	1:AA:545:C:C2	3.05	0.45
1:AA:665:A:O4'	1:AA:733:A:H1'	2.16	0.45
1:AA:767:A:H2'	1:AA:768:A:H5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:N7	1:AA:802:A:N1	2.64	0.45
1:AA:87:A:C8	1:AA:88:C:C2	3.05	0.45
1:AA:920:U:H2'	1:AA:921:U:C6	2.50	0.45
1:AA:941:G:H2'	1:AA:942:G:O5'	2.15	0.45
1:AA:956:U:C2	1:AA:960:U:O4	2.70	0.45
1:AA:981:U:C3'	1:AA:981:U:H6	2.26	0.45
3:AB:62:C:C2	3:AB:63:G:N7	2.84	0.45
3:AD:5:G:N2	3:AD:6:G:C5	2.85	0.45
3:AD:76:A:H3'	24:BA:2432:A:C4'	2.39	0.45
4:AE:12:GLU:C	4:AE:14:GLY:N	2.70	0.45
4:AE:157:ARG:C	4:AE:158:LEU:CD2	2.81	0.45
4:AE:102:LEU:HD23	4:AE:176:GLU:HB3	1.95	0.45
4:AE:179:LYS:HG2	10:AK:72:PRO:HA	1.98	0.45
5:AF:123:GLN:HB3	5:AF:128:PHE:CZ	2.52	0.45
5:AF:157:ILE:HG13	5:AF:164:ARG:CD	2.46	0.45
5:AF:70:VAL:HG12	5:AF:72:LYS:H	1.82	0.45
6:AG:126:ILE:O	6:AG:132:ARG:HB3	2.17	0.45
6:AG:145:GLU:HB3	6:AG:184:LYS:CG	2.38	0.45
6:AG:80:GLU:O	6:AG:83:SER:OG	2.34	0.45
7:AH:20:GLN:NE2	7:AH:21:ALA:HB3	2.29	0.45
7:AH:95:ALA:C	7:AH:96:PRO:O	2.53	0.45
8:AI:2:ARG:O	8:AI:67:MET:CE	2.64	0.45
8:AI:97:PHE:CE2	20:AU:62:GLU:OE2	2.69	0.45
9:AJ:104:LEU:O	9:AJ:105:VAL:C	2.55	0.45
9:AJ:29:LYS:HE3	9:AJ:101:LEU:CD1	2.39	0.45
9:AJ:37:ASN:OD1	9:AJ:38:LEU:HD13	2.17	0.45
9:AJ:42:ILE:HG21	9:AJ:116:ALA:HB1	1.98	0.45
9:AJ:17:VAL:HG21	9:AJ:44:TYR:CZ	2.50	0.45
9:AJ:69:VAL:HG13	9:AJ:135:VAL:CA	2.47	0.45
12:AM:34:VAL:CA	12:AM:74:ILE:HG12	2.40	0.45
13:AN:26:ASN:O	13:AN:27:ASN:CB	2.65	0.45
1:AA:1228:C:O3'	15:AP:116:THR:HA	2.17	0.45
15:AP:17:VAL:HG12	15:AP:21:TYR:CZ	2.52	0.45
15:AP:40:ASN:CG	15:AP:42:ALA:HB3	2.37	0.45
12:AM:49:VAL:HG22	16:AQ:41:ARG:HB2	1.97	0.45
17:AR:62:GLN:CA	17:AR:65:ARG:HH12	2.30	0.45
18:AS:34:GLU:CD	18:AS:35:LYS:N	2.70	0.45
21:AV:15:LEU:HG	21:AV:16:LEU:N	2.26	0.45
1:AA:1286:A:C5'	23:AX:25:LYS:HG2	2.25	0.45
53:B6:11:LYS:CE	53:B6:15:THR:HG21	2.47	0.45
55:B8:11:CYS:C	55:B8:13:LYS:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1048:A:OP2	24:BA:1110:G:N1	2.44	0.45
24:BA:1120:G:C4	24:BA:1121:C:C5	3.05	0.45
24:BA:1184:G:C5	24:BA:1185:C:C5	3.05	0.45
24:BA:814:C:O3'	24:BA:1224:G:N2	2.50	0.45
24:BA:1260:G:N2	24:BA:1261:C:C2	2.85	0.45
24:BA:1419:A:P	24:BA:1419:A:O4'	2.74	0.45
24:BA:1388:G:H4'	24:BA:1524:G:HO2'	1.81	0.45
24:BA:1570:A:N1	24:BA:1571:A:N7	2.64	0.45
24:BA:1635:G:C5'	24:BA:1635:G:H8	2.30	0.45
24:BA:1641:A:N6	24:BA:1642:G:N3	2.65	0.45
24:BA:1698:A:O2'	24:BA:1699:G:H3'	2.16	0.45
24:BA:1700:A:H2'	24:BA:1701:A:O4'	2.16	0.45
24:BA:1759:A:O5'	24:BA:1759:A:H8	1.99	0.45
24:BA:1801:G:O6	24:BA:2207:C:H1'	2.16	0.45
24:BA:1837:C:N3	24:BA:1899:G:O6	2.49	0.45
24:BA:1955:U:O2	24:BA:1955:U:C2'	2.65	0.45
24:BA:2046:G:H2'	24:BA:2047:U:C6	2.51	0.45
24:BA:218:A:H2'	24:BA:219:G:C8	2.51	0.45
24:BA:2097:C:N4	24:BA:2193:G:C6	2.84	0.45
24:BA:2277:G:C5	24:BA:2278:A:C8	3.05	0.45
24:BA:2325:G:C8	24:BA:2326:C:C5	3.05	0.45
24:BA:2355:C:C5	24:BA:2356:C:C5	3.05	0.45
24:BA:2352:A:C8	24:BA:2366:A:C6	3.04	0.45
24:BA:2261:C:O4'	24:BA:2388:A:H1'	2.17	0.45
24:BA:2427:C:H3'	24:BA:2427:C:H6	1.82	0.45
24:BA:2591:C:C2	24:BA:2592:G:C8	3.04	0.45
24:BA:2682:U:O2'	24:BA:2683:C:H5'	2.16	0.45
24:BA:2712:U:HO2'	24:BA:2712(A):A:P	2.40	0.45
24:BA:2745:C:C2	24:BA:2746:U:C5	3.04	0.45
24:BA:2759:G:C2	24:BA:2760:C:C6	3.04	0.45
24:BA:2543:G:C2	24:BA:2765:A:N1	2.83	0.45
24:BA:2848:G:N2	24:BA:2849:U:C2	2.85	0.45
24:BA:295:G:C2'	24:BA:296:C:H5'	2.47	0.45
24:BA:479:A:O2'	24:BA:480:A:C8	2.69	0.45
24:BA:625:G:O2'	24:BA:656:G:O3'	2.30	0.45
24:BA:688:U:H5'	24:BA:1780:A:N6	2.32	0.45
24:BA:705:A:H62	24:BA:727:A:H8	1.62	0.45
24:BA:728:G:H21	24:BA:730:C:H5''	1.81	0.45
24:BA:851:U:OP1	49:B2:49:LYS:NZ	2.41	0.45
24:BA:87:C:O2'	48:B1:46:ARG:NH2	2.50	0.45
24:BA:93:C:H2'	24:BA:94:G:H8	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:29:A:OP1	39:BR:34:HIS:CE1	2.69	0.45
25:BB:6:C:C2'	25:BB:7:G:O5'	2.65	0.45
27:BD:173:VAL:O	27:BD:184:LYS:HA	2.17	0.45
24:BA:2224:G:H4'	27:BD:262:ARG:HH21	1.81	0.45
28:BE:101:ARG:HD2	28:BE:170:LEU:O	2.17	0.45
28:BE:103:ASP:HA	28:BE:170:LEU:CD2	2.47	0.45
24:BA:2773:C:C5'	28:BE:165:VAL:HG13	2.46	0.45
28:BE:195:LEU:HD22	28:BE:195:LEU:HA	1.38	0.45
24:BA:2733:A:C2	28:BE:204:ALA:HB2	2.52	0.45
28:BE:27:LEU:CD1	28:BE:30:PRO:HD3	2.31	0.45
28:BE:32:PRO:CD	28:BE:88:GLY:C	2.85	0.45
28:BE:52:LEU:HA	28:BE:74:PRO:CB	2.46	0.45
28:BE:76:ARG:HG3	28:BE:76:ARG:O	2.17	0.45
24:BA:323:G:C8	29:BF:170:LEU:HB2	2.51	0.45
29:BF:194:MET:SD	29:BF:197:ASP:CB	3.05	0.45
30:BG:22:ARG:CG	30:BG:23:PHE:N	2.80	0.45
34:BM:127:ASP:H	34:BM:129:PRO:CD	2.19	0.45
35:BN:47:ILE:CD1	35:BN:49:ARG:O	2.64	0.45
24:BA:2393:A:H5''	36:BO:56:SER:C	2.37	0.45
36:BO:58:THR:CG2	36:BO:60:MET:HG2	2.46	0.45
37:BP:36:ALA:HB3	37:BP:101:ARG:H	1.82	0.45
37:BP:27:VAL:HG13	37:BP:102:VAL:HG21	1.98	0.45
37:BP:130:LYS:HZ1	37:BP:132:VAL:HG13	1.79	0.45
37:BP:134:ARG:CG	37:BP:134:ARG:HH11	2.26	0.45
37:BP:37:LEU:H	37:BP:39:PRO:HD3	1.82	0.45
38:BQ:10:LEU:HD22	38:BQ:43:GLU:HG2	1.99	0.45
38:BQ:63:ARG:NH1	38:BQ:63:ARG:HG2	2.32	0.45
38:BQ:87:TYR:CD2	38:BQ:87:TYR:N	2.83	0.45
38:BQ:87:TYR:N	38:BQ:87:TYR:HD2	2.15	0.45
39:BR:67:ARG:HD3	39:BR:103:GLU:HB2	1.99	0.45
39:BR:77:ALA:O	39:BR:79:ALA:N	2.50	0.45
39:BR:92:TYR:CD2	39:BR:93:LYS:N	2.85	0.45
40:BS:37:GLY:CA	40:BS:42:ILE:O	2.64	0.45
41:BT:69:CYS:O	41:BT:72:HIS:HB2	2.16	0.45
42:BU:40:LEU:HB3	42:BU:51:VAL:CG1	2.47	0.45
42:BU:42:GLY:O	42:BU:49:THR:O	2.34	0.45
43:BV:29:LEU:O	43:BV:30:GLU:C	2.55	0.45
43:BV:25:ARG:CA	43:BV:71:VAL:HG11	2.42	0.45
45:BX:53:PRO:HG2	45:BX:56:PRO:HA	1.99	0.45
45:BX:57:GLN:O	45:BX:58:GLY:C	2.55	0.45
46:BY:111:VAL:HA	46:BY:116:VAL:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:72:ARG:O	47:BZ:75:LEU:CD1	2.65	0.45
47:BZ:75:LEU:HB2	47:BZ:78:TYR:CE1	2.52	0.45
32:BK:96:ASP:CA	32:BK:99:GLU:OE1	2.50	0.45
24:BA:2150:U:N3	24:BA:2151:G:N7	2.64	0.45
24:BA:2171:A:O2'	24:BA:2172:U:O4'	2.34	0.45
24:BA:2177:C:O2'	24:BA:2178:C:H5'	2.17	0.45
26:BC:108:MET:HE3	26:BC:136:LEU:CD1	2.42	0.45
26:BC:104:LEU:HA	26:BC:130:ILE:HG12	1.99	0.45
26:BC:200:LYS:HZ1	26:BC:204:ALA:HB3	1.81	0.45
26:BC:21:THR:HG1	26:BC:24:GLU:CD	2.19	0.45
24:BA:2127:G:O3'	26:BC:36:LYS:HB2	2.15	0.45
2:A1:30:U:H3'	2:A1:31:U:C6	2.51	0.45
1:AA:1001:G:C5	1:AA:1002:G:H1'	2.51	0.45
1:AA:1083:U:H3'	1:AA:1084:G:C8	2.52	0.45
1:AA:1108:G:C5	1:AA:1109:C:C4	3.05	0.45
1:AA:1252:A:C6	1:AA:1253:G:C5	3.05	0.45
1:AA:1386:G:N1	1:AA:1387:G:C5	2.85	0.45
1:AA:1392:G:C2'	1:AA:1393:U:O5'	2.65	0.45
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.52	0.45
1:AA:1433:A:O2'	1:AA:1434:A:H5'	2.16	0.45
1:AA:144:G:C6	1:AA:179:A:C6	3.04	0.45
1:AA:1480:G:C2'	1:AA:1481:U:C5'	2.95	0.45
1:AA:152:A:OP2	1:AA:153:C:H5	1.99	0.45
1:AA:181:G:H2'	1:AA:182:U:OP2	2.17	0.45
1:AA:195:A:H1'	1:AA:223:U:H5'	1.99	0.45
1:AA:195:A:P	22:AW:68:LYS:HZ1	2.40	0.45
1:AA:251:G:C4'	1:AA:252:U:OP1	2.65	0.45
1:AA:273:A:C2	1:AA:274:A:C1'	2.91	0.45
1:AA:246:A:C2	1:AA:282:A:C5	3.04	0.45
1:AA:307:C:N3	1:AA:308:C:H5	2.14	0.45
1:AA:292:G:C4	1:AA:309:G:N2	2.84	0.45
1:AA:416:G:C2	1:AA:417:C:C2	3.05	0.45
1:AA:619:U:H1'	6:AG:133:VAL:HG22	1.99	0.45
1:AA:622:A:C2	1:AA:623:C:O4'	2.70	0.45
1:AA:722:A:H5'	1:AA:723:U:O4	2.16	0.45
1:AA:588:G:C4	1:AA:753:A:C5	3.05	0.45
1:AA:812:C:C4'	1:AA:813:U:C6	3.00	0.45
1:AA:890:G:O2'	1:AA:891:U:H6	1.98	0.45
1:AA:895:G:N2	1:AA:896:C:C2	2.85	0.45
1:AA:92:G:N2	1:AA:93:U:H1'	2.31	0.45
1:AA:976:G:C6	1:AA:1362:C:N4	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:57:G:H4'	30:BG:82:LEU:CD2	2.47	0.45
4:AE:31:TYR:CZ	4:AE:200:ILE:HG21	2.51	0.45
4:AE:7:VAL:CG2	4:AE:8:LYS:H	2.21	0.45
5:AF:122:GLU:HA	5:AF:125:GLU:OE2	2.17	0.45
5:AF:160:ALA:C	5:AF:162:GLN:N	2.69	0.45
5:AF:172:ARG:HB3	5:AF:172:ARG:NH1	2.31	0.45
6:AG:140:VAL:HG12	6:AG:185:PHE:HD1	1.81	0.45
6:AG:30:LYS:HA	6:AG:35:ARG:HG2	1.98	0.45
6:AG:30:LYS:N	6:AG:34:GLU:CB	2.72	0.45
7:AH:140:ARG:O	7:AH:141:GLN:C	2.52	0.45
7:AH:41:VAL:CG2	7:AH:113:ALA:HA	2.47	0.45
7:AH:57:LYS:NZ	7:AH:61:TYR:OH	2.45	0.45
8:AI:16:GLN:O	8:AI:19:LEU:HB3	2.17	0.45
8:AI:23:LYS:HA	8:AI:26:ILE:HG13	1.98	0.45
8:AI:53:ALA:O	8:AI:55:ASP:CG	2.55	0.45
8:AI:79:LEU:CD2	8:AI:79:LEU:N	2.76	0.45
9:AJ:129:GLU:HB2	9:AJ:131:LYS:HE2	1.99	0.45
11:AL:113:LYS:H	11:AL:113:LYS:HD2	1.81	0.45
1:AA:1254:C:OP1	12:AM:45:ARG:NE	2.50	0.45
12:AM:4:ILE:HD13	12:AM:98:ILE:CG2	2.47	0.45
13:AN:79:SER:HA	13:AN:104:GLN:NE2	2.31	0.45
13:AN:34:ASP:HB2	13:AN:35:PRO:CD	2.47	0.45
13:AN:81:ASP:OD1	13:AN:106:LYS:CD	2.64	0.45
15:AP:104:ARG:HG2	15:AP:105:THR:N	2.31	0.45
15:AP:20:THR:HG22	15:AP:20:THR:O	2.15	0.45
15:AP:52:GLU:CB	15:AP:55:ARG:CZ	2.94	0.45
17:AR:27:VAL:HG12	17:AR:31:LEU:CD2	2.47	0.45
18:AS:32:TYR:C	18:AS:34:GLU:N	2.70	0.45
20:AU:38:GLU:N	20:AU:38:GLU:CD	2.64	0.45
20:AU:58:LEU:HB3	20:AU:62:GLU:CG	2.43	0.45
20:AU:78:LEU:O	20:AU:79:LEU:CB	2.64	0.45
15:AP:87:TYR:HD1	21:AV:73:GLU:HB3	1.81	0.45
48:B1:48:LEU:CD1	48:B1:51:GLN:HE22	2.29	0.45
48:B1:54:ARG:O	48:B1:55:LEU:C	2.55	0.45
50:B3:1:MET:CE	50:B3:9:LEU:HD21	2.46	0.45
50:B3:65:ASP:OD2	50:B3:69:LYS:CE	2.64	0.45
51:B4:9:LYS:H	51:B4:9:LYS:HD2	1.78	0.45
53:B6:33:ARG:O	53:B6:37:LYS:CG	2.65	0.45
24:BA:1005:C:O4'	24:BA:1012:U:O2	2.34	0.45
24:BA:1104:C:H2'	24:BA:1105:U:H6	1.80	0.45
24:BA:110:G:H2'	24:BA:110:G:N3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1137:G:O2'	34:BM:102:ALA:O	2.35	0.45
24:BA:1165:U:C2	24:BA:1166:C:C5	3.05	0.45
24:BA:1203:G:C2	24:BA:1206:G:N1	2.84	0.45
24:BA:1303:G:N7	24:BA:1304:C:N4	2.64	0.45
24:BA:1321:A:N6	24:BA:1322:A:C2	2.82	0.45
24:BA:1378:A:C2	24:BA:1380:G:N9	2.85	0.45
24:BA:1407:C:OP2	24:BA:1407:C:H6	1.97	0.45
24:BA:1472:A:HO2'	24:BA:1473:G:H8	1.62	0.45
24:BA:1574:C:C4	24:BA:1575:C:C4	3.04	0.45
24:BA:1685:C:C2'	24:BA:1686:C:O5'	2.63	0.45
24:BA:1690:A:N6	24:BA:1697:G:C2	2.85	0.45
24:BA:1790:C:O3'	27:BD:209:ALA:HB1	2.16	0.45
24:BA:1842:G:N1	24:BA:1901:A:C6	2.85	0.45
24:BA:1869:G:C4	24:BA:1878:G:O6	2.70	0.45
24:BA:1935:G:H3'	24:BA:1962:C:N4	2.26	0.45
24:BA:194:G:C2	24:BA:195:A:C4	3.05	0.45
24:BA:1970:A:C5	24:BA:1972:A:C5	3.05	0.45
24:BA:1992:G:C4'	24:BA:1993:U:C5	2.99	0.45
24:BA:217:G:C2'	24:BA:218:A:O5'	2.65	0.45
24:BA:2258:C:N4	24:BA:2426:A:O4'	2.50	0.45
24:BA:2414:G:C2	24:BA:2415:G:N7	2.85	0.45
24:BA:242:G:H5''	54:B7:4:MET:HE3	1.97	0.45
24:BA:2457:U:H2'	24:BA:2458:G:C4'	2.46	0.45
24:BA:2473:U:OP1	24:BA:2474:C:N4	2.41	0.45
24:BA:2524:G:C4	24:BA:2525:G:H1'	2.52	0.45
24:BA:244:A:C2	24:BA:255:A:C2	3.05	0.45
24:BA:2625:G:H2'	24:BA:2626:C:O5'	2.17	0.45
24:BA:2638:G:H2'	24:BA:2639:A:N7	2.31	0.45
24:BA:2642:G:H2'	24:BA:2643:G:C8	2.50	0.45
24:BA:2720:U:C2'	24:BA:2721:A:C8	2.98	0.45
24:BA:2776:A:H5''	24:BA:2777:G:OP1	2.17	0.45
24:BA:2851:A:N1	24:BA:2852:G:C2	2.85	0.45
24:BA:2851:A:N1	24:BA:2852:G:C4	2.85	0.45
24:BA:2887:U:O2'	24:BA:2888:C:H5'	2.17	0.45
24:BA:308:G:N1	24:BA:309:G:C4	2.85	0.45
24:BA:30:G:H2'	24:BA:31:C:C6	2.51	0.45
24:BA:33:U:O2'	24:BA:34:C:C5	2.56	0.45
24:BA:354:G:O2'	24:BA:355:G:O4'	2.31	0.45
24:BA:536:A:C6	24:BA:558:G:C6	3.05	0.45
24:BA:620:G:OP2	24:BA:620:G:O4'	2.35	0.45
24:BA:692:C:C2'	24:BA:693:C:O5'	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:693:C:H2'	24:BA:694:U:O5'	2.16	0.45
24:BA:775:G:H5'	24:BA:777:A:N9	2.31	0.45
24:BA:840:C:H6	24:BA:840:C:O5'	1.99	0.45
24:BA:930:U:C2'	24:BA:931:G:OP2	2.64	0.45
24:BA:949:C:H2'	24:BA:950:G:C8	2.34	0.45
25:BB:3:C:O2'	25:BB:4:C:H5'	2.16	0.45
27:BD:107:ALA:O	27:BD:108:PRO:O	2.35	0.45
24:BA:2216:G:H21	27:BD:150:LYS:CD	2.30	0.45
27:BD:181:GLU:OE2	27:BD:272:ALA:HA	2.15	0.45
27:BD:33:LEU:HD11	27:BD:61:LEU:HD11	1.98	0.45
27:BD:61:LEU:O	27:BD:62:TYR:HB2	2.16	0.45
24:BA:1567:A:N1	27:BD:85:ASP:C	2.70	0.45
28:BE:146:THR:CB	28:BE:147:PRO:CD	2.78	0.45
29:BF:142:TRP:O	29:BF:145:GLU:N	2.49	0.45
29:BF:21:ALA:O	29:BF:22:ALA:HB3	2.16	0.45
29:BF:34:TRP:HB3	29:BF:38:ARG:NE	2.27	0.45
30:BG:105:LYS:C	30:BG:109:VAL:HG22	2.34	0.45
31:BH:11:VAL:HB	31:BH:50:VAL:HG22	1.97	0.45
31:BH:11:VAL:HG11	31:BH:45:VAL:HG11	1.98	0.45
32:BK:9:LEU:CG	32:BK:17:GLN:NE2	2.79	0.45
34:BM:19:GLU:HG3	34:BM:59:LYS:HB2	1.99	0.45
34:BM:34:LEU:HD22	34:BM:116:LEU:CD2	2.47	0.45
34:BM:69:GLN:H	34:BM:69:GLN:NE2	2.14	0.45
34:BM:77:GLY:C	34:BM:78:TYR:O	2.55	0.45
35:BN:52:VAL:O	35:BN:53:LYS:CG	2.65	0.45
36:BO:76:LYS:HB2	36:BO:101:VAL:HG21	1.99	0.45
29:BF:34:TRP:CG	36:BO:8:PRO:HB2	2.51	0.45
37:BP:32:TYR:N	37:BP:32:TYR:CD1	2.85	0.45
37:BP:7:MET:O	37:BP:69:PHE:CZ	2.70	0.45
24:BA:1287:A:H8	38:BQ:104:ARG:NH1	2.13	0.45
38:BQ:31:HIS:C	38:BQ:33:ARG:H	2.20	0.45
38:BQ:36:THR:OG1	38:BQ:40:LYS:HB3	2.17	0.45
24:BA:2820:A:OP1	38:BQ:5:LYS:HE2	2.17	0.45
38:BQ:83:ILE:O	38:BQ:84:ALA:C	2.53	0.45
40:BS:105:LEU:HG	40:BS:106:SER:H	1.82	0.45
40:BS:40:THR:O	40:BS:42:ILE:N	2.50	0.45
40:BS:70:VAL:HB	40:BS:74:ARG:CD	2.44	0.45
40:BS:87:ASP:OD2	40:BS:88:ILE:N	2.49	0.45
40:BS:30:VAL:CG2	40:BS:89:VAL:O	2.54	0.45
41:BT:37:GLU:C	41:BT:39:LEU:N	2.70	0.45
24:BA:1154:G:OP1	41:BT:58:ARG:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:67:ALA:HA	41:BT:70:ARG:NH2	2.11	0.45
42:BU:4:ILE:HD11	42:BU:43:GLU:OE1	2.17	0.45
42:BU:48:GLY:O	42:BU:49:THR:HG23	2.17	0.45
42:BU:40:LEU:CB	42:BU:51:VAL:HG13	2.47	0.45
43:BV:25:ARG:HD3	43:BV:74:ALA:C	2.38	0.45
43:BV:34:ASN:H	43:BV:34:ASN:ND2	2.15	0.45
43:BV:81:ALA:HB3	43:BV:97:LYS:HB2	1.98	0.45
45:BX:50:ARG:HG3	45:BX:54:LYS:CB	2.40	0.45
45:BX:97:ARG:C	45:BX:98:VAL:CG2	2.85	0.45
46:BY:1:MET:CE	46:BY:59:LEU:HD22	2.46	0.45
32:BK:97:ILE:HG22	32:BK:101:LEU:HD22	1.99	0.45
26:BC:22:ILE:CG1	26:BC:189:ILE:HG21	2.47	0.45
26:BC:43:VAL:HG21	26:BC:175:VAL:HG21	1.98	0.45
26:BC:44:HIS:CD2	26:BC:215:THR:HG21	2.52	0.45
26:BC:76:ALA:CA	26:BC:149:ILE:HD11	2.46	0.45
26:BC:78:ALA:HA	26:BC:119:VAL:HG22	1.98	0.45
33:BL:98:ARG:HD3	33:BL:139:VAL:HG11	1.98	0.45
43:BV:85:VAL:HG12	43:BV:95:ILE:CG2	2.46	0.45
18:AS:67:THR:CB	18:AS:70:ALA:HB2	2.43	0.45
11:AL:99:LEU:N	11:AL:99:LEU:CD2	2.80	0.45
1:AA:110:C:H2'	1:AA:111:G:H8	1.82	0.45
1:AA:1227:A:OP1	21:AV:80:TYR:HE2	1.95	0.45
1:AA:1321:C:H6	1:AA:1321:C:H3'	1.82	0.45
1:AA:1365:G:C2	1:AA:1366:C:C6	3.05	0.45
1:AA:1399:C:O2	1:AA:1401:G:N7	2.50	0.45
1:AA:1453:G:C2'	1:AA:1454:G:H5'	2.46	0.45
1:AA:1438:G:N2	1:AA:1464:G:H1'	2.32	0.45
1:AA:1470:G:C6	1:AA:1471:G:C5	3.05	0.45
1:AA:1519:A:H8	1:AA:1519:A:O5'	1.99	0.45
1:AA:152:A:C8	1:AA:153:C:C5	3.05	0.45
1:AA:392:G:N2	1:AA:393:A:H1'	2.32	0.45
1:AA:440:A:H2'	1:AA:442:C:O4'	2.17	0.45
1:AA:50:A:N3	1:AA:360:A:N3	2.65	0.45
1:AA:690:G:H2'	1:AA:691:G:O5'	2.17	0.45
1:AA:692:U:C4	13:AN:26:ASN:ND2	2.84	0.45
1:AA:789:U:H6	1:AA:789:U:C3'	2.26	0.45
1:AA:81:G:O6	1:AA:82:U:O4	2.35	0.45
1:AA:986:A:H2'	1:AA:987:G:H8	1.81	0.45
1:AA:995:C:O2	16:AQ:4:LYS:CE	2.65	0.45
3:AB:18:G:H22	3:AB:55:U:H1'	1.82	0.45
4:AE:119:GLU:CA	4:AE:142:LEU:CD1	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:185:ILE:HG12	4:AE:185:ILE:O	2.17	0.45
4:AE:51:LEU:N	4:AE:51:LEU:HD23	2.32	0.45
4:AE:70:PHE:HB3	4:AE:163:PHE:C	2.38	0.45
5:AF:116:VAL:HG21	5:AF:141:VAL:HG22	1.97	0.45
5:AF:155:GLY:O	5:AF:196:LEU:CB	2.64	0.45
5:AF:85:ARG:HH21	5:AF:89:GLU:CA	2.28	0.45
6:AG:106:TYR:CD2	6:AG:114:ARG:HG2	2.44	0.45
6:AG:139:ARG:CG	6:AG:140:VAL:H	2.29	0.45
6:AG:194:LEU:O	6:AG:195:ALA:O	2.35	0.45
7:AH:110:LEU:HD23	7:AH:110:LEU:N	2.32	0.45
7:AH:112:LEU:O	7:AH:114:GLY:N	2.49	0.45
8:AI:21:LEU:O	8:AI:24:GLU:HG3	2.17	0.45
9:AJ:126:ASP:O	9:AJ:131:LYS:CG	2.64	0.45
9:AJ:144:MET:HE2	9:AJ:144:MET:HB3	1.90	0.45
1:AA:824:C:C1'	10:AK:1:MET:H1	2.29	0.45
10:AK:26:VAL:O	10:AK:58:TYR:CD1	2.70	0.45
11:AL:71:SER:O	11:AL:74:ILE:N	2.50	0.45
12:AM:22:LYS:CE	12:AM:90:LEU:HD12	2.45	0.45
13:AN:108:ILE:HB	20:AU:88:LYS:OXT	2.17	0.45
13:AN:32:ILE:O	13:AN:40:ILE:HD13	2.17	0.45
13:AN:86:GLY:H	13:AN:112:THR:HG23	1.82	0.45
14:AO:24:VAL:CG1	14:AO:98:TYR:CE2	3.00	0.45
15:AP:22:ILE:CB	15:AP:25:ILE:HD12	2.47	0.45
18:AS:40:ASP:CG	18:AS:40:ASP:O	2.55	0.45
1:AA:189:U:H3	19:AT:63:ARG:CB	2.30	0.45
19:AT:65:ILE:HG23	19:AT:69:LYS:CD	2.41	0.45
20:AU:22:VAL:CG2	20:AU:55:ARG:O	2.65	0.45
20:AU:17:SER:HB2	20:AU:54:ARG:HH12	1.81	0.45
22:AW:31:SER:O	22:AW:34:LYS:HB2	2.17	0.45
22:AW:84:LEU:CD1	22:AW:84:LEU:C	2.86	0.45
23:AX:3:LYS:O	23:AX:14:TRP:HE3	1.98	0.45
50:B3:31:ILE:HG12	50:B3:31:ILE:O	2.17	0.45
50:B3:5:ILE:HD12	50:B3:8:LYS:O	2.16	0.45
52:B5:39:TYR:CG	52:B5:39:TYR:O	2.70	0.45
24:BA:2345:G:OP1	52:B5:39:TYR:O	2.35	0.45
52:B5:7:ILE:CG2	52:B5:8:LYS:H	2.28	0.45
54:B7:19:SER:HG	54:B7:21:LYS:HZ1	1.65	0.45
54:B7:26:LYS:O	54:B7:47:LYS:HE3	2.17	0.45
54:B7:29:LYS:HB3	54:B7:34:TRP:HH2	1.70	0.45
54:B7:62:LEU:CB	54:B7:63:PRO:HD3	2.46	0.45
24:BA:1055:G:C2	24:BA:1084:A:C2	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1056:G:N1	24:BA:1102:C:C5	2.84	0.45
24:BA:1119:C:O2	24:BA:1119:C:C2'	2.64	0.45
24:BA:111:A:C2'	24:BA:112:U:C6	2.94	0.45
24:BA:585:G:H22	24:BA:1253:A:P	2.39	0.45
24:BA:1267:U:HO2'	24:BA:1268:A:P	2.37	0.45
24:BA:1326:U:C6	24:BA:2010:G:N2	2.77	0.45
24:BA:1355:G:H22	24:BA:1377:G:C1'	2.25	0.45
24:BA:1388:G:N3	24:BA:1389:G:C8	2.85	0.45
24:BA:1343:G:C6	24:BA:1404:C:N3	2.85	0.45
24:BA:1449:A:H2	24:BA:1449(A):G:H1'	1.80	0.45
24:BA:1631:A:C8	24:BA:1631:A:OP 1	2.70	0.45
24:BA:1635:G:H2'	24:BA:1636:C:H6	1.81	0.45
24:BA:1680:U:O2'	24:BA:1763:G:C8	2.70	0.45
24:BA:1761:C:H3'	24:BA:1761:C:H6	1.82	0.45
24:BA:18:C:N3	24:BA:19:C:C5	2.85	0.45
24:BA:1912:A:C6	24:BA:1919:A:C4	3.05	0.45
24:BA:193:U:O2'	24:BA:194:G:H5'	2.17	0.45
24:BA:1996:C:C3'	24:BA:1996:C:C6	3.00	0.45
24:BA:2024:G:C6	24:BA:2025:C:C5	3.05	0.45
24:BA:2051:A:C2	24:BA:2614:A:N6	2.85	0.45
24:BA:2056:G:O5'	24:BA:2057:A:OP 1	2.34	0.45
24:BA:2076:U:C5'	24:BA:2077:A:OP 2	2.65	0.45
24:BA:2089:U:C2	24:BA:2090:G:N7	2.85	0.45
24:BA:2445:G:C2	24:BA:2446:G:C5	3.05	0.45
24:BA:253:C:O2	24:BA:254:G:O4'	2.35	0.45
24:BA:2626:C:H3'	24:BA:2626:C:C6	2.52	0.45
24:BA:2706:G:C2'	24:BA:2707:G:O5'	2.65	0.45
24:BA:2717:G:C4	24:BA:2718:G:N7	2.85	0.45
24:BA:271(B):G:C3'	24:BA:271(C):U:H5'	2.46	0.45
24:BA:271(C):U:O4	24:BA:421:U:N3	2.50	0.45
24:BA:2880:C:H2'	24:BA:2881:C:H6	1.81	0.45
24:BA:2896:C:H2'	24:BA:2897:U:O5'	2.17	0.45
24:BA:285:C:N3	24:BA:357:A:C2	2.85	0.45
24:BA:513:A:C2'	24:BA:514:A:H5'	2.47	0.45
24:BA:566:U:C5	24:BA:567:A:C5	3.05	0.45
24:BA:618:G:H2'	24:BA:618(A):C:N1	2.31	0.45
24:BA:703:U:C5	24:BA:704:G:C5	3.05	0.45
24:BA:768:G:C4	24:BA:769:G:C8	3.05	0.45
24:BA:778:G:C6	24:BA:779:U:N3	2.85	0.45
24:BA:779:U:O4	24:BA:780:G:N1	2.50	0.45
24:BA:815:C:H2'	24:BA:816:C:H6	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:829:A:OP1	24:BA:831:G:H1'	2.16	0.45
24:BA:975:G:C2	24:BA:976:C:C6	2.99	0.45
24:BA:983:A:C2'	24:BA:984:A:C8	2.97	0.45
24:BA:983:A:C2	24:BA:984:A:N1	2.85	0.45
25:BB:33:G:N3	25:BB:33:G:H2'	2.31	0.45
25:BB:44:G:C2	25:BB:48:A:H1'	2.51	0.45
27:BD:175:LEU:CD1	27:BD:175:LEU:C	2.77	0.45
27:BD:23:GLU:CD	27:BD:24:ILE:O	2.55	0.45
27:BD:57:GLY:O	27:BD:58:HIS:HB2	2.17	0.45
27:BD:84:TYR:CD1	27:BD:91:ARG:HD2	2.52	0.45
28:BE:101:ARG:NH2	28:BE:171:GLU:CG	2.79	0.45
24:BA:2830:G:H5'	28:BE:57:LYS:HE3	1.99	0.45
29:BF:43:LYS:HG3	29:BF:98:SER:C	2.37	0.45
30:BG:100:TRP:C	30:BG:102:PHE:N	2.63	0.45
30:BG:139:LEU:O	30:BG:142:PRO:HD3	2.17	0.45
30:BG:39:ILE:HA	30:BG:157:ILE:HA	1.98	0.45
30:BG:33:ARG:NH2	30:BG:34:LEU:C	2.70	0.45
31:BH:111:HIS:O	31:BH:113:VAL:N	2.50	0.45
31:BH:150:ALA:O	31:BH:151:ILE:C	2.55	0.45
31:BH:46:GLU:O	31:BH:47:GLU:HB2	2.17	0.45
31:BH:58:GLU:O	31:BH:62:LYS:HG2	2.17	0.45
32:BK:28:ASN:O	32:BK:28:ASN:OD1	2.34	0.45
33:BL:115:LEU:O	33:BL:116:ASN:C	2.55	0.45
34:BM:22:THR:HG21	34:BM:61:ARG:NH1	2.31	0.45
34:BM:7:LYS:CE	34:BM:8:GLN:H	2.27	0.45
36:BO:96:THR:O	36:BO:102:ARG:CD	2.63	0.45
24:BA:637:A:OP1	36:BO:133:SER:HB3	2.16	0.45
36:BO:58:THR:HG22	36:BO:59:LEU:N	2.32	0.45
36:BO:76:LYS:HE2	36:BO:81:GLN:CD	2.37	0.45
36:BO:81:GLN:C	36:BO:86:LYS:HG3	2.37	0.45
37:BP:75:THR:HG21	37:BP:89:ASN:O	2.17	0.45
38:BQ:35:THR:HG22	38:BQ:113:LEU:CD2	2.47	0.45
38:BQ:65:LEU:HD23	38:BQ:65:LEU:O	2.16	0.45
39:BR:3:ARG:HH11	39:BR:3:ARG:CG	2.29	0.45
40:BS:39:ARG:HE	40:BS:39:ARG:HB3	1.60	0.45
40:BS:79:HIS:HB2	40:BS:82:LEU:CB	2.42	0.45
41:BT:61:TRP:N	41:BT:61:TRP:CD1	2.85	0.45
42:BU:1:MET:N	42:BU:45:THR:OG1	2.50	0.45
24:BA:566:U:H3'	42:BU:82:ARG:HH12	1.81	0.45
43:BV:41:LYS:HB3	43:BV:41:LYS:HZ2	1.78	0.45
43:BV:70:TYR:CE1	43:BV:72:LYS:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:21:VAL:CG1	43:BV:75:TYR:CD2	2.99	0.45
45:BX:26:LYS:NZ	45:BX:36:ALA:HB3	2.32	0.45
45:BX:38:ILE:HG22	45:BX:38:ILE:O	2.17	0.45
45:BX:44:ILE:O	45:BX:45:VAL:C	2.55	0.45
45:BX:46:LYS:HB2	45:BX:57:GLN:N	2.31	0.45
45:BX:1:MET:HG2	45:BX:67:LEU:HD22	1.98	0.45
45:BX:71:LYS:N	45:BX:71:LYS:HD2	2.19	0.45
24:BA:2278:A:C5	47:BZ:14:ARG:HB3	2.51	0.45
47:BZ:46:LYS:HE2	47:BZ:77:ARG:H	1.82	0.45
32:BK:118:LYS:HG3	32:BK:119:PRO:HD2	1.98	0.45
32:BK:87:LYS:CE	32:BK:122:GLU:OE2	2.57	0.45
32:BK:86:THR:CG2	32:BK:87:LYS:N	2.76	0.45
3:AD:48:C:O2'	3:AD:49:C:P	2.74	0.45
24:BA:2133:G:N3	24:BA:2133:G:H2'	2.32	0.45
24:BA:1417:C:H2'	24:BA:1418:G:O5'	2.17	0.45
1:AA:1163:C:N4	1:AA:1174:G:C6	2.85	0.45
34:BM:139:GLU:O	34:BM:140:VAL:HG22	2.13	0.45
3:AD:66:U:N3	3:AD:67:C:C4	2.85	0.45
24:BA:1563:G:C6	24:BA:1564:C:C4	3.05	0.45
33:BL:120:LEU:HD23	33:BL:120:LEU:N	2.31	0.45
14:AO:125:PRO:C	14:AO:127:GLU:H	2.20	0.45
2:A1:13:U:H3'	2:A1:14:U:C5	2.52	0.45
1:AA:1056:U:O2	5:AF:195:VAL:CG2	2.62	0.45
1:AA:1057:G:C4	1:AA:1058:G:C8	3.05	0.45
1:AA:1236:A:H5''	1:AA:1305:G:OP1	2.17	0.45
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.82	0.45
1:AA:1310:G:C2	1:AA:1328:C:C2	3.04	0.45
1:AA:266:G:C2'	1:AA:267:C:OP2	2.65	0.45
1:AA:318:G:O2'	1:AA:319:G:H5'	2.17	0.45
1:AA:47:C:C5	1:AA:365:U:O2	2.70	0.45
1:AA:538:G:OP2	14:AO:115:LYS:HB2	2.17	0.45
1:AA:689:C:C6	1:AA:690:G:C8	3.05	0.45
1:AA:702:A:C6	24:BA:1848:A:C2	3.05	0.45
1:AA:779:C:N4	1:AA:780:A:C2	2.85	0.45
1:AA:897:C:C2'	1:AA:898:G:O5'	2.65	0.45
1:AA:963:G:N1	1:AA:973:G:C6	2.85	0.45
4:AE:42:ILE:HD12	4:AE:202:PRO:HB2	1.90	0.45
5:AF:176:HIS:O	5:AF:177:THR:C	2.55	0.45
5:AF:187:ALA:HB3	5:AF:198:VAL:HG21	1.98	0.45
6:AG:15:GLU:OE2	6:AG:63:LYS:HE3	2.17	0.45
6:AG:198:VAL:HG23	6:AG:199:ASN:N	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:41:GLU:O	8:AI:42:GLU:HB3	2.16	0.45
9:AJ:51:GLN:NE2	9:AJ:58:PRO:HD3	2.31	0.45
9:AJ:71:PRO:HG2	9:AJ:96:GLN:HA	1.98	0.45
10:AK:114:THR:CG2	10:AK:119:LEU:HD23	2.41	0.45
10:AK:15:ASN:O	10:AK:16:ALA:C	2.55	0.45
10:AK:63:LEU:CD2	10:AK:63:LEU:N	2.80	0.45
11:AL:19:LEU:HD22	11:AL:20:ARG:N	2.32	0.45
12:AM:55:LYS:HG3	12:AM:55:LYS:O	2.16	0.45
1:AA:676:A:C4'	13:AN:114:VAL:O	2.65	0.45
13:AN:23:ALA:CB	13:AN:28:THR:CG2	2.95	0.45
1:AA:538:G:OP1	14:AO:114:LYS:HB2	2.16	0.45
1:AA:1228:C:O5'	15:AP:115:LYS:O	2.35	0.45
15:AP:26:GLY:C	15:AP:27:LYS:O	2.55	0.45
15:AP:48:LEU:HD22	15:AP:49:THR:O	2.17	0.45
16:AQ:45:ARG:NH1	16:AQ:45:ARG:CG	2.72	0.45
17:AR:66:LEU:H	17:AR:66:LEU:CD2	2.29	0.45
17:AR:69:TYR:O	17:AR:72:ARG:N	2.50	0.45
18:AS:34:GLU:OE2	18:AS:35:LYS:N	2.50	0.45
18:AS:8:ARG:HH12	18:AS:11:SER:CA	2.28	0.45
19:AT:97:SER:CB	19:AT:104:LYS:H	2.30	0.45
20:AU:67:ALA:HA	20:AU:70:ILE:CG1	2.46	0.45
8:AI:50:TYR:HH	20:AU:77:GLY:HA2	1.80	0.45
21:AV:25:LYS:O	21:AV:25:LYS:HD2	2.17	0.45
21:AV:45:VAL:HG22	21:AV:67:VAL:CG2	2.37	0.45
22:AW:12:ALA:C	22:AW:14:LYS:N	2.68	0.45
23:AX:6:ARG:HG3	23:AX:7:ARG:H	1.82	0.45
48:B1:19:LEU:HD11	48:B1:23:LYS:HD3	1.99	0.45
48:B1:55:LEU:C	48:B1:58:VAL:HG13	2.28	0.45
50:B3:61:ARG:O	50:B3:62:ARG:C	2.56	0.45
50:B3:64:GLY:C	50:B3:68:ARG:NH2	2.70	0.45
51:B4:10:LYS:HE3	51:B4:15:ARG:NH1	2.30	0.45
24:BA:2399:G:N3	52:B5:21:TYR:HE1	2.15	0.45
54:B7:22:VAL:O	54:B7:48:PHE:CD1	2.69	0.45
55:B8:29:ASN:HA	55:B8:30:PRO:HD2	1.84	0.45
24:BA:1009:A:H4'	41:BT:62:ILE:CG2	2.43	0.45
24:BA:1048:A:N3	24:BA:1048:A:H2'	2.32	0.45
24:BA:1049:C:N3	24:BA:1050:A:C6	2.85	0.45
24:BA:1122:G:N2	24:BA:1123:C:N1	2.64	0.45
24:BA:1155:A:H3'	24:BA:1155:A:P	2.57	0.45
24:BA:1161:C:H2'	24:BA:1162:G:O4'	2.16	0.45
24:BA:1444(A):A:H2'	24:BA:1460:A:O2'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1451:C:C5'	24:BA:1453:A:H4'	2.46	0.45
24:BA:1518:C:C4	24:BA:1519:G:C8	3.05	0.45
24:BA:1596:A:C6	24:BA:1597:A:C5	3.05	0.45
24:BA:1635:G:H2'	24:BA:1636:C:O4'	2.17	0.45
24:BA:1636:C:O3'	24:BA:1760:A:O2'	2.34	0.45
24:BA:1704:G:N1	24:BA:1705:G:C4	2.84	0.45
24:BA:1784:A:C1'	24:BA:1785:A:C8	3.00	0.45
24:BA:1806:C:H2'	24:BA:1807:G:C5'	2.47	0.45
24:BA:1932:A:H3'	24:BA:1933:G:H8	1.81	0.45
24:BA:2051:A:C5	24:BA:2614:A:N6	2.85	0.45
24:BA:211:A:O2'	24:BA:212:G:H5'	2.17	0.45
24:BA:2227:A:H2'	24:BA:2228:G:O5'	2.16	0.45
24:BA:2232:U:H2'	24:BA:2233:U:H5'	1.99	0.45
24:BA:2257:U:C5'	47:BZ:11:ARG:HD3	2.46	0.45
24:BA:2306:C:N4	30:BG:43:LEU:HB3	2.32	0.45
24:BA:2346:A:O2'	24:BA:2347:C:OP2	2.32	0.45
3:AB:51:U:C2'	24:BA:2471:C:H4'	2.47	0.45
3:AB:52:G:C4'	24:BA:2471:C:OP1	2.49	0.45
24:BA:251:A:H2'	24:BA:252:G:C5'	2.46	0.45
24:BA:2520:C:C5	24:BA:2567:G:N9	2.85	0.45
24:BA:2689:U:H5'	24:BA:2690:C:H5'	1.98	0.45
24:BA:270(A):A:N6	24:BA:270(Z):U:O5'	2.50	0.45
24:BA:270(B):A:C1'	24:BA:270(C):C:H5	2.30	0.45
24:BA:2783:G:C6	24:BA:2784:C:C4	3.05	0.45
24:BA:2876:G:C4'	40:BS:1:MET:N	2.69	0.45
24:BA:324:A:C2	24:BA:325:G:C4	3.05	0.45
24:BA:324:A:H2	24:BA:325:G:H1'	1.82	0.45
24:BA:270(C):C:OP1	24:BA:365:C:O2	2.35	0.45
24:BA:371:A:C5	24:BA:424:G:O4'	2.69	0.45
24:BA:470:A:H2'	24:BA:471:A:O5'	2.17	0.45
24:BA:479:A:HO2'	24:BA:480:A:H3'	1.82	0.45
24:BA:493:G:O2'	24:BA:494:G:H5'	2.17	0.45
24:BA:499:U:O4	24:BA:500:G:N2	2.50	0.45
24:BA:523:C:H2'	24:BA:524:U:C5'	2.47	0.45
24:BA:583:G:C5	24:BA:584:C:C5	3.05	0.45
24:BA:237:C:O2'	24:BA:608:A:H4'	2.17	0.45
24:BA:611:C:O2	24:BA:612:G:H1'	2.16	0.45
24:BA:649:G:C2	24:BA:650:C:H1'	2.52	0.45
24:BA:733:G:O6	24:BA:761:A:N9	2.50	0.45
24:BA:762:U:H1'	24:BA:763:G:C4	2.51	0.45
24:BA:803:U:H2'	24:BA:804:A:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:848:G:H1'	24:BA:934:G:O4'	2.17	0.45
24:BA:972:G:H5''	24:BA:974:G:P	2.56	0.45
27:BD:146:GLU:OE2	27:BD:150:LYS:N	2.50	0.45
27:BD:174:ILE:H	27:BD:174:ILE:HD12	1.79	0.45
27:BD:208:LYS:NZ	27:BD:211:ARG:CZ	2.80	0.45
28:BE:105:THR:HG21	28:BE:199:ARG:NH2	2.32	0.45
29:BF:32:LEU:HD21	29:BF:105:VAL:CG1	2.47	0.45
29:BF:133:ASN:CB	29:BF:162:LEU:HD13	2.47	0.45
29:BF:8:GLN:HB3	29:BF:18:ARG:CB	2.47	0.45
24:BA:449:A:OP2	29:BF:85:GLY:HA2	2.16	0.45
30:BG:33:ARG:HH22	30:BG:34:LEU:C	2.20	0.45
30:BG:36:LYS:CA	30:BG:95:ARG:O	2.64	0.45
30:BG:96:ARG:NH1	30:BG:96:ARG:HB2	2.32	0.45
31:BH:149:ARG:HH12	31:BH:164:TYR:HB3	1.81	0.45
31:BH:25:LYS:HE3	31:BH:34:GLU:OE2	2.16	0.45
31:BH:43:VAL:HG13	31:BH:44:VAL:H	1.82	0.45
31:BH:76:VAL:CA	31:BH:79:VAL:HG22	2.45	0.45
33:BL:127:ILE:O	33:BL:131:ALA:HB2	2.17	0.45
33:BL:7:VAL:CG2	33:BL:56:GLU:OE1	2.65	0.45
35:BN:63:VAL:HG21	35:BN:81:ASP:CA	2.47	0.45
36:BO:97:PRO:HB3	36:BO:102:ARG:HH11	1.80	0.45
36:BO:102:ARG:O	36:BO:108:LYS:HB2	2.18	0.45
36:BO:46:LYS:CB	36:BO:49:ARG:NH1	2.78	0.45
36:BO:78:PRO:O	36:BO:81:GLN:HB2	2.17	0.45
37:BP:130:LYS:HE3	37:BP:131:ILE:CA	2.47	0.45
37:BP:131:ILE:CG2	37:BP:132:VAL:N	2.80	0.45
37:BP:74:TYR:CD2	37:BP:92:GLY:O	2.70	0.45
25:BB:116:G:H5'	39:BR:53:SER:HA	1.99	0.45
39:BR:93:LYS:CG	39:BR:94:TYR:N	2.80	0.45
41:BT:86:ALA:HB3	41:BT:90:VAL:HG22	1.99	0.45
41:BT:98:LEU:HD13	41:BT:98:LEU:HA	1.84	0.45
41:BT:89:GLU:HB2	42:BU:51:VAL:HB	1.98	0.45
24:BA:1161:C:O4'	42:BU:8:GLY:HA3	2.17	0.45
43:BV:24:ILE:CD1	43:BV:36:LEU:HD13	2.44	0.45
24:BA:1312:U:C6	44:BW:62:LYS:HG3	2.52	0.45
45:BX:14:LEU:HD22	45:BX:19:LYS:CB	2.39	0.45
45:BX:65:ALA:O	45:BX:66:PRO:O	2.35	0.45
46:BY:18:LEU:HD22	46:BY:23:LYS:HG2	1.97	0.45
46:BY:37:VAL:C	46:BY:38:TYR:CD2	2.91	0.45
25:BB:77:U:H5'	46:BY:84:GLU:HB3	1.99	0.45
47:BZ:64:ASP:HB3	47:BZ:84:LEU:CD1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:87:LYS:HE2	32:BK:121:LYS:CG	2.23	0.45
26:BC:223:ARG:CG	26:BC:224:ILE:N	2.80	0.45
15:AP:122:LYS:O	15:AP:123:ALA:HB2	2.17	0.45
3:AD:30:G:H2'	3:AD:31:A:C8	2.52	0.45
1:AA:1068:G:N2	1:AA:1191:A:C2	2.85	0.44
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.53	0.44
1:AA:1267:C:N4	1:AA:1268:A:N1	2.62	0.44
1:AA:1319:A:OP2	21:AV:5:LEU:HD13	2.17	0.44
1:AA:1333:A:O5'	1:AA:1333:A:C8	2.64	0.44
1:AA:1336:C:C2'	1:AA:1337:G:OP2	2.65	0.44
1:AA:133:U:O3'	1:AA:134:A:C8	2.70	0.44
1:AA:1349:A:O2'	1:AA:1350:A:H5'	2.17	0.44
1:AA:1315:U:O2'	1:AA:1360:A:C1'	2.64	0.44
1:AA:1402:C:H2'	1:AA:1403:C:O5'	2.18	0.44
1:AA:1412:C:C2	1:AA:1413:A:C8	3.05	0.44
1:AA:1446:A:N3	1:AA:1446:A:O4'	2.50	0.44
1:AA:1495:U:C2'	1:AA:1496:C:O5'	2.65	0.44
1:AA:1498:U:HO2'	1:AA:1499:A:C5'	2.30	0.44
1:AA:1511:G:C6	1:AA:1512:U:C4	3.06	0.44
1:AA:819:A:N3	1:AA:1529:G:O6	2.50	0.44
1:AA:186(B):C:N3	1:AA:186(C):G:C8	2.84	0.44
1:AA:186(D):C:C2	1:AA:186(E):C:C5	3.05	0.44
1:AA:19:C:N3	1:AA:20:U:H5	2.14	0.44
1:AA:242:C:C2'	1:AA:243:A:O5'	2.65	0.44
1:AA:246:A:HO2'	1:AA:247:G:C4'	2.24	0.44
1:AA:113:G:O4'	1:AA:354:G:H5''	2.17	0.44
1:AA:363:A:N1	1:AA:364:A:C2	2.85	0.44
1:AA:393:A:C5	1:AA:394:G:N7	2.85	0.44
1:AA:530:G:H5'	1:AA:531:U:H5''	1.99	0.44
1:AA:563:A:C2	1:AA:567:G:C4	3.05	0.44
1:AA:568:G:H2'	1:AA:569:C:C6	2.52	0.44
1:AA:597:G:C4	1:AA:644:G:C2	3.06	0.44
1:AA:664:G:OP1	20:AU:64:ARG:NE	2.25	0.44
1:AA:721:G:H1'	1:AA:722:A:C2	2.52	0.44
1:AA:754:C:C2'	1:AA:754:C:O2	2.64	0.44
1:AA:828:A:C5'	1:AA:859:A:N1	2.80	0.44
1:AA:88:C:O2'	1:AA:89:U:O5'	2.35	0.44
1:AA:988:G:N1	1:AA:989:C:C2	2.85	0.44
2:A1:46:U:C2	3:AB:34:G:C2	3.05	0.44
3:AD:73:A:N3	3:AD:73:A:H2'	2.32	0.44
4:AE:115:LEU:HA	4:AE:145:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:28:PHE:HA	4:AE:194:PRO:HG2	1.99	0.44
4:AE:49:GLU:HA	4:AE:52:GLU:OE2	2.17	0.44
5:AF:130:VAL:O	5:AF:134:ILE:HD13	2.17	0.44
5:AF:138:VAL:HG13	5:AF:149:ALA:HB1	1.99	0.44
5:AF:28:GLN:CA	5:AF:30:ARG:CZ	2.95	0.44
5:AF:64:VAL:O	5:AF:65:ALA:C	2.54	0.44
6:AG:80:GLU:O	6:AG:83:SER:CB	2.66	0.44
7:AH:105:VAL:HG12	7:AH:106:PRO:HD3	1.99	0.44
7:AH:10:MET:O	7:AH:10:MET:SD	2.75	0.44
1:AA:8:A:C5'	7:AH:120:THR:O	2.65	0.44
7:AH:12:LEU:HD12	7:AH:31:LEU:N	2.32	0.44
9:AJ:64:GLN:HB3	9:AJ:128:ALA:CB	2.45	0.44
10:AK:113:SER:O	10:AK:131:GLY:CA	2.65	0.44
10:AK:10:LEU:CD2	10:AK:135:CYS:SG	3.04	0.44
10:AK:44:PHE:O	10:AK:64:LYS:HD3	2.17	0.44
4:AE:181:PHE:CE1	10:AK:71:GLY:HA3	2.52	0.44
11:AL:91:ASP:O	11:AL:91:ASP:CG	2.54	0.44
13:AN:100:ALA:O	13:AN:102:GLY:N	2.50	0.44
13:AN:31:THR:HG23	13:AN:42:TRP:HB3	1.98	0.44
13:AN:43:SER:HA	13:AN:47:VAL:HG11	1.99	0.44
14:AO:26:ALA:C	14:AO:27:LEU:O	2.52	0.44
14:AO:55:VAL:O	14:AO:70:ILE:HD11	2.16	0.44
14:AO:88:GLY:O	14:AO:89:ARG:C	2.55	0.44
14:AO:85:ILE:CG1	14:AO:98:TYR:HB3	2.47	0.44
1:AA:953:G:O3'	15:AP:124:PRO:O	2.36	0.44
15:AP:17:VAL:HG12	15:AP:21:TYR:OH	2.17	0.44
15:AP:40:ASN:C	15:AP:42:ALA:N	2.69	0.44
18:AS:14:ASN:O	18:AS:14:ASN:CG	2.56	0.44
18:AS:8:ARG:NH1	18:AS:14:ASN:O	2.50	0.44
19:AT:61:GLU:CA	19:AT:71:PHE:CE2	2.97	0.44
19:AT:7:THR:CG2	19:AT:56:VAL:CG1	2.85	0.44
19:AT:86:GLU:O	19:AT:89:LEU:N	2.50	0.44
21:AV:50:ALA:HB1	21:AV:57:HIS:CB	2.46	0.44
22:AW:23:ARG:CD	22:AW:24:LEU:N	2.78	0.44
22:AW:33:ILE:O	22:AW:34:LYS:C	2.53	0.44
22:AW:61:SER:HG	22:AW:62:LEU:H	1.65	0.44
22:AW:98:PRO:O	22:AW:99:LEU:C	2.54	0.44
48:B1:16:LEU:HD12	48:B1:16:LEU:O	2.18	0.44
48:B1:36:ILE:CG2	48:B1:37:GLY:H	2.17	0.44
48:B1:37:GLY:O	48:B1:38:GLN:HB2	2.17	0.44
49:B2:41:PRO:HA	49:B2:44:ARG:NE	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:20:ASN:CB	50:B3:30:GLU:OE2	2.64	0.44
50:B3:35:VAL:CG1	50:B3:36:CYS:N	2.79	0.44
50:B3:57:GLU:H	50:B3:61:ARG:HG2	1.82	0.44
50:B3:6:HIS:CB	50:B3:7:PRO:HD3	2.46	0.44
52:B5:20:ASN:HD22	52:B5:43:CYS:H	1.62	0.44
52:B5:49:HIS:HB3	52:B5:50:ARG:H	1.61	0.44
24:BA:1309:G:H5''	53:B6:9:ARG:H	1.81	0.44
54:B7:44:LYS:CE	54:B7:44:LYS:HA	2.46	0.44
24:BA:1024:G:P	24:BA:1025:G:H3'	2.58	0.44
24:BA:1044:G:O4'	24:BA:1047:G:O2'	2.33	0.44
24:BA:1053:C:C4	24:BA:1054:A:C6	3.05	0.44
24:BA:1142:U:C6	24:BA:1142(A):A:C8	2.84	0.44
24:BA:1182:A:H3'	24:BA:1183:G:C3'	2.28	0.44
24:BA:1196:C:C2	24:BA:1197:G:C8	3.05	0.44
24:BA:1198:U:C2	24:BA:1199:U:C5	3.05	0.44
24:BA:1444(A):A:C8	24:BA:1460:A:C2'	3.00	0.44
24:BA:1332:G:C4	24:BA:1609:A:C6	3.05	0.44
24:BA:1621:U:C3'	24:BA:1621:U:C6	2.99	0.44
24:BA:1668:A:O2'	24:BA:1669:A:C4	2.63	0.44
24:BA:1798:U:N3	24:BA:1819:A:C2	2.84	0.44
24:BA:191:A:N3	24:BA:192:C:H1'	2.32	0.44
24:BA:1992:G:O2'	24:BA:1993:U:H5	2.00	0.44
24:BA:2049:G:O2'	24:BA:2050:C:P	2.75	0.44
24:BA:2090:G:C6	24:BA:2230:G:C6	3.05	0.44
24:BA:2309:A:C4	24:BA:2310:A:C8	3.05	0.44
24:BA:2306:C:N4	24:BA:2311:A:C2	2.83	0.44
24:BA:233:A:C2'	24:BA:234:C:O5'	2.64	0.44
24:BA:2383:G:N2	24:BA:2384:G:C4	2.86	0.44
24:BA:2392:A:N6	24:BA:2393:A:C6	2.85	0.44
24:BA:2457:U:O4	24:BA:2458:G:N2	2.50	0.44
24:BA:2507:C:C1'	24:BA:2583:G:N2	2.80	0.44
24:BA:2593:U:O4	27:BD:239:ARG:CZ	2.65	0.44
24:BA:2624:G:C3'	24:BA:2625:G:H5''	2.47	0.44
24:BA:2692:C:HO2'	24:BA:2847:U:C2'	2.26	0.44
24:BA:2694:G:H2'	24:BA:2695:C:O5'	2.16	0.44
24:BA:2695:C:O2	24:BA:2696:U:C5	2.70	0.44
24:BA:2715:C:C2	24:BA:2716:U:C5	3.05	0.44
24:BA:278:A:H2'	24:BA:279:C:C6	2.52	0.44
24:BA:2849:U:H3	24:BA:2867:G:H1'	1.82	0.44
24:BA:2897:U:H2'	24:BA:2898:U:H6	1.82	0.44
24:BA:322:A:O5'	24:BA:341:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:348:G:C4	24:BA:349:G:N7	2.85	0.44
24:BA:398:G:N2	24:BA:399:G:H1'	2.33	0.44
24:BA:422:A:C2'	24:BA:423:A:O5'	2.65	0.44
24:BA:446:G:OP1	41:BT:3:ARG:HD3	2.17	0.44
24:BA:597:U:H2'	24:BA:598:G:C8	2.51	0.44
24:BA:609:A:N6	24:BA:609(A):G:O6	2.49	0.44
24:BA:614:U:C5'	24:BA:615:G:OP2	2.64	0.44
24:BA:618(A):C:OP2	29:BF:107:LYS:NZ	2.49	0.44
24:BA:702:G:C2'	24:BA:703:U:C5'	2.94	0.44
24:BA:76:C:OP2	24:BA:76:C:C5	2.70	0.44
24:BA:785:G:N3	24:BA:786:C:C6	2.85	0.44
24:BA:813:U:H2'	24:BA:814:C:C6	2.51	0.44
24:BA:813:U:H2'	24:BA:814:C:H6	1.82	0.44
24:BA:890:A:H5'	24:BA:892:G:H5''	2.00	0.44
24:BA:945:A:H3'	24:BA:946:G:C5'	2.47	0.44
24:BA:980:A:N3	24:BA:2037:G:O2'	2.42	0.44
25:BB:46:A:H2'	25:BB:47:C:O4'	2.17	0.44
27:BD:183:ARG:CZ	27:BD:268:ARG:HD2	2.46	0.44
27:BD:173:VAL:O	27:BD:184:LYS:CG	2.65	0.44
27:BD:57:GLY:N	27:BD:217:ARG:CD	2.73	0.44
27:BD:63:ARG:NH1	27:BD:87:ASN:ND2	2.56	0.44
28:BE:97:LYS:O	28:BE:100:GLU:OE1	2.35	0.44
28:BE:128:SER:OG	28:BE:129:HIS:CD2	2.67	0.44
28:BE:13:ARG:CZ	28:BE:21:VAL:N	2.80	0.44
28:BE:169:ASN:C	28:BE:170:LEU:HD23	2.35	0.44
28:BE:172:VAL:O	28:BE:174:ASP:N	2.50	0.44
28:BE:195:LEU:HD13	28:BE:196:VAL:CA	2.42	0.44
28:BE:33:VAL:CG2	28:BE:34:VAL:N	2.80	0.44
28:BE:59:VAL:HG12	28:BE:61:ARG:N	2.32	0.44
29:BF:34:TRP:HB3	29:BF:38:ARG:NH2	2.31	0.44
30:BG:77:ILE:O	30:BG:78:SER:C	2.56	0.44
30:BG:4:ASP:C	30:BG:7:LEU:HB2	2.37	0.44
24:BA:2309:A:N6	30:BG:80:PHE:CZ	2.85	0.44
30:BG:78:SER:CB	30:BG:82:LEU:HB3	2.45	0.44
31:BH:159:GLU:OE2	31:BH:163:TYR:CE1	2.70	0.44
33:BL:10:LEU:HB2	33:BL:12:LEU:HD21	1.99	0.44
33:BL:37:PHE:HE2	33:BL:65:PHE:CB	2.28	0.44
34:BM:99:LEU:O	34:BM:103:VAL:HG13	2.17	0.44
34:BM:16:ILE:O	34:BM:54:VAL:CG2	2.64	0.44
34:BM:39:ARG:HG2	34:BM:40:PRO:N	2.32	0.44
34:BM:86:PRO:CD	34:BM:89:LYS:HD2	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:90:MET:HB3	34:BM:91:LEU:HD23	1.99	0.44
36:BO:117:GLU:O	36:BO:121:LYS:CG	2.58	0.44
36:BO:16:ARG:CG	36:BO:19:VAL:CG2	2.92	0.44
36:BO:23:PRO:HG2	36:BO:28:GLY:C	2.38	0.44
36:BO:23:PRO:HB3	36:BO:29:LYS:H	1.74	0.44
36:BO:74:GLU:HB2	36:BO:107:LYS:CD	2.47	0.44
36:BO:96:THR:HB	36:BO:99:LEU:CB	2.47	0.44
37:BP:17:LEU:C	37:BP:18:LYS:HG2	2.37	0.44
37:BP:56:ARG:O	37:BP:57:HIS:C	2.54	0.44
37:BP:75:THR:CG2	37:BP:77:LYS:CD	2.94	0.44
37:BP:85:LYS:HD2	47:BZ:10:THR:OG1	2.16	0.44
38:BQ:34:ILE:O	38:BQ:113:LEU:HD22	2.17	0.44
38:BQ:22:ARG:CD	38:BQ:69:ASP:O	2.65	0.44
38:BQ:96:ARG:HG3	38:BQ:98:LEU:HD11	1.96	0.44
41:BT:98:LEU:HD12	41:BT:105:VAL:HG11	1.99	0.44
41:BT:105:VAL:HG12	41:BT:106:PHE:N	2.32	0.44
41:BT:43:GLY:C	41:BT:45:TYR:N	2.68	0.44
41:BT:61:TRP:C	41:BT:65:ILE:HD11	2.37	0.44
43:BV:20:VAL:HG21	43:BV:47:VAL:HG21	1.99	0.44
43:BV:7:ALA:N	43:BV:103:ILE:CD1	2.80	0.44
44:BW:3:THR:N	44:BW:5:TYR:CE2	2.85	0.44
44:BW:4:ALA:HB3	48:B1:21:ARG:CZ	2.47	0.44
46:BY:25:PRO:O	46:BY:85:HIS:HD2	2.00	0.44
47:BZ:72:ARG:O	47:BZ:75:LEU:HD13	2.17	0.44
32:BK:97:ILE:HG22	32:BK:101:LEU:CD2	2.47	0.44
3:AD:16:U:H4'	3:AD:18:G:O5'	2.17	0.44
3:AD:50:U:C4	3:AD:65:G:C6	3.05	0.44
24:BA:2119:A:C6	24:BA:2170:A:C6	3.06	0.44
24:BA:2104:G:H2'	24:BA:2104:G:N3	2.33	0.44
24:BA:1284:A:O2'	24:BA:1285:G:H5'	2.17	0.44
24:BA:1040:C:OP2	24:BA:1040:C:H6	1.99	0.44
31:BH:10:PRO:O	31:BH:12:PRO:HD2	2.17	0.44
1:AA:1034:G:C2	1:AA:1035:A:N7	2.85	0.44
1:AA:1080:A:H4'	7:AH:16:THR:HG1	1.81	0.44
1:AA:1068:G:N2	1:AA:1191:A:N3	2.50	0.44
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.51	0.44
1:AA:1241:G:O2'	1:AA:1242:C:C5'	2.65	0.44
1:AA:1252:A:N6	1:AA:1253:G:C6	2.85	0.44
1:AA:1255:G:HO2'	1:AA:1258:G:HO2'	1.63	0.44
1:AA:1320:C:N3	21:AV:72:GLY:HA3	2.31	0.44
1:AA:1309:G:C6	1:AA:1329:A:C6	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1350:A:C5	1:AA:1351:U:C5	3.06	0.44
1:AA:1419:G:O2'	1:AA:1420:C:O5'	2.34	0.44
1:AA:1465:C:C2	1:AA:1466:C:C6	3.06	0.44
1:AA:1506:U:H3'	1:AA:1507:A:H5'	1.99	0.44
1:AA:119:A:N6	1:AA:287:U:C2	2.78	0.44
1:AA:321:A:C4	1:AA:322:C:C5	3.06	0.44
1:AA:483:C:O5'	1:AA:483:C:C6	2.69	0.44
1:AA:517:G:C8	1:AA:531:U:C6	3.06	0.44
1:AA:557:G:H3'	1:AA:558:G:H8	1.74	0.44
1:AA:26:A:N6	1:AA:558:G:H1'	2.32	0.44
1:AA:563:A:O2'	1:AA:566:G:H2'	2.17	0.44
1:AA:579:G:H2'	1:AA:580:U:H6	1.82	0.44
1:AA:632:A:H2'	1:AA:633:G:O4'	2.16	0.44
1:AA:696:A:C2	1:AA:697:U:C1'	3.00	0.44
1:AA:720:C:C4	1:AA:721:G:H2'	2.51	0.44
1:AA:836:G:N1	1:AA:837:G:C5	2.85	0.44
1:AA:878:G:OP1	10:AK:88:LYS:HB2	2.17	0.44
3:AB:52:G:H4'	24:BA:2471:C:C5'	2.46	0.44
3:AC:17:C:H4'	3:AC:17:C:OP2	2.16	0.44
3:AC:20:U:OP1	3:AC:20:U:O4'	2.35	0.44
1:AA:1339:A:H2	3:AC:31:A:HO2'	1.58	0.44
3:AC:31:A:C5'	3:AC:32:U:OP2	2.62	0.44
4:AE:80:ILE:HG13	4:AE:239:VAL:HG21	2.00	0.44
4:AE:87:ARG:CZ	4:AE:87:ARG:HB3	2.46	0.44
5:AF:96:GLY:O	5:AF:98:ASN:N	2.49	0.44
6:AG:39:PRO:HG2	6:AG:44:GLY:O	2.17	0.44
7:AH:23:GLY:HA3	7:AH:25:ARG:CZ	2.45	0.44
7:AH:71:LEU:HD11	7:AH:74:GLY:CA	2.37	0.44
7:AH:91:LEU:HD12	7:AH:118:ILE:HG21	1.97	0.44
8:AI:95:GLU:N	8:AI:96:PRO:CD	2.64	0.44
9:AJ:146:GLU:HG2	9:AJ:149:ARG:HD2	1.99	0.44
9:AJ:69:VAL:HG13	9:AJ:135:VAL:HA	1.98	0.44
10:AK:26:VAL:CG2	10:AK:27:PRO:CD	2.87	0.44
10:AK:44:PHE:HA	10:AK:79:VAL:CG1	2.47	0.44
10:AK:6:ILE:CG2	10:AK:7:ALA:N	2.59	0.44
13:AN:84:VAL:HG11	20:AU:88:LYS:HE2	1.98	0.44
15:AP:13:LYS:HD3	15:AP:17:VAL:CG1	2.46	0.44
18:AS:16:HIS:C	18:AS:17:TYR:HD1	2.19	0.44
1:AA:230:G:OP1	18:AS:33:ILE:HG12	2.18	0.44
20:AU:86:VAL:O	20:AU:87:ARG:CB	2.59	0.44
21:AV:36:ARG:HA	21:AV:71:LEU:HD13	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:13:LEU:CD1	22:AW:13:LEU:N	2.57	0.44
48:B1:24:LYS:HG2	48:B1:52:ILE:HD13	1.98	0.44
49:B2:17:LYS:HA	49:B2:20:LYS:CD	2.47	0.44
49:B2:45:GLY:O	49:B2:48:GLU:CG	2.50	0.44
50:B3:29:PRO:O	50:B3:31:ILE:CD1	2.65	0.44
43:BV:23:LEU:HG	51:B4:25:LEU:HG	1.99	0.44
51:B4:29:THR:C	51:B4:30:LEU:CG	2.85	0.44
54:B7:15:LYS:HZ1	54:B7:64:TYR:HB3	1.83	0.44
24:BA:2526:G:O2'	55:B8:35:ARG:NH2	2.49	0.44
24:BA:1022:G:C6	24:BA:1139:G:C6	3.05	0.44
24:BA:1203:G:O6	24:BA:1240:U:C2'	2.62	0.44
24:BA:1207:C:N3	24:BA:1208:C:C4	2.86	0.44
24:BA:1228:G:C8	24:BA:1228:G:H5'	2.52	0.44
24:BA:1267:U:C4	24:BA:2012:G:N2	2.86	0.44
24:BA:1353:A:C2'	24:BA:1354:A:O4'	2.65	0.44
24:BA:1385:G:C6	24:BA:1386:C:N4	2.85	0.44
24:BA:1432:C:N3	24:BA:1433:U:C2	2.85	0.44
24:BA:1449:A:O4'	24:BA:1529:A:C6	2.70	0.44
24:BA:1491:G:C2	24:BA:1493:C:N4	2.78	0.44
24:BA:1477:A:C2	24:BA:1516:U:O2	2.70	0.44
24:BA:1662:C:N3	24:BA:1663:C:C4	2.85	0.44
24:BA:173:G:N2	24:BA:174:C:N1	2.66	0.44
24:BA:1819:A:O2'	24:BA:1820:U:O5'	2.35	0.44
24:BA:1899:G:N2	24:BA:1901:A:C6	2.85	0.44
24:BA:1947:C:N3	24:BA:1948:G:N7	2.64	0.44
24:BA:196:A:H3'	24:BA:197:A:C5'	2.43	0.44
24:BA:2011:U:C3'	24:BA:2012:G:H8	2.30	0.44
24:BA:2084:C:O2'	24:BA:2085:C:H5'	2.17	0.44
24:BA:210:C:H5''	53:B6:29:LYS:HZ3	1.82	0.44
24:BA:2210:G:HO2'	24:BA:2211:G:P	2.40	0.44
24:BA:228:A:N6	24:BA:230:U:C2	2.86	0.44
24:BA:2356:C:H2'	24:BA:2357:U:O5'	2.18	0.44
24:BA:2568:C:O5'	24:BA:2568:C:H6	2.00	0.44
24:BA:2657:A:N7	24:BA:2658:C:C5	2.85	0.44
24:BA:2661:G:C4	24:BA:2662:A:C8	3.05	0.44
24:BA:2681:C:C2'	24:BA:2682:U:H5'	2.45	0.44
24:BA:2687:U:O2	24:BA:2688:U:O4'	2.35	0.44
24:BA:2697:G:HO2'	24:BA:2698:U:H5'	1.82	0.44
24:BA:270(C):C:P	24:BA:365:C:H1'	2.58	0.44
24:BA:2710:C:H2'	24:BA:2711:A:C5'	2.47	0.44
24:BA:2726:U:O2'	24:BA:2727:G:OP1	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2642:G:C2	24:BA:2773:C:C2	3.05	0.44
24:BA:2825:C:C2	24:BA:2826:A:C8	3.05	0.44
24:BA:2839:G:C6	24:BA:2840:C:C4	3.05	0.44
24:BA:2839:G:H2'	24:BA:2840:C:O4'	2.17	0.44
24:BA:297:C:H3'	24:BA:298:G:N7	2.31	0.44
24:BA:325:G:C8	24:BA:325:G:H3'	2.53	0.44
24:BA:332:A:C2'	24:BA:334:C:OP2	2.65	0.44
24:BA:370:G:C2'	24:BA:371:A:O5'	2.65	0.44
24:BA:447:A:C6	24:BA:473:G:C1'	3.00	0.44
24:BA:456:C:N4	44:BW:68:ARG:HB3	2.32	0.44
24:BA:539:G:O5'	24:BA:539:G:H8	2.00	0.44
24:BA:542:C:C4	24:BA:552:G:N1	2.85	0.44
24:BA:601:C:C2'	24:BA:601:C:O2	2.61	0.44
24:BA:617:G:N7	24:BA:618:G:N7	2.64	0.44
24:BA:660:G:C6	24:BA:661:C:C4	3.05	0.44
24:BA:727:A:H2'	24:BA:728:G:C5'	2.43	0.44
24:BA:748:G:H5'	43:BV:88:ARG:CZ	2.47	0.44
24:BA:850:C:O2	24:BA:851:U:C6	2.70	0.44
24:BA:919:G:C4	24:BA:920:G:N7	2.86	0.44
25:BB:21:G:C2	25:BB:63:G:C6	3.04	0.44
27:BD:54:ARG:CA	27:BD:219:PRO:CG	2.90	0.44
28:BE:178:GLU:HB3	28:BE:179:GLU:OE2	2.17	0.44
24:BA:2787:C:H4'	28:BE:60:ASN:OD1	2.17	0.44
28:BE:66:HIS:O	28:BE:68:ALA:N	2.50	0.44
29:BF:12:LEU:HD22	29:BF:128:ALA:HA	1.98	0.44
30:BG:157:ILE:CG1	30:BG:158:ALA:N	2.79	0.44
30:BG:50:ALA:HA	30:BG:70:VAL:HG22	2.00	0.44
31:BH:75:ALA:O	31:BH:79:VAL:HG13	2.17	0.44
32:BK:6:LEU:C	32:BK:6:LEU:HD23	2.37	0.44
33:BL:27:LEU:CA	33:BL:32:ALA:HB3	2.47	0.44
34:BM:109:LYS:HE3	34:BM:111:PRO:HD2	1.99	0.44
34:BM:38:HIS:O	34:BM:42:TRP:HZ3	2.00	0.44
34:BM:89:LYS:O	34:BM:92:ALA:HB3	2.17	0.44
35:BN:3:GLN:C	35:BN:3:GLN:CD	2.76	0.44
36:BO:128:HIS:CG	36:BO:129:ALA:N	2.74	0.44
36:BO:51:PHE:O	36:BO:52:GLU:C	2.54	0.44
36:BO:77:ARG:HA	36:BO:78:PRO:HD2	1.90	0.44
37:BP:67:ARG:NH2	37:BP:103:MET:CB	2.78	0.44
38:BQ:53:HIS:C	38:BQ:53:HIS:HD1	2.21	0.44
24:BA:2820:A:OP1	38:BQ:5:LYS:CE	2.65	0.44
38:BQ:63:ARG:HH12	38:BQ:80:PHE:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:64:ARG:NH1	40:BS:78:LEU:N	2.65	0.44
40:BS:93:ARG:CG	40:BS:95:ARG:NH1	2.80	0.44
43:BV:11:ARG:O	43:BV:11:ARG:CG	2.62	0.44
43:BV:10:VAL:CB	43:BV:12:ILE:HD11	2.45	0.44
43:BV:18:ARG:CD	43:BV:76:VAL:H	2.29	0.44
43:BV:79:GLY:HA3	43:BV:102:HIS:CE1	2.52	0.44
44:BW:50:LYS:NZ	44:BW:87:GLN:H	2.15	0.44
46:BY:18:LEU:CB	46:BY:23:LYS:O	2.61	0.44
46:BY:6:LYS:HA	46:BY:37:VAL:HG13	1.97	0.44
32:BK:114:LEU:O	32:BK:131:LYS:HE3	2.17	0.44
32:BK:81:VAL:CG1	32:BK:88:ILE:HG12	2.47	0.44
24:BA:2111:C:N4	24:BA:2144:U:O2'	2.45	0.44
26:BC:162:GLU:O	26:BC:163:PHE:HD2	1.98	0.44
1:AA:1382:C:C4	1:AA:1383:C:N4	2.83	0.44
24:BA:2182:G:C6	24:BA:2183:C:C4	3.04	0.44
33:BL:47:ASN:OD1	33:BL:47:ASN:O	2.34	0.44
22:AW:94:ALA:O	22:AW:95:ALA:HB3	2.17	0.44
1:AA:1000:A:N6	1:AA:1001:G:O6	2.50	0.44
1:AA:1025:U:O2	1:AA:1026:G:O6	2.36	0.44
1:AA:1068:G:O2'	1:AA:1069:C:C5'	2.55	0.44
1:AA:110:C:H6	1:AA:110:C:P	2.40	0.44
1:AA:1148:U:O2	1:AA:1149:C:C1'	2.66	0.44
1:AA:1152:A:N1	1:AA:1153:C:C4	2.86	0.44
1:AA:122:G:C2	1:AA:123:C:C1'	3.00	0.44
1:AA:1268:A:C2'	1:AA:1269:A:O5'	2.65	0.44
1:AA:1477:C:H2'	1:AA:1478:C:O4'	2.17	0.44
1:AA:251:G:O4'	1:AA:252:U:H5	2.00	0.44
1:AA:279:A:H5'	1:AA:280:C:C3'	2.33	0.44
1:AA:46:G:N3	1:AA:396:G:N1	2.66	0.44
1:AA:483:C:OP2	1:AA:483:C:C6	2.71	0.44
1:AA:580:U:C5'	17:AR:58:MET:HG2	2.48	0.44
1:AA:641:U:O2'	1:AA:642:A:N7	2.50	0.44
1:AA:644:G:H2'	1:AA:645:C:C5'	2.48	0.44
1:AA:692:U:C2	1:AA:694:A:OP2	2.71	0.44
1:AA:701:C:H1'	1:AA:703:G:C6	2.53	0.44
1:AA:706:A:H2'	1:AA:707:C:O5'	2.17	0.44
1:AA:828:A:C8	1:AA:829:G:N9	2.85	0.44
1:AA:867:G:C2	1:AA:868:C:C4	3.06	0.44
1:AA:89:U:N3	1:AA:90:C:C4	2.85	0.44
1:AA:943:U:H6	1:AA:943:U:O5'	2.00	0.44
1:AA:965:A:N7	1:AA:969:A:N3	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:16:U:H4'	3:AB:60:U:O2'	2.17	0.44
3:AB:75:C:C4	3:AB:76:A:H2	2.34	0.44
3:AC:57:G:O4'	30:BG:82:LEU:HD22	2.17	0.44
3:AC:72:C:C2'	3:AC:73:A:C8	2.95	0.44
4:AE:132:LYS:NZ	4:AE:132:LYS:HB3	2.29	0.44
4:AE:140:HIS:HA	4:AE:143:GLU:HB3	1.99	0.44
4:AE:171:ALA:N	4:AE:174:VAL:HG23	2.32	0.44
1:AA:1111:A:N1	5:AF:177:THR:HB	2.33	0.44
5:AF:5:ILE:HG22	12:AM:51:ARG:HH22	1.83	0.44
6:AG:120:LEU:HG	6:AG:121:VAL:H	1.82	0.44
6:AG:135:LEU:HB2	6:AG:138:TYR:HB2	1.99	0.44
7:AH:82:VAL:HB	7:AH:138:ALA:HB2	2.00	0.44
8:AI:30:LEU:CB	8:AI:35:ALA:HB3	2.44	0.44
8:AI:41:GLU:CB	8:AI:62:TRP:HE3	2.26	0.44
9:AJ:126:ASP:CA	9:AJ:131:LYS:HG3	2.47	0.44
9:AJ:77:SER:HA	9:AJ:85:TYR:O	2.17	0.44
11:AL:10:ARG:NE	11:AL:75:ASP:OD2	2.51	0.44
11:AL:50:LEU:HD21	11:AL:56:LEU:HB2	1.99	0.44
12:AM:33:GLN:O	12:AM:34:VAL:CB	2.64	0.44
12:AM:5:ARG:CG	12:AM:5:ARG:HH11	2.30	0.44
12:AM:6:ILE:CD1	12:AM:73:ASP:H	2.30	0.44
1:AA:718:G:C4	13:AN:116:HIS:NE2	2.84	0.44
13:AN:66:LEU:HB3	13:AN:70:LYS:HZ2	1.81	0.44
13:AN:85:ARG:CG	13:AN:85:ARG:NH1	2.79	0.44
13:AN:87:THR:HA	13:AN:91:ARG:HH12	1.77	0.44
16:AQ:34:TYR:OH	16:AQ:41:ARG:CA	2.65	0.44
5:AF:29:TYR:CE2	16:AQ:54:PRO:HB2	2.51	0.44
17:AR:24:SER:O	17:AR:28:GLN:HG2	2.17	0.44
1:AA:729:A:H62	17:AR:51:HIS:CD2	2.36	0.44
17:AR:54:ARG:O	17:AR:55:GLY:C	2.56	0.44
17:AR:63:ARG:O	17:AR:64:ARG:C	2.56	0.44
20:AU:37:VAL:HG12	20:AU:41:LYS:HZ2	1.77	0.44
20:AU:52:PRO:CG	20:AU:54:ARG:HB3	2.45	0.44
21:AV:37:ARG:HH11	21:AV:70:LYS:HD3	1.82	0.44
23:AX:12:LYS:O	23:AX:13:ILE:C	2.56	0.44
24:BA:400:G:N2	50:B3:63:TYR:OH	2.50	0.44
52:B5:10:LEU:HD12	52:B5:28:ARG:HH21	1.82	0.44
54:B7:6:THR:HG23	54:B7:9:GLY:N	2.33	0.44
24:BA:1144:G:C5	24:BA:1145:C:N4	2.85	0.44
24:BA:1151:G:H2'	24:BA:1152:C:H6	1.76	0.44
24:BA:125:G:N2	53:B6:10:ARG:CA	2.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1294:U:C2'	24:BA:1295:C:H5'	2.48	0.44
24:BA:1316:U:H2'	24:BA:1317:A:C8	2.53	0.44
24:BA:1323:U:C2'	24:BA:1324:G:OP1	2.65	0.44
24:BA:1359:A:C8	24:BA:1359:A:C4'	3.00	0.44
24:BA:1471:A:N7	24:BA:1521:G:C2	2.86	0.44
24:BA:147:U:H2'	24:BA:148:C:C5	2.51	0.44
24:BA:1552:G:N3	24:BA:1552:G:H2'	2.32	0.44
24:BA:1660:C:C2'	24:BA:1661:G:O5'	2.65	0.44
24:BA:1697:G:H3'	24:BA:1697:G:C8	2.52	0.44
24:BA:1754:C:C4	24:BA:1755:A:C5	3.05	0.44
24:BA:1784:A:C1'	24:BA:1785:A:N7	2.80	0.44
24:BA:1855:G:C6	24:BA:1856:G:N7	2.85	0.44
24:BA:188:G:H5'	24:BA:1365:A:N3	2.32	0.44
24:BA:1974:C:C2	24:BA:1975:G:C8	3.06	0.44
24:BA:1977:A:H2	24:BA:1978:A:H1'	1.82	0.44
24:BA:20:C:H2'	24:BA:21:A:H8	1.82	0.44
24:BA:2199:A:C2	24:BA:2205:C:N1	2.86	0.44
24:BA:2259:G:H2'	24:BA:2260:C:H6	1.82	0.44
24:BA:2307:G:O2'	24:BA:2311:A:N7	2.50	0.44
24:BA:2397:G:O2'	24:BA:2398:U:H5'	2.18	0.44
24:BA:2407:G:N3	24:BA:2407:G:H2'	2.31	0.44
24:BA:239:U:C2'	24:BA:240:G:O4'	2.63	0.44
24:BA:2655:G:N3	24:BA:2664:G:O6	2.51	0.44
24:BA:270(C):C:O2'	24:BA:270(D):C:C5'	2.62	0.44
24:BA:1638:C:C5'	24:BA:2710:C:H1'	2.47	0.44
24:BA:2718:G:C2	24:BA:2719:G:C4	3.05	0.44
24:BA:2820:A:N7	28:BE:191:PRO:HB3	2.33	0.44
24:BA:2876:G:C2	24:BA:2877:G:C5	3.06	0.44
24:BA:28:A:C2	24:BA:29:U:C4'	3.01	0.44
24:BA:390:A:P	24:BA:390:A:H3'	2.57	0.44
24:BA:4:C:C2	24:BA:5:A:N7	2.85	0.44
24:BA:562:U:O2	24:BA:572:A:O4'	2.35	0.44
24:BA:60:G:HO2'	24:BA:61:G:P	2.39	0.44
24:BA:612:G:C4'	24:BA:616:A:N1	2.80	0.44
24:BA:625:G:N1	24:BA:626:U:H1'	2.32	0.44
24:BA:633:A:H3'	24:BA:634:C:O4'	2.18	0.44
24:BA:669:G:C4	24:BA:801:G:N1	2.86	0.44
24:BA:729:G:C5	24:BA:730:C:N1	2.85	0.44
24:BA:735:A:C8	24:BA:735:A:H3'	2.52	0.44
24:BA:763:G:C5	24:BA:765:G:C8	3.05	0.44
24:BA:813:U:C5	36:BO:25:SER:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:84:A:H5'	24:BA:85:G:OP1	2.17	0.44
24:BA:874:G:C2	24:BA:875:G:C8	3.06	0.44
24:BA:902:C:N4	24:BA:903:C:N4	2.66	0.44
24:BA:915:C:C2'	24:BA:916:G:H8	2.28	0.44
24:BA:943:U:C2'	24:BA:944:G:OP1	2.65	0.44
25:BB:33:G:C2'	25:BB:34:U:H6	2.27	0.44
27:BD:199:ALA:O	27:BD:202:LYS:CB	2.60	0.44
27:BD:198:ASN:HD21	27:BD:201:HIS:HB2	1.83	0.44
24:BA:1816:G:OP1	27:BD:43:ARG:NH2	2.51	0.44
27:BD:49:ILE:HD12	27:BD:49:ILE:N	2.31	0.44
28:BE:91:VAL:HG23	28:BE:180:ASN:ND2	2.31	0.44
28:BE:51:PHE:CD1	28:BE:76:ARG:CG	2.98	0.44
28:BE:8:LYS:C	28:BE:8:LYS:CD	2.85	0.44
29:BF:109:GLY:O	29:BF:112:MET:N	2.50	0.44
29:BF:11:VAL:CG2	29:BF:126:VAL:HG12	2.47	0.44
29:BF:137:LYS:HB3	29:BF:137:LYS:HZ2	1.82	0.44
24:BA:675:A:H5''	29:BF:67:GLN:NE2	2.32	0.44
30:BG:103:LEU:C	30:BG:103:LEU:HD12	2.38	0.44
30:BG:144:ILE:HG23	30:BG:145:THR:O	2.16	0.44
30:BG:55:LYS:HG3	30:BG:148:MET:CG	2.46	0.44
31:BH:140:LYS:O	31:BH:143:GLN:HB2	2.17	0.44
31:BH:19:VAL:HG12	31:BH:24:VAL:CG1	2.37	0.44
32:BK:32:PRO:CD	32:BK:33:ARG:HG2	2.42	0.44
32:BK:43:ASN:N	32:BK:43:ASN:ND2	2.61	0.44
33:BL:17:ALA:O	33:BL:18:THR:CG2	2.63	0.44
34:BM:34:LEU:CD2	34:BM:120:LEU:HD13	2.46	0.44
34:BM:95:PRO:HG2	34:BM:96:GLU:N	2.33	0.44
35:BN:120:GLU:O	35:BN:121:VAL:C	2.56	0.44
24:BA:811:U:O4	36:BO:23:PRO:CD	2.65	0.44
36:BO:99:LEU:HD22	36:BO:101:VAL:CG1	2.45	0.44
37:BP:64:ILE:CG2	37:BP:106:VAL:O	2.65	0.44
38:BQ:66:VAL:O	38:BQ:69:ASP:N	2.50	0.44
38:BQ:26:LYS:NZ	38:BQ:70:LEU:O	2.32	0.44
39:BR:40:ILE:HD12	39:BR:40:ILE:N	2.32	0.44
39:BR:58:LEU:O	39:BR:60:GLY:N	2.50	0.44
40:BS:28:VAL:HG22	40:BS:93:ARG:CA	2.46	0.44
41:BT:17:ILE:HD13	41:BT:20:LEU:HD11	1.99	0.44
24:BA:581:C:O3'	41:BT:32:PHE:CE2	2.70	0.44
41:BT:93:LYS:HA	41:BT:93:LYS:CE	2.43	0.44
41:BT:96:ALA:O	41:BT:97:ASP:C	2.54	0.44
42:BU:20:LEU:HD13	42:BU:95:LEU:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:4:LYS:HG2	43:BV:4:LYS:H	1.39	0.44
43:BV:59:VAL:C	43:BV:63:ASP:HA	2.36	0.44
45:BX:86:ARG:CA	45:BX:91:GLU:HB3	2.47	0.44
45:BX:8:LYS:O	45:BX:9:LYS:C	2.55	0.44
46:BY:14:LYS:CD	46:BY:14:LYS:N	2.80	0.44
46:BY:14:LYS:O	46:BY:15:PRO:C	2.53	0.44
46:BY:31:ARG:HG2	46:BY:31:ARG:NH1	2.32	0.44
46:BY:6:LYS:CD	46:BY:35:ARG:HD3	2.44	0.44
32:BK:50:ARG:HA	32:BK:53:ALA:HB3	2.00	0.44
32:BK:76:THR:CA	32:BK:77:LEU:HD23	2.46	0.44
3:AD:18:G:H2'	3:AD:19:G:C5'	2.46	0.44
3:AD:48:C:C4	3:AD:59:U:C2	3.06	0.44
3:AD:7:A:H2'	3:AD:8:U:OP1	2.18	0.44
24:BA:2114:A:H2'	24:BA:2115:G:O4'	2.17	0.44
24:BA:2115:G:H2'	24:BA:2117:A:C5	2.46	0.44
24:BA:2121:G:O2'	26:BC:167:LYS:HG2	2.17	0.44
24:BA:2125:G:N2	24:BA:2172:U:C5'	2.80	0.44
26:BC:103:ILE:HD13	26:BC:127:LEU:HD11	1.99	0.44
26:BC:28:LEU:O	26:BC:32:LEU:CG	2.66	0.44
26:BC:46:LYS:HE2	26:BC:210:ARG:HE	1.82	0.44
26:BC:87:GLU:HA	26:BC:91:ALA:HB3	1.99	0.44
1:AA:131:C:C4	1:AA:232:G:N1	2.85	0.44
24:BA:1581:G:C2'	24:BA:1582:C:H5'	2.47	0.44
3:AD:43:C:H2'	3:AD:44:G:C8	2.52	0.44
39:BR:112:PHE:C	39:BR:112:PHE:CD1	2.91	0.44
1:AA:1142:G:H2'	1:AA:1143:G:C8	2.41	0.44
1:AA:1227:A:C8	1:AA:1228:C:C6	3.06	0.44
1:AA:1352:C:H1'	1:AA:1371:G:N2	2.32	0.44
1:AA:1362:C:O2'	1:AA:1362(A):C:C6	2.71	0.44
1:AA:1394:A:C3'	1:AA:1395:C:H5'	2.47	0.44
1:AA:1395:C:H2'	1:AA:1396:A:C8	2.50	0.44
1:AA:1451:A:H5''	1:AA:1452:C:C5	2.50	0.44
1:AA:104:G:H5'	1:AA:172:A:N1	2.32	0.44
1:AA:210:U:H5'	1:AA:216:G:OP1	2.17	0.44
1:AA:251:G:H4'	1:AA:252:U:OP1	2.17	0.44
1:AA:258:G:H2'	1:AA:259:G:C8	2.52	0.44
1:AA:370:C:C2'	1:AA:371:G:H5'	2.46	0.44
1:AA:397:A:H2'	1:AA:399:G:OP2	2.17	0.44
1:AA:399:G:C6	1:AA:400:C:C4	3.05	0.44
1:AA:411:A:C6	1:AA:429:U:C4	3.06	0.44
1:AA:414:A:C4	1:AA:415:A:C8	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:548:G:H2'	1:AA:549:C:O5'	2.18	0.44
1:AA:689:C:H2'	1:AA:689:C:O2	2.16	0.44
1:AA:737:A:C2'	1:AA:738:C:O5'	2.66	0.44
1:AA:779:C:O2'	1:AA:780:A:H5'	2.18	0.44
1:AA:791:G:C5	1:AA:792:A:N7	2.85	0.44
1:AA:872:A:O2'	1:AA:873:A:C5'	2.58	0.44
1:AA:935:A:C6	1:AA:936:C:N4	2.85	0.44
1:AA:942:G:C2	1:AA:943:U:C6	3.05	0.44
1:AA:947:G:O3'	15:AP:109:THR:OG1	2.24	0.44
1:AA:962:C:C4	1:AA:963:G:N7	2.85	0.44
3:AD:4:C:H2'	3:AD:5:G:O4'	2.17	0.44
4:AE:61:LEU:CA	4:AE:64:ARG:HH11	2.31	0.44
5:AF:6:HIS:CD2	16:AQ:49:HIS:ND1	2.85	0.44
5:AF:83:ARG:C	5:AF:85:ARG:N	2.67	0.44
6:AG:107:ARG:HD2	6:AG:173:TRP:CZ2	2.52	0.44
6:AG:198:VAL:CG2	6:AG:199:ASN:H	2.14	0.44
7:AH:91:LEU:CD1	7:AH:118:ILE:HG23	2.47	0.44
8:AI:14:LEU:O	8:AI:15:ASP:HB3	2.17	0.44
9:AJ:14:PRO:HG3	9:AJ:21:VAL:HG13	1.99	0.44
9:AJ:6:ARG:O	9:AJ:7:ALA:HB3	2.17	0.44
10:AK:9:MET:SD	10:AK:32:LYS:HB2	2.57	0.44
11:AL:101:PHE:C	11:AL:102:LEU:CD2	2.81	0.44
11:AL:27:THR:HA	11:AL:31:GLN:O	2.17	0.44
11:AL:47:LEU:CD1	11:AL:51:ARG:HH12	2.30	0.44
11:AL:96:LEU:O	11:AL:100:GLY:CA	2.62	0.44
12:AM:22:LYS:HZ2	12:AM:90:LEU:CD1	2.26	0.44
13:AN:42:TRP:CZ3	13:AN:47:VAL:HG21	2.52	0.44
14:AO:41:ARG:HG2	14:AO:42:THR:HG22	2.00	0.44
14:AO:60:LEU:CD2	14:AO:64:TYR:HB3	2.46	0.44
1:AA:880:C:P	14:AO:9:GLN:NE2	2.91	0.44
15:AP:98:VAL:HB	15:AP:110:ARG:HH21	1.82	0.44
1:AA:1329:A:C5'	15:AP:29:ARG:CZ	2.94	0.44
15:AP:39:ILE:HG21	15:AP:56:LEU:HD13	1.99	0.44
1:AA:750:G:C2'	17:AR:23:GLY:O	2.66	0.44
17:AR:33:THR:O	17:AR:34:LEU:C	2.56	0.44
18:AS:10:GLY:CA	18:AS:14:ASN:ND2	2.81	0.44
20:AU:74:ARG:O	20:AU:77:GLY:HA2	2.17	0.44
21:AV:21:GLU:O	21:AV:24:ALA:HB2	2.17	0.44
21:AV:38:SER:OG	21:AV:39:THR:N	2.50	0.44
22:AW:57:ARG:CZ	22:AW:100:ILE:HD12	2.47	0.44
24:BA:1809:A:H61	50:B3:3:GLU:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:42:PHE:N	50:B3:58:ARG:HG3	2.31	0.44
51:B4:25:LEU:O	51:B4:25:LEU:CG	2.57	0.44
51:B4:35:GLU:HB3	51:B4:49:CYS:HB2	1.96	0.44
51:B4:46:CYS:O	51:B4:48:GLU:N	2.41	0.44
53:B6:43:THR:C	53:B6:46:VAL:HB	2.37	0.44
54:B7:26:LYS:HB2	54:B7:44:LYS:NZ	2.31	0.44
54:B7:34:TRP:HA	54:B7:36:LYS:HB2	2.00	0.44
36:BO:45:LEU:CD1	54:B7:3:LYS:NZ	2.80	0.44
24:BA:1065:U:H2'	24:BA:1066:U:H5''	1.99	0.44
24:BA:1076:C:O2	33:BL:91:PRO:HD2	2.17	0.44
24:BA:1106:G:N7	24:BA:1106:G:OP2	2.51	0.44
24:BA:1210:A:H4'	24:BA:1211:U:O5'	2.14	0.44
24:BA:1263:U:C5	24:BA:1264:G:N1	2.85	0.44
24:BA:1292:U:H2'	24:BA:1293:C:H6	1.82	0.44
24:BA:1356:G:C4	24:BA:1357:U:C6	3.06	0.44
24:BA:1360:A:H61	24:BA:1371:G:H1'	1.79	0.44
24:BA:1378:A:C2	24:BA:1380:G:C1'	3.00	0.44
24:BA:1342:A:C2	24:BA:1397:U:C6	3.06	0.44
24:BA:140:A:H2	24:BA:1408:C:C2	2.35	0.44
24:BA:1419:A:OP2	24:BA:1419:A:C4'	2.66	0.44
24:BA:1427:A:H1'	24:BA:1428:C:C4	2.52	0.44
24:BA:1429:G:C8	24:BA:1430:C:C5	3.05	0.44
24:BA:120:U:O2	24:BA:149:A:C2	2.70	0.44
24:BA:1534:G:O2'	24:BA:1536:A:N6	2.50	0.44
24:BA:1609:A:N6	24:BA:1616:A:H2	2.04	0.44
24:BA:1691:C:H2'	24:BA:1692:U:H5'	1.97	0.44
24:BA:1702:G:C2'	24:BA:1703:G:C5'	2.79	0.44
24:BA:1786:A:C2'	24:BA:1787:A:H5'	2.46	0.44
24:BA:1814:G:N2	24:BA:1815:A:N6	2.65	0.44
24:BA:1819:A:N3	24:BA:1821:A:N1	2.64	0.44
24:BA:1926:U:N3	24:BA:1929:G:C2	2.85	0.44
24:BA:1940:U:H5'	24:BA:1941:C:OP1	2.17	0.44
24:BA:1661:G:C4	24:BA:2000:G:C2	3.06	0.44
24:BA:2000:G:C6	24:BA:2001:A:N6	2.84	0.44
24:BA:2023:G:C4	24:BA:2024:G:N7	2.85	0.44
24:BA:2070:G:C2	24:BA:2071:A:C4	3.06	0.44
24:BA:2208:U:H4'	27:BD:151:LYS:HZ2	1.77	0.44
24:BA:2239:G:N3	24:BA:2239:G:H2'	2.32	0.44
24:BA:2276:G:N2	24:BA:2277:G:C4	2.85	0.44
24:BA:2302:G:C2	24:BA:2303:G:N9	2.85	0.44
24:BA:2335:A:N7	24:BA:2337:G:C6	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2348:U:C2'	24:BA:2349:G:O5'	2.65	0.44
24:BA:2369:A:N6	24:BA:2382:G:H22	2.16	0.44
24:BA:2373:G:C8	24:BA:2373:G:OP2	2.68	0.44
24:BA:2373:G:C2	24:BA:2374:C:N3	2.85	0.44
24:BA:2447:G:O2'	24:BA:2448:A:P	2.74	0.44
24:BA:2471:C:H2'	24:BA:2472:G:H5'	1.99	0.44
24:BA:2472:G:H1'	24:BA:2478:A:N6	2.32	0.44
24:BA:246:C:H2'	24:BA:247:G:C8	2.52	0.44
24:BA:2484:G:C4	37:BP:124:LYS:HE2	2.52	0.44
24:BA:252:G:H2'	24:BA:253:C:H6	1.81	0.44
24:BA:2554:U:H5	24:BA:2556:C:C4	2.36	0.44
3:AB:76:A:P	24:BA:2573:C:N3	2.90	0.44
24:BA:2599:G:C2'	24:BA:2600:A:H5'	2.46	0.44
24:BA:2623:G:H22	51:B4:22:HIS:CE1	2.22	0.44
24:BA:2675:A:OP1	35:BN:32:TYR:HE2	2.00	0.44
24:BA:270(E):G:C2	24:BA:270(V):G:N2	2.85	0.44
24:BA:288:C:H6	24:BA:288:C:O5'	2.01	0.44
24:BA:298:G:H1	24:BA:338:G:H4'	1.82	0.44
24:BA:30:G:H2'	24:BA:31:C:H6	1.82	0.44
24:BA:310:A:C8	24:BA:312:G:C6	3.05	0.44
24:BA:322:A:OP1	29:BF:168:ARG:HG2	2.18	0.44
24:BA:270(C):C:P	24:BA:365:C:O2'	2.75	0.44
24:BA:495:G:C2'	24:BA:496:G:O5'	2.66	0.44
24:BA:528:A:H2'	24:BA:529:A:OP1	2.17	0.44
24:BA:545:G:C1'	24:BA:549:G:N2	2.66	0.44
24:BA:557:U:O5'	24:BA:557:U:H6	2.00	0.44
24:BA:590:A:C6	24:BA:591:C:C4	3.05	0.44
24:BA:64:A:C2	24:BA:65:C:C1'	3.00	0.44
24:BA:709:U:H6	24:BA:709:U:O5'	2.01	0.44
24:BA:734:A:C2	24:BA:735:A:C1'	3.01	0.44
24:BA:783:A:C6	24:BA:785:G:O4'	2.71	0.44
24:BA:820:A:OP2	24:BA:973:A:N6	2.50	0.44
24:BA:833:U:H2'	24:BA:834:C:O5'	2.18	0.44
24:BA:87:C:H1'	48:B1:46:ARG:HH22	1.81	0.44
24:BA:889:C:H1'	24:BA:892:G:C8	2.52	0.44
24:BA:931:G:N3	49:B2:24:LYS:CE	2.80	0.44
25:BB:111:U:O2	25:BB:112:G:C8	2.71	0.44
25:BB:6:C:C4	25:BB:115:G:N2	2.86	0.44
27:BD:55:GLY:H	27:BD:218:ARG:HA	1.83	0.44
27:BD:42:GLY:HA3	27:BD:60:ARG:HH22	1.79	0.44
28:BE:142:GLY:O	28:BE:143:ASN:CG	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:176:ILE:HA	28:BE:177:PRO:HD2	1.76	0.44
28:BE:97:LYS:HG3	28:BE:100:GLU:HG3	1.99	0.44
29:BF:101:LEU:C	29:BF:101:LEU:HD13	2.38	0.44
29:BF:169:ASN:OD1	29:BF:171:PRO:HG2	2.18	0.44
29:BF:194:MET:HE2	29:BF:195:ASP:N	2.33	0.44
29:BF:65:TRP:O	29:BF:67:GLN:N	2.51	0.44
29:BF:75:HIS:CE1	29:BF:80:ALA:CB	3.01	0.44
29:BF:80:ALA:O	29:BF:81:PRO:C	2.55	0.44
29:BF:95:ARG:HE	29:BF:96:ASP:H	1.66	0.44
30:BG:27:ASN:HB3	30:BG:29:TRP:CZ2	2.52	0.44
30:BG:2:PRO:HA	30:BG:5:VAL:HG21	2.00	0.44
30:BG:71:THR:CG2	30:BG:71:THR:O	2.58	0.44
30:BG:37:VAL:CB	30:BG:99:MET:SD	3.03	0.44
30:BG:9:ARG:HD2	30:BG:10:LYS:HZ3	1.78	0.44
31:BH:74:ASN:O	31:BH:76:VAL:N	2.50	0.44
31:BH:28:GLY:HA3	31:BH:79:VAL:C	2.38	0.44
32:BK:5:LEU:N	32:BK:5:LEU:CD2	2.77	0.44
33:BL:104:VAL:HG12	33:BL:124:ALA:CA	2.48	0.44
34:BM:102:ALA:O	34:BM:105:GLY:N	2.50	0.44
34:BM:82:LEU:HD23	34:BM:82:LEU:N	2.32	0.44
36:BO:113:LYS:CG	36:BO:114:ILE:N	2.80	0.44
37:BP:16:ARG:HD3	37:BP:16:ARG:N	2.28	0.44
38:BQ:17:ARG:HG3	38:BQ:18:LEU:CD2	2.47	0.44
38:BQ:71:GLN:O	38:BQ:72:ASP:CB	2.65	0.44
38:BQ:97:VAL:C	38:BQ:98:LEU:CG	2.85	0.44
40:BS:25:GLY:O	40:BS:100:TYR:OH	2.36	0.44
40:BS:103:ARG:C	40:BS:107:ASP:OD2	2.56	0.44
40:BS:108:ARG:H	40:BS:108:ARG:NH1	2.11	0.44
40:BS:28:VAL:HG13	40:BS:92:GLY:O	2.17	0.44
40:BS:2:ASN:C	40:BS:6:LEU:HD22	2.37	0.44
40:BS:71:GLY:N	40:BS:74:ARG:HH11	2.16	0.44
42:BU:3:ALA:C	42:BU:12:TYR:CE2	2.90	0.44
43:BV:12:ILE:H	43:BV:12:ILE:HD13	1.82	0.44
43:BV:24:ILE:O	43:BV:32:ALA:HB2	2.17	0.44
44:BW:21:PHE:HE2	44:BW:27:THR:HG1	1.60	0.44
45:BX:49:VAL:CB	45:BX:51:VAL:H	2.29	0.44
47:BZ:23:VAL:CG2	47:BZ:44:ARG:HH12	2.30	0.44
32:BK:115:ALA:HB1	32:BK:128:LEU:CD2	2.43	0.44
32:BK:87:LYS:HG2	32:BK:121:LYS:O	2.17	0.44
24:BA:2124:G:N3	26:BC:217:THR:HG23	2.31	0.44
24:BA:2168:G:N2	24:BA:2170:A:H2'	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:117:PRO:HD2	26:BC:147:PHE:CG	2.52	0.44
26:BC:11:LEU:HD12	26:BC:14:VAL:HB	1.98	0.44
26:BC:160:ARG:HD3	26:BC:160:ARG:C	2.38	0.44
15:AP:54:VAL:O	15:AP:58:GLU:HG3	2.16	0.44
48:B1:11:LEU:N	48:B1:11:LEU:CD1	2.81	0.44
24:BA:1579:A:H61	24:BA:1581:G:N2	2.01	0.44
24:BA:487:C:N4	24:BA:488:G:C5	2.86	0.44
24:BA:1414:G:N1	24:BA:1415:U:C4	2.86	0.44
1:AA:1074:G:C2'	1:AA:1075:C:H5'	2.47	0.44
1:AA:1133:G:C8	1:AA:1133:G:H3'	2.52	0.44
1:AA:1151:A:N7	1:AA:1152:A:C8	2.86	0.44
1:AA:1187:G:C2'	1:AA:1188:A:H8	2.31	0.44
1:AA:1242:C:N3	1:AA:1243:C:C5	2.85	0.44
1:AA:1315:U:H1'	1:AA:1360:A:N3	2.33	0.44
1:AA:1319:A:H5'	21:AV:5:LEU:HD21	1.99	0.44
1:AA:1343:G:C2	1:AA:1344:C:C2	3.06	0.44
1:AA:1480:G:C6	1:AA:1481:U:C2	3.05	0.44
1:AA:148:G:O2'	1:AA:149:A:H5'	2.17	0.44
1:AA:1519:A:C3'	1:AA:1520:G:H5'	2.47	0.44
1:AA:179:A:H2'	1:AA:179:A:N3	2.32	0.44
1:AA:189:U:H2'	19:AT:63:ARG:HH22	1.82	0.44
1:AA:194:C:O3'	22:AW:68:LYS:NZ	2.50	0.44
1:AA:254:G:C1'	19:AT:15:MET:HG2	2.48	0.44
1:AA:279:A:OP2	19:AT:95:TYR:OH	2.32	0.44
1:AA:285:G:C6	1:AA:286:G:C5	3.06	0.44
1:AA:285:G:C6	1:AA:286:G:N7	2.86	0.44
1:AA:414:A:C6	1:AA:431:A:C2	3.06	0.44
1:AA:428:G:O2'	1:AA:429:U:OP2	2.30	0.44
1:AA:520:A:H8	1:AA:520:A:H3'	1.82	0.44
1:AA:518:C:C6	1:AA:530:G:C4	3.05	0.44
1:AA:540:G:C5	1:AA:541:G:N7	2.86	0.44
1:AA:567:G:N2	1:AA:568:G:H1'	2.33	0.44
1:AA:568:G:C2	1:AA:574:A:H2	2.35	0.44
1:AA:582:U:OP2	1:AA:758:G:N2	2.51	0.44
1:AA:622:A:C4	1:AA:623:C:C6	3.04	0.44
1:AA:664:G:N3	1:AA:726:C:H4'	2.32	0.44
1:AA:779:C:N3	1:AA:780:A:N3	2.64	0.44
1:AA:857:C:H2'	1:AA:858:G:C5'	2.46	0.44
1:AA:975:A:O2'	1:AA:976:G:P	2.76	0.44
3:AC:38:A:N7	3:AC:39:U:C5	2.86	0.44
4:AE:153:ARG:O	4:AE:153:ARG:CZ	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:167:PRO:O	4:AE:174:VAL:HG21	2.17	0.44
4:AE:25:ASN:O	4:AE:26:PRO:C	2.56	0.44
5:AF:38:ARG:CB	5:AF:38:ARG:NH1	2.58	0.44
6:AG:129:ASN:HD21	6:AG:145:GLU:HG2	1.82	0.44
6:AG:155:LEU:O	6:AG:158:ILE:N	2.51	0.44
6:AG:176:LEU:HD23	6:AG:176:LEU:H	1.81	0.44
6:AG:30:LYS:HG2	6:AG:35:ARG:HG3	2.00	0.44
6:AG:67:ILE:CD1	6:AG:68:TYR:CD1	3.00	0.44
6:AG:65:ARG:HG3	6:AG:72:GLU:CD	2.38	0.44
6:AG:83:SER:N	6:AG:89:THR:CG2	2.80	0.44
7:AH:112:LEU:HA	7:AH:112:LEU:HD22	1.79	0.44
7:AH:52:PRO:O	7:AH:55:VAL:N	2.50	0.44
7:AH:7:GLU:OE1	7:AH:37:ARG:NH2	2.50	0.44
7:AH:84:PHE:CG	7:AH:134:ALA:CA	3.00	0.44
10:AK:101:PRO:HG2	10:AK:102:ARG:N	2.32	0.44
10:AK:84:ARG:C	10:AK:135:CYS:HG	2.19	0.44
12:AM:40:LEU:HD23	12:AM:40:LEU:HA	1.87	0.44
12:AM:40:LEU:O	12:AM:42:THR:N	2.51	0.44
14:AO:113:ARG:NH2	14:AO:116:SER:O	2.42	0.44
1:AA:37:U:OP1	14:AO:123:LYS:HE3	2.18	0.44
14:AO:82:VAL:O	14:AO:83:VAL:CB	2.65	0.44
18:AS:42:ARG:C	18:AS:43:LYS:HD2	2.38	0.44
18:AS:8:ARG:NH1	18:AS:11:SER:O	2.51	0.44
1:AA:280:C:O2	19:AT:39:SER:HB3	2.18	0.44
21:AV:18:LYS:HE2	21:AV:22:LEU:HD12	1.99	0.44
21:AV:32:LYS:HB3	21:AV:50:ALA:HB3	1.99	0.44
22:AW:10:LEU:HD12	22:AW:11:SER:N	2.32	0.44
50:B3:41:PRO:CA	50:B3:58:ARG:HD2	2.47	0.44
50:B3:7:PRO:HG2	50:B3:60:GLN:HB2	1.98	0.44
52:B5:17:LYS:CE	52:B5:48:VAL:HG11	2.47	0.44
53:B6:32:LYS:O	53:B6:33:ARG:C	2.55	0.44
54:B7:5:LYS:HG2	54:B7:7:HIS:CA	2.48	0.44
24:BA:1027:A:N1	24:BA:1126:A:C4	2.85	0.44
24:BA:117:G:C2	24:BA:119:A:N6	2.85	0.44
24:BA:1213:A:C4	24:BA:1214:A:C8	3.06	0.44
24:BA:1264:G:N7	24:BA:1265:A:C5	2.85	0.44
24:BA:1287:A:H8	38:BQ:104:ARG:HH11	1.65	0.44
24:BA:1299:G:OP1	24:BA:1300:U:H5'	2.18	0.44
24:BA:1303:G:H22	24:BA:1626:G:HO2'	1.60	0.44
24:BA:1304:C:H2'	24:BA:1305:C:C5'	2.47	0.44
24:BA:1458:C:H4'	24:BA:1459:G:C4	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1475:G:H22	24:BA:1477:A:N6	2.08	0.44
24:BA:1593:G:H2'	24:BA:1594:G:O4'	2.18	0.44
24:BA:1604:C:C2'	24:BA:1604:C:O2	2.66	0.44
24:BA:1672:C:C3'	24:BA:1673:U:C5'	2.92	0.44
24:BA:1709:U:C4	24:BA:1710:C:N4	2.86	0.44
24:BA:1790:C:H1'	27:BD:213:ARG:NH2	2.33	0.44
24:BA:1795:C:H6	24:BA:1795:C:O5'	2.01	0.44
24:BA:1807:G:N2	24:BA:1809:A:OP2	2.50	0.44
24:BA:1977:A:C2	24:BA:1978:A:C1'	3.01	0.44
24:BA:1982:C:N4	24:BA:1983:C:H41	2.15	0.44
24:BA:2046:G:C6	24:BA:2623:G:C6	3.06	0.44
24:BA:2084:C:C2	24:BA:2085:C:C5	3.05	0.44
24:BA:2091:U:O4	24:BA:2092:U:C5	2.70	0.44
24:BA:2091:U:C5'	24:BA:2093:G:OP1	2.65	0.44
24:BA:2227:A:C4'	27:BD:262:ARG:HD2	2.48	0.44
24:BA:2286:A:N7	52:B5:31:PRO:N	2.66	0.44
24:BA:2331:G:H3'	24:BA:2332:U:C6	2.51	0.44
24:BA:2352:A:N1	47:BZ:34:GLY:CA	2.80	0.44
24:BA:2424:C:C2'	24:BA:2424:C:O2	2.65	0.44
24:BA:2450:A:H2	24:BA:2451:A:H1'	1.82	0.44
24:BA:2514:U:H6	24:BA:2514:U:O5'	1.99	0.44
24:BA:2547:U:C6	24:BA:2547:U:H5''	2.52	0.44
24:BA:2676:C:H2'	24:BA:2677:G:H8	1.83	0.44
24:BA:266:G:C5	24:BA:267:C:C6	3.06	0.44
24:BA:2720:U:O2	24:BA:2720:U:C2'	2.53	0.44
24:BA:2726:U:H4'	24:BA:2727:G:OP1	2.16	0.44
24:BA:2770:G:C8	24:BA:2770:G:O5'	2.67	0.44
24:BA:2816:C:C2	24:BA:2831:G:C2	3.06	0.44
24:BA:344:G:C2	24:BA:345:A:C6	3.06	0.44
24:BA:424:G:N3	24:BA:425:G:C8	2.85	0.44
24:BA:568:U:C2'	24:BA:570:G:N7	2.80	0.44
24:BA:629:G:OP1	54:B7:17:THR:HG22	2.17	0.44
24:BA:67:U:C5'	24:BA:67:U:H6	2.30	0.44
24:BA:689:A:H2'	24:BA:690:G:H5''	1.99	0.44
24:BA:72:U:O4	24:BA:112:U:C1'	2.59	0.44
24:BA:830:G:O6	24:BA:2446:G:H1'	2.17	0.44
24:BA:861:A:H2'	24:BA:862:G:C5'	2.41	0.44
24:BA:943:U:H2'	24:BA:944:G:OP1	2.18	0.44
24:BA:971:C:N4	24:BA:972:G:N2	2.66	0.44
24:BA:973:A:C8	24:BA:973:A:H3'	2.53	0.44
27:BD:132:PRO:HB2	27:BD:134:ARG:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:182:LEU:H	27:BD:270:ILE:HG13	1.83	0.44
27:BD:23:GLU:C	27:BD:23:GLU:OE1	2.55	0.44
27:BD:246:PRO:HB2	27:BD:250:TRP:CD1	2.52	0.44
27:BD:55:GLY:N	27:BD:218:ARG:HH11	2.16	0.44
27:BD:58:HIS:O	27:BD:59:LYS:HE2	2.16	0.44
24:BA:1568:G:P	27:BD:61:LEU:CG	3.06	0.44
28:BE:99:GLY:N	28:BE:172:VAL:CG2	2.80	0.44
24:BA:2833:G:N2	28:BE:56:PRO:HB3	2.33	0.44
29:BF:119:ARG:C	29:BF:119:ARG:HH21	2.21	0.44
30:BG:2:PRO:C	30:BG:5:VAL:HB	2.34	0.44
30:BG:68:PRO:CG	30:BG:72:ARG:NH1	2.77	0.44
31:BH:42:ARG:HB2	31:BH:53:GLU:HG3	1.98	0.44
31:BH:54:ARG:NH1	31:BH:57:ASP:CB	2.81	0.44
33:BL:102:GLU:O	33:BL:106:GLU:CG	2.62	0.44
33:BL:11:GLN:NE2	33:BL:73:PRO:CG	2.76	0.44
33:BL:105:LEU:CD2	33:BL:124:ALA:CB	2.93	0.44
33:BL:18:THR:N	33:BL:38:VAL:HG22	2.32	0.44
35:BN:22:ILE:HB	35:BN:23:ARG:CD	2.48	0.44
35:BN:63:VAL:CG2	35:BN:82:ASN:N	2.79	0.44
35:BN:77:ILE:O	40:BS:75:ILE:CD1	2.66	0.44
35:BN:8:LEU:HD21	35:BN:81:ASP:HB3	2.00	0.44
35:BN:89:ASN:O	35:BN:90:GLN:CB	2.64	0.44
36:BO:28:GLY:O	36:BO:29:LYS:CG	2.62	0.44
36:BO:40:SER:O	36:BO:42:SER:N	2.50	0.44
36:BO:91:PHE:HE2	36:BO:96:THR:HG22	1.80	0.44
37:BP:134:ARG:C	37:BP:134:ARG:NH1	2.67	0.44
37:BP:51:ARG:HH22	37:BP:63:LYS:HZ1	1.66	0.44
37:BP:68:ILE:HG21	37:BP:95:ALA:HB2	2.00	0.44
24:BA:2882:A:C4'	38:BQ:98:LEU:HD21	2.48	0.44
39:BR:57:LYS:CD	39:BR:65:VAL:HA	2.46	0.44
39:BR:75:GLU:O	39:BR:78:LEU:CD1	2.65	0.44
40:BS:102:ILE:O	40:BS:103:ARG:C	2.56	0.44
41:BT:68:ALA:HA	41:BT:71:GLN:OE1	2.17	0.44
41:BT:93:LYS:HZ3	41:BT:93:LYS:CA	2.28	0.44
42:BU:16:PRO:CD	42:BU:100:ARG:NH1	2.78	0.44
42:BU:33:VAL:HG12	42:BU:34:GLU:H	1.82	0.44
43:BV:47:VAL:O	43:BV:51:LEU:CD1	2.57	0.44
24:BA:1615:C:O2	43:BV:87:PRO:HG3	2.17	0.44
45:BX:76:CYS:N	45:BX:100:ALA:HB3	2.33	0.44
45:BX:24:VAL:HG23	45:BX:38:ILE:HD12	2.00	0.44
45:BX:72:VAL:O	45:BX:77:PRO:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BZ:52:GLY:O	47:BZ:60:PHE:CD2	2.71	0.44
47:BZ:74:ARG:HH11	47:BZ:75:LEU:HD11	1.82	0.44
26:BC:59:ARG:O	26:BC:199:HIS:CD2	2.71	0.44
26:BC:10:LEU:CD1	26:BC:32:LEU:O	2.64	0.44
26:BC:74:VAL:HG13	26:BC:112:ALA:O	2.17	0.44
24:BA:276:A:OP2	24:BA:276:A:O4'	2.35	0.44
1:AA:1003:G:OP2	1:AA:1003:G:C8	2.70	0.44
1:AA:1085:U:O4'	1:AA:1094:G:C2	2.70	0.44
1:AA:1068:G:C8	1:AA:1094:G:C8	3.04	0.44
1:AA:1065:U:H5	1:AA:1190:G:N3	2.14	0.44
1:AA:1241:G:C8	1:AA:1241:G:OP2	2.69	0.44
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.53	0.44
1:AA:1347:G:O2'	1:AA:1348:U:P	2.75	0.44
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.17	0.44
1:AA:1396:A:H2'	1:AA:1397:C:OP2	2.17	0.44
1:AA:1424:C:C2'	1:AA:1425:U:O5'	2.66	0.44
1:AA:1454:G:C4	1:AA:1455:G:C8	3.05	0.44
1:AA:1480:G:O2'	1:AA:1481:U:C5'	2.61	0.44
1:AA:1504:G:O4'	1:AA:1505:G:C6	2.70	0.44
1:AA:1520:G:C2'	1:AA:1521:G:C8	2.95	0.44
1:AA:151:A:C6	1:AA:152:A:C2	3.05	0.44
1:AA:169:C:C6	1:AA:170:U:H5	2.35	0.44
1:AA:185:A:C4	1:AA:186:C:C5	3.06	0.44
1:AA:22:G:OP1	1:AA:561:U:O2	2.35	0.44
1:AA:24:U:C4	1:AA:25:C:C5	3.05	0.44
1:AA:270:A:C5	1:AA:271:C:C5	3.06	0.44
1:AA:292:G:C2	1:AA:309:G:N3	2.86	0.44
1:AA:311:C:O2'	1:AA:312:C:H5'	2.17	0.44
1:AA:314:C:H2'	1:AA:315:A:C8	2.53	0.44
1:AA:409:G:N2	1:AA:410:G:O4'	2.50	0.44
1:AA:568:G:N3	1:AA:574:A:H2	2.16	0.44
1:AA:625:G:C4	1:AA:626:U:C5	3.06	0.44
1:AA:723:U:C6	1:AA:723:U:O5'	2.71	0.44
1:AA:960:U:C6	1:AA:960:U:H5'	2.53	0.44
3:AD:4:C:C4	3:AD:70:G:N1	2.85	0.44
4:AE:101:MET:HB3	4:AE:105:PHE:CD1	2.53	0.44
4:AE:145:LEU:O	4:AE:149:LEU:HB3	2.14	0.44
4:AE:157:ARG:HG2	4:AE:158:LEU:HD23	1.98	0.44
5:AF:164:ARG:HG2	5:AF:165:THR:N	2.32	0.44
5:AF:190:ARG:O	5:AF:191:THR:O	2.36	0.44
6:AG:92:VAL:O	6:AG:96:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:108:ALA:HA	7:AH:111:GLU:CD	2.38	0.44
9:AJ:11:GLN:NE2	9:AJ:12:LEU:HD12	2.33	0.44
9:AJ:129:GLU:HB3	9:AJ:131:LYS:HG2	1.99	0.44
9:AJ:6:ARG:H	9:AJ:6:ARG:CZ	2.29	0.44
10:AK:48:TYR:CA	10:AK:61:VAL:HG22	2.47	0.44
10:AK:97:VAL:HG22	10:AK:98:LYS:HZ2	1.83	0.44
11:AL:105:ASP:OD1	11:AL:107:ARG:NH2	2.50	0.44
11:AL:36:TYR:HD2	11:AL:37:PHE:HE2	1.66	0.44
13:AN:48:ILE:HD11	13:AN:64:ALA:HA	1.98	0.44
13:AN:66:LEU:CB	13:AN:70:LYS:NZ	2.79	0.44
14:AO:102:ARG:HH11	14:AO:110:VAL:CG1	2.31	0.44
14:AO:36:VAL:O	14:AO:59:ARG:O	2.36	0.44
15:AP:55:ARG:HH21	15:AP:56:LEU:CD1	2.30	0.44
15:AP:91:ARG:HB3	15:AP:98:VAL:HG13	1.98	0.44
16:AQ:13:THR:O	16:AQ:13:THR:HG22	2.17	0.44
16:AQ:26:ARG:HE	16:AQ:43:CYS:HA	1.82	0.44
17:AR:39:LEU:HD22	17:AR:56:LEU:CD2	2.42	0.44
1:AA:377:G:OP1	18:AS:5:ARG:NH1	2.51	0.44
19:AT:22:LEU:CD1	19:AT:41:LYS:HA	2.48	0.44
19:AT:5:VAL:CB	19:AT:59:ILE:O	2.66	0.44
8:AI:96:PRO:N	20:AU:32:ARG:HG3	2.32	0.44
20:AU:62:GLU:HB3	20:AU:66:LEU:HD23	2.00	0.44
21:AV:30:LEU:C	21:AV:30:LEU:HD23	2.38	0.44
21:AV:30:LEU:HA	21:AV:48:THR:C	2.38	0.44
48:B1:19:LEU:C	48:B1:19:LEU:HD22	2.37	0.44
49:B2:55:ARG:CG	49:B2:55:ARG:NH2	2.81	0.44
50:B3:57:GLU:N	50:B3:61:ARG:CG	2.81	0.44
50:B3:66:SER:O	50:B3:69:LYS:CB	2.56	0.44
24:BA:126:A:OP1	53:B6:17:GLY:HA3	2.17	0.44
24:BA:458:G:H2'	53:B6:40:TRP:CD1	2.53	0.44
54:B7:16:ILE:HA	54:B7:21:LYS:O	2.18	0.44
54:B7:16:ILE:HG23	54:B7:22:VAL:HG22	1.96	0.44
55:B8:1:MET:H2	55:B8:33:LYS:CB	2.31	0.44
24:BA:1003:G:O2'	24:BA:1010:A:N1	2.43	0.44
24:BA:1023:U:O2	24:BA:1024:G:H4'	2.17	0.44
24:BA:105:C:H2'	24:BA:106:C:H6	1.83	0.44
24:BA:1128:A:OP2	24:BA:1128:A:O4'	2.35	0.44
24:BA:1183:G:O2'	24:BA:1184:G:P	2.76	0.44
24:BA:1190:G:O2'	24:BA:1191:G:H5'	2.17	0.44
24:BA:1212:G:C8	24:BA:1212:G:C3'	2.99	0.44
24:BA:1372:U:C4	24:BA:1373:A:N7	2.85	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1388:G:N1	24:BA:1400:G:C2	2.85	0.44
24:BA:1454:U:C5'	24:BA:1455:G:OP2	2.56	0.44
24:BA:1522:G:C3'	24:BA:1522:G:C8	3.01	0.44
24:BA:1630:G:C8	24:BA:1630(A):C:H5	2.35	0.44
24:BA:1691:C:H2'	24:BA:1692:U:C5'	2.48	0.44
24:BA:1707:G:H2'	24:BA:1708:C:O4'	2.17	0.44
24:BA:1778:U:H3'	24:BA:1779:U:C5	2.52	0.44
24:BA:1933:G:O6	24:BA:1968:G:C2	2.68	0.44
24:BA:1995:U:C6	24:BA:1995:U:C3'	3.01	0.44
24:BA:1268:A:OP1	24:BA:2006:C:OP1	2.36	0.44
24:BA:2007:C:H2'	24:BA:2008:C:O5'	2.18	0.44
24:BA:2040:C:N4	24:BA:2041:U:O4	2.50	0.44
24:BA:2046:G:C2	24:BA:2047:U:C4	3.06	0.44
24:BA:219:G:H2'	24:BA:220:G:H5'	1.99	0.44
24:BA:2268:A:C3'	24:BA:2269:A:H5''	2.48	0.44
24:BA:2296:U:C4	39:BR:5:THR:HG23	2.53	0.44
24:BA:2298:A:H2'	24:BA:2299:G:H8	1.82	0.44
24:BA:233:A:N7	24:BA:234:C:C5	2.86	0.44
24:BA:2373:G:C4	24:BA:2374:C:C4	3.06	0.44
24:BA:2373:G:H2'	24:BA:2374:C:H5	1.82	0.44
24:BA:1864:U:OP1	24:BA:2410:G:O2'	2.36	0.44
24:BA:2472:G:H22	24:BA:2477:C:P	2.38	0.44
24:BA:2496:C:C6	24:BA:2497:A:C2	3.05	0.44
24:BA:2532:G:C5	24:BA:2533:A:C5	3.06	0.44
24:BA:2533:A:C2'	24:BA:2534:A:H8	2.28	0.44
24:BA:2547:U:H6	24:BA:2547:U:H5''	1.81	0.44
3:AB:75:C:N4	24:BA:2554:U:O2	2.50	0.44
24:BA:2546:U:O4'	24:BA:2565:A:C2	2.68	0.44
24:BA:2573:C:OP1	24:BA:2574:G:OP1	2.35	0.44
3:AC:74:C:H5''	24:BA:2602:A:H2'	2.00	0.44
24:BA:747:U:O2	24:BA:2613:U:C4	2.71	0.44
24:BA:10:G:N1	24:BA:2629:A:N3	2.66	0.44
24:BA:266:G:C2	24:BA:267:C:H1'	2.52	0.44
24:BA:2681:C:H5	24:BA:2727:G:N2	2.15	0.44
24:BA:2706:G:N1	24:BA:2707:G:C5	2.86	0.44
24:BA:270(M):U:O3'	24:BA:270(N):G:C4'	2.66	0.44
24:BA:270(V):G:C4	24:BA:270(W):G:N7	2.85	0.44
24:BA:2737:G:C6	24:BA:2738:A:N7	2.86	0.44
24:BA:2749:A:N7	24:BA:2750:A:N7	2.66	0.44
24:BA:2776:A:C5	24:BA:2781:A:N7	2.85	0.44
24:BA:2776:A:N7	24:BA:2781:A:N7	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2827:C:H2'	24:BA:2828:C:H5'	2.00	0.44
24:BA:2879:C:C5'	24:BA:2880:C:OP1	2.64	0.44
24:BA:449:A:OP2	29:BF:85:GLY:CA	2.66	0.44
24:BA:566:U:O2'	24:BA:808:G:OP1	2.35	0.44
24:BA:70:G:C3'	24:BA:71:A:H5'	2.48	0.44
24:BA:71:A:C2'	24:BA:72:U:OP2	2.65	0.44
24:BA:771:G:C2	24:BA:772:C:C5	3.05	0.44
24:BA:687:C:C1'	24:BA:788:A:O4'	2.66	0.44
24:BA:824:A:C5	24:BA:825:C:N4	2.86	0.44
24:BA:885:C:N4	24:BA:892:G:C5	2.86	0.44
25:BB:71:C:O2	25:BB:71:C:C2'	2.63	0.44
25:BB:87:G:N1	25:BB:90:C:N4	2.66	0.44
24:BA:2208:U:C4'	27:BD:151:LYS:NZ	2.76	0.44
27:BD:161:THR:N	27:BD:196:VAL:HG21	2.32	0.44
24:BA:2596:U:C3'	27:BD:242:ARG:CZ	2.96	0.44
27:BD:85:ASP:C	27:BD:87:ASN:N	2.66	0.44
28:BE:116:VAL:O	28:BE:120:TRP:HD1	1.95	0.44
28:BE:13:ARG:CZ	28:BE:20:ALA:C	2.86	0.44
29:BF:96:ASP:OD1	29:BF:97:TYR:N	2.51	0.44
30:BG:104:GLU:CG	30:BG:105:LYS:N	2.68	0.44
30:BG:138:GLN:HG2	30:BG:139:LEU:N	2.33	0.44
31:BH:135:GLY:HA3	31:BH:141:VAL:CG2	2.47	0.44
31:BH:149:ARG:NH2	31:BH:164:TYR:CD1	2.85	0.44
31:BH:42:ARG:HB2	31:BH:53:GLU:CG	2.47	0.44
34:BM:21:LYS:HB3	34:BM:25:ARG:NH2	2.33	0.44
35:BN:25:LEU:HB2	35:BN:39:ILE:HA	2.00	0.44
36:BO:122:PRO:CG	36:BO:138:LEU:HA	2.48	0.44
37:BP:134:ARG:HH21	37:BP:137:TYR:N	2.14	0.44
37:BP:42:ILE:O	37:BP:47:ILE:HD11	2.18	0.44
38:BQ:6:SER:CB	38:BQ:9:LYS:HE2	2.46	0.44
39:BR:10:ARG:O	39:BR:14:VAL:HG23	2.17	0.44
39:BR:6:ALA:O	39:BR:7:TYR:C	2.55	0.44
40:BS:91:ARG:C	40:BS:93:ARG:HH21	2.12	0.44
41:BT:106:PHE:O	41:BT:110:VAL:HG23	2.17	0.44
41:BT:110:VAL:HG12	41:BT:114:LYS:HZ1	1.83	0.44
41:BT:59:ARG:C	41:BT:62:ILE:HB	2.36	0.44
42:BU:6:LYS:HG2	42:BU:12:TYR:CA	2.47	0.44
42:BU:62:LEU:HB3	42:BU:97:LYS:O	2.17	0.44
43:BV:33:ARG:HH11	43:BV:36:LEU:CB	2.26	0.44
43:BV:70:TYR:CD1	43:BV:71:VAL:O	2.71	0.44
44:BW:12:VAL:HA	44:BW:29:TRP:NE1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:14:LEU:N	45:BX:14:LEU:CD1	2.80	0.44
45:BX:2:ARG:C	45:BX:4:LYS:N	2.69	0.44
45:BX:46:LYS:HZ3	45:BX:47:LYS:HG3	1.83	0.44
46:BY:169:GLU:O	46:BY:170:THR:CB	2.66	0.44
46:BY:11:GLU:N	46:BY:36:LYS:HZ2	2.16	0.44
46:BY:63:ASP:OD1	46:BY:65:GLN:N	2.50	0.44
46:BY:75:ASN:O	46:BY:84:GLU:N	2.45	0.44
32:BK:70:LYS:HE2	32:BK:70:LYS:HB2	1.47	0.44
3:AD:64:A:C2	3:AD:65:G:C8	3.05	0.44
24:BA:2174:C:O2'	26:BC:218:MET:HG3	2.17	0.44
24:BA:2177:C:N3	24:BA:2178:C:C5	2.86	0.44
26:BC:22:ILE:HD12	26:BC:190:ARG:CZ	2.48	0.44
46:BY:112:ARG:HH11	46:BY:112:ARG:HG3	1.83	0.44
1:AA:1171:G:C2'	1:AA:1172:C:H6	2.31	0.44
1:AA:489:C:O2'	1:AA:490:G:C5'	2.65	0.44
32:BK:47:LEU:HG	32:BK:51:ILE:CD1	2.48	0.44
2:A1:18:U:O4	4:AE:76:GLN:NE2	2.50	0.44
1:AA:108:G:C5'	1:AA:109:A:H5''	2.36	0.44
1:AA:124:G:C6	1:AA:125:U:N3	2.86	0.44
1:AA:1315:U:O2	1:AA:1360:A:H2	2.00	0.44
1:AA:1224:G:N2	1:AA:1362(A):C:C4	2.81	0.44
1:AA:1376:U:OP1	9:AJ:98:SER:CB	2.66	0.44
1:AA:1390:U:N3	1:AA:1391:U:C4	2.86	0.44
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.45	0.44
1:AA:1423:G:C2	1:AA:1424:C:C2	3.05	0.44
1:AA:1434:A:N7	1:AA:1435:G:C5	2.85	0.44
1:AA:1434:A:N7	1:AA:1435:G:N7	2.66	0.44
1:AA:1483:A:H2'	1:AA:1484:C:O5'	2.18	0.44
1:AA:1403:C:C1'	1:AA:1500:A:H61	2.14	0.44
1:AA:20:U:O4'	1:AA:572:A:C6	2.70	0.44
1:AA:27:G:C8	1:AA:27:G:OP2	2.70	0.44
1:AA:307:C:C2'	1:AA:307:C:O2	2.65	0.44
1:AA:380:G:C6	1:AA:384:G:O6	2.71	0.44
1:AA:38:G:N3	1:AA:397:A:C6	2.86	0.44
1:AA:544:G:C6	1:AA:545:C:N4	2.86	0.44
1:AA:581:G:O6	1:AA:758:G:C8	2.71	0.44
1:AA:621:A:N6	1:AA:622:A:N6	2.65	0.44
1:AA:593:G:N1	1:AA:647:C:C2	2.86	0.44
1:AA:655:A:C6	1:AA:656:C:C4	3.06	0.44
1:AA:674:G:H4'	20:AU:81:PHE:HZ	1.82	0.44
1:AA:679:C:H6	1:AA:679:C:O5'	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:715:A:C4'	1:AA:777:A:N6	2.81	0.44
1:AA:824:C:H4'	10:AK:1:MET:HA	2.00	0.44
1:AA:951:G:C2	1:AA:952:U:C2	3.06	0.44
1:AA:95:G:H2'	1:AA:96:G:H5'	1.98	0.44
3:AC:13:C:H2'	3:AC:14:A:O5'	2.18	0.44
3:AC:4:C:O2'	3:AC:5:G:C5'	2.65	0.44
4:AE:165:VAL:HG23	4:AE:166:ASP:N	2.21	0.44
4:AE:207:ALA:O	4:AE:210:SER:N	2.50	0.44
4:AE:23:ARG:O	4:AE:24:TRP:CD1	2.70	0.44
4:AE:54:THR:CG2	4:AE:199:TYR:HB3	2.48	0.44
5:AF:138:VAL:O	5:AF:170:GLN:NE2	2.51	0.44
7:AH:103:GLY:C	7:AH:107:ARG:NH1	2.71	0.44
7:AH:111:GLU:H	7:AH:111:GLU:HG3	1.56	0.44
7:AH:39:GLY:O	7:AH:68:GLU:OE2	2.36	0.44
9:AJ:113:GLU:HB3	9:AJ:118:VAL:HG11	1.98	0.44
9:AJ:74:GLU:HA	9:AJ:145:ALA:HB3	1.98	0.44
10:AK:112:LEU:CD1	10:AK:133:LEU:HD23	2.48	0.44
10:AK:32:LYS:NZ	10:AK:32:LYS:H	2.13	0.44
11:AL:11:LYS:HA	11:AL:108:VAL:HG11	1.98	0.44
11:AL:42:ARG:O	11:AL:43:ALA:C	2.53	0.44
13:AN:65:ALA:O	13:AN:68:ALA:HB3	2.18	0.44
13:AN:95:ILE:O	13:AN:99:GLN:HG3	2.17	0.44
15:AP:14:ARG:CB	15:AP:44:ARG:HD2	2.46	0.44
5:AF:29:TYR:CB	16:AQ:36:PHE:HE1	2.30	0.44
16:AQ:26:ARG:HB2	16:AQ:39:LEU:HD22	1.99	0.44
17:AR:42:HIS:ND1	17:AR:43:LEU:N	2.66	0.44
18:AS:19:ILE:HG22	18:AS:36:ILE:O	2.17	0.44
19:AT:10:VAL:CG1	19:AT:54:GLY:N	2.74	0.44
19:AT:63:ARG:O	19:AT:65:ILE:HG22	2.17	0.44
21:AV:19:VAL:HG11	21:AV:44:MET:HE3	2.00	0.44
21:AV:30:LEU:CD1	21:AV:50:ALA:HB2	2.47	0.44
21:AV:30:LEU:CD2	21:AV:50:ALA:HB2	2.47	0.44
1:AA:194:C:O3'	22:AW:65:LYS:NZ	2.50	0.44
48:B1:42:ASN:O	48:B1:45:ILE:CG1	2.63	0.44
49:B2:10:LYS:NZ	49:B2:12:PRO:CD	2.79	0.44
50:B3:5:ILE:HG13	50:B3:10:VAL:H	1.82	0.44
51:B4:10:LYS:HB3	51:B4:10:LYS:HE2	1.81	0.44
43:BV:19:LEU:CD2	51:B4:25:LEU:HD22	2.47	0.44
54:B7:29:LYS:C	54:B7:34:TRP:CZ2	2.91	0.44
54:B7:58:ILE:HD12	54:B7:59:LYS:N	2.33	0.44
24:BA:1000:A:C6	24:BA:1001:A:C2	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:104:U:C2'	24:BA:105:C:O4'	2.47	0.44
24:BA:1102:C:O2'	24:BA:1103:A:H8	2.01	0.44
24:BA:999:U:O2	24:BA:1157:G:N2	2.50	0.44
24:BA:1171:G:C8	24:BA:1173:G:H4'	2.52	0.44
24:BA:1176:G:H3'	24:BA:1177:A:O4'	2.18	0.44
24:BA:118:A:O2'	24:BA:178:G:C5'	2.63	0.44
24:BA:1255:U:H2'	24:BA:1255:U:O2	2.17	0.44
24:BA:1323:U:O4	24:BA:1324:G:O6	2.36	0.44
24:BA:1429:G:H2'	24:BA:1430:C:C6	2.52	0.44
24:BA:1440:G:C5	24:BA:1441:G:N7	2.86	0.44
24:BA:1442:G:N1	24:BA:1443:G:C6	2.86	0.44
24:BA:1348:G:C6	24:BA:1599:C:N3	2.86	0.44
24:BA:1630:G:H2'	24:BA:1630(A):C:C6	2.48	0.44
24:BA:1660:C:O2'	24:BA:1661:G:C5'	2.65	0.44
24:BA:1685:C:O2'	24:BA:1686:C:C5'	2.60	0.44
24:BA:118:A:H1'	24:BA:178:G:C4'	2.48	0.44
24:BA:1910:G:C6	24:BA:1911:U:C4	3.06	0.44
24:BA:1949:G:N7	24:BA:1950:G:C8	2.86	0.44
24:BA:1980:G:C5	24:BA:1982:C:C4	3.05	0.44
24:BA:2026:C:C2'	24:BA:2027:G:C5'	2.96	0.44
24:BA:2267:A:N1	24:BA:2272:U:O4	2.51	0.44
24:BA:2295:C:OP1	39:BR:9:ARG:HD2	2.18	0.44
24:BA:2303:G:N1	24:BA:2304:G:C5	2.86	0.44
24:BA:2309:A:C6	24:BA:2310:A:C4	3.06	0.44
24:BA:2376:A:C2	24:BA:2377:A:N3	2.85	0.44
24:BA:2450:A:C2	24:BA:2451:A:N3	2.85	0.44
24:BA:2466:C:O2'	24:BA:2467:C:H5'	2.17	0.44
24:BA:2513:G:H2'	24:BA:2514:U:C5	2.50	0.44
24:BA:2519:U:O2	24:BA:2519:U:C2'	2.63	0.44
24:BA:2607:G:N3	24:BA:2608:G:O4'	2.51	0.44
24:BA:2610:C:O2'	24:BA:2611:U:OP2	2.24	0.44
24:BA:261:G:C2'	24:BA:262:A:H5'	2.47	0.44
24:BA:2734:A:C2	28:BE:203:LYS:HD2	2.52	0.44
24:BA:2774:C:H2'	24:BA:2774:C:O2	2.17	0.44
24:BA:2808:U:O2'	24:BA:2810:A:O5'	2.28	0.44
24:BA:298:G:H1	24:BA:338:G:C2'	2.31	0.44
24:BA:356:G:C3'	24:BA:357:A:C8	3.00	0.44
24:BA:224:G:N7	24:BA:420:C:H5'	2.33	0.44
24:BA:572:A:C8	24:BA:573:G:C5	3.06	0.44
24:BA:619:G:O6	29:BF:103:LYS:NZ	2.23	0.44
24:BA:693:C:C2'	24:BA:694:U:O5'	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:731:C:H2'	24:BA:732:C:H5'	2.00	0.44
25:BB:73:A:C5	25:BB:104:A:C4	3.06	0.44
25:BB:106:G:C4	25:BB:107:U:C5	3.06	0.44
25:BB:12:C:N4	47:BZ:74:ARG:O	2.51	0.44
27:BD:137:PRO:HG2	27:BD:140:THR:HG21	1.99	0.44
24:BA:730:C:OP2	27:BD:211:ARG:NH2	2.50	0.44
27:BD:234:GLY:CA	27:BD:241:PRO:HG2	2.48	0.44
28:BE:111:ARG:HB2	28:BE:161:GLY:HA3	1.98	0.44
28:BE:149:ARG:HH11	28:BE:151:TYR:C	2.21	0.44
28:BE:19:ARG:HB3	35:BN:73:ASP:OD2	2.18	0.44
28:BE:37:ARG:N	28:BE:40:GLU:HB2	2.33	0.44
28:BE:5:LEU:HD23	28:BE:7:VAL:CA	2.48	0.44
28:BE:9:VAL:HG13	40:BS:3:ARG:HG2	1.99	0.44
29:BF:119:ARG:NH2	29:BF:119:ARG:CB	2.60	0.44
29:BF:176:LEU:CD1	29:BF:178:PRO:HD2	2.47	0.44
30:BG:33:ARG:HH22	30:BG:34:LEU:CA	2.31	0.44
30:BG:56:ALA:HA	30:BG:59:GLU:CG	2.48	0.44
30:BG:59:GLU:O	30:BG:63:ILE:HB	2.18	0.44
31:BH:95:ARG:O	31:BH:105:LEU:HA	2.18	0.44
31:BH:124:GLU:O	31:BH:131:VAL:HG22	2.17	0.44
31:BH:124:GLU:HB3	31:BH:132:ARG:NH1	2.32	0.44
31:BH:153:LYS:O	31:BH:161:GLY:HA3	2.18	0.44
32:BK:6:LEU:HD13	32:BK:7:GLU:OE2	2.16	0.44
32:BK:9:LEU:O	32:BK:9:LEU:HD23	2.18	0.44
35:BN:70:LYS:HE2	35:BN:103:ALA:HB3	1.99	0.44
35:BN:31:LYS:CB	35:BN:32:TYR:CE2	3.01	0.44
35:BN:22:ILE:HD12	35:BN:40:VAL:HG11	1.99	0.44
36:BO:122:PRO:HB2	36:BO:123:LEU:H	1.53	0.44
36:BO:55:ARG:CA	36:BO:55:ARG:NH2	2.79	0.44
24:BA:627:A:H8	36:BO:75:ILE:CG2	2.31	0.44
36:BO:88:LEU:HG	36:BO:124:LYS:CE	2.46	0.44
37:BP:51:ARG:HH11	37:BP:51:ARG:HG2	1.83	0.44
38:BQ:57:ARG:HH11	38:BQ:57:ARG:CG	2.31	0.44
39:BR:11:LYS:HA	39:BR:14:VAL:CB	2.47	0.44
39:BR:62:LYS:CB	39:BR:65:VAL:CG1	2.88	0.44
39:BR:97:ARG:NH2	39:BR:97:ARG:CG	2.79	0.44
40:BS:50:ILE:HG23	40:BS:68:TYR:CB	2.48	0.44
40:BS:28:VAL:CG2	40:BS:94:ALA:N	2.81	0.44
42:BU:5:VAL:CG2	42:BU:39:LEU:HD22	2.48	0.44
42:BU:73:SER:HG	42:BU:89:GLN:CB	2.23	0.44
42:BU:83:ARG:HD3	42:BU:84:LYS:CA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:33:ARG:HH12	43:BV:48:ALA:CB	2.22	0.44
25:BB:75:G:N2	46:BY:85:HIS:CE1	2.86	0.44
46:BY:9:TYR:HB2	46:BY:14:LYS:HG3	1.98	0.44
47:BZ:50:ASN:HB2	47:BZ:81:VAL:CB	2.46	0.44
3:AD:56:C:C3'	3:AD:57:G:C8	2.99	0.44
24:BA:2142:C:N4	24:BA:2143:C:N4	2.66	0.44
24:BA:2146:C:P	24:BA:2147:G:OP2	2.75	0.44
26:BC:19:ILE:CD1	26:BC:223:ARG:HH11	2.31	0.44
26:BC:26:ALA:O	26:BC:30:LYS:CG	2.65	0.44
45:BX:42:VAL:C	45:BX:61:ILE:HD13	2.38	0.44
48:B1:6:GLU:CA	48:B1:6:GLU:OE1	2.65	0.44
24:BA:1483:G:N3	24:BA:1483:G:C2'	2.78	0.44
24:BA:55:G:H2'	24:BA:56:A:C8	2.53	0.44
37:BP:139:GLU:OE1	37:BP:140:ALA:O	2.36	0.44
2:A1:46:U:O2	3:AB:34:G:C2	2.70	0.44
1:AA:1102:A:C2'	1:AA:1103:C:O5'	2.65	0.44
1:AA:1230:C:O2	15:AP:126:LYS:HG2	2.17	0.44
1:AA:1241:G:C4	1:AA:1242:C:C5	3.06	0.44
1:AA:1301:U:O4	1:AA:1303:C:H1'	2.18	0.44
1:AA:1315:U:O2'	1:AA:1360:A:N9	2.50	0.44
1:AA:139:G:N2	1:AA:225:C:C2	2.86	0.44
1:AA:1401:G:O2'	1:AA:1402:C:H5'	2.17	0.44
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.50	0.44
1:AA:1435:G:H2'	1:AA:1436:U:H5	1.76	0.44
1:AA:1418:A:N1	1:AA:1483:A:N1	2.66	0.44
1:AA:166:G:O2'	1:AA:167:G:C5'	2.60	0.44
1:AA:282:A:C5	1:AA:283:C:C5	3.06	0.44
1:AA:394:G:C5	1:AA:395:C:C5	3.06	0.44
1:AA:44:G:C6	1:AA:399:G:C6	3.06	0.44
1:AA:665:A:C8	1:AA:725:G:C2	3.06	0.44
1:AA:754:C:O5'	17:AR:72:ARG:NH2	2.50	0.44
1:AA:760:G:C2	19:AT:104:LYS:O	2.70	0.44
1:AA:780:A:C2	1:AA:803:G:C6	3.04	0.44
1:AA:830:G:C5	1:AA:831:U:C5	3.06	0.44
1:AA:865:A:C8	1:AA:865:A:OP2	2.71	0.44
1:AA:22:G:O4'	1:AA:885:G:C1'	2.65	0.44
1:AA:894:G:C6	1:AA:895:G:C5	3.06	0.44
1:AA:973:G:C2	1:AA:974:A:N7	2.86	0.44
3:AB:52:G:N1	3:AB:63:G:C6	2.86	0.44
3:AC:4:C:C2	3:AC:5:G:C8	3.06	0.44
3:AC:9:A:C4'	3:AC:10:G:OP2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:106:LYS:O	4:AE:110:GLN:OE1	2.36	0.44
1:AA:1104:G:H4'	4:AE:111:ARG:HH21	1.83	0.44
4:AE:53:ARG:NE	4:AE:199:TYR:CE2	2.82	0.44
4:AE:28:PHE:HA	4:AE:194:PRO:CG	2.48	0.44
4:AE:72:GLY:HA2	4:AE:165:VAL:HG21	1.96	0.44
5:AF:10:PHE:O	5:AF:178:LEU:HD22	2.17	0.44
5:AF:159:GLY:O	5:AF:160:ALA:O	2.36	0.44
5:AF:39:ILE:O	5:AF:40:ARG:C	2.54	0.44
5:AF:82:GLU:OE1	5:AF:83:ARG:N	2.51	0.44
6:AG:85:LYS:HZ3	6:AG:85:LYS:HB3	1.79	0.44
7:AH:19:MET:HE3	7:AH:20:GLN:N	2.32	0.44
8:AI:60:PHE:CZ	20:AU:78:LEU:HD21	2.52	0.44
9:AJ:126:ASP:O	9:AJ:131:LYS:HG3	2.17	0.44
9:AJ:74:GLU:CA	9:AJ:145:ALA:HB1	2.46	0.44
10:AK:100:ILE:CG2	10:AK:121:ASP:HA	2.48	0.44
10:AK:107:LEU:CD2	10:AK:107:LEU:N	2.78	0.44
10:AK:22:GLU:CB	10:AK:63:LEU:HD22	2.47	0.44
1:AA:1342:C:O2'	11:AL:124:GLN:CA	2.66	0.44
11:AL:72:GLY:HA2	11:AL:75:ASP:OD2	2.18	0.44
11:AL:89:ASN:O	11:AL:91:ASP:N	2.50	0.44
5:AF:23:TYR:CG	12:AM:11:PHE:HB2	2.53	0.44
12:AM:40:LEU:HD12	12:AM:69:ASN:HB3	1.99	0.44
12:AM:30:SER:CA	12:AM:80:LYS:HG3	2.48	0.44
13:AN:18:ARG:HB3	13:AN:83:ILE:CD1	2.48	0.44
14:AO:33:ARG:HG3	14:AO:60:LEU:HD23	2.00	0.44
14:AO:53:ARG:NH1	14:AO:93:LEU:HD22	2.32	0.44
15:AP:98:VAL:HG23	15:AP:110:ARG:NH2	2.24	0.44
16:AQ:29:ARG:HD3	16:AQ:40:CYS:HB3	2.00	0.44
17:AR:67:LEU:O	17:AR:70:LEU:CB	2.60	0.44
17:AR:77:ARG:HH12	17:AR:81:LEU:CA	2.28	0.44
19:AT:41:LYS:C	19:AT:42:TYR:CD1	2.91	0.44
19:AT:62:SER:HB2	19:AT:63:ARG:H	1.65	0.44
19:AT:81:ARG:CG	19:AT:84:LEU:HD11	2.47	0.44
8:AI:98:LEU:HD23	20:AU:28:GLU:HA	2.00	0.44
21:AV:63:THR:O	21:AV:64:GLU:C	2.56	0.44
1:AA:108:G:C5	22:AW:15:ARG:CZ	3.01	0.44
22:AW:30:LYS:O	22:AW:31:SER:C	2.56	0.44
22:AW:50:GLU:HB2	22:AW:99:LEU:HD12	1.99	0.44
50:B3:59:PHE:HA	50:B3:62:ARG:NE	2.33	0.44
51:B4:12:SER:HB3	51:B4:14:ALA:CB	2.47	0.44
24:BA:2020:A:C8	51:B4:9:LYS:NZ	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:B5:13:CYS:HA	52:B5:23:THR:O	2.18	0.44
53:B6:21:ARG:CB	53:B6:31:LEU:HD21	2.47	0.44
53:B6:45:ALA:O	53:B6:46:VAL:C	2.56	0.44
53:B6:47:ARG:CG	53:B6:48:LYS:N	2.78	0.44
54:B7:31:HIS:O	54:B7:32:LEU:CD2	2.65	0.44
24:BA:242:G:C3'	54:B7:4:MET:SD	3.02	0.44
24:BA:1024:G:N7	24:BA:1134:G:H1'	2.33	0.44
24:BA:1090:U:C4	24:BA:1103:A:N1	2.86	0.44
24:BA:78:A:C2	24:BA:109:G:C2	3.05	0.44
24:BA:1025:G:H8	24:BA:1134:G:C1'	2.31	0.44
24:BA:1171:G:P	24:BA:1171:G:O4'	2.76	0.44
24:BA:974:G:O2'	24:BA:1186:G:N3	2.38	0.44
24:BA:1260:G:H2'	24:BA:1260:G:N3	2.33	0.44
24:BA:1314:C:C2	24:BA:1315:C:C6	3.05	0.44
24:BA:1314:C:C4	24:BA:1315:C:N4	2.86	0.44
24:BA:1314:C:C2	24:BA:1339:G:C2	3.05	0.44
24:BA:1435:G:C4	24:BA:1436:G:C8	3.06	0.44
24:BA:144:C:C2	24:BA:145:G:C8	3.06	0.44
24:BA:1464:C:C2	24:BA:1465:G:C8	3.05	0.44
24:BA:1477:A:H2	24:BA:1516:U:C2	2.35	0.44
24:BA:1518:C:N3	24:BA:1519:G:C1'	2.81	0.44
24:BA:1537:C:O5'	24:BA:1537:C:H6	2.01	0.44
24:BA:1608:A:C8	24:BA:1611:C:N4	2.86	0.44
24:BA:1741:C:C2'	24:BA:1742:C:O4'	2.66	0.44
24:BA:1769:G:C2	24:BA:1984:G:C5	3.06	0.44
24:BA:118:A:H1'	24:BA:178:G:H4'	2.00	0.44
24:BA:2009:G:O3'	43:BV:41:LYS:HG2	2.17	0.44
24:BA:2082:A:C2	24:BA:2083:G:C4	3.06	0.44
24:BA:2094:G:C2	24:BA:2196:C:N3	2.86	0.44
24:BA:2266:A:C4	24:BA:2272:U:C5	3.06	0.44
24:BA:2431:U:O2	24:BA:2433:A:N3	2.51	0.44
24:BA:2444:G:N1	24:BA:2445:G:C6	2.85	0.44
24:BA:2487:G:C2'	24:BA:2488:A:O5'	2.65	0.44
24:BA:250:G:O2'	24:BA:251:A:O5'	2.36	0.44
24:BA:2530:A:C3'	24:BA:2531:A:C5'	2.90	0.44
24:BA:25:U:O2	24:BA:25:U:C2'	2.66	0.44
24:BA:2630:G:C4	24:BA:2894:G:C5	3.06	0.44
24:BA:2655:G:O2'	24:BA:2656:U:C5	2.67	0.44
24:BA:1665:A:H8	24:BA:2726:U:H3	1.54	0.44
24:BA:2748:A:C5	24:BA:2757:A:N6	2.86	0.44
24:BA:2823:A:OP2	28:BE:113:PHE:CZ	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2832:U:H2'	24:BA:2832:U:O2	2.18	0.44
24:BA:2848:G:O2'	24:BA:2849:U:O5'	2.34	0.44
24:BA:2875:C:O5'	24:BA:2875:C:H6	2.01	0.44
24:BA:2880:C:C6	38:BQ:91:GLN:HB3	2.52	0.44
24:BA:28:A:H2'	24:BA:29:U:C5'	2.45	0.44
24:BA:301:G:H5''	24:BA:335:C:OP1	2.18	0.44
24:BA:300:A:HO2'	24:BA:318:C:H1'	1.83	0.44
24:BA:35:G:N9	24:BA:454:A:N3	2.65	0.44
24:BA:389:G:P	50:B3:24:THR:HG23	2.57	0.44
24:BA:411:G:C2	24:BA:2407:G:C6	3.05	0.44
24:BA:414:C:H2'	24:BA:415:A:H8	1.82	0.44
24:BA:467:G:HO2'	24:BA:796:C:HO2'	1.63	0.44
24:BA:480:A:H3'	24:BA:481:G:H5''	1.99	0.44
24:BA:514:A:O2'	24:BA:515:A:H5'	2.17	0.44
24:BA:523:C:H2'	24:BA:524:U:O4'	2.18	0.44
24:BA:543:C:O2	24:BA:544:C:C5	2.71	0.44
24:BA:659:C:H4'	29:BF:102:PRO:HD3	2.00	0.44
24:BA:675:A:C5	24:BA:676:A:N1	2.86	0.44
24:BA:687:C:H2'	24:BA:688:U:C6	2.52	0.44
24:BA:944:G:N3	24:BA:944:G:H2'	2.32	0.44
24:BA:95:G:O2'	48:B1:42:ASN:CB	2.64	0.44
24:BA:1818:U:C4	27:BD:156:ALA:HB3	2.53	0.44
27:BD:226:MET:HE1	27:BD:237:GLU:H	1.83	0.44
27:BD:252:TRP:HE3	27:BD:252:TRP:HA	1.80	0.44
27:BD:264:LYS:HB2	27:BD:265:PRO:CD	2.47	0.44
27:BD:70:TRP:O	27:BD:73:VAL:HG22	2.18	0.44
28:BE:55:ASN:CB	28:BE:73:GLU:CD	2.86	0.44
29:BF:118:ALA:HA	29:BF:122:LYS:HZ3	1.83	0.44
29:BF:37:VAL:O	29:BF:41:LEU:CD2	2.66	0.44
30:BG:135:LEU:CD2	30:BG:137:GLU:N	2.80	0.44
24:BA:2312:U:C5'	30:BG:43:LEU:HD21	2.43	0.44
30:BG:63:ILE:HA	30:BG:63:ILE:HD12	1.92	0.44
31:BH:15:VAL:CG2	31:BH:16:SER:N	2.81	0.44
31:BH:7:LEU:CA	31:BH:52:VAL:CG1	2.95	0.44
31:BH:7:LEU:CD2	31:BH:65:HIS:NE2	2.78	0.44
31:BH:75:ALA:O	31:BH:79:VAL:HG22	2.18	0.44
32:BK:10:GLU:O	32:BK:11:ASN:OD1	2.35	0.44
32:BK:45:LYS:O	32:BK:46:ALA:C	2.55	0.44
33:BL:104:VAL:HG22	33:BL:127:ILE:CG2	2.48	0.44
33:BL:76:TYR:O	33:BL:80:LYS:CD	2.49	0.44
34:BM:136:GLU:O	34:BM:137:LYS:CG	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:19:GLU:HB2	34:BM:56:ASN:HB2	1.97	0.44
34:BM:2:LYS:HB3	34:BM:2:LYS:HE2	1.83	0.44
34:BM:69:GLN:HE22	34:BM:87:LEU:CD2	2.02	0.44
34:BM:96:GLU:O	34:BM:99:LEU:CG	2.50	0.44
35:BN:106:LEU:CD2	40:BS:38:ASN:ND2	2.81	0.44
35:BN:106:LEU:HD12	35:BN:107:ARG:HA	2.00	0.44
35:BN:105:GLU:O	35:BN:107:ARG:N	2.51	0.44
35:BN:59:LYS:HB3	35:BN:86:ILE:H	1.83	0.44
29:BF:31:HIS:CE1	36:BO:11:GLY:HA3	2.52	0.44
37:BP:25:ASP:CA	37:BP:102:VAL:HG12	2.48	0.44
37:BP:116:GLU:HA	37:BP:119:ARG:HD3	1.99	0.44
24:BA:2690:C:C4	38:BQ:14:SER:HB2	2.53	0.44
24:BA:1652:A:OP1	38:BQ:39:PRO:HG2	2.18	0.44
39:BR:49:VAL:HG11	39:BR:80:LEU:CG	2.32	0.44
39:BR:70:GLY:HA3	39:BR:104:GLY:HA3	1.99	0.44
40:BS:26:ASP:O	40:BS:52:ILE:HG22	2.17	0.44
40:BS:61:PHE:HD1	40:BS:81:PRO:CD	2.24	0.44
35:BN:75:SER:O	40:BS:77:PRO:HG2	2.18	0.44
40:BS:23:ARG:HH21	40:BS:90:GLN:N	2.16	0.44
24:BA:2020:A:OP2	41:BT:27:LEU:CD2	2.65	0.44
41:BT:24:TYR:O	41:BT:29:SER:HB3	2.17	0.44
41:BT:55:ARG:NH1	41:BT:55:ARG:CG	2.63	0.44
41:BT:89:GLU:O	41:BT:90:VAL:HG23	2.18	0.44
42:BU:33:VAL:CG1	42:BU:34:GLU:H	2.31	0.44
42:BU:69:LYS:HE2	42:BU:70:ILE:CG1	2.48	0.44
43:BV:13:SER:O	43:BV:17:VAL:CG2	2.65	0.44
43:BV:13:SER:OG	43:BV:16:LYS:CE	2.65	0.44
44:BW:28:PHE:N	44:BW:28:PHE:CD2	2.83	0.44
44:BW:36:LYS:HE3	44:BW:56:THR:CG2	2.47	0.44
24:BA:71:A:O2'	44:BW:5:TYR:CE2	2.67	0.44
44:BW:29:TRP:HB2	44:BW:76:ARG:HH21	1.82	0.44
45:BX:74:PRO:CG	45:BX:100:ALA:HB3	2.45	0.44
45:BX:72:VAL:HG23	45:BX:81:LYS:HE2	1.97	0.44
46:BY:55:HIS:HB3	46:BY:101:PRO:CD	2.47	0.44
46:BY:114:GLY:N	46:BY:145:GLU:OE2	2.50	0.44
46:BY:49:ARG:C	46:BY:51:ALA:H	2.21	0.44
3:AD:62:C:H6	3:AD:62:C:O5'	2.01	0.44
26:BC:103:ILE:HD13	26:BC:110:PHE:HZ	1.83	0.44
26:BC:200:LYS:O	26:BC:200:LYS:CG	2.63	0.44
26:BC:13:LYS:CB	26:BC:32:LEU:HD23	2.48	0.44
26:BC:64:LEU:CB	26:BC:188:ASN:HD21	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:73:ARG:CG	26:BC:93:TYR:HE2	2.30	0.44
1:AA:344:A:H5''	1:AA:345:C:H5	1.78	0.44
1:AA:160:A:C1'	1:AA:344:A:H62	2.31	0.44
33:BL:98:ARG:HA	33:BL:137:GLU:O	2.17	0.44
24:BA:487:C:O5'	24:BA:487:C:C6	2.70	0.44
1:AA:1011:G:N1	1:AA:1012:U:H1'	2.33	0.44
24:BA:1284:A:C2	24:BA:1285:G:C2	3.05	0.44
24:BA:2181:G:N2	24:BA:2182:G:C4	2.85	0.44
24:BA:2180:U:H2'	24:BA:2181:G:O4'	2.18	0.44
1:AA:74:C:N3	1:AA:75:C:C5	2.86	0.44
2:A1:37:U:H2'	2:A1:38:U:C5	2.53	0.44
1:AA:1142:G:C4	1:AA:1143:G:C8	3.06	0.44
1:AA:119:A:H62	1:AA:287:U:H3	1.66	0.44
1:AA:1389:C:H2'	1:AA:1390:U:C4'	2.47	0.44
1:AA:142:G:N3	1:AA:142:G:H2'	2.32	0.44
1:AA:1431:C:O2	1:AA:1432:G:C1'	2.66	0.44
1:AA:152:A:C3'	1:AA:152:A:C8	3.00	0.44
1:AA:166:G:C2'	1:AA:167:G:O5'	2.66	0.44
1:AA:186(A):C:C4'	22:AW:85:MET:HG3	2.47	0.44
1:AA:187:C:N3	1:AA:188:U:O2	2.51	0.44
1:AA:270:A:C8	1:AA:270:A:OP2	2.69	0.44
1:AA:245:C:N3	1:AA:284:G:C6	2.85	0.44
1:AA:298:A:C2	1:AA:299:G:H1'	2.53	0.44
1:AA:321:A:HO2'	1:AA:322:C:H6	1.66	0.44
1:AA:352:C:H6	1:AA:352:C:P	2.40	0.44
1:AA:355:C:C2	1:AA:356:A:C8	3.06	0.44
1:AA:398:C:H2'	1:AA:399:G:H8	1.82	0.44
1:AA:420:U:H1'	1:AA:424:G:N2	2.32	0.44
1:AA:529:G:N1	14:AO:49:ASN:CG	2.71	0.44
1:AA:535:A:C4'	1:AA:536:C:OP2	2.63	0.44
1:AA:581:G:O6	1:AA:758:G:N7	2.51	0.44
1:AA:597:G:C2'	1:AA:598:U:C5'	2.94	0.44
1:AA:645:C:O2'	1:AA:646:U:H5'	2.18	0.44
1:AA:818:G:H3'	1:AA:820:U:OP2	2.17	0.44
1:AA:907:A:N3	1:AA:908:A:C8	2.86	0.44
1:AA:926:G:C4	1:AA:1505:G:C2	3.05	0.44
1:AA:938:A:C2'	1:AA:939:G:O5'	2.66	0.44
1:AA:93:U:H2'	1:AA:95:G:N7	2.31	0.44
3:AB:63:G:C1'	24:BA:2482:G:C4'	2.91	0.44
3:AC:29:G:C6	3:AC:42:C:N3	2.86	0.44
4:AE:152:PHE:HZ	4:AE:155:LEU:O	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:208:ILE:O	4:AE:211:ILE:HB	2.18	0.44
4:AE:8:LYS:HB3	4:AE:9:GLU:H	1.61	0.44
5:AF:147:LYS:HB2	5:AF:203:PHE:HD2	1.83	0.44
5:AF:98:ASN:C	5:AF:99:VAL:CG1	2.86	0.44
6:AG:165:MET:CG	6:AG:166:LYS:N	2.81	0.44
6:AG:55:ALA:C	6:AG:59:ARG:HG2	2.31	0.44
6:AG:76:ARG:O	6:AG:80:GLU:HG3	2.18	0.44
7:AH:91:LEU:C	7:AH:91:LEU:CD2	2.68	0.44
7:AH:96:PRO:O	7:AH:97:GLY:C	2.55	0.44
8:AI:9:VAL:HA	8:AI:10:LEU:HD23	2.00	0.44
8:AI:81:ILE:CG2	8:AI:82:ARG:N	2.56	0.44
9:AJ:36:LYS:HA	9:AJ:36:LYS:HZ1	1.75	0.44
9:AJ:65:ALA:HA	9:AJ:68:ASN:HD22	1.83	0.44
11:AL:50:LEU:CD1	11:AL:56:LEU:HG	2.41	0.44
5:AF:23:TYR:CD1	12:AM:11:PHE:N	2.86	0.44
13:AN:99:GLN:O	13:AN:102:GLY:HA2	2.18	0.44
1:AA:718:G:C4'	13:AN:117:ASN:ND2	2.81	0.44
14:AO:102:ARG:NE	14:AO:109:GLY:HA2	2.33	0.44
14:AO:78:GLN:N	14:AO:81:SER:OG	2.51	0.44
17:AR:7:GLU:C	17:AR:10:LYS:HG2	2.34	0.44
17:AR:27:VAL:O	17:AR:31:LEU:HD13	2.18	0.44
18:AS:8:ARG:HD3	18:AS:15:PRO:CB	2.47	0.44
19:AT:15:MET:CE	19:AT:15:MET:H	2.30	0.44
19:AT:18:THR:HG22	19:AT:43:LEU:CD2	2.31	0.44
19:AT:58:GLU:OE1	19:AT:58:GLU:C	2.55	0.44
21:AV:47:HIS:H	21:AV:62:ILE:HG23	1.82	0.44
1:AA:1225:A:H5'	21:AV:78:ARG:NH1	2.32	0.44
22:AW:88:VAL:O	22:AW:92:LEU:CG	2.66	0.44
48:B1:50:ARG:HB2	48:B1:54:ARG:NH1	2.33	0.44
49:B2:2:PRO:HD2	49:B2:39:ASP:HB3	2.00	0.44
49:B2:7:LYS:O	49:B2:54:VAL:CG2	2.59	0.44
50:B3:6:HIS:CG	50:B3:56:VAL:HA	2.53	0.44
53:B6:19:ARG:HH11	53:B6:19:ARG:HG2	1.82	0.44
54:B7:30:ARG:O	54:B7:31:HIS:C	2.56	0.44
54:B7:60:LEU:O	54:B7:61:LEU:C	2.57	0.44
24:BA:2741:A:H5''	55:B8:22:ARG:HH12	1.83	0.44
24:BA:1011:G:O2'	24:BA:1013:C:H4'	2.18	0.44
24:BA:1020:A:H2	24:BA:1140:C:C2'	2.30	0.44
24:BA:1048:A:OP2	24:BA:1110:G:N2	2.50	0.44
24:BA:1057:A:C8	24:BA:1084:A:N6	2.86	0.44
24:BA:1106:G:N1	24:BA:1107:G:C2	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1124:C:H2'	24:BA:1125:G:O4'	2.18	0.44
24:BA:1266:G:C2'	24:BA:1267:U:OP2	2.65	0.44
24:BA:1350:C:O2'	24:BA:1351:C:C5'	2.62	0.44
24:BA:1420:U:O2'	24:BA:1421:G:C8	2.63	0.44
24:BA:145:G:C2	24:BA:146:G:C4	3.06	0.44
24:BA:1591:G:N1	24:BA:1592:C:C4	2.86	0.44
24:BA:1596:A:N6	24:BA:1597:A:N1	2.65	0.44
24:BA:1620:G:C6	24:BA:1621:U:C4	3.06	0.44
24:BA:1753:G:C6	24:BA:1756:G:C6	3.06	0.44
24:BA:1769:G:C6	24:BA:1984:G:O6	2.71	0.44
24:BA:1777:U:H6	24:BA:1777:U:O5'	2.00	0.44
24:BA:1784:A:H2'	24:BA:1981:A:C8	2.53	0.44
24:BA:1789:A:H4'	27:BD:222:ARG:NE	2.33	0.44
3:AB:12:U:C5'	24:BA:1915:U:H5'	2.47	0.44
24:BA:563:G:C6	24:BA:2018:G:C6	3.06	0.44
24:BA:2026:C:H2'	24:BA:2027:G:C5'	2.48	0.44
24:BA:2092:U:P	24:BA:2199:A:H1'	2.57	0.44
24:BA:2199:A:C2	24:BA:2205:C:C6	3.06	0.44
24:BA:2414:G:C6	24:BA:2415:G:N7	2.86	0.44
24:BA:197:A:C6	24:BA:2430:A:N7	2.86	0.44
3:AB:52:G:H1'	24:BA:2470:G:O2'	2.17	0.44
24:BA:2543:G:H2'	24:BA:2544:G:C8	2.53	0.44
24:BA:2634:G:O2'	24:BA:2635:C:O5'	2.35	0.44
24:BA:2695:C:O2'	24:BA:2696:U:H6	2.00	0.44
24:BA:2719:G:O5'	24:BA:2719:G:C8	2.70	0.44
24:BA:2786:U:N3	24:BA:2787:C:C5	2.85	0.44
24:BA:292:C:H3'	24:BA:293:U:C2	2.51	0.44
24:BA:35:G:H21	24:BA:450:G:N2	2.16	0.44
24:BA:378:C:O2'	24:BA:379:G:C5'	2.63	0.44
24:BA:447:A:O2'	24:BA:448:U:C5'	2.66	0.44
24:BA:462:C:H42	24:BA:467:G:H1	1.65	0.44
24:BA:463:G:O3'	24:BA:464:U:C5	2.71	0.44
24:BA:499:U:C2'	24:BA:500:G:H5'	2.48	0.44
24:BA:508:G:H4'	24:BA:509:C:O5'	2.18	0.44
24:BA:609:A:N6	24:BA:619:G:N2	2.61	0.44
24:BA:649:G:O2'	54:B7:17:THR:CG2	2.66	0.44
24:BA:687:C:O5'	24:BA:688:U:OP2	2.35	0.44
24:BA:718:A:C5'	24:BA:719:C:OP2	2.66	0.44
24:BA:814:C:C4'	24:BA:1224:G:H22	2.30	0.44
24:BA:819:A:C2'	24:BA:820:A:O4'	2.65	0.44
24:BA:850:C:O2'	49:B2:22:ALA:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:872:A:H2'	24:BA:872:A:N3	2.33	0.44
24:BA:923:C:H4'	47:BZ:26:TYR:CD1	2.53	0.44
24:BA:968:G:C6	24:BA:969:U:C4	3.06	0.44
24:BA:971:C:O2	24:BA:972:G:H1'	2.17	0.44
24:BA:986:C:O5'	24:BA:986:C:C6	2.67	0.44
24:BA:997:G:O3'	41:BT:92:ARG:NH1	2.50	0.44
25:BB:65:C:C4	25:BB:108:C:C4	3.06	0.44
24:BA:1825:A:OP1	27:BD:247:ALA:HB2	2.16	0.44
27:BD:68:LYS:HG2	27:BD:70:TRP:HZ2	1.82	0.44
28:BE:115:GLY:O	28:BE:118:LYS:N	2.50	0.44
29:BF:11:VAL:HG12	29:BF:13:SER:H	1.83	0.44
29:BF:34:TRP:HA	29:BF:34:TRP:HE3	1.77	0.44
29:BF:38:ARG:O	29:BF:41:LEU:HG	2.18	0.44
24:BA:588:U:H1'	29:BF:90:PHE:CD1	2.52	0.44
30:BG:131:TYR:CD2	30:BG:158:ALA:CB	3.01	0.44
30:BG:131:TYR:CE2	30:BG:132:ASN:HA	2.53	0.44
31:BH:94:TYR:OH	31:BH:128:PRO:CG	2.62	0.44
33:BL:79:ARG:CD	33:BL:134:MET:SD	2.97	0.44
33:BL:20:ALA:O	33:BL:25:PRO:HD2	2.17	0.44
34:BM:74:ARG:HH11	34:BM:76:SER:HB2	1.82	0.44
34:BM:70:LYS:CA	34:BM:85:ILE:O	2.62	0.44
24:BA:2562:U:O2'	35:BN:23:ARG:NH2	2.51	0.44
36:BO:116:GLY:HA3	36:BO:121:LYS:C	2.37	0.44
36:BO:23:PRO:HB2	36:BO:29:LYS:N	2.28	0.44
37:BP:130:LYS:HZ2	37:BP:132:VAL:CG1	2.31	0.44
37:BP:68:ILE:CG2	37:BP:95:ALA:HB2	2.48	0.44
37:BP:75:THR:HG22	37:BP:77:LYS:CA	2.47	0.44
37:BP:76:LYS:NZ	37:BP:78:PRO:O	2.51	0.44
38:BQ:45:ARG:HA	38:BQ:95:THR:HG21	1.99	0.44
39:BR:41:ASP:OD2	39:BR:42:ASP:O	2.36	0.44
24:BA:2334:G:OP2	39:BR:8:GLU:OE2	2.35	0.44
40:BS:80:SER:CB	40:BS:81:PRO:HD3	2.45	0.44
24:BA:2847:U:C5'	40:BS:99:LEU:HD12	2.48	0.44
34:BM:4:TYR:CZ	41:BT:101:ARG:NH1	2.86	0.44
41:BT:31:SER:O	41:BT:33:ARG:N	2.51	0.44
41:BT:61:TRP:O	41:BT:65:ILE:CD1	2.66	0.44
42:BU:35:LEU:O	42:BU:61:VAL:CG1	2.64	0.44
42:BU:73:SER:C	42:BU:74:LYS:HD3	2.38	0.44
43:BV:20:VAL:O	43:BV:24:ILE:HG12	2.18	0.44
44:BW:36:LYS:HD3	44:BW:39:ILE:CD1	2.45	0.44
24:BA:1312:U:O3'	44:BW:63:LYS:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1334:G:C5'	44:BW:65:ARG:NH1	2.73	0.44
45:BX:13:VAL:HA	45:BX:73:ARG:HH11	1.83	0.44
46:BY:2:GLU:C	46:BY:3:TYR:CG	2.91	0.44
46:BY:41:LEU:CA	46:BY:44:PHE:HB2	2.48	0.44
46:BY:47:VAL:O	46:BY:50:GLN:N	2.50	0.44
46:BY:70:LEU:O	46:BY:88:PHE:CA	2.64	0.44
47:BZ:47:PRO:CG	47:BZ:53:MET:HB2	2.44	0.44
24:BA:2122:U:H1'	26:BC:166:ASP:OD2	2.18	0.44
24:BA:2135:A:C2'	24:BA:2136:C:OP2	2.66	0.44
26:BC:45:ALA:CB	26:BC:211:SER:O	2.65	0.44
26:BC:224:ILE:O	26:BC:226:PRO:HD3	2.18	0.44
1:AA:1166:G:N3	1:AA:1171:G:O6	2.50	0.44
3:AD:67:C:C4	3:AD:68:C:C5	3.06	0.44
1:AA:112:G:H2'	1:AA:112:G:N3	2.32	0.43
1:AA:1228:C:H4'	15:AP:115:LYS:O	2.17	0.43
1:AA:129(A):G:C8	1:AA:189:U:OP1	2.71	0.43
1:AA:1236:A:C4'	1:AA:1304:G:H4'	2.28	0.43
1:AA:133:U:H5'	1:AA:134:A:OP1	2.17	0.43
1:AA:1408:A:C2	1:AA:1494:G:O2'	2.60	0.43
1:AA:20:U:O2	1:AA:20:U:C2'	2.65	0.43
1:AA:250:A:O2'	1:AA:251:G:P	2.76	0.43
1:AA:261:U:O4	1:AA:264:U:OP2	2.36	0.43
1:AA:270:A:C4	1:AA:271:C:C5	3.06	0.43
1:AA:57:G:O6	1:AA:356:A:N6	2.51	0.43
1:AA:421:U:C2	5:AF:127:ARG:CZ	3.01	0.43
1:AA:594:G:C3'	1:AA:595:G:O4'	2.65	0.43
1:AA:66:G:N1	1:AA:67:C:C4	2.86	0.43
1:AA:675:A:C2'	1:AA:676:A:H8	2.31	0.43
1:AA:679:C:O2'	1:AA:680:C:C5'	2.65	0.43
1:AA:712:A:C6	1:AA:713:G:C6	3.06	0.43
1:AA:666:G:H4'	1:AA:731:G:N2	2.33	0.43
1:AA:734:G:H2'	1:AA:735:C:C5	2.50	0.43
1:AA:736:C:H5''	20:AU:72:ARG:CZ	2.44	0.43
1:AA:787:A:H2'	1:AA:787:A:N3	2.33	0.43
1:AA:832:C:H2'	1:AA:833:U:C5	2.53	0.43
1:AA:977:A:O2'	1:AA:979:C:P	2.75	0.43
3:AC:21:A:H61	3:AC:46:G:N2	2.12	0.43
4:AE:111:ARG:O	4:AE:114:ARG:HG3	2.18	0.43
4:AE:146:GLN:NE2	4:AE:150:SER:CB	2.72	0.43
5:AF:138:VAL:HG13	5:AF:149:ALA:CB	2.48	0.43
5:AF:67:THR:HG23	5:AF:102:ASN:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:112:VAL:CG2	6:AG:161:ASN:ND2	2.78	0.43
6:AG:166:LYS:CD	6:AG:178:VAL:HG12	2.48	0.43
7:AH:105:VAL:CG1	7:AH:132:ALA:HA	2.48	0.43
8:AI:12:PRO:HB3	8:AI:58:GLY:CA	2.23	0.43
8:AI:36:ARG:HH11	8:AI:36:ARG:HB2	1.81	0.43
8:AI:67:MET:SD	8:AI:67:MET:C	2.96	0.43
1:AA:1298:C:N1	9:AJ:114:ARG:NH1	2.66	0.43
9:AJ:150:ALA:HA	13:AN:59:TYR:CB	2.48	0.43
9:AJ:90:GLU:O	9:AJ:92:SER:N	2.50	0.43
7:AH:79:GLU:O	10:AK:104:ARG:NH1	2.50	0.43
10:AK:45:ILE:HG13	10:AK:47:GLY:N	2.32	0.43
10:AK:72:PRO:O	10:AK:73:ASP:CB	2.66	0.43
10:AK:95:VAL:HB	10:AK:99:GLU:CD	2.38	0.43
1:AA:1148:U:H6	11:AL:16:ARG:CZ	2.30	0.43
11:AL:93:ARG:C	11:AL:95:LYS:H	2.19	0.43
12:AM:43:ARG:HG3	12:AM:44:VAL:N	2.33	0.43
13:AN:110:ASP:HB2	20:AU:88:LYS:HB3	1.95	0.43
14:AO:11:VAL:HG12	14:AO:11:VAL:O	2.18	0.43
14:AO:34:ARG:CA	14:AO:84:LEU:HD12	2.48	0.43
14:AO:41:ARG:CB	14:AO:41:ARG:CZ	2.95	0.43
15:AP:68:GLY:O	15:AP:71:ARG:HB2	2.18	0.43
15:AP:94:ARG:NH2	24:BA:887:A:OP2	2.51	0.43
5:AF:8:ILE:CG2	16:AQ:49:HIS:O	2.66	0.43
17:AR:18:PHE:CE1	17:AR:21:ASP:HB2	2.53	0.43
18:AS:38:TYR:CE1	18:AS:50:LYS:HB3	2.53	0.43
18:AS:59:TRP:O	18:AS:61:SER:N	2.51	0.43
19:AT:27:PHE:C	19:AT:35:VAL:HG13	2.38	0.43
20:AU:69:THR:HA	20:AU:72:ARG:CG	2.42	0.43
21:AV:46:GLY:C	21:AV:61:TYR:HE2	2.22	0.43
22:AW:99:LEU:N	22:AW:99:LEU:HD23	2.33	0.43
1:AA:1242:C:O3'	23:AX:10:ARG:NH1	2.50	0.43
48:B1:16:LEU:HD22	48:B1:58:VAL:CG2	2.47	0.43
48:B1:36:ILE:C	48:B1:38:GLN:HG3	2.39	0.43
24:BA:1158:C:C5'	49:B2:31:LEU:HB3	2.47	0.43
50:B3:40:HIS:HB3	50:B3:41:PRO:HD3	1.97	0.43
24:BA:1266:G:OP1	51:B4:19:ARG:NE	2.51	0.43
51:B4:31:VAL:HB	51:B4:32:PRO:HD2	1.99	0.43
53:B6:30:VAL:HG22	53:B6:33:ARG:HH21	1.82	0.43
53:B6:34:ARG:O	53:B6:35:ARG:C	2.56	0.43
54:B7:39:LYS:HA	54:B7:42:ARG:CD	2.48	0.43
54:B7:39:LYS:N	54:B7:39:LYS:NZ	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1011:G:OP2	41:BT:75:ASN:OD1	2.35	0.43
24:BA:110:G:O6	24:BA:111:A:N6	2.51	0.43
24:BA:116:C:H4'	24:BA:127:A:H4'	1.99	0.43
24:BA:1268:A:H2'	24:BA:1269:A:O4'	2.18	0.43
24:BA:1317:A:C6	24:BA:1318:C:C4	3.06	0.43
24:BA:1323:U:OP2	43:BV:84:ARG:NH1	2.51	0.43
24:BA:1344:G:C5	24:BA:1385:G:N7	2.86	0.43
24:BA:138:G:H21	24:BA:140:A:H62	1.64	0.43
24:BA:1471:A:C6	24:BA:1473:G:C8	3.06	0.43
24:BA:1532:C:P	24:BA:1532:C:H3'	2.57	0.43
24:BA:1535:U:C4	24:BA:1536:A:C6	3.06	0.43
24:BA:1608:A:C2	24:BA:1611:C:C6	3.06	0.43
24:BA:1655:A:O3'	28:BE:114:ALA:HA	2.18	0.43
24:BA:1775:U:C2'	24:BA:1776:G:O4'	2.60	0.43
24:BA:1890:A:C8	24:BA:1891:G:C8	3.06	0.43
24:BA:1942:C:C6	24:BA:1943:U:C5	3.06	0.43
24:BA:1949:G:N2	24:BA:1958:C:N3	2.66	0.43
24:BA:1983:C:O2'	24:BA:1984:G:C5'	2.58	0.43
24:BA:1667:G:O6	24:BA:1992:G:OP2	2.36	0.43
24:BA:2026:C:C2	24:BA:2027:G:C8	3.06	0.43
24:BA:2273:A:H2'	24:BA:2274:A:H5'	2.00	0.43
24:BA:2314:C:C2	24:BA:2315:G:C8	3.06	0.43
24:BA:411:G:C2	24:BA:2407:G:N7	2.86	0.43
24:BA:2417:C:O2'	24:BA:2418:A:H5'	2.18	0.43
24:BA:2444:G:C2	24:BA:2445:G:C5	3.05	0.43
24:BA:2583:G:C4	24:BA:2584:U:N3	2.83	0.43
24:BA:2602:A:O2'	24:BA:2603:G:P	2.75	0.43
24:BA:268:C:C2	24:BA:269:U:C5	3.06	0.43
24:BA:1754:C:C4	24:BA:2717:G:H5'	2.53	0.43
24:BA:2784:C:C4'	28:BE:41:LYS:CE	2.95	0.43
24:BA:2833:G:N3	24:BA:2833:G:C2'	2.79	0.43
24:BA:30:G:N7	24:BA:31:C:C5	2.86	0.43
24:BA:351:G:C2'	24:BA:352:G:OP2	2.66	0.43
24:BA:419:C:C4	24:BA:420:C:C4	3.06	0.43
24:BA:423:A:OP2	24:BA:423:A:H3'	2.17	0.43
24:BA:447:A:HO2'	24:BA:448:U:C5'	2.30	0.43
24:BA:454:A:C8	24:BA:454:A:C3'	3.01	0.43
24:BA:481:G:C2'	24:BA:507:A:N6	2.81	0.43
24:BA:507:A:H5'	24:BA:509:C:O4'	2.18	0.43
24:BA:535:C:C4'	41:BT:49:HIS:HB3	2.48	0.43
24:BA:566:U:C4'	42:BU:82:ARG:HH22	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:567:A:N1	24:BA:568:U:C2	2.86	0.43
24:BA:682:G:H2'	24:BA:683:C:C6	2.53	0.43
24:BA:701:G:H5'	24:BA:1632:A:H1'	2.00	0.43
24:BA:860:U:H5	24:BA:2267:A:C4'	2.31	0.43
24:BA:972:G:H3'	24:BA:973:A:C3'	2.48	0.43
25:BB:73:A:N7	25:BB:104:A:C4	2.86	0.43
25:BB:24:G:H21	25:BB:27:C:H42	1.63	0.43
25:BB:29:A:H2'	25:BB:30:C:O4'	2.18	0.43
25:BB:9:G:C2'	25:BB:9:G:N3	2.78	0.43
24:BA:2051:A:H1'	28:BE:141:ILE:CD1	2.48	0.43
28:BE:172:VAL:HA	28:BE:184:VAL:CG1	2.43	0.43
28:BE:194:GLY:O	28:BE:195:LEU:HD22	2.17	0.43
28:BE:49:LEU:HD21	28:BE:75:VAL:N	2.32	0.43
24:BA:1255:U:O4	29:BF:72:ARG:O	2.36	0.43
30:BG:32:PRO:HB2	30:BG:163:ALA:CB	2.48	0.43
30:BG:50:ALA:O	30:BG:54:GLU:CD	2.56	0.43
30:BG:8:LYS:HZ1	30:BG:103:LEU:CG	2.30	0.43
31:BH:26:VAL:C	31:BH:79:VAL:HG11	2.39	0.43
31:BH:52:VAL:HG22	31:BH:65:HIS:ND1	2.32	0.43
31:BH:8:PRO:HB3	31:BH:51:ARG:NH1	2.17	0.43
33:BL:104:VAL:HG13	33:BL:127:ILE:CD1	2.47	0.43
33:BL:106:GLU:HA	33:BL:109:LYS:CE	2.46	0.43
33:BL:88:ALA:O	33:BL:90:LYS:N	2.40	0.43
24:BA:1007:C:H4'	34:BM:108:PRO:CG	2.47	0.43
34:BM:46:VAL:HG11	34:BM:119:ARG:HH22	1.81	0.43
34:BM:54:VAL:HG12	34:BM:122:VAL:HG11	1.97	0.43
34:BM:74:ARG:CD	34:BM:82:LEU:CD1	2.96	0.43
35:BN:16:ALA:HB1	35:BN:45:GLU:HB2	1.98	0.43
35:BN:88:ASN:C	35:BN:90:GLN:N	2.71	0.43
36:BO:106:LEU:O	36:BO:107:LYS:HB3	2.18	0.43
37:BP:35:VAL:O	37:BP:35:VAL:CG1	2.66	0.43
38:BQ:105:ARG:CG	38:BQ:106:GLY:H	2.27	0.43
38:BQ:37:THR:O	38:BQ:38:VAL:C	2.55	0.43
38:BQ:49:ASP:OD2	38:BQ:50:HIS:N	2.51	0.43
39:BR:103:GLU:CD	39:BR:103:GLU:H	2.21	0.43
39:BR:58:LEU:C	39:BR:60:GLY:H	2.20	0.43
40:BS:103:ARG:HE	40:BS:103:ARG:HB2	1.21	0.43
40:BS:54:ARG:CD	40:BS:55:ASN:ND2	2.73	0.43
41:BT:40:PHE:H	41:BT:40:PHE:HD1	1.66	0.43
24:BA:535:C:O2'	41:BT:53:ARG:HD2	2.18	0.43
41:BT:83:LEU:HB3	41:BT:90:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:22:VAL:HG11	42:BU:24:LYS:NZ	2.33	0.43
42:BU:5:VAL:CG2	42:BU:39:LEU:HA	2.42	0.43
42:BU:65:GLY:O	42:BU:66:ARG:CG	2.47	0.43
24:BA:520:G:P	43:BV:25:ARG:HH12	2.41	0.43
43:BV:21:VAL:HG22	43:BV:75:TYR:CE2	2.53	0.43
44:BW:36:LYS:HZ2	44:BW:36:LYS:HB2	1.83	0.43
44:BW:70:LEU:HD23	44:BW:71:GLY:CA	2.48	0.43
44:BW:8:ILE:C	44:BW:9:LEU:CG	2.76	0.43
45:BX:12:THR:CA	45:BX:73:ARG:CZ	2.95	0.43
46:BY:118:GLN:NE2	46:BY:172:ALA:HB1	2.33	0.43
47:BZ:20:ARG:HB3	47:BZ:21:LEU:H	1.62	0.43
32:BK:93:THR:C	32:BK:95:LYS:N	2.71	0.43
26:BC:89:ALA:CB	26:BC:150:GLY:O	2.66	0.43
26:BC:7:TYR:O	26:BC:10:LEU:N	2.51	0.43
3:AD:41:C:C4	3:AD:42:C:C5	3.06	0.43
1:AA:1029:G:O4'	1:AA:1032(A):G:N2	2.51	0.43
43:BV:2:GLU:OE2	43:BV:2:GLU:HA	2.18	0.43
1:AA:1129:C:H4'	1:AA:1130:A:C8	2.52	0.43
1:AA:1194:U:O5'	1:AA:1194:U:H6	2.01	0.43
1:AA:1203:C:H6	1:AA:1203:C:O5'	2.01	0.43
1:AA:1251:A:N1	1:AA:1285:A:H2	2.16	0.43
1:AA:1126:U:OP2	1:AA:1281:U:C2	2.70	0.43
1:AA:130:A:C6	19:AT:64:PRO:HG2	2.52	0.43
1:AA:1300:G:C6	1:AA:1335:C:C5	3.05	0.43
1:AA:1349:A:H2'	1:AA:1350:A:O4'	2.17	0.43
1:AA:1361:G:C8	1:AA:1362:C:C5	3.06	0.43
1:AA:1430:C:O2'	1:AA:1431:C:H5'	2.17	0.43
1:AA:1454:G:C5	1:AA:1455:G:N7	2.86	0.43
1:AA:1465:C:C4	1:AA:1466:C:C5	3.05	0.43
1:AA:927:G:C4'	1:AA:1503:A:N7	2.80	0.43
1:AA:186(A):C:H4'	22:AW:85:MET:HG3	2.00	0.43
1:AA:251:G:N3	1:AA:266:G:O6	2.51	0.43
1:AA:294:U:C2	1:AA:295:C:H5	2.34	0.43
1:AA:301:G:C2	1:AA:302:G:C4	3.05	0.43
1:AA:429:U:C1'	1:AA:430:A:H5''	2.48	0.43
1:AA:528:C:O2'	1:AA:535:A:C8	2.69	0.43
1:AA:579:G:N3	1:AA:580:U:C6	2.86	0.43
1:AA:604:G:C6	1:AA:635:G:C6	3.06	0.43
1:AA:604:G:N2	1:AA:605:U:H1'	2.33	0.43
1:AA:658:G:C6	1:AA:659:U:C4	3.07	0.43
1:AA:685:G:H8	1:AA:685:G:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:721:G:H1'	1:AA:722:A:C6	2.53	0.43
1:AA:723:U:O5'	1:AA:723:U:N1	2.51	0.43
1:AA:770:C:O2'	1:AA:771:G:H5'	2.18	0.43
1:AA:78:G:N1	1:AA:79:G:C5	2.86	0.43
1:AA:838:G:C2	1:AA:849:C:C2	3.06	0.43
1:AA:878:G:O4'	10:AK:3:THR:CG2	2.66	0.43
3:AD:36:A:H3'	3:AD:37:A:H8	1.83	0.43
3:AD:75:C:H5''	3:AD:76:A:O4'	2.18	0.43
4:AE:118:LEU:O	4:AE:119:GLU:C	2.57	0.43
4:AE:118:LEU:HD22	4:AE:119:GLU:N	2.34	0.43
4:AE:16:HIS:CE1	4:AE:213:LEU:CD1	2.97	0.43
5:AF:6:HIS:CD2	5:AF:9:GLY:H	2.36	0.43
5:AF:89:GLU:O	5:AF:90:GLU:C	2.56	0.43
5:AF:91:LEU:O	5:AF:92:ALA:C	2.56	0.43
6:AG:199:ASN:OD1	6:AG:200:GLU:N	2.37	0.43
6:AG:61:LYS:HA	6:AG:203:VAL:HG13	2.00	0.43
6:AG:30:LYS:HA	6:AG:34:GLU:HB3	1.98	0.43
6:AG:63:LYS:HA	6:AG:66:ARG:CD	2.44	0.43
7:AH:11:ILE:CG2	7:AH:31:LEU:HD22	2.48	0.43
8:AI:26:ILE:HG22	8:AI:30:LEU:CD1	2.42	0.43
8:AI:9:VAL:HG22	8:AI:60:PHE:CD2	2.53	0.43
9:AJ:115:ARG:CG	9:AJ:118:VAL:HG21	2.48	0.43
9:AJ:46:ALA:HA	9:AJ:49:ILE:CD1	2.22	0.43
9:AJ:65:ALA:O	9:AJ:69:VAL:CG2	2.63	0.43
10:AK:62:TYR:C	10:AK:63:LEU:O	2.56	0.43
11:AL:116:LYS:O	11:AL:118:LYS:N	2.51	0.43
11:AL:23:ASN:O	11:AL:59:PHE:O	2.36	0.43
13:AN:88:GLY:O	13:AN:90:GLY:N	2.50	0.43
14:AO:110:VAL:HB	14:AO:113:ARG:CG	2.48	0.43
18:AS:42:ARG:O	18:AS:43:LYS:CB	2.66	0.43
19:AT:35:VAL:CG1	19:AT:36:ILE:H	2.30	0.43
20:AU:77:GLY:C	20:AU:78:LEU:HG	2.37	0.43
21:AV:28:LYS:O	21:AV:29:ARG:HB2	2.18	0.43
22:AW:54:LYS:HA	22:AW:57:ARG:CD	2.49	0.43
22:AW:64:ASP:OD1	22:AW:81:LYS:HE3	2.17	0.43
22:AW:84:LEU:HD13	22:AW:84:LEU:C	2.39	0.43
1:AA:186(B):C:H4'	22:AW:89:ARG:NH2	2.33	0.43
23:AX:13:ILE:HG23	23:AX:14:TRP:N	2.32	0.43
43:BV:23:LEU:CD1	51:B4:26:THR:O	2.45	0.43
54:B7:1:MET:H2	54:B7:2:PRO:HD2	1.81	0.43
55:B8:10:ILE:CD1	55:B8:34:GLN:NE2	2.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:8:LYS:O	55:B8:9:ARG:O	2.35	0.43
24:BA:1134:G:C4	24:BA:1136:G:OP2	2.72	0.43
24:BA:1022:G:N7	24:BA:1139:G:O6	2.51	0.43
24:BA:1212:G:H1'	24:BA:1237:A:N6	2.33	0.43
24:BA:1242:A:N3	24:BA:1242:A:H2'	2.32	0.43
24:BA:1343:G:H3'	24:BA:1344:G:H5''	2.01	0.43
24:BA:1366:A:H2'	24:BA:1366:A:N3	2.32	0.43
24:BA:137(A):G:O2'	24:BA:138:G:C8	2.68	0.43
24:BA:1451:C:O2	24:BA:1451:C:C2'	2.64	0.43
24:BA:1472:A:H2'	24:BA:1473:G:O5'	2.17	0.43
24:BA:120:U:H1'	24:BA:149:A:C1'	2.47	0.43
24:BA:1535:U:H3'	24:BA:1536:A:H8	1.82	0.43
24:BA:1537:C:OP2	24:BA:1538:G:OP2	2.36	0.43
24:BA:1606:G:H4'	24:BA:1608:A:C2	2.52	0.43
24:BA:1821:A:N6	24:BA:1822:G:C6	2.85	0.43
24:BA:1836:C:N4	24:BA:1837:C:N4	2.65	0.43
24:BA:1944:U:O2'	24:BA:1955:U:H1'	2.18	0.43
24:BA:2004:G:N7	24:BA:2005:A:C5	2.86	0.43
24:BA:2029:G:N1	24:BA:2033:A:OP2	2.44	0.43
24:BA:2093:G:H1'	32:BK:29:TYR:HD2	1.81	0.43
24:BA:379:G:O2'	24:BA:2232:U:OP1	2.36	0.43
24:BA:2427:C:C2'	24:BA:2428:G:OP2	2.66	0.43
3:AB:52:G:O3'	24:BA:2471:C:OP1	2.36	0.43
24:BA:2611:U:C5'	24:BA:2611:U:H6	2.26	0.43
24:BA:2651:C:H2'	24:BA:2652:C:C6	2.52	0.43
24:BA:2660:A:H2'	24:BA:2661:G:O4'	2.18	0.43
24:BA:2739:U:O2'	24:BA:2740:A:H5'	2.18	0.43
24:BA:2748:A:C4	24:BA:2757:A:N6	2.86	0.43
24:BA:2818:G:C2	24:BA:2819:G:C8	3.06	0.43
24:BA:2857:G:C2	24:BA:2861:G:C2	3.07	0.43
24:BA:285:C:N3	24:BA:357:A:N1	2.66	0.43
24:BA:2880:C:N3	24:BA:2881:C:C5	2.86	0.43
24:BA:332:A:O2'	24:BA:333:G:P	2.76	0.43
24:BA:387:U:O2'	24:BA:388:G:N7	2.48	0.43
24:BA:498:G:P	24:BA:498:G:H8	2.41	0.43
24:BA:531:C:O4'	24:BA:532:A:C2	2.72	0.43
24:BA:617:G:C8	24:BA:617:G:C3'	3.01	0.43
24:BA:630:G:N2	24:BA:634:C:C4	2.86	0.43
24:BA:602:G:N2	24:BA:655:A:C3'	2.80	0.43
24:BA:705:A:C6	24:BA:727:A:H1'	2.54	0.43
24:BA:743:G:H2'	24:BA:744:G:C8	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:774:A:H5''	24:BA:778:G:H4'	2.00	0.43
24:BA:813:U:C2	24:BA:814:C:C6	3.07	0.43
24:BA:815:C:H2'	24:BA:816:C:C6	2.54	0.43
24:BA:865:C:O2'	24:BA:866:A:C8	2.62	0.43
24:BA:908:C:H2'	24:BA:909:A:C5'	2.48	0.43
24:BA:954:G:H1'	24:BA:2274:A:H2	1.83	0.43
25:BB:99:A:N3	25:BB:100:G:C8	2.87	0.43
27:BD:142:VAL:CG1	27:BD:193:VAL:HA	2.21	0.43
24:BA:1971:A:C2	27:BD:240:ALA:N	2.85	0.43
27:BD:6:PHE:N	27:BD:28:GLU:OE1	2.51	0.43
28:BE:136:ARG:CD	28:BE:136:ARG:C	2.87	0.43
28:BE:185:LYS:O	28:BE:185:LYS:CD	2.65	0.43
28:BE:6:GLY:O	28:BE:26:ILE:CG2	2.66	0.43
24:BA:2786:U:O2'	28:BE:64:LYS:HB2	2.18	0.43
28:BE:6:GLY:O	28:BE:26:ILE:HG22	2.17	0.43
29:BF:169:ASN:ND2	29:BF:171:PRO:HG2	2.33	0.43
30:BG:118:ARG:NH1	30:BG:118:ARG:CB	2.78	0.43
30:BG:29:TRP:HB2	30:BG:31:VAL:CG2	2.48	0.43
30:BG:59:GLU:HB3	30:BG:152:LEU:CD1	2.48	0.43
30:BG:59:GLU:O	30:BG:60:LEU:C	2.56	0.43
30:BG:64:THR:HB	30:BG:102:PHE:CE1	2.53	0.43
31:BH:118:PRO:CG	31:BH:121:ILE:HG21	2.48	0.43
31:BH:25:LYS:NZ	31:BH:27:LYS:NZ	2.67	0.43
33:BL:129:GLY:CA	33:BL:132:ARG:NH2	2.81	0.43
33:BL:19:PRO:O	33:BL:20:ALA:C	2.56	0.43
34:BM:126:PRO:C	34:BM:127:ASP:OD2	2.57	0.43
34:BM:19:GLU:HG2	34:BM:20:GLY:N	2.33	0.43
34:BM:70:LYS:N	34:BM:70:LYS:HD3	2.33	0.43
34:BM:88:GLU:N	34:BM:88:GLU:OE2	2.43	0.43
35:BN:105:GLU:O	35:BN:106:LEU:C	2.56	0.43
35:BN:14:THR:O	35:BN:52:VAL:HG11	2.17	0.43
35:BN:31:LYS:C	35:BN:32:TYR:CD2	2.92	0.43
35:BN:40:VAL:HA	35:BN:58:VAL:HG12	2.00	0.43
35:BN:59:LYS:CG	35:BN:84:ALA:O	2.66	0.43
36:BO:114:ILE:CB	36:BO:130:PHE:HA	2.48	0.43
36:BO:78:PRO:HA	36:BO:81:GLN:NE2	2.33	0.43
36:BO:86:LYS:HZ1	36:BO:99:LEU:CD1	2.31	0.43
36:BO:96:THR:O	36:BO:99:LEU:CB	2.66	0.43
37:BP:85:LYS:HE2	37:BP:88:GLY:HA3	1.98	0.43
24:BA:1649:G:N3	38:BQ:107:ASP:HB3	2.33	0.43
38:BQ:13:HIS:HD1	38:BQ:14:SER:N	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:54:LEU:O	38:BQ:55:ALA:C	2.56	0.43
38:BQ:84:ALA:N	38:BQ:85:PRO:CD	2.81	0.43
39:BR:52:SER:OG	39:BR:69:VAL:CG1	2.66	0.43
39:BR:52:SER:OG	39:BR:69:VAL:HG11	2.18	0.43
39:BR:77:ALA:HA	39:BR:80:LEU:CB	2.48	0.43
40:BS:108:ARG:HH11	40:BS:108:ARG:N	2.10	0.43
41:BT:98:LEU:C	41:BT:100:VAL:N	2.70	0.43
41:BT:61:TRP:CB	41:BT:65:ILE:HD11	2.48	0.43
42:BU:35:LEU:O	42:BU:61:VAL:HG22	2.18	0.43
43:BV:65:LEU:O	43:BV:66:GLU:C	2.56	0.43
24:BA:1340:U:C5	44:BW:57:LEU:CG	2.98	0.43
44:BW:71:GLY:C	44:BW:72:LYS:HG3	2.38	0.43
44:BW:85:PRO:HB2	44:BW:87:GLN:NE2	2.33	0.43
45:BX:105:ALA:C	45:BX:107:ASP:H	2.20	0.43
37:BP:137:TYR:HE2	46:BY:124:ILE:CD1	2.22	0.43
46:BY:60:GLU:OE2	46:BY:69:THR:HG22	2.18	0.43
25:BB:76:G:C1'	46:BY:75:ASN:ND2	2.81	0.43
24:BA:855:G:N2	47:BZ:27:GLU:HB3	2.31	0.43
47:BZ:38:VAL:O	47:BZ:59:LEU:CB	2.53	0.43
32:BK:111:PRO:O	32:BK:112:LYS:C	2.56	0.43
32:BK:145:VAL:CG1	32:BK:146:ALA:N	2.81	0.43
32:BK:75:LEU:HD12	32:BK:76:THR:O	2.18	0.43
3:AD:17:C:C5	3:AD:19:G:C8	3.06	0.43
26:BC:19:ILE:O	26:BC:223:ARG:O	2.36	0.43
26:BC:28:LEU:HA	26:BC:31:GLU:OE1	2.18	0.43
33:BL:14:ALA:HB2	33:BL:53:VAL:CG2	2.48	0.43
1:AA:1174:G:H8	1:AA:1174:G:H5'	1.84	0.43
2:A1:3:U:O2	2:A1:4:U:O4	2.36	0.43
19:AT:96:GLN:O	19:AT:96:GLN:OE1	2.36	0.43
2:A1:30:U:H2'	2:A1:31:U:C1'	2.44	0.43
2:A1:38:U:O2'	2:A1:39:U:C5'	2.65	0.43
1:AA:1064:G:O3'	1:AA:1065:U:O4'	2.35	0.43
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.83	0.43
1:AA:1192:C:N4	1:AA:1193:G:C6	2.85	0.43
1:AA:1321:C:H2'	1:AA:1322:C:C5	2.53	0.43
1:AA:1337:G:H5''	1:AA:1338:G:OP1	2.18	0.43
1:AA:133:U:OP1	22:AW:74:LYS:NZ	2.50	0.43
1:AA:1363:A:N3	1:AA:1365:G:O6	2.51	0.43
1:AA:1401:G:C6	1:AA:1402:C:C2	3.07	0.43
1:AA:1436:U:C3'	1:AA:1437:C:H6	2.32	0.43
1:AA:1436:U:C6	1:AA:1436:U:O5'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.48	0.43
1:AA:1399:C:C2	1:AA:1502:A:N6	2.86	0.43
1:AA:1510:U:C2'	1:AA:1511:G:H8	2.22	0.43
1:AA:1533:C:C5	1:AA:1534:A:N7	2.86	0.43
1:AA:257:G:C5	1:AA:258:G:C8	3.06	0.43
1:AA:320:C:O2'	1:AA:321:A:O4'	2.28	0.43
1:AA:332:G:N3	1:AA:333:G:C8	2.87	0.43
1:AA:427:U:N1	1:AA:428:G:N7	2.66	0.43
1:AA:600:C:C2	1:AA:601:C:C6	3.06	0.43
1:AA:629:G:C4	1:AA:630:G:C8	3.06	0.43
1:AA:606:G:N2	1:AA:631:G:H2'	2.33	0.43
1:AA:64:G:C4'	1:AA:65:U:H5''	2.29	0.43
1:AA:761:G:C5	1:AA:762:C:C5	3.06	0.43
1:AA:826:C:H2'	1:AA:827:U:H6	1.82	0.43
1:AA:874:G:H2'	1:AA:875:C:C5'	2.47	0.43
1:AA:86:U:C2'	1:AA:87:A:H5'	2.47	0.43
1:AA:22:G:N9	1:AA:914:A:N6	2.66	0.43
1:AA:953:G:H4'	15:AP:124:PRO:O	2.18	0.43
3:AC:57:G:C4'	30:BG:82:LEU:CD2	2.96	0.43
3:AC:58:A:O2'	3:AC:59:U:O5'	2.36	0.43
3:AC:66:U:C3'	3:AC:67:C:H6	2.30	0.43
4:AE:74:LYS:NZ	4:AE:205:ASP:O	2.48	0.43
4:AE:222:ILE:HD13	4:AE:226:ARG:NH2	2.25	0.43
4:AE:77:ALA:O	4:AE:80:ILE:HG22	2.19	0.43
4:AE:84:GLU:HG2	4:AE:234:PRO:CG	2.47	0.43
4:AE:92:TYR:HE2	4:AE:151:GLY:C	2.22	0.43
5:AF:117:ALA:O	5:AF:121:ALA:HB2	2.19	0.43
6:AG:143:GLY:HA2	6:AG:185:PHE:CD1	2.54	0.43
6:AG:153:ARG:O	6:AG:154:ASN:CB	2.66	0.43
6:AG:155:LEU:O	6:AG:158:ILE:HB	2.18	0.43
6:AG:29:PRO:O	6:AG:30:LYS:HB2	2.18	0.43
7:AH:15:ARG:CG	7:AH:15:ARG:HH11	2.31	0.43
7:AH:25:ARG:HD3	7:AH:25:ARG:N	2.33	0.43
7:AH:91:LEU:CG	7:AH:92:LYS:N	2.82	0.43
8:AI:45:LEU:HD23	8:AI:59:TYR:HA	2.00	0.43
8:AI:8:ILE:HG23	8:AI:89:MET:H	1.82	0.43
11:AL:45:ALA:O	11:AL:78:LYS:CG	2.66	0.43
12:AM:79:ARG:HH11	12:AM:79:ARG:HA	1.84	0.43
13:AN:13:GLN:HA	13:AN:76:GLY:CA	2.48	0.43
13:AN:32:ILE:O	13:AN:39:PRO:CB	2.66	0.43
13:AN:50:TYR:HD1	13:AN:55:LYS:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:69:ALA:O	13:AN:72:ALA:CB	2.65	0.43
14:AO:100:ILE:O	14:AO:101:VAL:HG22	2.19	0.43
14:AO:59:ARG:HE	14:AO:65:GLU:HG2	1.84	0.43
12:AM:65:LEU:CD1	16:AQ:36:PHE:CZ	3.02	0.43
18:AS:53:VAL:CG2	18:AS:54:GLU:N	2.81	0.43
22:AW:13:LEU:HD13	22:AW:17:ARG:HH22	1.83	0.43
22:AW:20:LEU:O	22:AW:24:LEU:HG	2.17	0.43
49:B2:32:GLN:CD	49:B2:32:GLN:N	2.72	0.43
50:B3:59:PHE:O	50:B3:62:ARG:N	2.51	0.43
50:B3:65:ASP:CA	50:B3:68:ARG:CZ	2.95	0.43
51:B4:56:LYS:C	51:B4:57:VAL:HG13	2.38	0.43
53:B6:46:VAL:O	53:B6:47:ARG:C	2.56	0.43
55:B8:19:ARG:HD3	55:B8:22:ARG:CB	2.48	0.43
55:B8:7:VAL:CG1	55:B8:34:GLN:OE1	2.63	0.43
24:BA:1025:G:C8	24:BA:1134:G:O4'	2.72	0.43
24:BA:1031:G:H5'	24:BA:1032:A:OP2	2.18	0.43
24:BA:1129:A:C5	24:BA:2570:G:H1'	2.53	0.43
24:BA:1006:C:C2	24:BA:1137:G:N2	2.86	0.43
24:BA:1137:G:H2'	24:BA:1138:G:O5'	2.17	0.43
24:BA:126:A:OP1	53:B6:18:PHE:N	2.50	0.43
24:BA:1342:A:C5	24:BA:1601:G:O6	2.71	0.43
24:BA:1381:G:O6	24:BA:1382:G:N1	2.51	0.43
24:BA:138:G:H2'	24:BA:138:G:N3	2.33	0.43
24:BA:141:A:C2	24:BA:1596:A:C2'	3.01	0.43
24:BA:1444(A):A:OP2	24:BA:1444(A):A:C8	2.71	0.43
24:BA:146:G:C5	24:BA:147:U:C6	3.06	0.43
24:BA:1529:A:H8	24:BA:1530:G:C4	2.36	0.43
24:BA:1544:C:O2'	24:BA:1545:A:H4'	2.18	0.43
24:BA:1272:A:H3'	24:BA:1646:C:N4	2.33	0.43
24:BA:1661:G:C5	24:BA:1662:C:C5	3.05	0.43
24:BA:1663:C:H5''	24:BA:1664:A:OP1	2.19	0.43
24:BA:1728:G:N2	24:BA:1730:U:O2	2.51	0.43
24:BA:1830:C:C2	24:BA:1831:G:N7	2.87	0.43
24:BA:1988:C:H2'	24:BA:1989:G:C5'	2.48	0.43
24:BA:2033:A:H2'	24:BA:2034:U:O5'	2.18	0.43
24:BA:2264:C:C2'	24:BA:2265:U:O5'	2.67	0.43
24:BA:2307:G:O2'	24:BA:2311:A:N6	2.50	0.43
24:BA:2447:G:HO2'	24:BA:2448:A:P	2.36	0.43
24:BA:2464:C:H2'	24:BA:2465:C:H6	1.82	0.43
24:BA:2482:G:C4	24:BA:2483:C:C6	3.06	0.43
24:BA:2558:C:O2	24:BA:2558:C:C2'	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2507:C:H4'	24:BA:2573:C:N4	2.32	0.43
24:BA:262:A:O2'	24:BA:263:C:C5'	2.66	0.43
24:BA:2644:G:H1	24:BA:2645:G:H21	1.64	0.43
24:BA:2789:C:HO2'	24:BA:2790:A:P	2.41	0.43
24:BA:2816:C:C2'	24:BA:2817:G:H5'	2.48	0.43
24:BA:284:U:O4'	24:BA:284:U:OP2	2.37	0.43
24:BA:2898:U:N3	24:BA:2899:G:C5	2.87	0.43
24:BA:317:G:O2'	24:BA:318:C:H5'	2.18	0.43
24:BA:333:G:C6	24:BA:334:C:C5	3.06	0.43
24:BA:358:U:H2'	24:BA:358:U:O2	2.19	0.43
24:BA:403:U:C2'	24:BA:403:U:O2	2.65	0.43
24:BA:49:A:N7	24:BA:177:G:C6	2.86	0.43
24:BA:596:G:N1	24:BA:597:U:C2	2.86	0.43
24:BA:638:G:C5	24:BA:639:U:C2	3.06	0.43
24:BA:67:U:C4'	24:BA:67:U:C6	3.01	0.43
24:BA:705:A:C2	24:BA:706:A:N9	2.85	0.43
24:BA:713:G:N2	24:BA:714:U:C6	2.86	0.43
24:BA:776:G:N9	24:BA:793:A:C2	2.86	0.43
24:BA:819:A:C2'	24:BA:820:A:H8	2.30	0.43
25:BB:100:G:C2'	25:BB:101:A:C8	2.88	0.43
27:BD:90:ALA:HB3	27:BD:159:ALA:HA	2.00	0.43
24:BA:1814:G:OP2	27:BD:43:ARG:HD2	2.18	0.43
24:BA:2512:C:C5'	28:BE:120:TRP:CH2	2.92	0.43
24:BA:1996:C:H2'	28:BE:123:ALA:HB3	1.97	0.43
28:BE:148:GLY:C	28:BE:149:ARG:HG3	2.37	0.43
28:BE:149:ARG:HB2	28:BE:150:VAL:H	1.48	0.43
28:BE:176:ILE:CG2	28:BE:181:LEU:CB	2.95	0.43
28:BE:13:ARG:CD	28:BE:20:ALA:O	2.65	0.43
28:BE:49:LEU:CB	28:BE:76:ARG:O	2.67	0.43
29:BF:39:TRP:CE2	29:BF:106:ARG:NH2	2.87	0.43
29:BF:11:VAL:HB	29:BF:17:ARG:NH1	2.33	0.43
29:BF:40:GLN:O	29:BF:41:LEU:C	2.55	0.43
30:BG:8:LYS:HG3	30:BG:100:TRP:O	2.17	0.43
30:BG:111:LEU:CD2	30:BG:178:PHE:HD2	2.31	0.43
30:BG:39:ILE:CG1	30:BG:157:ILE:CD1	2.93	0.43
30:BG:37:VAL:HG13	30:BG:158:ALA:O	2.17	0.43
30:BG:44:GLY:CA	30:BG:88:ILE:HG21	2.48	0.43
30:BG:98:ARG:O	30:BG:101:ILE:HG22	2.17	0.43
31:BH:25:LYS:CE	31:BH:27:LYS:HZ2	2.31	0.43
31:BH:99:VAL:O	31:BH:99:VAL:HG12	2.18	0.43
32:BK:21:VAL:C	32:BK:26:ALA:HB2	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:23:ARG:HH12	35:BN:30:ALA:HB2	1.83	0.43
35:BN:40:VAL:HG13	35:BN:40:VAL:O	2.17	0.43
1:AA:1423:G:C5'	35:BN:49:ARG:HH21	2.29	0.43
35:BN:59:LYS:HA	35:BN:86:ILE:CG1	2.48	0.43
36:BO:46:LYS:HZ1	36:BO:50:ARG:NH1	2.14	0.43
36:BO:49:ARG:CD	54:B7:52:LYS:HE3	2.48	0.43
36:BO:55:ARG:NH2	36:BO:55:ARG:HA	2.33	0.43
37:BP:137:TYR:O	37:BP:138:ASP:OD2	2.33	0.43
38:BQ:83:ILE:O	38:BQ:86:ARG:HB2	2.17	0.43
39:BR:13:ARG:NH2	39:BR:92:TYR:N	2.66	0.43
39:BR:16:ASN:O	39:BR:17:ARG:C	2.57	0.43
40:BS:21:GLU:HG3	40:BS:88:ILE:CD1	2.43	0.43
40:BS:37:GLY:HA3	40:BS:42:ILE:O	2.18	0.43
40:BS:54:ARG:HD3	40:BS:55:ASN:HD21	1.76	0.43
41:BT:33:ARG:O	41:BT:36:ARG:N	2.51	0.43
24:BA:535:C:O2'	41:BT:53:ARG:CG	2.66	0.43
41:BT:59:ARG:HA	41:BT:62:ILE:HB	2.00	0.43
41:BT:70:ARG:CB	41:BT:70:ARG:NH1	2.80	0.43
42:BU:23:GLU:O	42:BU:23:GLU:HG2	2.17	0.43
43:BV:49:LYS:O	43:BV:50:VAL:C	2.56	0.43
43:BV:46:PHE:O	43:BV:50:VAL:HG23	2.17	0.43
44:BW:12:VAL:N	44:BW:28:PHE:HA	2.32	0.43
45:BX:35:TYR:O	45:BX:64:GLU:CA	2.66	0.43
46:BY:103:ARG:O	46:BY:138:GLU:HB3	2.17	0.43
46:BY:122:ARG:CB	46:BY:171:ILE:HA	2.48	0.43
46:BY:179:ASP:O	46:BY:180:VAL:CG2	2.50	0.43
46:BY:18:LEU:CD2	46:BY:23:LYS:HD3	2.47	0.43
46:BY:69:THR:HB	46:BY:90:VAL:HG13	1.99	0.43
47:BZ:31:VAL:CG1	47:BZ:67:VAL:CG2	2.94	0.43
47:BZ:77:ARG:C	47:BZ:78:TYR:CD1	2.91	0.43
26:BC:45:ALA:HB2	26:BC:212:VAL:HA	2.00	0.43
1:AA:1166:G:N2	1:AA:1169:A:O5'	2.51	0.43
3:AD:40:C:H5'	3:AD:41:C:OP2	2.18	0.43
24:BA:2180:U:H2'	24:BA:2181:G:C8	2.52	0.43
24:BA:1040:C:OP2	24:BA:1040:C:C5	2.71	0.43
1:AA:998(A):C:O2	1:AA:998(A):C:C2'	2.65	0.43
2:A1:39:U:C6	2:A1:39:U:H3'	2.53	0.43
1:AA:1003:G:H21	1:AA:1005:A:H5'	1.82	0.43
1:AA:1108:G:C6	1:AA:1109:C:N4	2.86	0.43
1:AA:110:C:H2'	1:AA:111:G:C8	2.53	0.43
1:AA:1157:A:N6	1:AA:1180:A:C5	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1287:A:H1'	1:AA:1353:G:O2'	2.18	0.43
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.18	0.43
1:AA:1268:A:H2	1:AA:1327:C:H1'	1.83	0.43
1:AA:1441:G:N2	1:AA:1459:C:H5	2.16	0.43
1:AA:1484:C:H2'	1:AA:1485:U:H5'	1.99	0.43
1:AA:1499:A:N6	1:AA:1500:A:N6	2.66	0.43
1:AA:15:G:H2'	1:AA:16:A:C8	2.53	0.43
1:AA:181:G:H22	1:AA:223:U:H4'	1.83	0.43
1:AA:36:C:OP1	14:AO:123:LYS:HG2	2.18	0.43
1:AA:377:G:P	18:AS:5:ARG:HD3	2.58	0.43
1:AA:450:G:C8	1:AA:481:G:C6	3.06	0.43
1:AA:525:C:O5'	1:AA:525:C:H6	2.02	0.43
1:AA:531:U:P	1:AA:531:U:H3'	2.59	0.43
1:AA:609:A:H2'	1:AA:610:G:H8	1.84	0.43
1:AA:648:A:O2'	1:AA:649:G:H5'	2.19	0.43
1:AA:667:G:C5'	17:AR:51:HIS:CE1	3.02	0.43
1:AA:830:G:C2	1:AA:857:C:C2	3.07	0.43
1:AA:892:A:H2'	1:AA:893:C:C6	2.53	0.43
1:AA:951:G:C5	1:AA:1231:G:C6	3.07	0.43
3:AC:28:G:C2	3:AC:43:C:O2	2.71	0.43
3:AC:58:A:H2'	3:AC:61:C:C4	2.53	0.43
3:AC:50:U:C4	3:AC:65:G:N1	2.86	0.43
3:AD:32:U:O2'	9:AJ:77:SER:CB	2.65	0.43
4:AE:84:GLU:CD	4:AE:233:SER:HB3	2.38	0.43
5:AF:27:LYS:HB2	5:AF:27:LYS:HE3	1.79	0.43
6:AG:134:ASP:OD2	6:AG:134:ASP:O	2.36	0.43
7:AH:36:ASP:OD2	7:AH:40:ARG:HB3	2.18	0.43
7:AH:76:ILE:CG2	7:AH:77:PRO:HD2	2.49	0.43
8:AI:34:GLY:C	8:AI:68:PRO:HD3	2.38	0.43
8:AI:34:GLY:O	8:AI:68:PRO:HD3	2.19	0.43
9:AJ:69:VAL:HG11	9:AJ:104:LEU:HD21	1.94	0.43
10:AK:104:ARG:HB2	10:AK:108:GLY:H	1.83	0.43
10:AK:104:ARG:HD3	10:AK:107:LEU:HD11	2.01	0.43
10:AK:134:ILE:HB	10:AK:135:CYS:H	1.47	0.43
1:AA:755:G:H21	10:AK:1:MET:HE1	1.83	0.43
5:AF:23:TYR:CD1	12:AM:11:PHE:HB2	2.54	0.43
15:AP:15:VAL:HG11	15:AP:39:ILE:HD11	1.98	0.43
16:AQ:46:GLU:O	16:AQ:49:HIS:CB	2.64	0.43
18:AS:40:ASP:OD1	18:AS:40:ASP:O	2.36	0.43
20:AU:31:LEU:CD2	20:AU:65:ILE:HG13	2.48	0.43
21:AV:16:LEU:O	21:AV:17:GLU:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:17:GLU:OE1	21:AV:18:LYS:N	2.51	0.43
22:AW:57:ARG:HH21	22:AW:100:ILE:CD1	2.30	0.43
22:AW:53:LEU:HD12	22:AW:100:ILE:HG13	2.00	0.43
50:B3:23:GLU:HB2	50:B3:24:THR:H	1.51	0.43
50:B3:69:LYS:O	50:B3:70:GLY:C	2.56	0.43
51:B4:11:THR:CG2	51:B4:15:ARG:HB3	2.42	0.43
52:B5:19:ARG:HH22	52:B5:41:PRO:CD	2.32	0.43
52:B5:17:LYS:HZ3	52:B5:50:ARG:CA	2.31	0.43
36:BO:56:SER:OG	54:B7:27:THR:HG21	2.18	0.43
54:B7:33:ASN:O	54:B7:34:TRP:CB	2.66	0.43
24:BA:1093:G:N2	24:BA:1098:A:N6	2.66	0.43
24:BA:1178:C:C2	24:BA:1179:C:C4	3.05	0.43
24:BA:1344:G:H4'	24:BA:1384:A:C2	2.49	0.43
24:BA:1348:G:O6	24:BA:1599:C:C4	2.72	0.43
24:BA:1449:A:C4	24:BA:1529:A:C2	3.06	0.43
24:BA:1662:C:C2	24:BA:1663:C:C5	3.07	0.43
24:BA:1669:A:O3'	24:BA:2549:G:H5'	2.17	0.43
24:BA:1678:G:O2'	24:BA:1679:U:H5'	2.18	0.43
24:BA:1731:G:O2'	24:BA:1732:A:C5'	2.66	0.43
24:BA:179:G:C5	24:BA:180:G:C5	3.06	0.43
24:BA:1826:G:N2	24:BA:1970:A:H2	2.15	0.43
24:BA:1909:C:N3	24:BA:1922:G:C2	2.87	0.43
24:BA:1954:G:N3	24:BA:2551:C:C5'	2.79	0.43
24:BA:1827:C:C5'	24:BA:1971:A:H4'	2.48	0.43
24:BA:2015:A:C8	24:BA:2016:U:C5	3.07	0.43
24:BA:204:A:H4'	24:BA:205:G:O5'	2.18	0.43
24:BA:2216:G:C2'	24:BA:2217:G:H5'	2.49	0.43
24:BA:2284:C:H5''	52:B5:9:LEU:HG	1.99	0.43
24:BA:2358:G:C2'	24:BA:2358:G:N3	2.81	0.43
24:BA:2360:A:OP2	24:BA:2360:A:H8	1.99	0.43
24:BA:2514:U:C4	24:BA:2515:C:N4	2.82	0.43
24:BA:2589:A:N3	24:BA:2590:A:C8	2.86	0.43
24:BA:2616:C:C2	24:BA:2617:C:C5	3.06	0.43
24:BA:2675:A:H2'	24:BA:2676:C:H6	1.83	0.43
24:BA:2719:G:OP1	40:BS:101:PHE:CE1	2.71	0.43
24:BA:2842:G:N2	24:BA:2843:G:H1'	2.34	0.43
24:BA:28:A:N3	24:BA:29:U:H4'	2.34	0.43
24:BA:393:C:C2	24:BA:394:A:C8	3.06	0.43
24:BA:479:A:O2'	24:BA:480:A:H5'	2.17	0.43
24:BA:503:A:O2'	24:BA:506:G:OP2	2.37	0.43
24:BA:622:G:O2'	24:BA:623:G:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:641:C:C2'	24:BA:642:G:C5'	2.89	0.43
24:BA:662:G:OP1	36:BO:19:VAL:HG11	2.17	0.43
24:BA:73:A:H2'	24:BA:74:A:OP2	2.19	0.43
24:BA:823:G:C4	24:BA:835:A:C2	3.06	0.43
24:BA:882:G:H2'	24:BA:883:G:H8	1.83	0.43
24:BA:998:C:O5'	24:BA:998:C:H6	2.00	0.43
25:BB:73:A:C2	25:BB:74:U:N1	2.87	0.43
27:BD:142:VAL:CB	27:BD:192:THR:O	2.66	0.43
27:BD:172:TYR:HA	27:BD:186:HIS:HA	2.00	0.43
27:BD:61:LEU:O	27:BD:62:TYR:CG	2.72	0.43
27:BD:80:ALA:HB1	27:BD:96:HIS:CE1	2.52	0.43
28:BE:179:GLU:HB2	28:BE:181:LEU:CG	2.48	0.43
29:BF:128:ALA:O	29:BF:129:PHE:HB2	2.18	0.43
29:BF:138:GLU:H	29:BF:138:GLU:HG2	1.43	0.43
29:BF:182:ASN:ND2	29:BF:185:ASP:CG	2.67	0.43
29:BF:185:ASP:HA	29:BF:188:ARG:HG2	1.99	0.43
29:BF:34:TRP:HB3	29:BF:38:ARG:NH1	2.31	0.43
29:BF:52:LYS:HZ2	29:BF:88:VAL:HG21	1.83	0.43
30:BG:104:GLU:O	30:BG:105:LYS:C	2.56	0.43
30:BG:55:LYS:CD	30:BG:147:ASP:O	2.54	0.43
30:BG:15:VAL:HG21	30:BG:176:LEU:HD23	1.99	0.43
30:BG:34:LEU:CD2	30:BG:172:LEU:HD11	2.48	0.43
31:BH:125:VAL:HG12	31:BH:125:VAL:O	2.18	0.43
31:BH:94:TYR:HH	31:BH:128:PRO:HG2	1.83	0.43
31:BH:23:ARG:HH21	31:BH:35:VAL:C	2.22	0.43
31:BH:7:LEU:CB	31:BH:65:HIS:NE2	2.80	0.43
31:BH:35:VAL:HG21	31:BH:75:ALA:HB2	2.00	0.43
33:BL:106:GLU:CA	33:BL:109:LYS:HE3	2.48	0.43
33:BL:27:LEU:CD1	33:BL:57:ILE:CD1	2.87	0.43
35:BN:101:PRO:CD	35:BN:119:PRO:O	2.63	0.43
35:BN:22:ILE:HB	35:BN:23:ARG:H	1.62	0.43
24:BA:2674:G:H4'	35:BN:26:LYS:NZ	2.33	0.43
35:BN:64:ARG:HH11	35:BN:67:LYS:HE2	1.83	0.43
36:BO:35:HIS:O	36:BO:36:LYS:CD	2.65	0.43
37:BP:102:VAL:HG13	37:BP:104:PHE:CZ	2.54	0.43
37:BP:36:ALA:CA	37:BP:129:THR:HG22	2.48	0.43
37:BP:6:ARG:HG2	37:BP:70:PRO:CG	2.49	0.43
38:BQ:47:PHE:O	38:BQ:49:ASP:N	2.51	0.43
38:BQ:49:ASP:O	38:BQ:50:HIS:C	2.56	0.43
39:BR:26:LEU:HD12	39:BR:101:LEU:HD11	2.00	0.43
39:BR:43:GLU:O	39:BR:44:LYS:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:57:LYS:HD3	39:BR:58:LEU:N	2.34	0.43
39:BR:26:LEU:H	39:BR:88:ASP:CB	2.31	0.43
40:BS:110:ILE:O	40:BS:111:ARG:C	2.57	0.43
40:BS:92:GLY:HA2	40:BS:93:ARG:NE	2.33	0.43
41:BT:47:TYR:O	41:BT:48:ALA:C	2.56	0.43
42:BU:28:GLU:N	42:BU:29:PRO:HD2	2.32	0.43
43:BV:5:ALA:CB	43:BV:105:VAL:HG13	2.49	0.43
24:BA:1312:U:O3'	44:BW:63:LYS:CD	2.67	0.43
46:BY:122:ARG:O	46:BY:124:ILE:N	2.51	0.43
46:BY:138:GLU:O	46:BY:139:VAL:CG2	2.66	0.43
46:BY:42:VAL:C	46:BY:46:LYS:NZ	2.71	0.43
46:BY:76:LEU:CD2	46:BY:83:PRO:HB3	2.47	0.43
47:BZ:44:ARG:CD	47:BZ:45:PHE:CE2	3.01	0.43
3:AD:15:G:O5'	3:AD:15:G:H8	2.01	0.43
24:BA:2129:C:O2'	24:BA:2130:U:O4'	2.25	0.43
24:BA:2133:G:O6	24:BA:2157:G:N9	2.51	0.43
24:BA:1887:C:O2'	24:BA:1888:G:H5'	2.19	0.43
24:BA:55:G:C2	24:BA:56:A:C8	3.06	0.43
24:BA:2106:G:H2'	24:BA:2107:C:H6	1.83	0.43
1:AA:513:C:H2'	1:AA:514:C:H6	1.83	0.43
2:A1:10:U:O5'	2:A1:10:U:H6	2.01	0.43
1:AA:1498:U:C2	2:A1:41:U:OP1	2.72	0.43
1:AA:102:G:C6	1:AA:103:C:C4	3.06	0.43
1:AA:102:G:C6	1:AA:103:C:C5	3.07	0.43
1:AA:1159:U:C5	1:AA:1181:G:N7	2.86	0.43
1:AA:1194:U:H5'	7:AH:22:GLY:O	2.19	0.43
1:AA:1312:G:C2'	1:AA:1313:U:H5'	2.48	0.43
1:AA:1369:C:OP2	11:AL:111:ARG:HA	2.18	0.43
1:AA:1375:A:C2	1:AA:1376:U:O2	2.71	0.43
1:AA:1412:C:C2	1:AA:1413:A:N7	2.87	0.43
1:AA:222:U:O2'	1:AA:223:U:H5'	2.18	0.43
1:AA:237:C:H5''	19:AT:25:ARG:NH2	2.31	0.43
1:AA:244:U:C6	1:AA:894:G:C2	3.07	0.43
1:AA:302:G:O6	1:AA:303:A:C6	2.72	0.43
1:AA:318:G:O2'	1:AA:1469:G:OP1	2.36	0.43
1:AA:113:G:H4'	1:AA:354:G:H5''	1.99	0.43
1:AA:401:C:OP2	6:AG:73:ARG:NH2	2.52	0.43
1:AA:450:G:N7	1:AA:481:G:C5	2.86	0.43
1:AA:486:U:C2	1:AA:487:A:C8	3.06	0.43
1:AA:498:A:H61	1:AA:547:A:C5'	2.31	0.43
1:AA:533:A:H3'	1:AA:534:U:C5'	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:548:G:O2'	1:AA:549:C:H5'	2.18	0.43
1:AA:658:G:C2	1:AA:659:U:C2	3.07	0.43
1:AA:696:A:C4	1:AA:697:U:O4'	2.72	0.43
1:AA:887:G:O2'	1:AA:888:G:H5'	2.19	0.43
1:AA:924:C:H2'	1:AA:925:G:H8	1.83	0.43
3:AB:75:C:C2'	3:AB:75:C:O2	2.67	0.43
3:AC:57:G:C1'	30:BG:82:LEU:CD1	2.94	0.43
4:AE:16:HIS:O	4:AE:18:GLY:N	2.51	0.43
4:AE:193:ASP:O	4:AE:194:PRO:O	2.36	0.43
4:AE:80:ILE:HG22	4:AE:81:VAL:N	2.33	0.43
6:AG:101:LEU:O	6:AG:102:ASP:C	2.56	0.43
1:AA:407:G:O2'	6:AG:116:GLN:HG2	2.17	0.43
6:AG:112:VAL:N	6:AG:116:GLN:OE1	2.42	0.43
6:AG:13:ARG:NH1	6:AG:36:ARG:HD3	2.34	0.43
7:AH:37:ARG:NH1	7:AH:112:LEU:HA	2.33	0.43
8:AI:14:LEU:HD21	8:AI:18:GLN:HG2	2.00	0.43
8:AI:91:VAL:HG12	8:AI:92:LYS:O	2.18	0.43
8:AI:94:GLN:C	8:AI:95:GLU:HG3	2.39	0.43
9:AJ:13:GLN:O	9:AJ:14:PRO:O	2.35	0.43
9:AJ:15:ASP:HB3	9:AJ:20:ASP:H	1.84	0.43
10:AK:19:VAL:HG12	10:AK:19:VAL:O	2.18	0.43
10:AK:70:GLN:CA	10:AK:70:GLN:NE2	2.76	0.43
11:AL:100:GLY:C	11:AL:101:PHE:CG	2.91	0.43
11:AL:10:ARG:NH2	11:AL:75:ASP:CG	2.72	0.43
13:AN:50:TYR:CD1	13:AN:55:LYS:HA	2.54	0.43
15:AP:14:ARG:CG	15:AP:44:ARG:NH1	2.77	0.43
15:AP:6:GLY:O	15:AP:8:GLU:N	2.52	0.43
17:AR:87:ILE:CG2	17:AR:88:ARG:N	2.81	0.43
18:AS:19:ILE:CG2	18:AS:36:ILE:O	2.67	0.43
21:AV:27:GLU:O	21:AV:28:LYS:HB2	2.17	0.43
21:AV:32:LYS:HB2	21:AV:57:HIS:CE1	2.54	0.43
21:AV:30:LEU:HB2	21:AV:48:THR:HG22	2.00	0.43
22:AW:11:SER:CA	22:AW:13:LEU:HD11	2.35	0.43
22:AW:45:GLN:HE21	22:AW:91:LEU:CD1	2.17	0.43
1:AA:186(B):C:H4'	22:AW:89:ARG:HH22	1.83	0.43
49:B2:31:LEU:HA	49:B2:31:LEU:HD22	1.71	0.43
24:BA:400:G:O6	50:B3:63:TYR:CE2	2.68	0.43
51:B4:36:CYS:H	51:B4:49:CYS:HB3	1.84	0.43
52:B5:16:CYS:O	52:B5:17:LYS:C	2.56	0.43
53:B6:10:ARG:O	53:B6:11:LYS:C	2.57	0.43
53:B6:12:ARG:O	53:B6:13:ALA:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:21:ARG:CZ	53:B6:21:ARG:CB	2.97	0.43
24:BA:179:G:C5'	53:B6:32:LYS:NZ	2.69	0.43
53:B6:35:ARG:CB	53:B6:35:ARG:NH1	2.81	0.43
36:BO:45:LEU:CD1	54:B7:3:LYS:HZ1	2.31	0.43
54:B7:6:THR:CG2	54:B7:6:THR:O	2.63	0.43
55:B8:13:LYS:CB	55:B8:13:LYS:NZ	2.82	0.43
24:BA:1013:C:C2	24:BA:1014:U:C5	3.06	0.43
24:BA:1030:G:C5	24:BA:1125:G:N2	2.86	0.43
24:BA:1035:U:H2'	24:BA:1036:G:C8	2.54	0.43
24:BA:1059:G:H5'	33:BL:116:ASN:ND2	2.32	0.43
24:BA:1163:G:N3	24:BA:1164:G:C8	2.86	0.43
24:BA:1183:G:C3'	24:BA:1183:G:P	3.06	0.43
24:BA:819:A:OP2	24:BA:1187:G:N2	2.51	0.43
24:BA:1302:A:H3'	24:BA:1303:G:H5'	2.00	0.43
24:BA:1434:A:H61	24:BA:1558:A:N6	2.13	0.43
24:BA:1459:G:O6	24:BA:1461:G:C5	2.72	0.43
24:BA:1654:A:C6	24:BA:1655:A:N7	2.87	0.43
24:BA:1674:G:H21	24:BA:1676:A:H61	1.67	0.43
24:BA:1697:G:O6	24:BA:1698:A:C6	2.72	0.43
24:BA:1710:C:C2	24:BA:1711:C:C5	3.07	0.43
24:BA:1743:G:H2'	24:BA:1746:G:O4'	2.18	0.43
24:BA:176:G:C3'	24:BA:177:G:H8	2.30	0.43
24:BA:1817:G:H2'	24:BA:1818:U:C5'	2.49	0.43
24:BA:2030:A:HO2'	24:BA:2031:A:P	2.41	0.43
24:BA:805:G:C6	24:BA:2068:U:OP1	2.72	0.43
24:BA:2087:G:H5''	24:BA:2087:G:H8	1.83	0.43
24:BA:227:A:N6	24:BA:2407:G:H8	2.13	0.43
24:BA:2318:G:C8	24:BA:2318:G:P	3.10	0.43
24:BA:2358:G:C6	24:BA:2359:C:C5	3.07	0.43
24:BA:2358:G:C8	24:BA:2358:G:OP1	2.71	0.43
24:BA:2069:G:C2	24:BA:2443:C:C4	3.07	0.43
24:BA:2474:C:H6	24:BA:2474:C:O5'	2.01	0.43
24:BA:247:G:H22	54:B7:8:LYS:CG	2.31	0.43
24:BA:2485:G:H4'	37:BP:125:LEU:O	2.19	0.43
24:BA:2521:C:C2	24:BA:2522:U:H6	2.31	0.43
24:BA:2694:G:H8	24:BA:2694:G:O5'	2.01	0.43
24:BA:271:G:H2'	24:BA:272:G:H8	1.83	0.43
24:BA:2729:G:C6	24:BA:2730:C:C5	3.06	0.43
24:BA:2737:G:C2	24:BA:2738:A:N7	2.86	0.43
24:BA:2748:A:O2'	31:BH:66:GLY:CA	2.62	0.43
24:BA:2782:G:H2'	24:BA:2783:G:C8	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:413:C:H42	24:BA:2410:G:H1	1.66	0.43
24:BA:410:G:C6	24:BA:418:G:C2	3.07	0.43
24:BA:427:U:O2'	24:BA:428:A:O4'	2.35	0.43
24:BA:447:A:C6	24:BA:473:G:H1'	2.54	0.43
24:BA:479:A:C2'	24:BA:480:A:OP2	2.66	0.43
24:BA:503:A:C2	24:BA:506:G:C2	3.06	0.43
24:BA:60:G:C8	24:BA:63:U:C5	3.06	0.43
24:BA:631:A:C8	24:BA:631:A:H3'	2.53	0.43
24:BA:687:C:H4'	53:B6:4:THR:HG22	2.01	0.43
24:BA:73:A:C2'	24:BA:74:A:OP2	2.67	0.43
24:BA:751:A:H62	24:BA:789:A:H62	1.66	0.43
24:BA:783:A:O3'	24:BA:2589:A:P	2.76	0.43
24:BA:842:G:C6	24:BA:843:G:C5	3.06	0.43
24:BA:866:A:C2	24:BA:867:C:C6	3.06	0.43
24:BA:869:G:C2'	24:BA:870:A:C5'	2.80	0.43
24:BA:872:A:O2'	37:BP:66:ILE:CD1	2.66	0.43
24:BA:985:C:C6	24:BA:985:C:O5'	2.72	0.43
25:BB:21:G:C6	25:BB:22:U:C2	3.07	0.43
25:BB:44:G:H5''	25:BB:45:A:OP1	2.19	0.43
25:BB:74:U:C3'	25:BB:75:G:O4'	2.65	0.43
27:BD:126:GLN:NE2	27:BD:129:ASN:OD1	2.38	0.43
24:BA:1565:C:OP1	27:BD:24:ILE:HG23	2.18	0.43
24:BA:1569:A:H4'	27:BD:39:LYS:HE2	2.00	0.43
27:BD:63:ARG:CG	27:BD:65:ILE:HD11	2.48	0.43
27:BD:67:PHE:O	27:BD:153:ALA:HB2	2.18	0.43
27:BD:63:ARG:HB2	27:BD:87:ASN:OD1	2.19	0.43
28:BE:111:ARG:HB3	28:BE:112:GLY:H	1.37	0.43
28:BE:131:ALA:C	28:BE:133:LYS:H	2.22	0.43
28:BE:27:LEU:O	28:BE:28:ALA:C	2.56	0.43
28:BE:32:PRO:HG3	28:BE:88:GLY:CA	2.47	0.43
28:BE:66:HIS:ND1	28:BE:67:PHE:CA	2.81	0.43
28:BE:71:GLY:O	28:BE:72:VAL:CG1	2.67	0.43
24:BA:2635:C:H5''	28:BE:78:LEU:CD1	2.49	0.43
24:BA:451:C:OP1	29:BF:50:SER:OG	2.36	0.43
30:BG:125:PHE:CB	30:BG:131:TYR:O	2.60	0.43
30:BG:131:TYR:CE1	30:BG:133:LEU:O	2.65	0.43
30:BG:163:ALA:O	30:BG:169:ALA:HB2	2.19	0.43
30:BG:47:LYS:HB3	30:BG:72:ARG:HB3	2.00	0.43
31:BH:143:GLN:O	31:BH:146:ALA:N	2.51	0.43
31:BH:25:LYS:CE	31:BH:32:GLU:HB2	2.49	0.43
31:BH:33:LEU:HD23	31:BH:34:GLU:C	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:89:ILE:O	31:BH:89:ILE:HG23	2.18	0.43
32:BK:6:LEU:N	32:BK:8:PRO:HD2	2.33	0.43
33:BL:20:ALA:HB3	33:BL:21:PRO:HD3	2.00	0.43
34:BM:7:LYS:HZ3	34:BM:10:GLU:HB3	1.83	0.43
34:BM:116:LEU:O	34:BM:117:PHE:C	2.56	0.43
34:BM:97:ARG:O	34:BM:100:GLU:CA	2.66	0.43
35:BN:27:GLY:O	35:BN:28:SER:C	2.57	0.43
35:BN:42:SER:CA	35:BN:55:GLY:O	2.66	0.43
35:BN:63:VAL:HB	35:BN:78:ARG:CD	2.48	0.43
35:BN:6:THR:CG2	35:BN:21:CYS:HB3	2.48	0.43
35:BN:78:ARG:H	35:BN:78:ARG:CD	2.31	0.43
36:BO:128:HIS:HA	36:BO:147:LEU:HD22	1.96	0.43
24:BA:2406:U:C4	36:BO:65:ARG:HB3	2.54	0.43
36:BO:81:GLN:CB	36:BO:86:LYS:HE3	2.48	0.43
37:BP:64:ILE:O	37:BP:65:PHE:CD2	2.71	0.43
37:BP:68:ILE:HD12	37:BP:68:ILE:HA	1.86	0.43
37:BP:79:LEU:O	37:BP:80:GLU:HB3	2.18	0.43
38:BQ:28:LEU:O	38:BQ:31:HIS:N	2.51	0.43
38:BQ:52:ILE:CD1	38:BQ:56:LYS:HG2	2.47	0.43
39:BR:94:TYR:H	39:BR:94:TYR:HD1	1.66	0.43
40:BS:48:ILE:HG21	40:BS:50:ILE:HD11	1.99	0.43
40:BS:64:ARG:C	40:BS:65:LYS:O	2.56	0.43
35:BN:77:ILE:HG12	40:BS:75:ILE:HD12	1.99	0.43
40:BS:50:ILE:HD12	40:BS:76:PHE:HB3	2.00	0.43
40:BS:35:LYS:CG	40:BS:84:GLN:O	2.53	0.43
41:BT:70:ARG:O	41:BT:72:HIS:N	2.51	0.43
42:BU:6:LYS:HE3	42:BU:12:TYR:O	2.19	0.43
42:BU:83:ARG:C	42:BU:84:LYS:HG3	2.39	0.43
44:BW:26:TYR:C	44:BW:28:PHE:CZ	2.92	0.43
44:BW:68:ARG:HH11	44:BW:68:ARG:HB3	1.81	0.43
45:BX:96:ILE:HD12	45:BX:103:GLY:HA2	2.00	0.43
46:BY:118:GLN:HB3	46:BY:144:LEU:HD13	2.01	0.43
46:BY:23:LYS:HG3	46:BY:39:VAL:C	2.39	0.43
46:BY:48:PHE:CA	46:BY:54:HIS:HE1	2.32	0.43
3:AD:50:U:O2'	3:AD:51:U:H5'	2.17	0.43
24:BA:2114:A:C6	24:BA:2170:A:N6	2.86	0.43
24:BA:2126:A:C6	24:BA:2163:C:H4'	2.51	0.43
26:BC:103:ILE:CD1	26:BC:110:PHE:CZ	3.00	0.43
26:BC:163:PHE:O	26:BC:164:ARG:HB2	2.18	0.43
26:BC:19:ILE:CG2	26:BC:19:ILE:O	2.66	0.43
26:BC:210:ARG:CG	26:BC:210:ARG:HH11	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:511:C:C2'	1:AA:512:U:C6	3.01	0.43
1:AA:1223:C:H6	1:AA:1223:C:H3'	1.84	0.43
1:AA:1149:C:H2'	1:AA:1280:A:H61	1.83	0.43
1:AA:1291:G:C6	1:AA:1292:U:C4	3.07	0.43
1:AA:1331:G:C2'	1:AA:1332:A:OP2	2.66	0.43
1:AA:1349:A:C2'	1:AA:1350:A:H8	2.27	0.43
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.33	0.43
1:AA:1410:G:C6	1:AA:1411:C:N4	2.86	0.43
1:AA:1465:C:H2'	1:AA:1466:C:C5'	2.48	0.43
1:AA:1472:U:C2'	1:AA:1473:A:H5'	2.47	0.43
1:AA:1494:G:O2'	1:AA:1495:U:H6	1.98	0.43
1:AA:196:A:O2'	1:AA:222:U:O4'	2.36	0.43
1:AA:375:U:H2'	1:AA:376:G:O5'	2.18	0.43
1:AA:411:A:N7	1:AA:429:U:C5	2.86	0.43
1:AA:518:C:C5	1:AA:530:G:C8	3.07	0.43
1:AA:529:G:N1	14:AO:49:ASN:CB	2.78	0.43
1:AA:555:C:O2	1:AA:555:C:H2'	2.18	0.43
1:AA:573:A:H2'	1:AA:574:A:N7	2.31	0.43
1:AA:594:G:N1	1:AA:646:U:N3	2.67	0.43
1:AA:598:U:C2	1:AA:599:C:C5	3.06	0.43
1:AA:61:G:N7	1:AA:62:U:C4	2.87	0.43
1:AA:696:A:N1	1:AA:697:U:H1'	2.33	0.43
1:AA:707:C:C2'	1:AA:708:C:O5'	2.67	0.43
1:AA:833:U:H2'	1:AA:834:C:C6	2.52	0.43
1:AA:874:G:N2	1:AA:875:C:N1	2.66	0.43
1:AA:893:C:H2'	1:AA:894:G:H8	1.84	0.43
1:AA:885:G:N2	1:AA:913:A:C2	2.85	0.43
1:AA:918:A:H2'	1:AA:919:A:O4'	2.19	0.43
1:AA:950:U:H1'	1:AA:971:G:C4	2.53	0.43
1:AA:977:A:N6	1:AA:1224:G:O5'	2.51	0.43
3:AB:12:U:C6	3:AB:12:U:H3'	2.53	0.43
3:AC:10:G:H2'	3:AC:11:C:C6	2.53	0.43
4:AE:28:PHE:HE1	4:AE:31:TYR:C	2.22	0.43
5:AF:10:PHE:HB3	5:AF:11:ARG:NE	2.32	0.43
5:AF:55:VAL:HG22	5:AF:68:VAL:CG2	2.47	0.43
6:AG:133:VAL:HG21	6:AG:138:TYR:HE1	1.83	0.43
6:AG:179:GLU:C	6:AG:181:MET:N	2.72	0.43
6:AG:98:GLU:OE1	6:AG:107:ARG:HG3	2.18	0.43
7:AH:51:VAL:O	7:AH:52:PRO:C	2.55	0.43
8:AI:35:ALA:O	8:AI:36:ARG:CG	2.62	0.43
8:AI:90:VAL:O	8:AI:90:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:49:ILE:HG12	9:AJ:121:ALA:CB	2.47	0.43
9:AJ:139:GLU:CD	9:AJ:139:GLU:N	2.72	0.43
10:AK:100:ILE:N	10:AK:100:ILE:HD12	2.11	0.43
1:AA:1347:G:C8	11:AL:107:ARG:HB2	2.54	0.43
11:AL:23:ASN:HA	11:AL:57:GLY:O	2.18	0.43
12:AM:51:ARG:HB2	12:AM:59:SER:C	2.39	0.43
12:AM:69:ASN:O	12:AM:70:ARG:NH1	2.51	0.43
13:AN:25:TYR:OH	13:AN:87:THR:HB	2.18	0.43
9:AJ:153:HIS:CE1	13:AN:58:PRO:CD	2.98	0.43
14:AO:102:ARG:NH1	14:AO:110:VAL:HA	2.34	0.43
14:AO:64:TYR:C	14:AO:65:GLU:CG	2.87	0.43
14:AO:98:TYR:CD1	14:AO:98:TYR:N	2.86	0.43
1:AA:994:A:C4	16:AQ:5:ALA:HA	2.54	0.43
17:AR:12:ILE:HG12	17:AR:27:VAL:HG13	2.01	0.43
17:AR:77:ARG:CZ	17:AR:77:ARG:C	2.86	0.43
19:AT:60:ILE:CD1	19:AT:62:SER:HA	2.48	0.43
21:AV:30:LEU:HD23	21:AV:32:LYS:H	1.84	0.43
21:AV:41:VAL:CB	21:AV:42:PRO:CD	2.81	0.43
21:AV:63:THR:HG22	21:AV:64:GLU:N	2.33	0.43
1:AA:104:G:P	22:AW:21:LYS:HZ3	2.42	0.43
22:AW:25:ARG:O	22:AW:28:ALA:N	2.51	0.43
22:AW:76:ALA:O	22:AW:77:ALA:C	2.56	0.43
24:BA:2432:A:N6	50:B3:32:TYR:CD2	2.87	0.43
50:B3:59:PHE:CA	50:B3:62:ARG:NH1	2.82	0.43
51:B4:44:THR:CA	51:B4:52:TYR:OH	2.67	0.43
54:B7:34:TRP:CA	54:B7:36:LYS:HB2	2.48	0.43
54:B7:27:THR:N	54:B7:44:LYS:NZ	2.65	0.43
24:BA:1053:C:C4	24:BA:1054:A:N6	2.87	0.43
24:BA:1086:A:N3	24:BA:1086:A:H2'	2.33	0.43
24:BA:112:U:C3'	24:BA:113:G:C5'	2.68	0.43
24:BA:1131:G:O6	24:BA:2025:C:H1'	2.18	0.43
24:BA:1024:G:C5	24:BA:1134:G:H1'	2.54	0.43
24:BA:1164:G:C4	24:BA:1165:U:C6	3.07	0.43
24:BA:1195:G:C2	24:BA:1196:C:C6	3.06	0.43
24:BA:120:U:C2'	24:BA:121:G:OP2	2.66	0.43
24:BA:1326:U:C2	24:BA:1327:C:O4'	2.71	0.43
24:BA:1341:U:H3	24:BA:1398:C:C5'	2.16	0.43
24:BA:1389:G:H2'	24:BA:1390:U:H6	1.83	0.43
24:BA:1419:A:H3'	24:BA:1420:U:N1	2.34	0.43
24:BA:1419:A:H3'	24:BA:1420:U:O4'	2.18	0.43
24:BA:1422:G:N2	24:BA:1423:G:C4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1438:U:O2'	24:BA:1439:A:H5'	2.18	0.43
24:BA:1476:C:N4	24:BA:1477:A:N1	2.67	0.43
24:BA:1448:G:C4'	24:BA:1543:A:C6	2.90	0.43
24:BA:1791:A:P	27:BD:213:ARG:HD3	2.58	0.43
24:BA:1793:C:C4	24:BA:1794:U:O4	2.71	0.43
24:BA:1796:U:O2'	24:BA:1797:C:O5'	2.36	0.43
24:BA:1815:A:HO2'	24:BA:1816:G:H4'	1.84	0.43
24:BA:1843:C:O2'	24:BA:1844:C:H5'	2.18	0.43
24:BA:1892:C:C4	24:BA:1893:C:C5	3.07	0.43
24:BA:1899:G:N2	24:BA:1902:C:N4	2.61	0.43
24:BA:1907:G:O6	24:BA:1924:C:N4	2.52	0.43
24:BA:1953:A:N7	24:BA:2550:G:H1'	2.33	0.43
24:BA:1957:C:O2	24:BA:1958:C:C6	2.72	0.43
24:BA:1964:G:C6	24:BA:1967:C:C5	3.07	0.43
24:BA:1991:U:O5'	24:BA:1991:U:H6	2.01	0.43
24:BA:2028:U:H2'	24:BA:2029:G:N7	2.31	0.43
24:BA:2029:G:H2'	24:BA:2030:A:O3'	2.19	0.43
24:BA:2084:C:N3	24:BA:2085:C:C5	2.87	0.43
24:BA:213:A:N3	24:BA:213:A:H2'	2.33	0.43
24:BA:2286:A:C8	52:B5:31:PRO:HD2	2.53	0.43
24:BA:2289:G:C8	24:BA:2289:G:OP2	2.71	0.43
24:BA:2292:C:H2'	24:BA:2293:C:H6	1.84	0.43
24:BA:2491:U:O2	24:BA:2492:U:C4	2.70	0.43
24:BA:2526:G:C6	24:BA:2527:C:C5	3.05	0.43
24:BA:251:A:O2'	24:BA:252:G:OP1	2.36	0.43
24:BA:2532:G:H8	24:BA:2532:G:O5'	2.02	0.43
24:BA:2544:G:H2'	24:BA:2545:G:C4'	2.48	0.43
24:BA:2595:G:C2	24:BA:2599:G:C6	3.06	0.43
24:BA:2634:G:HO2'	24:BA:2635:C:C5'	2.31	0.43
24:BA:2642:G:C2	24:BA:2773:C:N3	2.86	0.43
24:BA:2642:G:N1	24:BA:2643:G:C5	2.86	0.43
24:BA:2742:C:O3'	55:B8:35:ARG:NH2	2.51	0.43
24:BA:2804:C:C4	24:BA:2805:G:N1	2.87	0.43
24:BA:281:G:O2'	24:BA:282:A:H5''	2.19	0.43
24:BA:2894:G:H2'	24:BA:2894:G:N3	2.34	0.43
24:BA:349:G:C2'	24:BA:350:U:H6	2.24	0.43
24:BA:351:G:O2'	24:BA:352:G:N7	2.35	0.43
24:BA:379:G:C6	24:BA:396:G:C6	3.07	0.43
24:BA:431:U:H2'	24:BA:431:U:O2	2.18	0.43
24:BA:32:C:H1'	24:BA:474:G:N2	2.33	0.43
24:BA:523:C:C4	24:BA:524:U:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:548:A:N6	24:BA:549:G:N3	2.66	0.43
24:BA:585:G:C6	24:BA:1251:C:C6	3.06	0.43
24:BA:586:A:H5'	29:BF:89:VAL:CB	2.47	0.43
24:BA:607:U:C2	24:BA:608:A:H8	2.34	0.43
24:BA:659:C:H4'	29:BF:102:PRO:CD	2.48	0.43
24:BA:71:A:H4'	24:BA:72:U:C5'	2.24	0.43
24:BA:761:A:H8	24:BA:761:A:O5'	2.01	0.43
24:BA:771:G:C6	24:BA:772:C:C4	3.06	0.43
24:BA:196:A:C2	24:BA:828:U:H5''	2.50	0.43
24:BA:837:C:C2'	24:BA:838:C:O5'	2.67	0.43
24:BA:844:C:OP2	24:BA:844:C:H6	2.01	0.43
24:BA:849:A:H3'	24:BA:850:C:C6	2.53	0.43
24:BA:909:A:C2	24:BA:912:C:N1	2.87	0.43
24:BA:838:C:N1	24:BA:941:A:N6	2.66	0.43
25:BB:9:G:N2	25:BB:10:C:C4	2.87	0.43
27:BD:155:LEU:CG	27:BD:155:LEU:O	2.66	0.43
27:BD:90:ALA:CB	27:BD:159:ALA:HA	2.49	0.43
27:BD:219:PRO:HG2	27:BD:220:HIS:H	1.83	0.43
24:BA:2086:U:OP2	27:BD:260:ARG:NH2	2.51	0.43
27:BD:55:GLY:CA	27:BD:217:ARG:NH2	2.81	0.43
27:BD:37:LEU:CD2	27:BD:64:ILE:H	2.27	0.43
28:BE:4:ILE:HD11	28:BE:76:ARG:NH1	2.33	0.43
28:BE:49:LEU:CD2	28:BE:76:ARG:O	2.66	0.43
29:BF:36:VAL:HG11	29:BF:183:VAL:HG21	2.00	0.43
29:BF:46:ARG:NE	29:BF:46:ARG:C	2.72	0.43
30:BG:134:GLY:HA3	30:BG:156:ASP:CB	2.49	0.43
30:BG:19:LEU:HA	30:BG:22:ARG:CB	2.47	0.43
31:BH:135:GLY:C	31:BH:136:ILE:HG22	2.39	0.43
31:BH:85:LYS:CD	31:BH:145:ALA:CB	2.93	0.43
31:BH:17:VAL:HG21	31:BH:45:VAL:CG1	2.31	0.43
31:BH:26:VAL:HB	31:BH:75:ALA:HB1	2.01	0.43
32:BK:21:VAL:CA	32:BK:26:ALA:HB2	2.49	0.43
33:BL:77:LEU:HD22	33:BL:77:LEU:HA	1.70	0.43
34:BM:34:LEU:CD2	34:BM:116:LEU:CD2	2.94	0.43
34:BM:4:TYR:HB3	41:BT:64:ARG:NH1	2.33	0.43
34:BM:89:LYS:HA	34:BM:92:ALA:HB2	1.98	0.43
35:BN:21:CYS:CB	35:BN:40:VAL:O	2.67	0.43
35:BN:36:GLY:N	35:BN:61:VAL:CG1	2.81	0.43
35:BN:87:ILE:O	35:BN:88:ASN:C	2.56	0.43
36:BO:74:GLU:CB	36:BO:107:LYS:HD3	2.49	0.43
29:BF:31:HIS:HB3	36:BO:11:GLY:H	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:124:LYS:HG2	36:BO:143:GLY:HA3	2.01	0.43
36:BO:126:VAL:HA	36:BO:146:VAL:N	2.31	0.43
36:BO:52:GLU:O	36:BO:53:GLY:C	2.57	0.43
36:BO:85:LEU:C	36:BO:86:LYS:HG2	2.39	0.43
37:BP:25:ASP:OD1	37:BP:101:ARG:NH1	2.50	0.43
37:BP:42:ILE:C	37:BP:94:VAL:CG2	2.87	0.43
38:BQ:105:ARG:NE	38:BQ:105:ARG:CA	2.79	0.43
24:BA:2708:G:H4'	38:BQ:71:GLN:OE1	2.18	0.43
39:BR:107:GLU:O	39:BR:108:GLY:C	2.56	0.43
39:BR:57:LYS:CE	39:BR:58:LEU:HB3	2.49	0.43
39:BR:69:VAL:O	39:BR:73:LEU:HD22	2.18	0.43
40:BS:96:ARG:CD	40:BS:117:ASP:OD2	2.50	0.43
40:BS:31:SER:C	40:BS:32:TYR:CD2	2.92	0.43
41:BT:89:GLU:HB3	42:BU:51:VAL:CA	2.49	0.43
42:BU:15:GLU:C	42:BU:100:ARG:CZ	2.87	0.43
42:BU:15:GLU:O	42:BU:100:ARG:NH2	2.52	0.43
42:BU:39:LEU:O	42:BU:40:LEU:CB	2.67	0.43
42:BU:5:VAL:HG13	42:BU:39:LEU:CA	2.48	0.43
42:BU:76:LYS:HA	42:BU:86:GLY:HA3	2.01	0.43
43:BV:25:ARG:NH2	43:BV:73:ALA:HA	2.34	0.43
44:BW:48:LYS:C	44:BW:49:VAL:HG13	2.39	0.43
24:BA:1335:U:P	44:BW:65:ARG:NE	2.92	0.43
45:BX:2:ARG:HE	45:BX:4:LYS:N	2.16	0.43
45:BX:35:TYR:O	45:BX:64:GLU:O	2.36	0.43
46:BY:102:LEU:CG	46:BY:125:LEU:HD12	2.48	0.43
46:BY:102:LEU:HG	46:BY:125:LEU:CG	2.46	0.43
46:BY:138:GLU:C	46:BY:139:VAL:CG2	2.87	0.43
25:BB:75:G:H21	46:BY:85:HIS:CE1	2.35	0.43
32:BK:79:ILE:HB	32:BK:144:VAL:HG23	2.00	0.43
3:AD:18:G:O2'	3:AD:19:G:H4'	2.18	0.43
3:AD:60:U:OP2	3:AD:61:C:C5	2.72	0.43
26:BC:103:ILE:HG21	26:BC:108:MET:SD	2.58	0.43
26:BC:119:VAL:HG23	26:BC:123:VAL:HG23	2.01	0.43
26:BC:132:GLY:C	26:BC:134:ARG:H	2.21	0.43
26:BC:79:LYS:HG3	26:BC:119:VAL:CG1	2.49	0.43
6:AG:47:ARG:O	6:AG:47:ARG:HG3	2.18	0.43
1:AA:131:C:N4	1:AA:232:G:H1	2.16	0.43
1:AA:342:C:C2	1:AA:348:G:N2	2.86	0.43
24:BA:1416:G:N3	24:BA:1583:A:C6	2.86	0.43
24:BA:1416:G:C2	24:BA:1417:C:N4	2.87	0.43
24:BA:1578:U:H5''	24:BA:1580:A:N1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1579:A:H3'	24:BA:1580:A:O4'	2.19	0.43
11:AL:99:LEU:CD2	11:AL:99:LEU:H	2.31	0.43
24:BA:2153:G:O2'	24:BA:2154:G:H5'	2.18	0.43
2:A1:27:A:H2'	2:A1:28:G:O4'	2.18	0.43
2:A1:51:U:HO2'	2:A1:52:U:C5'	2.31	0.43
1:AA:1004:A:C5'	1:AA:1025:U:C5	3.02	0.43
1:AA:99:C:O2'	1:AA:101:A:OP1	2.33	0.43
1:AA:1051:C:H2'	1:AA:1052:U:O4'	2.19	0.43
1:AA:1055:A:H2	5:AF:156:ARG:HD3	1.83	0.43
1:AA:1082:G:C6	1:AA:1083:U:C5	3.06	0.43
1:AA:1300:G:H2'	1:AA:1301:U:OP2	2.18	0.43
1:AA:1360:A:N1	1:AA:1361:G:C2	2.86	0.43
1:AA:1345:U:N3	1:AA:1377:A:N6	2.66	0.43
1:AA:199:G:H2'	1:AA:200:G:C8	2.53	0.43
1:AA:22:G:C2'	1:AA:23:C:C6	2.82	0.43
1:AA:247:G:N1	1:AA:278:G:C2	2.86	0.43
1:AA:285:G:C4	1:AA:286:G:C8	3.07	0.43
1:AA:333:G:C2	1:AA:334:C:C4	3.07	0.43
1:AA:404:U:OP1	6:AG:118:ARG:NH1	2.51	0.43
1:AA:407:G:O2'	1:AA:408:A:H5'	2.18	0.43
1:AA:408:A:C6	1:AA:409:G:C6	3.06	0.43
1:AA:440:A:C2'	1:AA:442:C:H6	2.31	0.43
1:AA:44:G:C2	1:AA:45:U:H1'	2.54	0.43
1:AA:558:G:C5'	1:AA:559:A:C5'	2.96	0.43
1:AA:643:C:C4	1:AA:644:G:N7	2.87	0.43
1:AA:714:G:H2'	1:AA:715:A:H8	1.77	0.43
1:AA:747:C:H2'	1:AA:748:C:C1'	2.49	0.43
1:AA:753:A:O2'	1:AA:754:C:OP2	2.34	0.43
1:AA:761:G:H2'	1:AA:762:C:H6	1.84	0.43
1:AA:862:C:N3	1:AA:863:U:C5	2.87	0.43
1:AA:896:C:C2	1:AA:897:C:C6	3.06	0.43
1:AA:934:C:C5	1:AA:1344:C:C2	3.07	0.43
1:AA:950:U:H2'	1:AA:951:G:H5'	2.00	0.43
1:AA:979:C:O2	16:AQ:19:ARG:NE	2.52	0.43
3:AC:29:G:C2	3:AC:30:G:C8	3.06	0.43
4:AE:164:VAL:HG22	4:AE:165:VAL:H	1.82	0.43
4:AE:218:ALA:O	4:AE:221:LEU:N	2.51	0.43
4:AE:223:ILE:HA	4:AE:226:ARG:NE	2.34	0.43
4:AE:47:THR:HB	4:AE:48:MET:SD	2.59	0.43
4:AE:73:THR:O	4:AE:78:GLN:HB2	2.19	0.43
5:AF:142:MET:HB3	5:AF:170:GLN:CD	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:15:THR:HG23	5:AF:15:THR:O	2.18	0.43
5:AF:39:ILE:O	5:AF:41:GLY:N	2.52	0.43
6:AG:76:ARG:HG3	6:AG:207:TYR:CD2	2.54	0.43
7:AH:50:GLU:HB2	7:AH:53:LEU:HG	2.01	0.43
7:AH:56:GLN:HE21	7:AH:56:GLN:CA	2.30	0.43
9:AJ:111:ARG:NH1	9:AJ:122:HIS:ND1	2.67	0.43
9:AJ:54:THR:OG1	9:AJ:54:THR:O	2.37	0.43
10:AK:40:ALA:O	10:AK:41:ARG:C	2.57	0.43
10:AK:7:ALA:HB2	10:AK:85:ARG:HH11	1.83	0.43
10:AK:85:ARG:HD2	10:AK:85:ARG:HA	1.79	0.43
10:AK:97:VAL:CG1	10:AK:98:LYS:NZ	2.81	0.43
11:AL:33:PHE:HE1	11:AL:47:LEU:HB2	1.84	0.43
11:AL:49:PRO:HB2	11:AL:82:ALA:HA	2.00	0.43
12:AM:63:PHE:HA	16:AQ:59:ALA:CB	2.48	0.43
12:AM:30:SER:O	12:AM:78:ASN:HB3	2.18	0.43
13:AN:42:TRP:CZ3	13:AN:47:VAL:HG22	2.53	0.43
13:AN:99:GLN:HA	13:AN:105:VAL:HG22	2.00	0.43
14:AO:32:PHE:C	14:AO:84:LEU:HD11	2.38	0.43
15:AP:8:GLU:O	15:AP:10:PRO:HD2	2.18	0.43
1:AA:1228:C:OP1	15:AP:115:LYS:HB3	2.18	0.43
15:AP:60:VAL:HG13	15:AP:64:TRP:CE3	2.54	0.43
16:AQ:24:CYS:HA	16:AQ:39:LEU:HA	2.01	0.43
18:AS:20:VAL:HG11	18:AS:32:TYR:CG	2.54	0.43
19:AT:5:VAL:CA	19:AT:59:ILE:O	2.66	0.43
19:AT:5:VAL:HG13	19:AT:59:ILE:C	2.31	0.43
19:AT:92:ARG:O	19:AT:93:GLN:C	2.57	0.43
19:AT:97:SER:C	19:AT:98:LEU:HD22	2.39	0.43
48:B1:28:MET:HB3	48:B1:32:PHE:CE1	2.54	0.43
48:B1:20:VAL:CG2	48:B1:52:ILE:HG23	2.30	0.43
48:B1:55:LEU:H	48:B1:55:LEU:CD1	2.31	0.43
49:B2:35:ARG:HG2	49:B2:35:ARG:H	1.65	0.43
52:B5:31:PRO:HB3	52:B5:34:LEU:CD1	2.30	0.43
54:B7:56:GLU:CD	54:B7:56:GLU:N	2.39	0.43
55:B8:19:ARG:HD3	55:B8:22:ARG:HB2	2.01	0.43
24:BA:1009:A:C2	24:BA:1010:A:C2	3.07	0.43
24:BA:1129:A:N7	24:BA:2570:G:O2'	2.30	0.43
24:BA:1210:A:H4'	24:BA:1211:U:C5'	2.48	0.43
24:BA:1292:U:C2	24:BA:1293:C:C5	3.07	0.43
24:BA:1296:G:N3	24:BA:1297:C:C5	2.87	0.43
24:BA:1301:A:H2'	24:BA:1302:A:O5'	2.18	0.43
24:BA:1334:G:H2'	24:BA:1335:U:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1338:G:N2	24:BA:1393:A:H2	2.15	0.43
24:BA:1471:A:C2'	24:BA:1472:A:C5'	2.92	0.43
24:BA:149:A:H8	24:BA:150:C:O4'	2.01	0.43
24:BA:1540:G:C3'	24:BA:1541:U:C5'	2.96	0.43
24:BA:1550:C:C2	24:BA:1551:C:C5	3.06	0.43
24:BA:1605:C:C6	24:BA:1606:G:C8	3.06	0.43
24:BA:1635:G:N3	24:BA:1636:C:C6	2.87	0.43
24:BA:1824:G:H2'	24:BA:1825:A:C1'	2.48	0.43
24:BA:1906:G:C8	24:BA:1929:G:C8	3.06	0.43
24:BA:1945:G:C2	24:BA:1946:U:C4	3.06	0.43
24:BA:1980:G:O2'	24:BA:1981:A:C5'	2.67	0.43
24:BA:2018:G:C6	24:BA:2019:A:C2	3.07	0.43
24:BA:2020:A:O2'	24:BA:2021:C:C5	2.71	0.43
24:BA:2025:C:C2'	24:BA:2026:C:H6	2.23	0.43
24:BA:2025:C:C4	24:BA:2026:C:N4	2.87	0.43
24:BA:562:U:C5	24:BA:2036:C:O4'	2.71	0.43
24:BA:204:A:H4'	24:BA:205:G:H5'	2.01	0.43
24:BA:2051:A:OP2	24:BA:2051:A:C8	2.69	0.43
24:BA:2210:G:O2'	24:BA:2211:G:OP2	2.33	0.43
24:BA:2230:G:H1'	50:B3:58:ARG:HH22	1.79	0.43
24:BA:2348:U:O2'	24:BA:2349:G:H5'	2.19	0.43
24:BA:2395:C:N4	24:BA:2396:G:N7	2.67	0.43
24:BA:246:C:N3	24:BA:247:G:C5	2.86	0.43
24:BA:2542:A:HO2'	24:BA:2543:G:H8	1.65	0.43
24:BA:2564:A:C6	24:BA:2565:A:N6	2.87	0.43
24:BA:2682:U:O2	28:BE:12:THR:OG1	2.30	0.43
24:BA:270(K):C:H3'	24:BA:270(L):U:C6	2.45	0.43
24:BA:2893:G:H4'	24:BA:2894:G:O4'	2.18	0.43
24:BA:29:U:O2	24:BA:30:G:C6	2.71	0.43
24:BA:327:G:H2'	24:BA:327:G:N3	2.34	0.43
24:BA:328:U:O2'	45:BX:67:LEU:N	2.51	0.43
24:BA:483:A:H62	24:BA:497:A:H2	1.60	0.43
24:BA:585:G:O6	24:BA:1251:C:C6	2.71	0.43
24:BA:602:G:H4'	24:BA:603:A:O2'	2.18	0.43
24:BA:668:G:H5'	24:BA:669:G:OP2	2.19	0.43
24:BA:685:A:C2	24:BA:774:A:C2	3.07	0.43
24:BA:685:A:C2	24:BA:774:A:N1	2.87	0.43
24:BA:684:G:C2	24:BA:794:G:N2	2.87	0.43
24:BA:945:A:C2'	24:BA:946:G:H5''	2.49	0.43
24:BA:978:G:N1	24:BA:979:G:N1	2.67	0.43
24:BA:993:G:N7	24:BA:994:C:N4	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:31:C:C2'	25:BB:32:C:OP1	2.67	0.43
25:BB:78:A:H2'	25:BB:79:C:C5'	2.44	0.43
25:BB:78:A:C6	25:BB:99:A:N6	2.83	0.43
27:BD:165:ILE:CD1	27:BD:165:ILE:N	2.81	0.43
27:BD:176:ARG:CA	27:BD:182:LEU:CD2	2.96	0.43
27:BD:169:GLU:HG3	27:BD:184:LYS:HZ3	1.80	0.43
27:BD:244:ARG:HA	27:BD:252:TRP:HE1	1.83	0.43
27:BD:270:ILE:C	27:BD:271:ILE:O	2.57	0.43
27:BD:96:HIS:CE1	27:BD:102:LYS:CD	2.93	0.43
28:BE:133:LYS:HD2	28:BE:137:HIS:ND1	2.32	0.43
28:BE:182:LEU:HD23	28:BE:182:LEU:C	2.38	0.43
29:BF:132:VAL:HG22	29:BF:135:LYS:HB2	1.98	0.43
29:BF:202:PHE:CZ	29:BF:205:ARG:NH1	2.87	0.43
29:BF:62:ARG:HG3	29:BF:63:LYS:HD3	2.00	0.43
24:BA:674:G:O3'	29:BF:74:ARG:CZ	2.66	0.43
30:BG:111:LEU:HB3	30:BG:112:PRO:HD2	1.94	0.43
30:BG:12:TYR:CE2	30:BG:13:GLU:OE2	2.72	0.43
30:BG:150:ASP:O	30:BG:152:LEU:N	2.52	0.43
31:BH:97:ARG:O	31:BH:99:VAL:HG23	2.18	0.43
34:BM:77:GLY:O	34:BM:78:TYR:O	2.37	0.43
35:BN:77:ILE:HG21	40:BS:65:LYS:CE	2.29	0.43
35:BN:90:GLN:O	35:BN:91:LEU:O	2.36	0.43
36:BO:131:SER:N	36:BO:134:ALA:HB2	2.34	0.43
36:BO:65:ARG:HH12	36:BO:68:GLN:NE2	2.14	0.43
37:BP:115:MET:HA	37:BP:118:LEU:CD1	2.47	0.43
37:BP:36:ALA:O	37:BP:37:LEU:CD2	2.67	0.43
37:BP:86:GLY:C	37:BP:88:GLY:N	2.70	0.43
37:BP:91:GLU:N	37:BP:91:GLU:OE2	2.51	0.43
38:BQ:43:GLU:O	38:BQ:46:GLY:N	2.51	0.43
38:BQ:54:LEU:O	38:BQ:80:PHE:HE1	2.00	0.43
39:BR:62:LYS:O	39:BR:63:THR:C	2.57	0.43
39:BR:68:GLN:C	39:BR:70:GLY:N	2.71	0.43
40:BS:33:LYS:HE3	40:BS:45:PHE:CE2	2.54	0.43
35:BN:77:ILE:HG23	40:BS:65:LYS:HE2	1.93	0.43
41:BT:98:LEU:HD13	41:BT:101:ARG:CG	2.49	0.43
43:BV:64:MET:O	43:BV:65:LEU:C	2.55	0.43
44:BW:23:GLU:OE1	44:BW:24:GLY:N	2.51	0.43
44:BW:39:ILE:O	44:BW:43:VAL:CG2	2.66	0.43
45:BX:84:ARG:CD	45:BX:84:ARG:C	2.76	0.43
45:BX:86:ARG:HA	45:BX:91:GLU:O	2.19	0.43
46:BY:108:PRO:O	46:BY:109:ALA:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:41:LEU:O	46:BY:44:PHE:CB	2.63	0.43
46:BY:43:GLU:HA	46:BY:46:LYS:CE	2.48	0.43
47:BZ:9:SER:O	47:BZ:10:THR:C	2.56	0.43
32:BK:109:ILE:CG2	32:BK:110:ASP:N	2.82	0.43
3:AD:19:G:OP1	3:AD:20:U:O4	2.36	0.43
3:AD:64:A:N3	3:AD:65:G:C8	2.87	0.43
24:BA:2114:A:C8	24:BA:2114:A:OP2	2.71	0.43
24:BA:2132:U:C2	24:BA:2133:G:H5''	2.54	0.43
26:BC:97:GLU:HG2	26:BC:100:ILE:HD12	1.98	0.43
26:BC:116:THR:C	26:BC:120:MET:HG2	2.38	0.43
26:BC:225:ASN:O	26:BC:227:HIS:N	2.51	0.43
26:BC:25:ALA:O	26:BC:29:VAL:HG12	2.19	0.43
26:BC:30:LYS:HD2	26:BC:185:LEU:CD1	2.48	0.43
30:BG:91:ARG:CG	30:BG:91:ARG:NH2	2.78	0.43
24:BA:1416:G:N2	24:BA:1417:C:C4	2.87	0.43
12:AM:3:LYS:HD2	12:AM:3:LYS:N	2.33	0.43
1:AA:1018:C:C4	1:AA:1019:C:C5	3.06	0.43
50:B3:50:VAL:C	50:B3:51:ASP:CG	2.76	0.43
2:A1:35:U:C6	2:A1:35:U:C3'	3.01	0.43
1:AA:1063:C:C5	1:AA:1064:G:C8	3.07	0.43
1:AA:1099:G:H2'	1:AA:1100:C:O5'	2.19	0.43
1:AA:1014:A:C2	1:AA:1219:U:H1'	2.54	0.43
1:AA:1226:C:C5	15:AP:104:ARG:CA	2.89	0.43
1:AA:1234:C:N4	1:AA:1235:U:C4	2.86	0.43
1:AA:1239:A:C8	1:AA:1241:G:H1'	2.53	0.43
1:AA:1272:G:C4	1:AA:1273:G:C8	3.07	0.43
1:AA:128:G:C5	1:AA:129:U:C4	3.07	0.43
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.84	0.43
1:AA:1350:A:C6	1:AA:1351:U:C4	3.06	0.43
1:AA:136:C:O4'	18:AS:1:MET:CE	2.66	0.43
1:AA:1436:U:C3'	1:AA:1437:C:C6	3.02	0.43
1:AA:1436:U:C2'	1:AA:1437:C:C6	3.02	0.43
1:AA:1455:G:H2'	1:AA:1459:C:H5'	1.99	0.43
1:AA:1470:G:C2	1:AA:1471:G:C4	3.07	0.43
1:AA:1483:A:H2'	1:AA:1484:C:H5'	2.00	0.43
1:AA:149:A:C2	1:AA:150:C:C2	3.07	0.43
1:AA:191(C):G:O2'	1:AA:191(D):U:H5'	2.18	0.43
1:AA:259:G:C2	1:AA:260:G:N3	2.87	0.43
1:AA:319:G:H4'	1:AA:1468:A:H4'	1.99	0.43
1:AA:424:G:N3	1:AA:425:G:C8	2.86	0.43
1:AA:407:G:N1	1:AA:436:C:C2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:483:C:N4	1:AA:484:G:N1	2.66	0.43
1:AA:494:U:O2	1:AA:495:A:O4'	2.37	0.43
1:AA:50:A:C6	1:AA:361:G:O4'	2.71	0.43
1:AA:589:C:C4	1:AA:590:C:N4	2.87	0.43
1:AA:696:A:N3	1:AA:786:G:O2'	2.35	0.43
1:AA:766:A:C8	1:AA:814:A:N1	2.87	0.43
1:AA:780:A:C2	1:AA:803:G:N1	2.86	0.43
1:AA:85:U:H2'	1:AA:86:U:O4'	2.18	0.43
1:AA:922:G:C2'	1:AA:923:A:H5'	2.48	0.43
1:AA:957:U:O2	1:AA:960:U:C5	2.71	0.43
1:AA:991:U:H6	1:AA:991:U:OP2	2.02	0.43
3:AB:45:U:O4	3:AB:46:G:O6	2.37	0.43
3:AB:63:G:H1'	24:BA:2482:G:O4'	2.19	0.43
3:AC:26:A:O2'	3:AC:27:G:H5'	2.18	0.43
3:AC:27:G:N2	3:AC:28:G:C5	2.87	0.43
3:AC:2:C:H2'	3:AC:3:C:C6	2.49	0.43
3:AC:71:G:C6	3:AC:72:C:C4	3.06	0.43
3:AC:7:A:C4	3:AC:49:C:C5	3.06	0.43
4:AE:126:GLU:O	4:AE:127:ILE:C	2.57	0.43
5:AF:108:ASN:C	5:AF:110:ASN:H	2.22	0.43
5:AF:33:LEU:O	5:AF:36:ASP:N	2.52	0.43
6:AG:11:LEU:O	6:AG:14:ARG:HB3	2.19	0.43
6:AG:20:TYR:CB	6:AG:27:TYR:HA	2.49	0.43
7:AH:55:VAL:C	7:AH:57:LYS:N	2.71	0.43
9:AJ:135:VAL:O	9:AJ:138:LYS:CB	2.56	0.43
9:AJ:139:GLU:O	9:AJ:142:GLU:HB2	2.18	0.43
9:AJ:14:PRO:HB3	9:AJ:19:GLY:C	2.39	0.43
9:AJ:63:LYS:HA	9:AJ:63:LYS:CE	2.33	0.43
9:AJ:79:ARG:HG2	9:AJ:84:ASN:HB3	2.01	0.43
10:AK:111:ILE:CG2	10:AK:118:VAL:CG1	2.97	0.43
10:AK:10:LEU:CD2	10:AK:83:ILE:HD11	2.48	0.43
11:AL:112:LYS:CG	11:AL:117:HIS:HA	2.45	0.43
1:AA:1343:G:O2'	11:AL:121:ARG:HA	2.18	0.43
11:AL:70:LYS:O	11:AL:71:SER:C	2.56	0.43
11:AL:49:PRO:CD	11:AL:78:LYS:HZ3	2.29	0.43
12:AM:48:THR:O	12:AM:49:VAL:HG23	2.19	0.43
12:AM:48:THR:OG1	12:AM:62:HIS:HB3	2.19	0.43
13:AN:123:LYS:N	13:AN:126:ARG:HG3	2.34	0.43
13:AN:63:LEU:CA	13:AN:66:LEU:HG	2.47	0.43
1:AA:363:A:P	14:AO:33:ARG:HH21	2.41	0.43
14:AO:57:LYS:C	14:AO:58:VAL:HG23	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:27:LEU:CD2	14:AO:62:SER:OG	2.66	0.43
15:AP:10:PRO:HG2	15:AP:18:ALA:CB	2.48	0.43
17:AR:29:VAL:HG22	17:AR:67:LEU:HD21	2.01	0.43
17:AR:3:ILE:HA	17:AR:38:ARG:HH12	1.84	0.43
17:AR:53:HIS:CD2	17:AR:57:LEU:CD1	3.01	0.43
18:AS:26:ARG:HD3	18:AS:31:LYS:HZ3	1.84	0.43
18:AS:26:ARG:HH11	18:AS:26:ARG:HG3	1.83	0.43
18:AS:55:ARG:O	18:AS:59:TRP:HB2	2.19	0.43
19:AT:57:VAL:CB	19:AT:75:ARG:O	2.64	0.43
20:AU:51:LEU:H	20:AU:51:LEU:HD13	1.82	0.43
20:AU:64:ARG:HG3	20:AU:64:ARG:HH11	1.83	0.43
8:AI:97:PHE:CE2	20:AU:65:ILE:HD11	2.54	0.43
13:AN:110:ASP:HA	20:AU:88:LYS:HD3	2.01	0.43
21:AV:70:LYS:O	21:AV:71:LEU:C	2.57	0.43
48:B1:34:ALA:O	48:B1:35:SER:CB	2.67	0.43
50:B3:57:GLU:CA	50:B3:61:ARG:NH1	2.81	0.43
51:B4:19:ARG:C	51:B4:21:SER:H	2.21	0.43
52:B5:22:ALA:O	52:B5:23:THR:CG2	2.66	0.43
53:B6:17:GLY:O	53:B6:21:ARG:NH1	2.51	0.43
54:B7:42:ARG:C	54:B7:43:GLN:CD	2.77	0.43
54:B7:23:VAL:CG2	54:B7:47:LYS:O	2.51	0.43
54:B7:62:LEU:N	54:B7:63:PRO:CD	2.81	0.43
55:B8:9:ARG:NH2	55:B8:16:VAL:HB	2.34	0.43
24:BA:1085:A:C8	24:BA:1086:A:H1'	2.53	0.43
24:BA:1071:G:N2	24:BA:1089:G:H2'	2.34	0.43
24:BA:1022:G:N7	24:BA:1139:G:C6	2.87	0.43
24:BA:1148:A:C6	24:BA:1149:G:C5	3.06	0.43
24:BA:126:A:N6	24:BA:127:A:N1	2.56	0.43
24:BA:1324:G:C2	24:BA:1328:G:N1	2.87	0.43
24:BA:137(A):G:N1	24:BA:138:G:O6	2.52	0.43
24:BA:1389:G:C2	24:BA:1390:U:C4	3.07	0.43
24:BA:1448:G:N2	24:BA:1529:A:H2	2.16	0.43
24:BA:1527:G:H2'	24:BA:1528:A:O5'	2.19	0.43
24:BA:1530:G:N2	24:BA:1541:U:H2'	2.23	0.43
24:BA:1689:A:N6	24:BA:1700:A:C4	2.86	0.43
24:BA:1718:G:N7	24:BA:1725:G:N7	2.66	0.43
24:BA:1728:G:H1	24:BA:1733:G:N2	2.16	0.43
24:BA:1746:G:C4	24:BA:1747:G:C8	3.06	0.43
24:BA:1856:G:N7	24:BA:1857:G:N3	2.67	0.43
24:BA:1858:G:C5	24:BA:1883:G:C2	3.07	0.43
24:BA:1927:A:N7	24:BA:1928:A:C5	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1952:A:C6	24:BA:1953:A:N1	2.86	0.43
24:BA:1997:G:H2'	24:BA:1998:G:C8	2.54	0.43
24:BA:1998:G:C6	24:BA:1999:C:N4	2.86	0.43
24:BA:2044:C:C5	24:BA:2625:G:C2	3.06	0.43
24:BA:2052:G:C6	24:BA:2053:G:C6	3.06	0.43
24:BA:2067:G:N1	24:BA:2069:G:C5	2.87	0.43
24:BA:2226:C:O2	27:BD:262:ARG:NE	2.51	0.43
24:BA:2289:G:H5'	24:BA:2384:G:O2'	2.19	0.43
24:BA:2408:U:C2	24:BA:2409:G:N7	2.86	0.43
24:BA:2459:A:OP2	24:BA:2460:U:C4	2.71	0.43
24:BA:2476:A:H2'	24:BA:2477:C:O4'	2.19	0.43
24:BA:2571:C:C2'	24:BA:2572:A:OP1	2.67	0.43
24:BA:2605:U:H2'	24:BA:2606:C:H5'	2.01	0.43
24:BA:2626:C:C3'	24:BA:2626:C:C6	3.02	0.43
24:BA:2636:U:P	28:BE:78:LEU:HD12	2.58	0.43
24:BA:2650:U:N3	24:BA:2651:C:C5	2.87	0.43
24:BA:2807:G:C6	24:BA:2893:G:N7	2.87	0.43
24:BA:2812:G:N1	24:BA:2813:A:C6	2.87	0.43
24:BA:2826:A:H2'	24:BA:2827:C:H5'	2.01	0.43
24:BA:2817:G:C2	24:BA:2830:G:C2	3.07	0.43
24:BA:2844:G:N3	24:BA:2844:G:C2'	2.81	0.43
24:BA:2884:U:H2'	24:BA:2885:C:H5'	2.01	0.43
24:BA:2811:G:C6	24:BA:2891:G:C2	3.06	0.43
24:BA:296:C:O2'	24:BA:297:C:H5'	2.19	0.43
24:BA:408:G:H2'	24:BA:409:C:H6	1.84	0.43
24:BA:449:A:C2	24:BA:450:G:N7	2.86	0.43
24:BA:527:C:C5	24:BA:2779:U:H3'	2.54	0.43
24:BA:557:U:O3'	34:BM:112:LEU:HD21	2.18	0.43
24:BA:568:U:H2'	24:BA:570:G:H8	1.75	0.43
24:BA:577:G:O6	24:BA:578:A:N6	2.52	0.43
24:BA:602:G:H21	24:BA:655:A:H2'	1.84	0.43
24:BA:734:A:C2	24:BA:735:A:C8	3.07	0.43
24:BA:734:A:N3	24:BA:735:A:C8	2.87	0.43
24:BA:770:G:N2	24:BA:771:G:H1'	2.34	0.43
24:BA:943:U:OP2	36:BO:32:THR:HB	2.18	0.43
24:BA:820:A:C8	24:BA:973:A:N6	2.87	0.43
24:BA:983:A:H2'	24:BA:984:A:N7	2.34	0.43
24:BA:986:C:C3'	24:BA:986:C:C6	3.02	0.43
24:BA:977:G:C8	24:BA:987:G:N2	2.87	0.43
24:BA:996:A:C4	24:BA:997:G:N7	2.86	0.43
25:BB:46:A:O5'	25:BB:46:A:H8	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:84:C:O2	25:BB:85:G:C8	2.71	0.43
24:BA:1971:A:C2	27:BD:239:ARG:CB	3.02	0.43
28:BE:4:ILE:O	28:BE:27:LEU:CD2	2.57	0.43
28:BE:60:ASN:OD1	28:BE:61:ARG:HD3	2.18	0.43
29:BF:106:ARG:CG	29:BF:107:LYS:H	2.31	0.43
29:BF:182:ASN:OD1	29:BF:185:ASP:N	2.52	0.43
29:BF:194:MET:HE1	29:BF:197:ASP:CA	2.49	0.43
29:BF:97:TYR:O	29:BF:98:SER:O	2.37	0.43
29:BF:9:ILE:CG2	29:BF:124:LEU:O	2.67	0.43
30:BG:99:MET:O	30:BG:102:PHE:HB2	2.18	0.43
30:BG:118:ARG:O	30:BG:180:PHE:CZ	2.72	0.43
31:BH:35:VAL:HG11	31:BH:75:ALA:HB2	2.01	0.43
32:BK:2:LYS:NZ	32:BK:39:ALA:CB	2.82	0.43
33:BL:115:LEU:HD12	33:BL:118:THR:CG2	2.49	0.43
33:BL:10:LEU:HD13	33:BL:23:VAL:HG22	1.97	0.43
34:BM:123:TYR:HB2	34:BM:129:PRO:HG3	2.00	0.43
34:BM:13:TRP:O	34:BM:138:LEU:CD1	2.62	0.43
34:BM:38:HIS:CE1	41:BT:70:ARG:HH22	2.37	0.43
36:BO:99:LEU:CD1	36:BO:101:VAL:HG22	2.44	0.43
36:BO:97:PRO:CB	36:BO:102:ARG:NH1	2.79	0.43
24:BA:663:G:H5'	36:BO:18:ARG:NE	2.32	0.43
36:BO:91:PHE:CE2	36:BO:96:THR:HA	2.53	0.43
37:BP:46:GLN:CG	37:BP:125:LEU:HA	2.48	0.43
37:BP:130:LYS:HE3	37:BP:131:ILE:H	1.82	0.43
37:BP:8:LYS:HZ1	37:BP:72:LYS:C	2.21	0.43
38:BQ:20:LEU:HD13	38:BQ:21:TYR:CA	2.49	0.43
39:BR:13:ARG:NH1	39:BR:89:ARG:O	2.51	0.43
40:BS:27:THR:CG2	40:BS:28:VAL:H	2.23	0.43
35:BN:73:ASP:HB3	40:BS:79:HIS:NE2	2.34	0.43
28:BE:9:VAL:CG2	40:BS:7:ILE:HG21	2.48	0.43
40:BS:82:LEU:O	40:BS:83:ILE:C	2.57	0.43
41:BT:41:ALA:O	41:BT:43:GLY:N	2.52	0.43
41:BT:53:ARG:CZ	41:BT:53:ARG:CB	2.97	0.43
42:BU:83:ARG:CD	42:BU:84:LYS:N	2.80	0.43
43:BV:37:ARG:HG3	43:BV:38:TYR:HD1	1.84	0.43
45:BX:82:PRO:HG2	45:BX:95:LYS:O	2.19	0.43
46:BY:11:GLU:HG3	46:BY:36:LYS:HZ1	1.82	0.43
46:BY:51:ALA:O	46:BY:53:ILE:N	2.51	0.43
32:BK:114:LEU:HB3	32:BK:115:ALA:H	1.36	0.43
3:AD:17:C:H5	3:AD:19:G:H8	1.67	0.43
24:BA:2115:G:C2	24:BA:2117:A:C8	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:107:TRP:CZ3	26:BC:110:PHE:HE2	2.37	0.43
26:BC:10:LEU:HD22	26:BC:32:LEU:O	2.18	0.43
26:BC:4:GLY:C	26:BC:5:LYS:HD2	2.39	0.43
26:BC:64:LEU:HD12	26:BC:161:ILE:CG2	2.44	0.43
1:AA:160:A:C2'	1:AA:161:A:H5'	2.49	0.43
14:AO:126:LYS:NZ	14:AO:128:ALA:N	2.57	0.43
1:AA:1164:G:C6	1:AA:1165:C:N3	2.87	0.43
3:AD:28:G:N1	3:AD:43:C:C2	2.87	0.43
24:BA:363(D):G:C2'	24:BA:363(E):U:H5'	2.49	0.43
24:BA:491:G:H2'	24:BA:492:A:O4'	2.19	0.43
32:BK:47:LEU:HG	32:BK:51:ILE:HD12	2.00	0.43
33:BL:94:GLU:O	33:BL:96:VAL:HG13	2.19	0.43
1:AA:1061:G:N3	1:AA:1197:G:C2	2.87	0.43
1:AA:1091:U:O2	1:AA:1093:A:C8	2.72	0.43
1:AA:1068:G:C8	1:AA:1094:G:N7	2.87	0.43
1:AA:1187:G:C4	1:AA:1188:A:C8	3.07	0.43
1:AA:1200:C:C5'	1:AA:1201:A:O3'	2.63	0.43
1:AA:1225:A:OP2	15:AP:102:ARG:O	2.37	0.43
1:AA:1344:C:O2'	1:AA:1349:A:H5'	2.18	0.43
1:AA:1368:G:H2'	1:AA:1369:C:H6	1.84	0.43
1:AA:1433:A:O5'	1:AA:1433:A:H8	2.02	0.43
1:AA:20:U:O4'	1:AA:572:A:C2	2.72	0.43
1:AA:21:G:C2	1:AA:915:A:N6	2.84	0.43
1:AA:556:C:H2'	1:AA:557:G:O4'	2.19	0.43
1:AA:584:G:OP2	19:AT:87:LYS:NZ	2.51	0.43
1:AA:619:U:C2'	1:AA:619:U:O2	2.67	0.43
1:AA:738:C:C4	1:AA:739:C:C5	3.06	0.43
1:AA:760:G:C5'	1:AA:761:G:OP2	2.66	0.43
1:AA:766:A:C2	1:AA:767:A:C1'	3.01	0.43
1:AA:774:G:C6	1:AA:775:G:C5	3.07	0.43
1:AA:826:C:C5'	10:AK:12:ARG:NH2	2.77	0.43
1:AA:899:C:C4	1:AA:900:A:C6	3.07	0.43
1:AA:915:A:H2'	1:AA:916:G:C4'	2.48	0.43
1:AA:965:A:P	1:AA:1198:G:H5''	2.59	0.43
1:AA:994:A:OP1	1:AA:995:C:H5	2.01	0.43
3:AB:29:G:C5	3:AB:30:G:N7	2.87	0.43
3:AC:57:G:C4'	30:BG:82:LEU:HD22	2.48	0.43
4:AE:114:ARG:C	4:AE:114:ARG:HD3	2.39	0.43
4:AE:115:LEU:O	4:AE:118:LEU:HD13	2.19	0.43
4:AE:149:LEU:HD23	4:AE:149:LEU:C	2.38	0.43
4:AE:153:ARG:O	4:AE:154:LEU:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:60:ASP:O	4:AE:63:MET:N	2.52	0.43
4:AE:84:GLU:OE1	4:AE:233:SER:OG	2.23	0.43
5:AF:143:GLU:C	5:AF:145:GLY:N	2.72	0.43
5:AF:22:TRP:CZ3	5:AF:32:LEU:HD13	2.53	0.43
5:AF:43:LEU:CD1	5:AF:55:VAL:HG21	2.49	0.43
5:AF:82:GLU:O	5:AF:85:ARG:CB	2.65	0.43
6:AG:165:MET:O	6:AG:167:GLY:N	2.52	0.43
6:AG:91:SER:O	6:AG:94:LEU:N	2.51	0.43
6:AG:94:LEU:CA	6:AG:97:LEU:HD12	2.42	0.43
7:AH:71:LEU:O	7:AH:72:GLN:HG2	2.18	0.43
8:AI:52:ILE:CG2	8:AI:87:ARG:NH2	2.82	0.43
10:AK:108:GLY:HA2	10:AK:138:TRP:CB	2.49	0.43
10:AK:117:GLY:O	10:AK:119:LEU:CD2	2.67	0.43
10:AK:11:THR:OG1	10:AK:12:ARG:N	2.52	0.43
10:AK:12:ARG:HH11	10:AK:26:VAL:HG22	1.83	0.43
10:AK:45:ILE:HD12	10:AK:61:VAL:HG22	2.01	0.43
10:AK:75:ARG:HH11	10:AK:75:ARG:CG	2.32	0.43
11:AL:38:GLN:O	11:AL:39:GLY:C	2.57	0.43
11:AL:65:VAL:CG2	11:AL:73:GLN:HB3	2.49	0.43
12:AM:81:THR:O	12:AM:85:LEU:CD1	2.67	0.43
12:AM:89:ASP:O	12:AM:90:LEU:CG	2.63	0.43
13:AN:59:TYR:CD1	13:AN:62:GLN:NE2	2.87	0.43
13:AN:69:ALA:O	13:AN:70:LYS:C	2.58	0.43
13:AN:99:GLN:O	13:AN:105:VAL:CG2	2.67	0.43
1:AA:363:A:H5''	14:AO:105:TYR:OH	2.19	0.43
15:AP:14:ARG:HA	15:AP:44:ARG:CA	2.40	0.43
15:AP:2:ALA:HB3	15:AP:4:ILE:CG1	2.49	0.43
15:AP:91:ARG:NH1	15:AP:96:LEU:HD12	2.32	0.43
16:AQ:61:TRP:C	16:AQ:61:TRP:CD1	2.92	0.43
18:AS:4:ILE:HG12	18:AS:65:GLN:O	2.17	0.43
22:AW:17:ARG:HA	22:AW:20:LEU:HG	2.00	0.43
22:AW:25:ARG:HB2	22:AW:25:ARG:CZ	2.49	0.43
1:AA:193:C:O4'	22:AW:60:GLU:CG	2.67	0.43
48:B1:27:LEU:HA	48:B1:30:LEU:CD1	2.49	0.43
51:B4:40:LYS:CE	51:B4:52:TYR:HE1	2.31	0.43
53:B6:35:ARG:O	53:B6:36:GLN:NE2	2.52	0.43
55:B8:7:VAL:CG2	55:B8:34:GLN:OE1	2.61	0.43
24:BA:1014:U:H2'	24:BA:1015:G:C5'	2.49	0.43
24:BA:1015:G:C6	24:BA:1148:A:C6	3.06	0.43
24:BA:1031:G:N1	24:BA:1032:A:C5	2.87	0.43
24:BA:107:C:O2'	24:BA:108:U:O5'	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1057:A:O4'	24:BA:1084:A:N6	2.52	0.43
24:BA:1103:A:C2'	24:BA:1104:C:OP1	2.67	0.43
24:BA:1134:G:H2'	24:BA:1134:G:N3	2.34	0.43
24:BA:1153:C:N4	24:BA:1154:G:O6	2.52	0.43
24:BA:1204:A:C5'	24:BA:1206:G:OP1	2.56	0.43
24:BA:1223:C:N3	24:BA:1227:A:N1	2.67	0.43
24:BA:1213:A:N1	24:BA:1237:A:H1'	2.34	0.43
24:BA:1267:U:H3'	24:BA:1267:U:H6	1.83	0.43
24:BA:1324:G:C2	24:BA:1331:A:C2	3.06	0.43
24:BA:1334:G:H2'	24:BA:1335:U:C6	2.54	0.43
24:BA:1353:A:O2'	24:BA:1354:A:H5'	2.19	0.43
24:BA:1358:G:H2'	24:BA:1371:G:N2	2.34	0.43
24:BA:1344:G:C6	24:BA:1385:G:N7	2.86	0.43
24:BA:1532:C:OP2	24:BA:1532:C:C6	2.72	0.43
24:BA:1568:G:P	27:BD:61:LEU:HD12	2.58	0.43
24:BA:1576:U:H2'	24:BA:1577:C:C5	2.54	0.43
24:BA:1603:A:N3	24:BA:1603:A:H2'	2.33	0.43
24:BA:1635:G:C5'	24:BA:1635:G:C8	3.02	0.43
24:BA:1672:C:H41	24:BA:1673:U:H5	1.66	0.43
24:BA:740:U:O5'	24:BA:1784:A:C6	2.72	0.43
24:BA:1826:G:N2	24:BA:1827:C:C1'	2.82	0.43
24:BA:1863:G:C5	24:BA:1864:U:C4	3.07	0.43
24:BA:185:U:O2'	24:BA:186:G:O4'	2.27	0.43
24:BA:1951:U:C2'	24:BA:1953:A:O5'	2.66	0.43
24:BA:2048:G:C2	24:BA:2049:G:N9	2.86	0.43
24:BA:216:A:C2	24:BA:217:G:C6	3.07	0.43
24:BA:2226:C:N3	24:BA:2227:A:N3	2.67	0.43
24:BA:2234:G:N2	24:BA:2235:G:H1'	2.33	0.43
24:BA:2284:C:H5''	52:B5:9:LEU:CG	2.48	0.43
24:BA:2309:A:H5''	24:BA:2310:A:H8	1.84	0.43
24:BA:2298:A:C2	24:BA:2321:G:C6	3.05	0.43
24:BA:2341:G:H2'	24:BA:2342:C:H6	1.72	0.43
24:BA:2347:C:C4	24:BA:2348:U:O4	2.72	0.43
24:BA:2358:G:N2	24:BA:2359:C:H1'	2.33	0.43
24:BA:2387:U:OP2	24:BA:2387:U:C6	2.72	0.43
24:BA:2245:U:H1'	24:BA:2435:A:H3'	2.00	0.43
24:BA:2491:U:C5	24:BA:2492:U:P	3.12	0.43
24:BA:2536:G:C5	24:BA:2537:U:C5	3.07	0.43
24:BA:2509:G:C6	24:BA:2580:U:N3	2.87	0.43
24:BA:2586:C:C3'	24:BA:2586:C:C6	3.02	0.43
24:BA:2588:G:N2	24:BA:2607:G:C5	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2662:A:H2'	24:BA:2663:G:C5'	2.46	0.43
24:BA:270(X):G:C2	24:BA:270(Y):G:H4'	2.53	0.43
24:BA:2717:G:H2'	24:BA:2718:G:H8	1.83	0.43
24:BA:2717:G:N3	24:BA:2718:G:C8	2.86	0.43
24:BA:2737:G:C5	24:BA:2738:A:N7	2.87	0.43
24:BA:281:G:N2	24:BA:283:A:H4'	2.34	0.43
24:BA:2825:C:H2'	24:BA:2826:A:C8	2.53	0.43
24:BA:2850:A:H2'	24:BA:2851:A:O5'	2.18	0.43
24:BA:2852:G:H2'	24:BA:2853:C:H6	1.74	0.43
24:BA:2863:C:C2'	24:BA:2864:G:H5'	2.48	0.43
24:BA:2863:C:C2	24:BA:2864:G:C8	3.06	0.43
24:BA:28:A:N3	24:BA:28:A:H2'	2.33	0.43
24:BA:476:G:H22	24:BA:478:A:H3'	1.81	0.43
24:BA:580:C:N3	24:BA:581:C:C5	2.87	0.43
24:BA:617:G:C8	24:BA:617:G:H3'	2.54	0.43
24:BA:685:A:C2'	24:BA:686:G:OP2	2.67	0.43
24:BA:727:A:N6	24:BA:729:G:C6	2.86	0.43
24:BA:804:A:O3'	24:BA:806:C:N4	2.52	0.43
24:BA:828:U:C5	24:BA:829:A:N7	2.87	0.43
24:BA:850:C:H4'	49:B2:18:ASP:HB2	2.01	0.43
24:BA:855:G:C6	24:BA:856:C:C4	3.07	0.43
24:BA:909:A:C2	24:BA:912:C:H1'	2.54	0.43
24:BA:838:C:C2	24:BA:941:A:N6	2.87	0.43
24:BA:974:G:N3	24:BA:1186:G:C5	2.87	0.43
24:BA:984:A:P	24:BA:985:C:H41	2.41	0.43
24:BA:99:U:H5'	24:BA:101:G:H5'	2.00	0.43
25:BB:112:G:N2	25:BB:113:C:H1'	2.34	0.43
25:BB:1:U:O4	25:BB:2:C:N4	2.52	0.43
25:BB:29:A:C2	25:BB:56:G:C2	3.06	0.43
27:BD:134:ARG:C	27:BD:136:ILE:N	2.69	0.43
27:BD:132:PRO:CB	27:BD:190:TYR:CE1	3.02	0.43
27:BD:23:GLU:HB3	27:BD:205:VAL:H	1.84	0.43
27:BD:55:GLY:HA3	27:BD:217:ARG:NH2	2.34	0.43
27:BD:226:MET:HE1	27:BD:237:GLU:C	2.39	0.43
27:BD:90:ALA:HB2	27:BD:159:ALA:HB2	2.01	0.43
27:BD:9:TYR:HH	27:BD:91:ARG:CZ	2.27	0.43
28:BE:12:THR:HG21	28:BE:19:ARG:CZ	2.46	0.43
28:BE:133:LYS:CE	28:BE:137:HIS:CB	2.97	0.43
28:BE:137:HIS:HB2	28:BE:138:PRO:CD	2.40	0.43
29:BF:168:ARG:O	29:BF:169:ASN:O	2.36	0.43
29:BF:124:LEU:HD21	29:BF:201:VAL:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:63:LYS:O	29:BF:64:ILE:HG22	2.19	0.43
30:BG:162:THR:O	30:BG:164:GLU:HG2	2.19	0.43
30:BG:27:ASN:O	30:BG:27:ASN:OD1	2.36	0.43
30:BG:36:LYS:HE2	30:BG:38:VAL:CG1	2.29	0.43
30:BG:57:ALA:HB1	30:BG:67:LYS:HG3	2.01	0.43
24:BA:2312:U:OP1	30:BG:86:MET:HG2	2.18	0.43
31:BH:96:ALA:HB3	31:BH:128:PRO:HB2	2.00	0.43
31:BH:153:LYS:HD3	31:BH:154:PRO:HD3	2.00	0.43
31:BH:85:LYS:HZ3	31:BH:141:VAL:C	2.22	0.43
24:BA:1080:C:H4'	33:BL:125:ARG:HB3	2.00	0.43
33:BL:41:PHE:HZ	33:BL:57:ILE:HD13	1.78	0.43
24:BA:1007:C:H4'	34:BM:108:PRO:HG3	2.01	0.43
34:BM:33:LEU:O	34:BM:35:ARG:CG	2.66	0.43
34:BM:78:TYR:HB3	34:BM:79:PRO:CD	2.37	0.43
35:BN:34:THR:HB	35:BN:37:ASP:OD2	2.19	0.43
35:BN:72:PRO:HB2	40:BS:84:GLN:HE21	1.84	0.43
35:BN:85:VAL:O	35:BN:93:PRO:CG	2.67	0.43
35:BN:92:GLU:OE2	35:BN:114:ILE:HG13	2.19	0.43
36:BO:97:PRO:CD	36:BO:102:ARG:NH2	2.82	0.43
36:BO:72:PRO:CB	36:BO:110:TYR:O	2.67	0.43
36:BO:122:PRO:HD3	36:BO:137:LYS:HB3	2.01	0.43
36:BO:13:ASN:O	36:BO:14:LYS:C	2.57	0.43
24:BA:389:G:C6	36:BO:64:LYS:HG2	2.54	0.43
37:BP:122:GLY:CA	37:BP:125:LEU:HG	2.41	0.43
37:BP:91:GLU:N	37:BP:91:GLU:CD	2.72	0.43
38:BQ:28:LEU:C	38:BQ:28:LEU:CD1	2.88	0.43
38:BQ:79:LEU:CG	38:BQ:80:PHE:N	2.79	0.43
39:BR:100:ALA:O	39:BR:101:LEU:C	2.56	0.43
40:BS:100:TYR:C	40:BS:102:ILE:N	2.70	0.43
40:BS:30:VAL:CG2	40:BS:32:TYR:OH	2.64	0.43
40:BS:70:VAL:HB	40:BS:74:ARG:CZ	2.43	0.43
40:BS:85:LYS:CB	40:BS:85:LYS:NZ	2.81	0.43
40:BS:8:LYS:CA	40:BS:11:GLU:OE1	2.67	0.43
41:BT:108:GLU:C	41:BT:111:GLU:HG2	2.39	0.43
41:BT:55:ARG:HA	41:BT:58:ARG:HB3	2.01	0.43
41:BT:66:ASN:O	41:BT:67:ALA:C	2.56	0.43
41:BT:84:LYS:C	41:BT:86:ALA:N	2.71	0.43
42:BU:20:LEU:HD22	42:BU:68:LYS:NZ	2.34	0.43
42:BU:67:GLY:HA2	42:BU:94:LEU:CA	2.49	0.43
24:BA:142:G:H4'	44:BW:37:THR:OG1	2.19	0.43
45:BX:47:LYS:CB	45:BX:49:VAL:HG22	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BY:57:ILE:HG23	46:BY:69:THR:C	2.36	0.43
47:BZ:26:TYR:CD1	47:BZ:29:GLN:CD	2.92	0.43
47:BZ:39:ARG:NH1	47:BZ:58:THR:OG1	2.48	0.43
47:BZ:70:GLN:OE1	47:BZ:80:HIS:CD2	2.71	0.43
32:BK:122:GLU:HA	32:BK:122:GLU:OE1	2.19	0.43
32:BK:125:GLU:O	32:BK:125:GLU:CD	2.57	0.43
32:BK:72:LEU:O	32:BK:140:LEU:CD2	2.67	0.43
3:AD:14:A:N3	3:AD:14:A:C2'	2.78	0.43
24:BA:2133:G:O6	24:BA:2157:G:H1'	2.19	0.43
24:BA:2136:C:C2	24:BA:2137:C:C5	3.07	0.43
26:BC:10:LEU:HD11	26:BC:32:LEU:HD22	1.99	0.43
26:BC:89:ALA:CB	26:BC:154:ARG:HH11	2.31	0.43
24:BA:183:C:C1'	24:BA:433:C:H1'	2.29	0.43
1:AA:1055:A:C2'	1:AA:1055:A:N3	2.77	0.43
1:AA:107:G:H2'	1:AA:108:G:O4'	2.19	0.43
1:AA:1201:A:C2'	1:AA:1201:A:N3	2.80	0.43
1:AA:1201:A:H2'	1:AA:1202:G:OP2	2.19	0.43
1:AA:1309:G:OP2	15:AP:99:ARG:CZ	2.67	0.43
1:AA:1326:C:O2'	1:AA:1327:C:C5'	2.67	0.43
1:AA:1358:U:C5	1:AA:1359:C:C5	3.06	0.43
1:AA:1365:G:C6	1:AA:1366:C:N4	2.87	0.43
1:AA:1374:A:C4	1:AA:1375:A:C8	3.07	0.43
1:AA:144:G:C4	1:AA:179:A:C2	3.07	0.43
1:AA:1516:G:C2	1:AA:1518:A:P	3.12	0.43
1:AA:185:A:O2'	1:AA:186:C:H5'	2.18	0.43
1:AA:226:G:O2'	1:AA:227:G:H5'	2.18	0.43
1:AA:242:C:H2'	1:AA:243:A:O5'	2.19	0.43
1:AA:113:G:O4'	1:AA:354:G:C5'	2.67	0.43
1:AA:451:A:H1'	1:AA:452:A:C5	2.52	0.43
1:AA:600:C:HO2'	1:AA:601:C:H5'	1.79	0.43
1:AA:67:C:C1'	1:AA:172:A:H1'	2.49	0.43
1:AA:738:C:N3	1:AA:739:C:C5	2.87	0.43
1:AA:826:C:H6	1:AA:826:C:O5'	2.02	0.43
1:AA:830:G:N1	1:AA:857:C:C4	2.87	0.43
1:AA:978:A:H3'	1:AA:980:C:H41	1.83	0.43
3:AC:22:G:O2'	3:AC:23:A:H5'	2.18	0.43
3:AC:41:C:C2	3:AC:42:C:C6	3.07	0.43
3:AC:48:C:H6	3:AC:48:C:OP2	2.02	0.43
4:AE:105:PHE:O	4:AE:109:SER:CB	2.67	0.43
4:AE:149:LEU:C	4:AE:151:GLY:H	2.22	0.43
4:AE:222:ILE:CD1	4:AE:223:ILE:HG13	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:92:TYR:N	4:AE:92:TYR:CD2	2.87	0.43
4:AE:93:VAL:HG12	4:AE:95:GLN:H	1.83	0.43
4:AE:97:TRP:O	4:AE:99:GLY:N	2.46	0.43
5:AF:29:TYR:HA	5:AF:32:LEU:HD12	2.01	0.43
5:AF:43:LEU:HD11	5:AF:55:VAL:CG1	2.48	0.43
6:AG:192:GLU:H	6:AG:192:GLU:CD	2.11	0.43
6:AG:18:LYS:O	6:AG:19:LEU:HD23	2.19	0.43
6:AG:25:ARG:NH1	6:AG:25:ARG:HB3	2.34	0.43
6:AG:32:ALA:N	6:AG:34:GLU:O	2.52	0.43
6:AG:6:GLY:O	6:AG:8:VAL:N	2.52	0.43
7:AH:33:VAL:C	7:AH:34:VAL:HG22	2.38	0.43
7:AH:82:VAL:HG11	7:AH:134:ALA:C	2.39	0.43
7:AH:97:GLY:O	7:AH:99:GLY:N	2.52	0.43
8:AI:24:GLU:OE2	8:AI:28:ARG:NH2	2.43	0.43
8:AI:94:GLN:C	8:AI:95:GLU:CG	2.87	0.43
9:AJ:76:ARG:HD3	9:AJ:89:MET:CE	2.48	0.43
9:AJ:79:ARG:CG	9:AJ:84:ASN:HB3	2.48	0.43
11:AL:5:TYR:OH	11:AL:16:ARG:CG	2.67	0.43
12:AM:24:VAL:HG13	12:AM:34:VAL:HB	2.01	0.43
1:AA:1329:A:P	15:AP:28:ALA:HB3	2.58	0.43
15:AP:71:ARG:C	15:AP:73:GLU:N	2.71	0.43
16:AQ:26:ARG:HE	16:AQ:43:CYS:CB	2.31	0.43
17:AR:54:ARG:CA	17:AR:57:LEU:HD13	2.49	0.43
17:AR:5:LYS:HG3	17:AR:6:GLU:OE2	2.19	0.43
1:AA:392:G:C5'	18:AS:12:LYS:NZ	2.78	0.43
18:AS:74:LEU:HD23	18:AS:74:LEU:HA	1.82	0.43
19:AT:104:LYS:O	19:AT:105:ALA:C	2.57	0.43
19:AT:27:PHE:O	19:AT:27:PHE:CD2	2.72	0.43
1:AA:277:C:P	19:AT:41:LYS:HZ3	2.40	0.43
19:AT:48:GLU:OE1	19:AT:48:GLU:N	2.51	0.43
19:AT:65:ILE:O	19:AT:66:SER:HB3	2.18	0.43
20:AU:45:SER:OG	20:AU:49:LYS:HE3	2.19	0.43
22:AW:12:ALA:O	22:AW:15:ARG:N	2.51	0.43
22:AW:51:GLU:CA	22:AW:54:LYS:HD2	2.42	0.43
22:AW:81:LYS:HB3	22:AW:85:MET:HE1	2.00	0.43
22:AW:82:SER:OG	22:AW:83:ARG:N	2.52	0.43
23:AX:13:ILE:HG22	23:AX:14:TRP:H	1.84	0.43
49:B2:30:ARG:CD	49:B2:30:ARG:N	2.73	0.43
49:B2:39:ASP:CG	49:B2:44:ARG:HD3	2.39	0.43
24:BA:2230:G:H1'	50:B3:58:ARG:CZ	2.47	0.43
53:B6:19:ARG:HH11	53:B6:19:ARG:CG	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:21:LYS:HZ2	54:B7:21:LYS:CB	2.14	0.43
36:BO:56:SER:OG	54:B7:27:THR:CB	2.66	0.43
55:B8:12:ASP:O	55:B8:13:LYS:HG3	2.18	0.43
55:B8:1:MET:H2	55:B8:33:LYS:HB3	1.83	0.43
24:BA:1020:A:N3	24:BA:1140:C:C2	2.87	0.43
24:BA:1197:G:C6	24:BA:1198:U:C6	3.06	0.43
24:BA:1313:U:C2'	24:BA:1314:C:H5'	2.49	0.43
24:BA:1392:A:C5	24:BA:1393:A:N6	2.87	0.43
24:BA:1492:G:O2'	24:BA:1493:C:C5	2.72	0.43
24:BA:152:G:C2'	24:BA:153:C:O4'	2.60	0.43
24:BA:1542:G:H1'	24:BA:1543:A:C2	2.54	0.43
24:BA:1659:U:H2'	24:BA:1660:C:H6	1.84	0.43
24:BA:1675:C:H2'	24:BA:1676:A:O4'	2.19	0.43
24:BA:1827:C:C2	24:BA:1828:G:H1'	2.54	0.43
24:BA:1860:G:N3	24:BA:1860:G:H2'	2.33	0.43
24:BA:1944:U:O4'	24:BA:1955:U:H6	1.98	0.43
24:BA:1992:G:N7	24:BA:1997:G:N1	2.66	0.43
24:BA:2009:G:H1'	38:BQ:107:ASP:CA	2.46	0.43
24:BA:2014:A:C2	24:BA:2015:A:N1	2.87	0.43
24:BA:2074:U:O2	24:BA:2075:U:C6	2.72	0.43
24:BA:2210:G:O6	27:BD:70:TRP:CH2	2.72	0.43
24:BA:2306:C:OP1	30:BG:136:ARG:CZ	2.67	0.43
24:BA:2311:A:C5'	24:BA:2312:U:H5	2.32	0.43
24:BA:2331:G:N7	24:BA:2332:U:C4	2.87	0.43
24:BA:2334:G:H2'	24:BA:2335:A:OP1	2.19	0.43
24:BA:2472:G:H3'	24:BA:2475:C:N4	2.34	0.43
24:BA:2495:G:H2'	24:BA:2496:C:O4'	2.19	0.43
24:BA:2556:C:C2'	24:BA:2557:G:C5'	2.97	0.43
24:BA:2556:C:H2'	24:BA:2557:G:C5'	2.49	0.43
24:BA:2559:C:C2	24:BA:2560:C:C5	3.07	0.43
24:BA:2597:G:N9	27:BD:242:ARG:NH2	2.62	0.43
24:BA:2639:A:C2'	24:BA:2640:G:O5'	2.66	0.43
24:BA:270(J):G:C5	24:BA:270(K):C:C4	3.06	0.43
24:BA:2813:A:H2'	24:BA:2814:C:O4'	2.18	0.43
24:BA:2876:G:C2	24:BA:2877:G:C8	3.07	0.43
24:BA:28:A:C2	24:BA:29:U:C1'	3.02	0.43
24:BA:295:G:HO2'	24:BA:296:C:H5'	1.80	0.43
24:BA:412:A:C2'	24:BA:413:C:H5'	2.49	0.43
24:BA:509:C:C2'	24:BA:510:C:OP2	2.66	0.43
24:BA:574:C:N1	24:BA:2055:C:C5	2.73	0.43
24:BA:647:G:C2	24:BA:648:G:C5	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:660:G:C6	24:BA:661:C:N4	2.87	0.43
24:BA:834:C:C2	24:BA:835:A:C8	3.07	0.43
24:BA:83:G:O2'	24:BA:84:A:O4'	2.32	0.43
24:BA:852:G:C6	24:BA:853:G:C5	3.07	0.43
24:BA:894:C:O2'	24:BA:895:U:H5'	2.18	0.43
24:BA:900:A:N7	24:BA:901:A:C8	2.86	0.43
24:BA:922:U:O2	24:BA:923:C:C5	2.72	0.43
24:BA:962:G:C2	24:BA:963:U:N3	2.87	0.43
24:BA:969:U:C2'	24:BA:970:C:C5'	2.94	0.43
24:BA:988:A:O2'	24:BA:1157:G:C5'	2.65	0.43
25:BB:4:C:N4	25:BB:117:G:N1	2.67	0.43
25:BB:18:G:C2	25:BB:19:G:C8	3.07	0.43
25:BB:83:G:N2	25:BB:84:C:C1'	2.81	0.43
25:BB:85:G:C2	25:BB:86:G:C5	3.07	0.43
25:BB:99:A:C2'	25:BB:100:G:H5'	2.49	0.43
27:BD:160:GLY:C	27:BD:196:VAL:CG2	2.87	0.43
24:BA:1775:U:N3	27:BD:208:LYS:HD2	2.34	0.43
27:BD:55:GLY:CA	27:BD:218:ARG:HD3	2.48	0.43
27:BD:21:PHE:N	27:BD:21:PHE:CD2	2.84	0.43
27:BD:245:PRO:HA	27:BD:246:PRO:HD3	1.68	0.43
27:BD:252:TRP:CE3	27:BD:252:TRP:CA	2.98	0.43
27:BD:28:GLU:N	27:BD:28:GLU:OE1	2.52	0.43
27:BD:72:LYS:HZ2	27:BD:75:ILE:CD1	2.32	0.43
27:BD:78:LYS:O	27:BD:95:LEU:CD2	2.66	0.43
28:BE:144:ARG:O	28:BE:144:ARG:CG	2.67	0.43
28:BE:49:LEU:HD13	28:BE:50:GLY:N	2.34	0.43
28:BE:71:GLY:C	28:BE:72:VAL:HG13	2.39	0.43
29:BF:9:ILE:HA	29:BF:10:PRO:HD3	1.76	0.43
30:BG:100:TRP:O	30:BG:101:ILE:C	2.55	0.43
30:BG:165:THR:O	30:BG:168:GLU:HB2	2.19	0.43
31:BH:24:VAL:CG2	31:BH:35:VAL:HG23	2.35	0.43
24:BA:558:G:C5'	34:BM:109:LYS:HG2	2.47	0.43
34:BM:107:LEU:HD13	34:BM:117:PHE:CG	2.53	0.43
34:BM:87:LEU:HD21	34:BM:88:GLU:OE1	2.18	0.43
35:BN:10:VAL:HG13	35:BN:14:THR:CG2	2.48	0.43
35:BN:3:GLN:OE1	35:BN:3:GLN:C	2.56	0.43
35:BN:42:SER:OG	35:BN:43:VAL:N	2.51	0.43
24:BA:1190:G:OP2	36:BO:29:LYS:HD3	2.18	0.43
36:BO:57:THR:HG22	36:BO:58:THR:N	2.34	0.43
36:BO:96:THR:OG1	36:BO:102:ARG:CD	2.65	0.43
38:BQ:35:THR:CG2	38:BQ:113:LEU:HD23	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:73:VAL:CG2	38:BQ:74:LYS:H	2.25	0.43
38:BQ:85:PRO:C	38:BQ:87:TYR:N	2.72	0.43
39:BR:14:VAL:HG12	39:BR:15:ARG:H	1.81	0.43
39:BR:28:VAL:HA	39:BR:37:ALA:CB	2.46	0.43
39:BR:47:THR:O	39:BR:48:LEU:O	2.37	0.43
39:BR:77:ALA:O	39:BR:80:LEU:N	2.52	0.43
40:BS:67:SER:HA	40:BS:75:ILE:HA	2.01	0.43
41:BT:74:LEU:HD23	41:BT:75:ASN:H	1.83	0.43
43:BV:8:ARG:HA	43:BV:102:HIS:CD2	2.54	0.43
43:BV:24:ILE:HG22	43:BV:32:ALA:CA	2.49	0.43
44:BW:14:SER:O	44:BW:17:ALA:HB3	2.19	0.43
44:BW:18:TYR:OH	44:BW:96:ILE:CD1	2.67	0.43
45:BX:97:ARG:O	45:BX:98:VAL:CG2	2.66	0.43
46:BY:30:ASN:HA	46:BY:89:PHE:CD2	2.54	0.43
47:BZ:44:ARG:HG2	47:BZ:45:PHE:CE2	2.54	0.43
47:BZ:44:ARG:HE	47:BZ:77:ARG:NE	2.17	0.43
32:BK:102:SER:CA	32:BK:108:THR:HG22	2.48	0.43
32:BK:113:ARG:CZ	32:BK:132:PRO:CB	2.94	0.43
3:AD:54:U:OP2	3:AD:55:U:C5	2.72	0.43
3:AD:55:U:H2'	3:AD:57:G:OP2	2.18	0.43
24:BA:2149:G:N2	24:BA:2150:U:H1'	2.34	0.43
26:BC:120:MET:CE	26:BC:145:VAL:HG22	2.49	0.43
26:BC:182:PRO:HG2	26:BC:183:GLU:OE1	2.17	0.43
24:BA:2124:G:N3	26:BC:217:THR:HA	2.34	0.43
26:BC:75:LEU:HD22	26:BC:110:PHE:CE1	2.51	0.43
26:BC:81:GLU:OE2	26:BC:82:LYS:CD	2.67	0.43
24:BA:55:G:C2	24:BA:56:A:C5	3.07	0.43
1:AA:30:U:H2'	1:AA:31:G:OP1	2.19	0.43
1:AA:1035:A:H2'	1:AA:1036:G:C5'	2.43	0.42
1:AA:1067:A:N3	1:AA:1068:G:C1'	2.83	0.42
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.84	0.42
1:AA:1130:A:H5''	1:AA:1131:G:OP2	2.19	0.42
1:AA:1161:C:H2'	1:AA:1162:C:C5	2.54	0.42
1:AA:1253:G:N2	1:AA:1285:A:N6	2.66	0.42
1:AA:1360:A:N1	1:AA:1361:G:N1	2.67	0.42
1:AA:1402:C:O2'	1:AA:1403:C:H5'	2.19	0.42
1:AA:1414:U:C2'	1:AA:1415:G:H8	2.23	0.42
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.49	0.42
1:AA:1443:G:H4'	1:AA:1446:A:C4'	2.42	0.42
1:AA:151:A:N6	1:AA:171:A:C6	2.87	0.42
1:AA:183:G:N3	1:AA:223:U:O2'	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:246:A:H1'	1:AA:247:G:C1'	2.48	0.42
1:AA:253:U:H2'	1:AA:254:G:C8	2.54	0.42
1:AA:266:G:H2'	1:AA:267:C:OP2	2.19	0.42
1:AA:307:C:C6	1:AA:307:C:O5'	2.72	0.42
1:AA:383:A:H8	1:AA:383:A:OP2	2.01	0.42
1:AA:519:C:C2'	1:AA:520:A:C5'	2.90	0.42
1:AA:539:A:P	14:AO:114:LYS:NZ	2.91	0.42
1:AA:558:G:O5'	1:AA:559:A:O3'	2.37	0.42
1:AA:584:G:C2	1:AA:585:G:C8	3.07	0.42
1:AA:687:A:C2	1:AA:704:A:C5	3.07	0.42
1:AA:84:U:C2'	1:AA:85:U:O4'	2.62	0.42
1:AA:892:A:C2	1:AA:907:A:C4	3.07	0.42
1:AA:901:A:C2'	1:AA:902:G:O5'	2.65	0.42
1:AA:908:A:N3	1:AA:909:A:N7	2.67	0.42
1:AA:971:G:H2'	1:AA:1365:G:O2'	2.19	0.42
1:AA:973:G:H3'	1:AA:974:A:H5''	2.01	0.42
3:AC:18:G:OP1	3:AC:18:G:C8	2.71	0.42
3:AC:34:G:C6	3:AC:35:A:N7	2.87	0.42
3:AD:34:G:N3	3:AD:35:A:H5''	2.34	0.42
4:AE:120:ALA:O	4:AE:121:LEU:C	2.56	0.42
4:AE:77:ALA:CB	4:AE:211:ILE:HD13	2.44	0.42
4:AE:55:PHE:HA	4:AE:58:ILE:HG13	2.01	0.42
4:AE:8:LYS:O	4:AE:9:GLU:CB	2.67	0.42
5:AF:112:SER:OG	5:AF:115:LEU:CG	2.67	0.42
5:AF:42:LEU:O	5:AF:45:LYS:HB3	2.19	0.42
6:AG:69:GLY:C	6:AG:70:ILE:HG12	2.39	0.42
7:AH:82:VAL:HG13	7:AH:134:ALA:HB1	2.00	0.42
7:AH:141:GLN:O	7:AH:142:LEU:CB	2.66	0.42
7:AH:65:ASN:HD21	7:AH:136:MET:CE	2.32	0.42
7:AH:71:LEU:CG	7:AH:72:GLN:N	2.82	0.42
8:AI:2:ARG:HH11	8:AI:69:GLU:HB3	1.84	0.42
9:AJ:112:PRO:O	9:AJ:113:GLU:HG2	2.20	0.42
9:AJ:50:ILE:CD1	9:AJ:58:PRO:CB	2.96	0.42
9:AJ:76:ARG:HH12	9:AJ:89:MET:HG3	1.82	0.42
1:AA:642:A:C5	10:AK:115:SER:HA	2.54	0.42
10:AK:37:ARG:O	10:AK:38:ILE:C	2.57	0.42
10:AK:40:ALA:HB2	10:AK:45:ILE:CG2	2.49	0.42
10:AK:45:ILE:HD12	10:AK:61:VAL:CG2	2.48	0.42
10:AK:83:ILE:HG23	10:AK:83:ILE:O	2.18	0.42
11:AL:10:ARG:HH21	11:AL:75:ASP:CG	2.22	0.42
11:AL:33:PHE:HB3	11:AL:34:ASN:H	1.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:53:VAL:HG12	11:AL:53:VAL:O	2.18	0.42
11:AL:66:ARG:HB3	11:AL:66:ARG:HE	1.70	0.42
11:AL:83:ARG:HA	11:AL:86:VAL:HG23	2.00	0.42
12:AM:48:THR:OG1	12:AM:62:HIS:CD2	2.72	0.42
13:AN:99:GLN:CB	13:AN:105:VAL:HG11	2.39	0.42
14:AO:9:GLN:O	14:AO:12:ARG:N	2.50	0.42
1:AA:965:A:C2	15:AP:124:PRO:HB3	2.54	0.42
15:AP:13:LYS:HA	15:AP:44:ARG:HE	1.80	0.42
15:AP:4:ILE:O	15:AP:8:GLU:HB2	2.19	0.42
1:AA:980:C:H1'	16:AQ:19:ARG:HA	2.01	0.42
16:AQ:39:LEU:HB2	16:AQ:44:LEU:HB2	2.01	0.42
16:AQ:4:LYS:HA	16:AQ:7:ILE:CD1	2.49	0.42
17:AR:63:ARG:HG3	17:AR:64:ARG:H	1.83	0.42
17:AR:69:TYR:CZ	17:AR:73:GLU:HG3	2.54	0.42
18:AS:52:ASP:OD1	18:AS:55:ARG:HG2	2.18	0.42
18:AS:55:ARG:HH21	18:AS:58:TYR:CB	2.32	0.42
18:AS:58:TYR:O	18:AS:59:TRP:C	2.57	0.42
19:AT:82:MET:C	19:AT:85:VAL:HB	2.36	0.42
20:AU:71:LYS:O	20:AU:75:ILE:HG13	2.19	0.42
22:AW:51:GLU:HA	22:AW:54:LYS:HE3	1.97	0.42
22:AW:75:ASN:O	22:AW:78:ALA:CB	2.60	0.42
48:B1:20:VAL:HB	48:B1:55:LEU:HB3	2.01	0.42
51:B4:45:VAL:HB	51:B4:50:GLY:C	2.38	0.42
51:B4:8:LYS:HB2	51:B4:9:LYS:HE2	2.00	0.42
52:B5:45:LYS:O	52:B5:46:HIS:CB	2.66	0.42
53:B6:28:ARG:H	53:B6:28:ARG:HG3	1.53	0.42
53:B6:5:TRP:CZ3	53:B6:7:PRO:HB3	2.53	0.42
54:B7:29:LYS:HE2	54:B7:36:LYS:HZ3	1.84	0.42
55:B8:22:ARG:HD3	55:B8:24:TYR:CE1	2.53	0.42
24:BA:1023:U:H2'	24:BA:1024:G:C4'	2.49	0.42
24:BA:1044:G:N3	24:BA:1111:A:H1'	2.34	0.42
24:BA:1155:A:C2	24:BA:1157:G:C1'	2.97	0.42
24:BA:1179:C:H3'	24:BA:1179:C:OP2	2.19	0.42
24:BA:1212:G:N7	24:BA:1235:G:N1	2.67	0.42
24:BA:1314:C:N4	24:BA:1315:C:N4	2.67	0.42
24:BA:1346:G:C6	24:BA:1347:G:C6	3.07	0.42
24:BA:1422:G:C2	24:BA:1423:G:C4	3.07	0.42
24:BA:1449:A:C8	24:BA:1529:A:C2	3.08	0.42
24:BA:1473:G:O2'	24:BA:1474:C:O4'	2.35	0.42
24:BA:1475:G:O6	24:BA:1517:G:C6	2.71	0.42
24:BA:1534:G:O2'	24:BA:1535:U:C5	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1535:U:O2	24:BA:1536:A:H1'	2.19	0.42
24:BA:1620:G:C2'	24:BA:1621:U:O5'	2.67	0.42
24:BA:1656:C:H2'	24:BA:1656:C:O2	2.19	0.42
24:BA:1700:A:H2'	24:BA:1701:A:C4'	2.49	0.42
24:BA:1780:A:P	24:BA:1782:C:P	3.17	0.42
24:BA:1809:A:H61	50:B3:3:GLU:CB	2.31	0.42
24:BA:1832:C:C5	24:BA:1833:U:C5	3.07	0.42
24:BA:1842:G:C6	24:BA:1901:A:C6	3.07	0.42
24:BA:1915:U:C2'	24:BA:1916:A:OP2	2.67	0.42
24:BA:1977:A:C2	24:BA:1978:A:H1'	2.54	0.42
24:BA:223:A:N6	24:BA:374:A:O2'	2.51	0.42
24:BA:2311:A:C2	30:BG:45:GLU:OE1	2.71	0.42
24:BA:2313:C:C2	24:BA:2314:C:C5	3.07	0.42
24:BA:2423:U:H1'	24:BA:2425:A:N9	2.34	0.42
24:BA:2435:A:C2	24:BA:2436:G:C4	3.07	0.42
24:BA:2460:U:H2'	24:BA:2461:C:C5	2.54	0.42
24:BA:2483:C:C2'	24:BA:2483:C:O2	2.67	0.42
24:BA:2563:U:O2	24:BA:2565:A:O5'	2.36	0.42
24:BA:2580:U:H2'	24:BA:2581:G:C8	2.54	0.42
24:BA:2585:U:H2'	24:BA:2586:C:OP2	2.19	0.42
24:BA:2616:C:H3'	24:BA:2617:C:C5	2.54	0.42
24:BA:2617:C:C2'	24:BA:2618:G:O5'	2.66	0.42
24:BA:2653:U:H3	24:BA:2654:A:N6	2.15	0.42
24:BA:2704:C:H2'	24:BA:2705:A:C1'	2.49	0.42
24:BA:2689:U:C4	24:BA:2713:A:N6	2.87	0.42
24:BA:2715:C:N3	24:BA:2716:U:C5	2.87	0.42
24:BA:297:C:H5''	45:BX:83:THR:CB	2.46	0.42
24:BA:457:A:H1'	24:BA:459:U:C4	2.53	0.42
24:BA:471:A:C5	24:BA:472:A:N7	2.87	0.42
24:BA:475:U:O2	24:BA:475:U:H2'	2.19	0.42
24:BA:552:G:O2'	24:BA:553:U:C5'	2.65	0.42
24:BA:565:C:H1'	24:BA:577:G:N2	2.34	0.42
24:BA:61:G:C6	24:BA:62:C:N3	2.87	0.42
24:BA:629:G:N2	24:BA:640:C:OP1	2.49	0.42
24:BA:775:G:N2	24:BA:787:U:O3'	2.51	0.42
24:BA:819:A:H2'	24:BA:820:A:C1'	2.49	0.42
24:BA:822:U:O2	24:BA:823:G:C8	2.72	0.42
24:BA:849:A:C4	24:BA:850:C:C5	3.07	0.42
24:BA:933:A:H2'	24:BA:934:G:O5'	2.19	0.42
24:BA:974:G:HO2'	24:BA:1186:G:C1'	2.31	0.42
25:BB:59:A:C3'	25:BB:60:C:H5'	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:101:GLU:OE1	27:BD:102:LYS:N	2.52	0.42
24:BA:1820:U:C5	27:BD:159:ALA:C	2.89	0.42
24:BA:1820:U:C1'	27:BD:202:LYS:HG2	2.48	0.42
27:BD:23:GLU:CB	27:BD:205:VAL:H	2.32	0.42
27:BD:9:TYR:CG	27:BD:25:THR:HG23	2.53	0.42
27:BD:260:ARG:NH1	27:BD:260:ARG:CG	2.66	0.42
27:BD:5:LYS:O	27:BD:27:THR:HG23	2.19	0.42
27:BD:85:ASP:CG	27:BD:87:ASN:ND2	2.72	0.42
28:BE:37:ARG:H	28:BE:40:GLU:HB2	1.83	0.42
28:BE:49:LEU:HD12	28:BE:50:GLY:N	2.34	0.42
29:BF:133:ASN:HA	29:BF:133:ASN:HD22	1.45	0.42
29:BF:53:THR:O	29:BF:56:GLU:HG3	2.19	0.42
30:BG:102:PHE:C	30:BG:104:GLU:N	2.68	0.42
30:BG:22:ARG:HG3	30:BG:23:PHE:HD2	1.84	0.42
31:BH:164:TYR:CD2	31:BH:167:GLU:HG2	2.53	0.42
31:BH:67:LEU:O	31:BH:69:ARG:N	2.52	0.42
31:BH:98:LEU:HD22	31:BH:100:GLY:C	2.39	0.42
32:BK:2:LYS:HZ2	32:BK:44:LEU:HD11	1.82	0.42
33:BL:8:VAL:CG1	33:BL:27:LEU:HD23	2.49	0.42
35:BN:110:GLY:O	35:BN:111:PHE:HB3	2.19	0.42
35:BN:112:MET:O	35:BN:115:VAL:CA	2.67	0.42
35:BN:113:LYS:O	35:BN:114:ILE:C	2.58	0.42
35:BN:11:ALA:C	35:BN:97:ARG:HH22	2.22	0.42
35:BN:68:GLU:OE2	35:BN:76:ALA:CB	2.42	0.42
36:BO:114:ILE:HD12	36:BO:123:LEU:HG	1.97	0.42
36:BO:23:PRO:CB	36:BO:28:GLY:CA	2.93	0.42
36:BO:84:ASN:C	36:BO:85:LEU:HD12	2.39	0.42
37:BP:115:MET:C	37:BP:119:ARG:HG3	2.39	0.42
37:BP:16:ARG:HG3	37:BP:72:LYS:CG	2.48	0.42
37:BP:65:PHE:HA	37:BP:65:PHE:HD2	1.69	0.42
37:BP:6:ARG:HB2	37:BP:44:ALA:HB3	1.94	0.42
37:BP:69:PHE:C	37:BP:71:ASP:H	2.21	0.42
38:BQ:4:LEU:O	38:BQ:5:LYS:C	2.58	0.42
38:BQ:57:ARG:CZ	38:BQ:62:ALA:HB2	2.45	0.42
38:BQ:77:ARG:HH11	38:BQ:77:ARG:CG	2.29	0.42
38:BQ:98:LEU:CD2	38:BQ:99:LYS:NZ	2.77	0.42
40:BS:51:ARG:HH12	40:BS:114:LEU:HD13	1.80	0.42
41:BT:99:ALA:CA	41:BT:106:PHE:CG	2.95	0.42
41:BT:43:GLY:O	41:BT:44:ASN:C	2.55	0.42
41:BT:45:TYR:O	41:BT:47:TYR:N	2.52	0.42
42:BU:89:GLN:HG2	42:BU:91:TYR:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:9:GLY:O	42:BU:10:LYS:CB	2.57	0.42
43:BV:6:ILE:CA	43:BV:103:ILE:O	2.67	0.42
43:BV:24:ILE:HG23	43:BV:35:ILE:CG2	2.49	0.42
43:BV:58:ALA:HB1	43:BV:69:LEU:HD21	2.01	0.42
43:BV:70:TYR:OH	43:BV:72:LYS:HB2	2.18	0.42
44:BW:18:TYR:HD1	44:BW:21:PHE:HE1	1.66	0.42
44:BW:33:LYS:HZ3	44:BW:33:LYS:HB2	1.84	0.42
47:BZ:27:GLU:N	47:BZ:69:PHE:CE1	2.86	0.42
24:BA:2128:C:N4	24:BA:2129:C:C5	2.87	0.42
24:BA:2160:G:N2	24:BA:2161:C:O2	2.52	0.42
26:BC:176:GLY:CA	26:BC:185:LEU:HD22	2.49	0.42
24:BA:1589:C:C2	24:BA:1590:U:C6	3.07	0.42
3:AD:40:C:C2'	3:AD:40:C:O2	2.67	0.42
39:BR:56:LEU:HB3	39:BR:59:LYS:HZ3	1.83	0.42
24:BA:491:G:H2'	24:BA:492:A:C1'	2.49	0.42
3:AB:1:G:N3	3:AB:1:G:C2'	2.81	0.42
12:AM:13:HIS:ND1	12:AM:13:HIS:O	2.52	0.42
1:AA:1000:A:H2'	1:AA:1001:G:H5'	2.00	0.42
1:AA:1095:U:C2	1:AA:1096:C:C5	3.07	0.42
1:AA:1105:A:C2	1:AA:1106:G:C8	3.07	0.42
1:AA:111:G:C5'	1:AA:112:G:OP2	2.67	0.42
1:AA:1189:C:H2'	1:AA:1190:G:H5'	2.01	0.42
1:AA:120:A:C6	1:AA:122:G:C2	3.08	0.42
1:AA:1250:A:H2'	1:AA:1251:A:O4'	2.19	0.42
1:AA:1285:A:O2'	1:AA:1286:A:P	2.77	0.42
1:AA:1291:G:N1	1:AA:1292:U:C4	2.87	0.42
1:AA:1333:A:H2'	1:AA:1334:G:H8	1.80	0.42
1:AA:945:G:C2	1:AA:1337:G:N3	2.86	0.42
1:AA:174:C:OP1	1:AA:197:A:H2	2.03	0.42
1:AA:51:A:N1	1:AA:353:A:C2	2.87	0.42
1:AA:383:A:C2'	1:AA:384:G:H5'	2.49	0.42
1:AA:390:C:H2'	1:AA:391:G:O5'	2.19	0.42
1:AA:438:G:C2	1:AA:495:A:C8	3.07	0.42
1:AA:503:C:C4	1:AA:504:C:C5	3.07	0.42
1:AA:503:C:C2	1:AA:504:C:C6	3.07	0.42
1:AA:519:C:C5	1:AA:520:A:C2	3.07	0.42
1:AA:580:U:O2	1:AA:580:U:H2'	2.19	0.42
1:AA:60:A:OP2	1:AA:387:U:H4'	2.19	0.42
1:AA:65:U:C6	1:AA:381:C:C5	3.07	0.42
1:AA:721:G:OP1	1:AA:721:G:H8	2.02	0.42
1:AA:767:A:C2'	1:AA:768:A:H5'	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:C2	1:AA:782:A:H1'	2.55	0.42
1:AA:880:C:H2'	1:AA:881:G:O5'	2.19	0.42
1:AA:900:A:C4	1:AA:901:A:N7	2.87	0.42
1:AA:89:U:C4	1:AA:90:C:C5	3.07	0.42
1:AA:953:G:O2'	1:AA:954:G:C5'	2.67	0.42
1:AA:958:A:O2'	1:AA:959:A:H5'	2.20	0.42
1:AA:962:C:C4	1:AA:963:G:C5	3.07	0.42
1:AA:975:A:H4'	1:AA:976:G:C5'	2.50	0.42
1:AA:975:A:H4'	1:AA:976:G:H5'	2.00	0.42
3:AB:14:A:C6	3:AB:22:G:O2'	2.70	0.42
3:AB:24:G:C5	3:AB:25:C:C5	3.06	0.42
3:AB:52:G:O2'	24:BA:2470:G:C4'	2.67	0.42
3:AB:75:C:N4	24:BA:2553:G:H1	2.15	0.42
3:AC:10:G:H2'	3:AC:11:C:H6	1.84	0.42
4:AE:136:VAL:C	4:AE:139:LYS:HG2	2.40	0.42
4:AE:95:GLN:HA	4:AE:95:GLN:OE1	2.19	0.42
5:AF:113:ALA:HB3	5:AF:114:PRO:HD3	2.01	0.42
5:AF:175:LEU:O	5:AF:176:HIS:O	2.37	0.42
5:AF:92:ALA:O	5:AF:96:GLY:N	2.47	0.42
6:AG:120:LEU:O	6:AG:121:VAL:C	2.57	0.42
6:AG:128:VAL:CG2	6:AG:133:VAL:N	2.82	0.42
6:AG:170:VAL:HG11	6:AG:174:LEU:CD1	2.49	0.42
6:AG:13:ARG:N	6:AG:32:ALA:HB2	2.34	0.42
6:AG:3:ARG:HG3	6:AG:118:ARG:CZ	2.49	0.42
6:AG:61:LYS:HZ1	6:AG:72:GLU:CD	2.22	0.42
7:AH:50:GLU:O	7:AH:51:VAL:C	2.57	0.42
7:AH:95:ALA:H	7:AH:96:PRO:CD	2.31	0.42
1:AA:1346:A:N1	9:AJ:10:ARG:HD3	2.31	0.42
10:AK:101:PRO:O	10:AK:102:ARG:CG	2.67	0.42
10:AK:121:ASP:HB3	10:AK:122:ARG:H	1.39	0.42
13:AN:31:THR:CG2	13:AN:32:ILE:N	2.81	0.42
13:AN:44:SER:O	13:AN:47:VAL:HB	2.20	0.42
9:AJ:150:ALA:CA	13:AN:59:TYR:CG	2.99	0.42
13:AN:84:VAL:HG21	20:AU:88:LYS:CE	2.48	0.42
14:AO:111:LYS:O	14:AO:112:ASP:C	2.57	0.42
15:AP:27:LYS:CD	15:AP:31:LYS:NZ	2.75	0.42
16:AQ:12:ARG:HD3	16:AQ:12:ARG:HA	1.83	0.42
16:AQ:49:HIS:O	16:AQ:50:LYS:C	2.58	0.42
1:AA:668:G:C4'	17:AR:48:LYS:O	2.60	0.42
19:AT:22:LEU:HD12	19:AT:23:VAL:N	2.34	0.42
19:AT:83:ASP:O	19:AT:86:GLU:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:97:SER:O	19:AT:98:LEU:CD2	2.61	0.42
20:AU:36:ASN:HD22	20:AU:36:ASN:HA	1.60	0.42
21:AV:71:LEU:O	21:AV:72:GLY:C	2.54	0.42
22:AW:75:ASN:HB2	22:AW:78:ALA:HB3	2.01	0.42
48:B1:39:LEU:N	48:B1:39:LEU:HD23	2.34	0.42
49:B2:41:PRO:CA	49:B2:44:ARG:HH11	2.17	0.42
50:B3:14:ILE:HG23	50:B3:16:CYS:SG	2.59	0.42
24:BA:1011:G:O6	24:BA:1151:G:C6	2.71	0.42
24:BA:1063:G:C8	24:BA:1064:C:C5	3.07	0.42
24:BA:1064:C:H3'	24:BA:1065:U:H5	1.83	0.42
24:BA:1081:U:H2'	24:BA:1082:U:C6	2.53	0.42
24:BA:1106:G:C6	24:BA:1107:G:N1	2.87	0.42
24:BA:1223:C:N4	42:BU:88:ARG:HH22	2.17	0.42
24:BA:1223:C:O2	24:BA:1225:C:C5'	2.66	0.42
24:BA:1275:A:C2'	24:BA:1276:A:O5'	2.68	0.42
24:BA:1300:U:P	24:BA:1300:U:C6	3.12	0.42
24:BA:1343:G:C6	24:BA:1344:G:C8	3.07	0.42
24:BA:1366:A:H5''	50:B3:1:MET:N	2.31	0.42
24:BA:1389:G:H5'	24:BA:1525:G:H5'	1.99	0.42
24:BA:1406:U:O2	24:BA:1407:C:C6	2.72	0.42
24:BA:1455:G:C6	24:BA:1456:G:C8	3.07	0.42
24:BA:1545:A:H3'	24:BA:1545(A):A:C8	2.54	0.42
24:BA:1466:G:O2'	24:BA:1546:C:H4'	2.18	0.42
24:BA:1615:C:C4	24:BA:1617:C:H1'	2.53	0.42
24:BA:1272:A:C6	24:BA:1618:A:N3	2.88	0.42
24:BA:162:U:OP2	24:BA:171:G:C2	2.72	0.42
24:BA:1668:A:H2	24:BA:1994:C:C6	2.38	0.42
24:BA:1682:G:H3'	24:BA:1683:C:H5	1.83	0.42
24:BA:1696:G:C6	24:BA:1697:G:N1	2.86	0.42
24:BA:1742:C:H6	24:BA:1742:C:OP2	2.01	0.42
24:BA:1753:G:N1	24:BA:1756:G:C2	2.87	0.42
24:BA:1916:A:OP2	24:BA:1916:A:C4	2.72	0.42
24:BA:1917:U:H5	24:BA:1918:A:C5	2.38	0.42
24:BA:2088:G:C6	24:BA:2089:U:N3	2.87	0.42
24:BA:2263:C:O2	24:BA:2263:C:H2'	2.18	0.42
24:BA:2284:C:C2	24:BA:2285:C:C5	3.07	0.42
24:BA:2357:U:H2'	24:BA:2358:G:O5'	2.18	0.42
24:BA:2353:G:C6	24:BA:2365:G:C2	3.08	0.42
24:BA:2345:G:N3	24:BA:2381:C:H2'	2.34	0.42
24:BA:2491:U:C5	24:BA:2492:U:C5'	3.00	0.42
24:BA:2518:A:H5''	24:BA:2519:U:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2531:A:O2'	24:BA:2532:G:C5'	2.66	0.42
24:BA:253:C:O2	24:BA:253:C:C2'	2.67	0.42
24:BA:2543:G:C6	24:BA:2544:G:N1	2.88	0.42
24:BA:2553:G:H8	24:BA:2582:G:H2'	1.84	0.42
24:BA:2626:C:O5'	24:BA:2626:C:C6	2.71	0.42
24:BA:2666:C:C3'	24:BA:2667:C:H5'	2.48	0.42
24:BA:2718:G:H2'	24:BA:2719:G:O5'	2.19	0.42
24:BA:2737:G:C4	24:BA:2738:A:N7	2.87	0.42
24:BA:2781:A:H2'	24:BA:2782:G:C3'	2.49	0.42
24:BA:2782:G:P	24:BA:2782:G:O4'	2.77	0.42
24:BA:2792:G:N2	24:BA:2793:G:C5	2.87	0.42
24:BA:2848:G:N1	24:BA:2867:G:N3	2.66	0.42
24:BA:2853:C:C2	24:BA:2854:G:C8	3.07	0.42
24:BA:300:A:H3'	24:BA:300:A:C8	2.53	0.42
24:BA:303:U:C2'	24:BA:304:G:C5'	2.97	0.42
24:BA:450:G:O6	24:BA:453:C:O5'	2.37	0.42
24:BA:582:G:N2	24:BA:1259:G:C4	2.87	0.42
24:BA:633:A:H5''	24:BA:634:C:OP2	2.20	0.42
24:BA:693:C:N4	24:BA:770:G:O6	2.52	0.42
24:BA:824:A:C3'	24:BA:825:C:C6	3.02	0.42
24:BA:861:A:C5	24:BA:862:G:C8	3.07	0.42
24:BA:861:A:N6	24:BA:916:G:N2	2.32	0.42
25:BB:38:C:O5'	25:BB:38:C:C6	2.72	0.42
25:BB:85:G:C4	25:BB:86:G:C8	3.08	0.42
27:BD:105:ILE:CG1	27:BD:106:ILE:HG12	2.22	0.42
27:BD:10:THR:N	27:BD:11:PRO:HD2	2.34	0.42
24:BA:1820:U:C1'	27:BD:202:LYS:CG	2.97	0.42
27:BD:6:PHE:O	27:BD:27:THR:CA	2.44	0.42
28:BE:22:PRO:HA	28:BE:185:LYS:N	2.34	0.42
28:BE:34:VAL:HG11	28:BE:36:ARG:CZ	2.49	0.42
24:BA:600:G:H4'	29:BF:105:VAL:CG1	2.48	0.42
29:BF:173:VAL:HG22	29:BF:174:VAL:N	2.33	0.42
30:BG:33:ARG:CB	30:BG:33:ARG:HH21	2.32	0.42
30:BG:38:VAL:C	30:BG:39:ILE:HD12	2.38	0.42
30:BG:53:LEU:O	30:BG:68:PRO:CB	2.67	0.42
30:BG:80:PHE:CG	30:BG:81:LYS:N	2.87	0.42
30:BG:93:THR:O	30:BG:94:LEU:C	2.58	0.42
31:BH:4:ILE:CD1	31:BH:4:ILE:N	2.80	0.42
31:BH:8:PRO:CA	31:BH:51:ARG:CZ	2.97	0.42
32:BK:41:GLU:O	32:BK:45:LYS:CB	2.68	0.42
32:BK:9:LEU:O	32:BK:10:GLU:CB	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:27:LEU:HD21	33:BL:57:ILE:HD11	2.01	0.42
33:BL:55:VAL:HG22	33:BL:69:THR:CG2	2.46	0.42
34:BM:111:PRO:C	34:BM:114:ARG:HB3	2.35	0.42
34:BM:35:ARG:NH1	34:BM:48:MET:CE	2.78	0.42
35:BN:53:LYS:HG3	35:BN:55:GLY:N	2.34	0.42
36:BO:78:PRO:CG	36:BO:115:LEU:O	2.67	0.42
36:BO:130:PHE:C	36:BO:134:ALA:HB3	2.39	0.42
37:BP:125:LEU:HB3	37:BP:126:PRO:CD	2.50	0.42
37:BP:37:LEU:HB2	37:BP:129:THR:HA	2.01	0.42
37:BP:37:LEU:HB3	37:BP:38:GLU:OE2	2.18	0.42
38:BQ:25:ALA:O	38:BQ:29:LEU:CG	2.36	0.42
39:BR:72:ALA:O	39:BR:73:LEU:C	2.57	0.42
40:BS:26:ASP:CA	40:BS:100:TYR:CE2	3.00	0.42
40:BS:20:PRO:HA	40:BS:22:PHE:CE1	2.54	0.42
41:BT:16:LYS:HG2	41:BT:20:LEU:CD2	2.46	0.42
41:BT:28:ARG:HA	41:BT:31:SER:OG	2.19	0.42
41:BT:88:ILE:HB	42:BU:52:VAL:HA	2.01	0.42
42:BU:3:ALA:CB	42:BU:44:LYS:CE	2.97	0.42
24:BA:565:C:OP2	42:BU:82:ARG:HA	2.18	0.42
42:BU:93:GLU:OE2	42:BU:95:LEU:CD2	2.66	0.42
43:BV:20:VAL:HG21	43:BV:47:VAL:HG11	2.01	0.42
43:BV:22:ASP:HA	43:BV:75:TYR:CE2	2.54	0.42
44:BW:18:TYR:HA	44:BW:21:PHE:CE1	2.53	0.42
45:BX:12:THR:HA	45:BX:73:ARG:NH2	2.33	0.42
45:BX:29:GLU:CD	45:BX:32:PRO:HG2	2.37	0.42
45:BX:67:LEU:HD12	45:BX:71:LYS:NZ	2.34	0.42
45:BX:8:LYS:HE3	45:BX:28:LYS:HD2	2.00	0.42
45:BX:98:VAL:C	45:BX:99:CYS:SG	2.96	0.42
46:BY:102:LEU:O	46:BY:123:ASP:O	2.36	0.42
46:BY:1:MET:HE2	46:BY:59:LEU:HD22	2.01	0.42
46:BY:17:ALA:O	46:BY:20:ARG:CB	2.68	0.42
46:BY:55:HIS:ND1	46:BY:55:HIS:N	2.67	0.42
47:BZ:74:ARG:C	47:BZ:76:GLY:N	2.71	0.42
32:BK:93:THR:HG21	32:BK:95:LYS:HB3	1.98	0.42
26:BC:99:ILE:O	26:BC:103:ILE:HG13	2.19	0.42
26:BC:156:ILE:HA	26:BC:160:ARG:CG	2.49	0.42
26:BC:68:LEU:HD22	26:BC:157:LYS:CA	2.46	0.42
1:AA:342:C:C2	1:AA:348:G:C2	3.06	0.42
24:BA:1483:G:N2	24:BA:1507:A:O2'	2.53	0.42
24:BA:1587:A:H2'	24:BA:1588:C:H6	1.80	0.42
39:BR:33:LYS:CD	39:BR:54:LEU:HD21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1767:C:N4	24:BA:1768:U:C4	2.87	0.42
16:AQ:9:LYS:HD3	16:AQ:9:LYS:C	2.39	0.42
1:AA:1080:A:N7	1:AA:1081:G:C1'	2.82	0.42
1:AA:1155:G:C6	1:AA:1156:G:C6	3.07	0.42
1:AA:1223:C:C6	1:AA:1223:C:H3'	2.53	0.42
1:AA:1317:C:OP1	1:AA:1317:C:C6	2.72	0.42
1:AA:1339:A:C3'	1:AA:1340:A:H5'	2.49	0.42
1:AA:1341:U:H5'	3:AC:32:U:H5'	1.99	0.42
1:AA:1424:C:H2'	1:AA:1425:U:O5'	2.18	0.42
1:AA:1433:A:N1	1:AA:1434:A:N3	2.67	0.42
1:AA:194:C:O2'	22:AW:68:LYS:NZ	2.38	0.42
1:AA:217:C:C4	1:AA:218:C:C5	3.07	0.42
1:AA:40:C:H2'	1:AA:41:G:O5'	2.20	0.42
1:AA:455:C:O5'	1:AA:455:C:C6	2.73	0.42
1:AA:738:C:C4	1:AA:739:C:N4	2.88	0.42
1:AA:843:U:C3'	1:AA:848:C:C5'	2.97	0.42
1:AA:855:G:H2'	1:AA:856:C:C5'	2.49	0.42
1:AA:872:A:C2	1:AA:874:G:N7	2.87	0.42
1:AA:872:A:N1	1:AA:874:G:C5	2.87	0.42
1:AA:91:C:N3	1:AA:92:G:N7	2.67	0.42
1:AA:921:U:H2'	1:AA:922:G:H8	1.83	0.42
1:AA:956:U:OP2	1:AA:956:U:C6	2.72	0.42
1:AA:977:A:C4'	1:AA:982:U:O4	2.66	0.42
3:AC:18:G:C6	3:AC:57:G:C6	3.08	0.42
4:AE:135:GLN:O	4:AE:139:LYS:HB3	2.19	0.42
4:AE:167:PRO:C	4:AE:169:LYS:N	2.72	0.42
4:AE:88:ALA:O	4:AE:222:ILE:HD13	2.19	0.42
4:AE:82:ARG:N	4:AE:92:TYR:HE1	2.16	0.42
5:AF:77:ILE:CD1	5:AF:103:VAL:HG21	2.45	0.42
5:AF:191:THR:HB	5:AF:193:TYR:CE2	2.53	0.42
5:AF:50:ALA:CA	5:AF:72:LYS:HD2	2.49	0.42
6:AG:152:SER:C	6:AG:154:ASN:ND2	2.72	0.42
6:AG:26:CYS:CA	6:AG:31:CYS:HB3	2.40	0.42
7:AH:107:ARG:HH11	7:AH:107:ARG:HB3	1.84	0.42
7:AH:11:ILE:CG2	7:AH:12:LEU:N	2.66	0.42
7:AH:124:GLY:O	7:AH:126:ARG:N	2.52	0.42
7:AH:144:THR:C	7:AH:146:ALA:N	2.68	0.42
9:AJ:121:ALA:HB1	9:AJ:125:MET:CE	2.48	0.42
9:AJ:66:VAL:HG12	9:AJ:70:LYS:CE	2.43	0.42
10:AK:118:VAL:C	10:AK:119:LEU:HD22	2.40	0.42
10:AK:9:MET:HE2	10:AK:13:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:46:LYS:HZ2	10:AK:64:LYS:CA	2.18	0.42
10:AK:96:GLY:O	10:AK:97:VAL:O	2.38	0.42
1:AA:1231:G:OP2	11:AL:127:LYS:HE2	2.19	0.42
13:AN:60:ALA:O	13:AN:61:ALA:C	2.58	0.42
13:AN:71:LYS:O	13:AN:74:ALA:CB	2.62	0.42
14:AO:53:ARG:NH2	14:AO:92:ASP:HB3	2.34	0.42
14:AO:7:ILE:O	14:AO:8:ASN:C	2.58	0.42
15:AP:83:ASP:O	15:AP:84:ILE:O	2.37	0.42
16:AQ:4:LYS:O	16:AQ:6:LEU:N	2.53	0.42
17:AR:29:VAL:HG21	17:AR:81:LEU:CD1	2.38	0.42
18:AS:57:ARG:O	18:AS:60:LEU:N	2.52	0.42
19:AT:19:VAL:HG21	19:AT:73:VAL:HG21	2.01	0.42
20:AU:59:SER:O	20:AU:62:GLU:N	2.51	0.42
21:AV:20:LEU:C	21:AV:21:GLU:HG2	2.39	0.42
22:AW:61:SER:O	22:AW:65:LYS:HG2	2.19	0.42
1:AA:194:C:H4'	22:AW:68:LYS:HE2	2.00	0.42
1:AA:263:A:H5''	22:AW:75:ASN:HD21	1.83	0.42
48:B1:26:GLU:HA	48:B1:29:GLU:CG	2.50	0.42
48:B1:50:ARG:CB	48:B1:54:ARG:HH12	2.30	0.42
24:BA:928:G:O2'	49:B2:43:ILE:CD1	2.67	0.42
50:B3:10:VAL:CG2	50:B3:60:GLN:HE22	2.31	0.42
53:B6:8:ASN:OD1	53:B6:10:ARG:HB2	2.19	0.42
53:B6:17:GLY:O	53:B6:18:PHE:C	2.57	0.42
54:B7:26:LYS:C	54:B7:28:GLY:H	2.23	0.42
54:B7:50:LEU:O	54:B7:51:ALA:HB3	2.20	0.42
24:BA:1150:C:H2'	24:BA:1151:G:O4'	2.20	0.42
24:BA:1385:G:C5	24:BA:1386:C:C5	3.07	0.42
24:BA:1399:C:OP1	44:BW:53:LYS:NZ	2.52	0.42
24:BA:146:G:C2'	24:BA:147:U:H5''	2.49	0.42
24:BA:1449:A:P	24:BA:1543:A:N1	2.91	0.42
24:BA:1673:U:O2'	24:BA:1674:G:OP1	2.37	0.42
24:BA:1689:A:N6	24:BA:1700:A:N3	2.66	0.42
24:BA:1707:G:C4	24:BA:1708:C:C6	3.07	0.42
24:BA:1806:C:H2'	24:BA:1807:G:H5'	2.02	0.42
24:BA:1858:G:C6	24:BA:1883:G:N1	2.87	0.42
24:BA:1917:U:C3'	24:BA:1917:U:H6	2.30	0.42
24:BA:1997:G:N2	24:BA:1998:G:C4	2.87	0.42
24:BA:1996:C:C2'	24:BA:1997:G:O5'	2.68	0.42
24:BA:203:C:C6	24:BA:204:A:C8	3.07	0.42
24:BA:2042:A:H2'	24:BA:2043:C:OP2	2.19	0.42
24:BA:2047:U:C2	24:BA:2048:G:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2286:A:OP2	52:B5:27:LYS:CE	2.67	0.42
24:BA:2304:G:O6	24:BA:2313:C:N4	2.52	0.42
24:BA:2345:G:H21	24:BA:2381:C:H2'	1.84	0.42
24:BA:2346:A:C2	24:BA:2383:G:C2	3.07	0.42
24:BA:241:A:H8	24:BA:243:U:C2	2.37	0.42
24:BA:2553:G:O5'	24:BA:2554:U:OP2	2.36	0.42
24:BA:2644:G:C6	24:BA:2645:G:C2	3.07	0.42
24:BA:2685:G:O3'	35:BN:66:LYS:NZ	2.49	0.42
24:BA:2709:G:C2'	24:BA:2710:C:O5'	2.64	0.42
24:BA:2887:U:N3	24:BA:2888:C:C5	2.87	0.42
24:BA:301:G:C6	24:BA:317:G:C6	3.08	0.42
24:BA:300:A:C5	24:BA:334:C:H4'	2.54	0.42
24:BA:292:C:H41	24:BA:346:A:H62	1.67	0.42
24:BA:35:G:H5'	24:BA:455:C:N3	2.34	0.42
24:BA:37:C:H2'	24:BA:38:A:C8	2.54	0.42
24:BA:449:A:P	29:BF:85:GLY:HA2	2.59	0.42
24:BA:482:A:N6	24:BA:506:G:C6	2.87	0.42
24:BA:594:U:C2	24:BA:595:C:C5	3.07	0.42
24:BA:623:G:P	36:BO:105:LEU:CD2	3.03	0.42
24:BA:636:G:H4'	24:BA:638:G:HO2'	1.83	0.42
24:BA:727:A:N1	24:BA:729:G:C5	2.87	0.42
24:BA:73:A:H8	24:BA:73:A:O5'	2.02	0.42
24:BA:823:G:N3	24:BA:823:G:C2'	2.80	0.42
24:BA:885:C:H41	24:BA:889:C:H6	1.67	0.42
24:BA:900:A:C2'	24:BA:901:A:C5'	2.97	0.42
24:BA:969:U:H2'	24:BA:970:C:C5'	2.50	0.42
24:BA:973:A:C1'	24:BA:1188:U:C5	3.02	0.42
27:BD:149:PRO:C	27:BD:151:LYS:H	2.21	0.42
27:BD:132:PRO:CD	27:BD:190:TYR:CZ	3.02	0.42
27:BD:27:THR:HG22	27:BD:29:PRO:CG	2.49	0.42
24:BA:1816:G:OP2	27:BD:43:ARG:CZ	2.67	0.42
28:BE:117:MET:CG	28:BE:136:ARG:NE	2.68	0.42
24:BA:2053:G:H4'	28:BE:145:LYS:NZ	2.34	0.42
28:BE:5:LEU:HD13	28:BE:197:ILE:HA	1.99	0.42
29:BF:153:SER:N	29:BF:190:GLU:HG3	2.30	0.42
30:BG:125:PHE:HA	30:BG:132:ASN:HB2	1.96	0.42
30:BG:110:ALA:CB	30:BG:139:LEU:CG	2.90	0.42
30:BG:157:ILE:CG1	30:BG:158:ALA:H	2.28	0.42
24:BA:2311:A:H2'	30:BG:43:LEU:CD2	2.49	0.42
31:BH:105:LEU:O	31:BH:113:VAL:CG2	2.67	0.42
31:BH:23:ARG:NH2	31:BH:35:VAL:C	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BH:41:MET:SD	31:BH:64:LEU:CD2	3.06	0.42
31:BH:45:VAL:CG1	31:BH:50:VAL:HG13	2.49	0.42
32:BK:16:GLY:C	32:BK:17:GLN:HG3	2.40	0.42
34:BM:23:LEU:N	34:BM:23:LEU:HD23	2.34	0.42
34:BM:42:TRP:HA	34:BM:47:ALA:HB1	2.01	0.42
34:BM:96:GLU:HG2	34:BM:97:ARG:N	2.32	0.42
35:BN:106:LEU:O	35:BN:109:LYS:HG3	2.20	0.42
24:BA:1665:A:H4'	35:BN:1:MET:H1	1.84	0.42
36:BO:124:LYS:CD	36:BO:142:GLY:O	2.66	0.42
37:BP:132:VAL:HB	37:BP:133:ARG:CZ	2.49	0.42
37:BP:89:ASN:HB3	37:BP:91:GLU:OE1	2.19	0.42
38:BQ:117:VAL:HG22	38:BQ:117:VAL:O	2.18	0.42
39:BR:19:LYS:O	39:BR:20:ARG:O	2.37	0.42
39:BR:3:ARG:O	39:BR:7:TYR:HB2	2.18	0.42
39:BR:58:LEU:C	39:BR:60:GLY:N	2.72	0.42
40:BS:24:PRO:CG	40:BS:25:GLY:N	2.73	0.42
40:BS:34:VAL:CG2	40:BS:36:GLU:HB2	2.45	0.42
41:BT:33:ARG:O	41:BT:34:LYS:C	2.57	0.42
24:BA:531:C:H42	41:BT:38:THR:HG22	1.83	0.42
41:BT:66:ASN:HB3	41:BT:70:ARG:HD3	2.01	0.42
34:BM:42:TRP:HZ3	41:BT:71:GLN:NE2	2.17	0.42
41:BT:95:LEU:HD23	41:BT:95:LEU:H	1.82	0.42
41:BT:94:ASN:O	41:BT:97:ASP:HB2	2.19	0.42
42:BU:40:LEU:CA	42:BU:54:GLY:CA	2.86	0.42
43:BV:25:ARG:NE	43:BV:75:TYR:CE2	2.87	0.42
44:BW:25:LYS:HG2	44:BW:82:GLN:HB2	2.01	0.42
44:BW:39:ILE:CG2	44:BW:54:VAL:CG1	2.96	0.42
44:BW:39:ILE:CB	44:BW:54:VAL:HG11	2.46	0.42
44:BW:66:LEU:HG	44:BW:70:LEU:HA	2.01	0.42
46:BY:138:GLU:C	46:BY:139:VAL:HG23	2.39	0.42
46:BY:139:VAL:HG11	46:BY:155:LEU:O	2.19	0.42
46:BY:122:ARG:HB2	46:BY:171:ILE:HA	2.01	0.42
32:BK:115:ALA:O	32:BK:116:LEU:HB2	2.19	0.42
32:BK:125:GLU:HB3	32:BK:143:SER:CA	2.48	0.42
3:AD:7:A:N6	3:AD:49:C:C4	2.87	0.42
3:AD:55:U:C6	3:AD:55:U:C3'	3.02	0.42
26:BC:102:LYS:HE3	26:BC:107:TRP:HB3	2.01	0.42
26:BC:114:VAL:HG12	26:BC:144:THR:HA	2.01	0.42
26:BC:120:MET:CG	26:BC:145:VAL:HG13	2.48	0.42
26:BC:190:ARG:O	26:BC:191:ALA:C	2.57	0.42
26:BC:22:ILE:HD11	26:BC:226:PRO:CA	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:23:ASP:O	26:BC:24:GLU:C	2.57	0.42
26:BC:40:THR:HB	26:BC:217:THR:OG1	2.19	0.42
26:BC:74:VAL:HG12	26:BC:114:VAL:HG22	2.00	0.42
2:A1:5:U:O2	2:A1:6:U:H5	2.01	0.42
52:B5:54:ILE:HG23	52:B5:54:ILE:OXT	2.19	0.42
33:BL:62:ASP:O	33:BL:63:ARG:HB2	2.19	0.42
1:AA:513:C:O5'	1:AA:513:C:H6	2.02	0.42
24:BA:1231:G:C5	24:BA:1232:G:N7	2.87	0.42
1:AA:1048:G:O2'	1:AA:1049:U:O3'	2.23	0.42
1:AA:1057:G:C2'	1:AA:1058:G:O5'	2.67	0.42
1:AA:1059:C:C4	1:AA:1060:C:C5	3.06	0.42
1:AA:1095:U:N3	1:AA:1096:C:C4	2.87	0.42
1:AA:1116:C:C2	1:AA:1117:G:C8	3.07	0.42
1:AA:1243:C:N3	1:AA:1244:C:C5	2.87	0.42
1:AA:1297:C:H5'	1:AA:1298:C:OP1	2.19	0.42
1:AA:129(A):G:C4'	1:AA:130:A:O5'	2.63	0.42
1:AA:134:A:C8	1:AA:134:A:O5'	2.72	0.42
1:AA:1352:C:N3	1:AA:1371:G:C6	2.87	0.42
1:AA:1405:G:O2'	1:AA:1519:A:H5'	2.19	0.42
1:AA:1449:C:H2'	1:AA:1450:U:C5'	2.50	0.42
1:AA:15:G:N3	1:AA:16:A:C8	2.88	0.42
1:AA:186(A):C:O2'	1:AA:186(B):C:H5'	2.19	0.42
1:AA:129(A):G:C2	1:AA:191(A):G:C8	3.07	0.42
1:AA:193:C:N3	1:AA:194:C:N4	2.67	0.42
1:AA:254:G:N2	19:AT:16:GLN:OE1	2.53	0.42
1:AA:254:G:N3	1:AA:255:G:C8	2.88	0.42
1:AA:270:A:C6	1:AA:271:C:C4	3.07	0.42
1:AA:293:G:C2	1:AA:294:U:C6	3.07	0.42
1:AA:323:U:C3'	1:AA:323:U:C6	3.01	0.42
1:AA:408:A:C4	1:AA:409:G:N7	2.88	0.42
1:AA:437:U:O2'	6:AG:123:HIS:ND1	2.44	0.42
1:AA:44:G:C2	1:AA:45:U:C1'	3.02	0.42
1:AA:509:A:N3	1:AA:543:C:O2'	2.39	0.42
1:AA:540:G:C6	1:AA:541:G:C6	3.07	0.42
1:AA:643:C:N3	1:AA:644:G:C8	2.86	0.42
1:AA:823:G:C6	1:AA:878:G:C6	3.08	0.42
1:AA:864:A:N6	1:AA:865:A:N6	2.67	0.42
1:AA:874:G:H2'	1:AA:875:C:H5'	2.01	0.42
1:AA:901:A:H2'	1:AA:902:G:O4'	2.19	0.42
1:AA:938:A:H2'	1:AA:939:G:O5'	2.19	0.42
3:AB:33:U:N3	3:AB:35:A:H5"	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:92:TYR:O	4:AE:152:PHE:CA	2.67	0.42
4:AE:177:ALA:CB	4:AE:184:VAL:HG22	2.49	0.42
4:AE:218:ALA:C	4:AE:220:ASP:N	2.71	0.42
4:AE:33:TYR:CD2	4:AE:43:ASP:HB2	2.53	0.42
5:AF:11:ARG:CA	5:AF:11:ARG:NE	2.82	0.42
5:AF:176:HIS:HB3	5:AF:177:THR:H	1.54	0.42
5:AF:180:ALA:O	5:AF:182:ILE:HG13	2.19	0.42
5:AF:34:LEU:O	5:AF:38:ARG:HG2	2.19	0.42
5:AF:40:ARG:C	5:AF:43:LEU:HB3	2.38	0.42
5:AF:58:GLU:O	5:AF:65:ALA:N	2.51	0.42
5:AF:95:THR:HB	5:AF:97:LYS:HE2	2.01	0.42
5:AF:64:VAL:HB	5:AF:99:VAL:CG1	2.49	0.42
6:AG:118:ARG:HG3	6:AG:136:PRO:HB3	1.99	0.42
6:AG:30:LYS:HZ3	6:AG:35:ARG:CD	2.33	0.42
6:AG:32:ALA:HA	6:AG:37:PRO:HA	2.02	0.42
6:AG:77:ASN:O	6:AG:78:LEU:C	2.57	0.42
7:AH:141:GLN:C	7:AH:142:LEU:CG	2.87	0.42
7:AH:50:GLU:CB	7:AH:53:LEU:HD23	2.48	0.42
7:AH:89:ILE:HD11	7:AH:122:GLU:OE2	2.19	0.42
9:AJ:72:ARG:NH2	9:AJ:138:LYS:NZ	2.63	0.42
9:AJ:78:ARG:C	9:AJ:84:ASN:HA	2.25	0.42
10:AK:120:THR:O	10:AK:123:GLU:OE1	2.38	0.42
11:AL:27:THR:CG2	11:AL:30:GLY:H	2.32	0.42
13:AN:114:VAL:CG2	13:AN:115:PRO:CD	2.98	0.42
13:AN:87:THR:HG22	13:AN:91:ARG:CZ	2.49	0.42
14:AO:39:VAL:HG11	14:AO:41:ARG:HH22	1.83	0.42
14:AO:78:GLN:O	14:AO:79:GLU:C	2.55	0.42
14:AO:82:VAL:HG12	14:AO:105:TYR:HD1	1.84	0.42
14:AO:9:GLN:O	14:AO:10:LEU:C	2.57	0.42
15:AP:56:LEU:HG	15:AP:56:LEU:H	1.53	0.42
15:AP:60:VAL:HG13	15:AP:64:TRP:CB	2.46	0.42
1:AA:740:U:OP2	17:AR:2:PRO:HB3	2.20	0.42
1:AA:765:G:OP1	17:AR:50:HIS:CD2	2.72	0.42
17:AR:8:LYS:HE2	17:AR:9:GLN:NE2	2.35	0.42
18:AS:35:LYS:HZ2	18:AS:37:GLY:CA	2.32	0.42
19:AT:43:LEU:HD11	19:AT:69:LYS:HB2	2.00	0.42
1:AA:255:G:OP1	19:AT:69:LYS:CE	2.67	0.42
21:AV:35:SER:O	21:AV:37:ARG:N	2.53	0.42
21:AV:41:VAL:O	21:AV:44:MET:HB2	2.19	0.42
54:B7:17:THR:C	54:B7:19:SER:N	2.73	0.42
54:B7:26:LYS:HD2	54:B7:45:GLY:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:12:ASP:C	55:B8:13:LYS:HG3	2.40	0.42
55:B8:14:CYS:SG	55:B8:32:HIS:CD2	3.13	0.42
24:BA:1044:G:C4	24:BA:1048:A:C8	3.07	0.42
24:BA:1044:G:C4'	24:BA:1047:G:HO2'	2.31	0.42
24:BA:1063:G:C5	24:BA:1064:C:N4	2.86	0.42
24:BA:1076:C:OP2	24:BA:1076:C:H6	2.01	0.42
24:BA:1138:G:N2	24:BA:1139:G:C1'	2.72	0.42
24:BA:1137:G:C2'	24:BA:1138:G:O5'	2.67	0.42
24:BA:1160:G:OP2	24:BA:1160:G:H8	2.03	0.42
24:BA:974:G:H1'	24:BA:1186:G:C4	2.54	0.42
24:BA:1188:U:C2'	24:BA:1189:A:C5'	2.96	0.42
24:BA:1193:G:H2'	24:BA:1194:A:O4'	2.20	0.42
24:BA:1279:G:C6	24:BA:1280:G:C6	3.06	0.42
24:BA:1362:C:C4	24:BA:1363:C:C5	3.07	0.42
24:BA:1444:G:C2	24:BA:1445:C:O2	2.72	0.42
24:BA:1450:C:C2'	24:BA:1451:C:OP2	2.66	0.42
24:BA:1521:G:C3'	24:BA:1522:G:C5'	2.94	0.42
24:BA:1543:A:C8	24:BA:1544:C:H1'	2.54	0.42
24:BA:1410:G:N2	24:BA:1593:G:C4	2.88	0.42
24:BA:1670:C:P	24:BA:1671:U:C5	3.00	0.42
24:BA:1460:A:N6	24:BA:1732:A:C2	2.87	0.42
24:BA:172:C:C6	24:BA:173:G:N7	2.88	0.42
24:BA:1743:G:H3'	24:BA:1746:G:C8	2.34	0.42
24:BA:1818:U:H3	27:BD:155:LEU:H	1.67	0.42
24:BA:1919:A:OP2	24:BA:1920:C:C5	2.62	0.42
24:BA:1924:C:O2'	24:BA:1925:C:H5'	2.18	0.42
24:BA:1936:A:C1'	24:BA:1940:U:N3	2.82	0.42
24:BA:1951:U:C2	24:BA:1953:A:C5'	3.03	0.42
24:BA:2000:G:N1	24:BA:2001:A:C5	2.88	0.42
24:BA:2088:G:H2'	24:BA:2089:U:O4'	2.19	0.42
24:BA:215:G:H1'	24:BA:216:A:C5'	2.49	0.42
24:BA:2372:G:N3	24:BA:2372:G:H2'	2.34	0.42
24:BA:2418:A:C4	24:BA:2419:U:C6	3.07	0.42
24:BA:2509:G:N1	24:BA:2580:U:C2	2.87	0.42
24:BA:2511:U:C4	24:BA:2512:C:C4	3.07	0.42
24:BA:1953:A:O2'	24:BA:2559:C:O2'	2.22	0.42
24:BA:2563:U:H2'	24:BA:2565:A:OP2	2.19	0.42
24:BA:2603:G:H2'	24:BA:2604:U:C5'	2.49	0.42
24:BA:264:C:HO2'	24:BA:265:A:P	2.42	0.42
24:BA:2685:G:H4'	35:BN:66:LYS:NZ	2.34	0.42
24:BA:2706:G:H5'	24:BA:2852:G:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:270(X):G:C2	24:BA:270(Y):G:C1'	3.01	0.42
24:BA:2746:U:H5'	31:BH:139:GLN:CA	2.37	0.42
24:BA:2770:G:C2'	24:BA:2771:C:H5'	2.47	0.42
24:BA:2784:C:H2'	24:BA:2785:C:C6	2.51	0.42
24:BA:2785:C:C2	24:BA:2786:U:C5	3.07	0.42
24:BA:2816:C:O3'	51:B4:43:HIS:CE1	2.71	0.42
24:BA:2872:G:N2	24:BA:2873:A:C6	2.88	0.42
24:BA:316:C:H2'	24:BA:317:G:H8	1.85	0.42
24:BA:410:G:H5''	24:BA:411:G:P	2.60	0.42
24:BA:515:A:N7	24:BA:516:C:C5	2.87	0.42
24:BA:530:G:O2'	24:BA:532:A:P	2.76	0.42
24:BA:605:C:O2'	24:BA:606:U:H5'	2.19	0.42
24:BA:609:A:N6	24:BA:619:G:H21	2.16	0.42
24:BA:610:C:H2'	24:BA:611:C:C5	2.54	0.42
24:BA:640:C:N4	24:BA:647:G:N1	2.62	0.42
24:BA:663:G:OP1	36:BO:18:ARG:O	2.35	0.42
24:BA:703:U:H2'	24:BA:704:G:O4'	2.19	0.42
24:BA:754:C:H2'	24:BA:754:C:O2	2.18	0.42
24:BA:77:C:H6	24:BA:77:C:OP2	2.02	0.42
24:BA:785:G:O2'	24:BA:786:C:P	2.77	0.42
24:BA:866:A:H2'	24:BA:867:C:O5'	2.20	0.42
24:BA:956:G:H2'	24:BA:957:A:C8	2.54	0.42
25:BB:109:G:C2	25:BB:110:G:C5	3.07	0.42
25:BB:78:A:C4	25:BB:99:A:N6	2.86	0.42
27:BD:34:VAL:N	27:BD:104:TYR:HH	2.16	0.42
27:BD:105:ILE:HG13	27:BD:106:ILE:CD1	2.49	0.42
27:BD:144:ALA:O	27:BD:145:VAL:C	2.57	0.42
27:BD:160:GLY:O	27:BD:162:SER:N	2.52	0.42
27:BD:208:LYS:HB3	27:BD:211:ARG:CG	2.50	0.42
24:BA:783:A:C3'	27:BD:227:ASN:OD1	2.66	0.42
27:BD:258:LYS:CA	27:BD:261:LYS:NZ	2.71	0.42
27:BD:7:LYS:HD3	27:BD:9:TYR:CE1	2.55	0.42
28:BE:13:ARG:HG3	28:BE:22:PRO:HG3	1.98	0.42
28:BE:38:THR:O	28:BE:39:PRO:C	2.56	0.42
28:BE:49:LEU:CG	28:BE:76:ARG:O	2.67	0.42
28:BE:91:VAL:CG2	28:BE:180:ASN:ND2	2.82	0.42
29:BF:37:VAL:C	29:BF:184:TYR:HH	2.23	0.42
29:BF:154:VAL:HA	29:BF:191:ARG:O	2.18	0.42
29:BF:57:VAL:HG12	29:BF:58:ALA:N	2.35	0.42
29:BF:5:ALA:O	29:BF:7:TYR:CD1	2.73	0.42
24:BA:1257:C:HO2'	29:BF:84:VAL:HG23	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:92:VAL:HG13	30:BG:94:LEU:HD22	1.99	0.42
30:BG:96:ARG:HH11	30:BG:96:ARG:HB2	1.85	0.42
31:BH:97:ARG:O	31:BH:104:GLU:HG2	2.19	0.42
33:BL:41:PHE:O	33:BL:42:ASN:C	2.57	0.42
33:BL:79:ARG:HH21	33:BL:80:LYS:HE2	1.84	0.42
34:BM:51:PHE:HA	34:BM:119:ARG:O	2.19	0.42
34:BM:55:VAL:HG11	34:BM:127:ASP:HA	2.01	0.42
34:BM:39:ARG:HB2	34:BM:48:MET:SD	2.59	0.42
34:BM:48:MET:C	34:BM:50:ASP:N	2.67	0.42
34:BM:18:ALA:CB	34:BM:55:VAL:O	2.56	0.42
34:BM:72:TYR:CD2	34:BM:72:TYR:O	2.72	0.42
35:BN:22:ILE:HB	35:BN:40:VAL:HG11	2.01	0.42
37:BP:125:LEU:CD2	37:BP:125:LEU:H	2.31	0.42
37:BP:63:LYS:CD	37:BP:64:ILE:N	2.76	0.42
39:BR:24:LEU:HG	39:BR:41:ASP:CA	2.49	0.42
39:BR:32:LEU:HG	39:BR:97:ARG:HH12	1.83	0.42
40:BS:53:ARG:HH22	40:BS:101:PHE:CA	2.31	0.42
40:BS:72:VAL:O	40:BS:74:ARG:HD2	2.20	0.42
41:BT:65:ILE:HB	41:BT:76:TYR:OH	2.19	0.42
43:BV:36:LEU:CD1	43:BV:47:VAL:HB	2.48	0.42
44:BW:89:ILE:O	44:BW:92:LEU:HB2	2.18	0.42
45:BX:84:ARG:CG	45:BX:85:VAL:N	2.82	0.42
46:BY:12:GLY:O	46:BY:13:GLU:C	2.57	0.42
24:BA:896:A:OP1	46:BY:146:ILE:HG22	2.19	0.42
46:BY:4:ARG:HD3	46:BY:38:TYR:CA	2.49	0.42
32:BK:147:GLN:OE1	32:BK:148:GLU:N	2.53	0.42
24:BA:2175:C:C2	24:BA:2176:A:C8	3.08	0.42
1:AA:1018:C:O2'	1:AA:1019:C:H5'	2.19	0.42
34:BM:139:GLU:C	34:BM:140:VAL:HG23	2.38	0.42
14:AO:43:VAL:HG12	14:AO:44:THR:N	2.33	0.42
24:BA:2182:G:C4	24:BA:2183:C:C6	3.07	0.42
1:AA:1167:A:C8	1:AA:1167:A:OP1	2.72	0.42
1:AA:723:U:H6	2:A1:30:U:H4'	1.84	0.42
1:AA:1397:C:N4	2:A1:46:U:C5	2.87	0.42
1:AA:1073:U:C2	1:AA:1074:G:C8	3.07	0.42
1:AA:60:A:N6	1:AA:107:G:O2'	2.48	0.42
1:AA:1156:G:N3	1:AA:1179:A:N1	2.67	0.42
1:AA:1231:G:H2'	1:AA:1232:U:H6	1.84	0.42
1:AA:1305:G:OP1	23:AX:2:GLY:CA	2.66	0.42
1:AA:1307:U:C2	1:AA:1308:U:C6	3.07	0.42
1:AA:1347:G:H3'	11:AL:107:ARG:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:C2	1:AA:1349:A:C8	3.08	0.42
1:AA:1392:G:H2'	1:AA:1393:U:O4'	2.18	0.42
1:AA:1476:G:H2'	1:AA:1477:C:H6	1.79	0.42
1:AA:19:C:OP1	7:AH:86:ALA:HB1	2.20	0.42
1:AA:20:U:N3	1:AA:21:G:C5	2.88	0.42
1:AA:315:A:N1	1:AA:330:C:N1	2.67	0.42
1:AA:51:A:N1	1:AA:353:A:N1	2.67	0.42
1:AA:592:G:H2'	1:AA:593:G:C5'	2.45	0.42
1:AA:61:G:C6	1:AA:107:G:O6	2.72	0.42
1:AA:627:G:C2'	1:AA:628:G:O5'	2.68	0.42
1:AA:652:U:C5	1:AA:752:G:C2	3.08	0.42
1:AA:698:G:C2	1:AA:699:C:C2	3.08	0.42
1:AA:720:C:H4'	20:AU:50:ILE:CG2	2.49	0.42
1:AA:763:G:C2	1:AA:764:C:C6	3.07	0.42
1:AA:783:C:H2'	1:AA:784:C:H6	1.84	0.42
1:AA:80:G:H2'	1:AA:81:G:C1'	2.45	0.42
1:AA:828:A:H8	1:AA:829:G:C8	2.36	0.42
1:AA:894:G:HO2'	1:AA:895:G:H5'	1.82	0.42
1:AA:906:G:H5'	1:AA:907:A:OP2	2.20	0.42
1:AA:993:G:N2	1:AA:995:C:N4	2.68	0.42
3:AB:14:A:N6	3:AB:22:G:O2'	2.52	0.42
3:AC:40:C:H2'	3:AC:40:C:O2	2.19	0.42
3:AC:49:C:C2	3:AC:50:U:C5	3.08	0.42
4:AE:113:HIS:ND1	4:AE:116:GLU:OE1	2.51	0.42
4:AE:132:LYS:NZ	4:AE:132:LYS:CB	2.81	0.42
4:AE:204:ASN:HD22	4:AE:205:ASP:N	2.17	0.42
5:AF:182:ILE:HD11	5:AF:203:PHE:CE1	2.54	0.42
5:AF:54:ARG:O	5:AF:68:VAL:HG13	2.19	0.42
5:AF:66:VAL:O	5:AF:102:ASN:HB2	2.19	0.42
6:AG:125:HIS:HB3	6:AG:152:SER:CB	2.37	0.42
6:AG:146:ILE:C	6:AG:146:ILE:CD1	2.88	0.42
6:AG:181:MET:HB2	6:AG:181:MET:HE3	1.74	0.42
6:AG:188:LEU:O	6:AG:189:PRO:C	2.53	0.42
6:AG:207:TYR:O	6:AG:208:SER:C	2.57	0.42
6:AG:51:PRO:HG2	6:AG:51:PRO:O	2.19	0.42
7:AH:53:LEU:O	7:AH:57:LYS:CB	2.68	0.42
8:AI:46:ARG:NH2	20:AU:37:VAL:HG21	2.35	0.42
8:AI:78:GLU:HA	8:AI:81:ILE:HD12	2.02	0.42
10:AK:97:VAL:HG13	10:AK:98:LYS:HZ1	1.82	0.42
11:AL:10:ARG:O	11:AL:11:LYS:C	2.56	0.42
11:AL:8:GLY:O	11:AL:15:ALA:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:59:TYR:O	13:AN:62:GLN:CD	2.58	0.42
13:AN:83:ILE:CD1	13:AN:83:ILE:N	2.82	0.42
13:AN:65:ALA:CB	13:AN:98:LEU:CD2	2.94	0.42
13:AN:99:GLN:O	13:AN:102:GLY:N	2.52	0.42
14:AO:105:TYR:HB2	14:AO:106:ASP:H	1.57	0.42
14:AO:52:LEU:CD2	14:AO:52:LEU:N	2.79	0.42
15:AP:19:LEU:HD21	15:AP:30:ALA:HA	2.02	0.42
15:AP:52:GLU:HA	15:AP:55:ARG:CZ	2.48	0.42
15:AP:81:LEU:O	15:AP:84:ILE:HG13	2.19	0.42
18:AS:19:ILE:O	18:AS:36:ILE:O	2.37	0.42
1:AA:760:G:C2'	19:AT:103:GLY:HA3	2.49	0.42
14:AO:11:VAL:CG2	19:AT:32:TYR:HD1	2.32	0.42
19:AT:62:SER:HB3	19:AT:72:ARG:CD	2.48	0.42
1:AA:255:G:OP1	19:AT:69:LYS:HE2	2.18	0.42
20:AU:43:PHE:HD2	20:AU:56:THR:HG22	1.84	0.42
20:AU:60:GLY:C	20:AU:64:ARG:NH1	2.73	0.42
21:AV:25:LYS:C	21:AV:25:LYS:CD	2.82	0.42
21:AV:51:VAL:HG23	21:AV:60:VAL:CG2	2.49	0.42
1:AA:1320:C:C2	21:AV:72:GLY:HA3	2.55	0.42
48:B1:27:LEU:HD11	48:B1:48:LEU:CG	2.49	0.42
49:B2:9:VAL:HG13	49:B2:54:VAL:CA	2.37	0.42
50:B3:5:ILE:CD1	50:B3:10:VAL:N	2.81	0.42
51:B4:36:CYS:HB2	51:B4:37:LYS:CE	2.50	0.42
24:BA:126:A:C5'	53:B6:18:PHE:HD1	2.32	0.42
53:B6:31:LEU:C	53:B6:35:ARG:CD	2.87	0.42
24:BA:1008:C:C6	24:BA:1008:C:OP1	2.72	0.42
24:BA:1045:A:O4'	24:BA:1045:A:P	2.77	0.42
24:BA:104:U:O2'	24:BA:105:C:H5'	2.19	0.42
24:BA:1065:U:C2'	24:BA:1066:U:H5''	2.48	0.42
24:BA:117:G:C6	24:BA:119:A:N6	2.87	0.42
24:BA:1451:C:C5'	24:BA:1453:A:OP2	2.59	0.42
24:BA:1518:C:C2	24:BA:1519:G:O4'	2.72	0.42
24:BA:152:G:N1	24:BA:153:C:C2	2.88	0.42
24:BA:1568:G:OP1	27:BD:86:PRO:HG2	2.19	0.42
24:BA:1608:A:H2'	24:BA:1611:C:H41	1.84	0.42
24:BA:1657:C:N3	24:BA:1658:C:C5	2.87	0.42
24:BA:1669:A:H2'	24:BA:1670:C:C5'	2.44	0.42
24:BA:1687:G:H1'	24:BA:1702:G:H22	1.85	0.42
24:BA:1703:G:C2'	24:BA:1704:G:C5'	2.96	0.42
24:BA:1684:C:C2	24:BA:1705:G:N2	2.88	0.42
24:BA:1816:G:P	27:BD:43:ARG:NH2	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1861:G:N2	24:BA:1862:G:C1'	2.82	0.42
24:BA:1891:G:C6	24:BA:1892:C:C4	3.07	0.42
24:BA:1925:C:N3	24:BA:1929:G:N1	2.63	0.42
24:BA:1933:G:H21	24:BA:1974:C:C5'	2.08	0.42
24:BA:1945:G:C2'	24:BA:1946:U:O5'	2.68	0.42
24:BA:1952:A:H1'	24:BA:2560:C:O2'	2.20	0.42
24:BA:2043:C:H2'	24:BA:2044:C:O5'	2.18	0.42
24:BA:207:A:C2	24:BA:208:C:H1'	2.53	0.42
24:BA:2086:U:H3	24:BA:2233:U:H3	1.68	0.42
24:BA:2094:G:N7	24:BA:2095:C:C5	2.88	0.42
24:BA:2198:A:C2	32:BK:29:TYR:HD2	2.37	0.42
24:BA:954:G:O2'	24:BA:2274:A:C2	2.58	0.42
24:BA:2391:G:O6	24:BA:2425:A:H5''	2.19	0.42
24:BA:241:A:H3'	24:BA:241:A:N3	2.34	0.42
24:BA:2434:A:OP2	24:BA:2434:A:O4'	2.38	0.42
24:BA:2479:G:H2'	24:BA:2480:C:O4'	2.19	0.42
24:BA:570:G:N2	24:BA:2498:C:O2'	2.52	0.42
24:BA:2557:G:C4	24:BA:2558:C:C5	3.08	0.42
24:BA:2576:G:H3'	24:BA:2576:G:N3	2.34	0.42
24:BA:2699:C:H2'	24:BA:2700:C:C5'	2.49	0.42
24:BA:270(C):C:OP1	24:BA:365:C:C2'	2.67	0.42
24:BA:2781:A:C2'	24:BA:2782:G:O2'	2.57	0.42
24:BA:278:A:O2'	24:BA:279:C:O4'	2.35	0.42
24:BA:26:G:N2	24:BA:27:G:C2	2.87	0.42
24:BA:2879:C:O2	24:BA:2879:C:C2'	2.67	0.42
24:BA:2901:C:N3	24:BA:2902:C:C5	2.87	0.42
24:BA:511:U:H5	24:BA:512:G:C4	2.37	0.42
24:BA:522:G:C5	24:BA:523:C:C5	3.08	0.42
24:BA:601:C:O2'	24:BA:604:G:OP1	2.37	0.42
24:BA:625:G:N1	36:BO:100:LEU:HB3	2.34	0.42
24:BA:708:C:H2'	24:BA:709:U:C6	2.55	0.42
24:BA:769:G:N3	24:BA:770:G:C8	2.87	0.42
24:BA:7:G:O2'	24:BA:8:A:C5'	2.64	0.42
24:BA:800:A:N7	24:BA:802:A:O4'	2.52	0.42
24:BA:883:G:N2	24:BA:894:C:C2	2.88	0.42
24:BA:901:A:H2'	24:BA:902:C:C6	2.54	0.42
27:BD:65:ILE:CD1	27:BD:104:TYR:CB	2.96	0.42
27:BD:122:ASP:O	27:BD:123:ALA:O	2.37	0.42
27:BD:258:LYS:CG	27:BD:259:THR:N	2.82	0.42
27:BD:263:ARG:O	27:BD:266:SER:CB	2.63	0.42
27:BD:29:PRO:HG3	27:BD:82:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:90:ALA:HB2	27:BD:159:ALA:HB1	2.01	0.42
28:BE:104:VAL:HG22	28:BE:198:VAL:CA	2.50	0.42
28:BE:59:VAL:HB	28:BE:62:PRO:CG	2.49	0.42
29:BF:156:LEU:HA	29:BF:193:VAL:O	2.20	0.42
29:BF:29:ASN:ND2	29:BF:30:PRO:N	2.67	0.42
30:BG:4:ASP:OD1	30:BG:7:LEU:HD12	2.19	0.42
31:BH:25:LYS:HG3	31:BH:27:LYS:HG3	2.02	0.42
32:BK:27:ARG:O	32:BK:32:PRO:HD3	2.19	0.42
33:BL:79:ARG:HB2	33:BL:79:ARG:HE	1.62	0.42
34:BM:67:LEU:O	34:BM:68:GLU:CG	2.67	0.42
35:BN:100:GLY:HA2	35:BN:118:ALA:O	2.19	0.42
35:BN:98:VAL:CG2	35:BN:98:VAL:O	2.66	0.42
36:BO:74:GLU:N	36:BO:107:LYS:CE	2.83	0.42
36:BO:107:LYS:NZ	36:BO:111:ARG:N	2.67	0.42
24:BA:2415:G:P	36:BO:61:ARG:HD2	2.58	0.42
24:BA:245:G:P	36:BO:65:ARG:HH21	2.43	0.42
37:BP:118:LEU:HB3	37:BP:131:ILE:HD13	2.01	0.42
37:BP:27:VAL:HG22	37:BP:28:ALA:O	2.18	0.42
37:BP:40:ALA:HA	37:BP:98:LYS:CG	2.40	0.42
38:BQ:54:LEU:HG	38:BQ:57:ARG:HD3	2.01	0.42
38:BQ:5:LYS:NZ	38:BQ:6:SER:CA	2.82	0.42
39:BR:71:ARG:HA	39:BR:104:GLY:O	2.20	0.42
39:BR:18:ILE:HD12	39:BR:18:ILE:N	2.35	0.42
40:BS:64:ARG:O	40:BS:65:LYS:O	2.37	0.42
40:BS:82:LEU:HA	40:BS:82:LEU:HD23	1.81	0.42
41:BT:86:ALA:O	41:BT:90:VAL:CG2	2.68	0.42
42:BU:20:LEU:HD13	42:BU:95:LEU:HD13	2.01	0.42
43:BV:49:LYS:HA	43:BV:49:LYS:HE2	2.00	0.42
24:BA:1399:C:P	44:BW:25:LYS:HZ3	2.43	0.42
44:BW:12:VAL:HA	44:BW:29:TRP:CD1	2.54	0.42
44:BW:31:HIS:HE1	44:BW:33:LYS:HD2	1.83	0.42
46:BY:153:SER:OG	46:BY:154:ASP:N	2.52	0.42
46:BY:18:LEU:C	46:BY:23:LYS:O	2.57	0.42
46:BY:78:LYS:CG	46:BY:79:ARG:N	2.82	0.42
32:BK:67:ARG:O	32:BK:71:ILE:HG13	2.19	0.42
3:AD:7:A:C6	3:AD:49:C:C6	3.07	0.42
24:BA:2126:A:N1	24:BA:2162:G:O2'	2.40	0.42
24:BA:2140:C:O2'	24:BA:2141:G:H5'	2.19	0.42
26:BC:10:LEU:HD21	26:BC:220:PRO:CG	2.49	0.42
26:BC:13:LYS:HB2	26:BC:32:LEU:HD23	2.01	0.42
26:BC:64:LEU:CG	26:BC:161:ILE:HG12	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:47:LEU:HD23	26:BC:169:GLY:O	2.18	0.42
26:BC:73:ARG:CB	26:BC:93:TYR:HE2	2.32	0.42
48:B1:7:GLU:O	48:B1:10:LYS:HG2	2.18	0.42
24:BA:1482:U:H1'	24:BA:1512:G:H22	1.85	0.42
24:BA:1588:C:C2	24:BA:1589:C:C5	3.07	0.42
24:BA:363(A):A:N3	24:BA:363(A):A:C2'	2.80	0.42
24:BA:489:G:C2	24:BA:491:G:C4	3.07	0.42
31:BH:20:ALA:HB3	31:BH:21:PRO:HD2	1.99	0.42
48:B1:47:ASP:OD2	48:B1:47:ASP:N	2.52	0.42
29:BF:175:THR:OG1	29:BF:175:THR:O	2.33	0.42
1:AA:1539:C:C4	2:A1:26:G:C2	3.08	0.42
2:A1:37:U:C2	2:A1:38:U:O4	2.73	0.42
1:AA:1088:G:N2	1:AA:1089:G:H1'	2.34	0.42
1:AA:1261:A:C2	1:AA:1262:C:N3	2.88	0.42
1:AA:1326:C:C2	1:AA:1327:C:C5	3.07	0.42
1:AA:1331:G:C4'	1:AA:1331:G:OP1	2.68	0.42
1:AA:1408:A:H2	1:AA:1495:U:C5	2.28	0.42
1:AA:248:C:H4'	1:AA:283:C:H1'	2.01	0.42
1:AA:283:C:C2	1:AA:284:G:C8	3.07	0.42
1:AA:293:G:N3	1:AA:294:U:C6	2.88	0.42
1:AA:299:G:C4	1:AA:300:A:N6	2.88	0.42
1:AA:425:G:H2'	1:AA:426:G:H5'	2.01	0.42
1:AA:41:G:C5	1:AA:42:G:N7	2.88	0.42
1:AA:723:U:C2'	1:AA:723:U:O2	2.68	0.42
1:AA:724:G:N2	1:AA:725:G:N9	2.68	0.42
1:AA:755:G:OP2	17:AR:65:ARG:HD2	2.19	0.42
1:AA:854:G:OP2	1:AA:871:U:O2	2.38	0.42
1:AA:965:A:N6	15:AP:126:LYS:OXT	2.52	0.42
1:AA:996:A:N1	1:AA:997:U:C4	2.88	0.42
3:AB:20:U:H3'	3:AB:21:A:H5''	1.99	0.42
3:AC:10:G:C6	3:AC:11:C:N4	2.88	0.42
3:AD:2:C:H2'	3:AD:3:C:H6	1.80	0.42
4:AE:138:LEU:H	4:AE:138:LEU:HG	1.68	0.42
4:AE:140:HIS:C	4:AE:143:GLU:HB3	2.39	0.42
4:AE:95:GLN:CD	4:AE:148:TYR:HB3	2.35	0.42
4:AE:84:GLU:CA	4:AE:84:GLU:OE2	2.68	0.42
5:AF:29:TYR:CD2	5:AF:29:TYR:O	2.60	0.42
6:AG:101:LEU:HD21	6:AG:121:VAL:CG1	2.50	0.42
7:AH:109:ILE:HD11	7:AH:136:MET:SD	2.59	0.42
7:AH:129:ILE:O	7:AH:132:ALA:N	2.53	0.42
7:AH:96:PRO:C	7:AH:98:THR:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:101:LEU:O	9:AJ:102:ARG:C	2.58	0.42
9:AJ:38:LEU:CA	9:AJ:41:ARG:HG3	2.45	0.42
9:AJ:41:ARG:CG	9:AJ:41:ARG:HH11	2.32	0.42
9:AJ:51:GLN:HE22	9:AJ:58:PRO:CD	2.33	0.42
9:AJ:76:ARG:O	9:AJ:156:TRP:CZ2	2.72	0.42
10:AK:111:ILE:HD12	10:AK:136:GLU:HA	2.00	0.42
10:AK:67:PRO:C	10:AK:68:ARG:O	2.56	0.42
10:AK:69:ARG:NH1	10:AK:69:ARG:HG3	2.34	0.42
11:AL:17:VAL:HG11	11:AL:81:ILE:HG12	2.02	0.42
11:AL:33:PHE:CE2	11:AL:43:ALA:O	2.73	0.42
11:AL:40:LEU:HB3	11:AL:42:ARG:CB	2.29	0.42
12:AM:16:LEU:HD12	12:AM:70:ARG:HG2	2.00	0.42
1:AA:969:A:C2'	12:AM:55:LYS:HZ1	2.29	0.42
13:AN:42:TRP:CE3	13:AN:43:SER:CA	2.91	0.42
13:AN:50:TYR:CE1	13:AN:60:ALA:HB2	2.54	0.42
14:AO:23:LYS:HE3	14:AO:23:LYS:CA	2.15	0.42
14:AO:33:ARG:O	14:AO:84:LEU:CG	2.62	0.42
14:AO:84:LEU:C	14:AO:84:LEU:CD2	2.83	0.42
14:AO:46:LYS:HZ3	14:AO:94:PRO:CG	2.32	0.42
17:AR:65:ARG:O	17:AR:66:LEU:C	2.57	0.42
17:AR:76:GLU:C	17:AR:78:TYR:N	2.72	0.42
18:AS:32:TYR:O	18:AS:33:ILE:C	2.57	0.42
18:AS:35:LYS:HD2	18:AS:35:LYS:C	2.38	0.42
19:AT:17:LYS:HE3	19:AT:48:GLU:CA	2.45	0.42
20:AU:22:VAL:C	20:AU:24:ALA:N	2.71	0.42
20:AU:80:PRO:O	20:AU:82:THR:N	2.53	0.42
22:AW:22:ARG:O	22:AW:23:ARG:C	2.57	0.42
22:AW:49:ALA:HB3	22:AW:99:LEU:CG	2.49	0.42
51:B4:15:ARG:O	51:B4:18:ALA:HB3	2.20	0.42
52:B5:25:LYS:HG2	52:B5:26:ASN:N	2.34	0.42
53:B6:34:ARG:NH2	53:B6:42:LEU:HG	2.34	0.42
54:B7:2:PRO:HB2	54:B7:4:MET:CE	2.39	0.42
54:B7:26:LYS:HZ3	54:B7:43:GLN:HA	1.83	0.42
54:B7:9:GLY:C	54:B7:14:VAL:HG11	2.40	0.42
55:B8:15:LYS:O	55:B8:25:VAL:HA	2.19	0.42
24:BA:1096:A:C6	33:BL:26:ALA:HB1	2.54	0.42
24:BA:1177:A:C6	24:BA:1178:C:N4	2.88	0.42
24:BA:974(A):C:H1'	24:BA:1186:G:N2	2.35	0.42
24:BA:1225:C:C4'	42:BU:87:HIS:CE1	3.02	0.42
24:BA:1242:A:H5''	24:BA:1243:G:OP2	2.19	0.42
24:BA:1388:G:C4	24:BA:1400:G:N2	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1454:U:H5'	24:BA:1455:G:P	2.58	0.42
24:BA:1469:A:C8	24:BA:1469:A:C3'	3.02	0.42
24:BA:1559:G:C4	24:BA:1559:G:C3'	2.76	0.42
24:BA:1569:A:N1	24:BA:1570:A:C6	2.87	0.42
24:BA:1571:A:C2'	24:BA:1571:A:N3	2.83	0.42
24:BA:1639:U:C2'	24:BA:1640:C:H5''	2.42	0.42
24:BA:1684:C:N3	24:BA:1705:G:C2	2.88	0.42
24:BA:1727:U:C2'	24:BA:1728:G:OP1	2.68	0.42
24:BA:171:G:C2	24:BA:172:C:N3	2.88	0.42
24:BA:1732:A:OP1	24:BA:1733:G:C4	2.72	0.42
24:BA:1741:C:O2'	24:BA:1742:C:O4'	2.38	0.42
24:BA:1772:G:O2'	24:BA:1773:A:H4'	2.19	0.42
24:BA:1806:C:H2'	24:BA:1807:G:O5'	2.19	0.42
24:BA:1967:C:H2'	24:BA:1968:G:H5'	2.00	0.42
24:BA:1993:U:C5	24:BA:1994:C:H5	2.34	0.42
24:BA:1661:G:N1	24:BA:2000:G:C4	2.88	0.42
24:BA:2032:G:H4'	24:BA:2033:A:OP1	2.19	0.42
24:BA:2052:G:C4	24:BA:2053:G:N7	2.87	0.42
24:BA:2292:C:H2'	24:BA:2293:C:C6	2.54	0.42
24:BA:2262:U:C4'	24:BA:2328:A:C2	2.97	0.42
24:BA:2349:G:C6	24:BA:2369:A:C6	3.08	0.42
24:BA:2352:A:O2'	24:BA:2353:G:H5'	2.19	0.42
24:BA:2351:G:H22	24:BA:2365:G:H2'	1.85	0.42
24:BA:2074:U:C2	24:BA:2436:G:C2	3.08	0.42
24:BA:2538:C:C2	24:BA:2539:C:H5	2.33	0.42
24:BA:2544:G:C2'	24:BA:2545:G:C5'	2.98	0.42
24:BA:2640:G:C5	24:BA:2641:G:N7	2.88	0.42
24:BA:2658:C:C2'	24:BA:2659:G:C5'	2.64	0.42
24:BA:2698:U:N3	24:BA:2699:C:N4	2.67	0.42
24:BA:2707:G:O2'	38:BQ:68:ARG:HG3	2.20	0.42
24:BA:270(L):U:O2	24:BA:270(M):U:C5	2.72	0.42
24:BA:2758:A:C5	24:BA:2759:G:N7	2.87	0.42
24:BA:2797:U:OP1	24:BA:2799:A:O4'	2.38	0.42
24:BA:2845:G:C4	24:BA:2846:G:C8	3.08	0.42
24:BA:2721:A:C2	24:BA:2873:A:N1	2.88	0.42
24:BA:310:A:C5	24:BA:312:G:C4	3.08	0.42
24:BA:329:G:O2'	24:BA:330:A:OP1	2.31	0.42
24:BA:295:G:N9	24:BA:345:A:C2	2.87	0.42
24:BA:418:G:C2	24:BA:419:C:C6	3.08	0.42
24:BA:449:A:N3	24:BA:450:G:C8	2.88	0.42
24:BA:450:G:C8	24:BA:450:G:O5'	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:531:C:C2'	24:BA:531:C:O2	2.68	0.42
24:BA:600:G:H2'	24:BA:600:G:N3	2.35	0.42
24:BA:601:C:HO2'	24:BA:602:G:H5'	1.83	0.42
24:BA:608:A:C2'	24:BA:609:A:H5'	2.49	0.42
24:BA:659:C:C2	24:BA:660:G:C8	3.07	0.42
24:BA:666:G:O2'	24:BA:667:U:C5'	2.68	0.42
24:BA:769:G:C6	24:BA:770:G:N7	2.88	0.42
24:BA:800:A:C8	24:BA:802:A:H5'	2.55	0.42
24:BA:863:A:C2	24:BA:864:G:C6	3.08	0.42
24:BA:7:G:C2	24:BA:8:A:C4	3.07	0.42
24:BA:909:A:C2	24:BA:912:C:C6	3.08	0.42
24:BA:971:C:H4'	24:BA:983:A:O2'	2.19	0.42
25:BB:73:A:C6	25:BB:104:A:H1'	2.55	0.42
25:BB:110:G:N3	25:BB:111:U:H1'	2.35	0.42
25:BB:15:A:H4'	25:BB:16:G:OP2	2.19	0.42
25:BB:55:U:O2'	25:BB:56:G:C5'	2.57	0.42
27:BD:136:ILE:CD1	27:BD:173:VAL:HG11	2.40	0.42
27:BD:226:MET:HB3	27:BD:227:ASN:H	1.36	0.42
27:BD:51:VAL:HG12	27:BD:52:ARG:HD3	2.02	0.42
27:BD:75:ILE:HD13	27:BD:99:ASP:CG	2.40	0.42
28:BE:127:ASP:CG	28:BE:135:HIS:N	2.72	0.42
28:BE:1:MET:O	28:BE:2:LYS:HG3	2.20	0.42
28:BE:64:LYS:O	28:BE:67:PHE:CB	2.67	0.42
28:BE:53:PRO:CG	28:BE:75:VAL:CG2	2.86	0.42
24:BA:659:C:C4'	29:BF:102:PRO:CD	2.97	0.42
29:BF:53:THR:O	29:BF:55:GLY:N	2.51	0.42
30:BG:19:LEU:HA	30:BG:22:ARG:HG2	2.02	0.42
30:BG:26:GLN:CD	30:BG:29:TRP:CE3	2.91	0.42
31:BH:118:PRO:CD	31:BH:121:ILE:HD13	2.29	0.42
31:BH:156:ALA:C	31:BH:157:TYR:CG	2.92	0.42
24:BA:558:G:OP1	34:BM:109:LYS:CG	2.67	0.42
34:BM:25:ARG:O	34:BM:29:LYS:HG3	2.20	0.42
34:BM:39:ARG:HG2	34:BM:40:PRO:HD2	2.02	0.42
34:BM:7:LYS:CD	34:BM:39:ARG:NH2	2.82	0.42
34:BM:39:ARG:CG	34:BM:40:PRO:HD2	2.50	0.42
34:BM:95:PRO:CA	34:BM:98:VAL:HG23	2.46	0.42
35:BN:114:ILE:HG22	35:BN:115:VAL:N	2.32	0.42
24:BA:627:A:H5''	36:BO:75:ILE:CG2	2.50	0.42
36:BO:86:LYS:NZ	36:BO:99:LEU:CD1	2.83	0.42
37:BP:78:PRO:C	37:BP:79:LEU:HD23	2.38	0.42
37:BP:72:LYS:O	37:BP:93:TYR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:11:LYS:N	39:BR:11:LYS:HD2	2.33	0.42
39:BR:17:ARG:HH11	39:BR:25:ARG:HD2	1.82	0.42
39:BR:34:HIS:O	39:BR:35:ILE:O	2.37	0.42
39:BR:66:ALA:C	39:BR:68:GLN:N	2.72	0.42
40:BS:78:LEU:HD23	40:BS:79:HIS:H	1.83	0.42
41:BT:97:ASP:O	41:BT:100:VAL:HG23	2.20	0.42
43:BV:12:ILE:H	43:BV:12:ILE:CD1	2.32	0.42
44:BW:54:VAL:HG22	44:BW:81:VAL:CG2	2.40	0.42
44:BW:63:LYS:N	44:BW:72:LYS:HG2	2.24	0.42
44:BW:83:VAL:HG11	44:BW:87:GLN:O	2.20	0.42
46:BY:103:ARG:O	46:BY:138:GLU:HA	2.20	0.42
46:BY:160:GLY:O	46:BY:161:VAL:O	2.38	0.42
46:BY:118:GLN:CD	46:BY:172:ALA:HB1	2.40	0.42
24:BA:858:U:OP1	47:BZ:44:ARG:CZ	2.68	0.42
47:BZ:84:LEU:HB3	47:BZ:85:ALA:H	1.57	0.42
32:BK:81:VAL:HG21	32:BK:123:LEU:CD1	2.49	0.42
32:BK:93:THR:O	32:BK:96:ASP:CB	2.66	0.42
26:BC:223:ARG:CB	26:BC:223:ARG:HH11	2.33	0.42
24:BA:1414:G:C2	24:BA:1415:U:C2	3.07	0.42
24:BA:1038:C:O2	24:BA:1038:C:H2'	2.19	0.42
2:A1:39:U:H6	2:A1:39:U:H3'	1.85	0.42
1:AA:101:A:N3	1:AA:102:G:C8	2.88	0.42
1:AA:1004:A:C3'	1:AA:1025:U:C4	2.89	0.42
1:AA:1053:G:O3'	1:AA:1054:C:H4'	2.19	0.42
1:AA:1103:C:C2	1:AA:1104:G:C8	3.07	0.42
1:AA:1130:A:C2	1:AA:1146:A:C2	3.07	0.42
1:AA:1130:A:C6	1:AA:1146:A:N1	2.88	0.42
1:AA:113:G:C5	1:AA:114:U:C4	3.07	0.42
1:AA:1183:A:C2'	1:AA:1184:G:OP1	2.68	0.42
1:AA:1324:A:C2	1:AA:1325:C:C6	3.07	0.42
1:AA:1331:G:HO2'	1:AA:1332:A:P	2.43	0.42
1:AA:1386:G:O2'	1:AA:1387:G:C5'	2.68	0.42
1:AA:1455:G:H5''	22:AW:31:SER:OG	2.19	0.42
1:AA:1494:G:C2	1:AA:1495:U:C4	3.08	0.42
1:AA:151:A:C6	1:AA:152:A:N3	2.87	0.42
1:AA:258:G:C6	1:AA:259:G:C5	3.08	0.42
1:AA:265:G:H5'	19:AT:64:PRO:C	2.40	0.42
1:AA:265:G:C8	1:AA:267:C:C4	3.08	0.42
1:AA:7:G:H1'	1:AA:298:A:C4	2.53	0.42
1:AA:390:C:H2'	1:AA:391:G:C8	2.46	0.42
1:AA:392:G:C4	1:AA:393:A:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:373:A:C5	1:AA:482:A:N7	2.88	0.42
1:AA:576:G:N7	1:AA:881:G:O4'	2.53	0.42
1:AA:66:G:H2'	1:AA:67:C:O5'	2.20	0.42
1:AA:66:G:H8	1:AA:66:G:P	2.42	0.42
1:AA:701:C:H5''	1:AA:702:A:C3'	2.49	0.42
1:AA:680:C:C2	1:AA:711:G:C2	3.08	0.42
1:AA:577:G:C1'	1:AA:816:A:C2	3.03	0.42
1:AA:831:U:H2'	1:AA:832:C:O4'	2.18	0.42
1:AA:848:C:O2'	1:AA:849:C:C5'	2.66	0.42
1:AA:865:A:C5	1:AA:866:C:O2	2.73	0.42
1:AA:880:C:OP2	14:AO:9:GLN:NE2	2.52	0.42
1:AA:924:C:H2'	1:AA:925:G:O5'	2.19	0.42
1:AA:979:C:C5	1:AA:980:C:C5	3.08	0.42
3:AB:57:G:H2'	3:AB:57:G:N3	2.34	0.42
3:AB:15:G:C4	3:AB:59:U:O2	2.73	0.42
3:AD:73:A:C2'	3:AD:74:C:OP1	2.68	0.42
4:AE:163:PHE:CD1	4:AE:185:ILE:O	2.72	0.42
4:AE:187:LEU:C	4:AE:187:LEU:CD1	2.81	0.42
4:AE:187:LEU:HB2	4:AE:201:ILE:HG22	2.02	0.42
4:AE:23:ARG:H	4:AE:23:ARG:HG3	1.46	0.42
5:AF:120:VAL:HG13	5:AF:133:ALA:HB1	2.00	0.42
5:AF:33:LEU:HD23	5:AF:36:ASP:HB3	2.01	0.42
5:AF:83:ARG:C	5:AF:87:LEU:HG	2.40	0.42
6:AG:126:ILE:H	6:AG:132:ARG:HD2	1.84	0.42
6:AG:179:GLU:C	6:AG:181:MET:H	2.21	0.42
6:AG:73:ARG:O	6:AG:74:GLN:C	2.58	0.42
6:AG:88:VAL:O	6:AG:92:VAL:HG23	2.20	0.42
6:AG:97:LEU:O	6:AG:103:ASN:ND2	2.49	0.42
7:AH:100:VAL:HG11	7:AH:107:ARG:CG	2.34	0.42
7:AH:152:ARG:HD3	7:AH:152:ARG:O	2.20	0.42
7:AH:34:VAL:HG23	7:AH:62:ALA:HB1	2.02	0.42
8:AI:21:LEU:HD12	8:AI:24:GLU:OE1	2.19	0.42
9:AJ:12:LEU:HD11	9:AJ:21:VAL:HB	2.02	0.42
9:AJ:152:ALA:C	9:AJ:154:TYR:H	2.22	0.42
9:AJ:88:PRO:HD2	9:AJ:152:ALA:CA	2.49	0.42
9:AJ:93:PRO:O	9:AJ:96:GLN:N	2.53	0.42
10:AK:104:ARG:HB2	10:AK:107:LEU:HG	2.02	0.42
10:AK:5:PRO:O	10:AK:8:ASP:CB	2.54	0.42
11:AL:97:LYS:CE	11:AL:102:LEU:HD13	2.48	0.42
12:AM:16:LEU:H	12:AM:16:LEU:CD2	2.33	0.42
13:AN:71:LYS:HG3	13:AN:72:ALA:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:6:GLY:HA2	30:BG:114:ILE:CD1	2.49	0.42
15:AP:96:LEU:C	15:AP:110:ARG:HG2	2.40	0.42
12:AM:49:VAL:CG1	16:AQ:41:ARG:HB2	2.49	0.42
5:AF:40:ARG:HE	16:AQ:52:GLN:NE2	2.18	0.42
17:AR:66:LEU:O	17:AR:67:LEU:C	2.58	0.42
19:AT:104:LYS:CD	19:AT:105:ALA:N	2.79	0.42
19:AT:53:LEU:O	19:AT:53:LEU:CG	2.66	0.42
19:AT:60:ILE:HG12	19:AT:61:GLU:N	2.34	0.42
20:AU:18:ARG:HH21	20:AU:21:LYS:CG	2.33	0.42
20:AU:58:LEU:HD13	20:AU:66:LEU:CD2	2.49	0.42
21:AV:22:LEU:CA	21:AV:25:LYS:NZ	2.83	0.42
50:B3:58:ARG:HB3	50:B3:59:PHE:H	1.35	0.42
50:B3:59:PHE:HA	50:B3:62:ARG:CZ	2.49	0.42
51:B4:11:THR:HG23	51:B4:15:ARG:CG	2.49	0.42
52:B5:16:CYS:O	52:B5:19:ARG:HD3	2.20	0.42
53:B6:25:PRO:HA	53:B6:28:ARG:CZ	2.50	0.42
54:B7:12:LYS:O	54:B7:14:VAL:HG23	2.18	0.42
24:BA:1045:A:O2'	24:BA:1047:G:C5'	2.67	0.42
24:BA:1049:C:N3	24:BA:1050:A:C5	2.88	0.42
24:BA:1059:G:N7	24:BA:1060:U:H1'	2.34	0.42
24:BA:1062:G:O5'	24:BA:1070:A:H5'	2.19	0.42
24:BA:1155:A:C3'	24:BA:1155:A:P	3.08	0.42
24:BA:1250:G:HO2'	24:BA:1251:C:P	2.38	0.42
24:BA:1364:G:N7	50:B3:2:LYS:CB	2.68	0.42
24:BA:1372:U:C6	24:BA:1372:U:H3'	2.54	0.42
24:BA:1373:A:H2'	24:BA:1374:G:H8	1.79	0.42
24:BA:1466:G:C2'	24:BA:1547:C:N4	2.57	0.42
24:BA:1516:U:C6	24:BA:1517:G:N7	2.88	0.42
24:BA:1704:G:C6	24:BA:1705:G:C5	3.08	0.42
24:BA:1912:A:C8	24:BA:1913:A:C1'	2.96	0.42
24:BA:1913:A:C5	24:BA:1918:A:N7	2.88	0.42
24:BA:1967:C:O2	24:BA:1968:G:O4'	2.38	0.42
24:BA:197:A:C4	24:BA:198:C:C6	3.08	0.42
24:BA:2002:G:C6	24:BA:2003:G:N7	2.87	0.42
24:BA:2093:G:O2'	24:BA:2094:G:H5'	2.19	0.42
24:BA:217:G:H2'	24:BA:218:A:C5'	2.50	0.42
24:BA:192:C:OP1	24:BA:2243:U:OP1	2.38	0.42
24:BA:2289:G:N7	24:BA:2289:G:OP2	2.52	0.42
24:BA:2521:C:O2	24:BA:2522:U:C1'	2.67	0.42
24:BA:2582:G:C3'	24:BA:2583:G:H5'	2.49	0.42
24:BA:2603:G:OP2	47:BZ:1:MET:CB	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:221:A:C8	24:BA:266:G:N7	2.88	0.42
24:BA:2683:C:C5	24:BA:2684:U:C5	3.07	0.42
24:BA:2716:U:C2	24:BA:2717:G:N7	2.87	0.42
24:BA:2729:G:C5	24:BA:2730:C:C5	3.07	0.42
24:BA:2808:U:H3'	24:BA:2809:A:C5'	2.49	0.42
24:BA:2820:A:O3'	38:BQ:4:LEU:CD2	2.63	0.42
24:BA:2843:G:C2	24:BA:2844:G:C8	3.08	0.42
24:BA:2887:U:N3	24:BA:2888:C:C4	2.88	0.42
24:BA:311:A:HO2'	24:BA:312:G:P	2.43	0.42
24:BA:344:G:C2	24:BA:345:A:N6	2.88	0.42
24:BA:374:A:C4	24:BA:375:C:C6	3.08	0.42
24:BA:216:A:N6	24:BA:431:U:H3	2.13	0.42
24:BA:449:A:H4'	29:BF:52:LYS:HZ2	1.82	0.42
24:BA:451:C:H2'	24:BA:453:C:H5	1.84	0.42
24:BA:460:A:C2'	24:BA:461:C:C6	2.92	0.42
24:BA:459:U:O2'	24:BA:460:A:H5'	2.20	0.42
24:BA:544:C:H2'	24:BA:545:G:C5'	2.50	0.42
24:BA:545:G:O3'	24:BA:546:C:C5	2.72	0.42
24:BA:576:U:OP1	24:BA:2503:A:OP1	2.38	0.42
24:BA:593:G:C6	24:BA:594:U:C5	3.07	0.42
24:BA:621:A:C2'	24:BA:622:G:H5'	2.35	0.42
24:BA:667:U:H2'	24:BA:668:G:C1'	2.50	0.42
24:BA:713:G:C2'	24:BA:713:G:N3	2.78	0.42
24:BA:733:G:C6	24:BA:761:A:C5	3.08	0.42
24:BA:738:G:C6	24:BA:759:G:O6	2.73	0.42
24:BA:749:C:OP2	43:BV:88:ARG:NH1	2.47	0.42
24:BA:764:A:H3'	24:BA:765:G:C5'	2.49	0.42
24:BA:774:A:C8	24:BA:775:G:N7	2.88	0.42
24:BA:863:A:N1	24:BA:864:G:C6	2.88	0.42
24:BA:944:G:O6	36:BO:35:HIS:NE2	2.53	0.42
24:BA:957:A:OP1	37:BP:76:LYS:HA	2.19	0.42
24:BA:978:G:N2	24:BA:979:G:C2	2.88	0.42
25:BB:16:G:C6	25:BB:17:C:C4	3.07	0.42
25:BB:19:G:N2	25:BB:20:C:C2	2.88	0.42
25:BB:57:A:N3	30:BG:29:TRP:CD1	2.87	0.42
27:BD:141:VAL:O	27:BD:194:GLY:N	2.47	0.42
27:BD:183:ARG:CG	27:BD:268:ARG:HD2	2.49	0.42
27:BD:209:ALA:O	27:BD:213:ARG:CG	2.67	0.42
24:BA:2589:A:OP1	27:BD:226:MET:SD	2.77	0.42
27:BD:27:THR:HG21	27:BD:82:ILE:CG2	2.50	0.42
28:BE:137:HIS:N	28:BE:137:HIS:ND1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:5:ALA:O	29:BF:7:TYR:HD1	2.03	0.42
29:BF:63:LYS:C	29:BF:64:ILE:CG2	2.88	0.42
15:AP:7:VAL:CG1	30:BG:140:ILE:HG13	2.50	0.42
30:BG:139:LEU:C	30:BG:142:PRO:HD3	2.40	0.42
30:BG:55:LYS:HZ1	30:BG:152:LEU:HD11	1.83	0.42
30:BG:1:MET:O	30:BG:3:LEU:N	2.52	0.42
34:BM:115:ARG:HA	34:BM:118:LYS:CG	2.49	0.42
35:BN:12:ASP:OD2	35:BN:93:PRO:HG3	2.19	0.42
36:BO:80:TYR:OH	36:BO:100:LEU:HD21	2.19	0.42
36:BO:124:LYS:HB3	36:BO:143:GLY:CA	2.50	0.42
36:BO:126:VAL:CA	36:BO:145:PRO:HA	2.49	0.42
36:BO:46:LYS:CA	36:BO:49:ARG:NH1	2.82	0.42
37:BP:42:ILE:HD11	37:BP:46:GLN:HE21	1.82	0.42
37:BP:34:LEU:CG	37:BP:67:ARG:NH2	2.79	0.42
38:BQ:53:HIS:CD2	38:BQ:56:LYS:HZ1	2.35	0.42
38:BQ:96:ARG:HG2	38:BQ:98:LEU:HD12	1.98	0.42
25:BB:9:G:C4'	39:BR:43:GLU:OE2	2.62	0.42
39:BR:70:GLY:O	39:BR:73:LEU:N	2.53	0.42
40:BS:50:ILE:CG2	40:BS:68:TYR:CB	2.98	0.42
40:BS:6:LEU:CD2	40:BS:7:ILE:N	2.82	0.42
41:BT:17:ILE:HG21	41:BT:36:ARG:HD3	2.02	0.42
41:BT:48:ALA:C	41:BT:52:ARG:NE	2.73	0.42
42:BU:12:TYR:OH	42:BU:14:VAL:O	2.35	0.42
42:BU:1:MET:SD	42:BU:15:GLU:OE2	2.78	0.42
24:BA:1161:C:O2'	42:BU:22:VAL:CG1	2.68	0.42
42:BU:25:LEU:HD23	42:BU:28:GLU:HB2	2.02	0.42
24:BA:814:C:P	42:BU:85:LYS:HB2	2.59	0.42
43:BV:65:LEU:HB2	43:BV:68:ARG:HD3	2.01	0.42
44:BW:15:GLU:O	44:BW:18:TYR:HB2	2.19	0.42
46:BY:15:PRO:HB2	46:BY:19:ARG:NH1	2.35	0.42
46:BY:77:ASP:O	46:BY:78:LYS:O	2.37	0.42
46:BY:19:ARG:HH21	46:BY:84:GLU:CA	2.32	0.42
32:BK:92:VAL:HB	32:BK:120:ILE:HG23	2.01	0.42
24:BA:2114:A:O5'	24:BA:2114:A:C8	2.66	0.42
24:BA:2160:G:O2'	24:BA:2161:C:C5'	2.68	0.42
26:BC:103:ILE:CG2	26:BC:108:MET:SD	3.08	0.42
26:BC:156:ILE:HA	26:BC:160:ARG:HB2	2.01	0.42
1:AA:164:U:O2	1:AA:164:U:C2'	2.64	0.42
1:AA:1164:G:C6	1:AA:1165:C:C4	3.07	0.42
1:AA:443:C:N1	1:AA:492:G:N2	2.67	0.42
22:AW:8:ARG:CB	22:AW:8:ARG:NH1	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1537:U:C2	1:AA:1538:C:C5	3.08	0.42
4:AE:228:GLY:O	4:AE:230:VAL:HG23	2.19	0.42
1:AA:1001:G:C8	1:AA:1001:G:H3'	2.55	0.42
1:AA:1084:G:OP1	1:AA:1086:U:C1'	2.68	0.42
1:AA:1127:G:N2	1:AA:1147:C:N4	2.67	0.42
1:AA:1262:C:O5'	1:AA:1262:C:H6	2.02	0.42
1:AA:1268:A:O2'	1:AA:1269:A:O5'	2.38	0.42
1:AA:1298:C:C2'	1:AA:1298:C:O2	2.59	0.42
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.54	0.42
1:AA:1326:C:OP1	23:AX:17:THR:OG1	2.23	0.42
1:AA:1324:A:C4'	1:AA:1362:C:H4'	2.48	0.42
1:AA:1404:C:C2	1:AA:1405:G:C8	3.08	0.42
1:AA:1433:A:C2'	1:AA:1434:A:H5'	2.50	0.42
1:AA:1476:G:C2	1:AA:1477:C:C4	3.07	0.42
1:AA:1508:G:HO2'	1:AA:1509:C:H5'	1.85	0.42
1:AA:1534:A:C2	1:AA:1535:C:C6	3.08	0.42
1:AA:236:G:C2'	1:AA:237:C:H6	2.33	0.42
1:AA:278:G:N2	1:AA:279:A:N6	2.67	0.42
1:AA:35:G:C5	1:AA:36:C:C5	3.08	0.42
1:AA:44:G:C2	1:AA:399:G:C2	3.08	0.42
1:AA:424:G:H8	1:AA:424:G:O5'	2.02	0.42
1:AA:42:G:C4	1:AA:43:C:C5	3.08	0.42
1:AA:450:G:H3'	1:AA:481:G:H1	1.84	0.42
1:AA:573:A:C2'	1:AA:574:A:C8	2.92	0.42
1:AA:578:C:C6	1:AA:578:C:H3'	2.55	0.42
1:AA:589:C:H1'	1:AA:653:A:N6	2.35	0.42
1:AA:730:G:N7	1:AA:731:G:C1'	2.78	0.42
1:AA:748:C:O2'	1:AA:749:C:O4'	2.38	0.42
1:AA:78:G:C6	1:AA:79:G:N7	2.88	0.42
1:AA:821:G:C6	1:AA:880:C:N3	2.88	0.42
1:AA:843:U:H3'	1:AA:848:C:O4'	2.19	0.42
1:AA:879:C:N3	1:AA:880:C:C5	2.88	0.42
1:AA:912:C:OP1	14:AO:94:PRO:HG3	2.19	0.42
1:AA:953:G:N1	1:AA:1229:A:C6	2.88	0.42
3:AD:74:C:OP2	50:B3:22:ILE:CG1	2.67	0.42
4:AE:125:PRO:C	4:AE:127:ILE:HG13	2.40	0.42
4:AE:119:GLU:OE1	4:AE:142:LEU:HD21	2.18	0.42
4:AE:171:ALA:O	4:AE:174:VAL:CB	2.63	0.42
4:AE:189:ASP:HB2	4:AE:205:ASP:CG	2.40	0.42
4:AE:207:ALA:O	4:AE:208:ILE:C	2.58	0.42
4:AE:20:GLU:O	4:AE:39:ILE:CG1	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:43:ASP:O	4:AE:44:LEU:O	2.38	0.42
4:AE:69:LEU:CD1	4:AE:69:LEU:C	2.87	0.42
1:AA:421:U:O2	5:AF:127:ARG:CZ	2.68	0.42
5:AF:12:LEU:HD11	5:AF:18:TRP:CZ2	2.55	0.42
5:AF:12:LEU:HD22	16:AQ:58:LYS:HB2	2.01	0.42
5:AF:129:ALA:CB	5:AF:132:ARG:HD2	2.49	0.42
5:AF:36:ASP:OD2	5:AF:36:ASP:O	2.36	0.42
5:AF:40:ARG:O	5:AF:44:GLU:HG3	2.19	0.42
5:AF:74:GLY:C	5:AF:76:VAL:N	2.71	0.42
6:AG:181:MET:O	6:AG:181:MET:HE2	2.19	0.42
6:AG:31:CYS:O	6:AG:33:MET:SD	2.78	0.42
6:AG:96:LEU:O	6:AG:97:LEU:C	2.58	0.42
7:AH:109:ILE:CD1	7:AH:136:MET:SD	3.08	0.42
7:AH:33:VAL:C	7:AH:34:VAL:CG2	2.87	0.42
7:AH:83:GLU:HG2	7:AH:88:LYS:HE2	2.02	0.42
8:AI:62:TRP:CD1	20:AU:35:ARG:NH2	2.88	0.42
8:AI:97:PHE:CD2	20:AU:31:LEU:HD22	2.54	0.42
9:AJ:49:ILE:N	9:AJ:49:ILE:HD12	2.34	0.42
9:AJ:75:VAL:HG13	9:AJ:87:VAL:N	2.35	0.42
3:AD:32:U:H1'	9:AJ:86:GLN:HE22	1.84	0.42
9:AJ:77:SER:OG	9:AJ:86:GLN:OE1	2.37	0.42
10:AK:104:ARG:C	10:AK:106:GLY:N	2.73	0.42
10:AK:109:ILE:HG12	10:AK:137:VAL:C	2.40	0.42
10:AK:35:ILE:N	10:AK:35:ILE:HD13	2.35	0.42
10:AK:46:LYS:NZ	10:AK:65:TYR:H	2.11	0.42
11:AL:121:ARG:CG	11:AL:121:ARG:NH1	2.81	0.42
11:AL:17:VAL:HG11	11:AL:81:ILE:CA	2.48	0.42
11:AL:33:PHE:CZ	11:AL:46:ALA:HB3	2.54	0.42
11:AL:98:PRO:O	11:AL:100:GLY:N	2.51	0.42
12:AM:47:PHE:HZ	12:AM:65:LEU:CB	2.33	0.42
12:AM:52:GLY:O	12:AM:53:PRO:C	2.57	0.42
13:AN:54:ARG:HH11	13:AN:54:ARG:CG	2.22	0.42
14:AO:61:THR:O	14:AO:62:SER:CB	2.68	0.42
14:AO:82:VAL:HG12	14:AO:105:TYR:CD1	2.55	0.42
15:AP:19:LEU:HB2	15:AP:25:ILE:HG21	2.00	0.42
15:AP:78:ILE:C	15:AP:81:LEU:HD13	2.39	0.42
18:AS:9:PHE:CE2	18:AS:18:ARG:HG3	2.52	0.42
21:AV:33:THR:HG21	21:AV:49:ILE:CD1	2.43	0.42
22:AW:72:LEU:HD13	22:AW:77:ALA:HA	2.02	0.42
22:AW:74:LYS:HD3	22:AW:74:LYS:N	2.35	0.42
48:B1:29:GLU:C	48:B1:33:GLN:OE1	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:43:ILE:O	49:B2:47:VAL:HG23	2.20	0.42
49:B2:55:ARG:HG3	49:B2:55:ARG:NH2	2.33	0.42
24:BA:1366:A:OP1	50:B3:1:MET:HA	2.20	0.42
51:B4:34:PRO:HD3	51:B4:40:LYS:NZ	2.35	0.42
24:BA:464:U:C1'	53:B6:12:ARG:HH22	2.33	0.42
53:B6:21:ARG:O	53:B6:28:ARG:N	2.52	0.42
54:B7:5:LYS:HB2	54:B7:60:LEU:CA	2.37	0.42
55:B8:19:ARG:O	55:B8:19:ARG:CG	2.68	0.42
24:BA:1131:G:N3	34:BM:74:ARG:HD2	2.35	0.42
24:BA:1148:A:N1	24:BA:1149:G:C6	2.87	0.42
24:BA:1165:U:O2'	24:BA:1166:C:C6	2.68	0.42
24:BA:816:C:C4	24:BA:1192:G:N1	2.88	0.42
24:BA:1268:A:OP2	24:BA:2005:A:H5''	2.19	0.42
24:BA:1296:G:O2'	24:BA:1297:C:O5'	2.30	0.42
24:BA:1322:A:OP1	43:BV:11:ARG:NE	2.47	0.42
24:BA:1391:U:C2	24:BA:1394:U:H5	2.37	0.42
24:BA:1527:G:N7	24:BA:1541:U:O4	2.52	0.42
24:BA:1561:G:H8	24:BA:1561:G:O5'	2.02	0.42
24:BA:1569:A:O3'	27:BD:39:LYS:CE	2.66	0.42
24:BA:1615:C:N4	24:BA:1617:C:C2	2.87	0.42
24:BA:1726:G:C5	24:BA:1727:U:C4	3.08	0.42
24:BA:1731:G:C3'	24:BA:1731:G:N3	2.83	0.42
24:BA:1777:U:C2'	24:BA:1778:U:C5'	2.97	0.42
24:BA:1363:C:C1'	24:BA:1810:A:H1'	2.49	0.42
24:BA:1843:C:O2	24:BA:1844:C:C6	2.73	0.42
24:BA:1855:G:C5	24:BA:1856:G:N7	2.88	0.42
24:BA:1884:A:P	24:BA:1884:A:O4'	2.78	0.42
24:BA:1988:C:C2	24:BA:1989:G:C8	3.08	0.42
24:BA:2026:C:H2'	24:BA:2027:G:O4'	2.20	0.42
24:BA:2209:C:O2'	24:BA:2210:G:C3'	2.67	0.42
24:BA:2302:G:C2	24:BA:2303:G:C8	3.08	0.42
24:BA:2331:G:N2	24:BA:2385:C:C5	2.88	0.42
24:BA:830:G:H1'	24:BA:2448:A:N1	2.35	0.42
24:BA:2466:C:OP1	55:B8:5:ALA:CB	2.65	0.42
24:BA:2554:U:C5	24:BA:2556:C:N3	2.86	0.42
24:BA:2567:G:H2'	24:BA:2568:C:H6	1.82	0.42
24:BA:2570:G:N2	24:BA:2571:C:C1'	2.83	0.42
24:BA:2688:U:N3	24:BA:2719:G:N3	2.62	0.42
24:BA:2722:G:C6	24:BA:2723:C:C4	3.07	0.42
24:BA:2765:A:C2'	24:BA:2766:G:OP1	2.67	0.42
24:BA:2776:A:C4	24:BA:2778:A:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2820:A:N6	28:BE:192:ASN:O	2.53	0.42
24:BA:283:A:H3'	24:BA:283:A:OP1	2.20	0.42
24:BA:2876:G:H5'	40:BS:1:MET:H3	1.84	0.42
24:BA:28:A:C3'	24:BA:29:U:H5'	2.50	0.42
24:BA:342:G:C2	24:BA:343:C:C2	3.08	0.42
24:BA:391:G:H5'	24:BA:412:A:H4'	2.01	0.42
24:BA:477:A:C4	24:BA:478:A:N7	2.88	0.42
24:BA:566:U:C3'	24:BA:567:A:H8	2.32	0.42
24:BA:623:G:N7	24:BA:624:C:C4	2.88	0.42
24:BA:771:G:N3	24:BA:772:C:C5	2.88	0.42
24:BA:832:G:P	36:BO:35:HIS:CB	3.04	0.42
24:BA:860:U:C5	24:BA:2267:A:C4'	2.96	0.42
24:BA:910:A:C6	24:BA:911:A:N6	2.88	0.42
24:BA:922:U:N3	24:BA:923:C:N4	2.66	0.42
24:BA:945:A:C2'	24:BA:946:G:C5'	2.98	0.42
24:BA:969:U:OP1	49:B2:20:LYS:NZ	2.53	0.42
24:BA:95:G:C6	24:BA:96:G:C8	3.07	0.42
25:BB:63:G:H2'	25:BB:64:C:C5	2.53	0.42
25:BB:79:C:H2'	25:BB:80:U:H5'	2.01	0.42
27:BD:105:ILE:CG1	27:BD:106:ILE:N	2.82	0.42
27:BD:163:ALA:HA	27:BD:175:LEU:HD21	2.01	0.42
27:BD:16:MET:O	27:BD:17:THR:C	2.57	0.42
27:BD:174:ILE:CD1	27:BD:174:ILE:N	2.78	0.42
27:BD:244:ARG:CA	27:BD:252:TRP:CD1	3.03	0.42
27:BD:248:SER:OG	27:BD:248:SER:O	2.38	0.42
27:BD:268:ARG:O	27:BD:269:PHE:CG	2.73	0.42
28:BE:117:MET:HG2	28:BE:136:ARG:NE	2.10	0.42
29:BF:145:GLU:C	29:BF:147:GLY:N	2.73	0.42
29:BF:37:VAL:O	29:BF:184:TYR:CE1	2.72	0.42
29:BF:91:GLY:HA2	29:BF:92:PRO:HD2	1.91	0.42
30:BG:35:GLU:OE2	30:BG:160:VAL:CG1	2.68	0.42
30:BG:75:LYS:HG2	30:BG:85:GLY:H	1.85	0.42
31:BH:6:ARG:H	31:BH:7:LEU:HD23	1.85	0.42
32:BK:2:LYS:HZ2	32:BK:39:ALA:CB	2.29	0.42
32:BK:6:LEU:C	32:BK:6:LEU:CD2	2.88	0.42
33:BL:79:ARG:O	33:BL:82:ALA:HB3	2.20	0.42
34:BM:62:VAL:C	34:BM:64:GLY:N	2.73	0.42
34:BM:87:LEU:CD2	34:BM:88:GLU:CD	2.88	0.42
35:BN:23:ARG:H	35:BN:23:ARG:CD	2.29	0.42
35:BN:86:ILE:CD1	35:BN:90:GLN:HG3	2.49	0.42
36:BO:126:VAL:HB	36:BO:146:VAL:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:82:ARG:HD2	47:BZ:5:LYS:HD3	2.01	0.42
38:BQ:88:ARG:NH1	38:BQ:88:ARG:CB	2.63	0.42
40:BS:30:VAL:HG21	40:BS:90:GLN:CA	2.41	0.42
41:BT:105:VAL:HG12	41:BT:106:PHE:H	1.84	0.42
24:BA:1152:C:H4'	41:BT:80:ILE:CG2	2.49	0.42
42:BU:49:THR:HG22	42:BU:50:PRO:CD	2.37	0.42
24:BA:1224:G:C3'	42:BU:87:HIS:CE1	3.03	0.42
43:BV:16:LYS:HZ2	43:BV:16:LYS:CA	2.29	0.42
43:BV:72:LYS:HB3	43:BV:108:GLY:CA	2.46	0.42
44:BW:15:GLU:N	44:BW:16:LYS:HE2	2.34	0.42
44:BW:17:ALA:CB	44:BW:27:THR:OG1	2.59	0.42
45:BX:95:LYS:HE3	45:BX:103:GLY:CA	2.49	0.42
45:BX:23:ARG:CG	45:BX:39:VAL:HG22	2.49	0.42
46:BY:155:LEU:HD12	46:BY:155:LEU:HA	1.87	0.42
46:BY:157:LEU:HD22	46:BY:161:VAL:HG13	2.01	0.42
46:BY:162:GLU:OE1	46:BY:162:GLU:HA	2.19	0.42
46:BY:19:ARG:HE	46:BY:24:LEU:HD21	1.85	0.42
46:BY:20:ARG:CG	46:BY:20:ARG:NH1	2.82	0.42
32:BK:50:ARG:C	32:BK:53:ALA:HB3	2.40	0.42
24:BA:2129:C:P	26:BC:6:ARG:CG	3.07	0.42
24:BA:2148:G:C4	24:BA:2149:G:C8	3.08	0.42
26:BC:116:THR:C	26:BC:118:ASP:H	2.23	0.42
26:BC:78:ALA:HA	26:BC:119:VAL:CG1	2.49	0.42
26:BC:211:SER:CB	26:BC:213:TYR:CE1	3.03	0.42
26:BC:213:TYR:HB3	26:BC:222:VAL:O	2.20	0.42
26:BC:97:GLU:CG	26:BC:122:ALA:CB	2.97	0.42
45:BX:41:GLY:C	45:BX:42:VAL:HG22	2.40	0.42
48:B1:3:LYS:HD3	48:B1:3:LYS:HA	1.82	0.42
1:AA:131:C:C5	1:AA:232:G:N2	2.88	0.42
24:BA:434:U:P	24:BA:434:U:H6	2.43	0.42
3:AD:43:C:C2	3:AD:44:G:C8	3.07	0.42
24:BA:1766:U:HO2'	24:BA:1767:C:H5'	1.83	0.42
24:BA:363(C):G:C2'	24:BA:363(D):G:H5'	2.48	0.42
24:BA:1284:A:C6	24:BA:1285:G:C2	3.08	0.42
24:BA:491:G:C2	24:BA:492:A:N3	2.88	0.42
1:AA:513:C:N4	1:AA:514:C:N4	2.68	0.42
1:AA:102:G:N3	1:AA:151:A:C2	2.88	0.42
1:AA:1066:C:H5''	1:AA:1067:A:P	2.60	0.42
1:AA:1084:G:H2'	1:AA:1085:U:H6	1.77	0.42
1:AA:1305:G:O4'	1:AA:1305:G:OP2	2.38	0.42
1:AA:132:C:C2	1:AA:231:G:C2	3.04	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1410:G:N2	1:AA:1411:C:C2	2.88	0.42
1:AA:1475:G:H2'	1:AA:1476:G:H8	1.85	0.42
1:AA:1481:U:C2'	1:AA:1482:G:C8	2.96	0.42
1:AA:188:U:C2'	1:AA:189:U:O5'	2.68	0.42
1:AA:221:C:C2	1:AA:222:U:C5	3.08	0.42
1:AA:24:U:O2'	1:AA:25:C:H5'	2.20	0.42
1:AA:130:A:C2	1:AA:264:U:H6	2.38	0.42
1:AA:50:A:H2	1:AA:360:A:C2'	2.32	0.42
1:AA:377:G:H2'	1:AA:378:G:H8	1.84	0.42
1:AA:403:C:H2'	1:AA:404:U:C6	2.55	0.42
1:AA:428:G:O2'	1:AA:429:U:O5'	2.36	0.42
1:AA:483:C:H3'	1:AA:483:C:C6	2.54	0.42
1:AA:50:A:C2	1:AA:360:A:H2'	2.54	0.42
1:AA:562:C:O2'	14:AO:15:ARG:CG	2.68	0.42
1:AA:632:A:O2'	1:AA:633:G:H5'	2.19	0.42
1:AA:697:U:C3'	1:AA:698:G:H8	2.32	0.42
1:AA:744:C:H4'	1:AA:852:G:O2'	2.20	0.42
1:AA:713:G:H22	1:AA:777:A:H1'	1.82	0.42
1:AA:812:C:O2	1:AA:813:U:C5	2.67	0.42
1:AA:835:U:O2	1:AA:852:G:N2	2.53	0.42
1:AA:895:G:C2	1:AA:896:C:C4	3.07	0.42
1:AA:972:C:O2	1:AA:972:C:C2'	2.68	0.42
1:AA:993:G:N2	1:AA:1046:A:N3	2.68	0.42
3:AC:34:G:N3	3:AC:35:A:C8	2.88	0.42
3:AC:15:G:N2	3:AC:60:U:O2	2.53	0.42
3:AC:75:C:O3'	3:AC:76:A:O3'	2.38	0.42
4:AE:169:LYS:NZ	4:AE:170:GLU:HB2	2.35	0.42
4:AE:20:GLU:O	4:AE:40:HIS:HB2	2.20	0.42
4:AE:55:PHE:HD2	4:AE:221:LEU:HB2	1.85	0.42
4:AE:59:GLU:HA	4:AE:221:LEU:HD11	2.01	0.42
4:AE:49:GLU:O	4:AE:50:GLU:C	2.56	0.42
4:AE:80:ILE:HD12	4:AE:208:ILE:CD1	2.50	0.42
5:AF:147:LYS:HE3	5:AF:147:LYS:HA	2.02	0.42
5:AF:138:VAL:HG12	5:AF:149:ALA:HB3	2.01	0.42
5:AF:186:PHE:CD1	5:AF:186:PHE:C	2.90	0.42
5:AF:70:VAL:HG12	5:AF:71:ALA:N	2.31	0.42
6:AG:105:VAL:HB	6:AG:117:ALA:HB1	2.01	0.42
6:AG:78:LEU:O	6:AG:81:GLU:HB3	2.19	0.42
7:AH:131:ILE:HG22	7:AH:132:ALA:N	2.33	0.42
8:AI:50:TYR:CD2	8:AI:50:TYR:N	2.87	0.42
8:AI:1:MET:HE2	8:AI:68:PRO:HG3	1.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:71:PRO:CD	9:AJ:96:GLN:HG3	2.50	0.42
10:AK:102:ARG:CG	10:AK:102:ARG:HH11	2.32	0.42
10:AK:85:ARG:HD2	10:AK:86:ILE:H	1.85	0.42
10:AK:92:ARG:CG	10:AK:92:ARG:NH1	2.78	0.42
11:AL:7:THR:CG2	11:AL:9:ARG:NH1	2.82	0.42
13:AN:80:VAL:N	13:AN:104:GLN:HE21	2.17	0.42
14:AO:14:GLY:O	14:AO:15:ARG:HG3	2.19	0.42
1:AA:950:U:OP2	15:AP:102:ARG:NH2	2.53	0.42
1:AA:1228:C:O4'	15:AP:117:VAL:HG23	2.20	0.42
15:AP:69:GLU:OE1	15:AP:69:GLU:O	2.37	0.42
15:AP:91:ARG:O	15:AP:96:LEU:CD2	2.68	0.42
16:AQ:24:CYS:HA	16:AQ:38:GLY:O	2.19	0.42
19:AT:76:LEU:HD23	19:AT:76:LEU:O	2.20	0.42
1:AA:958:A:N3	21:AV:55:LYS:HB2	2.34	0.42
22:AW:59:ALA:C	22:AW:61:SER:N	2.72	0.42
48:B1:16:LEU:HD21	48:B1:59:LEU:HB2	2.01	0.42
48:B1:23:LYS:HZ2	48:B1:23:LYS:HB3	1.84	0.42
49:B2:16:PRO:O	49:B2:19:GLN:HB3	2.20	0.42
50:B3:58:ARG:C	50:B3:62:ARG:CZ	2.88	0.42
43:BV:19:LEU:HD23	51:B4:25:LEU:HD22	2.02	0.42
51:B4:4:HIS:ND1	51:B4:5:PRO:HD3	2.35	0.42
52:B5:27:LYS:CD	52:B5:29:ASN:HD21	2.33	0.42
52:B5:33:LYS:CE	52:B5:34:LEU:HD23	2.50	0.42
53:B6:31:LEU:HD23	53:B6:31:LEU:HA	1.80	0.42
54:B7:10:ALA:HA	54:B7:14:VAL:CG1	2.49	0.42
54:B7:20:GLY:O	54:B7:21:LYS:CG	2.60	0.42
24:BA:1122:G:N2	24:BA:1123:C:C2	2.88	0.42
24:BA:1150:C:C2	24:BA:1151:G:C8	3.08	0.42
24:BA:1225:C:N3	24:BA:1226:G:C2	2.88	0.42
24:BA:1292:U:N3	24:BA:1293:C:C5	2.88	0.42
24:BA:1491:G:H2'	24:BA:1492:G:C3'	2.50	0.42
24:BA:1657:C:C2	24:BA:1658:C:C5	3.08	0.42
24:BA:1769:G:C5	24:BA:1984:G:C6	3.08	0.42
24:BA:1914:C:P	24:BA:1916:A:N6	2.93	0.42
24:BA:1936:A:C2	24:BA:1940:U:O2	2.72	0.42
24:BA:1941:C:C6	24:BA:1965:C:C2	3.07	0.42
24:BA:2027:G:C1'	24:BA:2037:G:N2	2.71	0.42
24:BA:677:A:O2'	24:BA:2071:A:H5'	2.20	0.42
24:BA:2083:G:C2	24:BA:2084:C:N3	2.88	0.42
24:BA:2236:C:C5	24:BA:2237:G:C5	3.08	0.42
24:BA:2239:G:N3	24:BA:2240:C:C6	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2331:G:C4	24:BA:2332:U:C2	3.08	0.42
24:BA:2341:G:H22	24:BA:2374:C:H4'	1.84	0.42
24:BA:2373:G:N3	24:BA:2374:C:C5	2.88	0.42
24:BA:2389:G:H5''	24:BA:2390:U:H6	1.84	0.42
24:BA:2414:G:O6	24:BA:2415:G:O6	2.38	0.42
24:BA:245:G:C2	24:BA:246:C:C5	3.08	0.42
24:BA:2515:C:C2'	24:BA:2516:G:O5'	2.67	0.42
24:BA:2518:A:H3'	24:BA:2518:A:H8	1.84	0.42
24:BA:2564:A:C5	24:BA:2565:A:N7	2.88	0.42
24:BA:2638:G:O2'	24:BA:2639:A:H8	2.02	0.42
24:BA:2653:U:C4	24:BA:2654:A:C5	3.07	0.42
24:BA:2659:G:N3	24:BA:2663:G:O6	2.53	0.42
24:BA:270(T):G:N1	24:BA:270(U):C:C4	2.88	0.42
24:BA:2756:U:O2'	24:BA:2757:A:P	2.78	0.42
24:BA:2760:C:O2'	24:BA:2761:G:H5'	2.19	0.42
24:BA:2786:U:H4'	28:BE:64:LYS:C	2.39	0.42
24:BA:2801:A:OP1	24:BA:2802:G:OP1	2.37	0.42
24:BA:2821:A:OP2	24:BA:2821:A:C3'	2.59	0.42
24:BA:2869:G:C2	24:BA:2870:C:C2	3.07	0.42
24:BA:317:G:N2	24:BA:334:C:O2	2.53	0.42
24:BA:414:C:C1'	24:BA:1864:U:O2'	2.67	0.42
24:BA:443:A:C1'	24:BA:1201:C:O4'	2.68	0.42
24:BA:450:G:C5'	29:BF:52:LYS:CD	2.90	0.42
24:BA:457:A:C1'	24:BA:459:U:N3	2.74	0.42
24:BA:507:A:H5'	24:BA:509:C:H1'	2.00	0.42
24:BA:563:G:C4	24:BA:2018:G:C2	3.08	0.42
24:BA:651:G:C8	24:BA:652:C:C1'	3.03	0.42
24:BA:677:A:C4	24:BA:678:C:C5	3.08	0.42
24:BA:702:G:H2'	24:BA:703:U:O5'	2.20	0.42
24:BA:738:G:N7	24:BA:739:G:C2	2.87	0.42
24:BA:763:G:N1	24:BA:765:G:C4	2.88	0.42
24:BA:833:U:C2'	24:BA:834:C:O5'	2.68	0.42
24:BA:832:G:C5	24:BA:833:U:O4	2.73	0.42
24:BA:849:A:C6	24:BA:931:G:N1	2.86	0.42
24:BA:854:G:N2	24:BA:855:G:C4	2.87	0.42
24:BA:910:A:H1'	24:BA:2264:C:O2'	2.20	0.42
24:BA:947:G:N2	24:BA:971:C:C2	2.88	0.42
25:BB:28:C:H2'	25:BB:29:A:C8	2.55	0.42
25:BB:30:C:C2	25:BB:31:C:O4'	2.72	0.42
25:BB:62:C:N3	25:BB:63:G:N7	2.68	0.42
27:BD:73:VAL:HG12	27:BD:120:GLY:HA2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:208:LYS:NZ	27:BD:211:ARG:HH21	2.11	0.42
27:BD:269:PHE:O	27:BD:270:ILE:CG1	2.67	0.42
27:BD:182:LEU:CG	27:BD:270:ILE:HD11	2.49	0.42
27:BD:182:LEU:HG	27:BD:270:ILE:HD11	2.02	0.42
27:BD:63:ARG:CZ	27:BD:63:ARG:CA	2.98	0.42
24:BA:2210:G:C6	27:BD:70:TRP:CD2	3.08	0.42
28:BE:11:MET:CG	28:BE:12:THR:N	2.83	0.42
30:BG:175:LEU:HD23	30:BG:175:LEU:HA	1.69	0.42
30:BG:119:GLY:CA	30:BG:180:PHE:CD2	3.03	0.42
30:BG:53:LEU:HA	30:BG:72:ARG:HH21	1.84	0.42
34:BM:34:LEU:HD21	34:BM:52:VAL:CG1	2.44	0.42
34:BM:39:ARG:O	34:BM:42:TRP:HB3	2.19	0.42
34:BM:85:ILE:HA	34:BM:86:PRO:HD3	1.75	0.42
35:BN:86:ILE:HG23	35:BN:90:GLN:C	2.39	0.42
24:BA:813:U:C5	36:BO:25:SER:CB	3.03	0.42
37:BP:34:LEU:O	37:BP:103:MET:O	2.37	0.42
37:BP:11:LYS:HD2	37:BP:13:GLN:O	2.20	0.42
37:BP:16:ARG:HH21	37:BP:73:PRO:HG3	1.84	0.42
37:BP:44:ALA:HA	37:BP:47:ILE:CD1	2.26	0.42
37:BP:54:MET:O	37:BP:55:VAL:C	2.57	0.42
37:BP:68:ILE:HG12	37:BP:97:VAL:HG13	2.00	0.42
37:BP:77:LYS:O	37:BP:78:PRO:C	2.58	0.42
38:BQ:102:GLU:OE2	38:BQ:102:GLU:CA	2.68	0.42
38:BQ:108:GLY:O	38:BQ:110:PRO:CD	2.65	0.42
39:BR:23:ARG:HD2	39:BR:23:ARG:HA	1.25	0.42
25:BB:48:A:O3'	39:BR:95:HIS:NE2	2.52	0.42
40:BS:30:VAL:CG2	40:BS:31:SER:H	2.33	0.42
40:BS:81:PRO:O	40:BS:85:LYS:NZ	2.50	0.42
41:BT:65:ILE:HG23	41:BT:96:ALA:CA	2.49	0.42
41:BT:82:GLY:HA2	41:BT:117:GLN:CG	2.28	0.42
42:BU:32:THR:HA	42:BU:64:HIS:C	2.26	0.42
41:BT:94:ASN:ND2	42:BU:6:LYS:HZ1	2.13	0.42
42:BU:72:VAL:CG1	42:BU:73:SER:H	2.24	0.42
43:BV:21:VAL:CG2	43:BV:75:TYR:CD2	3.03	0.42
43:BV:24:ILE:HD11	43:BV:47:VAL:HG11	2.00	0.42
43:BV:3:ALA:HB2	43:BV:58:ALA:HB2	2.01	0.42
43:BV:98:LYS:NZ	43:BV:98:LYS:CB	2.82	0.42
43:BV:8:ARG:HB3	43:BV:9:TYR:H	1.38	0.42
46:BY:175:VAL:HG22	46:BY:176:PRO:CD	2.37	0.42
46:BY:43:GLU:N	46:BY:46:LYS:HZ3	2.17	0.42
46:BY:55:HIS:CD2	46:BY:124:ILE:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:58:A:O2'	3:AD:60:U:O4	2.38	0.42
24:BA:2110:G:H2'	24:BA:2120:G:H5'	1.96	0.42
24:BA:2115:G:C4	24:BA:2117:A:N7	2.87	0.42
24:BA:2175:C:OP1	26:BC:5:LYS:HG2	2.20	0.42
26:BC:93:TYR:CE1	26:BC:109:ASP:HB3	2.54	0.42
24:BA:2178:C:H1'	26:BC:168:THR:OG1	2.19	0.42
26:BC:211:SER:HB2	26:BC:213:TYR:OH	2.18	0.42
1:AA:343:U:O2'	1:AA:344:A:O5'	2.26	0.42
24:BA:1585:C:C5'	24:BA:1586:A:OP1	2.57	0.42
26:BC:148:ASN:HD22	26:BC:151:GLU:HB2	1.84	0.42
24:BA:438:G:H2'	24:BA:439:G:O5'	2.19	0.42
24:BA:276:A:C2'	24:BA:276:A:N3	2.82	0.42
2:A1:41:U:H2'	2:A1:42:U:C6	2.55	0.42
1:AA:1003:G:OP2	1:AA:1004:A:C2	2.73	0.42
1:AA:1076:C:O2'	1:AA:1077:G:H5'	2.19	0.42
1:AA:112:G:H5'	1:AA:389:A:C4'	2.30	0.42
1:AA:1175:G:N1	1:AA:1176:A:C6	2.88	0.42
1:AA:1250:A:N7	1:AA:1251:A:C5	2.88	0.42
1:AA:1320:C:H1'	21:AV:73:GLU:HB3	2.02	0.42
1:AA:1459:C:P	22:AW:27:LYS:HZ2	2.43	0.42
1:AA:147:G:C6	1:AA:148:G:C5	3.08	0.42
1:AA:148:G:H1	1:AA:174:C:N4	2.09	0.42
1:AA:1394:A:C8	1:AA:1501:C:H1'	2.50	0.42
1:AA:1511:G:C5	1:AA:1512:U:C5	3.08	0.42
1:AA:222:U:C2'	1:AA:223:U:O5'	2.68	0.42
1:AA:255:G:C6	1:AA:256:U:C4	3.08	0.42
1:AA:319:G:H2'	1:AA:320:C:H5'	2.01	0.42
1:AA:409:G:OP2	6:AG:22:LYS:HE2	2.20	0.42
1:AA:416:G:C2'	1:AA:417:C:C6	2.89	0.42
1:AA:451:A:HO2'	1:AA:452:A:C1'	2.32	0.42
1:AA:51:A:H4'	1:AA:52:G:H5''	2.01	0.42
1:AA:610:G:C2'	1:AA:611:A:C5'	2.96	0.42
1:AA:62:U:H2'	1:AA:63:C:C6	2.55	0.42
1:AA:675:A:C2'	1:AA:676:A:C8	2.99	0.42
1:AA:587:G:N3	1:AA:755:G:C6	2.88	0.42
1:AA:776:G:N2	1:AA:802:A:OP2	2.53	0.42
1:AA:570:G:N2	1:AA:873:A:H61	2.18	0.42
1:AA:880:C:C2'	1:AA:881:G:O5'	2.68	0.42
1:AA:942:G:N2	1:AA:943:U:C2	2.88	0.42
1:AA:947:G:O2'	1:AA:948:C:C5'	2.61	0.42
1:AA:980:C:C5	1:AA:981:U:N3	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:12:U:H5'	24:BA:1915:U:C5'	2.47	0.42
3:AC:18:G:N2	3:AC:58:A:C8	2.88	0.42
4:AE:114:ARG:O	4:AE:118:LEU:CB	2.68	0.42
4:AE:114:ARG:HG3	4:AE:115:LEU:N	2.35	0.42
4:AE:118:LEU:O	4:AE:121:LEU:N	2.53	0.42
4:AE:126:GLU:O	4:AE:127:ILE:O	2.37	0.42
4:AE:185:ILE:HG22	4:AE:199:TYR:CB	2.47	0.42
4:AE:71:VAL:O	4:AE:164:VAL:CG2	2.62	0.42
5:AF:181:ASN:ND2	5:AF:206:GLU:HA	2.34	0.42
5:AF:33:LEU:O	5:AF:36:ASP:CB	2.59	0.42
5:AF:59:ARG:HG2	5:AF:59:ARG:HH11	1.85	0.42
6:AG:13:ARG:HE	6:AG:40:PRO:CB	2.24	0.42
6:AG:149:ALA:O	6:AG:150:GLU:C	2.58	0.42
6:AG:166:LYS:CA	6:AG:178:VAL:HG11	2.50	0.42
6:AG:194:LEU:N	6:AG:194:LEU:CD2	2.67	0.42
7:AH:19:MET:CE	7:AH:20:GLN:N	2.83	0.42
8:AI:80:ARG:O	8:AI:81:ILE:O	2.37	0.42
8:AI:8:ILE:HG22	8:AI:87:ARG:O	2.19	0.42
8:AI:94:GLN:CB	20:AU:32:ARG:NH2	2.81	0.42
9:AJ:6:ARG:N	9:AJ:6:ARG:NH1	2.67	0.42
10:AK:114:THR:C	10:AK:116:LYS:N	2.72	0.42
10:AK:33:GLU:CD	10:AK:59:LEU:HD21	2.40	0.42
11:AL:125:TYR:HB3	11:AL:126:SER:H	1.58	0.42
11:AL:47:LEU:CD1	11:AL:47:LEU:O	2.62	0.42
11:AL:6:GLY:HA3	11:AL:84:ALA:H	1.84	0.42
11:AL:9:ARG:HA	11:AL:76:ALA:HB1	2.01	0.42
12:AM:37:PRO:HA	12:AM:72:VAL:HA	2.02	0.42
12:AM:30:SER:OG	12:AM:81:THR:HA	2.19	0.42
12:AM:81:THR:O	12:AM:83:GLU:N	2.52	0.42
13:AN:101:SER:O	13:AN:102:GLY:C	2.57	0.42
13:AN:122:LYS:O	13:AN:124:LYS:N	2.53	0.42
13:AN:34:ASP:CG	13:AN:36:ASP:H	2.22	0.42
13:AN:44:SER:HB2	13:AN:47:VAL:HG23	2.02	0.42
14:AO:123:LYS:HB3	14:AO:123:LYS:HE3	1.85	0.42
15:AP:22:ILE:CG1	15:AP:25:ILE:HD12	2.50	0.42
17:AR:56:LEU:CD1	17:AR:59:MET:HE1	2.50	0.42
17:AR:71:GLN:O	17:AR:72:ARG:C	2.57	0.42
18:AS:80:PHE:O	18:AS:80:PHE:CD2	2.72	0.42
19:AT:31:LEU:CG	19:AT:31:LEU:O	2.59	0.42
19:AT:58:GLU:OE1	19:AT:75:ARG:N	2.52	0.42
21:AV:48:THR:HG23	21:AV:60:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:77:THR:C	21:AV:78:ARG:HG2	2.40	0.42
1:AA:324:G:OP1	22:AW:22:ARG:HB3	2.20	0.42
22:AW:40:ALA:O	22:AW:42:GLN:N	2.53	0.42
23:AX:18:TYR:HA	23:AX:22:ARG:HB3	2.02	0.42
23:AX:25:LYS:CD	23:AX:25:LYS:O	2.68	0.42
1:AA:1305:G:C5'	23:AX:4:GLY:C	2.88	0.42
48:B1:19:LEU:HD13	48:B1:20:VAL:CA	2.49	0.42
48:B1:27:LEU:CD1	48:B1:48:LEU:HD23	2.50	0.42
50:B3:21:VAL:CG1	50:B3:23:GLU:CG	2.97	0.42
50:B3:64:GLY:O	50:B3:65:ASP:C	2.56	0.42
24:BA:2285:C:C6	52:B5:27:LYS:HE2	2.55	0.42
54:B7:3:LYS:O	54:B7:4:MET:HB2	2.20	0.42
24:BA:108:U:H2'	24:BA:109:G:O4'	2.20	0.42
24:BA:1257:C:C1'	29:BF:83:PHE:HB2	2.50	0.42
24:BA:126:A:C2'	24:BA:127:A:C5'	2.96	0.42
24:BA:1278:A:O3'	38:BQ:34:ILE:HG23	2.20	0.42
24:BA:1305:C:O2'	24:BA:1306:C:H5'	2.19	0.42
24:BA:1310:G:H1	24:BA:1604:C:N4	2.18	0.42
24:BA:1324:G:C2'	24:BA:1325:G:OP1	2.68	0.42
24:BA:1344:G:C6	24:BA:1404:C:C4	3.08	0.42
24:BA:1449(A):G:C4	24:BA:1450:C:C5	3.07	0.42
24:BA:1496:A:C5	24:BA:1577:C:O2'	2.72	0.42
24:BA:1549:C:H2'	24:BA:1550:C:C6	2.49	0.42
24:BA:1593:G:H2'	24:BA:1594:G:H8	1.85	0.42
24:BA:1635:G:O2'	24:BA:1636:C:H5'	2.20	0.42
24:BA:1651:G:C2'	24:BA:1652:A:C8	2.94	0.42
24:BA:1672:C:O2	24:BA:2582:G:H1'	2.20	0.42
24:BA:1698:A:C2'	24:BA:1699:G:OP2	2.68	0.42
24:BA:1761:C:H3'	24:BA:1761:C:C6	2.55	0.42
24:BA:1796:U:H2'	24:BA:1797:C:C6	2.55	0.42
24:BA:1811:G:C2'	24:BA:1812:A:O4'	2.68	0.42
24:BA:189:G:N2	24:BA:206:U:C5	2.88	0.42
24:BA:1908:C:O2'	24:BA:1909:C:O5'	2.37	0.42
24:BA:1913:A:C2'	24:BA:1916:A:C2	3.03	0.42
24:BA:1906:G:C2	24:BA:1929:G:O6	2.73	0.42
24:BA:1935:G:C5	24:BA:1962:C:C5	3.08	0.42
24:BA:1935:G:C2'	24:BA:1936:A:OP2	2.68	0.42
24:BA:1952:A:H2'	24:BA:1953:A:O4'	2.20	0.42
24:BA:1992:G:C6	24:BA:1997:G:N3	2.88	0.42
24:BA:203:C:C5	24:BA:204:A:N7	2.88	0.42
24:BA:2052:G:H1'	28:BE:150:VAL:CA	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:213:A:N1	24:BA:214:G:N3	2.68	0.42
24:BA:219:G:C8	24:BA:219:G:O5'	2.59	0.42
24:BA:2213:U:C4'	24:BA:2215:G:N7	2.83	0.42
24:BA:2340:G:C2	24:BA:2341:G:C8	3.08	0.42
24:BA:2367:G:C2	24:BA:2368:C:C5	3.08	0.42
24:BA:2378:A:C4	39:BR:20:ARG:NH1	2.88	0.42
24:BA:2423:U:O2'	24:BA:2425:A:H5'	2.20	0.42
24:BA:2444:G:N3	24:BA:2444:G:H2'	2.34	0.42
24:BA:2500:U:HO2'	24:BA:2501:C:P	2.42	0.42
24:BA:2554:U:C4	24:BA:2555:U:O4	2.73	0.42
24:BA:2507:C:N1	24:BA:2583:G:N2	2.68	0.42
24:BA:2075:U:H1'	24:BA:2597:G:N2	2.33	0.42
24:BA:2581:G:O6	24:BA:2610:C:H2'	2.17	0.42
24:BA:2691:C:N3	24:BA:2719:G:C2	2.88	0.42
24:BA:270(Z):U:HO2'	24:BA:271(A):C:P	2.40	0.42
24:BA:2744:G:C2	24:BA:2761:G:C4	3.08	0.42
24:BA:2805:G:H2'	24:BA:2807:G:H4'	2.01	0.42
24:BA:2817:G:C6	24:BA:2818:G:C5	3.08	0.42
24:BA:2826:A:O2'	24:BA:2827:C:H5'	2.19	0.42
24:BA:28:A:C8	24:BA:513:A:N6	2.88	0.42
24:BA:364:C:O5'	24:BA:364:C:H6	2.03	0.42
24:BA:365:C:H2'	24:BA:366:C:C5	2.54	0.42
24:BA:365:C:C4	24:BA:366:C:N4	2.88	0.42
24:BA:480:A:H2'	24:BA:481:G:OP1	2.20	0.42
24:BA:507:A:C4'	24:BA:509:C:C6	3.03	0.42
24:BA:696:G:C2	24:BA:697:C:C5	3.08	0.42
24:BA:723:G:C2	24:BA:724:U:C1'	3.02	0.42
24:BA:76:C:H5'	48:B1:54:ARG:HH22	1.84	0.42
24:BA:814:C:O2'	24:BA:1224:G:N2	2.47	0.42
24:BA:824:A:H2'	24:BA:825:C:C6	2.54	0.42
24:BA:878:A:C2'	24:BA:879:G:C8	3.03	0.42
24:BA:879:G:O2'	24:BA:880:G:H5'	2.20	0.42
24:BA:906:G:C6	24:BA:907:U:O4	2.73	0.42
25:BB:66:A:H2	25:BB:108:C:C1'	2.33	0.42
25:BB:83:G:HO2'	25:BB:84:C:H5'	1.81	0.42
27:BD:12:SER:HB2	27:BD:14:ARG:NH2	2.34	0.42
27:BD:146:GLU:HA	27:BD:154:LYS:O	2.20	0.42
27:BD:22:SER:HA	27:BD:205:VAL:O	2.20	0.42
24:BA:1799:G:H8	27:BD:268:ARG:NH1	2.04	0.42
27:BD:181:GLU:OE1	27:BD:270:ILE:HG22	2.20	0.42
28:BE:8:LYS:CB	28:BE:24:THR:CG2	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BE:38:THR:CB	28:BE:39:PRO:CD	2.98	0.42
28:BE:64:LYS:HG2	28:BE:67:PHE:CD1	2.55	0.42
30:BG:125:PHE:HD2	30:BG:129:GLY:CA	2.33	0.42
30:BG:62:LEU:HB3	30:BG:143:GLU:HG3	2.01	0.42
31:BH:105:LEU:O	31:BH:113:VAL:HG21	2.20	0.42
31:BH:118:PRO:HG2	31:BH:121:ILE:HG21	2.00	0.42
31:BH:175:LYS:CG	31:BH:176:ALA:H	2.32	0.42
31:BH:25:LYS:HD3	31:BH:27:LYS:HZ2	1.84	0.42
24:BA:2199:A:H1'	32:BK:29:TYR:OH	2.19	0.42
33:BL:39:LYS:O	33:BL:40:ALA:C	2.58	0.42
34:BM:15:LEU:CD2	34:BM:137:LYS:HB3	2.50	0.42
34:BM:33:LEU:HD11	34:BM:52:VAL:CB	2.49	0.42
34:BM:70:LYS:CD	34:BM:86:PRO:HA	2.50	0.42
35:BN:121:VAL:HA	40:BS:70:VAL:CG1	2.49	0.42
35:BN:13:ASN:N	35:BN:94:ARG:CB	2.82	0.42
35:BN:26:LYS:CG	35:BN:27:GLY:H	2.29	0.42
36:BO:76:LYS:HD3	36:BO:112:LEU:HB3	2.02	0.42
36:BO:124:LYS:HB3	36:BO:143:GLY:HA2	2.02	0.42
36:BO:70:GLN:O	36:BO:71:VAL:HG23	2.20	0.42
37:BP:67:ARG:HD3	37:BP:103:MET:SD	2.60	0.42
37:BP:130:LYS:HZ1	37:BP:132:VAL:CG1	2.32	0.42
37:BP:77:LYS:HB3	37:BP:78:PRO:CD	2.39	0.42
24:BA:2690:C:H41	38:BQ:14:SER:CB	2.32	0.42
39:BR:11:LYS:CA	39:BR:14:VAL:HB	2.49	0.42
39:BR:71:ARG:N	39:BR:104:GLY:HA3	2.35	0.42
39:BR:49:VAL:CG1	39:BR:76:LYS:HZ1	2.29	0.42
40:BS:67:SER:CB	40:BS:75:ILE:CG2	2.98	0.42
40:BS:28:VAL:HG23	40:BS:94:ALA:CA	2.50	0.42
41:BT:97:ASP:HB3	41:BT:101:ARG:HE	1.82	0.42
42:BU:15:GLU:CB	42:BU:16:PRO:CD	2.98	0.42
42:BU:36:PRO:HA	42:BU:61:VAL:HG22	2.02	0.42
42:BU:70:ILE:HG22	42:BU:89:GLN:O	2.20	0.42
46:BY:104:PHE:CE1	46:BY:171:ILE:HG13	2.55	0.42
46:BY:105:VAL:O	46:BY:140:ASP:OD2	2.37	0.42
46:BY:31:ARG:CZ	46:BY:31:ARG:HB3	2.42	0.42
32:BK:77:LEU:HD12	32:BK:142:VAL:CG2	2.50	0.42
3:AD:18:G:C6	3:AD:57:G:C2	3.07	0.42
3:AD:21:A:N6	3:AD:48:C:H6	2.16	0.42
24:BA:2147:G:C2	24:BA:2148:G:H4'	2.55	0.42
26:BC:137:LEU:HD23	26:BC:138:PRO:CD	2.49	0.42
26:BC:89:ALA:HB1	26:BC:150:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:22:ILE:CD1	26:BC:190:ARG:CZ	2.97	0.42
26:BC:77:ILE:HG23	26:BC:96:GLY:O	2.19	0.42
1:AA:1170:A:H8	1:AA:1170:A:H3'	1.84	0.42
24:BA:2186:G:C2	24:BA:2187:G:C6	3.08	0.42
24:BA:1887:C:H2'	24:BA:1888:G:O4'	2.20	0.42
46:BY:92:SER:O	46:BY:93:ASP:CB	2.65	0.42
24:BA:2106:G:H2'	24:BA:2107:C:C6	2.55	0.42
1:AA:1537:U:C4	1:AA:1538:C:C5	3.07	0.42
18:AS:46:PRO:CD	18:AS:47:ASP:H	2.32	0.42
1:AA:1100:C:O2'	1:AA:1102:A:O5'	2.37	0.41
1:AA:1102:A:N6	1:AA:1103:C:N4	2.68	0.41
1:AA:1141:C:C2	1:AA:1142:G:C8	3.07	0.41
1:AA:1157:A:N6	1:AA:1180:A:N7	2.68	0.41
1:AA:1191:A:H5''	5:AF:4:LYS:CE	2.50	0.41
1:AA:1194:U:C4	1:AA:1195:C:C4	3.08	0.41
1:AA:1055:A:N6	1:AA:1206:G:C8	2.88	0.41
1:AA:1245:A:C4	1:AA:1246:C:C5	3.08	0.41
1:AA:1256:A:H61	1:AA:1278:U:C2'	2.32	0.41
1:AA:1287:A:H2	1:AA:1370:G:H21	1.67	0.41
1:AA:1302:U:H4'	1:AA:1303:C:OP1	2.20	0.41
1:AA:1307:U:O5'	1:AA:1307:U:C6	2.66	0.41
1:AA:1393:U:C2'	1:AA:1394:A:OP2	2.68	0.41
1:AA:1418:A:H2'	1:AA:1419:G:H5'	2.00	0.41
1:AA:1453:G:C2'	1:AA:1454:G:C5'	2.98	0.41
1:AA:1494:G:N3	1:AA:1495:U:C5	2.88	0.41
1:AA:130:A:O2'	1:AA:190:G:N2	2.53	0.41
1:AA:244:U:H2'	1:AA:245:C:OP2	2.19	0.41
1:AA:293:G:C6	1:AA:305:G:C2	3.08	0.41
1:AA:297:G:N2	1:AA:299:G:H3'	2.35	0.41
1:AA:328:C:O2	1:AA:328:C:C3'	2.68	0.41
1:AA:44:G:C6	1:AA:399:G:N1	2.87	0.41
1:AA:438:G:N3	1:AA:495:A:C8	2.88	0.41
1:AA:42:G:C6	1:AA:43:C:C4	3.08	0.41
1:AA:448:A:C4	1:AA:487:A:C2	3.08	0.41
1:AA:519:C:H5'	14:AO:51:ALA:CB	2.49	0.41
1:AA:498:A:C8	1:AA:547:A:C6	3.08	0.41
1:AA:606:G:C2	1:AA:631:G:C2	3.08	0.41
1:AA:671:G:N3	1:AA:671:G:H2'	2.35	0.41
1:AA:701:C:HO2'	1:AA:702:A:P	2.39	0.41
1:AA:718:G:H4'	13:AN:117:ASN:ND2	2.25	0.41
1:AA:728:A:C8	17:AR:54:ARG:NH1	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:763:G:N2	1:AA:764:C:C2	2.88	0.41
1:AA:957:U:O2	1:AA:960:U:C6	2.73	0.41
1:AA:95:G:H2'	1:AA:96:G:O4'	2.20	0.41
1:AA:970:C:H42	15:AP:126:LYS:NZ	2.18	0.41
1:AA:999:U:C4	1:AA:1042:G:C6	3.08	0.41
3:AC:8:U:H1'	3:AC:48:C:H1'	2.02	0.41
4:AE:112:VAL:O	4:AE:116:GLU:OE2	2.38	0.41
4:AE:118:LEU:CD2	4:AE:142:LEU:HD12	2.48	0.41
4:AE:33:TYR:HB3	4:AE:42:ILE:O	2.20	0.41
4:AE:46:LYS:O	4:AE:47:THR:C	2.58	0.41
4:AE:42:ILE:CD1	4:AE:47:THR:OG1	2.68	0.41
5:AF:128:PHE:O	5:AF:130:VAL:N	2.52	0.41
5:AF:131:ARG:HH22	7:AH:51:VAL:HG23	1.85	0.41
5:AF:194:GLY:O	5:AF:196:LEU:CD2	2.68	0.41
5:AF:33:LEU:HD23	5:AF:36:ASP:CB	2.50	0.41
5:AF:6:HIS:CD2	5:AF:8:ILE:HG22	2.55	0.41
6:AG:161:ASN:O	6:AG:165:MET:CB	2.67	0.41
6:AG:17:VAL:O	6:AG:17:VAL:HG12	2.20	0.41
6:AG:33:MET:HE3	6:AG:33:MET:H	1.84	0.41
8:AI:14:LEU:HD11	8:AI:18:GLN:HB3	1.99	0.41
8:AI:23:LYS:HE3	8:AI:61:LEU:HD11	2.02	0.41
8:AI:59:TYR:C	8:AI:60:PHE:CD1	2.93	0.41
9:AJ:94:ARG:HH11	9:AJ:94:ARG:C	2.22	0.41
10:AK:65:TYR:CD2	10:AK:78:GLN:HA	2.55	0.41
10:AK:75:ARG:HH11	10:AK:75:ARG:HG3	1.85	0.41
11:AL:72:GLY:O	11:AL:75:ASP:OD2	2.37	0.41
12:AM:46:ARG:CZ	16:AQ:61:TRP:CE3	3.03	0.41
12:AM:54:PHE:O	12:AM:55:LYS:C	2.58	0.41
12:AM:65:LEU:HD13	16:AQ:36:PHE:HE2	1.81	0.41
13:AN:104:GLN:HE22	13:AN:106:LYS:CB	2.33	0.41
1:AA:683:G:N3	13:AN:38:ASN:ND2	2.68	0.41
14:AO:102:ARG:HH11	14:AO:110:VAL:HG13	1.85	0.41
14:AO:7:ILE:CG2	14:AO:8:ASN:N	2.80	0.41
14:AO:92:ASP:C	14:AO:93:LEU:CD2	2.83	0.41
15:AP:3:ARG:NH2	30:BG:113:ARG:NH2	2.68	0.41
15:AP:8:GLU:HG3	15:AP:22:ILE:CD1	2.50	0.41
16:AQ:3:ARG:CG	16:AQ:3:ARG:O	2.68	0.41
16:AQ:48:ALA:N	16:AQ:53:LEU:HD12	2.35	0.41
16:AQ:51:GLY:O	16:AQ:53:LEU:N	2.52	0.41
1:AA:1313:U:O4	21:AV:4:SER:HB2	2.17	0.41
21:AV:77:THR:HG23	21:AV:78:ARG:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:74:LYS:HB2	22:AW:75:ASN:H	1.65	0.41
22:AW:49:ALA:HB3	22:AW:99:LEU:HG	2.01	0.41
48:B1:14:VAL:C	48:B1:17:GLU:HB2	2.39	0.41
48:B1:30:LEU:CD1	48:B1:45:ILE:HA	2.49	0.41
49:B2:40:THR:HG22	49:B2:42:ALA:CB	2.50	0.41
50:B3:21:VAL:HG13	50:B3:23:GLU:CG	2.50	0.41
52:B5:17:LYS:CE	52:B5:48:VAL:CG1	2.98	0.41
53:B6:31:LEU:O	53:B6:35:ARG:CG	2.66	0.41
24:BA:1619:G:N2	53:B6:3:ARG:NH1	2.68	0.41
54:B7:12:LYS:HG2	54:B7:13:ARG:NH1	2.28	0.41
24:BA:1002:G:C2'	24:BA:1003:G:O5'	2.67	0.41
24:BA:1055:G:O5'	24:BA:1055:G:C8	2.60	0.41
24:BA:1061:U:H4'	24:BA:1070:A:C3'	2.47	0.41
24:BA:1103:A:H2'	24:BA:1104:C:OP1	2.19	0.41
24:BA:109:G:N1	24:BA:110:G:C8	2.88	0.41
24:BA:1120:G:O2'	24:BA:1121:C:H5'	2.19	0.41
24:BA:1364:G:O5'	24:BA:1809:A:N1	2.53	0.41
24:BA:1405:U:C2'	24:BA:1406:U:C5	2.87	0.41
24:BA:140:A:C5	24:BA:141:A:C8	3.08	0.41
24:BA:1426:G:C3'	24:BA:1427:A:H5''	2.50	0.41
24:BA:1426:G:H3'	24:BA:1427:A:H8	1.85	0.41
24:BA:1449:A:C6	24:BA:1449(A):G:C5	3.08	0.41
24:BA:1479:G:C2'	24:BA:1480:G:H8	2.19	0.41
24:BA:1500:G:C4	24:BA:1501:C:C5	3.08	0.41
24:BA:1571:A:OP2	24:BA:1571:A:O4'	2.38	0.41
24:BA:1631:A:C6	24:BA:1632:A:C2	3.08	0.41
24:BA:1676:A:C2'	24:BA:1677:A:O5'	2.68	0.41
24:BA:1702:G:C5	24:BA:1703:G:C8	3.08	0.41
24:BA:1820:U:O2'	24:BA:1821:A:P	2.78	0.41
24:BA:1999:C:O2'	24:BA:2722:G:N2	2.52	0.41
24:BA:2083:G:N3	24:BA:2084:C:C6	2.88	0.41
24:BA:2284:C:N3	24:BA:2285:C:C4	2.87	0.41
24:BA:2293:C:N3	24:BA:2294:C:C5	2.88	0.41
24:BA:411:G:N1	24:BA:2407:G:O6	2.49	0.41
24:BA:416:C:N3	24:BA:2407:G:O6	2.53	0.41
24:BA:389:G:H1'	24:BA:2412:A:H2'	2.00	0.41
24:BA:2458:G:HO2'	24:BA:2459:A:C5'	2.33	0.41
24:BA:2548:G:O6	24:BA:2561:A:N6	2.53	0.41
24:BA:2610:C:C2'	24:BA:2611:U:OP2	2.68	0.41
24:BA:2621:A:O2'	24:BA:2622:C:H5'	2.20	0.41
24:BA:270(B):A:C2'	24:BA:270(C):C:H6	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:329:G:OP2	45:BX:66:PRO:HG3	2.19	0.41
24:BA:36:G:H2'	24:BA:37:C:O4'	2.20	0.41
24:BA:397:G:OP2	50:B3:59:PHE:CZ	2.67	0.41
24:BA:402:A:N1	24:BA:403:U:C6	2.88	0.41
24:BA:566:U:H5''	42:BU:82:ARG:HH12	1.77	0.41
24:BA:600:G:H1'	29:BF:105:VAL:CG2	2.50	0.41
24:BA:636:G:OP1	36:BO:132:LYS:HG3	2.19	0.41
24:BA:696:G:C4	24:BA:697:C:C5	3.07	0.41
24:BA:707:G:C6	24:BA:708:C:C4	3.08	0.41
24:BA:756:C:C4	24:BA:757:U:C5	3.08	0.41
24:BA:781:A:N3	24:BA:781:A:H2'	2.35	0.41
24:BA:790:C:C6	24:BA:790:C:C3'	3.03	0.41
24:BA:794:G:C4	24:BA:795:C:C5	3.08	0.41
24:BA:826:U:H3'	24:BA:828:U:C4	2.54	0.41
24:BA:88:G:C5'	24:BA:89:G:OP2	2.57	0.41
24:BA:901:A:H2'	24:BA:902:C:H6	1.83	0.41
24:BA:843:G:C2	24:BA:936:C:N3	2.88	0.41
25:BB:77:U:C6	25:BB:77:U:H3'	2.47	0.41
25:BB:83:G:O2'	25:BB:84:C:C5'	2.61	0.41
27:BD:78:LYS:CD	27:BD:114:GLY:O	2.67	0.41
27:BD:177:LEU:CD2	27:BD:181:GLU:C	2.88	0.41
27:BD:243:GLY:O	27:BD:244:ARG:CG	2.68	0.41
27:BD:49:ILE:HD12	27:BD:49:ILE:H	1.84	0.41
27:BD:54:ARG:HB3	27:BD:218:ARG:CB	2.44	0.41
28:BE:102:VAL:CG2	28:BE:104:VAL:HG23	2.50	0.41
28:BE:137:HIS:CB	28:BE:138:PRO:CD	2.95	0.41
28:BE:100:GLU:C	28:BE:172:VAL:HG13	2.39	0.41
28:BE:55:ASN:O	28:BE:56:PRO:C	2.56	0.41
28:BE:85:ASN:O	28:BE:87:GLU:N	2.38	0.41
29:BF:116:ASP:O	29:BF:119:ARG:CD	2.68	0.41
29:BF:170:LEU:HB3	29:BF:171:PRO:CD	2.49	0.41
30:BG:105:LYS:CA	30:BG:109:VAL:HG13	2.49	0.41
30:BG:108:ASN:OD1	30:BG:177:GLY:HA2	2.19	0.41
30:BG:47:LYS:CG	30:BG:72:ARG:O	2.68	0.41
31:BH:151:ILE:O	31:BH:151:ILE:HG23	2.19	0.41
31:BH:171:LEU:C	31:BH:172:LYS:HZ2	2.24	0.41
34:BM:71:ILE:HG22	34:BM:72:TYR:H	1.85	0.41
35:BN:53:LYS:HG3	35:BN:55:GLY:H	1.84	0.41
37:BP:125:LEU:HD23	37:BP:125:LEU:H	1.83	0.41
37:BP:42:ILE:HD13	37:BP:43:THR:CA	2.49	0.41
37:BP:43:THR:HA	37:BP:94:VAL:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1279:G:H4'	38:BQ:31:HIS:CD2	2.55	0.41
38:BQ:66:VAL:O	38:BQ:67:LEU:C	2.53	0.41
24:BA:2708:G:C4'	38:BQ:71:GLN:OE1	2.68	0.41
38:BQ:90:ARG:CB	38:BQ:94:TYR:HE2	2.33	0.41
39:BR:64:GLU:OE2	39:BR:67:ARG:CB	2.61	0.41
40:BS:50:ILE:HG22	40:BS:67:SER:C	2.41	0.41
40:BS:59:THR:C	40:BS:61:PHE:CE1	2.93	0.41
40:BS:6:LEU:CG	40:BS:7:ILE:N	2.82	0.41
41:BT:33:ARG:HB2	41:BT:33:ARG:CZ	2.50	0.41
41:BT:94:ASN:O	41:BT:96:ALA:N	2.52	0.41
43:BV:72:LYS:O	43:BV:106:ILE:HG23	2.18	0.41
43:BV:16:LYS:NZ	43:BV:16:LYS:H	2.07	0.41
44:BW:8:ILE:H	44:BW:9:LEU:CD1	2.33	0.41
46:BY:95:PRO:CB	46:BY:131:ARG:H	2.33	0.41
46:BY:39:VAL:HG22	46:BY:44:PHE:CZ	2.48	0.41
47:BZ:27:GLU:OE1	47:BZ:27:GLU:CA	2.67	0.41
24:BA:2336:A:H2	47:BZ:57:PHE:CZ	2.38	0.41
24:BA:2126:A:HO2'	24:BA:2127:G:P	2.42	0.41
26:BC:10:LEU:HD21	26:BC:33:ALA:HB2	2.02	0.41
26:BC:137:LEU:HD23	26:BC:138:PRO:N	2.35	0.41
26:BC:22:ILE:HD13	26:BC:189:ILE:CG2	2.50	0.41
26:BC:71:GLN:CG	26:BC:72:VAL:HG23	2.49	0.41
24:BA:1:G:H2'	24:BA:2:G:H8	1.84	0.41
6:AG:159:ARG:NH1	6:AG:159:ARG:HG2	2.35	0.41
24:BA:2154:G:H2'	24:BA:2155:G:O4'	2.19	0.41
33:BL:3:LYS:HB2	33:BL:3:LYS:HE3	1.78	0.41
1:AA:1053:G:O5'	1:AA:1055:A:OP1	2.38	0.41
1:AA:1090:U:O2'	1:AA:1091:U:C5'	2.68	0.41
1:AA:1102:A:N1	1:AA:1103:C:C4	2.89	0.41
1:AA:1068:G:O6	1:AA:1108:G:C2	2.73	0.41
1:AA:1095:U:OP1	1:AA:1108:G:N2	2.53	0.41
1:AA:1185:G:O5'	1:AA:1185:G:H8	2.03	0.41
1:AA:120:A:H2'	1:AA:122:G:C8	2.55	0.41
1:AA:1290:G:C6	1:AA:1291:G:N7	2.88	0.41
1:AA:1306:A:H3'	1:AA:1307:U:C5	2.55	0.41
1:AA:1336:C:O2'	1:AA:1337:G:OP2	2.37	0.41
1:AA:1347:G:H3'	11:AL:107:ARG:O	2.20	0.41
1:AA:1360:A:C2	1:AA:1361:G:C4	3.09	0.41
1:AA:1287:A:H61	1:AA:1371:G:H5'	1.85	0.41
1:AA:1411:C:C2	1:AA:1412:C:C6	3.08	0.41
1:AA:145:G:C6	1:AA:178:C:N4	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:149:A:C2	1:AA:150:C:N3	2.89	0.41
1:AA:438:G:N2	1:AA:494:U:C2	2.88	0.41
1:AA:440:A:H3'	1:AA:442:C:C5	2.55	0.41
1:AA:520:A:OP1	14:AO:52:LEU:CD2	2.68	0.41
1:AA:518:C:O2	1:AA:529:G:O6	2.38	0.41
1:AA:61:G:C6	1:AA:62:U:N3	2.88	0.41
1:AA:697:U:H5'	1:AA:786:G:O2'	2.21	0.41
1:AA:830:G:O6	1:AA:857:C:N4	2.54	0.41
3:AB:14:A:N9	3:AB:22:G:N2	2.67	0.41
3:AC:9:A:C5'	3:AC:10:G:OP2	2.68	0.41
3:AC:19:G:O2'	3:AC:20:U:OP2	2.32	0.41
3:AC:33:U:H6	3:AC:33:U:O5'	2.03	0.41
3:AC:75:C:OP1	3:AC:76:A:OP2	2.39	0.41
4:AE:163:PHE:CZ	4:AE:186:ALA:CA	3.02	0.41
4:AE:21:ARG:HE	4:AE:21:ARG:H	1.63	0.41
4:AE:50:GLU:HG3	4:AE:200:ILE:C	2.32	0.41
5:AF:11:ARG:NH2	5:AF:179:ARG:H	2.08	0.41
5:AF:19:GLU:CD	5:AF:19:GLU:N	2.74	0.41
6:AG:126:ILE:O	6:AG:132:ARG:HB2	2.20	0.41
6:AG:177:ASP:C	6:AG:179:GLU:H	2.22	0.41
7:AH:149:GLU:OE2	7:AH:152:ARG:HG3	2.20	0.41
7:AH:26:PHE:HB2	7:AH:27:ARG:H	1.57	0.41
9:AJ:126:ASP:CB	9:AJ:131:LYS:HG3	2.50	0.41
9:AJ:69:VAL:HG13	9:AJ:135:VAL:HG22	2.02	0.41
10:AK:109:ILE:HG12	10:AK:137:VAL:H	1.84	0.41
10:AK:36:LEU:O	10:AK:39:LEU:HB2	2.18	0.41
10:AK:28:ALA:HB3	10:AK:57:PRO:O	2.20	0.41
10:AK:65:TYR:HB3	10:AK:76:PRO:HB2	2.02	0.41
11:AL:17:VAL:HG11	11:AL:81:ILE:CG1	2.50	0.41
12:AM:5:ARG:CD	12:AM:6:ILE:N	2.83	0.41
12:AM:79:ARG:NH2	12:AM:82:ILE:CG2	2.82	0.41
13:AN:21:ILE:O	13:AN:21:ILE:HG13	2.19	0.41
13:AN:42:TRP:C	13:AN:42:TRP:CE3	2.93	0.41
14:AO:83:VAL:C	14:AO:104:VAL:CG1	2.88	0.41
14:AO:86:ARG:NH1	14:AO:119:LYS:CG	2.66	0.41
15:AP:88:ARG:CZ	15:AP:92:HIS:HD2	2.33	0.41
16:AQ:41:ARG:HG3	16:AQ:42:ILE:N	2.35	0.41
17:AR:34:LEU:HD11	17:AR:35:ARG:HG3	2.02	0.41
18:AS:9:PHE:CD2	18:AS:9:PHE:N	2.88	0.41
1:AA:280:C:C1'	19:AT:38:ARG:CZ	2.98	0.41
20:AU:21:LYS:NZ	20:AU:23:LYS:CB	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:81:PHE:O	20:AU:82:THR:CG2	2.67	0.41
21:AV:30:LEU:CD1	21:AV:59:PRO:HB3	2.51	0.41
22:AW:51:GLU:CB	22:AW:54:LYS:NZ	2.77	0.41
22:AW:64:ASP:O	22:AW:67:ALA:CA	2.66	0.41
48:B1:28:MET:HE2	48:B1:28:MET:HB3	1.91	0.41
49:B2:29:ARG:C	49:B2:30:ARG:HD2	2.40	0.41
49:B2:8:LEU:HD12	49:B2:31:LEU:C	2.40	0.41
50:B3:8:LYS:CG	50:B3:9:LEU:N	2.76	0.41
52:B5:17:LYS:CE	52:B5:50:ARG:HB2	2.50	0.41
53:B6:1:MET:O	53:B6:2:LYS:C	2.58	0.41
54:B7:10:ALA:HB1	54:B7:64:TYR:CG	2.54	0.41
54:B7:63:PRO:CG	54:B7:64:TYR:H	2.33	0.41
24:BA:1033:U:H5''	55:B8:9:ARG:HH21	1.84	0.41
24:BA:1086:A:C3'	24:BA:1087:G:H5'	2.32	0.41
24:BA:1197:G:N3	24:BA:1197:G:H2'	2.34	0.41
24:BA:118:A:C8	24:BA:119:A:C8	3.08	0.41
24:BA:1212:G:C6	24:BA:1236:G:C6	3.08	0.41
24:BA:1305:C:O2'	24:BA:1306:C:C5'	2.68	0.41
24:BA:1340:U:H2'	24:BA:1341:U:OP1	2.20	0.41
24:BA:13:A:C2	24:BA:526:A:N7	2.88	0.41
24:BA:1420:U:C6	24:BA:1420:U:OP2	2.73	0.41
24:BA:1450:C:C2'	24:BA:1451:C:H4'	2.48	0.41
24:BA:120:U:C5	24:BA:150:C:H5	2.37	0.41
24:BA:1549:C:O2'	24:BA:1550:C:H5'	2.19	0.41
24:BA:154:G:C6	24:BA:155:C:N4	2.88	0.41
24:BA:1567:A:OP2	27:BD:86:PRO:HA	2.21	0.41
24:BA:1747:G:HO2'	24:BA:1748:G:H5'	1.85	0.41
24:BA:1791:A:O4'	27:BD:209:ALA:CB	2.61	0.41
24:BA:1829:A:H5'	24:BA:1830:C:OP2	2.20	0.41
24:BA:184:C:H2'	24:BA:185:U:H5	1.86	0.41
24:BA:1990:C:C4	24:BA:1991:U:O4	2.73	0.41
24:BA:573:G:H22	24:BA:2029:G:H21	1.69	0.41
24:BA:2212:A:H61	24:BA:2215:G:H1'	1.85	0.41
24:BA:2279:G:HO2'	24:BA:2280:G:P	2.43	0.41
24:BA:2298:A:N1	24:BA:2321:G:O6	2.52	0.41
24:BA:2304:G:H4'	30:BG:132:ASN:HD21	1.84	0.41
24:BA:2310:A:N1	30:BG:80:PHE:CD2	2.87	0.41
24:BA:2310:A:H2'	24:BA:2311:A:OP2	2.19	0.41
24:BA:2323:G:N3	24:BA:2324:C:C5	2.88	0.41
24:BA:2350:C:H2'	24:BA:2351:G:O5'	2.20	0.41
24:BA:2423:U:O4'	24:BA:2425:A:C8	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2441:C:H2'	24:BA:2441:C:O2	2.20	0.41
24:BA:2470:G:H2'	24:BA:2470:G:N3	2.35	0.41
24:BA:2493:U:H6	24:BA:2493:U:C3'	2.19	0.41
24:BA:2521:C:O2	24:BA:2522:U:O4'	2.38	0.41
24:BA:2564:A:C2	24:BA:2647:U:H5'	2.55	0.41
24:BA:262:A:C4	24:BA:263:C:C6	3.08	0.41
24:BA:2678:C:H2'	24:BA:2679:A:H8	1.85	0.41
24:BA:2772:C:N3	24:BA:2773:C:C5	2.87	0.41
24:BA:2848:G:O2'	24:BA:2849:U:P	2.78	0.41
24:BA:2856:C:O5'	24:BA:2856:C:H6	2.03	0.41
24:BA:2857:G:C3'	24:BA:2857:G:C8	3.03	0.41
24:BA:2899:G:C4	24:BA:2900:A:C8	3.08	0.41
24:BA:307:G:C4	24:BA:309:G:OP2	2.72	0.41
24:BA:360:G:C8	24:BA:361:G:C8	3.07	0.41
24:BA:374:A:H2'	24:BA:374:A:N3	2.35	0.41
24:BA:463:G:H3'	24:BA:463:G:C8	2.55	0.41
24:BA:558:G:C2	24:BA:559:G:C8	3.08	0.41
24:BA:559:G:C2'	24:BA:560:C:O4'	2.65	0.41
24:BA:584:C:OP2	41:BT:10:ARG:NH2	2.45	0.41
24:BA:586:A:C2	24:BA:809:G:C2	3.07	0.41
24:BA:612:G:C2	24:BA:615:G:N2	2.88	0.41
24:BA:627:A:H61	24:BA:638:G:C1'	2.15	0.41
24:BA:627:A:P	24:BA:637:A:H61	2.43	0.41
24:BA:636:G:P	36:BO:132:LYS:HG3	2.61	0.41
24:BA:629:G:H5'	24:BA:649:G:C2	2.55	0.41
24:BA:650:C:N3	24:BA:651:G:N3	2.67	0.41
24:BA:667:U:C4	24:BA:668:G:N7	2.89	0.41
24:BA:669:G:C5	24:BA:801:G:N1	2.88	0.41
24:BA:726:G:H5''	24:BA:727:A:OP1	2.20	0.41
24:BA:728:G:H4'	24:BA:729:G:C8	2.55	0.41
24:BA:796:C:H2'	24:BA:797:C:C6	2.55	0.41
24:BA:819:A:C2'	24:BA:820:A:C8	2.97	0.41
24:BA:826:U:OP1	24:BA:2428:G:C3'	2.63	0.41
24:BA:918:A:H2'	25:BB:80:U:O2'	2.20	0.41
24:BA:960:A:C5	24:BA:962:G:C8	3.08	0.41
24:BA:967:C:H3'	24:BA:967:C:C6	2.55	0.41
24:BA:971:C:H2'	24:BA:972:G:O4'	2.20	0.41
25:BB:48:A:H4'	39:BR:95:HIS:CE1	2.54	0.41
25:BB:69:G:C4	25:BB:70:C:C5	3.08	0.41
25:BB:82:G:C2'	25:BB:83:G:OP2	2.67	0.41
25:BB:85:G:C2	25:BB:92:G:C2	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:122:ASP:HA	27:BD:135:PHE:CD2	2.56	0.41
27:BD:183:ARG:NH2	27:BD:268:ARG:NH1	2.68	0.41
24:BA:2596:U:O2'	27:BD:242:ARG:HD3	2.20	0.41
28:BE:156:MET:O	28:BE:157:ALA:O	2.38	0.41
28:BE:27:LEU:O	28:BE:180:ASN:HB3	2.20	0.41
29:BF:11:VAL:HG13	29:BF:127:GLU:CB	2.36	0.41
29:BF:140:LEU:O	29:BF:141:ALA:C	2.58	0.41
29:BF:168:ARG:HD3	29:BF:169:ASN:N	2.34	0.41
29:BF:37:VAL:CA	29:BF:184:TYR:CZ	2.99	0.41
29:BF:74:ARG:NH1	29:BF:75:HIS:C	2.73	0.41
24:BA:1257:C:H1'	29:BF:83:PHE:HB2	2.02	0.41
30:BG:113:ARG:HH21	30:BG:139:LEU:CD2	2.33	0.41
30:BG:12:TYR:O	30:BG:13:GLU:C	2.56	0.41
31:BH:175:LYS:HG2	31:BH:176:ALA:H	1.85	0.41
31:BH:41:MET:HE1	31:BH:68:THR:CG2	2.48	0.41
33:BL:81:ALA:HB1	33:BL:107:ILE:HD13	2.03	0.41
34:BM:53:VAL:CG1	34:BM:123:TYR:HE2	2.33	0.41
34:BM:8:GLN:O	34:BM:10:GLU:N	2.53	0.41
34:BM:99:LEU:HD21	34:BM:122:VAL:CG2	2.40	0.41
35:BN:24:VAL:HG21	35:BN:26:LYS:CG	2.47	0.41
35:BN:47:ILE:CD1	35:BN:52:VAL:CG1	2.91	0.41
35:BN:53:LYS:HB2	35:BN:53:LYS:HE3	1.89	0.41
35:BN:77:ILE:CA	35:BN:78:ARG:NH1	2.82	0.41
36:BO:80:TYR:CZ	36:BO:100:LEU:HG	2.55	0.41
36:BO:56:SER:HB3	54:B7:13:ARG:HH21	1.78	0.41
37:BP:64:ILE:HG22	37:BP:105:GLU:CB	2.50	0.41
38:BQ:9:LYS:O	38:BQ:10:LEU:HD23	2.20	0.41
38:BQ:113:LEU:C	38:BQ:114:VAL:HG23	2.41	0.41
24:BA:1275:A:H1'	38:BQ:12:ARG:HH21	1.85	0.41
38:BQ:75:LEU:CA	38:BQ:78:LYS:HB3	2.46	0.41
39:BR:17:ARG:O	39:BR:20:ARG:HG2	2.20	0.41
39:BR:28:VAL:O	39:BR:29:PHE:CB	2.58	0.41
39:BR:49:VAL:HG11	39:BR:77:ALA:HA	2.02	0.41
40:BS:17:THR:HG21	40:BS:20:PRO:CG	2.50	0.41
40:BS:45:PHE:CZ	40:BS:87:ASP:CB	2.99	0.41
41:BT:110:VAL:HG12	41:BT:114:LYS:NZ	2.35	0.41
41:BT:111:GLU:O	41:BT:114:LYS:HE3	2.20	0.41
41:BT:16:LYS:HD2	41:BT:17:ILE:HD13	2.02	0.41
41:BT:97:ASP:O	41:BT:101:ARG:NE	2.53	0.41
43:BV:8:ARG:O	43:BV:10:VAL:N	2.53	0.41
45:BX:105:ALA:O	45:BX:107:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BX:46:LYS:HB3	45:BX:46:LYS:HZ3	1.85	0.41
46:BY:102:LEU:CD2	46:BY:125:LEU:HD12	2.49	0.41
46:BY:116:VAL:HG23	46:BY:144:LEU:O	2.19	0.41
46:BY:30:ASN:HA	46:BY:89:PHE:CE2	2.55	0.41
47:BZ:21:LEU:HD11	47:BZ:40:GLN:C	2.41	0.41
32:BK:93:THR:HG23	32:BK:95:LYS:N	2.34	0.41
26:BC:87:GLU:CG	26:BC:94:VAL:HG11	2.50	0.41
24:BA:1767:C:N3	24:BA:1768:U:C5	2.88	0.41
15:AP:121:LYS:O	15:AP:121:LYS:HG3	2.20	0.41
24:BA:2155:G:C2'	24:BA:2156:G:O5'	2.68	0.41
2:A1:16:U:N3	2:A1:18:U:OP1	2.53	0.41
1:AA:1044:A:C6	1:AA:1045:C:H1'	2.55	0.41
1:AA:1056:U:H5'	5:AF:163:ALA:CB	2.50	0.41
1:AA:1080:A:O5'	1:AA:1080:A:C8	2.74	0.41
1:AA:1091:U:C6	1:AA:1093:A:OP2	2.73	0.41
1:AA:1159:U:C5	1:AA:1181:G:C5	3.08	0.41
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.55	0.41
1:AA:1185:G:H2'	1:AA:1186:G:H5'	2.02	0.41
1:AA:1251:A:C2	1:AA:1252:A:N1	2.88	0.41
1:AA:1371:G:C5	1:AA:1372:U:C6	3.08	0.41
1:AA:1422:G:N3	1:AA:1423:G:C8	2.88	0.41
1:AA:1480:G:C2'	1:AA:1481:U:H5'	2.50	0.41
1:AA:149:A:C2	1:AA:150:C:C4	3.08	0.41
1:AA:1518:A:C6	1:AA:1519:A:N6	2.88	0.41
1:AA:25:C:H4'	1:AA:524:G:C2	2.55	0.41
1:AA:296:U:O2'	1:AA:556:C:O2'	2.22	0.41
1:AA:468:A:H4'	18:AS:82:GLN:CB	2.38	0.41
1:AA:486:U:O2	1:AA:486:U:C2'	2.67	0.41
1:AA:607:A:C4	1:AA:608:A:H8	2.38	0.41
1:AA:671:G:C2'	1:AA:672:U:O4'	2.67	0.41
1:AA:64:G:N2	1:AA:68:G:O6	2.42	0.41
1:AA:667:G:C6	1:AA:740:U:C4	3.08	0.41
1:AA:811:C:C5	1:AA:812:C:O2	2.73	0.41
1:AA:812:C:O4'	1:AA:813:U:C6	2.73	0.41
1:AA:994:A:H2	16:AQ:4:LYS:HG2	1.86	0.41
3:AB:62:C:C2	3:AB:63:G:C8	3.08	0.41
3:AC:33:U:N1	3:AC:35:A:OP2	2.53	0.41
4:AE:163:PHE:HE1	4:AE:201:ILE:CD1	2.30	0.41
4:AE:173:ALA:C	4:AE:176:GLU:HB2	2.40	0.41
4:AE:213:LEU:HD21	4:AE:217:ARG:HE	1.85	0.41
4:AE:80:ILE:HG23	4:AE:212:GLN:NE2	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:108:ASN:ND2	5:AF:111:LEU:CD1	2.72	0.41
5:AF:119:ARG:C	5:AF:121:ALA:N	2.70	0.41
5:AF:150:LYS:HA	5:AF:169:ALA:HB1	2.01	0.41
5:AF:38:ARG:HB2	5:AF:94:LEU:CG	2.50	0.41
5:AF:47:LEU:CD1	5:AF:49:SER:HB3	2.47	0.41
5:AF:22:TRP:CB	5:AF:59:ARG:CB	2.87	0.41
6:AG:57:ARG:HB3	6:AG:206:PHE:CB	2.34	0.41
7:AH:14:ARG:HG3	7:AH:14:ARG:O	2.20	0.41
8:AI:50:TYR:CE1	8:AI:52:ILE:HD11	2.54	0.41
10:AK:84:ARG:C	10:AK:135:CYS:SG	2.98	0.41
10:AK:12:ARG:HB2	10:AK:26:VAL:HG21	2.01	0.41
10:AK:65:TYR:HE2	10:AK:78:GLN:CD	2.24	0.41
10:AK:65:TYR:HB2	10:AK:66:GLY:H	1.56	0.41
12:AM:46:ARG:NE	12:AM:64:GLU:OE2	2.54	0.41
12:AM:51:ARG:N	12:AM:60:ARG:HA	2.35	0.41
13:AN:21:ILE:HG22	13:AN:30:VAL:HG21	2.01	0.41
14:AO:37:CYS:SG	14:AO:78:GLN:O	2.78	0.41
14:AO:39:VAL:CB	14:AO:57:LYS:HB2	2.34	0.41
15:AP:20:THR:HA	15:AP:25:ILE:C	2.40	0.41
15:AP:74:VAL:O	15:AP:78:ILE:CG1	2.64	0.41
17:AR:13:GLN:O	17:AR:15:PHE:N	2.53	0.41
17:AR:29:VAL:CG2	17:AR:81:LEU:HD11	2.39	0.41
18:AS:40:ASP:OD1	18:AS:48:TRP:HB2	2.20	0.41
1:AA:761:G:C1'	19:AT:103:GLY:O	2.68	0.41
19:AT:86:GLU:O	19:AT:87:LYS:C	2.56	0.41
22:AW:16:HIS:O	22:AW:19:SER:HB3	2.20	0.41
22:AW:50:GLU:CA	22:AW:99:LEU:HD12	2.49	0.41
24:BA:850:C:C5'	49:B2:18:ASP:HB2	2.50	0.41
49:B2:37:LEU:O	49:B2:37:LEU:HG	2.05	0.41
49:B2:40:THR:C	49:B2:42:ALA:N	2.72	0.41
49:B2:7:LYS:CE	49:B2:32:GLN:HA	2.50	0.41
50:B3:5:ILE:O	50:B3:56:VAL:HA	2.20	0.41
50:B3:5:ILE:CB	50:B3:7:PRO:HD2	2.46	0.41
52:B5:35:GLU:O	52:B5:36:LEU:O	2.38	0.41
53:B6:24:THR:C	53:B6:28:ARG:HE	2.24	0.41
24:BA:1009:A:H5'	41:BT:59:ARG:HH12	1.84	0.41
24:BA:1031:G:C4	24:BA:1032:A:N7	2.88	0.41
24:BA:1071:G:C3'	24:BA:1072:C:C5'	2.98	0.41
24:BA:1055:G:N2	24:BA:1084:A:N3	2.66	0.41
24:BA:1100:C:H2'	24:BA:1101:U:OP1	2.20	0.41
24:BA:1101:U:O2	24:BA:1102:C:C6	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1013:C:OP2	24:BA:1142:U:C2	2.73	0.41
24:BA:1147:C:C2	24:BA:1148:A:C8	3.08	0.41
24:BA:1196:C:H2'	24:BA:1197:G:N9	2.35	0.41
24:BA:1234:U:C4	24:BA:1235:G:C2	3.08	0.41
24:BA:1264:G:C6	24:BA:1265:A:N7	2.86	0.41
24:BA:1296:G:C2	24:BA:1297:C:C4	3.09	0.41
24:BA:1298:C:C4	24:BA:1299:G:C6	3.08	0.41
24:BA:1325:G:OP2	24:BA:1616:A:C8	2.73	0.41
24:BA:1355:G:C2	24:BA:1377:G:C2	3.09	0.41
24:BA:1385:G:O2'	24:BA:1386:C:C5'	2.68	0.41
24:BA:1410:G:C6	24:BA:1411:C:C4	3.07	0.41
24:BA:1423:G:C2	24:BA:1424:G:C8	3.08	0.41
24:BA:1498:C:H2'	24:BA:1498:C:O2	2.21	0.41
24:BA:1553:A:H2'	24:BA:1555:G:N7	2.36	0.41
24:BA:1560:G:C5	24:BA:1561:G:C5	3.07	0.41
24:BA:1625:C:C3'	24:BA:1626:G:H4'	2.47	0.41
24:BA:1835:G:C2	24:BA:1836:C:C6	3.08	0.41
24:BA:1853:A:OP2	24:BA:1853:A:H8	2.03	0.41
24:BA:1916:A:N3	24:BA:1916:A:H2'	2.35	0.41
24:BA:1951:U:H2'	24:BA:1951:U:O2	2.19	0.41
24:BA:2000:G:C6	24:BA:2001:A:N7	2.89	0.41
24:BA:2014:A:C2'	24:BA:2015:A:OP2	2.69	0.41
24:BA:2026:C:O2	24:BA:2027:G:O4'	2.38	0.41
24:BA:2033:A:C6	24:BA:2036:C:N3	2.88	0.41
24:BA:2040:C:C2'	24:BA:2041:U:O5'	2.68	0.41
24:BA:2093:G:C2'	24:BA:2094:G:H5'	2.50	0.41
24:BA:2094:G:N7	24:BA:2095:C:C4	2.88	0.41
24:BA:2096:U:C2	24:BA:2097:C:H5	2.37	0.41
24:BA:215:G:H1'	24:BA:216:A:H5''	2.00	0.41
24:BA:2230:G:N1	24:BA:2231:C:C4	2.89	0.41
24:BA:2280:G:C6	24:BA:2281:C:N4	2.88	0.41
24:BA:21:A:H2'	24:BA:22:C:O4'	2.20	0.41
24:BA:2333:A:H1'	24:BA:2335:A:C2	2.41	0.41
24:BA:2353:G:N1	24:BA:2365:G:C2	2.88	0.41
24:BA:2354:G:O2'	24:BA:2355:C:H5'	2.20	0.41
24:BA:2361:A:C4	24:BA:2362:G:C8	3.08	0.41
24:BA:2077:A:C5	24:BA:2435:A:N7	2.88	0.41
24:BA:2472:G:C4	24:BA:2475:C:N3	2.88	0.41
24:BA:2515:C:H2'	24:BA:2516:G:O5'	2.20	0.41
24:BA:2644:G:N1	24:BA:2645:G:C2	2.88	0.41
24:BA:2653:U:C4	24:BA:2654:A:N6	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2660:A:H2'	24:BA:2661:G:C5'	2.50	0.41
24:BA:270(L):U:C2'	24:BA:270(L):U:O2	2.65	0.41
24:BA:270(T):G:C6	24:BA:270(U):C:C4	3.08	0.41
24:BA:2808:U:H1'	24:BA:2892:A:H61	1.85	0.41
24:BA:2850:A:C4	24:BA:2851:A:C8	3.08	0.41
24:BA:291:C:C4	24:BA:292:C:C5	3.08	0.41
24:BA:292:C:N4	24:BA:346:A:H62	2.19	0.41
24:BA:330:A:H1'	24:BA:1210:A:C5	2.55	0.41
24:BA:336:C:HO2'	24:BA:337:C:H5'	1.80	0.41
24:BA:379:G:C6	24:BA:380:U:C4	3.08	0.41
24:BA:399:G:N1	24:BA:400:G:H1'	2.34	0.41
24:BA:476:G:N2	24:BA:479:A:OP2	2.50	0.41
24:BA:483:A:C2	24:BA:484:C:C1'	3.03	0.41
24:BA:564:C:H1'	41:BT:37:GLU:OE2	2.17	0.41
24:BA:596:G:H2'	24:BA:597:U:O4'	2.20	0.41
24:BA:612:G:N2	24:BA:617:G:N1	2.64	0.41
24:BA:638:G:N2	24:BA:651:G:H5'	2.35	0.41
24:BA:693:C:H4'	24:BA:1354:A:H1'	2.03	0.41
24:BA:719:C:O2'	24:BA:720:C:H5'	2.19	0.41
24:BA:821:A:C8	24:BA:946:G:C4	3.08	0.41
24:BA:826:U:C4	24:BA:828:U:H6	2.38	0.41
24:BA:886:C:H4'	24:BA:887:A:O4'	2.19	0.41
24:BA:903:C:C2	24:BA:904:C:C5	3.08	0.41
24:BA:569:U:H2'	24:BA:983:A:N6	2.35	0.41
24:BA:996:A:N3	24:BA:997:G:C8	2.88	0.41
25:BB:29:A:P	39:BR:34:HIS:ND1	2.93	0.41
25:BB:71:C:C3'	25:BB:72:G:C5'	2.95	0.41
25:BB:82:G:H2'	25:BB:83:G:OP2	2.20	0.41
27:BD:117:VAL:C	27:BD:118:VAL:HG22	2.39	0.41
27:BD:182:LEU:HD12	27:BD:270:ILE:CD1	2.47	0.41
24:BA:1788:C:C1'	27:BD:222:ARG:HH21	2.32	0.41
27:BD:75:ILE:HG22	27:BD:75:ILE:O	2.19	0.41
27:BD:63:ARG:HB3	27:BD:88:ARG:HH21	1.85	0.41
27:BD:9:TYR:CD1	27:BD:25:THR:HG23	2.56	0.41
28:BE:105:THR:HG22	28:BE:199:ARG:CZ	2.50	0.41
28:BE:128:SER:O	28:BE:129:HIS:C	2.56	0.41
28:BE:13:ARG:NE	28:BE:21:VAL:N	2.68	0.41
28:BE:176:ILE:HG23	28:BE:181:LEU:H	1.85	0.41
28:BE:23:VAL:HG11	28:BE:188:VAL:HG22	2.01	0.41
24:BA:2820:A:H62	28:BE:192:ASN:H	1.69	0.41
28:BE:49:LEU:HD11	28:BE:76:ARG:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BF:38:ARG:O	29:BF:42:ALA:CB	2.68	0.41
24:BA:449:A:O3'	29:BF:52:LYS:HD3	2.20	0.41
30:BG:163:ALA:O	30:BG:164:GLU:C	2.57	0.41
30:BG:53:LEU:N	30:BG:53:LEU:HD12	2.35	0.41
30:BG:36:LYS:HB2	30:BG:95:ARG:O	2.20	0.41
30:BG:9:ARG:CG	30:BG:9:ARG:NH1	2.80	0.41
32:BK:3:VAL:HG13	32:BK:31:LEU:HD12	2.01	0.41
33:BL:123:ALA:O	33:BL:127:ILE:HG13	2.21	0.41
24:BA:1098:A:O2'	33:BL:30:HIS:HE1	2.04	0.41
24:BA:1077:A:P	33:BL:93:ARG:HB2	2.61	0.41
34:BM:109:LYS:HG3	34:BM:112:LEU:HB2	1.98	0.41
34:BM:57:ALA:HB1	34:BM:99:LEU:HD23	2.02	0.41
35:BN:111:PHE:HD1	35:BN:115:VAL:HG23	1.86	0.41
35:BN:85:VAL:CB	35:BN:93:PRO:HG3	2.46	0.41
35:BN:17:ARG:NH2	35:BN:98:VAL:O	2.52	0.41
36:BO:74:GLU:HB2	36:BO:107:LYS:HD3	2.01	0.41
36:BO:107:LYS:HZ1	36:BO:110:TYR:CB	2.14	0.41
24:BA:662:G:OP1	36:BO:19:VAL:CG1	2.68	0.41
36:BO:49:ARG:CG	36:BO:49:ARG:NH2	2.81	0.41
36:BO:81:GLN:CA	36:BO:86:LYS:HG2	2.48	0.41
37:BP:110:THR:O	37:BP:111:GLU:HG2	2.19	0.41
37:BP:43:THR:HG23	37:BP:46:GLN:NE2	2.34	0.41
37:BP:48:GLU:O	37:BP:49:ALA:C	2.57	0.41
38:BQ:55:ALA:HA	38:BQ:80:PHE:CE1	2.54	0.41
41:BT:24:TYR:N	41:BT:24:TYR:CD1	2.89	0.41
41:BT:34:LYS:HA	41:BT:37:GLU:HB2	2.02	0.41
41:BT:28:ARG:CB	41:BT:38:THR:HG21	2.37	0.41
41:BT:39:LEU:HD23	41:BT:39:LEU:HA	1.53	0.41
42:BU:37:VAL:CG1	42:BU:37:VAL:O	2.68	0.41
42:BU:49:THR:CB	42:BU:50:PRO:CD	2.88	0.41
43:BV:17:VAL:HG23	43:BV:18:ARG:N	2.33	0.41
45:BX:76:CYS:HB2	45:BX:100:ALA:CB	2.50	0.41
45:BX:13:VAL:N	45:BX:73:ARG:CZ	2.83	0.41
24:BA:2161:C:N3	24:BA:2162:G:N7	2.68	0.41
24:BA:2167:U:O2	24:BA:2167:U:H2'	2.20	0.41
26:BC:86:ALA:HB2	26:BC:149:ILE:HG12	2.01	0.41
26:BC:189:ILE:HD13	26:BC:224:ILE:HD12	2.01	0.41
48:B1:6:GLU:OE1	48:B1:6:GLU:HA	2.20	0.41
24:BA:181:A:H5'	24:BA:181:A:H8	1.78	0.41
24:BA:1588:C:O2'	24:BA:1589:C:H5'	2.21	0.41
1:AA:1166:G:C2	1:AA:1171:G:O6	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:136:VAL:CG2	32:BK:136:VAL:O	2.68	0.41
24:BA:43:G:C2	24:BA:438:G:C4	3.08	0.41
24:BA:132:G:H2'	24:BA:132:G:N3	2.34	0.41
24:BA:363(F):A:N3	24:BA:363(F):A:H2'	2.34	0.41
18:AS:2:VAL:O	18:AS:2:VAL:HG12	2.20	0.41
2:A1:37:U:C2'	2:A1:38:U:C6	3.04	0.41
2:A1:39:U:C3'	2:A1:39:U:C6	3.04	0.41
1:AA:1095:U:H5'	1:AA:1109:C:C2	2.56	0.41
1:AA:1401:G:C6	1:AA:1504:G:N2	2.88	0.41
1:AA:1474:G:C6	1:AA:1475:G:N7	2.88	0.41
1:AA:1507:A:N6	1:AA:1530:G:C5	2.88	0.41
1:AA:66:G:O4'	1:AA:173:U:C4	2.72	0.41
1:AA:265:G:H5''	19:AT:65:ILE:HA	2.03	0.41
1:AA:274:A:O3'	1:AA:275:G:O4'	2.38	0.41
1:AA:317:G:C2'	1:AA:318:G:C5'	2.99	0.41
1:AA:328:C:O2'	1:AA:329:A:O5'	2.32	0.41
1:AA:452:A:C6	1:AA:453:A:N6	2.88	0.41
1:AA:46:G:N2	1:AA:366:C:C1'	2.83	0.41
1:AA:48:C:H2'	1:AA:49:U:OP1	2.20	0.41
1:AA:50:A:H61	1:AA:361:G:C5'	2.33	0.41
1:AA:51:A:H4'	1:AA:52:G:O5'	2.16	0.41
1:AA:538:G:O3'	14:AO:114:LYS:CD	2.52	0.41
1:AA:547:A:C4'	1:AA:548:G:OP1	2.69	0.41
1:AA:686:U:O4	1:AA:703:G:O2'	2.38	0.41
1:AA:730:G:C2'	1:AA:731:G:H5'	2.49	0.41
1:AA:739:C:O2	1:AA:739:C:C2'	2.69	0.41
1:AA:856:C:O2	1:AA:856:C:H2'	2.19	0.41
1:AA:892:A:C4	1:AA:907:A:C6	3.09	0.41
3:AC:28:G:N1	3:AC:43:C:C2	2.89	0.41
4:AE:70:PHE:O	4:AE:92:TYR:CB	2.67	0.41
4:AE:96:ARG:O	4:AE:98:LEU:N	2.53	0.41
5:AF:142:MET:HG3	5:AF:143:GLU:N	2.35	0.41
5:AF:165:THR:CG2	5:AF:166:GLU:N	2.81	0.41
5:AF:66:VAL:O	5:AF:102:ASN:ND2	2.53	0.41
6:AG:107:ARG:HD2	6:AG:173:TRP:CH2	2.55	0.41
6:AG:169:LYS:HA	6:AG:176:LEU:HD11	2.02	0.41
6:AG:191:ARG:O	6:AG:194:LEU:HD23	2.20	0.41
6:AG:18:LYS:HE2	6:AG:20:TYR:HB3	2.03	0.41
6:AG:13:ARG:NH1	6:AG:36:ARG:HB2	2.28	0.41
6:AG:4:TYR:CD2	6:AG:5:ILE:N	2.88	0.41
7:AH:9:LYS:HD3	7:AH:108:ALA:HB1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:43:LEU:CB	7:AH:136:MET:HE1	2.50	0.41
7:AH:39:GLY:C	7:AH:68:GLU:OE2	2.59	0.41
8:AI:7:ASN:O	8:AI:8:ILE:HG12	2.19	0.41
9:AJ:118:VAL:HG12	9:AJ:122:HIS:NE2	2.36	0.41
9:AJ:143:ARG:O	9:AJ:144:MET:C	2.59	0.41
9:AJ:27:ILE:HA	9:AJ:30:ILE:HD12	2.02	0.41
9:AJ:69:VAL:O	9:AJ:138:LYS:HD2	2.19	0.41
9:AJ:87:VAL:HG21	9:AJ:154:TYR:CB	2.49	0.41
10:AK:39:LEU:HB3	10:AK:40:ALA:H	1.75	0.41
12:AM:76:ASN:C	12:AM:78:ASN:N	2.69	0.41
13:AN:33:THR:CA	13:AN:38:ASN:O	2.69	0.41
13:AN:86:GLY:N	13:AN:112:THR:HG23	2.35	0.41
1:AA:538:G:C3'	14:AO:114:LYS:HD3	2.48	0.41
15:AP:102:ARG:C	15:AP:104:ARG:N	2.71	0.41
15:AP:56:LEU:O	15:AP:59:TYR:CB	2.51	0.41
17:AR:71:GLN:CA	17:AR:78:TYR:CD1	3.03	0.41
1:AA:255:G:OP1	19:AT:69:LYS:NZ	2.53	0.41
20:AU:53:ARG:O	20:AU:55:ARG:N	2.54	0.41
21:AV:16:LEU:O	21:AV:19:VAL:N	2.53	0.41
21:AV:44:MET:O	21:AV:62:ILE:HD13	2.20	0.41
22:AW:41:ILE:O	22:AW:91:LEU:CD1	2.68	0.41
22:AW:79:ARG:HG3	22:AW:79:ARG:NH1	2.34	0.41
48:B1:24:LYS:HA	48:B1:52:ILE:HD13	2.02	0.41
44:BW:7:VAL:CG2	48:B1:31:ARG:NH1	2.79	0.41
24:BA:1363:C:N4	50:B3:2:LYS:CD	2.83	0.41
50:B3:6:HIS:CB	50:B3:56:VAL:HG13	2.48	0.41
24:BA:2624:G:H1'	51:B4:22:HIS:NE2	2.35	0.41
53:B6:43:THR:O	53:B6:46:VAL:CA	2.68	0.41
54:B7:15:LYS:O	54:B7:22:VAL:CB	2.68	0.41
55:B8:2:LYS:O	55:B8:3:VAL:CG2	2.58	0.41
24:BA:1074:G:C4	24:BA:1075:C:N4	2.87	0.41
24:BA:1112:G:OP1	31:BH:4:ILE:HG21	2.20	0.41
24:BA:991:C:H5'	24:BA:1185:C:H2'	2.02	0.41
24:BA:991:C:O4'	24:BA:1185:C:H2'	2.20	0.41
24:BA:119:A:O2'	24:BA:120:U:H3'	2.20	0.41
24:BA:1323:U:C5	24:BA:1324:G:N7	2.89	0.41
24:BA:1348:G:O6	24:BA:1349:A:C6	2.74	0.41
24:BA:1356:G:H2'	24:BA:1357:U:C5'	2.51	0.41
24:BA:1356:G:C5	24:BA:1357:U:C5	3.08	0.41
24:BA:1496:A:H2'	24:BA:1497:U:H5	1.84	0.41
24:BA:1536:A:C5	24:BA:1537:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1558:A:H4'	24:BA:1559:G:N7	2.36	0.41
24:BA:1648:C:H2'	24:BA:1648:C:O2	2.20	0.41
24:BA:1675:C:O2	24:BA:1676:A:C8	2.73	0.41
24:BA:1689:A:C6	24:BA:1698:A:C2	3.07	0.41
24:BA:174:C:N3	24:BA:175:G:C8	2.88	0.41
24:BA:1786:A:C5	24:BA:1787:A:C5	3.08	0.41
24:BA:1786:A:N7	24:BA:1787:A:N7	2.69	0.41
24:BA:1952:A:C2	35:BN:22:ILE:HG23	2.56	0.41
24:BA:1969:A:C4'	24:BA:1970:A:H5'	2.37	0.41
24:BA:1972:A:C2	24:BA:1973:G:N7	2.89	0.41
24:BA:18:C:C2	24:BA:19:C:C6	3.08	0.41
24:BA:1660:C:N3	24:BA:2001:A:C6	2.88	0.41
24:BA:2015:A:H2'	24:BA:2016:U:H6	1.86	0.41
24:BA:2018:G:C5	24:BA:2019:A:C5	3.08	0.41
24:BA:2033:A:C2'	24:BA:2034:U:O5'	2.68	0.41
24:BA:2090:G:C2	24:BA:2091:U:N3	2.89	0.41
24:BA:2338:G:C6	24:BA:2339:G:N7	2.88	0.41
24:BA:2371:G:N2	24:BA:2372:G:C2	2.88	0.41
24:BA:2468:G:C3'	24:BA:2476:A:C2	2.94	0.41
24:BA:2708:G:OP1	38:BQ:68:ARG:CG	2.65	0.41
24:BA:2721:A:H3'	24:BA:2722:G:C8	2.55	0.41
24:BA:2746:U:H2'	24:BA:2747:G:H8	1.86	0.41
24:BA:2781:A:O3'	24:BA:2782:G:C4'	2.66	0.41
24:BA:322:A:O2'	24:BA:323:G:OP2	2.37	0.41
24:BA:398:G:H2'	24:BA:399:G:O4'	2.21	0.41
24:BA:408:G:O5'	24:BA:408:G:C8	2.64	0.41
24:BA:480:A:C2'	24:BA:481:G:OP1	2.68	0.41
24:BA:519:U:O5'	43:BV:75:TYR:HD1	2.02	0.41
24:BA:531:C:C2	24:BA:532:A:O2'	2.66	0.41
24:BA:594:U:N3	24:BA:595:C:N4	2.69	0.41
24:BA:622:G:C6	24:BA:623:G:N2	2.89	0.41
24:BA:631:A:C8	24:BA:631:A:OP1	2.73	0.41
24:BA:64:A:H2'	24:BA:65:C:O4'	2.21	0.41
24:BA:699:A:O5'	24:BA:699:A:H8	2.03	0.41
24:BA:774:A:H5'	24:BA:778:G:C4'	2.50	0.41
24:BA:879:G:C2	24:BA:880:G:C4	3.08	0.41
24:BA:930:U:O2	24:BA:932:G:N2	2.52	0.41
24:BA:956:G:C8	24:BA:956:G:C3'	3.04	0.41
24:BA:970:C:O2	24:BA:970:C:C2'	2.69	0.41
25:BB:44:G:H1'	25:BB:47:C:H42	1.85	0.41
25:BB:8:U:O2	25:BB:9:G:C8	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:136:ILE:H	27:BD:168:ARG:NH2	2.17	0.41
27:BD:201:HIS:HB3	27:BD:202:LYS:HD2	2.02	0.41
27:BD:265:PRO:O	27:BD:267:SER:N	2.53	0.41
27:BD:77:ALA:CB	27:BD:95:LEU:HD11	2.46	0.41
28:BE:119:ARG:HE	28:BE:120:TRP:CA	2.34	0.41
24:BA:2512:C:O4'	28:BE:139:GLY:HA3	2.20	0.41
28:BE:119:ARG:CZ	28:BE:155:LYS:CG	2.98	0.41
24:BA:659:C:C4'	29:BF:102:PRO:HD3	2.50	0.41
29:BF:133:ASN:CG	29:BF:162:LEU:CD1	2.89	0.41
30:BG:133:LEU:HD13	30:BG:133:LEU:HA	1.93	0.41
31:BH:22:GLY:O	31:BH:37:VAL:HG22	2.20	0.41
33:BL:108:ALA:O	33:BL:109:LYS:C	2.58	0.41
33:BL:104:VAL:O	33:BL:127:ILE:HD12	2.20	0.41
33:BL:9:LYS:HG2	33:BL:56:GLU:OE2	2.21	0.41
34:BM:30:ILE:O	34:BM:33:LEU:HD12	2.21	0.41
36:BO:111:ARG:CD	36:BO:129:ALA:HB2	2.50	0.41
36:BO:130:PHE:O	36:BO:131:SER:C	2.59	0.41
36:BO:45:LEU:HB3	36:BO:46:LYS:HE3	2.01	0.41
37:BP:130:LYS:HE2	37:BP:130:LYS:HB3	1.66	0.41
38:BQ:53:HIS:CE1	38:BQ:56:LYS:HE2	2.54	0.41
38:BQ:74:LYS:NZ	38:BQ:74:LYS:CB	2.72	0.41
40:BS:45:PHE:HE1	40:BS:86:ILE:CG2	2.33	0.41
41:BT:57:PHE:O	41:BT:60:LEU:N	2.54	0.41
42:BU:78:LYS:HG3	42:BU:79:VAL:N	2.35	0.41
24:BA:2010:G:OP2	43:BV:41:LYS:HE2	2.20	0.41
24:BA:58:G:OP1	44:BW:75:ASP:N	2.53	0.41
46:BY:24:LEU:HD12	46:BY:41:LEU:CD2	2.50	0.41
32:BK:86:THR:C	32:BK:122:GLU:O	2.58	0.41
32:BK:98:ALA:O	32:BK:102:SER:CB	2.68	0.41
24:BA:2115:G:O2'	24:BA:2171:A:N6	2.52	0.41
24:BA:2168:G:N2	24:BA:2170:A:C3'	2.79	0.41
26:BC:138:PRO:HA	26:BC:144:THR:HB	2.02	0.41
26:BC:214:VAL:HG23	26:BC:224:ILE:HG21	2.02	0.41
26:BC:52:ARG:CG	26:BC:53:ARG:N	2.84	0.41
26:BC:62:VAL:CG2	26:BC:63:SER:N	2.82	0.41
24:BA:1489:U:H4'	24:BA:1490:A:OP2	2.20	0.41
48:B1:10:LYS:N	48:B1:10:LYS:HD3	2.35	0.41
48:B1:3:LYS:O	48:B1:6:GLU:CB	2.68	0.41
1:AA:336:C:O2'	1:AA:337:C:H5'	2.20	0.41
24:BA:2101:G:C6	24:BA:2102:U:C4	3.09	0.41
24:BA:491:G:C4	24:BA:492:A:C8	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A1:37:U:H2'	2:A1:38:U:N3	2.36	0.41
1:AA:1068:G:H2'	1:AA:1069:C:O4'	2.20	0.41
1:AA:1151:A:N7	1:AA:1152:A:N7	2.69	0.41
1:AA:1181:G:H2'	1:AA:1182:G:C5'	2.51	0.41
1:AA:1255:G:N2	1:AA:1276:G:H21	2.16	0.41
1:AA:1256:A:O2'	1:AA:1257:U:C1'	2.67	0.41
1:AA:1314:C:OP2	21:AV:6:LYS:CB	2.68	0.41
1:AA:1346:A:C8	1:AA:1348:U:C4	3.09	0.41
1:AA:1377:A:H5''	1:AA:1378:C:C5	2.54	0.41
1:AA:1415:G:H2'	1:AA:1416:G:C5'	2.51	0.41
1:AA:1502:A:N1	1:AA:1504:G:C2	2.89	0.41
1:AA:1521:G:N3	1:AA:1522:U:C6	2.89	0.41
1:AA:188:U:H2'	1:AA:189:U:O5'	2.20	0.41
1:AA:253:U:H2'	1:AA:254:G:H8	1.85	0.41
1:AA:292:G:C8	1:AA:293:G:H1'	2.55	0.41
1:AA:317:G:C2	1:AA:318:G:C8	3.08	0.41
1:AA:390:C:C2	1:AA:391:G:N7	2.88	0.41
1:AA:541:G:H2'	1:AA:542:G:C8	2.53	0.41
1:AA:552:U:H2'	1:AA:553:A:O4'	2.20	0.41
1:AA:577:G:HO2'	1:AA:578:C:P	2.42	0.41
1:AA:68:G:C4'	1:AA:171:A:C1'	2.98	0.41
1:AA:570:G:OP2	1:AA:820:U:O2'	2.39	0.41
1:AA:874:G:C6	1:AA:875:C:C4	3.08	0.41
1:AA:897:C:H2'	1:AA:898:G:O5'	2.20	0.41
1:AA:970:C:C5'	1:AA:972:C:C6	3.03	0.41
1:AA:981:U:OP2	1:AA:981:U:C5	2.73	0.41
1:AA:989:C:H2'	1:AA:990:C:C5'	2.48	0.41
3:AB:12:U:O5'	3:AB:12:U:H6	2.03	0.41
3:AB:32:U:C4	3:AB:33:U:C4	3.08	0.41
3:AC:15:G:N3	3:AC:15:G:H2'	2.36	0.41
3:AC:21:A:N6	3:AC:46:G:H1	2.17	0.41
4:AE:157:ARG:O	4:AE:158:LEU:CG	2.68	0.41
4:AE:180:LEU:O	4:AE:181:PHE:CB	2.61	0.41
4:AE:89:GLY:O	4:AE:90:MET:HG2	2.20	0.41
5:AF:94:LEU:O	5:AF:95:THR:CG2	2.67	0.41
5:AF:97:LYS:O	5:AF:98:ASN:O	2.37	0.41
6:AG:106:TYR:CZ	6:AG:112:VAL:O	2.73	0.41
6:AG:3:ARG:HH11	6:AG:3:ARG:HG3	1.85	0.41
6:AG:4:TYR:CZ	6:AG:5:ILE:O	2.73	0.41
7:AH:135:THR:HG22	7:AH:139:LEU:HD11	2.02	0.41
1:AA:923:A:H5''	7:AH:21:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:28:PHE:HE1	7:AH:49:PRO:O	2.04	0.41
7:AH:79:GLU:HG3	7:AH:93:PRO:HD3	2.00	0.41
8:AI:4:TYR:CA	8:AI:93:SER:OG	2.68	0.41
8:AI:76:ALA:CA	8:AI:79:LEU:HG	2.50	0.41
9:AJ:72:ARG:HH11	9:AJ:72:ARG:CG	2.32	0.41
9:AJ:88:PRO:HD2	9:AJ:152:ALA:HA	2.01	0.41
1:AA:643:C:O2'	10:AK:132:GLU:CD	2.58	0.41
10:AK:14:ARG:NE	10:AK:15:ASN:ND2	2.68	0.41
11:AL:113:LYS:C	11:AL:115:GLY:H	2.21	0.41
11:AL:3:GLN:HG3	11:AL:20:ARG:HD3	2.02	0.41
12:AM:34:VAL:HG13	12:AM:74:ILE:HG12	2.02	0.41
13:AN:54:ARG:O	13:AN:57:THR:N	2.54	0.41
13:AN:21:ILE:HD11	13:AN:82:VAL:HG11	2.03	0.41
14:AO:7:ILE:O	14:AO:10:LEU:HB2	2.21	0.41
14:AO:62:SER:O	14:AO:64:TYR:N	2.53	0.41
14:AO:69:TYR:O	14:AO:100:ILE:HD11	2.21	0.41
15:AP:10:PRO:O	15:AP:45:VAL:HG11	2.20	0.41
15:AP:24:GLY:C	15:AP:25:ILE:HG12	2.41	0.41
16:AQ:41:ARG:HA	16:AQ:44:LEU:HD22	2.02	0.41
16:AQ:47:LEU:HA	16:AQ:47:LEU:HD23	1.67	0.41
17:AR:18:PHE:C	17:AR:20:GLY:H	2.23	0.41
1:AA:728:A:C5'	17:AR:54:ARG:HH22	2.32	0.41
19:AT:10:VAL:HG11	19:AT:53:LEU:N	2.36	0.41
19:AT:36:ILE:N	19:AT:36:ILE:CD1	2.65	0.41
19:AT:27:PHE:O	19:AT:36:ILE:HG12	2.20	0.41
19:AT:78:GLU:HG3	19:AT:79:SER:N	2.34	0.41
20:AU:53:ARG:C	20:AU:55:ARG:H	2.23	0.41
20:AU:78:LEU:C	20:AU:79:LEU:CD1	2.82	0.41
22:AW:53:LEU:HB2	22:AW:100:ILE:CD1	2.50	0.41
22:AW:51:GLU:HG2	22:AW:51:GLU:H	1.65	0.41
22:AW:74:LYS:H	22:AW:74:LYS:HD3	1.86	0.41
48:B1:15:GLU:O	48:B1:17:GLU:N	2.54	0.41
48:B1:30:LEU:HD13	48:B1:45:ILE:HA	2.03	0.41
48:B1:58:VAL:O	48:B1:60:ASN:N	2.53	0.41
49:B2:2:PRO:O	49:B2:39:ASP:HB2	2.20	0.41
49:B2:55:ARG:HH21	49:B2:55:ARG:CG	2.30	0.41
50:B3:48:ARG:H	50:B3:52:THR:HG1	1.67	0.41
51:B4:29:THR:O	51:B4:30:LEU:HG	2.21	0.41
24:BA:2017:U:C2'	51:B4:8:LYS:O	2.68	0.41
24:BA:1028:A:O2'	24:BA:1029:A:H5'	2.19	0.41
24:BA:1112:G:O4'	24:BA:1112:G:P	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1152:C:OP1	41:BT:81:HIS:CE1	2.73	0.41
24:BA:1157:G:C2	24:BA:1158:C:C2	3.09	0.41
24:BA:1168:G:H8	24:BA:1168:G:O5'	2.04	0.41
24:BA:1255:U:OP1	24:BA:1256:G:H4'	2.20	0.41
24:BA:1319:G:HO2'	24:BA:1320:C:H5'	1.84	0.41
24:BA:1343:G:C2	24:BA:1405:U:C6	3.08	0.41
24:BA:1467:C:H4'	24:BA:1467:C:OP1	2.20	0.41
24:BA:1491:G:H4'	27:BD:72:LYS:HZ1	1.84	0.41
24:BA:1521:G:H8	24:BA:1522:G:O4'	2.03	0.41
24:BA:1535:U:N3	24:BA:1536:A:C4	2.88	0.41
24:BA:1629:U:H1'	24:BA:2699:C:P	2.61	0.41
24:BA:1731:G:N2	24:BA:1732:A:OP2	2.50	0.41
24:BA:1754:C:H5	40:BS:98:LYS:CD	2.33	0.41
24:BA:1777:U:O2'	24:BA:1778:U:C5'	2.54	0.41
24:BA:1854:A:H2'	24:BA:1855:G:O4'	2.20	0.41
24:BA:1889:A:H2'	24:BA:1890:A:H8	1.77	0.41
24:BA:1903:G:C5	24:BA:1904:G:N7	2.88	0.41
24:BA:1913:A:N3	24:BA:1913:A:C2'	2.84	0.41
24:BA:1946:U:O2'	24:BA:1947:C:O5'	2.27	0.41
24:BA:1967:C:N3	24:BA:1968:G:N3	2.68	0.41
24:BA:1900:A:C2	24:BA:1970:A:N6	2.89	0.41
24:BA:1995:U:C5	24:BA:1996:C:H5	2.33	0.41
24:BA:199:A:C2	24:BA:2433:A:C4	3.07	0.41
24:BA:202:U:H2'	24:BA:203:C:N1	2.36	0.41
24:BA:2056:G:C2'	24:BA:2056:G:N3	2.79	0.41
24:BA:2075:U:C2'	24:BA:2076:U:H5''	2.40	0.41
24:BA:2082:A:H2'	24:BA:2083:G:C8	2.54	0.41
24:BA:2093:G:C1'	32:BK:29:TYR:CD2	3.03	0.41
24:BA:2285:C:H4'	24:BA:2288:A:C6	2.55	0.41
24:BA:2320:A:C2	24:BA:2334:G:OP1	2.74	0.41
24:BA:222:A:N6	24:BA:232:G:N3	2.69	0.41
24:BA:2392:A:C2'	24:BA:2393:A:H5'	2.51	0.41
24:BA:2392:A:N1	24:BA:2424:C:O2	2.53	0.41
24:BA:247:G:C6	54:B7:11:LYS:NZ	2.87	0.41
24:BA:2491:U:C5	24:BA:2492:U:O5'	2.73	0.41
24:BA:2505:G:C8	24:BA:2505:G:C3'	3.03	0.41
24:BA:2527:C:P	24:BA:2527:C:H3'	2.59	0.41
24:BA:2533:A:OP1	24:BA:2665:A:H4'	2.21	0.41
24:BA:2545:G:HO2'	24:BA:2565:A:N6	2.17	0.41
24:BA:2510:C:N4	24:BA:2575:C:N3	2.68	0.41
24:BA:2627:G:O2'	24:BA:2628:C:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2631:G:C5	24:BA:2632:A:C8	3.08	0.41
24:BA:266:G:H2'	24:BA:267:C:O5'	2.21	0.41
24:BA:2688:U:HO2'	24:BA:2689:U:P	2.41	0.41
24:BA:2729:G:H2'	24:BA:2730:C:O4'	2.20	0.41
24:BA:2784:C:O2'	28:BE:36:ARG:NH2	2.53	0.41
24:BA:2812:G:C6	24:BA:2813:A:C6	3.08	0.41
24:BA:2822:G:C8	24:BA:2822:G:OP2	2.73	0.41
24:BA:2847:U:C6	24:BA:2848:G:C8	3.09	0.41
24:BA:2899:G:H2'	24:BA:2900:A:H8	1.84	0.41
24:BA:292:C:C3'	24:BA:293:U:C2	3.02	0.41
24:BA:357:A:C5	24:BA:358:U:C5	3.08	0.41
24:BA:412:A:H2'	24:BA:413:C:H5'	2.01	0.41
24:BA:573:G:C3'	24:BA:574:C:H5''	2.51	0.41
24:BA:577:G:C6	24:BA:578:A:C5	3.09	0.41
24:BA:598:G:O2'	36:BO:14:LYS:CE	2.67	0.41
24:BA:724:U:O2	24:BA:725:G:O4'	2.38	0.41
24:BA:730:C:O5'	24:BA:761:A:OP1	2.38	0.41
24:BA:820:A:C2'	24:BA:821:A:C5'	2.86	0.41
24:BA:849:A:H3'	24:BA:850:C:H6	1.85	0.41
24:BA:860:U:H6	24:BA:2267:A:C5'	2.33	0.41
24:BA:885:C:N4	24:BA:889:C:C1'	2.80	0.41
24:BA:914:C:H5	24:BA:915:C:H5	1.64	0.41
24:BA:942:G:O3'	36:BO:32:THR:CA	2.68	0.41
24:BA:954:G:C6	24:BA:964:C:N3	2.87	0.41
25:BB:65:C:C4	25:BB:108:C:C5	3.09	0.41
25:BB:45:A:N6	25:BB:46:A:C2	2.88	0.41
25:BB:46:A:O2'	25:BB:47:C:C5'	2.68	0.41
25:BB:6:C:N3	25:BB:115:G:N2	2.69	0.41
25:BB:85:G:N1	25:BB:86:G:C5	2.88	0.41
27:BD:134:ARG:HA	27:BD:168:ARG:NH2	2.34	0.41
27:BD:161:THR:N	27:BD:196:VAL:CG2	2.83	0.41
27:BD:212:SER:O	27:BD:215:LEU:HB2	2.20	0.41
27:BD:85:ASP:OD2	27:BD:87:ASN:ND2	2.53	0.41
28:BE:119:ARG:CD	28:BE:156:MET:N	2.83	0.41
28:BE:61:ARG:CB	28:BE:62:PRO:CD	2.99	0.41
28:BE:97:LYS:CG	28:BE:100:GLU:CD	2.87	0.41
29:BF:132:VAL:HG22	29:BF:135:LYS:HB3	2.02	0.41
29:BF:149:ASP:HA	29:BF:172:TRP:NE1	2.36	0.41
29:BF:39:TRP:HZ3	29:BF:43:LYS:HB2	1.86	0.41
29:BF:78:ILE:HD13	29:BF:83:PHE:HZ	1.85	0.41
30:BG:110:ALA:CB	30:BG:139:LEU:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:176:LEU:C	30:BG:176:LEU:HD13	2.40	0.41
30:BG:44:GLY:CA	30:BG:72:ARG:CB	2.97	0.41
30:BG:86:MET:H	30:BG:87:PRO:HD2	1.81	0.41
31:BH:167:GLU:C	31:BH:169:VAL:N	2.74	0.41
31:BH:25:LYS:HZ3	31:BH:27:LYS:NZ	2.17	0.41
31:BH:7:LEU:HB3	31:BH:65:HIS:CD2	2.55	0.41
32:BK:40:THR:HG22	32:BK:41:GLU:H	1.84	0.41
33:BL:37:PHE:HE2	33:BL:65:PHE:CA	2.32	0.41
34:BM:103:VAL:HG22	34:BM:104:LYS:CE	2.49	0.41
34:BM:21:LYS:CB	34:BM:26:LEU:HD22	2.50	0.41
34:BM:43:THR:O	34:BM:44:PRO:C	2.58	0.41
34:BM:22:THR:CG2	34:BM:61:ARG:CZ	2.98	0.41
35:BN:103:ALA:CB	35:BN:107:ARG:CZ	2.98	0.41
35:BN:14:THR:OG1	35:BN:16:ALA:C	2.58	0.41
35:BN:85:VAL:CG1	35:BN:93:PRO:HB3	2.47	0.41
29:BF:31:HIS:CG	36:BO:14:LYS:HZ2	2.38	0.41
37:BP:130:LYS:O	37:BP:131:ILE:HG13	2.21	0.41
24:BA:958:U:C6	37:BP:41:TRP:HH2	2.39	0.41
37:BP:79:LEU:O	37:BP:80:GLU:HG3	2.20	0.41
37:BP:88:GLY:O	37:BP:89:ASN:HB2	2.20	0.41
37:BP:8:LYS:NZ	37:BP:11:LYS:HZ3	2.16	0.41
24:BA:2723:C:O3'	38:BQ:2:ARG:N	2.53	0.41
39:BR:14:VAL:CG1	39:BR:15:ARG:N	2.64	0.41
39:BR:36:TYR:CD1	39:BR:37:ALA:N	2.89	0.41
39:BR:95:HIS:C	39:BR:99:LYS:HB2	2.40	0.41
40:BS:33:LYS:HB2	40:BS:45:PHE:CD1	2.56	0.41
41:BT:61:TRP:O	41:BT:64:ARG:N	2.53	0.41
41:BT:62:ILE:HG22	41:BT:63:VAL:HG23	2.03	0.41
42:BU:12:TYR:HE1	42:BU:14:VAL:CB	2.30	0.41
42:BU:31:ALA:O	42:BU:32:THR:C	2.59	0.41
43:BV:88:ARG:O	43:BV:89:ALA:CB	2.69	0.41
44:BW:5:TYR:O	44:BW:7:VAL:HG12	2.19	0.41
44:BW:47:PHE:CZ	44:BW:92:LEU:HD11	2.45	0.41
45:BX:19:LYS:NZ	45:BX:39:VAL:HG12	2.36	0.41
46:BY:118:GLN:CD	46:BY:118:GLN:C	2.79	0.41
25:BB:103:U:H4'	46:BY:97:GLU:OE2	2.20	0.41
47:BZ:21:LEU:HD11	47:BZ:40:GLN:N	2.36	0.41
47:BZ:20:ARG:HB3	47:BZ:24:LYS:HZ1	1.85	0.41
24:BA:2169:A:N1	24:BA:2170:A:C6	2.88	0.41
26:BC:120:MET:HE1	26:BC:145:VAL:HG22	2.02	0.41
26:BC:68:LEU:CD2	26:BC:156:ILE:O	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:163:PHE:HE1	26:BC:196:LEU:N	2.19	0.41
26:BC:201:PRO:C	26:BC:203:GLY:H	2.22	0.41
26:BC:41:VAL:CG1	26:BC:216:THR:HG22	2.47	0.41
26:BC:36:LYS:HA	26:BC:36:LYS:HD2	1.85	0.41
26:BC:43:VAL:O	26:BC:44:HIS:ND1	2.53	0.41
26:BC:59:ARG:NH2	26:BC:164:ARG:NH1	2.69	0.41
1:AA:131:C:H2'	1:AA:131:C:O2	2.19	0.41
2:A1:21:G:C2'	2:A1:22:C:O4'	2.69	0.41
3:AB:67:C:O2	3:AB:67:C:C2'	2.67	0.41
2:A1:15:U:O5'	2:A1:15:U:H6	2.04	0.41
2:A1:35:U:P	2:A1:35:U:H6	2.43	0.41
1:AA:993:G:C2	1:AA:1046:A:C2	3.08	0.41
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.20	0.41
1:AA:1202:G:O2'	1:AA:1203:C:O5'	2.38	0.41
1:AA:1301:U:C5	1:AA:1303:C:C5	3.09	0.41
1:AA:1363:A:H4'	1:AA:1364:U:O5'	2.21	0.41
1:AA:149:A:C6	1:AA:150:C:N4	2.88	0.41
1:AA:103:C:C1'	1:AA:151:A:C2	3.01	0.41
1:AA:815:A:N6	1:AA:1529:G:C4	2.89	0.41
1:AA:20:U:O2'	1:AA:21:G:C5'	2.65	0.41
1:AA:248:C:O4'	1:AA:282:A:H2	2.03	0.41
1:AA:118:U:C4	1:AA:288:A:H2'	2.52	0.41
1:AA:319:G:C2'	1:AA:320:C:C5'	2.98	0.41
1:AA:134:A:C5	1:AA:325:A:C2	3.09	0.41
1:AA:449:C:N1	1:AA:450:G:H1'	2.27	0.41
1:AA:46:G:C4	1:AA:396:G:N1	2.88	0.41
1:AA:448:A:C5	1:AA:487:A:C2	3.08	0.41
1:AA:50:A:N1	1:AA:360:A:O2'	2.31	0.41
1:AA:509:A:N7	1:AA:510:A:N6	2.68	0.41
1:AA:558:G:H5''	1:AA:559:A:C5'	2.51	0.41
1:AA:63:C:N3	1:AA:105:G:C6	2.88	0.41
1:AA:690:G:C2'	1:AA:691:G:O5'	2.69	0.41
1:AA:721:G:O2'	1:AA:722:A:C2	2.63	0.41
1:AA:723:U:H6	2:A1:30:U:C4'	2.34	0.41
1:AA:667:G:C2	1:AA:740:U:C2	3.09	0.41
1:AA:833:U:H2'	1:AA:834:C:H6	1.85	0.41
1:AA:834:C:O2'	1:AA:835:U:C4'	2.69	0.41
1:AA:838:G:N2	1:AA:849:C:C2	2.88	0.41
1:AA:869:G:H5''	1:AA:870:U:OP1	2.21	0.41
1:AA:986:A:H2'	1:AA:987:G:C8	2.56	0.41
3:AC:6:G:C4	3:AC:7:A:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:5:G:H2'	3:AD:5:G:N3	2.36	0.41
3:AD:76:A:OP1	24:BA:2421:G:N2	2.53	0.41
4:AE:158:LEU:O	4:AE:160:ASP:OD2	2.38	0.41
4:AE:162:ILE:CD1	4:AE:162:ILE:N	2.80	0.41
4:AE:201:ILE:H	4:AE:201:ILE:HD12	1.86	0.41
4:AE:42:ILE:HD12	4:AE:203:GLY:N	2.36	0.41
4:AE:20:GLU:OE2	4:AE:205:ASP:OD2	2.39	0.41
4:AE:36:ARG:NE	4:AE:36:ARG:HA	2.35	0.41
4:AE:59:GLU:N	4:AE:221:LEU:HD11	2.36	0.41
5:AF:72:LYS:O	5:AF:76:VAL:CB	2.68	0.41
6:AG:63:LYS:CD	6:AG:63:LYS:H	2.32	0.41
7:AH:55:VAL:O	7:AH:56:GLN:C	2.56	0.41
8:AI:65:VAL:HG23	8:AI:66:GLU:C	2.40	0.41
9:AJ:69:VAL:HA	9:AJ:135:VAL:HG13	2.02	0.41
10:AK:39:LEU:C	10:AK:39:LEU:CD1	2.88	0.41
10:AK:49:GLU:OE1	10:AK:49:GLU:C	2.59	0.41
11:AL:118:LYS:HA	11:AL:118:LYS:HD3	1.79	0.41
11:AL:50:LEU:CD2	11:AL:56:LEU:HB2	2.51	0.41
13:AN:22:HIS:HA	13:AN:85:ARG:O	2.21	0.41
14:AO:46:LYS:CE	14:AO:47:LYS:NZ	2.75	0.41
14:AO:6:THR:CB	14:AO:9:GLN:OE1	2.69	0.41
15:AP:14:ARG:NE	15:AP:44:ARG:HH11	2.19	0.41
15:AP:69:GLU:OE1	15:AP:69:GLU:C	2.58	0.41
5:AF:6:HIS:CB	16:AQ:49:HIS:CE1	3.01	0.41
17:AR:79:ARG:CZ	17:AR:79:ARG:HB2	2.51	0.41
18:AS:34:GLU:OE1	18:AS:36:ILE:HG23	2.20	0.41
18:AS:35:LYS:NZ	18:AS:37:GLY:CA	2.83	0.41
1:AA:273:A:C1'	19:AT:16:GLN:OE1	2.66	0.41
22:AW:64:ASP:C	22:AW:66:ALA:N	2.71	0.41
48:B1:36:ILE:O	48:B1:37:GLY:C	2.59	0.41
49:B2:3:ARG:O	49:B2:59:VAL:O	2.39	0.41
50:B3:17:GLY:CA	50:B3:33:VAL:HG12	2.50	0.41
50:B3:55:ARG:HB3	50:B3:56:VAL:H	1.57	0.41
50:B3:60:GLN:H	50:B3:60:GLN:HG2	1.75	0.41
51:B4:20:ARG:C	51:B4:23:HIS:HB2	2.33	0.41
51:B4:55:ARG:O	51:B4:57:VAL:HG13	2.21	0.41
52:B5:19:ARG:O	52:B5:20:ASN:CB	2.68	0.41
52:B5:19:ARG:O	52:B5:20:ASN:CG	2.59	0.41
52:B5:51:GLU:O	52:B5:52:VAL:C	2.59	0.41
55:B8:9:ARG:CZ	55:B8:16:VAL:HB	2.50	0.41
24:BA:1022:G:N7	34:BM:65:LYS:CE	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1056:G:H5'	24:BA:1057:A:OP1	2.20	0.41
24:BA:1066:U:O2'	24:BA:1068:G:C8	2.60	0.41
24:BA:1083:U:H1'	24:BA:1085:A:C6	2.56	0.41
24:BA:1260:G:C2	24:BA:1261:C:C6	3.09	0.41
24:BA:1287:A:N3	24:BA:1287:A:C2'	2.82	0.41
24:BA:1314:C:N3	24:BA:1315:C:C4	2.88	0.41
24:BA:149:A:C8	24:BA:149:A:C3'	2.98	0.41
24:BA:1519:G:H3'	24:BA:1520:U:O4'	2.18	0.41
24:BA:1605:C:C5	24:BA:1606:G:C5	3.09	0.41
24:BA:1670:C:C3'	24:BA:1671:U:H5'	2.51	0.41
24:BA:1718:G:C2'	24:BA:1725:G:H8	2.05	0.41
24:BA:180:G:N2	24:BA:214:G:O6	2.53	0.41
24:BA:1808:U:C2	24:BA:1810:A:H2	2.38	0.41
24:BA:1946:U:C2'	24:BA:1947:C:O5'	2.68	0.41
24:BA:198:C:C6	24:BA:198:C:O5'	2.74	0.41
24:BA:1993:U:C6	24:BA:1994:C:C5	2.93	0.41
24:BA:2003:G:O6	24:BA:2004:G:C6	2.74	0.41
24:BA:2027:G:C4	24:BA:2028:U:C6	3.08	0.41
24:BA:571:A:C6	24:BA:2030:A:N1	2.89	0.41
24:BA:2041:U:H6	24:BA:2041:U:OP2	2.03	0.41
24:BA:2056:G:N2	24:BA:2057:A:C4	2.88	0.41
24:BA:2088:G:O2'	24:BA:2089:U:H5'	2.21	0.41
24:BA:2199:A:C4	24:BA:2205:C:C6	3.09	0.41
24:BA:2249:U:O2'	24:BA:2275:C:C2	2.73	0.41
24:BA:225:A:N6	24:BA:226:G:C6	2.89	0.41
24:BA:2469:A:N7	24:BA:2470:G:C8	2.88	0.41
24:BA:2511:U:O4	24:BA:2512:C:N4	2.54	0.41
24:BA:2525:G:C2	24:BA:2539:C:C4	3.07	0.41
24:BA:2615:U:H6	24:BA:2615:U:H5'	1.84	0.41
24:BA:2842:G:C2	24:BA:2843:G:H1'	2.55	0.41
24:BA:331:A:C4	24:BA:1209:G:N1	2.89	0.41
24:BA:447:A:C1'	24:BA:449:A:N6	2.70	0.41
24:BA:452:G:N2	24:BA:458:G:H21	2.19	0.41
24:BA:511:U:C5	24:BA:512:G:H1'	2.55	0.41
24:BA:521:G:C2	24:BA:522:G:C8	3.09	0.41
24:BA:52:A:C5	24:BA:118:A:C2	3.08	0.41
24:BA:533:G:C5	24:BA:534:U:C4	3.08	0.41
24:BA:558:G:N3	24:BA:559:G:C8	2.89	0.41
24:BA:663:G:C4'	36:BO:18:ARG:NE	2.69	0.41
24:BA:703:U:O4	24:BA:730:C:N4	2.54	0.41
24:BA:729:G:C5	24:BA:730:C:H1'	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:733:G:C8	24:BA:761:A:C6	3.08	0.41
24:BA:757:U:H2'	24:BA:758:C:O5'	2.20	0.41
24:BA:196:A:N6	24:BA:831:G:O2'	2.53	0.41
24:BA:84:A:O3'	24:BA:85:G:O4'	2.38	0.41
24:BA:864:G:C2'	24:BA:865:C:O4'	2.64	0.41
24:BA:928:G:C8	24:BA:929:G:C8	3.09	0.41
24:BA:987:G:C5	24:BA:988:A:C8	3.08	0.41
24:BA:994:C:C5'	24:BA:995:C:OP1	2.68	0.41
24:BA:996:A:C5	24:BA:1160:G:C2	3.08	0.41
25:BB:46:A:C2'	25:BB:47:C:O5'	2.68	0.41
25:BB:73:A:C5	25:BB:104:A:N3	2.88	0.41
24:BA:2217:G:C1'	27:BD:150:LYS:HZ2	2.30	0.41
27:BD:159:ALA:CB	27:BD:202:LYS:NZ	2.80	0.41
24:BA:1901:A:O2'	27:BD:244:ARG:HD2	2.20	0.41
27:BD:232:PRO:CG	27:BD:246:PRO:O	2.68	0.41
24:BA:1798:U:O5'	27:BD:257:LEU:HD12	2.19	0.41
27:BD:68:LYS:HG2	27:BD:152:GLY:HA2	2.03	0.41
27:BD:5:LYS:O	27:BD:6:PHE:O	2.39	0.41
24:BA:1656:C:C5'	28:BE:136:ARG:CZ	2.98	0.41
28:BE:154:LYS:CD	28:BE:154:LYS:O	2.69	0.41
28:BE:13:ARG:NE	28:BE:21:VAL:CA	2.83	0.41
28:BE:5:LEU:O	28:BE:195:LEU:HD22	2.21	0.41
28:BE:8:LYS:CE	28:BE:8:LYS:C	2.88	0.41
29:BF:136:THR:O	29:BF:139:PHE:N	2.53	0.41
29:BF:199:TRP:O	29:BF:203:GLN:OE1	2.39	0.41
30:BG:11:TYR:O	30:BG:15:VAL:CG2	2.67	0.41
30:BG:26:GLN:HE21	30:BG:31:VAL:HG21	1.82	0.41
30:BG:55:LYS:CE	30:BG:152:LEU:HD11	2.50	0.41
30:BG:55:LYS:HE2	30:BG:148:MET:HB3	2.02	0.41
30:BG:72:ARG:HA	30:BG:88:ILE:CD1	2.51	0.41
31:BH:121:ILE:HD12	31:BH:144:VAL:HG11	2.03	0.41
31:BH:155:SER:HB2	31:BH:159:GLU:HA	2.01	0.41
31:BH:76:VAL:O	31:BH:79:VAL:CG2	2.68	0.41
32:BK:17:GLN:O	32:BK:18:VAL:HG23	2.21	0.41
34:BM:10:GLU:HG2	34:BM:12:ARG:HH22	1.85	0.41
34:BM:74:ARG:HB2	34:BM:82:LEU:HA	2.03	0.41
34:BM:97:ARG:HA	34:BM:100:GLU:CB	2.51	0.41
36:BO:15:ARG:HA	36:BO:15:ARG:NE	2.35	0.41
36:BO:18:ARG:C	36:BO:20:GLY:N	2.74	0.41
36:BO:89:ALA:O	36:BO:124:LYS:O	2.38	0.41
37:BP:45:GLN:OE1	37:BP:45:GLN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:50:ALA:O	37:BP:54:MET:HG2	2.20	0.41
38:BQ:109:ALA:O	38:BQ:111:LEU:HG	2.20	0.41
38:BQ:116:LEU:H	38:BQ:116:LEU:CD2	2.25	0.41
38:BQ:115:GLU:HG2	38:BQ:116:LEU:O	2.20	0.41
38:BQ:57:ARG:NE	38:BQ:62:ALA:CB	2.68	0.41
39:BR:26:LEU:HD11	39:BR:37:ALA:CB	2.44	0.41
39:BR:28:VAL:CG2	39:BR:29:PHE:N	2.74	0.41
39:BR:78:LEU:CD1	39:BR:79:ALA:N	2.70	0.41
39:BR:96:GLY:O	39:BR:98:VAL:N	2.54	0.41
40:BS:104:ASN:C	40:BS:108:ARG:HH12	2.24	0.41
40:BS:65:LYS:CE	40:BS:75:ILE:CD1	2.98	0.41
41:BT:32:PHE:HB2	41:BT:33:ARG:H	1.49	0.41
41:BT:3:ARG:O	41:BT:4:ALA:CB	2.67	0.41
43:BV:5:ALA:CB	43:BV:105:VAL:O	2.55	0.41
46:BY:150:LEU:O	46:BY:171:ILE:CG2	2.68	0.41
46:BY:23:LYS:HE3	46:BY:38:TYR:CB	2.51	0.41
24:BA:2331:G:H4'	47:BZ:42:GLY:C	2.41	0.41
3:AD:48:C:N4	3:AD:59:U:C2	2.88	0.41
24:BA:2175:C:O2	24:BA:2175:C:C2'	2.66	0.41
26:BC:181:PRO:HB2	26:BC:184:LYS:HG3	2.02	0.41
26:BC:223:ARG:CB	26:BC:223:ARG:NH1	2.84	0.41
14:AO:126:LYS:O	14:AO:128:ALA:N	2.54	0.41
1:AA:1165:C:H2'	1:AA:1166:G:C5'	2.50	0.41
24:BA:1562:A:H2'	24:BA:1563:G:H8	1.85	0.41
1:AA:1536:C:C2	1:AA:1537:U:C5	3.08	0.41
1:AA:1537:U:N3	1:AA:1538:C:C5	2.89	0.41
1:AA:1001:G:C8	1:AA:1001:G:C3'	3.04	0.41
1:AA:1032(B):G:C2	1:AA:1033:G:C4	3.08	0.41
1:AA:1050:G:H2'	1:AA:1050:G:N3	2.35	0.41
1:AA:1081:G:OP1	7:AH:18:ARG:CA	2.69	0.41
1:AA:1144:G:N1	1:AA:1145:C:C2	2.89	0.41
1:AA:1157:A:N3	1:AA:1157:A:C2'	2.80	0.41
1:AA:1284:C:C6	1:AA:1285:A:C8	3.09	0.41
1:AA:1288:A:N3	1:AA:1352:C:O2'	2.49	0.41
1:AA:1291:G:C2	1:AA:1292:U:C2	3.07	0.41
1:AA:132:C:N3	1:AA:231:G:N2	2.67	0.41
1:AA:1331:G:O2'	1:AA:1332:A:P	2.78	0.41
1:AA:1234:C:C4'	1:AA:1364:U:O2'	2.68	0.41
1:AA:1387:G:O2'	1:AA:1388:C:H5'	2.21	0.41
1:AA:1405:G:H4'	1:AA:1519:A:C5'	2.50	0.41
1:AA:173:U:C5'	1:AA:197:A:C2'	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:354:G:C2	1:AA:355:C:C4	3.08	0.41
1:AA:429:U:O2	1:AA:431:A:N7	2.54	0.41
1:AA:458:C:C4	1:AA:464:G:C6	3.08	0.41
1:AA:468:A:H3'	1:AA:474:G:H8	1.85	0.41
1:AA:493:G:HO2'	1:AA:494:U:H6	1.64	0.41
1:AA:518:C:O2'	14:AO:50:SER:CB	2.66	0.41
1:AA:548:G:C6	1:AA:549:C:N4	2.89	0.41
1:AA:579:G:O4'	1:AA:728:A:H1'	2.20	0.41
1:AA:624:C:H4'	18:AS:10:GLY:C	2.41	0.41
1:AA:685:G:H4'	13:AN:40:ILE:HA	2.02	0.41
1:AA:698:G:C6	1:AA:699:C:N4	2.89	0.41
1:AA:725:G:H2'	1:AA:726:C:C6	2.56	0.41
1:AA:760:G:H5'	1:AA:761:G:OP2	2.20	0.41
1:AA:791:G:N7	1:AA:792:A:N7	2.69	0.41
1:AA:866:C:H5''	1:AA:867:G:C8	2.56	0.41
1:AA:937:A:N3	1:AA:1379:G:N1	2.68	0.41
1:AA:942:G:N2	11:AL:124:GLN:CD	2.74	0.41
1:AA:951:G:C2'	1:AA:970:C:O2'	2.68	0.41
1:AA:952:U:C2'	1:AA:953:G:H5'	2.50	0.41
1:AA:97:U:H6	1:AA:97:U:O5'	2.04	0.41
3:AC:19:G:H5''	3:AC:20:U:C5	2.56	0.41
4:AE:144:ARG:O	4:AE:147:LYS:N	2.54	0.41
4:AE:188:ALA:O	4:AE:205:ASP:HB3	2.21	0.41
4:AE:25:ASN:HD21	4:AE:27:LYS:HB2	1.85	0.41
4:AE:39:ILE:HG12	4:AE:40:HIS:O	2.21	0.41
4:AE:69:LEU:HD13	4:AE:70:PHE:H	1.84	0.41
4:AE:85:ALA:HB3	4:AE:92:TYR:CD1	2.56	0.41
5:AF:121:ALA:O	5:AF:122:GLU:C	2.57	0.41
5:AF:124:ILE:CD1	5:AF:130:VAL:CG1	2.97	0.41
5:AF:15:THR:HG21	5:AF:181:ASN:H	1.85	0.41
5:AF:172:ARG:HG2	5:AF:172:ARG:HH11	1.86	0.41
5:AF:191:THR:C	5:AF:193:TYR:N	2.73	0.41
5:AF:33:LEU:HD21	16:AQ:52:GLN:O	2.20	0.41
6:AG:11:LEU:O	6:AG:12:CYS:C	2.59	0.41
6:AG:193:ASP:OD2	6:AG:194:LEU:CD2	2.67	0.41
6:AG:200:GLU:C	6:AG:204:ILE:HD12	2.38	0.41
6:AG:62:GLN:HA	6:AG:62:GLN:NE2	2.36	0.41
7:AH:145:LYS:CA	7:AH:148:VAL:HG23	2.47	0.41
7:AH:78:HIS:ND1	10:AK:104:ARG:CD	2.82	0.41
8:AI:59:TYR:CE2	8:AI:61:LEU:HD21	2.55	0.41
9:AJ:118:VAL:HG12	9:AJ:122:HIS:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:104:ARG:HE	10:AK:138:TRP:HZ3	1.63	0.41
10:AK:18:ARG:H	10:AK:18:ARG:NE	2.18	0.41
10:AK:23:SER:HA	10:AK:62:TYR:CD1	2.55	0.41
10:AK:45:ILE:HD11	10:AK:48:TYR:CB	2.37	0.41
11:AL:31:GLN:HG2	11:AL:35:GLU:OE1	2.21	0.41
9:AJ:16:LEU:O	11:AL:41:VAL:CG1	2.69	0.41
11:AL:97:LYS:HZ2	11:AL:102:LEU:CD2	2.31	0.41
13:AN:42:TRP:C	13:AN:42:TRP:HE3	2.24	0.41
13:AN:50:TYR:CE2	13:AN:54:ARG:HB3	2.56	0.41
14:AO:117:ARG:O	14:AO:121:GLY:CA	2.68	0.41
14:AO:119:LYS:HB2	14:AO:119:LYS:HE3	1.67	0.41
14:AO:32:PHE:HB3	14:AO:86:ARG:HA	2.02	0.41
15:AP:69:GLU:O	15:AP:72:ALA:N	2.53	0.41
17:AR:34:LEU:HD12	17:AR:35:ARG:CA	2.50	0.41
17:AR:40:SER:O	17:AR:41:GLU:C	2.58	0.41
19:AT:14:LYS:O	19:AT:15:MET:O	2.39	0.41
19:AT:5:VAL:O	19:AT:6:LEU:CB	2.68	0.41
1:AA:255:G:P	19:AT:69:LYS:NZ	2.94	0.41
20:AU:40:LEU:O	20:AU:43:PHE:CD1	2.63	0.41
1:AA:192:U:C4'	22:AW:103:GLY:N	2.83	0.41
23:AX:5:ASP:O	23:AX:6:ARG:HG2	2.20	0.41
24:BA:74:A:C2	48:B1:46:ARG:NE	2.88	0.41
49:B2:9:VAL:CG2	49:B2:53:LEU:C	2.71	0.41
50:B3:22:ILE:N	50:B3:22:ILE:CD1	2.84	0.41
50:B3:28:LYS:CE	50:B3:29:PRO:HD2	2.40	0.41
51:B4:10:LYS:CD	51:B4:15:ARG:CZ	2.99	0.41
54:B7:4:MET:O	54:B7:5:LYS:O	2.39	0.41
55:B8:7:VAL:CG2	55:B8:36:GLN:NE2	2.77	0.41
24:BA:1047:G:C6	24:BA:1110:G:N7	2.89	0.41
24:BA:1057:A:C2	24:BA:1058:G:N7	2.89	0.41
24:BA:1102:C:C2	24:BA:1103:A:N7	2.88	0.41
24:BA:1107:G:O2'	24:BA:1108:U:H5'	2.19	0.41
24:BA:1141:U:HO2'	24:BA:1142:U:P	2.44	0.41
24:BA:1183:G:H4'	24:BA:1184:G:O4'	2.20	0.41
24:BA:1298:C:O2'	24:BA:1302:A:N7	2.54	0.41
24:BA:1342:A:N7	24:BA:1601:G:O6	2.53	0.41
24:BA:1355:G:N2	24:BA:1377:G:C1'	2.75	0.41
24:BA:1398:C:O3'	44:BW:25:LYS:NZ	2.43	0.41
24:BA:1491:G:N1	24:BA:1500:G:C2	2.89	0.41
24:BA:150:C:N3	24:BA:176:G:N2	2.59	0.41
24:BA:1479:G:N2	24:BA:1515:C:C4	2.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1517:G:C2	24:BA:1518:C:C2	3.08	0.41
24:BA:1649:G:C6	24:BA:1650:G:N7	2.89	0.41
24:BA:1679:U:O4	24:BA:1764:G:H5''	2.20	0.41
24:BA:1710:C:H1'	24:BA:2858:C:N4	2.33	0.41
24:BA:1807:G:H21	24:BA:1809:A:H4'	1.86	0.41
24:BA:1850:G:H2'	24:BA:1851:U:O4'	2.19	0.41
24:BA:1943:U:HO2'	24:BA:1944:U:P	2.39	0.41
24:BA:194:G:H8	24:BA:194:G:O5'	2.03	0.41
24:BA:194:G:C6	24:BA:195:A:C6	3.08	0.41
24:BA:1970:A:C6	24:BA:1972:A:N7	2.89	0.41
24:BA:205:G:O2'	24:BA:206:U:OP2	2.23	0.41
24:BA:2072:G:C2	24:BA:2073:C:C5	3.09	0.41
24:BA:2218:G:C6	24:BA:2219:G:C5	3.09	0.41
24:BA:379:G:H4'	24:BA:2232:U:H5''	2.02	0.41
24:BA:222:A:C8	24:BA:224:G:C8	3.09	0.41
24:BA:2286:A:C5'	24:BA:2287:A:H1'	2.49	0.41
24:BA:235:U:O5'	24:BA:235:U:H6	2.03	0.41
24:BA:2459:A:OP2	24:BA:2460:U:H5	2.01	0.41
24:BA:2469:A:OP2	24:BA:2476:A:C2	2.74	0.41
24:BA:2474:C:H2'	24:BA:2475:C:O5'	2.20	0.41
24:BA:247:G:N1	54:B7:11:LYS:NZ	2.68	0.41
24:BA:2482:G:H2'	24:BA:2483:C:C5'	2.48	0.41
24:BA:2490:G:HO2'	24:BA:2491:U:P	2.44	0.41
24:BA:2499:C:O2	24:BA:2499:C:C2'	2.67	0.41
24:BA:1128:A:C6	24:BA:2518:A:N6	2.76	0.41
24:BA:1953:A:H1'	24:BA:2560:C:O4'	2.21	0.41
24:BA:2595:G:N2	24:BA:2599:G:O6	2.54	0.41
24:BA:2690:C:N4	38:BQ:14:SER:OG	2.53	0.41
24:BA:2691:C:O4'	24:BA:2872:G:C5	2.74	0.41
24:BA:2692:C:C2	24:BA:2693:A:C8	3.09	0.41
24:BA:2706:G:C2	24:BA:2707:G:C4	3.08	0.41
24:BA:270(S):G:H2'	24:BA:270(T):G:H8	1.86	0.41
24:BA:271(C):U:O2'	24:BA:271:G:H4'	2.20	0.41
24:BA:2841:C:C2'	24:BA:2842:G:C8	2.87	0.41
24:BA:295:G:OP1	24:BA:338:G:O6	2.38	0.41
24:BA:416:C:C5	24:BA:417:C:C5	3.09	0.41
24:BA:454:A:O2'	24:BA:455:C:C2	2.68	0.41
24:BA:454:A:O3'	24:BA:455:C:O4'	2.38	0.41
24:BA:447:A:C4	24:BA:473:G:C8	3.08	0.41
24:BA:542:C:C2	24:BA:543:C:C6	3.08	0.41
24:BA:592:G:C6	24:BA:593:G:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:598:G:H21	24:BA:599:G:H1'	1.85	0.41
24:BA:601:C:H2'	24:BA:602:G:H5'	2.02	0.41
24:BA:671:C:C4	24:BA:672:C:N4	2.87	0.41
24:BA:725:G:O6	24:BA:726:G:N2	2.50	0.41
24:BA:733:G:H8	24:BA:733:G:OP2	2.04	0.41
24:BA:740:U:C1'	24:BA:1784:A:C5	3.04	0.41
24:BA:743:G:C6	24:BA:744:G:C6	3.09	0.41
24:BA:771:G:H2'	24:BA:772:C:H6	1.83	0.41
25:BB:77:U:C5	25:BB:98:G:N2	2.88	0.41
27:BD:148:GLU:C	27:BD:149:PRO:O	2.59	0.41
27:BD:142:VAL:HB	27:BD:191:ALA:HB1	2.01	0.41
27:BD:270:ILE:C	27:BD:271:ILE:HG13	2.40	0.41
27:BD:59:LYS:O	27:BD:62:TYR:OH	2.38	0.41
27:BD:37:LEU:CG	27:BD:63:ARG:HA	2.49	0.41
28:BE:46:ALA:HB2	28:BE:85:ASN:OD1	2.21	0.41
29:BF:120:GLU:OE1	29:BF:120:GLU:N	2.53	0.41
29:BF:124:LEU:HG	29:BF:197:ASP:HB2	2.02	0.41
29:BF:192:LEU:CD1	29:BF:192:LEU:C	2.87	0.41
29:BF:205:ARG:O	29:BF:206:ILE:C	2.59	0.41
30:BG:152:LEU:HB2	30:BG:155:MET:CE	2.50	0.41
30:BG:39:ILE:CG1	30:BG:157:ILE:HG13	2.48	0.41
30:BG:19:LEU:CA	30:BG:22:ARG:HG2	2.51	0.41
30:BG:54:GLU:CD	30:BG:70:VAL:HG22	2.41	0.41
30:BG:77:ILE:C	30:BG:83:ARG:NE	2.73	0.41
30:BG:90:LEU:O	30:BG:90:LEU:CD1	2.68	0.41
31:BH:35:VAL:HA	31:BH:36:PRO:HD2	1.74	0.41
31:BH:5:GLY:O	31:BH:6:ARG:CB	2.69	0.41
33:BL:12:LEU:CB	33:BL:13:PRO:CD	2.97	0.41
33:BL:99:ILE:HD12	33:BL:136:VAL:CG1	2.51	0.41
34:BM:53:VAL:HG12	34:BM:130:HIS:NE2	2.36	0.41
34:BM:34:LEU:HA	34:BM:49:GLY:CA	2.50	0.41
34:BM:58:ASP:OD1	34:BM:59:LYS:HG3	2.20	0.41
35:BN:78:ARG:N	35:BN:78:ARG:CD	2.84	0.41
36:BO:46:LYS:NZ	36:BO:50:ARG:CZ	2.83	0.41
37:BP:6:ARG:CD	37:BP:7:MET:N	2.84	0.41
38:BQ:74:LYS:HD3	38:BQ:74:LYS:H	1.86	0.41
38:BQ:45:ARG:CA	38:BQ:95:THR:HG21	2.50	0.41
39:BR:38:GLN:NE2	39:BR:47:THR:HG21	2.36	0.41
39:BR:67:ARG:NH2	39:BR:67:ARG:CG	2.78	0.41
39:BR:73:LEU:HA	39:BR:76:LYS:HB3	2.01	0.41
39:BR:9:ARG:HA	39:BR:12:PHE:HE2	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:16:ARG:HH11	40:BS:16:ARG:HG3	1.86	0.41
40:BS:64:ARG:CD	40:BS:65:LYS:H	1.99	0.41
41:BT:108:GLU:OE2	41:BT:108:GLU:N	2.51	0.41
41:BT:40:PHE:CD2	42:BU:78:LYS:CE	3.03	0.41
24:BA:1009:A:C4'	41:BT:62:ILE:HG21	2.46	0.41
41:BT:86:ALA:O	41:BT:90:VAL:HG21	2.21	0.41
42:BU:100:ARG:NE	42:BU:100:ARG:HA	2.36	0.41
42:BU:1:MET:HB3	42:BU:15:GLU:CG	2.50	0.41
42:BU:83:ARG:CG	42:BU:84:LYS:N	2.83	0.41
44:BW:25:LYS:O	44:BW:26:TYR:CD1	2.73	0.41
44:BW:52:VAL:O	44:BW:53:LYS:O	2.37	0.41
24:BA:2261:C:N4	47:BZ:15:ASP:O	2.53	0.41
47:BZ:27:GLU:HA	47:BZ:69:PHE:CE1	2.56	0.41
3:AD:62:C:O2'	26:BC:53:ARG:CG	2.55	0.41
26:BC:21:THR:HG22	26:BC:225:ASN:ND2	2.35	0.41
26:BC:19:ILE:CD1	26:BC:223:ARG:HB3	2.19	0.41
26:BC:32:LEU:HD13	26:BC:220:PRO:HG2	2.01	0.41
26:BC:64:LEU:HD22	26:BC:188:ASN:O	2.20	0.41
26:BC:65:PRO:O	26:BC:66:HIS:CB	2.68	0.41
26:BC:66:HIS:NE2	26:BC:184:LYS:HD3	2.36	0.41
24:BA:2103:C:N3	24:BA:2104:G:N7	2.68	0.41
2:A1:44:U:N3	2:A1:45:U:C5	2.89	0.41
3:AB:72:C:N3	3:AB:73:A:N7	2.68	0.41
24:BA:491:G:H3'	24:BA:492:A:H8	1.85	0.41
1:AA:1029:G:N3	1:AA:1031:G:OP2	2.54	0.41
1:AA:1030:C:H2'	1:AA:1031:G:C8	2.55	0.41
11:AL:99:LEU:HD22	11:AL:99:LEU:H	1.86	0.41
1:AA:1065:U:C2'	1:AA:1065:U:O2	2.57	0.41
1:AA:1101:A:H1'	1:AA:1102:A:O4'	2.21	0.41
1:AA:1115:C:C4	1:AA:1116:C:C4	3.09	0.41
1:AA:1135:U:O3'	1:AA:1136:U:C6	2.70	0.41
1:AA:1157:A:C6	1:AA:1180:A:C6	3.09	0.41
1:AA:1188:A:H2'	1:AA:1189:C:C6	2.56	0.41
1:AA:1221:G:C6	1:AA:1222:G:C5	3.08	0.41
1:AA:129(A):G:HO2'	1:AA:130:A:P	2.37	0.41
1:AA:1311:G:OP2	21:AV:2:PRO:CD	2.69	0.41
1:AA:1318:A:H8	1:AA:1318:A:O5'	2.04	0.41
1:AA:1371:G:C6	1:AA:1372:U:C4	3.08	0.41
1:AA:1423:G:C6	1:AA:1424:C:C4	3.09	0.41
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.85	0.41
1:AA:1425:U:O2	1:AA:1476:G:C2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1540:U:O5'	1:AA:1540:U:C6	2.74	0.41
1:AA:217:C:C4	1:AA:218:C:C4	3.09	0.41
1:AA:323:U:C5	1:AA:324:G:C4	2.98	0.41
1:AA:380:G:H2'	1:AA:382:A:OP2	2.20	0.41
1:AA:427:U:C6	1:AA:427:U:O5'	2.64	0.41
1:AA:437:U:C5	1:AA:438:G:C5	3.09	0.41
1:AA:498:A:H4'	1:AA:500:G:C5'	2.47	0.41
1:AA:563:A:O2'	1:AA:566:G:C2'	2.68	0.41
1:AA:592:G:C6	1:AA:648:A:N6	2.89	0.41
1:AA:619:U:O2	1:AA:619:U:H2'	2.20	0.41
1:AA:681:C:O2'	1:AA:682:G:H5'	2.20	0.41
1:AA:782:A:C8	1:AA:783:C:C5	3.08	0.41
1:AA:937:A:C8	1:AA:938:A:N7	2.88	0.41
1:AA:949:A:HO2'	1:AA:1364:U:H3	1.63	0.41
1:AA:971:G:O5'	1:AA:1231:G:N2	2.53	0.41
3:AB:9:A:C2	3:AB:46:G:N2	2.89	0.41
3:AC:5:G:O2'	3:AC:6:G:C5'	2.69	0.41
3:AC:63:G:H2'	3:AC:64:A:C8	2.56	0.41
4:AE:157:ARG:CA	4:AE:158:LEU:HD23	2.50	0.41
4:AE:28:PHE:CE1	4:AE:31:TYR:CB	3.04	0.41
4:AE:46:LYS:O	4:AE:49:GLU:N	2.54	0.41
4:AE:90:MET:SD	4:AE:91:PRO:CD	3.01	0.41
5:AF:23:TYR:CE1	12:AM:10:GLY:C	2.94	0.41
5:AF:35:GLU:CD	5:AF:95:THR:HG21	2.40	0.41
6:AG:196:LEU:O	6:AG:196:LEU:CD1	2.69	0.41
6:AG:60:GLU:OE2	6:AG:202:LEU:CD1	2.67	0.41
7:AH:106:PRO:HG2	7:AH:122:GLU:OE2	2.20	0.41
7:AH:71:LEU:HG	7:AH:72:GLN:N	2.35	0.41
7:AH:82:VAL:O	7:AH:82:VAL:HG13	2.21	0.41
8:AI:82:ARG:O	8:AI:83:ASP:C	2.59	0.41
9:AJ:146:GLU:HG3	9:AJ:149:ARG:CZ	2.50	0.41
9:AJ:80:VAL:HG12	9:AJ:81:GLY:N	2.36	0.41
10:AK:14:ARG:CD	10:AK:15:ASN:ND2	2.83	0.41
10:AK:35:ILE:O	10:AK:37:ARG:N	2.53	0.41
10:AK:6:ILE:CD1	10:AK:85:ARG:NE	2.83	0.41
10:AK:6:ILE:HD12	10:AK:85:ARG:CD	2.51	0.41
11:AL:26:VAL:CG1	11:AL:63:ILE:HD13	2.51	0.41
13:AN:12:ARG:NH1	13:AN:40:ILE:HG23	2.35	0.41
14:AO:88:GLY:C	14:AO:89:ARG:O	2.59	0.41
14:AO:6:THR:OG1	14:AO:9:GLN:HB2	2.21	0.41
17:AR:36:ILE:HG22	17:AR:37:ASN:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:10:VAL:HB	19:AT:54:GLY:H	1.85	0.41
20:AU:17:SER:CB	20:AU:54:ARG:HH12	2.32	0.41
22:AW:102:GLY:O	22:AW:104:LEU:N	2.54	0.41
49:B2:41:PRO:HG3	49:B2:44:ARG:NH1	2.36	0.41
49:B2:26:LEU:CG	49:B2:47:VAL:HG22	2.37	0.41
49:B2:52:HIS:CE1	49:B2:53:LEU:CG	3.01	0.41
50:B3:59:PHE:HE1	50:B3:60:GLN:HE21	1.68	0.41
50:B3:59:PHE:HB3	50:B3:62:ARG:NH1	2.36	0.41
51:B4:19:ARG:O	51:B4:20:ARG:C	2.58	0.41
51:B4:57:VAL:O	51:B4:58:LEU:HB3	2.20	0.41
24:BA:104:U:OP2	24:BA:105:C:C5	2.73	0.41
24:BA:1054:A:H8	24:BA:1054:A:O5'	2.03	0.41
24:BA:1058:G:C6	24:BA:1081:U:N3	2.89	0.41
24:BA:1102:C:C2'	24:BA:1102:C:O2	2.63	0.41
24:BA:1024:G:C6	24:BA:1138:G:O6	2.73	0.41
24:BA:1179:C:C2'	24:BA:1180:C:C6	3.00	0.41
24:BA:1183:G:O4'	24:BA:1183:G:N3	2.53	0.41
24:BA:10:G:N1	24:BA:11:G:C6	2.89	0.41
24:BA:121:G:O4'	24:BA:148:C:H2'	2.20	0.41
24:BA:126:A:H5''	53:B6:18:PHE:CE1	2.54	0.41
24:BA:1283:G:H22	24:BA:1286:A:C5'	2.33	0.41
24:BA:1300:U:O2	24:BA:1301:A:N6	2.54	0.41
24:BA:1342:A:O5'	24:BA:1342:A:H8	2.04	0.41
24:BA:1353:A:C6	24:BA:1378:A:C5	3.09	0.41
24:BA:1388:G:C6	24:BA:1400:G:N1	2.89	0.41
24:BA:1431:U:C4	24:BA:1432:C:C5	3.09	0.41
24:BA:1438:U:C2'	24:BA:1439:A:C5'	2.89	0.41
24:BA:1453:A:C2	24:BA:1454:U:C1'	3.04	0.41
24:BA:1423:G:H5'	24:BA:1493:C:H1'	2.02	0.41
24:BA:120:U:O2'	24:BA:149:A:O4'	2.37	0.41
24:BA:1500:G:O2'	24:BA:1501:C:C5'	2.69	0.41
24:BA:150:C:O2'	24:BA:151:C:C5'	2.67	0.41
24:BA:1529:A:C8	24:BA:1530:G:C4	3.08	0.41
24:BA:1291:C:C5'	24:BA:1535:U:O3'	2.69	0.41
24:BA:1565:C:C6	24:BA:1565:C:C3'	3.04	0.41
24:BA:1571:A:H2'	24:BA:1571:A:N3	2.35	0.41
24:BA:1689:A:C6	24:BA:1700:A:C4	3.08	0.41
24:BA:1689:A:C6	24:BA:1700:A:N3	2.89	0.41
24:BA:1789:A:H5'	24:BA:1790:C:OP2	2.21	0.41
24:BA:1889:A:C2	24:BA:1890:A:C4	3.09	0.41
24:BA:1964:G:C6	24:BA:1967:C:H5	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2015:A:OP2	24:BA:2015:A:O4'	2.38	0.41
24:BA:2225:A:O2'	24:BA:2226:C:OP2	2.29	0.41
24:BA:2075:U:O2	24:BA:2238:G:N2	2.53	0.41
24:BA:2256:G:C6	24:BA:2257:U:C4	3.08	0.41
24:BA:2255:G:C2	24:BA:2256:G:N9	2.89	0.41
24:BA:2279:G:N3	24:BA:2280:G:C8	2.88	0.41
24:BA:2335:A:C2'	24:BA:2337:G:C8	3.03	0.41
24:BA:2370:G:C4	24:BA:2371:G:C8	3.08	0.41
24:BA:2327:A:N7	24:BA:2388:A:C6	2.89	0.41
24:BA:2392:A:O2'	24:BA:2393:A:P	2.79	0.41
24:BA:2508:G:N2	24:BA:2509:G:H1'	2.35	0.41
24:BA:2705:A:C8	24:BA:2706:G:N7	2.89	0.41
24:BA:2705:A:N7	24:BA:2706:G:N7	2.68	0.41
24:BA:2710:C:C4	24:BA:2711:A:N7	2.88	0.41
24:BA:2790:A:O4'	24:BA:2893:G:C2	2.72	0.41
24:BA:2808:U:OP1	24:BA:2809:A:OP2	2.38	0.41
24:BA:2817:G:N2	24:BA:2830:G:C4	2.89	0.41
24:BA:2867:G:O3'	24:BA:2868:A:H8	2.03	0.41
24:BA:303:U:H2'	24:BA:304:G:C5'	2.50	0.41
24:BA:349:G:N3	24:BA:349:G:H2'	2.35	0.41
24:BA:468:G:C2'	24:BA:469:G:H5'	2.51	0.41
24:BA:479:A:OP2	24:BA:479:A:O4'	2.39	0.41
24:BA:535:C:H2'	24:BA:536:A:C5'	2.51	0.41
24:BA:545:G:H2'	24:BA:545:G:N3	2.36	0.41
24:BA:545:G:O5'	24:BA:545:G:C8	2.74	0.41
24:BA:572:A:N7	24:BA:573:G:N1	2.69	0.41
24:BA:578:A:H2'	24:BA:2018:G:C5'	2.29	0.41
24:BA:630:G:H2'	24:BA:631:A:O5'	2.21	0.41
24:BA:626:U:H4'	24:BA:653:A:C2	2.55	0.41
24:BA:696:G:H2'	24:BA:697:C:H6	1.86	0.41
24:BA:735:A:C3'	24:BA:735:A:C8	3.04	0.41
24:BA:736:C:N4	24:BA:737:C:N4	2.68	0.41
24:BA:763:G:H1'	24:BA:765:G:O4'	2.20	0.41
24:BA:793:A:OP2	24:BA:793:A:O4'	2.39	0.41
24:BA:844:C:OP2	24:BA:845:G:C5	2.74	0.41
24:BA:948:G:C6	24:BA:949:C:C4	3.09	0.41
24:BA:87:C:N4	24:BA:96:G:C6	2.89	0.41
25:BB:25:A:C2	25:BB:26:A:H1'	2.55	0.41
25:BB:40:U:O5'	25:BB:40:U:H6	2.04	0.41
25:BB:45:A:N3	25:BB:45:A:H2'	2.36	0.41
25:BB:68:C:C2'	25:BB:69:G:H8	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:117:VAL:HG13	27:BD:129:ASN:N	2.35	0.41
27:BD:175:LEU:CD2	27:BD:176:ARG:O	2.69	0.41
27:BD:91:ARG:HH22	27:BD:198:ASN:CG	2.24	0.41
27:BD:20:ASP:O	27:BD:21:PHE:CB	2.69	0.41
27:BD:244:ARG:CA	27:BD:252:TRP:NE1	2.84	0.41
27:BD:258:LYS:CA	27:BD:261:LYS:HD2	2.49	0.41
27:BD:54:ARG:HA	27:BD:220:HIS:N	2.36	0.41
24:BA:2636:U:C4'	28:BE:79:ARG:NH2	2.80	0.41
28:BE:91:VAL:CG2	28:BE:93:VAL:H	2.20	0.41
29:BF:11:VAL:CB	29:BF:17:ARG:HH12	2.33	0.41
29:BF:201:VAL:HA	29:BF:204:ASN:HD21	1.80	0.41
29:BF:201:VAL:CB	29:BF:205:ARG:HH21	2.32	0.41
29:BF:31:HIS:O	29:BF:38:ARG:NH2	2.54	0.41
30:BG:5:VAL:HG12	30:BG:6:ALA:N	2.35	0.41
30:BG:50:ALA:HA	30:BG:70:VAL:HG13	2.01	0.41
30:BG:38:VAL:HG12	30:BG:93:THR:HG23	2.01	0.41
31:BH:103:LEU:O	31:BH:113:VAL:HG12	2.19	0.41
31:BH:97:ARG:HH21	31:BH:97:ARG:CB	2.34	0.41
31:BH:98:LEU:O	31:BH:99:VAL:HB	2.20	0.41
32:BK:40:THR:HG22	32:BK:42:SER:H	1.86	0.41
33:BL:104:VAL:CG1	33:BL:127:ILE:HB	2.45	0.41
33:BL:78:ILE:HG21	33:BL:136:VAL:HG11	1.97	0.41
24:BA:2640:G:O3'	34:BM:75:TYR:CE1	2.74	0.41
35:BN:53:LYS:HG3	35:BN:54:GLU:N	2.34	0.41
24:BA:1664:A:O2'	35:BN:66:LYS:CE	2.69	0.41
35:BN:94:ARG:HG2	35:BN:96:THR:N	2.35	0.41
36:BO:119:GLU:C	36:BO:120:ALA:O	2.57	0.41
36:BO:77:ARG:CZ	36:BO:79:ARG:HB3	2.50	0.41
36:BO:79:ARG:HE	36:BO:83:VAL:HG12	1.86	0.41
36:BO:99:LEU:HD22	36:BO:101:VAL:CG2	2.46	0.41
37:BP:121:ALA:C	37:BP:125:LEU:HG	2.37	0.41
38:BQ:17:ARG:O	38:BQ:20:LEU:N	2.54	0.41
38:BQ:75:LEU:CD2	38:BQ:78:LYS:HB3	2.50	0.41
40:BS:15:VAL:HG11	40:BS:18:ASP:OD1	2.20	0.41
41:BT:46:ALA:N	41:BT:49:HIS:ND1	2.69	0.41
43:BV:28:SER:C	43:BV:31:GLU:OE1	2.59	0.41
45:BX:35:TYR:HD1	45:BX:64:GLU:O	2.03	0.41
46:BY:116:VAL:HG12	46:BY:176:PRO:CA	2.49	0.41
46:BY:116:VAL:HG22	46:BY:145:GLU:HG2	2.01	0.41
47:BZ:38:VAL:CG1	47:BZ:45:PHE:CE1	3.03	0.41
32:BK:54:GLN:OE1	32:BK:57:ARG:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:62:C:H5'	26:BC:52:ARG:HD3	2.00	0.41
26:BC:89:ALA:HB2	26:BC:154:ARG:NH1	2.36	0.41
24:BA:1487:G:C5	24:BA:1488:G:N7	2.88	0.41
1:AA:161:A:N1	1:AA:347:G:O2'	2.48	0.41
24:BA:1511:A:C8	24:BA:1512:G:H5''	2.56	0.41
3:AD:44:G:C3'	3:AD:45:U:H5'	2.50	0.41
2:A1:29:G:C6	2:A1:30:U:C5	3.09	0.41
1:AA:1026:G:O6	1:AA:1036:G:N2	2.53	0.41
1:AA:1115:C:O2'	1:AA:1116:C:C5'	2.69	0.41
1:AA:1206:G:C6	1:AA:1207:G:C5	3.09	0.41
1:AA:1270:C:C4	1:AA:1271:G:N7	2.89	0.41
1:AA:1278:U:H5'	1:AA:1279:A:H4'	2.02	0.41
1:AA:1276:G:HO2'	1:AA:1282:C:H4'	1.84	0.41
1:AA:1358:U:OP1	16:AQ:35:ARG:HG3	2.21	0.41
1:AA:68:G:C5'	1:AA:171:A:H1'	2.50	0.41
1:AA:284:G:O2'	1:AA:285:G:C5'	2.62	0.41
1:AA:118:U:H3'	1:AA:288:A:N6	2.35	0.41
1:AA:298:A:OP1	1:AA:298:A:H8	2.04	0.41
1:AA:354:G:N3	1:AA:355:C:C6	2.88	0.41
1:AA:386:C:N4	1:AA:387:U:C4	2.89	0.41
1:AA:401:C:OP2	6:AG:73:ARG:CZ	2.69	0.41
1:AA:410:G:N2	1:AA:429:U:C2	2.88	0.41
1:AA:455:C:O2'	1:AA:456:C:H5'	2.21	0.41
1:AA:520:A:C8	1:AA:520:A:H3'	2.56	0.41
1:AA:518:C:H5	1:AA:530:G:C8	2.39	0.41
1:AA:584:G:C6	1:AA:585:G:N7	2.88	0.41
1:AA:622:A:H2'	1:AA:623:C:O5'	2.21	0.41
1:AA:637:G:C2	1:AA:638:G:C8	3.08	0.41
1:AA:658:G:OP1	17:AR:31:LEU:HD23	2.21	0.41
1:AA:67:C:H5'	1:AA:172:A:HO2'	1.79	0.41
1:AA:741:G:H2'	1:AA:742:G:H8	1.85	0.41
1:AA:662:G:N1	1:AA:744:C:C4	2.89	0.41
1:AA:785:G:C2	1:AA:798:G:C4	3.09	0.41
1:AA:867:G:N3	1:AA:868:C:C6	2.89	0.41
1:AA:85:U:H2'	1:AA:86:U:H5'	2.02	0.41
1:AA:89:U:O2'	1:AA:90:C:H5'	2.21	0.41
1:AA:966:G:H2'	1:AA:967:C:O5'	2.21	0.41
1:AA:979:C:OP2	1:AA:980:C:N4	2.54	0.41
1:AA:961:U:O4'	1:AA:983:A:C2	2.73	0.41
4:AE:144:ARG:O	4:AE:145:LEU:C	2.60	0.41
4:AE:213:LEU:O	4:AE:216:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:221:LEU:HD13	4:AE:222:ILE:HA	2.02	0.41
4:AE:43:ASP:OD2	4:AE:45:GLN:HB2	2.21	0.41
4:AE:58:ILE:CG2	4:AE:221:LEU:CD1	2.99	0.41
5:AF:150:LYS:C	5:AF:150:LYS:HD3	2.40	0.41
1:AA:1191:A:C5'	5:AF:4:LYS:HZ2	2.33	0.41
5:AF:59:ARG:HD3	5:AF:61:ALA:O	2.20	0.41
1:AA:1081:G:OP1	7:AH:18:ARG:CB	2.68	0.41
7:AH:61:TYR:O	7:AH:62:ALA:C	2.59	0.41
8:AI:69:GLU:HB2	8:AI:70:ASP:H	1.43	0.41
10:AK:25:ASP:N	10:AK:25:ASP:OD1	2.53	0.41
10:AK:49:GLU:CD	10:AK:60:ARG:HB3	2.40	0.41
10:AK:68:ARG:NE	10:AK:74:PRO:HB3	2.36	0.41
11:AL:5:TYR:CZ	11:AL:18:PHE:CE2	3.08	0.41
11:AL:6:GLY:CA	11:AL:80:GLY:O	2.60	0.41
1:AA:1279:A:H5''	12:AM:7:LYS:HE2	2.02	0.41
13:AN:120:ARG:HE	13:AN:126:ARG:NH2	2.19	0.41
14:AO:109:GLY:O	14:AO:111:LYS:N	2.54	0.41
14:AO:46:LYS:HZ3	14:AO:94:PRO:HG2	1.84	0.41
14:AO:59:ARG:CA	14:AO:64:TYR:O	2.51	0.41
18:AS:40:ASP:HA	18:AS:41:PRO:HD3	1.76	0.41
18:AS:71:ARG:HB3	18:AS:71:ARG:HH11	1.85	0.41
1:AA:254:G:O2'	19:AT:18:THR:OG1	2.35	0.41
20:AU:45:SER:CB	20:AU:49:LYS:HZ1	2.34	0.41
20:AU:47:THR:N	20:AU:49:LYS:HE2	2.36	0.41
20:AU:56:THR:HB	20:AU:58:LEU:CD1	2.44	0.41
44:BW:4:ALA:C	48:B1:21:ARG:NH2	2.74	0.41
48:B1:23:LYS:HD3	48:B1:55:LEU:HD21	2.01	0.41
50:B3:40:HIS:CB	50:B3:41:PRO:HD3	2.51	0.41
50:B3:39:CYS:O	50:B3:40:HIS:CD2	2.74	0.41
50:B3:41:PRO:HA	50:B3:58:ARG:NH1	2.35	0.41
50:B3:42:PHE:O	50:B3:61:ARG:CZ	2.69	0.41
53:B6:13:ALA:O	53:B6:16:HIS:O	2.39	0.41
55:B8:1:MET:HG2	55:B8:2:LYS:N	2.35	0.41
55:B8:10:ILE:CG1	55:B8:32:HIS:HD2	2.34	0.41
24:BA:1124:C:O2'	55:B8:36:GLN:O	2.39	0.41
24:BA:1027:A:C2'	24:BA:1028:A:H8	2.33	0.41
24:BA:1136:G:N2	24:BA:1137:G:C1'	2.84	0.41
24:BA:988:A:O2'	24:BA:1157:G:H4'	2.21	0.41
24:BA:1271:G:OP2	24:BA:1272:A:OP1	2.38	0.41
24:BA:1277:G:O2'	38:BQ:24:GLN:CG	2.69	0.41
24:BA:1326:U:C4	24:BA:1327:C:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1358:G:C8	24:BA:1371:G:C6	3.09	0.41
24:BA:1517:G:N2	24:BA:1518:C:O2	2.53	0.41
24:BA:1429:G:H1'	24:BA:1568:G:N3	2.36	0.41
24:BA:1343:G:C8	24:BA:1597:A:N6	2.89	0.41
24:BA:1603:A:N1	24:BA:1604:C:N4	2.69	0.41
24:BA:1272:A:H5'	24:BA:1646:C:N3	2.35	0.41
24:BA:1693:U:O4	24:BA:1977:A:N7	2.53	0.41
24:BA:1699:G:C5	24:BA:1763:G:N3	2.89	0.41
24:BA:1819:A:H5''	27:BD:178:PRO:HB3	1.95	0.41
24:BA:1831:G:H2'	24:BA:1832:C:H6	1.86	0.41
24:BA:1906:G:C5	24:BA:1929:G:C5	3.09	0.41
24:BA:1932:A:N6	24:BA:1933:G:C6	2.88	0.41
24:BA:1945:G:O2'	24:BA:1946:U:H5'	2.20	0.41
24:BA:2018:G:C8	24:BA:2018:G:OP2	2.70	0.41
24:BA:2264:C:C2	24:BA:2277:G:N2	2.89	0.41
24:BA:2280:G:N3	24:BA:2281:C:C5	2.89	0.41
24:BA:2323:G:N3	24:BA:2324:C:C4	2.89	0.41
24:BA:2373:G:N3	24:BA:2374:C:C4	2.89	0.41
24:BA:2391:G:C2'	24:BA:2392:A:OP2	2.68	0.41
24:BA:2423:U:H5'	24:BA:2423:U:C6	2.56	0.41
24:BA:2246:G:C1'	24:BA:2426:A:C2	3.04	0.41
24:BA:825:C:C1'	24:BA:2428:G:N2	2.75	0.41
24:BA:2431:U:HO2'	24:BA:2432:A:H8	1.66	0.41
24:BA:792:G:C6	24:BA:2440:C:C6	3.09	0.41
24:BA:2500:U:O2'	24:BA:2501:C:OP1	2.34	0.41
24:BA:256:A:H2'	24:BA:257:A:C8	2.55	0.41
24:BA:2705:A:C2'	24:BA:2706:G:O5'	2.66	0.41
24:BA:270(D):C:H2'	24:BA:270(E):G:C8	2.56	0.41
24:BA:281:G:O2'	24:BA:282:A:C5'	2.68	0.41
24:BA:2823:A:C5'	24:BA:2824:C:OP2	2.69	0.41
24:BA:2828:C:N3	24:BA:2829:C:N4	2.69	0.41
24:BA:285:C:O2'	24:BA:286:C:O5'	2.39	0.41
24:BA:2810:A:H62	24:BA:2891:G:H21	1.68	0.41
24:BA:432:A:O5'	24:BA:432:A:H8	2.04	0.41
24:BA:447:A:OP1	41:BT:5:LYS:NZ	2.53	0.41
24:BA:470:A:H2'	24:BA:471:A:C4'	2.51	0.41
24:BA:479:A:C6	24:BA:481:G:C4	3.09	0.41
24:BA:481:G:O2'	24:BA:507:A:N6	2.54	0.41
24:BA:596:G:H3'	24:BA:597:U:H6	1.85	0.41
24:BA:607:U:N3	24:BA:608:A:N7	2.69	0.41
24:BA:710:G:H2'	24:BA:711:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:748:G:N7	24:BA:750:A:N7	2.69	0.41
24:BA:761:A:C5'	24:BA:762:U:OP1	2.69	0.41
24:BA:799:G:C5	24:BA:800:A:C6	3.09	0.41
24:BA:806:C:C6	24:BA:806:C:O5'	2.68	0.41
24:BA:974:G:C4	24:BA:1186:G:C5	3.08	0.41
24:BA:97:C:C4	24:BA:98:G:C8	3.08	0.41
24:BA:987:G:O6	24:BA:988:A:C6	2.74	0.41
25:BB:118:G:C4	25:BB:119:A:N7	2.89	0.41
25:BB:40:U:H2'	25:BB:41:U:OP1	2.21	0.41
25:BB:52:A:N3	25:BB:53:A:O4'	2.54	0.41
25:BB:88:C:C4	25:BB:89:G:N3	2.86	0.41
27:BD:124:PRO:O	27:BD:126:GLN:HG2	2.21	0.41
27:BD:123:ALA:HB1	27:BD:129:ASN:HB3	2.02	0.41
24:BA:763:G:C5'	27:BD:211:ARG:CZ	2.98	0.41
27:BD:262:ARG:O	27:BD:263:ARG:C	2.58	0.41
28:BE:105:THR:HG1	28:BE:166:THR:HA	1.85	0.41
28:BE:178:GLU:O	28:BE:179:GLU:C	2.59	0.41
28:BE:30:PRO:HG2	28:BE:90:THR:HG22	2.03	0.41
28:BE:38:THR:O	28:BE:42:ASP:N	2.53	0.41
28:BE:40:GLU:OE2	28:BE:40:GLU:HA	2.20	0.41
28:BE:43:GLY:O	28:BE:45:THR:CG2	2.62	0.41
29:BF:104:LYS:C	29:BF:108:LYS:HZ1	2.24	0.41
29:BF:157:VAL:O	29:BF:194:MET:CB	2.60	0.41
29:BF:4:VAL:HG12	29:BF:4:VAL:O	2.20	0.41
29:BF:8:GLN:O	29:BF:9:ILE:HD12	2.19	0.41
24:BA:2305:A:HO2'	30:BG:136:ARG:HA	1.84	0.41
31:BH:142:GLY:O	31:BH:145:ALA:HB3	2.20	0.41
31:BH:149:ARG:CG	31:BH:153:LYS:CD	2.97	0.41
31:BH:24:VAL:HG13	31:BH:37:VAL:HG12	2.03	0.41
31:BH:6:ARG:C	31:BH:69:ARG:NE	2.70	0.41
32:BK:2:LYS:CD	32:BK:44:LEU:HD21	2.51	0.41
32:BK:30:LEU:O	32:BK:33:ARG:HG3	2.20	0.41
32:BK:7:GLU:HA	32:BK:14:ASP:OD1	2.19	0.41
34:BM:13:TRP:O	34:BM:136:GLU:OE2	2.39	0.41
34:BM:26:LEU:O	34:BM:30:ILE:CD1	2.69	0.41
34:BM:89:LYS:CA	34:BM:92:ALA:HB3	2.48	0.41
24:BA:2563:U:C4'	35:BN:28:SER:HG	2.31	0.41
35:BN:43:VAL:CG2	35:BN:45:GLU:O	2.69	0.41
35:BN:88:ASN:HB2	35:BN:89:ASN:OD1	2.20	0.41
37:BP:22:LYS:CE	37:BP:23:GLY:N	2.84	0.41
37:BP:68:ILE:HG21	37:BP:95:ALA:HB1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:102:GLU:CD	38:BQ:103:ARG:N	2.62	0.41
38:BQ:22:ARG:HD3	38:BQ:69:ASP:O	2.21	0.41
39:BR:40:ILE:CG2	39:BR:41:ASP:H	2.33	0.41
39:BR:98:VAL:O	39:BR:99:LYS:C	2.58	0.41
40:BS:101:PHE:HA	40:BS:101:PHE:HD2	1.78	0.41
40:BS:19:LEU:O	40:BS:20:PRO:O	2.38	0.41
41:BT:80:ILE:C	41:BT:82:GLY:N	2.72	0.41
42:BU:25:LEU:HG	42:BU:28:GLU:OE1	2.20	0.41
43:BV:45:TYR:O	43:BV:46:PHE:C	2.55	0.41
43:BV:75:TYR:O	43:BV:104:THR:C	2.58	0.41
43:BV:78:GLU:OE2	43:BV:101:SER:OG	2.29	0.41
44:BW:31:HIS:O	44:BW:32:PRO:C	2.59	0.41
44:BW:47:PHE:O	44:BW:48:LYS:C	2.59	0.41
46:BY:103:ARG:CA	46:BY:103:ARG:HE	2.26	0.41
46:BY:111:VAL:C	46:BY:113:ALA:H	2.22	0.41
46:BY:44:PHE:HB3	46:BY:48:PHE:HE1	1.86	0.41
47:BZ:21:LEU:H	47:BZ:24:LYS:HZ2	1.69	0.41
1:AA:1210:C:C4'	1:AA:1214:C:H42	2.33	0.41
1:AA:1274:G:H2'	1:AA:1274:G:N3	2.36	0.41
1:AA:1311:G:N7	21:AV:2:PRO:CA	2.84	0.41
1:AA:1403:C:O2	1:AA:1499:A:N6	2.54	0.41
1:AA:1442:G:N2	1:AA:1442:G:P	2.94	0.41
1:AA:196:A:H8	1:AA:196:A:H3'	1.86	0.41
1:AA:329:A:C6	1:AA:332:G:C2	3.09	0.41
1:AA:369:C:C2	1:AA:370:C:C5	3.09	0.41
1:AA:375:U:C2'	1:AA:376:G:C5'	2.99	0.41
1:AA:391:G:O6	1:AA:392:G:C6	2.74	0.41
1:AA:439:A:C4	1:AA:496:A:C5	3.09	0.41
1:AA:468:A:N6	1:AA:474:G:N1	2.68	0.41
1:AA:468:A:N7	1:AA:474:G:N7	2.69	0.41
1:AA:475:G:C4	1:AA:476:G:N7	2.89	0.41
1:AA:498:A:C4	1:AA:547:A:C2	3.09	0.41
1:AA:537:G:O2'	1:AA:538:G:H5'	2.20	0.41
1:AA:687:A:O2'	1:AA:688:G:OP2	2.38	0.41
1:AA:690:G:C2	1:AA:691:G:O4'	2.74	0.41
1:AA:735:C:O5'	1:AA:735:C:C6	2.72	0.41
1:AA:80:G:C2'	1:AA:81:G:H8	2.34	0.41
1:AA:837:G:C2	1:AA:838:G:C5	3.08	0.41
1:AA:896:C:H2'	1:AA:897:C:C6	2.56	0.41
1:AA:908:A:H2'	1:AA:909:A:C8	2.53	0.41
1:AA:930:C:C4	1:AA:931:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:938:A:C2	1:AA:939:G:N9	2.89	0.41
1:AA:96:G:H2'	1:AA:97:U:C5	2.51	0.41
3:AB:12:U:C6	3:AB:12:U:C3'	3.04	0.41
3:AC:67:C:N4	3:AC:68:C:H41	2.19	0.41
4:AE:122:PHE:O	4:AE:123:ALA:C	2.59	0.41
4:AE:52:GLU:CD	4:AE:53:ARG:N	2.74	0.41
5:AF:183:ASP:OD2	5:AF:184:TYR:N	2.54	0.41
6:AG:100:ARG:NH1	6:AG:137:SER:HA	2.35	0.41
6:AG:36:ARG:HG2	6:AG:38:TYR:OH	2.21	0.41
7:AH:109:ILE:CD1	7:AH:139:LEU:HD11	2.50	0.41
7:AH:141:GLN:O	7:AH:142:LEU:CG	2.67	0.41
7:AH:9:LYS:HD3	7:AH:108:ALA:CB	2.51	0.41
8:AI:2:ARG:C	8:AI:67:MET:SD	3.00	0.41
9:AJ:147:ALA:C	9:AJ:149:ARG:N	2.74	0.41
9:AJ:71:PRO:HB2	9:AJ:72:ARG:H	1.77	0.41
10:AK:81:HIS:CD2	10:AK:138:TRP:O	2.74	0.41
10:AK:10:LEU:HA	10:AK:83:ILE:HD11	2.03	0.41
1:AA:1348:U:P	11:AL:109:VAL:HA	2.60	0.41
1:AA:1367:C:OP2	11:AL:115:GLY:HA2	2.21	0.41
11:AL:116:LYS:HB3	11:AL:122:ALA:N	2.34	0.41
13:AN:41:THR:HB	13:AN:71:LYS:CD	2.50	0.41
14:AO:103:GLY:HA2	14:AO:107:ALA:O	2.21	0.41
14:AO:110:VAL:CB	14:AO:113:ARG:HG3	2.51	0.41
14:AO:85:ILE:CD1	14:AO:99:HIS:O	2.69	0.41
1:AA:1229:A:P	15:AP:116:THR:HG22	2.60	0.41
15:AP:3:ARG:CZ	30:BG:113:ARG:NE	2.84	0.41
15:AP:48:LEU:HD23	15:AP:52:GLU:HB2	1.93	0.41
15:AP:90:LEU:CD2	15:AP:93:ARG:HD3	2.50	0.41
18:AS:32:TYR:O	18:AS:34:GLU:N	2.54	0.41
18:AS:4:ILE:O	18:AS:66:PRO:HA	2.21	0.41
18:AS:75:ARG:HA	18:AS:80:PHE:HB3	2.03	0.41
18:AS:75:ARG:HG3	18:AS:80:PHE:CG	2.55	0.41
1:AA:1310:G:N7	21:AV:2:PRO:HD3	2.36	0.41
21:AV:51:VAL:HB	21:AV:75:ALA:CB	2.50	0.41
1:AA:1331:G:O6	23:AX:7:ARG:NH2	2.54	0.41
24:BA:851:U:C1'	49:B2:46:ASN:HB2	2.50	0.41
51:B4:35:GLU:OE1	51:B4:51:TYR:CD2	2.74	0.41
52:B5:16:CYS:SG	52:B5:20:ASN:HB2	2.61	0.41
52:B5:44:ARG:HB3	52:B5:45:LYS:H	1.74	0.41
24:BA:210:C:OP1	53:B6:29:LYS:HD3	2.21	0.41
24:BA:458:G:C2'	53:B6:40:TRP:NE1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:B7:40:GLU:O	54:B7:42:ARG:N	2.54	0.41
54:B7:26:LYS:O	54:B7:47:LYS:HD2	2.21	0.41
24:BA:1027:A:HO2'	24:BA:1028:A:H8	1.69	0.41
24:BA:1036:G:C2	24:BA:1037:G:C8	3.09	0.41
24:BA:111:A:H4'	48:B1:60:ASN:CG	2.41	0.41
24:BA:112:U:N3	24:BA:113:G:H1'	2.35	0.41
24:BA:1247:A:H2'	24:BA:1248:G:H5''	2.03	0.41
24:BA:1334:G:OP1	44:BW:65:ARG:NH1	2.52	0.41
24:BA:1364:G:C8	24:BA:1364:G:OP2	2.74	0.41
24:BA:1338:G:N3	24:BA:1393:A:H2	2.19	0.41
24:BA:1395:A:C6	24:BA:1398:C:C2	3.09	0.41
24:BA:1341:U:C4	24:BA:1398:C:H5'	2.54	0.41
24:BA:14:A:N7	24:BA:15:G:C1'	2.84	0.41
24:BA:1524:G:N3	24:BA:1525:G:C8	2.89	0.41
24:BA:1601:G:H2'	24:BA:1601:G:N3	2.34	0.41
24:BA:1647:G:C5'	24:BA:1648:C:OP1	2.69	0.41
24:BA:1661:G:C5	24:BA:2000:G:C2	3.09	0.41
24:BA:1696:G:H2'	24:BA:1697:G:C1'	2.51	0.41
24:BA:173:G:N2	24:BA:174:C:C2	2.89	0.41
24:BA:1742:C:O4'	24:BA:1742:C:P	2.79	0.41
24:BA:176:G:C2'	24:BA:177:G:C8	2.90	0.41
24:BA:1825:A:C6	24:BA:1826:G:C6	3.08	0.41
24:BA:1908:C:H2'	24:BA:1909:C:C6	2.55	0.41
24:BA:1931:U:H6	24:BA:1931:U:H2'	1.65	0.41
24:BA:1982:C:H5''	24:BA:1983:C:OP2	2.21	0.41
24:BA:2007:C:O2'	24:BA:2008:C:H5'	2.20	0.41
24:BA:2045:C:O2'	24:BA:2046:G:C5'	2.69	0.41
24:BA:2087:G:H8	24:BA:2087:G:C5'	2.34	0.41
24:BA:2093:G:O3'	32:BK:25:TYR:HB3	2.21	0.41
24:BA:213:A:C2	24:BA:214:G:O4'	2.74	0.41
24:BA:2207:C:C3'	24:BA:2208:U:C5'	2.98	0.41
24:BA:2252:G:N7	24:BA:2253:G:N7	2.69	0.41
24:BA:2284:C:H2'	24:BA:2285:C:C6	2.56	0.41
24:BA:2356:C:H5''	24:BA:2356:C:C6	2.55	0.41
24:BA:413:C:N4	24:BA:2410:G:H1	2.19	0.41
24:BA:2462:U:N3	24:BA:2463:C:C4	2.89	0.41
24:BA:2530:A:H3'	24:BA:2531:A:C5'	2.50	0.41
24:BA:2545:G:HO2'	24:BA:2565:A:H61	1.69	0.41
24:BA:242:G:C2'	24:BA:254:G:O6	2.64	0.41
24:BA:2569:G:N3	24:BA:2570:G:H8	2.16	0.41
24:BA:2653:U:N3	24:BA:2668:G:N1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2690:C:O2'	24:BA:2691:C:P	2.76	0.41
24:BA:270(B):A:O2'	24:BA:270(C):C:H3'	2.21	0.41
24:BA:270(M):U:C2'	24:BA:270(M):U:O2	2.68	0.41
24:BA:270(R):G:N2	24:BA:270(S):G:C4	2.89	0.41
24:BA:2688:U:N3	24:BA:2719:G:C2	2.89	0.41
24:BA:2771:C:O2	24:BA:2771:C:H2'	2.21	0.41
24:BA:2786:U:C2	24:BA:2787:C:C5	3.08	0.41
24:BA:280:C:H3'	24:BA:282:A:OP2	2.20	0.41
24:BA:2881:C:H4'	38:BQ:117:VAL:HG21	2.03	0.41
24:BA:300:A:H8	24:BA:300:A:H3'	1.84	0.41
24:BA:312:G:N3	24:BA:313:C:C5	2.89	0.41
24:BA:301:G:C5	24:BA:317:G:N1	2.89	0.41
24:BA:358:U:OP2	24:BA:359:A:N7	2.54	0.41
24:BA:370:G:C2	24:BA:424:G:C8	3.08	0.41
24:BA:373:U:C2'	24:BA:374:A:OP2	2.68	0.41
24:BA:385:C:O2	24:BA:385:C:H2'	2.21	0.41
24:BA:424:G:C2'	24:BA:425:G:C5'	2.99	0.41
24:BA:445:C:O2'	24:BA:449:A:C8	2.74	0.41
24:BA:465:G:N2	24:BA:683:C:C2'	2.83	0.41
24:BA:471:A:C8	24:BA:472:A:N7	2.89	0.41
24:BA:496:G:C6	24:BA:497:A:C6	3.09	0.41
24:BA:529:A:O3'	24:BA:530:G:H8	2.03	0.41
24:BA:559:G:HO2'	24:BA:560:C:C5'	2.28	0.41
24:BA:562:U:C2'	24:BA:563:G:OP2	2.69	0.41
24:BA:629:G:C6	24:BA:630:G:C6	3.09	0.41
24:BA:656:G:O2'	24:BA:657:U:O5'	2.38	0.41
24:BA:679:C:O2	24:BA:679:C:C2'	2.67	0.41
24:BA:784:A:C6	24:BA:792:G:N3	2.84	0.41
24:BA:876:C:H2'	24:BA:877:U:C6	2.56	0.41
25:BB:95:U:C2	25:BB:96:G:N7	2.89	0.41
24:BA:1861:G:OP1	26:BC:206:GLY:HA2	2.21	0.41
27:BD:105:ILE:CD1	27:BD:106:ILE:HG23	2.51	0.41
24:BA:1813:G:HO2'	27:BD:52:ARG:NH2	2.15	0.41
27:BD:5:LYS:HB2	27:BD:82:ILE:CG1	2.51	0.41
28:BE:119:ARG:HH11	28:BE:120:TRP:CA	2.30	0.41
28:BE:119:ARG:NH2	28:BE:155:LYS:CB	2.84	0.41
28:BE:164:ARG:CG	28:BE:165:VAL:N	2.84	0.41
28:BE:171:GLU:CD	28:BE:173:VAL:H	2.24	0.41
28:BE:8:LYS:HZ1	40:BS:3:ARG:NE	2.19	0.41
29:BF:27:GLU:CG	29:BF:116:ASP:HB2	2.51	0.41
29:BF:90:PHE:O	29:BF:91:GLY:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:43:LEU:HD12	30:BG:43:LEU:HA	1.59	0.41
31:BH:11:VAL:N	31:BH:50:VAL:CG2	2.83	0.41
31:BH:85:LYS:CB	31:BH:85:LYS:NZ	2.82	0.41
24:BA:1096:A:N6	33:BL:30:HIS:HD2	2.19	0.41
33:BL:24:GLY:CA	33:BL:34:ILE:HG23	2.51	0.41
34:BM:55:VAL:N	34:BM:130:HIS:HE1	2.18	0.41
35:BN:37:ASP:C	35:BN:61:VAL:HG23	2.41	0.41
36:BO:112:LEU:HB2	36:BO:128:HIS:CE1	2.56	0.41
36:BO:34:GLY:O	36:BO:36:LYS:N	2.54	0.41
36:BO:70:GLN:C	36:BO:71:VAL:HG23	2.40	0.41
36:BO:86:LYS:HB3	36:BO:87:ASP:H	1.59	0.41
37:BP:102:VAL:CG1	37:BP:104:PHE:CZ	3.04	0.41
37:BP:39:PRO:CB	37:BP:127:ILE:HG12	2.51	0.41
24:BA:2485:G:H5"	37:BP:46:GLN:OE1	2.21	0.41
37:BP:6:ARG:HH21	37:BP:8:LYS:N	2.17	0.41
37:BP:6:ARG:O	37:BP:7:MET:CE	2.69	0.41
37:BP:97:VAL:N	37:BP:98:LYS:HE2	2.36	0.41
37:BP:98:LYS:N	37:BP:98:LYS:HE2	2.34	0.41
38:BQ:67:LEU:C	38:BQ:69:ASP:N	2.71	0.41
39:BR:101:LEU:C	39:BR:101:LEU:HD13	2.41	0.41
39:BR:74:ALA:CB	39:BR:108:GLY:H	2.28	0.41
39:BR:94:TYR:C	39:BR:99:LYS:CB	2.88	0.41
40:BS:113:LYS:O	40:BS:116:ALA:CB	2.65	0.41
40:BS:73:GLU:O	40:BS:73:GLU:HG3	2.21	0.41
41:BT:104:GLN:O	41:BT:105:VAL:C	2.59	0.41
41:BT:112:ARG:O	41:BT:113:ALA:C	2.60	0.41
42:BU:20:LEU:HG	42:BU:20:LEU:O	2.21	0.41
43:BV:98:LYS:C	43:BV:98:LYS:HE2	2.42	0.41
44:BW:25:LYS:HG2	44:BW:82:GLN:HE21	1.86	0.41
44:BW:47:PHE:O	44:BW:49:VAL:HG13	2.19	0.41
44:BW:68:ARG:CB	44:BW:68:ARG:NH1	2.84	0.41
45:BX:36:ALA:HB1	45:BX:62:GLU:O	2.20	0.41
46:BY:155:LEU:O	46:BY:156:LYS:CB	2.68	0.41
46:BY:127:LYS:CD	46:BY:165:VAL:HG23	2.42	0.41
46:BY:31:ARG:NH1	46:BY:31:ARG:CG	2.84	0.41
46:BY:40:ASP:N	46:BY:44:PHE:CE1	2.89	0.41
46:BY:48:PHE:O	46:BY:51:ALA:N	2.39	0.41
32:BK:92:VAL:CG1	32:BK:120:ILE:HG23	2.51	0.41
24:BA:2117:A:N6	24:BA:2171:A:C2	2.86	0.41
26:BC:104:LEU:HD13	26:BC:130:ILE:CG1	2.51	0.41
26:BC:104:LEU:HD11	26:BC:130:ILE:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:190:ARG:HH11	26:BC:190:ARG:CG	2.34	0.41
3:AD:15:G:O6	3:AD:48:C:C4	2.74	0.41
26:BC:138:PRO:HB3	26:BC:145:VAL:HG22	2.02	0.41
26:BC:213:TYR:HA	26:BC:224:ILE:HG12	2.02	0.41
6:AG:47:ARG:CB	6:AG:47:ARG:HH11	2.32	0.41
48:B1:7:GLU:O	48:B1:10:LYS:CB	2.69	0.41
48:B1:1:MET:C	48:B1:3:LYS:N	2.74	0.41
1:AA:1165:C:N4	1:AA:1166:G:C5	2.89	0.41
1:AA:1169:A:C5	1:AA:1170:A:N1	2.89	0.41
39:BR:54:LEU:O	39:BR:56:LEU:HD22	2.21	0.41
24:BA:2190:G:C6	24:BA:2191:G:N7	2.89	0.41
24:BA:363(C):G:H2'	24:BA:363(D):G:O5'	2.21	0.41
10:AK:54:ASP:C	10:AK:56:LYS:N	2.74	0.41
34:BM:140:VAL:CG1	34:BM:140:VAL:OXT	2.69	0.41
46:BY:8:TYR:HD1	46:BY:8:TYR:N	2.15	0.41
1:AA:73:G:N2	1:AA:74:C:C2	2.88	0.41
1:AA:418:C:O2'	1:AA:419:C:H5'	2.20	0.41
44:BW:13:LEU:HD23	44:BW:13:LEU:N	2.36	0.41
2:A1:39:U:H4'	2:A1:40:U:H5'	2.01	0.41
1:AA:1043:C:C4	1:AA:1044:A:N7	2.89	0.41
1:AA:1080:A:H8	1:AA:1080:A:O5'	2.04	0.41
1:AA:1092:A:C8	1:AA:1183:A:N7	2.89	0.41
1:AA:1107:C:H2'	1:AA:1107:C:O2	2.21	0.41
1:AA:1148:U:H5'	11:AL:16:ARG:HD2	2.01	0.41
1:AA:11:G:O2'	1:AA:12:U:H5'	2.21	0.41
1:AA:1363:A:H1'	1:AA:1365:G:N7	2.35	0.41
1:AA:1440:C:O2	1:AA:1441:G:O4'	2.39	0.41
1:AA:1475:G:H2'	1:AA:1476:G:O5'	2.21	0.41
1:AA:170:U:O2	1:AA:170:U:H2'	2.20	0.41
1:AA:397:A:C2'	1:AA:398:C:OP2	2.69	0.41
1:AA:592:G:C6	1:AA:648:A:C6	3.09	0.41
1:AA:626:U:H2'	1:AA:627:G:H8	1.86	0.41
1:AA:673:G:C6	1:AA:734:G:C6	3.09	0.41
1:AA:766:A:C2'	1:AA:767:A:H8	2.34	0.41
1:AA:924:C:C2	1:AA:925:G:C8	3.08	0.41
3:AB:18:G:O2'	3:AB:57:G:N2	2.53	0.41
3:AB:74:C:C4	24:BA:2555:U:N1	2.89	0.41
3:AC:74:C:N4	47:BZ:4:LYS:HZ1	2.17	0.41
4:AE:118:LEU:HD22	4:AE:142:LEU:HD13	2.02	0.41
4:AE:130:ARG:CA	4:AE:130:ARG:NE	2.78	0.41
4:AE:221:LEU:HD13	4:AE:221:LEU:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:138:VAL:CG1	5:AF:149:ALA:HB3	2.51	0.41
5:AF:18:TRP:CE2	16:AQ:55:GLY:O	2.74	0.41
5:AF:73:PRO:HD3	5:AF:105:GLU:CD	2.41	0.41
6:AG:108:LEU:HD22	6:AG:108:LEU:HA	1.78	0.41
1:AA:543:C:OP2	6:AG:10:ARG:NH2	2.53	0.41
6:AG:122:ARG:HG3	6:AG:136:PRO:HG2	2.03	0.41
7:AH:75:THR:CA	7:AH:118:ILE:HD11	2.50	0.41
8:AI:2:ARG:CD	8:AI:69:GLU:HG2	2.51	0.41
8:AI:11:ASN:HB3	8:AI:84:ASN:HB3	2.03	0.41
9:AJ:69:VAL:C	9:AJ:100:ALA:HB1	2.41	0.41
9:AJ:150:ALA:HA	13:AN:59:TYR:HB2	2.03	0.41
9:AJ:26:PHE:O	9:AJ:29:LYS:HB2	2.21	0.41
9:AJ:86:GLN:O	9:AJ:148:ASN:CB	2.65	0.41
10:AK:104:ARG:O	10:AK:107:LEU:HD23	2.21	0.41
10:AK:20:TYR:HD1	10:AK:65:TYR:CZ	2.38	0.41
10:AK:32:LYS:O	10:AK:35:ILE:N	2.55	0.41
10:AK:92:ARG:CG	10:AK:92:ARG:HH11	2.20	0.41
11:AL:47:LEU:HD11	11:AL:56:LEU:CD1	2.51	0.41
12:AM:33:GLN:O	12:AM:34:VAL:HG23	2.20	0.41
14:AO:84:LEU:CA	14:AO:104:VAL:HG11	2.50	0.41
14:AO:5:PRO:HG3	14:AO:15:ARG:NH2	2.35	0.41
14:AO:31:PRO:HB2	14:AO:32:PHE:H	1.71	0.41
14:AO:86:ARG:NH2	14:AO:119:LYS:HD3	2.35	0.41
15:AP:19:LEU:HD13	15:AP:25:ILE:CG2	2.51	0.41
16:AQ:16:PHE:HB3	16:AQ:18:VAL:HG22	2.03	0.41
17:AR:13:GLN:HB3	17:AR:13:GLN:HE21	1.66	0.41
17:AR:33:THR:HB	17:AR:34:LEU:H	1.79	0.41
18:AS:31:LYS:NZ	18:AS:31:LYS:CB	2.78	0.41
18:AS:58:TYR:HD1	18:AS:59:TRP:CA	2.33	0.41
48:B1:35:SER:CA	48:B1:38:GLN:OE1	2.66	0.41
48:B1:57:THR:O	48:B1:60:ASN:HB3	2.20	0.41
49:B2:37:LEU:O	49:B2:37:LEU:CG	2.64	0.41
49:B2:42:ALA:O	49:B2:43:ILE:C	2.59	0.41
49:B2:45:GLY:HA2	49:B2:48:GLU:CG	2.46	0.41
49:B2:47:VAL:O	49:B2:50:VAL:HB	2.21	0.41
24:BA:2046:G:C1'	51:B4:22:HIS:HD1	2.33	0.41
24:BA:2612:C:O2	51:B4:4:HIS:HB2	2.20	0.41
53:B6:8:ASN:CG	53:B6:10:ARG:HB2	2.41	0.41
54:B7:38:GLY:C	54:B7:41:ILE:HG12	2.41	0.41
54:B7:38:GLY:CA	54:B7:41:ILE:HG12	2.51	0.41
54:B7:53:PRO:C	54:B7:56:GLU:OE2	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:B8:19:ARG:HD2	55:B8:24:TYR:CD2	2.55	0.41
24:BA:1012:U:N3	24:BA:1142(A):A:O2'	2.54	0.41
24:BA:1080:C:O2'	24:BA:1081:U:H5'	2.21	0.41
24:BA:1207:C:H6	24:BA:1207:C:H5''	1.86	0.41
24:BA:1238:G:N1	24:BA:1239:G:C4	2.89	0.41
24:BA:1239:G:C2'	24:BA:1240:U:H5'	2.51	0.41
24:BA:1266:G:H2'	24:BA:1267:U:OP2	2.20	0.41
24:BA:1298:C:N4	24:BA:1299:G:C6	2.89	0.41
24:BA:1304:C:H2'	24:BA:1305:C:O5'	2.20	0.41
24:BA:1376:C:O2	24:BA:1377:G:C1'	2.69	0.41
24:BA:1387:C:C2'	24:BA:1388:G:H8	2.25	0.41
24:BA:142:G:H2'	24:BA:143:C:H6	1.82	0.41
24:BA:146:G:H2'	24:BA:147:U:H5''	2.03	0.41
24:BA:1667:G:O5'	35:BN:7:TYR:CZ	2.74	0.41
24:BA:1672:C:C5	24:BA:1673:U:C5	3.09	0.41
24:BA:1687:G:C2'	24:BA:1701:A:H61	2.34	0.41
24:BA:180:G:N3	24:BA:180:G:H2'	2.36	0.41
24:BA:1917:U:C5	24:BA:1918:A:N9	2.89	0.41
24:BA:1957:C:H2'	24:BA:1958:C:C6	2.55	0.41
24:BA:1993:U:C4	24:BA:1994:C:N4	2.67	0.41
24:BA:2018:G:O6	24:BA:2035:G:C6	2.74	0.41
24:BA:214:G:C2'	24:BA:215:G:O4'	2.69	0.41
24:BA:2205:C:OP1	50:B3:44:THR:HG23	2.21	0.41
24:BA:2244:U:O2	24:BA:2244:U:C2'	2.65	0.41
24:BA:2318:G:C2'	24:BA:2319:G:OP2	2.68	0.41
24:BA:2344:U:O2'	24:BA:2345:G:O5'	2.30	0.41
24:BA:2423:U:H1'	24:BA:2425:A:N3	2.35	0.41
24:BA:2515:C:O2'	24:BA:2516:G:C5'	2.64	0.41
24:BA:2637:U:O2'	24:BA:2638:G:C1'	2.69	0.41
24:BA:2730:C:H2'	24:BA:2731:G:C8	2.56	0.41
24:BA:2766:G:N3	24:BA:2767:C:C5	2.89	0.41
24:BA:278:A:O4'	24:BA:278:A:OP1	2.38	0.41
24:BA:2809:A:O2'	24:BA:2811:G:OP2	2.25	0.41
24:BA:319:C:C4	24:BA:320:A:C5	3.09	0.41
24:BA:325:G:C8	24:BA:325:G:C3'	3.04	0.41
24:BA:475:U:C6	24:BA:509:C:C4	3.09	0.41
24:BA:566:U:H3'	24:BA:567:A:C8	2.55	0.41
24:BA:583:G:O2'	24:BA:584:C:C5'	2.66	0.41
24:BA:682:G:C4	24:BA:683:C:C5	3.08	0.41
24:BA:704:G:N3	24:BA:704:G:H2'	2.36	0.41
24:BA:720:C:C2	24:BA:721:C:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:733:G:N7	24:BA:761:A:C5	2.89	0.41
24:BA:814:C:H4'	24:BA:1224:G:C2	2.56	0.41
24:BA:892:G:H2'	24:BA:893:C:H6	1.85	0.41
25:BB:10:C:O5'	25:BB:10:C:H6	2.04	0.41
25:BB:84:C:H2'	25:BB:85:G:C5'	2.45	0.41
25:BB:85:G:H2'	25:BB:86:G:H8	1.85	0.41
27:BD:106:ILE:HB	27:BD:107:ALA:H	1.62	0.41
27:BD:117:VAL:HG12	27:BD:118:VAL:N	2.34	0.41
27:BD:145:VAL:HG22	27:BD:191:ALA:HB1	2.02	0.41
27:BD:263:ARG:HB2	27:BD:264:LYS:H	1.73	0.41
27:BD:39:LYS:CD	27:BD:39:LYS:N	2.81	0.41
27:BD:37:LEU:CD1	27:BD:64:ILE:N	2.79	0.41
28:BE:133:LYS:CG	28:BE:137:HIS:CD2	3.04	0.41
28:BE:154:LYS:CD	28:BE:155:LYS:O	2.68	0.41
28:BE:38:THR:CG2	28:BE:39:PRO:HD3	2.50	0.41
28:BE:40:GLU:C	28:BE:41:LYS:CE	2.87	0.41
29:BF:118:ALA:C	29:BF:122:LYS:HB2	2.41	0.41
29:BF:122:LYS:HE3	29:BF:192:LEU:CG	2.51	0.41
29:BF:28:ILE:HA	29:BF:28:ILE:HD12	1.99	0.41
29:BF:80:ALA:O	29:BF:83:PHE:CD2	2.74	0.41
30:BG:125:PHE:HD1	30:BG:131:TYR:C	2.23	0.41
30:BG:35:GLU:O	30:BG:160:VAL:O	2.39	0.41
30:BG:34:LEU:H	30:BG:34:LEU:HD12	1.85	0.41
30:BG:57:ALA:CA	30:BG:67:LYS:C	2.85	0.41
30:BG:68:PRO:CB	30:BG:72:ARG:NH1	2.79	0.41
24:BA:1036:G:P	31:BH:59:ARG:HH21	2.43	0.41
31:BH:83:TYR:HE1	31:BH:138:LYS:HD3	1.86	0.41
24:BA:1059:G:H21	33:BL:130:SER:HB3	1.81	0.41
34:BM:18:ALA:N	34:BM:21:LYS:HD2	2.35	0.41
34:BM:74:ARG:O	34:BM:76:SER:N	2.52	0.41
35:BN:2:ILE:HG12	35:BN:32:TYR:HD1	1.86	0.41
36:BO:36:LYS:CD	36:BO:42:SER:OG	2.69	0.41
36:BO:6:LEU:O	36:BO:6:LEU:CD2	2.64	0.41
37:BP:43:THR:HG1	37:BP:45:GLN:N	2.18	0.41
24:BA:1453:A:C5	38:BQ:77:ARG:HD3	2.56	0.41
38:BQ:58:GLY:N	38:BQ:80:PHE:CZ	2.89	0.41
39:BR:99:LYS:O	39:BR:103:GLU:CD	2.59	0.41
40:BS:114:LEU:O	40:BS:115:ARG:C	2.59	0.41
40:BS:65:LYS:CA	40:BS:76:PHE:O	2.63	0.41
40:BS:85:LYS:HB3	40:BS:85:LYS:NZ	2.31	0.41
41:BT:105:VAL:O	41:BT:109:LEU:CD1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BV:98:LYS:C	43:BV:98:LYS:CE	2.89	0.41
44:BW:27:THR:C	44:BW:28:PHE:CG	2.91	0.41
44:BW:35:THR:N	44:BW:38:GLU:CB	2.84	0.41
45:BX:6:HIS:CD2	45:BX:71:LYS:HE2	2.56	0.41
37:BP:59:ARG:NH1	46:BY:177:PRO:HB2	2.36	0.41
46:BY:59:LEU:C	46:BY:59:LEU:CD2	2.89	0.41
46:BY:1:MET:CE	46:BY:61:LEU:HG	2.51	0.41
47:BZ:33:ALA:CA	47:BZ:61:ALA:O	2.60	0.41
32:BK:120:ILE:HG23	32:BK:120:ILE:O	2.21	0.41
32:BK:100:ALA:O	32:BK:101:LEU:C	2.57	0.41
32:BK:125:GLU:C	32:BK:125:GLU:CD	2.79	0.41
3:AD:17:C:N4	3:AD:19:G:C8	2.85	0.41
24:BA:2173:A:C2	24:BA:2174:C:H1'	2.56	0.41
24:BA:2175:C:N3	24:BA:2176:A:C8	2.89	0.41
26:BC:124:GLY:HA2	26:BC:137:LEU:CD2	2.51	0.41
26:BC:199:HIS:O	26:BC:200:LYS:C	2.59	0.41
26:BC:20:TYR:CE1	26:BC:222:VAL:CG1	3.04	0.41
26:BC:49:ILE:HG23	26:BC:208:PHE:HE1	1.85	0.41
1:AA:160:A:H2	1:AA:343:U:H1'	1.84	0.41
24:BA:1579:A:C5	24:BA:1580:A:H1'	2.56	0.41
12:AM:17:ASP:O	12:AM:21:GLN:CB	2.70	0.41
26:BC:207:THR:HG22	26:BC:207:THR:O	2.21	0.41
24:BA:1502:C:H6	24:BA:1502:C:O5'	2.04	0.41
2:A1:37:U:H2'	2:A1:38:U:N1	2.35	0.40
1:AA:1033:G:C2	1:AA:1034:G:C4	3.09	0.40
1:AA:1055:A:N6	1:AA:1206:G:C4	2.89	0.40
1:AA:1120:G:N1	1:AA:1154:G:C2	2.89	0.40
1:AA:1133:G:C5	1:AA:1134:G:N7	2.89	0.40
1:AA:1195:C:H5'	1:AA:1196:U:OP2	2.21	0.40
1:AA:1053:G:O6	1:AA:1200:C:OP2	2.39	0.40
1:AA:1269:A:C5	1:AA:1313:U:O4'	2.74	0.40
1:AA:978:A:C2	1:AA:1319:A:N3	2.89	0.40
1:AA:1338:G:C6	1:AA:1339:A:C6	3.09	0.40
1:AA:1422:G:C2	1:AA:1423:G:C8	3.10	0.40
1:AA:14:U:O2	1:AA:17:U:C5	2.74	0.40
1:AA:1517:G:C1'	24:BA:1920:C:P	3.06	0.40
1:AA:186(B):C:C4'	22:AW:89:ARG:NH2	2.83	0.40
1:AA:196:A:C8	1:AA:196:A:H3'	2.56	0.40
1:AA:22:G:OP2	1:AA:561:U:O2	2.39	0.40
1:AA:253:U:O4'	1:AA:276:G:H1'	2.21	0.40
1:AA:280:C:H1'	19:AT:38:ARG:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:374:A:O4'	1:AA:481:G:N2	2.54	0.40
1:AA:406:G:C8	1:AA:495:A:C2	3.09	0.40
1:AA:599:C:O3'	10:AK:96:GLY:HA3	2.21	0.40
1:AA:652:U:C1'	1:AA:653:A:C2	3.04	0.40
1:AA:780:A:N3	1:AA:803:G:N1	2.69	0.40
1:AA:942:G:H21	11:AL:124:GLN:CD	2.23	0.40
1:AA:972:C:OP2	12:AM:57:LYS:NZ	2.52	0.40
1:AA:986:A:H4'	21:AV:55:LYS:CE	2.51	0.40
1:AA:988:G:C6	1:AA:989:C:C4	3.09	0.40
1:AA:993:G:H21	1:AA:995:C:N4	2.19	0.40
3:AC:11:C:H2'	3:AC:12:U:C5	2.57	0.40
3:AC:38:A:C8	3:AC:39:U:C6	3.09	0.40
4:AE:222:ILE:CB	4:AE:226:ARG:HH21	2.23	0.40
5:AF:18:TRP:O	5:AF:21:ARG:HG2	2.20	0.40
5:AF:87:LEU:HB2	5:AF:101:LEU:HD12	2.02	0.40
6:AG:20:TYR:CD2	6:AG:27:TYR:CD2	3.09	0.40
7:AH:45:PHE:HE1	7:AH:47:LYS:CD	2.33	0.40
7:AH:64:ARG:HG2	7:AH:64:ARG:H	1.69	0.40
9:AJ:113:GLU:OE1	9:AJ:122:HIS:ND1	2.54	0.40
10:AK:14:ARG:HA	10:AK:17:THR:CB	2.50	0.40
10:AK:46:LYS:HG3	10:AK:64:LYS:HG3	2.03	0.40
10:AK:77:GLU:HB3	10:AK:78:GLN:H	1.45	0.40
11:AL:121:ARG:O	11:AL:121:ARG:HG2	2.21	0.40
12:AM:26:ALA:O	12:AM:84:GLN:CD	2.59	0.40
13:AN:73:MET:C	13:AN:75:TYR:N	2.74	0.40
14:AO:30:ALA:HB1	14:AO:31:PRO:CD	2.49	0.40
14:AO:27:LEU:CD2	14:AO:33:ARG:HD3	2.48	0.40
14:AO:57:LYS:HE2	14:AO:67:THR:CG2	2.50	0.40
15:AP:15:VAL:HG11	15:AP:34:LEU:HD23	2.03	0.40
15:AP:7:VAL:N	30:BG:114:ILE:HD13	2.36	0.40
15:AP:91:ARG:C	15:AP:98:VAL:HG22	2.41	0.40
17:AR:79:ARG:HG3	17:AR:82:ILE:HD12	2.02	0.40
1:AA:760:G:N1	19:AT:105:ALA:C	2.68	0.40
19:AT:10:VAL:HG12	19:AT:54:GLY:N	2.26	0.40
20:AU:50:ILE:HG22	20:AU:50:ILE:O	2.20	0.40
22:AW:13:LEU:O	22:AW:16:HIS:N	2.54	0.40
48:B1:36:ILE:O	48:B1:38:GLN:HG3	2.21	0.40
49:B2:17:LYS:O	49:B2:20:LYS:N	2.54	0.40
49:B2:27:GLY:O	49:B2:28:LEU:O	2.37	0.40
50:B3:42:PHE:O	50:B3:57:GLU:HA	2.20	0.40
50:B3:6:HIS:CB	50:B3:56:VAL:HA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:43:HIS:O	51:B4:44:THR:CG2	2.65	0.40
51:B4:47:PRO:O	51:B4:58:LEU:CD2	2.69	0.40
24:BA:1009:A:N1	24:BA:1010:A:C2	2.89	0.40
24:BA:1189:A:C5'	24:BA:1190:G:OP2	2.68	0.40
24:BA:839:U:H4'	24:BA:1191:G:H21	1.86	0.40
24:BA:1222:C:N3	24:BA:1223:C:C6	2.90	0.40
24:BA:1272:A:OP2	24:BA:1646:C:C2'	2.53	0.40
24:BA:1304:C:H2'	24:BA:1305:C:H5'	2.03	0.40
24:BA:1444(A):A:C8	24:BA:1460:A:O2'	2.74	0.40
24:BA:144:C:H2'	24:BA:145:G:C4'	2.51	0.40
24:BA:1519:G:N3	24:BA:1519:G:H2'	2.35	0.40
24:BA:1520:U:O5'	24:BA:1520:U:C6	2.74	0.40
24:BA:1551:C:C2	24:BA:1552:G:C8	3.09	0.40
24:BA:1603:A:N1	24:BA:1604:C:C4	2.89	0.40
24:BA:1625:C:C2	24:BA:1626:G:H1'	2.56	0.40
24:BA:1300:U:C2'	24:BA:1626:G:N2	2.67	0.40
24:BA:162:U:H2'	24:BA:162:U:O2	2.20	0.40
24:BA:1672:C:O2'	24:BA:1673:U:OP1	2.26	0.40
24:BA:1769:G:C2	24:BA:1984:G:C4	3.09	0.40
24:BA:1800:C:H1'	24:BA:1802:A:C8	2.56	0.40
24:BA:1841:U:C2	24:BA:1842:G:C8	3.08	0.40
24:BA:1945:G:H5'	24:BA:1945:G:H8	1.84	0.40
24:BA:2040:C:H2'	24:BA:2041:U:C6	2.56	0.40
24:BA:2069:G:C2	24:BA:2070:G:C8	3.09	0.40
24:BA:2080:G:H2'	24:BA:2081:C:O5'	2.21	0.40
24:BA:2097:C:C4	24:BA:2193:G:C6	3.09	0.40
24:BA:2236:C:C5'	24:BA:2236:C:H6	2.33	0.40
24:BA:224:G:N2	24:BA:225:A:H1'	2.36	0.40
24:BA:227:A:H62	24:BA:2407:G:H8	1.68	0.40
24:BA:2309:A:N3	24:BA:2309:A:C3'	2.83	0.40
24:BA:2298:A:C2	24:BA:2321:G:N1	2.89	0.40
24:BA:2287:A:H2	24:BA:2346:A:N6	2.18	0.40
24:BA:2355:C:OP1	47:BZ:25:ARG:NH2	2.54	0.40
24:BA:2390:U:H2'	24:BA:2391:G:O5'	2.21	0.40
24:BA:2427:C:H4'	24:BA:2428:G:H5''	2.01	0.40
24:BA:2437:U:O2'	24:BA:2438:U:H5'	2.21	0.40
24:BA:2572:A:C4'	24:BA:2573:C:OP1	2.69	0.40
24:BA:2580:U:C5	24:BA:2581:G:N7	2.89	0.40
24:BA:2603:G:C2'	24:BA:2604:U:H5'	2.50	0.40
24:BA:2633:G:C6	24:BA:2634:G:C5	3.09	0.40
24:BA:2658:C:C4	24:BA:2664:G:N2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2659:G:H2'	24:BA:2661:G:OP2	2.20	0.40
24:BA:2695:C:O2'	24:BA:2696:U:C6	2.74	0.40
24:BA:2734:A:H62	24:BA:2770:G:H1'	1.83	0.40
24:BA:2773:C:O2'	24:BA:2774:C:O5'	2.31	0.40
24:BA:301:G:H2'	24:BA:302:C:C5	2.49	0.40
24:BA:30:G:OP1	41:BT:11:ARG:CZ	2.69	0.40
24:BA:317:G:C2'	24:BA:318:C:H5'	2.50	0.40
24:BA:326:G:C4	24:BA:327:G:N7	2.89	0.40
24:BA:247:G:O2'	24:BA:386:G:C2	2.74	0.40
24:BA:465:G:C6	24:BA:466:A:C5	3.09	0.40
24:BA:508:G:C5'	24:BA:509:C:OP1	2.70	0.40
24:BA:516:C:O2'	24:BA:517:C:C5'	2.62	0.40
24:BA:535:C:C2'	24:BA:536:A:C5'	2.98	0.40
24:BA:579:G:N1	24:BA:580:C:C4	2.89	0.40
24:BA:584:C:O2'	24:BA:585:G:H5'	2.21	0.40
24:BA:598:G:C6	24:BA:660:G:C6	3.09	0.40
24:BA:684:G:C2	24:BA:775:G:C5	3.09	0.40
24:BA:691:C:C2'	24:BA:692:C:H5'	2.51	0.40
24:BA:70:G:H2'	24:BA:114:U:C6	2.56	0.40
24:BA:710:G:H2'	24:BA:711:G:H8	1.85	0.40
24:BA:849:A:H2'	24:BA:850:C:H6	1.84	0.40
24:BA:864:G:C2'	24:BA:865:C:C1'	2.91	0.40
24:BA:997:G:O2'	24:BA:998:C:O5'	2.39	0.40
25:BB:18:G:H2'	25:BB:19:G:H8	1.86	0.40
25:BB:1:U:O4'	25:BB:1:U:OP1	2.39	0.40
25:BB:40:U:H1'	25:BB:45:A:N6	2.22	0.40
25:BB:63:G:C4	25:BB:64:C:C5	3.09	0.40
27:BD:117:VAL:CG1	27:BD:129:ASN:OD1	2.56	0.40
27:BD:177:LEU:H	27:BD:177:LEU:CD2	2.26	0.40
28:BE:176:ILE:HG21	28:BE:181:LEU:HD12	2.03	0.40
28:BE:55:ASN:C	28:BE:57:LYS:H	2.24	0.40
28:BE:46:ALA:CB	28:BE:85:ASN:HD21	2.31	0.40
29:BF:69:HIS:O	29:BF:69:HIS:CG	2.71	0.40
30:BG:109:VAL:HG23	30:BG:109:VAL:O	2.21	0.40
30:BG:112:PRO:HG2	30:BG:112:PRO:O	2.20	0.40
30:BG:113:ARG:HH21	30:BG:139:LEU:HD22	1.86	0.40
30:BG:30:GLU:HB2	30:BG:162:THR:HG21	2.02	0.40
30:BG:119:GLY:CA	30:BG:180:PHE:CG	3.04	0.40
30:BG:19:LEU:HA	30:BG:22:ARG:HE	1.85	0.40
30:BG:33:ARG:NH2	30:BG:34:LEU:CA	2.84	0.40
32:BK:5:LEU:CG	32:BK:17:GLN:O	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2093:G:C5'	32:BK:25:TYR:CG	3.04	0.40
33:BL:131:ALA:C	33:BL:136:VAL:O	2.60	0.40
34:BM:46:VAL:CG1	34:BM:119:ARG:HH12	2.34	0.40
35:BN:54:GLU:HA	35:BN:54:GLU:OE1	2.21	0.40
35:BN:66:LYS:HA	35:BN:66:LYS:HD2	1.83	0.40
36:BO:126:VAL:HG23	36:BO:127:ALA:H	1.85	0.40
36:BO:130:PHE:O	36:BO:131:SER:O	2.39	0.40
24:BA:670:A:C2'	36:BO:41:ARG:CZ	2.87	0.40
36:BO:42:SER:HB3	36:BO:43:GLY:H	1.59	0.40
37:BP:12:GLN:O	37:BP:12:GLN:CD	2.59	0.40
37:BP:25:ASP:C	37:BP:26:TYR:CD2	2.95	0.40
37:BP:75:THR:HA	37:BP:91:GLU:HG2	2.01	0.40
38:BQ:52:ILE:CG2	38:BQ:53:HIS:N	2.83	0.40
38:BQ:7:GLY:O	38:BQ:8:ARG:O	2.38	0.40
38:BQ:41:ALA:CB	38:BQ:97:VAL:HG13	2.37	0.40
38:BQ:96:ARG:CD	38:BQ:98:LEU:HD11	2.51	0.40
39:BR:106:ARG:NH1	39:BR:106:ARG:HG2	2.36	0.40
40:BS:20:PRO:CB	40:BS:22:PHE:CE1	3.03	0.40
40:BS:61:PHE:O	40:BS:62:THR:CG2	2.67	0.40
40:BS:23:ARG:NH2	40:BS:89:VAL:HA	2.36	0.40
44:BW:7:VAL:CG2	48:B1:31:ARG:CZ	2.99	0.40
44:BW:7:VAL:HG21	48:B1:31:ARG:CZ	2.51	0.40
45:BX:2:ARG:HD2	45:BX:3:VAL:CA	2.49	0.40
45:BX:35:TYR:N	45:BX:35:TYR:CD1	2.87	0.40
45:BX:44:ILE:CG2	45:BX:44:ILE:O	2.63	0.40
45:BX:6:HIS:CD2	45:BX:33:LYS:NZ	2.89	0.40
45:BX:67:LEU:HD12	45:BX:71:LYS:HZ1	1.86	0.40
45:BX:81:LYS:NZ	45:BX:96:ILE:HG12	2.36	0.40
46:BY:16:SER:OG	46:BY:17:ALA:N	2.54	0.40
47:BZ:31:VAL:HG13	47:BZ:67:VAL:HG23	2.03	0.40
24:BA:856:C:C1'	47:BZ:69:PHE:CE1	3.00	0.40
26:BC:7:TYR:CE1	26:BC:10:LEU:HG	2.55	0.40
26:BC:64:LEU:CD1	26:BC:174:PRO:O	2.69	0.40
24:BA:433:C:H2'	24:BA:434:U:C6	2.56	0.40
1:AA:339:C:C4	1:AA:340:U:C5	3.10	0.40
1:AA:1009:G:N3	1:AA:1010:G:C8	2.89	0.40
26:BC:148:ASN:HB2	26:BC:151:GLU:CD	2.41	0.40
3:AC:44:G:C2'	3:AC:45:U:H5'	2.50	0.40
1:AA:1015:A:C5	1:AA:1016:A:C6	3.09	0.40
1:AA:1029:G:O2'	1:AA:1031:G:N7	2.43	0.40
24:BA:55:G:C2	24:BA:56:A:N7	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:47:U:C4	3:AB:49:C:H4'	2.56	0.40
1:AA:101:A:C2'	1:AA:102:G:H8	2.16	0.40
1:AA:116:A:OP1	1:AA:289:G:OP1	2.39	0.40
1:AA:122:G:H2'	1:AA:123:C:O4'	2.21	0.40
1:AA:1298:C:C5	9:AJ:114:ARG:CD	2.95	0.40
1:AA:1347:G:H3'	11:AL:107:ARG:CA	2.51	0.40
1:AA:1422:G:N1	1:AA:1423:G:C6	2.89	0.40
1:AA:142:G:HO2'	1:AA:196:A:H2	1.55	0.40
1:AA:1517:G:C6	1:AA:1518:A:C2	3.09	0.40
1:AA:186(A):C:N4	1:AA:191:G:N1	2.70	0.40
1:AA:191:G:C6	1:AA:192:U:C4	3.10	0.40
1:AA:22:G:N3	1:AA:23:C:C6	2.89	0.40
1:AA:261:U:C3'	1:AA:263:A:OP2	2.69	0.40
1:AA:310:G:C4	1:AA:311:C:C5	3.08	0.40
1:AA:315:A:N1	1:AA:330:C:C5	2.90	0.40
1:AA:363:A:N7	14:AO:30:ALA:CB	2.74	0.40
1:AA:413:G:N1	6:AG:36:ARG:NH1	2.69	0.40
1:AA:40:C:C2'	1:AA:41:G:O5'	2.69	0.40
1:AA:498:A:N6	1:AA:547:A:O5'	2.45	0.40
1:AA:59:A:N6	1:AA:331:G:H1'	2.36	0.40
1:AA:624:C:O2	1:AA:625:G:C8	2.75	0.40
1:AA:774:G:H3'	1:AA:775:G:C8	2.56	0.40
1:AA:796:C:OP1	13:AN:123:LYS:HD3	2.20	0.40
1:AA:835:U:C2	1:AA:852:G:N2	2.89	0.40
1:AA:873:A:H4'	1:AA:874:G:OP2	2.20	0.40
1:AA:885:G:O2'	1:AA:915:A:C2	2.74	0.40
3:AC:16:U:C4'	3:AC:18:G:H5"	2.46	0.40
3:AC:1:G:C2	3:AC:2:C:C4	3.10	0.40
3:AC:37:A:C6	3:AC:38:A:C6	3.09	0.40
3:AC:67:C:N4	3:AC:68:C:N4	2.68	0.40
3:AC:75:C:H3'	3:AC:75:C:C6	2.56	0.40
4:AE:118:LEU:CD1	4:AE:141:GLU:OE2	2.65	0.40
1:AA:843:U:N3	4:AE:37:ASN:HA	2.37	0.40
4:AE:97:TRP:HZ2	4:AE:102:LEU:HD11	1.80	0.40
5:AF:8:ILE:O	5:AF:9:GLY:C	2.59	0.40
6:AG:101:LEU:HG	6:AG:102:ASP:N	2.35	0.40
6:AG:153:ARG:O	6:AG:154:ASN:HB3	2.21	0.40
6:AG:208:SER:O	6:AG:209:ARG:NH1	2.43	0.40
8:AI:52:ILE:HD13	8:AI:87:ARG:HH21	1.70	0.40
8:AI:82:ARG:O	8:AI:84:ASN:N	2.54	0.40
9:AJ:10:ARG:CB	9:AJ:10:ARG:HH11	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:12:LEU:HD21	9:AJ:25:ALA:HB2	2.02	0.40
9:AJ:68:ASN:HB3	9:AJ:135:VAL:HG11	2.03	0.40
9:AJ:41:ARG:CZ	9:AJ:41:ARG:HB3	2.49	0.40
1:AA:824:C:H1'	10:AK:1:MET:O	2.22	0.40
10:AK:23:SER:HA	10:AK:62:TYR:HD1	1.86	0.40
12:AM:12:ASP:CB	12:AM:15:THR:HG22	2.51	0.40
5:AF:5:ILE:HG22	12:AM:51:ARG:NH2	2.37	0.40
12:AM:46:ARG:CD	12:AM:64:GLU:OE2	2.69	0.40
13:AN:13:GLN:CD	13:AN:76:GLY:H	2.23	0.40
14:AO:57:LYS:HG2	14:AO:67:THR:CG2	2.30	0.40
15:AP:15:VAL:HB	15:AP:34:LEU:HD21	2.02	0.40
15:AP:84:ILE:CD1	15:AP:86:CYS:SG	3.07	0.40
17:AR:25:THR:OG1	17:AR:26:GLU:N	2.54	0.40
18:AS:19:ILE:HD11	18:AS:38:TYR:C	2.42	0.40
19:AT:87:LYS:C	19:AT:91:ARG:HE	2.24	0.40
20:AU:36:ASN:H	20:AU:40:LEU:HD11	1.87	0.40
21:AV:11:VAL:CG1	21:AV:38:SER:OG	2.69	0.40
22:AW:25:ARG:NH1	22:AW:25:ARG:CG	2.84	0.40
1:AA:186(A):C:O4'	22:AW:85:MET:SD	2.79	0.40
49:B2:17:LYS:O	49:B2:18:ASP:C	2.59	0.40
49:B2:7:LYS:HE2	49:B2:32:GLN:HA	2.02	0.40
52:B5:52:VAL:CG1	52:B5:53:LYS:N	2.64	0.40
54:B7:38:GLY:C	54:B7:40:GLU:N	2.72	0.40
24:BA:104:U:C6	24:BA:104:U:OP2	2.73	0.40
24:BA:1065:U:C4	24:BA:1066:U:C6	3.09	0.40
24:BA:1142:U:C2'	24:BA:1142(A):A:O5'	2.70	0.40
24:BA:1162:G:OP2	24:BA:1162:G:H8	2.04	0.40
24:BA:1166:C:C2'	24:BA:1167:U:O5'	2.69	0.40
24:BA:187:G:C2'	24:BA:1365:A:H2	2.19	0.40
24:BA:1419:A:C8	24:BA:1421:G:O6	2.74	0.40
24:BA:144:C:H2'	24:BA:145:G:H5'	1.99	0.40
24:BA:1609:A:N3	24:BA:1609:A:H3'	2.36	0.40
24:BA:1649:G:N1	24:BA:1650:G:N7	2.69	0.40
24:BA:1652:A:N7	24:BA:1653:G:C2	2.89	0.40
24:BA:1651:G:O3'	24:BA:1652:A:O4'	2.38	0.40
24:BA:1727:U:O2'	24:BA:1728:G:P	2.76	0.40
24:BA:1815:A:H4'	24:BA:1817:G:O4'	2.21	0.40
24:BA:1838:C:C4	24:BA:1899:G:C6	3.10	0.40
24:BA:1906:G:N1	24:BA:1907:G:C5	2.90	0.40
24:BA:1944:U:O2'	24:BA:1955:U:C1'	2.68	0.40
24:BA:1955:U:O2'	24:BA:1956:U:P	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1975:G:C2	24:BA:1976:U:C2	3.10	0.40
24:BA:2027:G:C4	24:BA:2037:G:N1	2.88	0.40
24:BA:2031:A:N6	24:BA:2498:C:C1'	2.77	0.40
24:BA:2040:C:O5'	24:BA:2040:C:H6	2.05	0.40
24:BA:2048:G:C2	24:BA:2049:G:C8	3.10	0.40
24:BA:2051:A:N6	24:BA:2614:A:N7	2.70	0.40
24:BA:2091:U:C2'	24:BA:2092:U:OP1	2.69	0.40
24:BA:2253:G:H2'	24:BA:2254:C:O5'	2.20	0.40
24:BA:2280:G:C4	24:BA:2281:C:C5	3.10	0.40
24:BA:2306:C:C5	24:BA:2311:A:N6	2.80	0.40
24:BA:220:G:C4'	24:BA:234:C:H4'	2.21	0.40
24:BA:2392:A:HO2'	24:BA:2393:A:P	2.44	0.40
24:BA:241:A:O4'	24:BA:241:A:P	2.79	0.40
24:BA:2542:A:OP1	24:BA:2542:A:O4'	2.38	0.40
24:BA:2542:A:O4'	24:BA:2542:A:P	2.80	0.40
24:BA:2586:C:C4	24:BA:2587:A:N6	2.87	0.40
24:BA:2607:G:H2'	24:BA:2608:G:C5'	2.35	0.40
24:BA:2680:C:OP1	28:BE:190:GLY:CA	2.66	0.40
24:BA:270(B):A:H4'	24:BA:270(C):C:C6	2.55	0.40
24:BA:2754:U:C6	24:BA:2754:U:H3'	2.56	0.40
24:BA:2756:U:O2'	24:BA:2757:A:OP2	2.37	0.40
24:BA:286:C:H2'	24:BA:287:C:O4'	2.21	0.40
24:BA:2886:G:H21	24:BA:2887:U:H1'	1.85	0.40
24:BA:2899:G:O6	24:BA:2900:A:N6	2.54	0.40
24:BA:295:G:C8	24:BA:338:G:N2	2.89	0.40
24:BA:459:U:H2'	24:BA:460:A:H8	1.86	0.40
24:BA:463:G:C2	24:BA:467:G:C5	3.09	0.40
24:BA:484:C:C2'	24:BA:485:C:C6	2.83	0.40
24:BA:506:G:O4'	24:BA:506:G:OP2	2.40	0.40
24:BA:541:C:H5''	24:BA:542:C:OP2	2.21	0.40
24:BA:551:G:O4'	24:BA:1220:A:N1	2.54	0.40
24:BA:601:C:C1'	29:BF:104:LYS:NZ	2.83	0.40
24:BA:609(A):G:C5	24:BA:610:C:C5	3.09	0.40
24:BA:618:G:C2'	24:BA:618(A):C:C6	3.01	0.40
24:BA:60:G:N7	24:BA:63:U:O4	2.53	0.40
24:BA:700:G:C2	24:BA:701:G:C8	3.10	0.40
24:BA:70:G:C4'	24:BA:71:A:H5'	2.51	0.40
24:BA:730:C:C2	24:BA:731:C:C5	3.08	0.40
24:BA:748:G:OP2	43:BV:88:ARG:NE	2.54	0.40
24:BA:799:G:C5	24:BA:800:A:N1	2.89	0.40
24:BA:861:A:P	24:BA:862:G:OP2	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:848:G:N3	24:BA:933:A:N3	2.68	0.40
24:BA:960:A:H8	24:BA:960:A:O5'	2.04	0.40
24:BA:967:C:O2'	24:BA:968:G:H5'	2.20	0.40
24:BA:987:G:O2'	24:BA:1000:A:C1'	2.58	0.40
25:BB:40:U:C2'	25:BB:41:U:OP1	2.70	0.40
25:BB:37:C:N4	25:BB:44:G:C6	2.89	0.40
25:BB:65:C:C2'	25:BB:66:A:H5'	2.50	0.40
25:BB:73:A:C2'	25:BB:74:U:O5'	2.69	0.40
27:BD:51:VAL:HG11	27:BD:52:ARG:NH1	2.37	0.40
27:BD:85:ASP:OD1	27:BD:87:ASN:O	2.39	0.40
28:BE:14:ILE:O	28:BE:14:ILE:CD1	2.69	0.40
28:BE:186:GLY:O	28:BE:188:VAL:N	2.49	0.40
29:BF:142:TRP:O	29:BF:143:ALA:C	2.58	0.40
29:BF:184:TYR:HB2	29:BF:185:ASP:H	1.68	0.40
29:BF:66:PRO:HG2	29:BF:66:PRO:O	2.21	0.40
30:BG:138:GLN:C	30:BG:140:ILE:N	2.73	0.40
30:BG:153:ARG:C	30:BG:155:MET:SD	3.00	0.40
30:BG:134:GLY:CA	30:BG:156:ASP:HA	2.51	0.40
30:BG:172:LEU:HD12	30:BG:172:LEU:C	2.41	0.40
30:BG:107:LEU:CG	30:BG:177:GLY:O	2.70	0.40
31:BH:159:GLU:OE2	31:BH:163:TYR:HE1	2.05	0.40
33:BL:104:VAL:HG11	33:BL:124:ALA:O	2.21	0.40
33:BL:105:LEU:HD23	33:BL:105:LEU:H	1.84	0.40
33:BL:105:LEU:HA	33:BL:124:ALA:HB2	2.03	0.40
34:BM:74:ARG:CZ	34:BM:82:LEU:HD21	2.51	0.40
35:BN:70:LYS:CE	35:BN:104:ARG:HG3	2.44	0.40
35:BN:11:ALA:HA	35:BN:14:THR:HG21	2.02	0.40
35:BN:21:CYS:SG	35:BN:23:ARG:N	2.94	0.40
35:BN:9:GLU:C	35:BN:82:ASN:HB3	2.42	0.40
36:BO:108:LYS:HG2	36:BO:109:GLY:N	2.35	0.40
37:BP:37:LEU:CB	37:BP:38:GLU:OE2	2.69	0.40
37:BP:48:GLU:O	37:BP:52:VAL:HG23	2.21	0.40
24:BA:2690:C:N4	38:BQ:14:SER:CB	2.84	0.40
38:BQ:30:THR:CG2	38:BQ:31:HIS:CE1	3.04	0.40
38:BQ:3:HIS:C	38:BQ:3:HIS:ND1	2.74	0.40
24:BA:2851:A:H1'	38:BQ:61:HIS:NE2	2.36	0.40
38:BQ:97:VAL:O	38:BQ:98:LEU:HG	2.20	0.40
39:BR:28:VAL:CB	39:BR:101:LEU:HG	2.51	0.40
24:BA:2020:A:P	41:BT:27:LEU:HD22	2.62	0.40
41:BT:36:ARG:O	41:BT:40:PHE:CD1	2.75	0.40
24:BA:1156:A:P	41:BT:55:ARG:NH2	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:81:HIS:HB3	41:BT:117:GLN:HE22	1.82	0.40
42:BU:38:LEU:H	42:BU:38:LEU:CD2	2.33	0.40
41:BT:40:PHE:CE2	42:BU:84:LYS:HG2	2.56	0.40
42:BU:15:GLU:O	42:BU:98:GLU:OE1	2.39	0.40
43:BV:3:ALA:CB	43:BV:107:LEU:HB3	2.41	0.40
45:BX:9:LYS:HD2	45:BX:110:GLU:CG	2.52	0.40
46:BY:14:LYS:HD3	46:BY:14:LYS:N	2.36	0.40
46:BY:158:PRO:O	46:BY:161:VAL:HG22	2.21	0.40
46:BY:151:HIS:CD2	46:BY:170:THR:H	2.39	0.40
46:BY:50:GLN:C	46:BY:52:SER:N	2.73	0.40
26:BC:100:ILE:CG2	26:BC:126:LYS:HE2	2.51	0.40
26:BC:25:ALA:O	26:BC:26:ALA:C	2.57	0.40
15:AP:58:GLU:C	15:AP:61:GLU:HB2	2.41	0.40
1:AA:159:G:N1	1:AA:163:C:N4	2.70	0.40
24:BA:1582:C:O5'	24:BA:1583:A:H5''	2.21	0.40
33:BL:49:GLY:O	33:BL:50:ASP:OD2	2.39	0.40
1:AA:1170:A:H3'	1:AA:1170:A:C8	2.56	0.40
24:BA:1766:U:C2'	24:BA:1767:C:H5'	2.52	0.40
6:AG:160:GLN:HA	6:AG:160:GLN:OE1	2.20	0.40
14:AO:17:LYS:O	14:AO:18:VAL:O	2.39	0.40
15:AP:12:ASN:OD1	15:AP:12:ASN:O	2.38	0.40
2:A1:30:U:C4	2:A1:31:U:N3	2.90	0.40
2:A1:8:U:H2'	2:A1:8:U:O2	2.21	0.40
1:AA:1049:U:O2	1:AA:1201:A:H1'	2.21	0.40
1:AA:1151:A:H1'	12:AM:39:PRO:CB	2.52	0.40
1:AA:1196:U:C5'	1:AA:1197:G:H5'	2.45	0.40
1:AA:1245:A:C6	1:AA:1293:G:N1	2.89	0.40
1:AA:1253:G:H22	1:AA:1285:A:N6	2.19	0.40
1:AA:1273:G:C2'	1:AA:1274:G:H8	2.35	0.40
1:AA:1309:G:C1'	15:AP:74:VAL:HG13	2.51	0.40
1:AA:1338:G:C6	1:AA:1339:A:N6	2.90	0.40
1:AA:1350:A:H2'	1:AA:1351:U:H6	1.86	0.40
1:AA:1395:C:H2'	1:AA:1396:A:O5'	2.21	0.40
1:AA:1431:C:O2'	1:AA:1432:G:C5'	2.69	0.40
1:AA:1477:C:C2	1:AA:1478:C:C5	3.09	0.40
1:AA:222:U:C2	1:AA:223:U:C5	3.09	0.40
1:AA:335:C:H4'	1:AA:1434:A:H4'	2.02	0.40
1:AA:398:C:H2'	1:AA:399:G:C8	2.56	0.40
1:AA:426:G:C2	1:AA:427:U:C2	3.09	0.40
1:AA:464:G:O5'	1:AA:464:G:H8	2.03	0.40
1:AA:477:G:C2	1:AA:478:A:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:521:G:P	14:AO:54:LYS:NZ	2.95	0.40
1:AA:528:C:C4'	1:AA:535:A:N6	2.84	0.40
1:AA:938:A:C2'	1:AA:939:G:C5'	2.98	0.40
3:AC:19:G:N1	3:AC:56:C:N4	2.68	0.40
3:AC:37:A:N6	3:AC:38:A:N1	2.70	0.40
3:AC:52:G:C6	3:AC:53:G:C5	3.10	0.40
4:AE:9:GLU:CG	4:AE:10:LEU:N	2.83	0.40
4:AE:163:PHE:CZ	4:AE:187:LEU:N	2.90	0.40
4:AE:167:PRO:CG	4:AE:168:THR:N	2.83	0.40
4:AE:71:VAL:HG22	4:AE:93:VAL:CA	2.52	0.40
5:AF:84:ILE:HA	5:AF:101:LEU:CD1	2.50	0.40
6:AG:122:ARG:HA	6:AG:134:ASP:HB2	2.03	0.40
6:AG:13:ARG:HA	6:AG:32:ALA:HB2	2.02	0.40
6:AG:177:ASP:C	6:AG:179:GLU:N	2.74	0.40
6:AG:58:LEU:HD13	6:AG:58:LEU:O	2.22	0.40
1:AA:402:G:OP1	6:AG:74:GLN:NE2	2.54	0.40
7:AH:79:GLU:OE1	10:AK:105:ARG:HB2	2.22	0.40
9:AJ:42:ILE:HG22	9:AJ:117:ALA:HA	2.04	0.40
10:AK:119:LEU:HB3	10:AK:123:GLU:OE2	2.20	0.40
10:AK:39:LEU:HD13	10:AK:39:LEU:HA	1.71	0.40
1:AA:1148:U:C5'	11:AL:16:ARG:HD2	2.51	0.40
11:AL:16:ARG:HH12	11:AL:64:THR:HG21	1.86	0.40
12:AM:12:ASP:O	12:AM:15:THR:CG2	2.67	0.40
12:AM:76:ASN:N	12:AM:76:ASN:ND2	2.69	0.40
14:AO:41:ARG:C	14:AO:42:THR:HG22	2.41	0.40
14:AO:6:THR:HG21	14:AO:9:GLN:OE1	2.21	0.40
14:AO:93:LEU:CD2	14:AO:93:LEU:N	2.80	0.40
16:AQ:8:GLU:O	16:AQ:10:ALA:N	2.55	0.40
17:AR:7:GLU:CB	17:AR:10:LYS:HE3	2.45	0.40
17:AR:63:ARG:HH22	17:AR:87:ILE:CD1	2.30	0.40
17:AR:7:GLU:HA	17:AR:10:LYS:CG	2.51	0.40
19:AT:15:MET:HB3	19:AT:18:THR:OG1	2.21	0.40
22:AW:14:LYS:O	22:AW:17:ARG:N	2.54	0.40
22:AW:56:MET:SD	22:AW:56:MET:O	2.78	0.40
48:B1:22:GLU:CD	48:B1:22:GLU:N	2.74	0.40
50:B3:11:PRO:O	50:B3:12:ALA:CB	2.70	0.40
50:B3:65:ASP:CA	50:B3:68:ARG:HH12	2.33	0.40
51:B4:41:PRO:HG2	51:B4:44:THR:OG1	2.20	0.40
53:B6:10:ARG:HB3	53:B6:14:LYS:HD2	2.03	0.40
53:B6:33:ARG:O	53:B6:37:LYS:HG3	2.21	0.40
24:BA:458:G:O2'	53:B6:40:TRP:CZ2	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:B6:5:TRP:CD2	53:B6:7:PRO:HD3	2.56	0.40
24:BA:1012:U:H5'	24:BA:1013:C:P	2.61	0.40
24:BA:1023:U:N3	24:BA:1024:G:H1'	2.37	0.40
24:BA:1024:G:H5''	24:BA:1025:G:H5'	1.91	0.40
24:BA:1079:C:H4'	33:BL:132:ARG:HH12	1.87	0.40
24:BA:1174:A:N1	24:BA:1177:A:C5	2.89	0.40
24:BA:119:A:C3'	24:BA:120:U:H5'	2.51	0.40
24:BA:1200:C:C2	24:BA:1201:C:H5	2.39	0.40
24:BA:1328:G:O2'	24:BA:1329:U:H5''	2.21	0.40
24:BA:1332:G:C6	24:BA:1609:A:C6	3.09	0.40
24:BA:1403:C:C2'	24:BA:1404:C:O5'	2.69	0.40
24:BA:1422:G:H4'	24:BA:1493:C:O2'	2.21	0.40
24:BA:1495:A:P	24:BA:1496:A:OP2	2.79	0.40
24:BA:1565:C:C4	24:BA:1567:A:C1'	3.04	0.40
24:BA:1614:A:H5''	24:BA:1615:C:OP2	2.21	0.40
24:BA:1631:A:H2'	24:BA:1632:A:O5'	2.21	0.40
24:BA:1655:A:H2'	24:BA:1656:C:C1'	2.50	0.40
24:BA:1688:U:H3	24:BA:1700:A:C5'	2.34	0.40
24:BA:1695:G:N2	24:BA:1696:G:N9	2.70	0.40
24:BA:1790:C:O2	24:BA:1791:A:N7	2.54	0.40
24:BA:1799:G:C8	27:BD:183:ARG:NH1	2.87	0.40
24:BA:1806:C:H6	24:BA:1806:C:O5'	2.03	0.40
24:BA:1837:C:H1'	24:BA:1928:A:N3	2.36	0.40
24:BA:1845:G:C5	24:BA:1896:G:N1	2.89	0.40
24:BA:1847:A:O2'	24:BA:1848:A:C8	2.74	0.40
24:BA:1930:G:H2'	24:BA:1968:G:C6	2.56	0.40
24:BA:1940:U:H4'	24:BA:1941:C:OP1	2.21	0.40
24:BA:2040:C:C4	24:BA:2041:U:O4	2.74	0.40
24:BA:2043:C:C2	24:BA:2044:C:C5	3.10	0.40
24:BA:2255:G:C6	24:BA:2256:G:C5	3.10	0.40
24:BA:2285:C:C4'	24:BA:2288:A:N6	2.83	0.40
24:BA:2300:G:C2'	24:BA:2301:C:H5'	2.51	0.40
24:BA:2312:U:HO2'	30:BG:40:ASN:ND2	2.17	0.40
24:BA:2360:A:OP1	54:B7:49:VAL:HG22	2.20	0.40
24:BA:2371:G:H2'	24:BA:2372:G:C1'	2.51	0.40
24:BA:2383:G:N2	24:BA:2384:G:C2	2.89	0.40
24:BA:2457:U:C4	24:BA:2458:G:C2	3.09	0.40
24:BA:251:A:C5	24:BA:252:G:H1'	2.57	0.40
24:BA:2520:C:N4	24:BA:2567:G:C5	2.90	0.40
24:BA:2569:G:O2'	24:BA:2570:G:O5'	2.32	0.40
24:BA:2578:G:N7	28:BE:140:SER:CB	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:2509:G:C2	24:BA:2580:U:C2	3.09	0.40
24:BA:2618:G:C4	24:BA:2619:C:C5	3.10	0.40
24:BA:2649:U:C2	24:BA:2650:U:C5	3.09	0.40
24:BA:270(E):G:C6	24:BA:270(F):U:C4	3.10	0.40
24:BA:270(W):G:C5	24:BA:270(X):G:N7	2.88	0.40
24:BA:2718:G:O3'	40:BS:101:PHE:HD1	2.03	0.40
24:BA:2776:A:H2	24:BA:2778:A:H2'	1.81	0.40
24:BA:2865:U:C6	24:BA:2865:U:O5'	2.62	0.40
24:BA:2870:C:O2	24:BA:2871:C:H1'	2.21	0.40
24:BA:2893:G:H2'	24:BA:2894:G:OP2	2.21	0.40
24:BA:292:C:C1'	24:BA:293:U:H3	2.34	0.40
24:BA:392:C:C2	24:BA:393:C:C5	3.09	0.40
24:BA:408:G:C2	24:BA:409:C:C6	3.09	0.40
24:BA:428:A:H3'	24:BA:429:A:C8	2.56	0.40
24:BA:463:G:C2	24:BA:467:G:C6	3.09	0.40
24:BA:514:A:H2'	24:BA:515:A:C5'	2.50	0.40
24:BA:528:A:C8	24:BA:528:A:C3'	3.03	0.40
24:BA:528:A:C8	24:BA:528:A:H3'	2.56	0.40
24:BA:544:C:C2'	24:BA:545:G:H5'	2.52	0.40
24:BA:558:G:O2'	24:BA:559:G:H5'	2.20	0.40
24:BA:5:A:N3	24:BA:6:A:C8	2.89	0.40
24:BA:638:G:H21	24:BA:651:G:H5'	1.86	0.40
24:BA:64:A:H5'	44:BW:73:ARG:CA	2.48	0.40
24:BA:728:G:C4'	24:BA:729:G:C8	3.05	0.40
24:BA:850:C:C2	24:BA:851:U:C6	3.09	0.40
25:BB:2:C:OP2	25:BB:2:C:C6	2.74	0.40
25:BB:43:C:H2'	25:BB:44:G:C5'	2.50	0.40
25:BB:7:G:O2'	25:BB:8:U:P	2.78	0.40
27:BD:137:PRO:HG2	27:BD:140:THR:CG2	2.52	0.40
27:BD:173:VAL:O	27:BD:184:LYS:HG3	2.20	0.40
27:BD:261:LYS:C	27:BD:263:ARG:H	2.23	0.40
24:BA:2821:A:OP2	28:BE:110:GLY:O	2.40	0.40
28:BE:118:LYS:HD3	28:BE:119:ARG:H	1.86	0.40
28:BE:119:ARG:HD2	28:BE:156:MET:N	2.29	0.40
28:BE:125:GLY:C	28:BE:135:HIS:O	2.60	0.40
28:BE:54:GLN:CB	28:BE:57:LYS:NZ	2.84	0.40
29:BF:106:ARG:CG	29:BF:107:LYS:HG3	2.49	0.40
29:BF:153:SER:H	29:BF:190:GLU:CG	2.32	0.40
29:BF:51:THR:O	29:BF:52:LYS:CB	2.69	0.40
29:BF:54:ARG:HA	29:BF:56:GLU:OE1	2.21	0.40
29:BF:77:ASP:O	29:BF:77:ASP:CG	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BG:139:LEU:CD1	30:BG:142:PRO:CB	2.94	0.40
30:BG:141:PHE:O	30:BG:143:GLU:N	2.52	0.40
30:BG:172:LEU:HG	30:BG:173:LEU:N	2.37	0.40
30:BG:74:LYS:C	30:BG:76:SER:N	2.72	0.40
30:BG:8:LYS:HE2	30:BG:103:LEU:HD23	2.04	0.40
31:BH:156:ALA:O	31:BH:157:TYR:CD2	2.74	0.40
31:BH:97:ARG:NH1	31:BH:99:VAL:HG22	2.36	0.40
24:BA:1058:G:C2	33:BL:116:ASN:ND2	2.90	0.40
33:BL:75:SER:O	33:BL:78:ILE:HB	2.22	0.40
34:BM:123:TYR:HD2	34:BM:130:HIS:HD2	1.69	0.40
34:BM:36:GLY:HA2	34:BM:47:ALA:C	2.41	0.40
34:BM:57:ALA:HB3	34:BM:124:ALA:CB	2.51	0.40
34:BM:74:ARG:HG2	34:BM:76:SER:OG	2.20	0.40
35:BN:106:LEU:C	35:BN:106:LEU:CD1	2.87	0.40
35:BN:86:ILE:HD13	35:BN:90:GLN:CG	2.50	0.40
35:BN:12:ASP:C	35:BN:94:ARG:HB3	2.42	0.40
24:BA:833:U:O2'	36:BO:49:ARG:HD3	2.20	0.40
36:BO:65:ARG:NH1	36:BO:68:GLN:HE22	2.16	0.40
36:BO:96:THR:O	36:BO:97:PRO:C	2.58	0.40
36:BO:76:LYS:NZ	36:BO:99:LEU:CD1	2.83	0.40
38:BQ:86:ARG:NH2	38:BQ:118:GLU:OE1	2.55	0.40
38:BQ:28:LEU:O	38:BQ:30:THR:N	2.54	0.40
38:BQ:54:LEU:HA	38:BQ:57:ARG:HB2	2.01	0.40
39:BR:11:LYS:CA	39:BR:14:VAL:CG2	2.92	0.40
39:BR:14:VAL:O	39:BR:15:ARG:C	2.60	0.40
41:BT:16:LYS:CD	41:BT:17:ILE:HD13	2.51	0.40
24:BA:997:G:C3'	41:BT:92:ARG:NH1	2.84	0.40
42:BU:40:LEU:CD1	42:BU:55:ALA:CA	2.92	0.40
43:BV:78:GLU:OE2	43:BV:99:ARG:C	2.60	0.40
24:BA:1615:C:N3	43:BV:87:PRO:HG3	2.36	0.40
44:BW:25:LYS:HA	44:BW:82:GLN:HA	2.03	0.40
44:BW:6:ASP:CG	44:BW:7:VAL:N	2.75	0.40
46:BY:99:TYR:HD1	46:BY:126:VAL:HG23	1.87	0.40
32:BK:88:ILE:HD11	32:BK:123:LEU:HD22	2.02	0.40
24:BA:2139:C:O2'	24:BA:2140:C:H5'	2.21	0.40
26:BC:175:VAL:C	26:BC:188:ASN:HB3	2.42	0.40
26:BC:52:ARG:NH1	26:BC:52:ARG:CB	2.85	0.40
26:BC:59:ARG:HD3	26:BC:164:ARG:HG2	2.00	0.40
26:BC:68:LEU:C	26:BC:68:LEU:HD23	2.41	0.40
1:AA:1009:G:C2	1:AA:1010:G:C8	3.08	0.40
39:BR:59:LYS:N	39:BR:59:LYS:CD	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1029:G:H21	1:AA:1031:G:H3'	1.86	0.40
24:BA:2106:G:N1	24:BA:2184:G:C5	2.89	0.40
1:AA:457:C:C6	1:AA:457:C:H3'	2.56	0.40
33:BL:59:ILE:HA	33:BL:64:SER:O	2.22	0.40
2:A1:9:U:C2	2:A1:13:U:O4	2.74	0.40
2:A1:52:U:O4'	6:AG:49:ARG:O	2.40	0.40
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.55	0.40
1:AA:1277:C:C5	1:AA:1278:U:O2	2.74	0.40
1:AA:136:C:O2	1:AA:137:C:C6	2.75	0.40
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.86	0.40
1:AA:1397:C:H42	2:A1:46:U:H5	1.69	0.40
1:AA:1459:C:OP1	22:AW:27:LYS:NZ	2.54	0.40
1:AA:1472:U:H6	1:AA:1472:U:O5'	2.04	0.40
1:AA:172:A:N7	1:AA:174:C:C4	2.89	0.40
1:AA:193:C:O2'	1:AA:194:C:C5'	2.69	0.40
1:AA:247:G:C6	1:AA:278:G:C2	3.09	0.40
1:AA:260:G:C2	1:AA:261:U:O2	2.75	0.40
1:AA:260:G:N3	1:AA:261:U:O2	2.54	0.40
1:AA:27:G:P	1:AA:27:G:H8	2.44	0.40
1:AA:551:U:C2	1:AA:552:U:C5	3.09	0.40
1:AA:560:U:N3	1:AA:566:G:O4'	2.54	0.40
1:AA:650:G:C2	1:AA:651:C:C6	3.09	0.40
1:AA:670:G:C6	1:AA:671:G:N7	2.90	0.40
1:AA:673:G:C2	1:AA:674:G:C6	3.10	0.40
1:AA:688:G:N1	1:AA:700:G:C6	2.89	0.40
1:AA:744:C:H2'	1:AA:745:C:H6	1.86	0.40
1:AA:901:A:H2	1:AA:902:G:O2'	2.04	0.40
1:AA:979:C:OP2	1:AA:981:U:N3	2.52	0.40
3:AD:34:G:C2'	3:AD:34:G:N3	2.84	0.40
3:AD:37:A:H3'	3:AD:38:A:C8	2.54	0.40
4:AE:179:LYS:HB3	10:AK:72:PRO:HB3	2.03	0.40
4:AE:80:ILE:CG1	4:AE:208:ILE:HD13	2.51	0.40
4:AE:50:GLU:O	4:AE:53:ARG:HB3	2.21	0.40
5:AF:119:ARG:O	5:AF:120:VAL:C	2.60	0.40
5:AF:123:GLN:O	5:AF:124:ILE:C	2.60	0.40
5:AF:164:ARG:CG	5:AF:165:THR:H	2.34	0.40
5:AF:77:ILE:HD13	5:AF:84:ILE:HB	2.04	0.40
6:AG:106:TYR:O	6:AG:108:LEU:N	2.54	0.40
6:AG:187:ARG:NH2	6:AG:188:LEU:HD21	2.37	0.40
6:AG:57:ARG:HH22	7:AH:107:ARG:HE	1.65	0.40
6:AG:91:SER:OG	6:AG:92:VAL:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:109:ILE:CG2	7:AH:110:LEU:H	2.32	0.40
7:AH:110:LEU:O	7:AH:111:GLU:C	2.59	0.40
8:AI:3:ARG:O	8:AI:93:SER:CB	2.69	0.40
9:AJ:123:GLU:OE1	9:AJ:134:ALA:N	2.45	0.40
9:AJ:26:PHE:C	9:AJ:26:PHE:CD1	2.92	0.40
9:AJ:36:LYS:O	9:AJ:39:ALA:HB3	2.21	0.40
9:AJ:91:VAL:O	9:AJ:92:SER:O	2.40	0.40
10:AK:70:GLN:HA	10:AK:70:GLN:NE2	2.37	0.40
10:AK:87:SER:HB3	10:AK:93:VAL:N	2.30	0.40
10:AK:88:LYS:HZ3	10:AK:88:LYS:N	2.17	0.40
11:AL:33:PHE:CZ	11:AL:43:ALA:O	2.74	0.40
11:AL:89:ASN:C	11:AL:91:ASP:H	2.23	0.40
11:AL:93:ARG:O	11:AL:95:LYS:N	2.46	0.40
13:AN:14:VAL:HG11	13:AN:35:PRO:HG2	2.02	0.40
15:AP:3:ARG:NH2	30:BG:113:ARG:NE	2.69	0.40
15:AP:91:ARG:HD2	15:AP:96:LEU:HG	2.03	0.40
17:AR:79:ARG:O	17:AR:82:ILE:HB	2.22	0.40
18:AS:3:LYS:CD	18:AS:24:ALA:HB2	2.52	0.40
19:AT:13:ASP:HB3	19:AT:52:LYS:HG2	2.03	0.40
19:AT:68:ARG:N	19:AT:70:ARG:CZ	2.83	0.40
8:AI:99:ALA:HB3	20:AU:31:LEU:HD11	2.01	0.40
1:AA:736:C:C5'	20:AU:72:ARG:HH22	2.02	0.40
21:AV:66:MET:O	21:AV:69:HIS:HD2	2.04	0.40
21:AV:68:GLY:C	21:AV:69:HIS:CG	2.95	0.40
22:AW:23:ARG:O	22:AW:24:LEU:O	2.39	0.40
22:AW:66:ALA:O	22:AW:68:LYS:N	2.55	0.40
22:AW:76:ALA:C	22:AW:78:ALA:N	2.74	0.40
23:AX:3:LYS:HZ2	23:AX:13:ILE:CG2	2.33	0.40
48:B1:16:LEU:CD2	48:B1:59:LEU:HB2	2.51	0.40
50:B3:33:VAL:HG13	50:B3:35:VAL:HG23	2.04	0.40
51:B4:4:HIS:CG	51:B4:5:PRO:N	2.88	0.40
52:B5:17:LYS:HE2	52:B5:48:VAL:HG13	2.04	0.40
52:B5:35:GLU:O	52:B5:51:GLU:OE2	2.39	0.40
52:B5:38:LYS:HB3	52:B5:39:TYR:H	1.40	0.40
53:B6:18:PHE:O	53:B6:19:ARG:C	2.59	0.40
24:BA:1024:G:C6	24:BA:1025:G:N7	2.90	0.40
24:BA:1142:U:H2'	24:BA:1142(A):A:O5'	2.21	0.40
24:BA:1180:C:H2'	24:BA:1181:C:C5	2.54	0.40
24:BA:1222:C:N3	24:BA:1227:A:N6	2.70	0.40
24:BA:128:C:N4	24:BA:129:C:N4	2.69	0.40
24:BA:1333:C:N3	24:BA:1334:G:N7	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:1367:A:C8	24:BA:1367:A:H3'	2.56	0.40
24:BA:122:G:OP1	24:BA:149:A:O2'	2.39	0.40
24:BA:1545(A):A:H8	24:BA:1545(A):A:P	2.44	0.40
24:BA:1567:A:N6	27:BD:84:TYR:CE1	2.89	0.40
24:BA:1613:G:N7	24:BA:1617:C:C5	2.89	0.40
24:BA:1641:A:H8	24:BA:1641:A:OP2	2.05	0.40
24:BA:1750:G:C4	24:BA:1751:C:C5	3.09	0.40
24:BA:1977:A:O2'	24:BA:1978:A:O5'	2.39	0.40
24:BA:1991:U:C2'	24:BA:1992:G:OP2	2.69	0.40
24:BA:2023:G:C6	24:BA:2024:G:C6	3.10	0.40
24:BA:21:A:H2'	24:BA:22:C:H6	1.86	0.40
24:BA:2208:U:O3'	27:BD:151:LYS:NZ	2.53	0.40
24:BA:219:G:O2'	24:BA:220:G:H5'	2.22	0.40
24:BA:2216:G:C2	24:BA:2217:G:C8	3.09	0.40
24:BA:2259:G:C4	24:BA:2427:C:N4	2.90	0.40
24:BA:2285:C:OP2	52:B5:27:LYS:HE3	2.21	0.40
24:BA:2287:A:N7	24:BA:2289:G:C4	2.88	0.40
24:BA:2339:G:H2'	24:BA:2340:G:H8	1.87	0.40
24:BA:2345:G:H21	24:BA:2381:C:C2'	2.34	0.40
24:BA:2458:G:C5	24:BA:2490:G:C6	3.09	0.40
24:BA:2519:U:C4'	24:BA:2520:C:OP1	2.68	0.40
24:BA:2556:C:H2'	24:BA:2557:G:C4'	2.50	0.40
24:BA:2574:G:O2'	28:BE:143:ASN:CB	2.69	0.40
24:BA:2596:U:C5	24:BA:2597:G:C6	3.10	0.40
24:BA:2599:G:H2'	24:BA:2600:A:H8	1.87	0.40
24:BA:2639:A:N3	24:BA:2778:A:C2	2.89	0.40
24:BA:2737:G:N3	24:BA:2738:A:C8	2.89	0.40
24:BA:1051:G:C4'	24:BA:2752:C:O4'	2.68	0.40
24:BA:2782:G:C2	24:BA:2783:G:C5	3.10	0.40
24:BA:2808:U:H5''	24:BA:2809:A:OP2	2.21	0.40
24:BA:2857:G:N2	24:BA:2861:G:C4	2.90	0.40
24:BA:2881:C:C2	24:BA:2882:A:C8	3.09	0.40
24:BA:298:G:H1	24:BA:338:G:C4'	2.34	0.40
24:BA:335:C:C2	24:BA:336:C:C5	3.10	0.40
24:BA:322:A:H1'	24:BA:341:G:C8	2.57	0.40
24:BA:447:A:C2	24:BA:473:G:C8	3.09	0.40
24:BA:573:G:O3'	24:BA:576:U:O4	2.39	0.40
24:BA:613:U:C5	24:BA:614:U:C2	3.09	0.40
24:BA:623:G:N7	24:BA:624:C:C5	2.90	0.40
24:BA:64:A:H4'	44:BW:73:ARG:N	2.37	0.40
24:BA:705:A:N6	24:BA:727:A:C1'	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:718:A:H8	24:BA:719:C:C6	2.38	0.40
24:BA:784:A:OP1	24:BA:2587:A:O2'	2.37	0.40
24:BA:930:U:C3'	24:BA:930:U:C6	3.05	0.40
24:BA:932:G:N2	24:BA:933:A:C2	2.89	0.40
24:BA:939:G:H2'	24:BA:940:G:O5'	2.21	0.40
25:BB:16:G:C6	25:BB:69:G:C2	3.09	0.40
24:BA:2209:C:O5'	27:BD:151:LYS:HD2	2.21	0.40
27:BD:147:LEU:CD2	27:BD:154:LYS:HG3	2.49	0.40
27:BD:134:ARG:N	27:BD:168:ARG:HH12	2.18	0.40
27:BD:131:LEU:C	27:BD:190:TYR:CE2	2.94	0.40
27:BD:8:PRO:CG	27:BD:26:LYS:HG3	2.46	0.40
27:BD:276:LYS:HD2	27:BD:276:LYS:OXT	2.21	0.40
27:BD:29:PRO:HB2	27:BD:31:LYS:HD2	2.02	0.40
27:BD:40:THR:CG2	27:BD:43:ARG:NE	2.85	0.40
27:BD:5:LYS:CD	27:BD:31:LYS:NZ	2.84	0.40
28:BE:118:LYS:NZ	28:BE:119:ARG:N	2.69	0.40
28:BE:185:LYS:O	28:BE:185:LYS:HG2	2.19	0.40
29:BF:113:ALA:HB1	29:BF:187:VAL:HG13	2.02	0.40
29:BF:12:LEU:HD22	29:BF:128:ALA:CA	2.52	0.40
30:BG:4:ASP:CA	30:BG:7:LEU:HB2	2.46	0.40
30:BG:90:LEU:C	30:BG:90:LEU:HD13	2.41	0.40
31:BH:152:ARG:O	31:BH:162:ILE:HG22	2.21	0.40
31:BH:31:GLY:C	31:BH:33:LEU:N	2.73	0.40
24:BA:2198:A:N7	32:BK:29:TYR:O	2.55	0.40
33:BL:17:ALA:O	33:BL:18:THR:CB	2.70	0.40
33:BL:71:THR:HB	33:BL:111:LYS:CE	2.51	0.40
34:BM:100:GLU:HB3	34:BM:104:LYS:HE3	2.03	0.40
34:BM:54:VAL:HA	34:BM:130:HIS:HE1	1.86	0.40
34:BM:91:LEU:HD23	34:BM:98:VAL:CG2	2.40	0.40
35:BN:49:ARG:O	35:BN:50:GLY:O	2.40	0.40
24:BA:2684:U:O2'	35:BN:67:LYS:CD	2.69	0.40
36:BO:32:THR:OG1	36:BO:33:ARG:N	2.53	0.40
37:BP:110:THR:O	37:BP:111:GLU:CG	2.70	0.40
37:BP:35:VAL:CG1	37:BP:130:LYS:O	2.66	0.40
3:AB:54:U:OP1	37:BP:60:ARG:HD3	2.21	0.40
37:BP:91:GLU:N	37:BP:93:TYR:OH	2.55	0.40
37:BP:68:ILE:HD13	37:BP:97:VAL:HG13	2.02	0.40
37:BP:40:ALA:O	37:BP:97:VAL:O	2.39	0.40
38:BQ:79:LEU:CD2	38:BQ:80:PHE:HA	2.48	0.40
38:BQ:45:ARG:HB2	38:BQ:97:VAL:CG2	2.51	0.40
39:BR:10:ARG:O	39:BR:11:LYS:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:14:VAL:O	39:BR:18:ILE:CD1	2.69	0.40
39:BR:28:VAL:CG2	39:BR:101:LEU:HG	2.51	0.40
41:BT:61:TRP:O	41:BT:63:VAL:N	2.55	0.40
42:BU:58:VAL:HG12	42:BU:59:ALA:N	2.37	0.40
43:BV:103:ILE:O	43:BV:103:ILE:HG12	2.21	0.40
43:BV:68:ARG:HB2	43:BV:110:LYS:O	2.22	0.40
43:BV:30:GLU:OE2	43:BV:31:GLU:N	2.54	0.40
44:BW:33:LYS:HZ2	44:BW:33:LYS:HB2	1.86	0.40
46:BY:111:VAL:C	46:BY:113:ALA:N	2.72	0.40
46:BY:17:ALA:O	46:BY:18:LEU:C	2.60	0.40
46:BY:43:GLU:O	46:BY:46:LYS:N	2.54	0.40
47:BZ:75:LEU:H	47:BZ:75:LEU:HD12	1.86	0.40
32:BK:125:GLU:CA	32:BK:142:VAL:O	2.70	0.40
3:AD:9:A:N6	3:AD:22:G:N7	2.69	0.40
3:AD:57:G:C8	3:AD:57:G:OP2	2.75	0.40
3:AD:64:A:O2'	3:AD:65:G:H5'	2.21	0.40
26:BC:7:TYR:HE2	26:BC:11:LEU:HD22	1.85	0.40
26:BC:176:GLY:HA3	26:BC:185:LEU:HD22	2.04	0.40
26:BC:20:TYR:O	26:BC:21:THR:HG23	2.21	0.40
26:BC:75:LEU:HD22	26:BC:110:PHE:CE2	2.54	0.40
24:BA:1487:G:C2'	24:BA:1488:G:H5'	2.52	0.40
1:AA:341:C:C2	1:AA:342:C:C5	3.10	0.40
24:BA:1579:A:H2'	24:BA:1580:A:O4'	2.21	0.40
1:AA:491:G:C2'	1:AA:492:G:H5'	2.51	0.40
24:BA:491:G:C6	24:BA:492:A:C6	3.09	0.40
32:BK:47:LEU:O	32:BK:51:ILE:HG13	2.22	0.40
1:AA:77:C:O5'	1:AA:77:C:H6	2.03	0.40
1:AA:1121:U:H6	1:AA:1121:U:O5'	2.04	0.40
1:AA:1532:U:C2	2:A1:33:U:O2	2.75	0.40
2:A1:50:U:O2'	2:A1:51:U:P	2.79	0.40
1:AA:104:G:C2	1:AA:105:G:C8	3.09	0.40
1:AA:1113:C:C5	1:AA:1113:C:OP2	2.75	0.40
1:AA:1125:U:OP2	1:AA:1125:U:H4'	2.20	0.40
1:AA:1226:C:OP2	15:AP:103:THR:CB	2.69	0.40
1:AA:1287:A:H61	1:AA:1371:G:C5'	2.34	0.40
1:AA:1328:C:N4	1:AA:1329:A:N6	2.70	0.40
1:AA:1331:G:O4'	1:AA:1331:G:OP1	2.40	0.40
1:AA:1413:A:O2'	1:AA:1414:U:O5'	2.40	0.40
1:AA:335:C:H4'	1:AA:1434:A:C4'	2.52	0.40
1:AA:1489:G:C2	1:AA:1490:C:C2	3.10	0.40
1:AA:175:C:C2	1:AA:176:C:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:186(B):C:C2	1:AA:186(C):G:H8	2.40	0.40
1:AA:189:U:C2	19:AT:72:ARG:NH2	2.85	0.40
1:AA:273:A:C6	1:AA:274:A:C5	3.10	0.40
1:AA:286:G:C6	1:AA:287:U:C5	3.09	0.40
1:AA:32:A:OP1	1:AA:398:C:H1'	2.20	0.40
1:AA:432:A:N7	1:AA:433:C:C4	2.90	0.40
1:AA:602:A:C6	1:AA:603:U:C4	3.10	0.40
1:AA:609:A:O2'	1:AA:610:G:H5'	2.21	0.40
1:AA:634:C:H2'	1:AA:635:G:H8	1.86	0.40
1:AA:697:U:H3'	1:AA:698:G:H8	1.87	0.40
1:AA:698:G:N2	1:AA:699:C:C2	2.89	0.40
1:AA:803:G:C6	1:AA:804:U:C4	3.10	0.40
1:AA:818:G:O2'	1:AA:819:A:P	2.80	0.40
1:AA:867:G:C2	1:AA:868:C:C5	3.09	0.40
1:AA:87:A:C8	1:AA:88:C:C6	3.09	0.40
1:AA:87:A:N7	1:AA:88:C:C2	2.89	0.40
1:AA:894:G:C6	1:AA:895:G:N7	2.89	0.40
1:AA:89:U:N3	1:AA:90:C:C5	2.90	0.40
1:AA:899:C:N3	1:AA:900:A:C2	2.90	0.40
1:AA:901:A:HO2'	1:AA:902:G:P	2.44	0.40
1:AA:934:C:H5	1:AA:1344:C:C2	2.39	0.40
1:AA:93:U:O2	1:AA:95:G:N7	2.54	0.40
1:AA:970:C:H42	15:AP:126:LYS:HZ1	1.68	0.40
3:AB:55:U:H5''	46:BY:178:GLU:OE2	2.21	0.40
4:AE:11:LEU:N	4:AE:11:LEU:HD23	2.36	0.40
4:AE:68:ILE:HG23	4:AE:161:ALA:O	2.22	0.40
4:AE:165:VAL:CG2	4:AE:166:ASP:H	2.16	0.40
4:AE:219:VAL:O	4:AE:223:ILE:CD1	2.69	0.40
5:AF:48:TYR:O	5:AF:51:GLY:N	2.53	0.40
5:AF:52:LEU:O	5:AF:115:LEU:HD21	2.21	0.40
7:AH:84:PHE:CB	7:AH:134:ALA:HA	2.52	0.40
7:AH:31:LEU:HB2	7:AH:129:ILE:HG23	2.03	0.40
8:AI:29:ALA:O	8:AI:32:ASN:N	2.54	0.40
8:AI:52:ILE:HG21	8:AI:87:ARG:HH12	1.86	0.40
1:AA:1298:C:C6	9:AJ:114:ARG:HD3	2.52	0.40
9:AJ:125:MET:O	9:AJ:127:ALA:N	2.55	0.40
9:AJ:143:ARG:HD2	9:AJ:144:MET:N	2.18	0.40
9:AJ:21:VAL:HG23	9:AJ:22:LEU:HD23	2.03	0.40
9:AJ:27:ILE:CG1	9:AJ:43:PHE:CD1	2.99	0.40
9:AJ:6:ARG:CA	9:AJ:6:ARG:CZ	3.00	0.40
9:AJ:90:GLU:N	9:AJ:90:GLU:OE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:100:ILE:CB	10:AK:125:ARG:HH21	2.33	0.40
10:AK:29:SER:HB3	10:AK:32:LYS:HZ3	1.84	0.40
10:AK:98:LYS:HZ2	10:AK:98:LYS:CA	2.32	0.40
12:AM:4:ILE:HG22	12:AM:4:ILE:O	2.21	0.40
12:AM:27:ALA:HB1	12:AM:74:ILE:CD1	2.52	0.40
13:AN:116:HIS:O	13:AN:117:ASN:CB	2.69	0.40
13:AN:57:THR:O	13:AN:58:PRO:C	2.58	0.40
14:AO:34:ARG:CG	14:AO:105:TYR:CE1	3.05	0.40
1:AA:363:A:C4	14:AO:31:PRO:HD2	2.57	0.40
14:AO:54:LYS:HB3	14:AO:70:ILE:CB	2.38	0.40
1:AA:1228:C:O2'	15:AP:116:THR:HA	2.22	0.40
15:AP:13:LYS:HA	15:AP:44:ARG:HH21	1.87	0.40
15:AP:26:GLY:H	15:AP:29:ARG:HB2	1.86	0.40
15:AP:36:LYS:CD	15:AP:59:TYR:HE1	2.35	0.40
15:AP:70:LEU:O	15:AP:73:GLU:HB3	2.21	0.40
15:AP:77:ASN:HA	15:AP:80:ARG:CG	2.51	0.40
16:AQ:58:LYS:HD2	16:AQ:59:ALA:O	2.21	0.40
17:AR:36:ILE:HD11	17:AR:60:VAL:HA	2.02	0.40
1:AA:760:G:N1	19:AT:105:ALA:OXT	2.40	0.40
20:AU:42:ARG:C	20:AU:43:PHE:CD1	2.95	0.40
20:AU:45:SER:CA	20:AU:51:LEU:HD21	2.52	0.40
20:AU:62:GLU:O	20:AU:64:ARG:N	2.55	0.40
22:AW:24:LEU:O	22:AW:25:ARG:C	2.58	0.40
48:B1:31:ARG:HG2	48:B1:31:ARG:H	1.62	0.40
50:B3:9:LEU:HD22	50:B3:11:PRO:CG	2.52	0.40
24:BA:398:G:OP2	50:B3:59:PHE:HE2	2.04	0.40
51:B4:35:GLU:OE2	51:B4:51:TYR:CZ	2.74	0.40
24:BA:2057:A:H1'	51:B4:4:HIS:O	2.21	0.40
53:B6:43:THR:HA	53:B6:46:VAL:HB	2.03	0.40
54:B7:51:ALA:O	54:B7:53:PRO:HD2	2.22	0.40
54:B7:5:LYS:HD2	54:B7:63:PRO:CG	2.51	0.40
24:BA:1099:G:H2'	24:BA:1099:G:N3	2.36	0.40
24:BA:1048:A:P	24:BA:1109:C:H42	2.45	0.40
24:BA:1131:G:N2	34:BM:72:TYR:CZ	2.89	0.40
24:BA:1169:G:C5	24:BA:1170:G:C8	3.10	0.40
24:BA:1274:A:O2'	24:BA:1275:A:H5'	2.21	0.40
24:BA:1438:U:H3	24:BA:1553:A:H62	1.60	0.40
24:BA:1471:A:O2'	24:BA:1472:A:H5'	2.20	0.40
24:BA:1641:A:N6	24:BA:1642:G:C2	2.89	0.40
24:BA:1666:G:N7	24:BA:1667:G:C8	2.90	0.40
24:BA:1668:A:N7	24:BA:1674:G:N3	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:702:A:N6	24:BA:1848:A:C2	2.89	0.40
24:BA:1859:A:C2	24:BA:1884:A:O2'	2.69	0.40
24:BA:1902:C:H2'	24:BA:1903:G:O4'	2.22	0.40
24:BA:1923:U:H2'	24:BA:1924:C:C5	2.57	0.40
24:BA:1949:G:C2	24:BA:1958:C:N3	2.90	0.40
24:BA:1964:G:OP1	24:BA:1964:G:H8	2.02	0.40
24:BA:1996:C:O2	24:BA:1997:G:C4'	2.65	0.40
24:BA:2051:A:C6	24:BA:2614:A:N7	2.89	0.40
24:BA:2287:A:H2	24:BA:2346:A:H61	1.69	0.40
24:BA:231:C:N4	24:BA:232:G:H22	2.09	0.40
24:BA:234:C:O2'	24:BA:235:U:H5'	2.21	0.40
24:BA:2358:G:N2	24:BA:2359:C:O4'	2.54	0.40
24:BA:2371:G:N2	24:BA:2372:G:N1	2.70	0.40
24:BA:2440:C:C2'	24:BA:2441:C:O5'	2.67	0.40
24:BA:2468:G:C6	24:BA:2481:G:C4	3.10	0.40
24:BA:2485:G:HO2'	24:BA:2486:G:H5'	1.85	0.40
24:BA:2458:G:C5	24:BA:2490:G:C2	3.10	0.40
24:BA:2578:G:O2'	24:BA:2579:C:P	2.79	0.40
24:BA:2600:A:C2	24:BA:2601:C:C4	3.10	0.40
24:BA:2644:G:C6	24:BA:2645:G:N2	2.89	0.40
24:BA:270(Z):U:O4	24:BA:271(C):U:N1	2.54	0.40
24:BA:2737:G:C4	24:BA:2738:A:C8	3.09	0.40
24:BA:2792:G:C2	24:BA:2793:G:N7	2.89	0.40
24:BA:2848:G:N2	24:BA:2849:U:N3	2.55	0.40
24:BA:1750:G:O2'	24:BA:2860:A:C2	2.67	0.40
24:BA:2864:G:C4	24:BA:2865:U:C4	3.10	0.40
24:BA:287:C:C2'	24:BA:287:C:O2	2.65	0.40
24:BA:412:A:C6	24:BA:413:C:C2	3.09	0.40
24:BA:508:G:O2'	24:BA:509:C:C5'	2.61	0.40
24:BA:570:G:H22	24:BA:2498:C:C2'	2.35	0.40
24:BA:624:C:C4'	24:BA:624:C:H6	2.34	0.40
24:BA:631:A:H1'	24:BA:2416:C:H5'	2.03	0.40
24:BA:66:C:C4	24:BA:67:U:C4	3.10	0.40
24:BA:769:G:C4	24:BA:770:G:C8	3.10	0.40
24:BA:771:G:N2	24:BA:772:C:C2	2.89	0.40
24:BA:778:G:N2	24:BA:787:U:N1	2.69	0.40
24:BA:677:A:N6	24:BA:802:A:N7	2.70	0.40
25:BB:4:C:C5	25:BB:5:C:C5	3.09	0.40
27:BD:21:PHE:C	27:BD:205:VAL:HG13	2.41	0.40
27:BD:208:LYS:HB3	27:BD:211:ARG:HG3	2.02	0.40
27:BD:217:ARG:HG3	27:BD:218:ARG:N	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BD:245:PRO:O	27:BD:252:TRP:CH2	2.74	0.40
27:BD:257:LEU:O	27:BD:258:LYS:O	2.40	0.40
24:BA:1675:C:C4	28:BE:128:SER:CB	3.02	0.40
28:BE:148:GLY:C	28:BE:149:ARG:CG	2.90	0.40
29:BF:75:HIS:CE1	29:BF:77:ASP:O	2.75	0.40
30:BG:115:ARG:C	30:BG:117:PHE:H	2.25	0.40
30:BG:165:THR:HG22	30:BG:166:ASP:N	2.37	0.40
30:BG:49:ASP:H	30:BG:53:LEU:CD1	2.34	0.40
31:BH:102:ALA:HA	31:BH:115:VAL:C	2.42	0.40
31:BH:35:VAL:HB	31:BH:72:ILE:HG23	2.02	0.40
31:BH:7:LEU:CG	31:BH:65:HIS:NE2	2.85	0.40
31:BH:7:LEU:HB3	31:BH:65:HIS:CE1	2.56	0.40
33:BL:87:GLY:HA2	33:BL:134:MET:SD	2.62	0.40
33:BL:78:ILE:HD11	33:BL:127:ILE:HA	2.02	0.40
34:BM:126:PRO:HG2	34:BM:128:HIS:ND1	2.36	0.40
34:BM:7:LYS:CE	34:BM:39:ARG:HH22	2.31	0.40
35:BN:24:VAL:H	35:BN:30:ALA:HB1	1.85	0.40
37:BP:135:ASP:O	37:BP:136:ALA:HB2	2.22	0.40
38:BQ:28:LEU:C	38:BQ:30:THR:N	2.75	0.40
39:BR:105:ALA:O	39:BR:108:GLY:CA	2.70	0.40
39:BR:3:ARG:N	39:BR:3:ARG:CD	2.85	0.40
39:BR:65:VAL:HG22	39:BR:66:ALA:H	1.86	0.40
39:BR:81:GLY:C	39:BR:82:ILE:HG12	2.40	0.40
41:BT:108:GLU:HA	41:BT:111:GLU:HG2	2.02	0.40
41:BT:44:ASN:HA	41:BT:47:TYR:CG	2.56	0.40
41:BT:55:ARG:HA	41:BT:58:ARG:CB	2.51	0.40
41:BT:74:LEU:HB3	41:BT:78:THR:HB	1.99	0.40
42:BU:22:VAL:HG13	42:BU:23:GLU:H	1.87	0.40
41:BT:47:TYR:HE2	42:BU:75:PHE:C	2.25	0.40
44:BW:15:GLU:O	44:BW:18:TYR:CB	2.69	0.40
44:BW:58:HIS:NE2	44:BW:77:LYS:CE	2.85	0.40
44:BW:65:ARG:HA	44:BW:70:LEU:HG	2.04	0.40
46:BY:110:GLY:CA	46:BY:144:LEU:CB	2.95	0.40
46:BY:6:LYS:HA	46:BY:37:VAL:HA	2.04	0.40
47:BZ:19:LYS:O	47:BZ:20:ARG:CD	2.62	0.40
24:BA:2356:C:OP1	47:BZ:24:LYS:HD3	2.22	0.40
32:BK:122:GLU:O	32:BK:123:LEU:CB	2.69	0.40
32:BK:58:LEU:CA	32:BK:61:ARG:HG2	2.50	0.40
24:BA:2157:G:O2'	24:BA:2158:A:P	2.79	0.40
26:BC:97:GLU:CB	26:BC:100:ILE:HD12	2.51	0.40
26:BC:86:ALA:CB	26:BC:149:ILE:HG23	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BC:160:ARG:C	26:BC:161:ILE:HG23	2.42	0.40
26:BC:52:ARG:HG3	26:BC:53:ARG:N	2.37	0.40
26:BC:68:LEU:CG	26:BC:69:GLY:H	2.35	0.40
1:AA:160:A:N1	1:AA:346:G:O6	2.55	0.40
24:BA:441:U:H6	24:BA:441:U:O5'	2.05	0.40
24:BA:2189:U:H2'	24:BA:2190:G:H8	1.86	0.40
24:BA:54:G:N2	24:BA:55:G:C4	2.89	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:0:A:OP1	25:BB:0:A:OP1[15_545]	2.18	0.02

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AE	232/256 (91%)	114 (49%)	42 (18%)	76 (33%)	0	0
5	AF	204/239 (85%)	107 (52%)	46 (22%)	51 (25%)	0	2
6	AG	206/209 (99%)	96 (47%)	57 (28%)	53 (26%)	0	1
7	AH	148/162 (91%)	93 (63%)	38 (26%)	17 (12%)	0	9
8	AI	99/101 (98%)	58 (59%)	19 (19%)	22 (22%)	0	2
9	AJ	153/156 (98%)	73 (48%)	45 (29%)	35 (23%)	0	2
10	AK	136/138 (99%)	68 (50%)	35 (26%)	33 (24%)	0	2
11	AL	125/128 (98%)	62 (50%)	33 (26%)	30 (24%)	0	2
12	AM	96/105 (91%)	52 (54%)	20 (21%)	24 (25%)	0	2
13	AN	117/129 (91%)	65 (56%)	29 (25%)	23 (20%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	AO	122/132 (92%)	50 (41%)	30 (25%)	42 (34%)	0	0
15	AP	123/126 (98%)	56 (46%)	34 (28%)	33 (27%)	0	1
16	AQ	58/61 (95%)	24 (41%)	16 (28%)	18 (31%)	0	0
17	AR	86/89 (97%)	36 (42%)	35 (41%)	15 (17%)	0	4
18	AS	81/88 (92%)	42 (52%)	24 (30%)	15 (18%)	0	3
19	AT	102/105 (97%)	62 (61%)	23 (22%)	17 (17%)	0	5
20	AU	71/88 (81%)	26 (37%)	26 (37%)	19 (27%)	0	1
21	AV	78/93 (84%)	32 (41%)	23 (30%)	23 (30%)	0	0
22	AW	97/106 (92%)	38 (39%)	32 (33%)	27 (28%)	0	0
23	AX	22/27 (82%)	9 (41%)	6 (27%)	7 (32%)	0	0
26	BC	226/229 (99%)	155 (69%)	41 (18%)	30 (13%)	0	7
27	BD	270/276 (98%)	125 (46%)	59 (22%)	86 (32%)	0	0
28	BE	204/206 (99%)	117 (57%)	31 (15%)	56 (28%)	0	0
29	BF	206/210 (98%)	109 (53%)	46 (22%)	51 (25%)	0	2
30	BG	180/182 (99%)	79 (44%)	47 (26%)	54 (30%)	0	0
31	BH	172/180 (96%)	80 (46%)	46 (27%)	46 (27%)	0	1
32	BK	146/148 (99%)	91 (62%)	30 (20%)	25 (17%)	0	4
33	BL	136/147 (92%)	69 (51%)	38 (28%)	29 (21%)	0	3
34	BM	137/140 (98%)	64 (47%)	28 (20%)	45 (33%)	0	0
35	BN	120/122 (98%)	59 (49%)	23 (19%)	38 (32%)	0	0
36	BO	143/150 (95%)	57 (40%)	36 (25%)	50 (35%)	0	0
37	BP	134/141 (95%)	49 (37%)	33 (25%)	52 (39%)	0	0
38	BQ	115/118 (98%)	57 (50%)	39 (34%)	19 (16%)	0	5
39	BR	108/112 (96%)	48 (44%)	29 (27%)	31 (29%)	0	0
40	BS	115/146 (79%)	52 (45%)	26 (23%)	37 (32%)	0	0
41	BT	115/118 (98%)	35 (30%)	50 (44%)	30 (26%)	0	1
42	BU	99/101 (98%)	52 (52%)	19 (19%)	28 (28%)	0	0
43	BV	108/113 (96%)	63 (58%)	24 (22%)	21 (19%)	0	3
44	BW	92/96 (96%)	57 (62%)	16 (17%)	19 (21%)	0	3
45	BX	108/110 (98%)	43 (40%)	32 (30%)	33 (31%)	0	0
46	BY	178/206 (86%)	95 (53%)	44 (25%)	39 (22%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	BZ	83/85 (98%)	52 (63%)	21 (25%)	10 (12%)	0	8
48	B1	65/67 (97%)	36 (55%)	20 (31%)	9 (14%)	0	6
49	B2	57/60 (95%)	34 (60%)	8 (14%)	15 (26%)	0	1
50	B3	69/71 (97%)	23 (33%)	16 (23%)	30 (44%)	0	0
51	B4	55/60 (92%)	14 (26%)	19 (34%)	22 (40%)	0	0
52	B5	47/54 (87%)	14 (30%)	7 (15%)	26 (55%)	0	0
53	B6	47/49 (96%)	20 (43%)	12 (26%)	15 (32%)	0	0
54	B7	62/65 (95%)	23 (37%)	18 (29%)	21 (34%)	0	0
55	B8	35/37 (95%)	20 (57%)	5 (14%)	10 (29%)	0	0
All	All	5988/6337 (94%)	2955 (49%)	1476 (25%)	1557 (26%)	0	1

All (1557) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	AE	8	LYS
4	AE	11	LEU
4	AE	13	ALA
4	AE	15	VAL
4	AE	16	HIS
4	AE	17	PHE
4	AE	22	LYS
4	AE	26	PRO
4	AE	37	ASN
4	AE	42	ILE
4	AE	44	LEU
4	AE	45	GLN
4	AE	76	GLN
4	AE	77	ALA
4	AE	78	GLN
4	AE	97	TRP
4	AE	104	ASN
4	AE	109	SER
4	AE	122	PHE
4	AE	124	SER
4	AE	127	ILE
4	AE	131	PRO
4	AE	147	LYS
4	AE	153	ARG
4	AE	154	LEU

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Mol	Chain	Res	Type
4	AE	155	LEU
4	AE	161	ALA
4	AE	165	VAL
4	AE	168	THR
4	AE	169	LYS
4	AE	171	ALA
4	AE	172	ILE
4	AE	181	PHE
4	AE	191	ASP
4	AE	194	PRO
4	AE	195	ASP
4	AE	200	ILE
4	AE	201	ILE
4	AE	204	ASN
4	AE	207	ALA
4	AE	211	ILE
4	AE	226	ARG
4	AE	230	VAL
4	AE	232	PRO
4	AE	236	TYR
5	AF	4	LYS
5	AF	12	LEU
5	AF	14	ILE
5	AF	18	TRP
5	AF	24	ALA
5	AF	28	GLN
5	AF	39	ILE
5	AF	43	LEU
5	AF	52	LEU
5	AF	53	ALA
5	AF	64	VAL
5	AF	65	ALA
5	AF	79	ARG
5	AF	83	ARG
5	AF	84	ILE
5	AF	95	THR
5	AF	97	LYS
5	AF	98	ASN
5	AF	119	ARG
5	AF	129	ALA
5	AF	157	ILE
5	AF	160	ALA

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Mol	Chain	Res	Type
5	AF	176	HIS
5	AF	177	THR
5	AF	179	ARG
5	AF	191	THR
5	AF	192	THR
6	AG	3	ARG
6	AG	17	VAL
6	AG	18	LYS
6	AG	21	LEU
6	AG	29	PRO
6	AG	30	LYS
6	AG	31	CYS
6	AG	48	ALA
6	AG	56	VAL
6	AG	71	SER
6	AG	86	LYS
6	AG	88	VAL
6	AG	99	SER
6	AG	109	GLY
6	AG	131	ARG
6	AG	142	PRO
6	AG	148	VAL
6	AG	150	GLU
6	AG	151	LYS
6	AG	154	ASN
6	AG	166	LYS
6	AG	168	ARG
6	AG	170	VAL
6	AG	179	GLU
6	AG	191	ARG
6	AG	195	ALA
6	AG	198	VAL
6	AG	199	ASN
7	AH	12	LEU
7	AH	55	VAL
7	AH	75	THR
7	AH	128	PRO
7	AH	144	THR
8	AI	11	ASN
8	AI	16	GLN
8	AI	27	GLN
8	AI	72	VAL

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Mol	Chain	Res	Type
8	AI	81	ILE
8	AI	82	ARG
8	AI	84	ASN
8	AI	85	VAL
8	AI	95	GLU
8	AI	97	PHE
9	AJ	4	ARG
9	AJ	8	GLU
9	AJ	14	PRO
9	AJ	17	VAL
9	AJ	31	MET
9	AJ	35	LYS
9	AJ	37	ASN
9	AJ	71	PRO
9	AJ	91	VAL
9	AJ	111	ARG
9	AJ	134	ALA
9	AJ	142	GLU
10	AK	6	ILE
10	AK	13	ILE
10	AK	29	SER
10	AK	30	ARG
10	AK	63	LEU
10	AK	74	PRO
10	AK	75	ARG
10	AK	76	PRO
10	AK	77	GLU
10	AK	79	VAL
10	AK	103	VAL
10	AK	105	ARG
10	AK	115	SER
10	AK	121	ASP
10	AK	129	VAL
11	AL	29	ASN
11	AL	33	PHE
11	AL	44	VAL
11	AL	70	LYS
11	AL	98	PRO
11	AL	109	VAL
11	AL	116	LYS
11	AL	118	LYS
12	AM	34	VAL

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Mol	Chain	Res	Type
12	AM	36	GLY
12	AM	39	PRO
12	AM	40	LEU
12	AM	55	LYS
12	AM	56	HIS
12	AM	60	ARG
12	AM	72	VAL
12	AM	79	ARG
12	AM	80	LYS
12	AM	90	LEU
13	AN	14	VAL
13	AN	15	ALA
13	AN	27	ASN
13	AN	39	PRO
13	AN	74	ALA
13	AN	78	GLN
13	AN	106	LYS
13	AN	113	PRO
13	AN	116	HIS
14	AO	6	THR
14	AO	7	ILE
14	AO	18	VAL
14	AO	19	ARG
14	AO	22	SER
14	AO	28	LYS
14	AO	30	ALA
14	AO	46	LYS
14	AO	48	PRO
14	AO	51	ALA
14	AO	62	SER
14	AO	66	VAL
14	AO	83	VAL
14	AO	92	ASP
14	AO	101	VAL
14	AO	110	VAL
14	AO	116	SER
14	AO	127	GLU
15	AP	11	ARG
15	AP	12	ASN
15	AP	14	ARG
15	AP	59	TYR
15	AP	84	ILE

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Mol	Chain	Res	Type
15	AP	101	GLN
15	AP	107	ALA
15	AP	121	LYS
15	AP	124	PRO
16	AQ	12	ARG
16	AQ	18	VAL
16	AQ	29	ARG
16	AQ	31	ARG
16	AQ	34	TYR
16	AQ	36	PHE
16	AQ	44	LEU
16	AQ	54	PRO
16	AQ	55	GLY
17	AR	3	ILE
17	AR	16	ALA
18	AS	11	SER
18	AS	15	PRO
18	AS	24	ALA
18	AS	27	LYS
18	AS	61	SER
19	AT	3	LYS
19	AT	4	LYS
19	AT	15	MET
19	AT	34	LYS
19	AT	48	GLU
19	AT	50	LYS
19	AT	81	ARG
19	AT	104	LYS
20	AU	42	ARG
20	AU	49	LYS
20	AU	52	PRO
20	AU	59	SER
20	AU	75	ILE
20	AU	79	LEU
20	AU	82	THR
20	AU	87	ARG
21	AV	3	ARG
21	AV	6	LYS
21	AV	12	ASP
21	AV	21	GLU
21	AV	28	LYS
21	AV	32	LYS

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Mol	Chain	Res	Type
21	AV	40	ILE
21	AV	42	PRO
21	AV	43	GLU
21	AV	64	GLU
21	AV	70	LYS
21	AV	79	THR
22	AW	12	ALA
22	AW	99	LEU
22	AW	105	SER
23	AX	6	ARG
23	AX	9	ARG
26	BC	35	ALA
26	BC	39	GLU
26	BC	54	SER
26	BC	61	THR
26	BC	66	HIS
26	BC	72	VAL
26	BC	217	THR
27	BD	6	PHE
27	BD	10	THR
27	BD	17	THR
27	BD	18	VAL
27	BD	30	GLU
27	BD	33	LEU
27	BD	35	LYS
27	BD	44	ASN
27	BD	53	PHE
27	BD	54	ARG
27	BD	58	HIS
27	BD	70	TRP
27	BD	72	LYS
27	BD	73	VAL
27	BD	81	ALA
27	BD	91	ARG
27	BD	106	ILE
27	BD	107	ALA
27	BD	108	PRO
27	BD	118	VAL
27	BD	121	PRO
27	BD	122	ASP
27	BD	125	ILE
27	BD	133	LEU

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Mol	Chain	Res	Type
27	BD	134	ARG
27	BD	145	VAL
27	BD	153	ALA
27	BD	155	LEU
27	BD	157	ARG
27	BD	158	ALA
27	BD	160	GLY
27	BD	167	GLY
27	BD	178	PRO
27	BD	179	SER
27	BD	219	PRO
27	BD	224	ALA
27	BD	225	ALA
27	BD	232	PRO
27	BD	239	ARG
27	BD	241	PRO
27	BD	244	ARG
27	BD	247	ALA
27	BD	249	PRO
27	BD	252	TRP
27	BD	258	LYS
27	BD	264	LYS
27	BD	268	ARG
27	BD	270	ILE
27	BD	271	ILE
28	BE	16	ARG
28	BE	38	THR
28	BE	42	ASP
28	BE	54	GLN
28	BE	68	ALA
28	BE	70	ALA
28	BE	74	PRO
28	BE	92	THR
28	BE	111	ARG
28	BE	117	MET
28	BE	122	PHE
28	BE	128	SER
28	BE	133	LYS
28	BE	134	ILE
28	BE	145	LYS
28	BE	149	ARG
28	BE	151	TYR

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Mol	Chain	Res	Type
28	BE	157	ALA
28	BE	168	MET
28	BE	173	VAL
28	BE	180	ASN
28	BE	191	PRO
28	BE	202	LYS
29	BF	13	SER
29	BF	14	PRO
29	BF	30	PRO
29	BF	45	ARG
29	BF	52	LYS
29	BF	53	THR
29	BF	57	VAL
29	BF	58	ALA
29	BF	62	ARG
29	BF	67	GLN
29	BF	68	LYS
29	BF	69	HIS
29	BF	75	HIS
29	BF	82	ILE
29	BF	84	VAL
29	BF	85	GLY
29	BF	89	VAL
29	BF	91	GLY
29	BF	99	TYR
29	BF	100	THR
29	BF	104	LYS
29	BF	132	VAL
29	BF	151	SER
29	BF	169	ASN
29	BF	172	TRP
29	BF	186	ILE
29	BF	196	LEU
30	BG	16	ARG
30	BG	18	GLU
30	BG	27	ASN
30	BG	32	PRO
30	BG	36	LYS
30	BG	42	GLY
30	BG	43	LEU
30	BG	51	ARG
30	BG	66	GLN

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Mol	Chain	Res	Type
30	BG	68	PRO
30	BG	73	ALA
30	BG	76	SER
30	BG	78	SER
30	BG	86	MET
30	BG	104	GLU
30	BG	111	LEU
30	BG	114	ILE
30	BG	115	ARG
30	BG	116	ASP
30	BG	117	PHE
30	BG	123	ASN
30	BG	124	SER
30	BG	128	ARG
30	BG	131	TYR
30	BG	132	ASN
30	BG	133	LEU
30	BG	138	GLN
30	BG	140	ILE
30	BG	143	GLU
30	BG	144	ILE
30	BG	148	MET
30	BG	164	GLU
30	BG	172	LEU
30	BG	181	ARG
31	BH	6	ARG
31	BH	7	LEU
31	BH	12	PRO
31	BH	15	VAL
31	BH	20	ALA
31	BH	30	LYS
31	BH	56	SER
31	BH	99	VAL
31	BH	104	GLU
31	BH	107	VAL
31	BH	111	HIS
31	BH	127	GLU
31	BH	136	ILE
31	BH	152	ARG
31	BH	153	LYS
31	BH	155	SER
31	BH	157	TYR

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Mol	Chain	Res	Type
31	BH	160	LYS
31	BH	164	TYR
31	BH	168	PRO
32	BK	10	GLU
32	BK	14	ASP
32	BK	15	VAL
32	BK	22	LYS
32	BK	23	PRO
32	BK	25	TYR
32	BK	27	ARG
32	BK	33	ARG
32	BK	39	ALA
32	BK	74	ASN
32	BK	91	SER
32	BK	102	SER
32	BK	112	LYS
32	BK	134	PRO
33	BL	17	ALA
33	BL	18	THR
33	BL	34	ILE
33	BL	50	ASP
33	BL	66	THR
33	BL	67	PHE
33	BL	71	THR
33	BL	73	PRO
33	BL	112	MET
33	BL	118	THR
34	BM	3	THR
34	BM	4	TYR
34	BM	7	LYS
34	BM	9	VAL
34	BM	23	LEU
34	BM	31	ALA
34	BM	35	ARG
34	BM	43	THR
34	BM	46	VAL
34	BM	48	MET
34	BM	50	ASP
34	BM	58	ASP
34	BM	59	LYS
34	BM	66	LYS
34	BM	68	GLU

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Mol	Chain	Res	Type
34	BM	76	SER
34	BM	79	PRO
34	BM	83	LYS
34	BM	127	ASP
34	BM	135	PRO
34	BM	136	GLU
35	BN	4	PRO
35	BN	11	ALA
35	BN	14	THR
35	BN	17	ARG
35	BN	26	LYS
35	BN	28	SER
35	BN	29	ASN
35	BN	30	ALA
35	BN	46	ALA
35	BN	53	LYS
35	BN	63	VAL
35	BN	64	ARG
35	BN	66	LYS
35	BN	89	ASN
35	BN	93	PRO
35	BN	97	ARG
35	BN	101	PRO
35	BN	103	ALA
35	BN	105	GLU
35	BN	110	GLY
35	BN	111	PHE
35	BN	119	PRO
36	BO	8	PRO
36	BO	12	ALA
36	BO	14	LYS
36	BO	27	HIS
36	BO	29	LYS
36	BO	42	SER
36	BO	44	GLY
36	BO	47	ASP
36	BO	55	ARG
36	BO	56	SER
36	BO	57	THR
36	BO	58	THR
36	BO	64	LYS
36	BO	72	PRO

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Mol	Chain	Res	Type
36	BO	88	LEU
36	BO	96	THR
36	BO	102	ARG
36	BO	106	LEU
36	BO	107	LYS
36	BO	122	PRO
36	BO	127	ALA
37	BP	11	LYS
37	BP	21	THR
37	BP	27	VAL
37	BP	29	PHE
37	BP	39	PRO
37	BP	40	ALA
37	BP	58	PHE
37	BP	59	ARG
37	BP	66	ILE
37	BP	67	ARG
37	BP	68	ILE
37	BP	71	ASP
37	BP	77	LYS
37	BP	78	PRO
37	BP	80	GLU
37	BP	81	VAL
37	BP	111	GLU
37	BP	124	LYS
37	BP	125	LEU
37	BP	126	PRO
37	BP	132	VAL
37	BP	138	ASP
38	BQ	4	LEU
38	BQ	38	VAL
38	BQ	57	ARG
38	BQ	72	ASP
38	BQ	76	VAL
38	BQ	88	ARG
38	BQ	89	ASP
39	BR	5	THR
39	BR	14	VAL
39	BR	28	VAL
39	BR	29	PHE
39	BR	31	SER
39	BR	32	LEU

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Mol	Chain	Res	Type
39	BR	35	ILE
39	BR	36	TYR
39	BR	48	LEU
39	BR	51	ALA
39	BR	54	LEU
39	BR	58	LEU
39	BR	61	ASN
40	BS	2	ASN
40	BS	3	ARG
40	BS	5	ALA
40	BS	19	LEU
40	BS	20	PRO
40	BS	22	PHE
40	BS	25	GLY
40	BS	27	THR
40	BS	39	ARG
40	BS	45	PHE
40	BS	58	ASN
40	BS	83	ILE
40	BS	98	LYS
40	BS	100	TYR
40	BS	103	ARG
40	BS	105	LEU
40	BS	106	SER
40	BS	109	GLU
41	BT	3	ARG
41	BT	4	ALA
41	BT	8	VAL
41	BT	22	LYS
41	BT	31	SER
41	BT	32	PHE
41	BT	33	ARG
41	BT	62	ILE
41	BT	75	ASN
41	BT	94	ASN
42	BU	10	LYS
42	BU	11	GLN
42	BU	13	ARG
42	BU	15	GLU
42	BU	19	LYS
42	BU	22	VAL
42	BU	31	ALA

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Mol	Chain	Res	Type
42	BU	32	THR
42	BU	39	LEU
42	BU	40	LEU
42	BU	46	VAL
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	12	ILE
43	BV	14	PRO
43	BV	25	ARG
43	BV	27	LYS
43	BV	41	LYS
43	BV	44	ALA
43	BV	58	ALA
43	BV	64	MET
43	BV	65	LEU
43	BV	73	ALA
43	BV	92	ARG
44	BW	4	ALA
44	BW	6	ASP
44	BW	63	LYS
44	BW	73	ARG
44	BW	89	ILE
44	BW	90	GLU
44	BW	95	LEU
45	BX	10	GLY
45	BX	15	VAL
45	BX	31	LEU
45	BX	40	GLU
45	BX	42	VAL
45	BX	45	VAL
45	BX	46	LYS
45	BX	47	LYS
45	BX	57	GLN
45	BX	58	GLY
45	BX	65	ALA

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Mol	Chain	Res	Type
45	BX	71	LYS
45	BX	72	VAL
45	BX	77	PRO
45	BX	82	PRO
45	BX	108	THR
46	BY	41	LEU
46	BY	42	VAL
46	BY	57	ILE
46	BY	62	PRO
46	BY	78	LYS
46	BY	79	ARG
46	BY	83	PRO
46	BY	93	ASP
46	BY	94	GLU
46	BY	108	PRO
46	BY	109	ALA
46	BY	146	ILE
46	BY	155	LEU
46	BY	159	PRO
46	BY	161	VAL
46	BY	162	GLU
46	BY	165	VAL
47	BZ	2	ALA
47	BZ	29	GLN
47	BZ	55	ARG
47	BZ	84	LEU
48	B1	12	SER
48	B1	13	PRO
48	B1	15	GLU
48	B1	34	ALA
48	B1	35	SER
48	B1	42	ASN
49	B2	9	VAL
49	B2	11	SER
49	B2	13	ILE
49	B2	28	LEU
49	B2	29	ARG
49	B2	30	ARG
49	B2	31	LEU
49	B2	52	HIS
50	B3	6	HIS
50	B3	8	LYS

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Mol	Chain	Res	Type
50	B3	11	PRO
50	B3	13	ARG
50	B3	14	ILE
50	B3	18	CYS
50	B3	32	TYR
50	B3	33	VAL
50	B3	39	CYS
50	B3	53	GLU
50	B3	55	ARG
51	B4	7	PRO
51	B4	10	LYS
51	B4	11	THR
51	B4	18	ALA
51	B4	23	HIS
51	B4	36	CYS
51	B4	38	ALA
51	B4	42	PRO
52	B5	8	LYS
52	B5	17	LYS
52	B5	20	ASN
52	B5	23	THR
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	46	HIS
52	B5	49	HIS
52	B5	50	ARG
52	B5	51	GLU
52	B5	53	LYS
53	B6	2	LYS
53	B6	10	ARG
53	B6	41	ARG
53	B6	47	ARG
54	B7	5	LYS
54	B7	27	THR
54	B7	30	ARG
54	B7	36	LYS
54	B7	37	SER

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Mol	Chain	Res	Type
54	B7	39	LYS
54	B7	62	LEU
54	B7	63	PRO
55	B8	5	ALA
55	B8	9	ARG
55	B8	10	ILE
55	B8	11	CYS
4	AE	9	GLU
4	AE	29	ALA
4	AE	73	THR
4	AE	102	LEU
4	AE	151	GLY
4	AE	178	ARG
4	AE	190	THR
4	AE	227	GLY
5	AF	27	LYS
5	AF	30	ARG
5	AF	66	VAL
5	AF	74	GLY
5	AF	101	LEU
5	AF	158	GLY
5	AF	206	GLU
6	AG	4	TYR
6	AG	67	ILE
6	AG	73	ARG
6	AG	101	LEU
6	AG	107	ARG
6	AG	138	TYR
6	AG	139	ARG
6	AG	165	MET
6	AG	181	MET
6	AG	200	GLU
6	AG	208	SER
7	AH	37	ARG
7	AH	98	THR
7	AH	102	ALA
7	AH	104	ALA
8	AI	13	ASN
8	AI	14	LEU
8	AI	51	PRO
8	AI	83	ASP
9	AJ	23	VAL

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Mol	Chain	Res	Type
9	AJ	56	GLN
9	AJ	72	ARG
9	AJ	92	SER
9	AJ	94	ARG
9	AJ	112	PRO
9	AJ	113	GLU
9	AJ	146	GLU
9	AJ	153	HIS
10	AK	37	ARG
10	AK	78	GLN
10	AK	97	VAL
10	AK	102	ARG
10	AK	108	GLY
10	AK	123	GLU
10	AK	134	ILE
11	AL	39	GLY
11	AL	68	GLY
11	AL	71	SER
11	AL	94	ALA
11	AL	104	ARG
11	AL	114	TYR
11	AL	120	ARG
11	AL	125	TYR
12	AM	31	GLY
12	AM	58	ASP
12	AM	61	GLU
12	AM	78	ASN
12	AM	94	VAL
13	AN	13	GLN
13	AN	55	LYS
13	AN	76	GLY
13	AN	102	GLY
13	AN	104	GLN
13	AN	115	PRO
14	AO	31	PRO
14	AO	41	ARG
14	AO	42	THR
14	AO	76	ASN
14	AO	87	GLY
14	AO	94	PRO
14	AO	126	LYS
15	AP	8	GLU

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Mol	Chain	Res	Type
15	AP	43	THR
15	AP	46	LYS
15	AP	67	GLU
15	AP	117	VAL
15	AP	122	LYS
15	AP	123	ALA
16	AQ	5	ALA
16	AQ	9	LYS
16	AQ	17	LYS
16	AQ	22	THR
16	AQ	28	GLY
16	AQ	56	VAL
17	AR	6	GLU
17	AR	46	HIS
17	AR	76	GLU
17	AR	83	GLU
17	AR	87	ILE
18	AS	30	GLY
18	AS	43	LYS
18	AS	82	GLN
19	AT	16	GLN
19	AT	33	GLY
19	AT	96	GLN
19	AT	98	LEU
20	AU	28	GLU
20	AU	34	TYR
20	AU	37	VAL
20	AU	38	GLU
20	AU	54	ARG
20	AU	64	ARG
21	AV	20	LEU
21	AV	36	ARG
21	AV	65	ASN
21	AV	71	LEU
22	AW	49	ALA
22	AW	56	MET
22	AW	68	LYS
22	AW	101	GLY
22	AW	102	GLY
22	AW	103	GLY
23	AX	7	ARG
26	BC	22	ILE

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Mol	Chain	Res	Type
26	BC	67	GLY
26	BC	80	GLY
26	BC	132	GLY
26	BC	140	PRO
26	BC	161	ILE
26	BC	164	ARG
27	BD	52	ARG
27	BD	62	TYR
27	BD	110	GLY
27	BD	111	LEU
27	BD	123	ALA
27	BD	149	PRO
27	BD	152	GLY
27	BD	189	CYS
27	BD	196	VAL
27	BD	204	ILE
27	BD	207	GLY
27	BD	217	ARG
27	BD	243	GLY
27	BD	262	ARG
27	BD	263	ARG
27	BD	266	SER
28	BE	22	PRO
28	BE	44	TYR
28	BE	72	VAL
28	BE	93	VAL
28	BE	95	ILE
28	BE	115	GLY
28	BE	118	LYS
28	BE	121	ASN
28	BE	124	GLY
28	BE	139	GLY
28	BE	155	LYS
28	BE	178	GLU
28	BE	187	ALA
29	BF	54	ARG
29	BF	81	PRO
29	BF	98	SER
29	BF	102	PRO
29	BF	126	VAL
29	BF	136	THR
29	BF	158	THR

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Mol	Chain	Res	Type
29	BF	167	ALA
29	BF	177	ALA
29	BF	184	TYR
29	BF	190	GLU
30	BG	20	ILE
30	BG	24	GLY
30	BG	61	ALA
30	BG	88	ILE
30	BG	151	ALA
30	BG	154	GLY
30	BG	163	ALA
31	BH	31	GLY
31	BH	33	LEU
31	BH	42	ARG
31	BH	57	ASP
31	BH	105	LEU
31	BH	110	SER
31	BH	118	PRO
31	BH	120	GLY
31	BH	151	ILE
31	BH	156	ALA
31	BH	169	VAL
32	BK	11	ASN
32	BK	86	THR
32	BK	114	LEU
32	BK	123	LEU
33	BL	7	VAL
33	BL	20	ALA
33	BL	52	ILE
33	BL	61	ALA
33	BL	74	ALA
33	BL	89	HIS
33	BL	113	PRO
34	BM	19	GLU
34	BM	30	ILE
34	BM	34	LEU
34	BM	38	HIS
34	BM	40	PRO
34	BM	47	ALA
34	BM	63	THR
34	BM	67	LEU
34	BM	88	GLU

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Mol	Chain	Res	Type
34	BM	92	ALA
34	BM	105	GLY
34	BM	110	GLY
34	BM	114	ARG
35	BN	49	ARG
35	BN	50	GLY
35	BN	52	VAL
35	BN	88	ASN
35	BN	90	GLN
35	BN	102	VAL
35	BN	104	ARG
35	BN	121	VAL
36	BO	7	ARG
36	BO	11	GLY
36	BO	23	PRO
36	BO	32	THR
36	BO	34	GLY
36	BO	39	LYS
36	BO	43	GLY
36	BO	67	MET
36	BO	84	ASN
36	BO	87	ASP
36	BO	92	GLU
37	BP	12	GLN
37	BP	45	GLN
37	BP	88	GLY
37	BP	94	VAL
37	BP	100	GLY
37	BP	107	ALA
37	BP	127	ILE
37	BP	136	ALA
37	BP	137	TYR
38	BQ	8	ARG
38	BQ	71	GLN
38	BQ	86	ARG
38	BQ	94	TYR
39	BR	11	LYS
39	BR	23	ARG
39	BR	30	ARG
39	BR	33	LYS
39	BR	43	GLU
39	BR	67	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	BR	78	LEU
39	BR	82	ILE
39	BR	97	ARG
40	BS	24	PRO
40	BS	30	VAL
40	BS	36	GLU
40	BS	41	ARG
40	BS	82	LEU
40	BS	99	LEU
40	BS	104	ASN
40	BS	114	LEU
41	BT	26	GLY
41	BT	27	LEU
41	BT	47	TYR
41	BT	53	ARG
41	BT	78	THR
41	BT	88	ILE
41	BT	90	VAL
41	BT	93	LYS
41	BT	110	VAL
42	BU	8	GLY
42	BU	14	VAL
42	BU	18	LEU
42	BU	45	THR
42	BU	72	VAL
42	BU	81	TYR
43	BV	15	ARG
43	BV	26	GLY
43	BV	30	GLU
43	BV	75	TYR
43	BV	90	ARG
44	BW	8	ILE
44	BW	15	GLU
44	BW	33	LYS
44	BW	49	VAL
44	BW	53	LYS
44	BW	67	GLY
44	BW	74	PRO
44	BW	85	PRO
45	BX	21	LYS
45	BX	29	GLU
45	BX	33	LYS

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Mol	Chain	Res	Type
45	BX	34	LYS
45	BX	48	ALA
45	BX	66	PRO
45	BX	83	THR
45	BX	86	ARG
45	BX	95	LYS
45	BX	106	LEU
46	BY	11	GLU
46	BY	31	ARG
46	BY	50	GLN
46	BY	54	HIS
46	BY	123	ASP
46	BY	169	GLU
46	BY	170	THR
47	BZ	21	LEU
47	BZ	67	VAL
48	B1	17	GLU
48	B1	66	ASN
49	B2	39	ASP
49	B2	53	LEU
50	B3	3	GLU
50	B3	7	PRO
50	B3	21	VAL
50	B3	48	ARG
50	B3	50	VAL
50	B3	51	ASP
50	B3	56	VAL
51	B4	20	ARG
52	B5	18	ARG
52	B5	28	ARG
52	B5	31	PRO
52	B5	32	ASN
52	B5	48	VAL
52	B5	52	VAL
53	B6	3	ARG
53	B6	5	TRP
53	B6	14	LYS
53	B6	19	ARG
54	B7	32	LEU
54	B7	34	TRP
54	B7	52	LYS
55	B8	3	VAL

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Mol	Chain	Res	Type
55	B8	7	VAL
55	B8	33	LYS
4	AE	88	ALA
4	AE	96	ARG
4	AE	110	GLN
4	AE	141	GLU
4	AE	157	ARG
4	AE	180	LEU
4	AE	183	PRO
4	AE	237	ALA
5	AF	7	PRO
5	AF	49	SER
5	AF	62	ASP
5	AF	81	GLY
5	AF	127	ARG
5	AF	139	GLN
5	AF	145	GLY
5	AF	178	LEU
5	AF	181	ASN
6	AG	7	PRO
6	AG	40	PRO
6	AG	51	PRO
6	AG	53	ASP
6	AG	153	ARG
7	AH	26	PHE
7	AH	96	PRO
7	AH	112	LEU
8	AI	12	PRO
8	AI	15	ASP
8	AI	69	GLU
9	AJ	6	ARG
9	AJ	38	LEU
9	AJ	103	TRP
9	AJ	121	ALA
10	AK	24	THR
10	AK	39	LEU
10	AK	41	ARG
10	AK	44	PHE
10	AK	69	ARG
10	AK	73	ASP
10	AK	90	GLY
11	AL	43	ALA

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Mol	Chain	Res	Type
11	AL	47	LEU
11	AL	102	LEU
11	AL	103	THR
11	AL	105	ASP
11	AL	117	HIS
12	AM	77	PRO
13	AN	37	GLY
13	AN	53	SER
13	AN	93	GLN
13	AN	123	LYS
14	AO	23	LYS
14	AO	26	ALA
14	AO	80	HIS
14	AO	100	ILE
14	AO	105	TYR
14	AO	106	ASP
14	AO	107	ALA
14	AO	121	GLY
14	AO	122	THR
15	AP	5	ALA
15	AP	45	VAL
15	AP	70	LEU
15	AP	75	ALA
15	AP	87	TYR
15	AP	120	LYS
17	AR	19	PRO
17	AR	33	THR
17	AR	88	ARG
18	AS	28	ARG
18	AS	44	THR
18	AS	54	GLU
18	AS	66	PRO
20	AU	71	LYS
20	AU	72	ARG
20	AU	81	PHE
21	AV	25	LYS
21	AV	30	LEU
22	AW	15	ARG
22	AW	24	LEU
22	AW	32	ALA
22	AW	50	GLU
22	AW	57	ARG

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Mol	Chain	Res	Type
22	AW	59	ALA
22	AW	76	ALA
22	AW	84	LEU
26	BC	59	ARG
26	BC	69	GLY
26	BC	78	ALA
26	BC	90	GLY
26	BC	167	LYS
26	BC	226	PRO
27	BD	56	GLY
27	BD	86	PRO
27	BD	226	MET
27	BD	227	ASN
27	BD	233	HIS
27	BD	245	PRO
27	BD	246	PRO
27	BD	259	THR
28	BE	51	PHE
28	BE	67	PHE
28	BE	75	VAL
28	BE	126	PRO
29	BF	21	ALA
29	BF	24	LEU
29	BF	72	ARG
29	BF	159	GLY
30	BG	30	GLU
30	BG	57	ALA
30	BG	81	LYS
30	BG	106	LEU
30	BG	125	PHE
30	BG	167	GLU
30	BG	178	PHE
31	BH	67	LEU
31	BH	94	TYR
31	BH	114	VAL
32	BK	100	ALA
32	BK	116	LEU
33	BL	31	GLY
33	BL	51	ALA
33	BL	82	ALA
33	BL	84	LEU
34	BM	18	ALA

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Mol	Chain	Res	Type
34	BM	29	LYS
34	BM	109	LYS
34	BM	138	LEU
35	BN	10	VAL
35	BN	59	LYS
35	BN	91	LEU
35	BN	92	GLU
35	BN	109	LYS
36	BO	16	ARG
36	BO	26	GLY
36	BO	37	GLY
36	BO	81	GLN
37	BP	26	TYR
37	BP	31	ASP
37	BP	46	GLN
37	BP	73	PRO
37	BP	115	MET
38	BQ	5	LYS
38	BQ	49	ASP
38	BQ	58	GLY
38	BQ	100	LEU
39	BR	10	ARG
39	BR	60	GLY
39	BR	66	ALA
39	BR	72	ALA
39	BR	102	ALA
40	BS	4	GLY
40	BS	28	VAL
40	BS	102	ILE
41	BT	6	THR
41	BT	96	ALA
41	BT	97	ASP
42	BU	29	PRO
43	BV	66	GLU
43	BV	67	ASP
44	BW	48	LYS
45	BX	16	ALA
45	BX	74	PRO
46	BY	64	GLY
46	BY	80	ARG
46	BY	82	ARG
46	BY	95	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	BY	131	ARG
46	BY	145	GLU
46	BY	160	GLY
47	BZ	56	ASP
47	BZ	83	PRO
50	B3	27	THR
50	B3	58	ARG
50	B3	61	ARG
51	B4	5	PRO
51	B4	9	LYS
51	B4	14	ALA
51	B4	47	PRO
51	B4	59	GLU
52	B5	25	LYS
52	B5	34	LEU
53	B6	4	THR
53	B6	11	LYS
53	B6	31	LEU
53	B6	39	ARG
53	B6	40	TRP
53	B6	46	VAL
54	B7	13	ARG
54	B7	18	ALA
54	B7	41	ILE
54	B7	53	PRO
54	B7	57	ARG
54	B7	61	LEU
4	AE	74	LYS
4	AE	91	PRO
4	AE	98	LEU
4	AE	150	SER
4	AE	158	LEU
4	AE	167	PRO
4	AE	174	VAL
4	AE	193	ASP
4	AE	229	VAL
5	AF	3	ASN
5	AF	16	ARG
5	AF	109	PRO
6	AG	36	ARG
6	AG	147	ALA
6	AG	196	LEU

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Mol	Chain	Res	Type
7	AH	53	LEU
7	AH	153	LYS
8	AI	17	SER
9	AJ	32	ARG
9	AJ	93	PRO
9	AJ	97	GLN
9	AJ	131	LYS
9	AJ	155	ARG
10	AK	71	GLY
11	AL	55	ALA
11	AL	95	LYS
11	AL	110	GLU
11	AL	126	SER
12	AM	30	SER
12	AM	53	PRO
12	AM	54	PHE
13	AN	118	GLY
14	AO	16	GLU
14	AO	17	LYS
14	AO	70	ILE
15	AP	72	ALA
15	AP	106	ASN
16	AQ	16	PHE
17	AR	5	LYS
17	AR	44	LYS
18	AS	57	ARG
18	AS	64	ALA
19	AT	6	LEU
19	AT	14	LYS
19	AT	53	LEU
21	AV	76	PRO
22	AW	58	LYS
22	AW	61	SER
22	AW	78	ALA
22	AW	97	ALA
23	AX	8	THR
23	AX	24	ARG
26	BC	56	GLN
26	BC	71	GLN
27	BD	37	LEU
27	BD	209	ALA
27	BD	248	SER

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Mol	Chain	Res	Type
27	BD	257	LEU
28	BE	28	ALA
28	BE	32	PRO
28	BE	53	PRO
28	BE	89	ASP
28	BE	94	GLU
28	BE	119	ARG
28	BE	135	HIS
28	BE	143	ASN
28	BE	165	VAL
29	BF	64	ILE
29	BF	111	ALA
29	BF	137	LYS
29	BF	168	ARG
29	BF	183	VAL
30	BG	153	ARG
30	BG	166	ASP
31	BH	58	GLU
31	BH	138	LYS
31	BH	154	PRO
31	BH	175	LYS
32	BK	34	GLY
33	BL	85	GLU
33	BL	95	LYS
34	BM	28	THR
34	BM	90	MET
34	BM	108	PRO
35	BN	106	LEU
36	BO	9	ASN
36	BO	15	ARG
36	BO	25	SER
36	BO	35	HIS
36	BO	63	PRO
36	BO	89	ALA
36	BO	108	LYS
37	BP	22	LYS
37	BP	37	LEU
37	BP	79	LEU
37	BP	84	GLY
37	BP	89	ASN
37	BP	98	LYS
38	BQ	12	ARG

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Mol	Chain	Res	Type
38	BQ	42	LYS
39	BR	59	LYS
39	BR	80	LEU
39	BR	89	ARG
40	BS	9	LEU
40	BS	77	PRO
40	BS	96	ARG
40	BS	110	ILE
40	BS	111	ARG
40	BS	112	ARG
41	BT	41	ALA
41	BT	60	LEU
41	BT	72	HIS
41	BT	111	GLU
42	BU	2	PHE
44	BW	32	PRO
45	BX	85	VAL
46	BY	47	VAL
46	BY	113	ALA
48	B1	36	ILE
49	B2	23	LEU
49	B2	42	ALA
50	B3	26	SER
50	B3	41	PRO
50	B3	52	THR
51	B4	24	ALA
51	B4	48	GLU
51	B4	56	LYS
51	B4	58	LEU
52	B5	40	CYS
52	B5	47	THR
53	B6	35	ARG
55	B8	12	ASP
55	B8	29	ASN
4	AE	75	LYS
5	AF	146	ALA
5	AF	174	PRO
7	AH	95	ALA
7	AH	113	ALA
8	AI	36	ARG
9	AJ	96	GLN
9	AJ	122	HIS

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Mol	Chain	Res	Type
10	AK	65	TYR
10	AK	104	ARG
11	AL	52	ALA
11	AL	107	ARG
12	AM	73	ASP
14	AO	111	LYS
14	AO	123	LYS
15	AP	27	LYS
15	AP	103	THR
16	AQ	13	THR
17	AR	29	VAL
18	AS	36	ILE
20	AU	19	LYS
21	AV	11	VAL
21	AV	29	ARG
21	AV	67	VAL
21	AV	73	GLU
22	AW	25	ARG
22	AW	60	GLU
23	AX	10	ARG
23	AX	22	ARG
26	BC	20	TYR
26	BC	84	LYS
26	BC	117	PRO
26	BC	148	ASN
26	BC	200	LYS
27	BD	88	ARG
27	BD	208	LYS
27	BD	210	GLY
27	BD	231	HIS
28	BE	8	LYS
28	BE	58	ARG
28	BE	129	HIS
28	BE	179	GLU
29	BF	178	PRO
29	BF	182	ASN
29	BF	185	ASP
30	BG	7	LEU
30	BG	113	ARG
30	BG	135	LEU
31	BH	75	ALA
32	BK	40	THR

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Mol	Chain	Res	Type
33	BL	26	ALA
33	BL	54	PRO
33	BL	101	TRP
34	BM	78	TYR
34	BM	87	LEU
34	BM	112	LEU
35	BN	67	LYS
36	BO	19	VAL
36	BO	31	ALA
36	BO	120	ALA
36	BO	131	SER
37	BP	47	ILE
37	BP	62	GLY
37	BP	119	ARG
38	BQ	74	LYS
40	BS	13	ARG
41	BT	9	VAL
42	BU	66	ARG
44	BW	24	GLY
45	BX	17	SER
46	BY	85	HIS
46	BY	168	GLU
49	B2	17	LYS
50	B3	24	THR
51	B4	49	CYS
51	B4	51	TYR
55	B8	4	ARG
4	AE	20	GLU
4	AE	176	GLU
5	AF	87	LEU
6	AG	92	VAL
6	AG	94	LEU
6	AG	117	ALA
7	AH	142	LEU
8	AI	37	VAL
9	AJ	18	TYR
9	AJ	50	ILE
9	AJ	130	GLY
10	AK	80	ILE
11	AL	57	GLY
12	AM	37	PRO
12	AM	41	PRO

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Mol	Chain	Res	Type
13	AN	34	ASP
14	AO	90	VAL
15	AP	3	ARG
15	AP	7	VAL
15	AP	97	PRO
19	AT	17	LYS
19	AT	80	GLY
22	AW	20	LEU
22	AW	67	ALA
26	BC	49	ILE
27	BD	83	GLU
27	BD	238	GLY
27	BD	254	THR
29	BF	134	GLY
30	BG	44	GLY
31	BH	125	VAL
31	BH	131	VAL
31	BH	173	PRO
32	BK	111	PRO
35	BN	115	VAL
37	BP	28	ALA
37	BP	91	GLU
38	BQ	61	HIS
40	BS	80	SER
41	BT	7	GLY
50	B3	22	ILE
50	B3	29	PRO
51	B4	27	PRO
51	B4	31	VAL
54	B7	8	LYS
54	B7	20	GLY
54	B7	33	ASN
4	AE	130	ARG
5	AF	70	VAL
13	AN	49	GLY
16	AQ	7	ILE
17	AR	82	ILE
26	BC	41	VAL
27	BD	127	VAL
32	BK	7	GLU
33	BL	83	GLY
36	BO	53	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
37	BP	19	GLY
37	BP	61	GLY
41	BT	87	GLY
41	BT	105	VAL
45	BX	24	VAL
46	BY	141	VAL
49	B2	43	ILE
54	B7	14	VAL
6	AG	128	VAL
6	AG	136	PRO
6	AG	143	GLY
8	AI	26	ILE
15	AP	113	PRO
17	AR	45	VAL
20	AU	51	LEU
22	AW	100	ILE
28	BE	71	GLY
28	BE	116	VAL
28	BE	161	GLY
31	BH	76	VAL
33	BL	91	PRO
34	BM	44	PRO
36	BO	97	PRO
37	BP	99	PRO
44	BW	43	VAL
47	BZ	8	GLY
47	BZ	73	GLY
49	B2	45	GLY
5	AF	197	GLY
14	AO	104	VAL
27	BD	142	VAL
31	BH	55	PRO
31	BH	126	PRO
33	BL	87	GLY
37	BP	106	VAL
46	BY	167	PRO
50	B3	28	LYS
4	AE	239	VAL
8	AI	65	VAL
12	AM	91	PRO
14	AO	96	VAL
15	AP	15	VAL

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Mol	Chain	Res	Type
15	AP	85	GLY
22	AW	41	ILE
26	BC	14	VAL
31	BH	115	VAL
37	BP	52	VAL
39	BR	69	VAL
42	BU	90	PRO
45	BX	44	ILE
46	BY	129	SER
46	BY	177	PRO
50	B3	5	ILE
50	B3	54	GLY
4	AE	182	ILE
11	AL	90	PRO
13	AN	48	ILE
15	AP	53	VAL
32	BK	31	LEU
36	BO	126	VAL
43	BV	80	PRO
45	BX	18	GLY

### 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%)	138 (68%)	64 (32%)	0	3
5	AF	160/188 (85%)	123 (77%)	37 (23%)	1	8
6	AG	180/181 (99%)	131 (73%)	49 (27%)	0	5
7	AH	115/123 (94%)	78 (68%)	37 (32%)	0	2
8	AI	90/90 (100%)	61 (68%)	29 (32%)	0	2
9	AJ	126/127 (99%)	93 (74%)	33 (26%)	0	5
10	AK	119/119 (100%)	86 (72%)	33 (28%)	0	4
11	AL	98/99 (99%)	73 (74%)	25 (26%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	AM	88/92 (96%)	67 (76%)	21 (24%)	1	7
13	AN	90/99 (91%)	74 (82%)	16 (18%)	2	16
14	AO	104/109 (95%)	81 (78%)	23 (22%)	1	9
15	AP	100/101 (99%)	75 (75%)	25 (25%)	1	6
16	AQ	49/50 (98%)	36 (74%)	13 (26%)	0	5
17	AR	79/80 (99%)	64 (81%)	15 (19%)	2	13
18	AS	72/74 (97%)	49 (68%)	23 (32%)	0	2
19	AT	96/97 (99%)	67 (70%)	29 (30%)	0	3
20	AU	64/77 (83%)	48 (75%)	16 (25%)	1	6
21	AV	71/80 (89%)	55 (78%)	16 (22%)	1	9
22	AW	76/82 (93%)	59 (78%)	17 (22%)	1	9
23	AX	19/22 (86%)	17 (90%)	2 (10%)	8	37
26	BC	180/181 (99%)	151 (84%)	29 (16%)	3	21
27	BD	215/218 (99%)	153 (71%)	62 (29%)	0	3
28	BE	166/166 (100%)	102 (61%)	64 (39%)	0	0
29	BF	164/166 (99%)	105 (64%)	59 (36%)	0	1
30	BG	156/156 (100%)	112 (72%)	44 (28%)	0	3
31	BH	143/148 (97%)	109 (76%)	34 (24%)	1	7
32	BK	124/124 (100%)	92 (74%)	32 (26%)	0	6
33	BL	105/111 (95%)	89 (85%)	16 (15%)	3	23
34	BM	118/119 (99%)	79 (67%)	39 (33%)	0	2
35	BN	100/100 (100%)	69 (69%)	31 (31%)	0	3
36	BO	111/116 (96%)	71 (64%)	40 (36%)	0	1
37	BP	106/111 (96%)	65 (61%)	41 (39%)	0	0
38	BQ	100/101 (99%)	71 (71%)	29 (29%)	0	3
39	BR	87/88 (99%)	63 (72%)	24 (28%)	0	4
40	BS	105/127 (83%)	68 (65%)	37 (35%)	0	1
41	BT	93/94 (99%)	64 (69%)	29 (31%)	0	3
42	BU	82/82 (100%)	57 (70%)	25 (30%)	0	3
43	BV	90/92 (98%)	64 (71%)	26 (29%)	0	3
44	BW	76/78 (97%)	57 (75%)	19 (25%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	BX	91/91 (100%)	72 (79%)	19 (21%)	1	10
46	BY	159/179 (89%)	120 (76%)	39 (24%)	1	6
47	BZ	67/67 (100%)	51 (76%)	16 (24%)	1	7
48	B1	62/62 (100%)	44 (71%)	18 (29%)	0	3
49	B2	51/52 (98%)	36 (71%)	15 (29%)	0	3
50	B3	63/63 (100%)	45 (71%)	18 (29%)	0	3
51	B4	50/52 (96%)	31 (62%)	19 (38%)	0	1
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%)	44 (82%)	10 (18%)	2	15
55	B8	34/34 (100%)	29 (85%)	5 (15%)	4	24
All	All	5040/5237 (96%)	3649 (72%)	1391 (28%)	0	4

All (1391) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	AE	10	LEU
4	AE	11	LEU
4	AE	17	PHE
4	AE	20	GLU
4	AE	21	ARG
4	AE	23	ARG
4	AE	25	ASN
4	AE	26	PRO
4	AE	35	GLU
4	AE	36	ARG
4	AE	40	HIS
4	AE	44	LEU
4	AE	48	MET
4	AE	49	GLU
4	AE	52	GLU
4	AE	56	ARG
4	AE	57	PHE
4	AE	61	LEU
4	AE	64	ARG
4	AE	69	LEU
4	AE	70	PHE
4	AE	74	LYS

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Mol	Chain	Res	Type
4	AE	75	LYS
4	AE	80	ILE
4	AE	84	GLU
4	AE	91	PRO
4	AE	92	TYR
4	AE	96	ARG
4	AE	101	MET
4	AE	102	LEU
4	AE	105	PHE
4	AE	111	ARG
4	AE	114	ARG
4	AE	118	LEU
4	AE	122	PHE
4	AE	131	PRO
4	AE	132	LYS
4	AE	134	GLU
4	AE	135	GLN
4	AE	137	ARG
4	AE	147	LYS
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	168	THR
4	AE	169	LYS
4	AE	172	ILE
4	AE	181	PHE
4	AE	182	ILE
4	AE	185	ILE
4	AE	187	LEU
4	AE	189	ASP
4	AE	191	ASP
4	AE	194	PRO
4	AE	195	ASP
4	AE	196	LEU
4	AE	204	ASN
4	AE	209	ARG
4	AE	212	GLN
4	AE	217	ARG
4	AE	222	ILE

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Mol	Chain	Res	Type
5	AF	5	ILE
5	AF	8	ILE
5	AF	10	PHE
5	AF	15	THR
5	AF	23	TYR
5	AF	29	TYR
5	AF	30	ARG
5	AF	33	LEU
5	AF	35	GLU
5	AF	38	ARG
5	AF	46	GLU
5	AF	48	TYR
5	AF	52	LEU
5	AF	59	ARG
5	AF	67	THR
5	AF	82	GLU
5	AF	89	GLU
5	AF	91	LEU
5	AF	95	THR
5	AF	97	LYS
5	AF	107	GLN
5	AF	125	GLU
5	AF	136	GLN
5	AF	139	GLN
5	AF	140	ARG
5	AF	142	MET
5	AF	164	ARG
5	AF	176	HIS
5	AF	178	LEU
5	AF	184	TYR
5	AF	186	PHE
5	AF	190	ARG
5	AF	193	TYR
5	AF	195	VAL
5	AF	196	LEU
5	AF	201	TYR
5	AF	204	LEU
6	AG	5	ILE
6	AG	8	VAL
6	AG	9	CYS
6	AG	10	ARG
6	AG	14	ARG

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Mol	Chain	Res	Type
6	AG	15	GLU
6	AG	20	TYR
6	AG	24	GLU
6	AG	25	ARG
6	AG	26	CYS
6	AG	29	PRO
6	AG	31	CYS
6	AG	33	MET
6	AG	47	ARG
6	AG	51	PRO
6	AG	57	ARG
6	AG	59	ARG
6	AG	61	LYS
6	AG	63	LYS
6	AG	68	TYR
6	AG	78	LEU
6	AG	79	PHE
6	AG	83	SER
6	AG	85	LYS
6	AG	107	ARG
6	AG	108	LEU
6	AG	114	ARG
6	AG	116	GLN
6	AG	120	LEU
6	AG	131	ARG
6	AG	135	LEU
6	AG	138	TYR
6	AG	141	ARG
6	AG	142	PRO
6	AG	146	ILE
6	AG	154	ASN
6	AG	155	LEU
6	AG	168	ARG
6	AG	173	TRP
6	AG	175	SER
6	AG	176	LEU
6	AG	178	VAL
6	AG	181	MET
6	AG	182	LYS
6	AG	190	ASP
6	AG	191	ARG
6	AG	193	ASP

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Mol	Chain	Res	Type
6	AG	196	LEU
6	AG	198	VAL
7	AH	5	ASP
7	AH	6	PHE
7	AH	7	GLU
7	AH	15	ARG
7	AH	16	THR
7	AH	25	ARG
7	AH	26	PHE
7	AH	27	ARG
7	AH	28	PHE
7	AH	31	LEU
7	AH	34	VAL
7	AH	41	VAL
7	AH	56	GLN
7	AH	60	TYR
7	AH	63	ARG
7	AH	64	ARG
7	AH	67	VAL
7	AH	73	ASN
7	AH	78	HIS
7	AH	79	GLU
7	AH	80	ILE
7	AH	81	GLU
7	AH	89	ILE
7	AH	91	LEU
7	AH	101	ILE
7	AH	105	VAL
7	AH	111	GLU
7	AH	112	LEU
7	AH	119	LEU
7	AH	121	LYS
7	AH	128	PRO
7	AH	131	ILE
7	AH	133	TYR
7	AH	141	GLN
7	AH	143	ARG
7	AH	150	ARG
7	AH	152	ARG
8	AI	2	ARG
8	AI	4	TYR
8	AI	5	GLU

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Mol	Chain	Res	Type
8	AI	6	VAL
8	AI	8	ILE
8	AI	10	LEU
8	AI	14	LEU
8	AI	28	ARG
8	AI	37	VAL
8	AI	40	VAL
8	AI	47	ARG
8	AI	48	LEU
8	AI	50	TYR
8	AI	55	ASP
8	AI	57	GLN
8	AI	60	PHE
8	AI	65	VAL
8	AI	66	GLU
8	AI	67	MET
8	AI	69	GLU
8	AI	74	ASP
8	AI	75	LEU
8	AI	79	LEU
8	AI	83	ASP
8	AI	88	VAL
8	AI	94	GLN
8	AI	95	GLU
8	AI	98	LEU
8	AI	100	ASN
9	AJ	5	ARG
9	AJ	6	ARG
9	AJ	10	ARG
9	AJ	12	LEU
9	AJ	14	PRO
9	AJ	17	VAL
9	AJ	18	TYR
9	AJ	22	LEU
9	AJ	47	CYS
9	AJ	51	GLN
9	AJ	54	THR
9	AJ	56	GLN
9	AJ	69	VAL
9	AJ	72	ARG
9	AJ	74	GLU
9	AJ	89	MET

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Mol	Chain	Res	Type
9	AJ	99	LEU
9	AJ	101	LEU
9	AJ	103	TRP
9	AJ	106	GLN
9	AJ	111	ARG
9	AJ	113	GLU
9	AJ	123	GLU
9	AJ	124	LEU
9	AJ	126	ASP
9	AJ	136	LYS
9	AJ	139	GLU
9	AJ	143	ARG
9	AJ	146	GLU
9	AJ	149	ARG
9	AJ	153	HIS
9	AJ	155	ARG
9	AJ	156	TRP
10	AK	4	ASP
10	AK	6	ILE
10	AK	14	ARG
10	AK	18	ARG
10	AK	25	ASP
10	AK	26	VAL
10	AK	31	PHE
10	AK	32	LYS
10	AK	33	GLU
10	AK	36	LEU
10	AK	37	ARG
10	AK	39	LEU
10	AK	41	ARG
10	AK	45	ILE
10	AK	49	GLU
10	AK	50	ARG
10	AK	54	ASP
10	AK	63	LEU
10	AK	70	GLN
10	AK	84	ARG
10	AK	88	LYS
10	AK	92	ARG
10	AK	98	LYS
10	AK	100	ILE
10	AK	102	ARG

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Mol	Chain	Res	Type
10	AK	103	VAL
10	AK	104	ARG
10	AK	107	LEU
10	AK	111	ILE
10	AK	119	LEU
10	AK	122	ARG
10	AK	126	LYS
10	AK	136	GLU
11	AL	4	TYR
11	AL	5	TYR
11	AL	11	LYS
11	AL	12	GLU
11	AL	19	LEU
11	AL	21	PRO
11	AL	23	ASN
11	AL	32	ASP
11	AL	33	PHE
11	AL	37	PHE
11	AL	47	LEU
11	AL	51	ARG
11	AL	54	ASP
11	AL	63	ILE
11	AL	64	THR
11	AL	75	ASP
11	AL	79	LEU
11	AL	89	ASN
11	AL	101	PHE
11	AL	102	LEU
11	AL	105	ASP
11	AL	110	GLU
11	AL	113	LYS
11	AL	116	LYS
11	AL	117	HIS
12	AM	3	LYS
12	AM	4	ILE
12	AM	5	ARG
12	AM	9	ARG
12	AM	11	PHE
12	AM	14	LYS
12	AM	33	GLN
12	AM	45	ARG
12	AM	47	PHE

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Mol	Chain	Res	Type
12	AM	49	VAL
12	AM	60	ARG
12	AM	62	HIS
12	AM	63	PHE
12	AM	73	ASP
12	AM	78	ASN
12	AM	79	ARG
12	AM	81	THR
12	AM	83	GLU
12	AM	85	LEU
12	AM	95	GLU
12	AM	99	LYS
13	AN	13	GLN
13	AN	18	ARG
13	AN	22	HIS
13	AN	39	PRO
13	AN	40	ILE
13	AN	42	TRP
13	AN	50	TYR
13	AN	62	GLN
13	AN	67	ASP
13	AN	78	GLN
13	AN	81	ASP
13	AN	99	GLN
13	AN	104	GLN
13	AN	116	HIS
13	AN	125	PHE
13	AN	126	ARG
14	AO	8	ASN
14	AO	10	LEU
14	AO	16	GLU
14	AO	23	LYS
14	AO	32	PHE
14	AO	38	THR
14	AO	42	THR
14	AO	53	ARG
14	AO	60	LEU
14	AO	64	TYR
14	AO	65	GLU
14	AO	66	VAL
14	AO	73	GLU
14	AO	75	HIS

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Mol	Chain	Res	Type
14	AO	84	LEU
14	AO	85	ILE
14	AO	93	LEU
14	AO	100	ILE
14	AO	101	VAL
14	AO	113	ARG
14	AO	119	LYS
14	AO	126	LYS
14	AO	127	GLU
15	AP	4	ILE
15	AP	11	ARG
15	AP	25	ILE
15	AP	35	GLU
15	AP	47	ASP
15	AP	48	LEU
15	AP	49	THR
15	AP	61	GLU
15	AP	64	TRP
15	AP	66	LEU
15	AP	73	GLU
15	AP	77	ASN
15	AP	80	ARG
15	AP	81	LEU
15	AP	87	TYR
15	AP	88	ARG
15	AP	91	ARG
15	AP	96	LEU
15	AP	99	ARG
15	AP	101	GLN
15	AP	108	ARG
15	AP	110	ARG
15	AP	121	LYS
15	AP	124	PRO
15	AP	126	LYS
16	AQ	16	PHE
16	AQ	21	TYR
16	AQ	22	THR
16	AQ	24	CYS
16	AQ	29	ARG
16	AQ	34	TYR
16	AQ	40	CYS
16	AQ	43	CYS

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Mol	Chain	Res	Type
16	AQ	45	ARG
16	AQ	49	HIS
16	AQ	54	PRO
16	AQ	56	VAL
16	AQ	61	TRP
17	AR	3	ILE
17	AR	4	THR
17	AR	5	LYS
17	AR	13	GLN
17	AR	38	ARG
17	AR	41	GLU
17	AR	42	HIS
17	AR	49	ASP
17	AR	54	ARG
17	AR	64	ARG
17	AR	66	LEU
17	AR	73	GLU
17	AR	77	ARG
17	AR	78	TYR
17	AR	79	ARG
18	AS	2	VAL
18	AS	3	LYS
18	AS	4	ILE
18	AS	6	LEU
18	AS	14	ASN
18	AS	15	PRO
18	AS	18	ARG
18	AS	27	LYS
18	AS	32	TYR
18	AS	36	ILE
18	AS	39	TYR
18	AS	40	ASP
18	AS	48	TRP
18	AS	54	GLU
18	AS	55	ARG
18	AS	59	TRP
18	AS	62	VAL
18	AS	65	GLN
18	AS	66	PRO
18	AS	69	THR
18	AS	72	ARG
18	AS	75	ARG

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Mol	Chain	Res	Type
18	AS	80	PHE
19	AT	6	LEU
19	AT	12	SER
19	AT	15	MET
19	AT	18	THR
19	AT	24	GLU
19	AT	25	ARG
19	AT	27	PHE
19	AT	28	PRO
19	AT	36	ILE
19	AT	38	ARG
19	AT	40	LYS
19	AT	43	LEU
19	AT	48	GLU
19	AT	51	TYR
19	AT	57	VAL
19	AT	58	GLU
19	AT	60	ILE
19	AT	62	SER
19	AT	67	LYS
19	AT	69	LYS
19	AT	84	LEU
19	AT	86	GLU
19	AT	87	LYS
19	AT	93	GLN
19	AT	95	TYR
19	AT	96	GLN
19	AT	98	LEU
19	AT	100	LYS
19	AT	101	ARG
20	AU	28	GLU
20	AU	32	ARG
20	AU	34	TYR
20	AU	36	ASN
20	AU	38	GLU
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

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Mol	Chain	Res	Type
20	AU	79	LEU
20	AU	80	PRO
20	AU	81	PHE
20	AU	83	GLU
21	AV	12	ASP
21	AV	15	LEU
21	AV	16	LEU
21	AV	17	GLU
21	AV	18	LYS
21	AV	19	VAL
21	AV	25	LYS
21	AV	34	TRP
21	AV	36	ARG
21	AV	37	ARG
21	AV	41	VAL
21	AV	42	PRO
21	AV	43	GLU
21	AV	57	HIS
21	AV	61	TYR
21	AV	74	PHE
22	AW	13	LEU
22	AW	23	ARG
22	AW	25	ARG
22	AW	26	ASN
22	AW	30	LYS
22	AW	35	THR
22	AW	42	GLN
22	AW	51	GLU
22	AW	56	MET
22	AW	63	ILE
22	AW	71	THR
22	AW	73	HIS
22	AW	79	ARG
22	AW	84	LEU
22	AW	87	LYS
22	AW	88	VAL
22	AW	91	LEU
23	AX	9	ARG
23	AX	10	ARG
26	BC	6	ARG
26	BC	7	TYR
26	BC	15	ASP

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Mol	Chain	Res	Type
26	BC	20	TYR
26	BC	27	HIS
26	BC	46	LYS
26	BC	47	LEU
26	BC	58	VAL
26	BC	59	ARG
26	BC	70	LYS
26	BC	81	GLU
26	BC	92	ASP
26	BC	99	ILE
26	BC	101	GLN
26	BC	102	LYS
26	BC	111	ASP
26	BC	125	SER
26	BC	130	ILE
26	BC	144	THR
26	BC	160	ARG
26	BC	161	ILE
26	BC	163	PHE
26	BC	164	ARG
26	BC	166	ASP
26	BC	180	PHE
26	BC	190	ARG
26	BC	202	GLU
26	BC	212	VAL
26	BC	213	TYR
27	BD	23	GLU
27	BD	31	LYS
27	BD	34	VAL
27	BD	37	LEU
27	BD	39	LYS
27	BD	44	ASN
27	BD	46	GLN
27	BD	51	VAL
27	BD	52	ARG
27	BD	53	PHE
27	BD	59	LYS
27	BD	63	ARG
27	BD	70	TRP
27	BD	73	VAL
27	BD	84	TYR
27	BD	87	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
27	BD	88	ARG
27	BD	91	ARG
27	BD	92	ILE
27	BD	94	LEU
27	BD	95	LEU
27	BD	101	GLU
27	BD	106	ILE
27	BD	109	ASP
27	BD	115	GLN
27	BD	116	GLN
27	BD	118	VAL
27	BD	121	PRO
27	BD	131	LEU
27	BD	134	ARG
27	BD	145	VAL
27	BD	146	GLU
27	BD	147	LEU
27	BD	155	LEU
27	BD	169	GLU
27	BD	175	LEU
27	BD	176	ARG
27	BD	179	SER
27	BD	181	GLU
27	BD	186	HIS
27	BD	188	GLU
27	BD	190	TYR
27	BD	200	ASP
27	BD	202	LYS
27	BD	206	LEU
27	BD	217	ARG
27	BD	220	HIS
27	BD	230	ASP
27	BD	232	PRO
27	BD	233	HIS
27	BD	239	ARG
27	BD	249	PRO
27	BD	250	TRP
27	BD	252	TRP
27	BD	253	GLN
27	BD	254	THR
27	BD	258	LYS
27	BD	259	THR

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Mol	Chain	Res	Type
27	BD	260	ARG
27	BD	264	LYS
27	BD	270	ILE
27	BD	273	ARG
28	BE	1	MET
28	BE	2	LYS
28	BE	4	ILE
28	BE	5	LEU
28	BE	7	VAL
28	BE	8	LYS
28	BE	12	THR
28	BE	13	ARG
28	BE	14	ILE
28	BE	17	ASP
28	BE	22	PRO
28	BE	38	THR
28	BE	40	GLU
28	BE	41	LYS
28	BE	44	TYR
28	BE	45	THR
28	BE	48	GLN
28	BE	49	LEU
28	BE	51	PHE
28	BE	52	LEU
28	BE	53	PRO
28	BE	56	PRO
28	BE	66	HIS
28	BE	77	ILE
28	BE	78	LEU
28	BE	80	GLU
28	BE	83	ASP
28	BE	91	VAL
28	BE	96	PHE
28	BE	108	SER
28	BE	111	ARG
28	BE	113	PHE
28	BE	118	LYS
28	BE	119	ARG
28	BE	120	TRP
28	BE	121	ASN
28	BE	122	PHE
28	BE	126	PRO

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Mol	Chain	Res	Type
28	BE	129	HIS
28	BE	135	HIS
28	BE	136	ARG
28	BE	137	HIS
28	BE	141	ILE
28	BE	143	ASN
28	BE	149	ARG
28	BE	150	VAL
28	BE	152	LYS
28	BE	154	LYS
28	BE	163	GLU
28	BE	164	ARG
28	BE	165	VAL
28	BE	169	ASN
28	BE	170	LEU
28	BE	171	GLU
28	BE	173	VAL
28	BE	176	ILE
28	BE	180	ASN
28	BE	181	LEU
28	BE	184	VAL
28	BE	185	LYS
28	BE	195	LEU
28	BE	197	ILE
28	BE	199	ARG
28	BE	202	LYS
29	BF	8	GLN
29	BF	14	PRO
29	BF	17	ARG
29	BF	19	GLU
29	BF	23	ASP
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	35	GLU
29	BF	39	TRP
29	BF	46	ARG
29	BF	60	SER
29	BF	64	ILE

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Mol	Chain	Res	Type
29	BF	67	GLN
29	BF	69	HIS
29	BF	74	ARG
29	BF	75	HIS
29	BF	77	ASP
29	BF	78	ILE
29	BF	82	ILE
29	BF	83	PHE
29	BF	95	ARG
29	BF	99	TYR
29	BF	102	PRO
29	BF	105	VAL
29	BF	106	ARG
29	BF	108	LYS
29	BF	117	ARG
29	BF	119	ARG
29	BF	120	GLU
29	BF	122	LYS
29	BF	126	VAL
29	BF	127	GLU
29	BF	133	ASN
29	BF	137	LYS
29	BF	138	GLU
29	BF	140	LEU
29	BF	152	GLU
29	BF	155	LEU
29	BF	157	VAL
29	BF	158	THR
29	BF	168	ARG
29	BF	170	LEU
29	BF	172	TRP
29	BF	175	THR
29	BF	178	PRO
29	BF	181	LEU
29	BF	184	TYR
29	BF	185	ASP
29	BF	188	ARG
29	BF	192	LEU
29	BF	197	ASP
29	BF	200	GLU
29	BF	202	PHE
29	BF	203	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
29	BF	204	ASN
30	BG	8	LYS
30	BG	12	TYR
30	BG	16	ARG
30	BG	20	ILE
30	BG	21	ARG
30	BG	22	ARG
30	BG	25	TYR
30	BG	32	PRO
30	BG	33	ARG
30	BG	34	LEU
30	BG	36	LYS
30	BG	39	ILE
30	BG	41	GLN
30	BG	51	ARG
30	BG	54	GLU
30	BG	68	PRO
30	BG	77	ILE
30	BG	82	LEU
30	BG	91	ARG
30	BG	94	LEU
30	BG	96	ARG
30	BG	97	ASP
30	BG	101	ILE
30	BG	102	PHE
30	BG	103	LEU
30	BG	117	PHE
30	BG	120	LEU
30	BG	126	ASP
30	BG	128	ARG
30	BG	131	TYR
30	BG	133	LEU
30	BG	135	LEU
30	BG	139	LEU
30	BG	143	GLU
30	BG	146	TYR
30	BG	148	MET
30	BG	150	ASP
30	BG	152	LEU
30	BG	153	ARG
30	BG	155	MET
30	BG	170	ARG

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Mol	Chain	Res	Type
30	BG	174	GLU
30	BG	180	PHE
30	BG	181	ARG
31	BH	7	LEU
31	BH	11	VAL
31	BH	13	LYS
31	BH	18	GLU
31	BH	23	ARG
31	BH	25	LYS
31	BH	32	GLU
31	BH	35	VAL
31	BH	40	GLU
31	BH	46	GLU
31	BH	50	VAL
31	BH	52	VAL
31	BH	68	THR
31	BH	69	ARG
31	BH	74	ASN
31	BH	83	TYR
31	BH	90	LYS
31	BH	94	TYR
31	BH	95	ARG
31	BH	103	LEU
31	BH	105	LEU
31	BH	111	HIS
31	BH	115	VAL
31	BH	116	GLU
31	BH	131	VAL
31	BH	132	ARG
31	BH	136	ILE
31	BH	153	LYS
31	BH	157	TYR
31	BH	158	HIS
31	BH	164	TYR
31	BH	167	GLU
31	BH	168	PRO
31	BH	172	LYS
32	BK	4	ILE
32	BK	5	LEU
32	BK	10	GLU
32	BK	11	ASN
32	BK	12	LEU

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Mol	Chain	Res	Type
32	BK	14	ASP
32	BK	20	ASP
32	BK	25	TYR
32	BK	27	ARG
32	BK	33	ARG
32	BK	38	LEU
32	BK	48	GLU
32	BK	60	GLU
32	BK	66	GLU
32	BK	70	LYS
32	BK	75	LEU
32	BK	77	LEU
32	BK	78	THR
32	BK	81	VAL
32	BK	82	ARG
32	BK	101	LEU
32	BK	114	LEU
32	BK	117	GLU
32	BK	125	GLU
32	BK	128	LEU
32	BK	129	THR
32	BK	130	TYR
32	BK	131	LYS
32	BK	134	PRO
32	BK	135	GLU
32	BK	142	VAL
32	BK	147	GLN
33	BL	4	VAL
33	BL	10	LEU
33	BL	12	LEU
33	BL	29	GLN
33	BL	30	HIS
33	BL	56	GLU
33	BL	66	THR
33	BL	73	PRO
33	BL	77	LEU
33	BL	91	PRO
33	BL	101	TRP
33	BL	113	PRO
33	BL	115	LEU
33	BL	116	ASN
33	BL	118	THR

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Mol	Chain	Res	Type
33	BL	120	LEU
34	BM	7	LYS
34	BM	8	GLN
34	BM	12	ARG
34	BM	13	TRP
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	37	LYS
34	BM	38	HIS
34	BM	39	ARG
34	BM	42	TRP
34	BM	43	THR
34	BM	45	ASN
34	BM	52	VAL
34	BM	55	VAL
34	BM	69	GLN
34	BM	72	TYR
34	BM	75	TYR
34	BM	78	TYR
34	BM	79	PRO
34	BM	82	LEU
34	BM	85	ILE
34	BM	89	LYS
34	BM	90	MET
34	BM	91	LEU
34	BM	98	VAL
34	BM	101	HIS
34	BM	109	LYS
34	BM	119	ARG
34	BM	122	VAL
34	BM	127	ASP
34	BM	131	GLN
34	BM	134	ARG
34	BM	136	GLU
35	BN	1	MET
35	BN	3	GLN

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Mol	Chain	Res	Type
35	BN	6	THR
35	BN	7	TYR
35	BN	8	LEU
35	BN	12	ASP
35	BN	14	THR
35	BN	21	CYS
35	BN	23	ARG
35	BN	24	VAL
35	BN	28	SER
35	BN	29	ASN
35	BN	34	THR
35	BN	38	VAL
35	BN	39	ILE
35	BN	42	SER
35	BN	47	ILE
35	BN	56	ASP
35	BN	58	VAL
35	BN	59	LYS
35	BN	64	ARG
35	BN	65	THR
35	BN	77	ILE
35	BN	78	ARG
35	BN	82	ASN
35	BN	89	ASN
35	BN	92	GLU
35	BN	94	ARG
35	BN	97	ARG
35	BN	114	ILE
35	BN	116	SER
36	BO	7	ARG
36	BO	13	ASN
36	BO	17	LYS
36	BO	29	LYS
36	BO	30	THR
36	BO	33	ARG
36	BO	40	SER
36	BO	41	ARG
36	BO	45	LEU
36	BO	46	LYS
36	BO	48	PRO
36	BO	49	ARG
36	BO	52	GLU

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Mol	Chain	Res	Type
36	BO	55	ARG
36	BO	59	LEU
36	BO	60	MET
36	BO	64	LYS
36	BO	65	ARG
36	BO	68	GLN
36	BO	74	GLU
36	BO	75	ILE
36	BO	79	ARG
36	BO	84	ASN
36	BO	88	LEU
36	BO	94	GLU
36	BO	99	LEU
36	BO	105	LEU
36	BO	108	LYS
36	BO	110	TYR
36	BO	114	ILE
36	BO	117	GLU
36	BO	122	PRO
36	BO	123	LEU
36	BO	126	VAL
36	BO	128	HIS
36	BO	130	PHE
36	BO	137	LYS
36	BO	138	LEU
36	BO	147	LEU
36	BO	149	GLU
37	BP	6	ARG
37	BP	12	GLN
37	BP	14	ARG
37	BP	18	LYS
37	BP	26	TYR
37	BP	32	TYR
37	BP	34	LEU
37	BP	41	TRP
37	BP	42	ILE
37	BP	43	THR
37	BP	45	GLN
37	BP	48	GLU
37	BP	51	ARG
37	BP	56	ARG
37	BP	60	ARG

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Mol	Chain	Res	Type
37	BP	63	LYS
37	BP	64	ILE
37	BP	65	PHE
37	BP	71	ASP
37	BP	74	TYR
37	BP	76	LYS
37	BP	79	LEU
37	BP	80	GLU
37	BP	83	MET
37	BP	89	ASN
37	BP	97	VAL
37	BP	98	LYS
37	BP	101	ARG
37	BP	104	PHE
37	BP	105	GLU
37	BP	109	VAL
37	BP	112	GLU
37	BP	118	LEU
37	BP	124	LYS
37	BP	126	PRO
37	BP	127	ILE
37	BP	130	LYS
37	BP	133	ARG
37	BP	135	ASP
37	BP	137	TYR
37	BP	139	GLU
38	BQ	4	LEU
38	BQ	5	LYS
38	BQ	10	LEU
38	BQ	11	ASN
38	BQ	13	HIS
38	BQ	17	ARG
38	BQ	18	LEU
38	BQ	23	ASN
38	BQ	37	THR
38	BQ	49	ASP
38	BQ	52	ILE
38	BQ	56	LYS
38	BQ	57	ARG
38	BQ	59	ASP
38	BQ	60	LEU
38	BQ	64	ARG

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Mol	Chain	Res	Type
38	BQ	74	LYS
38	BQ	77	ARG
38	BQ	79	LEU
38	BQ	80	PHE
38	BQ	82	GLU
38	BQ	86	ARG
38	BQ	88	ARG
38	BQ	89	ASP
38	BQ	99	LYS
38	BQ	100	LEU
38	BQ	105	ARG
38	BQ	113	LEU
38	BQ	116	LEU
39	BR	3	ARG
39	BR	9	ARG
39	BR	11	LYS
39	BR	12	PHE
39	BR	20	ARG
39	BR	21	THR
39	BR	23	ARG
39	BR	26	LEU
39	BR	27	SER
39	BR	29	PHE
39	BR	36	TYR
39	BR	38	GLN
39	BR	42	ASP
39	BR	57	LYS
39	BR	73	LEU
39	BR	76	LYS
39	BR	78	LEU
39	BR	80	LEU
39	BR	88	ASP
39	BR	94	TYR
39	BR	97	ARG
39	BR	98	VAL
39	BR	106	ARG
39	BR	112	PHE
40	BS	1	MET
40	BS	20	PRO
40	BS	22	PHE
40	BS	23	ARG
40	BS	30	VAL

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Mol	Chain	Res	Type
40	BS	32	TYR
40	BS	39	ARG
40	BS	43	GLN
40	BS	46	GLU
40	BS	50	ILE
40	BS	53	ARG
40	BS	54	ARG
40	BS	55	ASN
40	BS	57	PHE
40	BS	58	ASN
40	BS	61	PHE
40	BS	62	THR
40	BS	64	ARG
40	BS	66	VAL
40	BS	68	TYR
40	BS	75	ILE
40	BS	78	LEU
40	BS	79	HIS
40	BS	82	LEU
40	BS	85	LYS
40	BS	88	ILE
40	BS	93	ARG
40	BS	95	ARG
40	BS	96	ARG
40	BS	101	PHE
40	BS	102	ILE
40	BS	103	ARG
40	BS	106	SER
40	BS	107	ASP
40	BS	108	ARG
40	BS	109	GLU
40	BS	117	ASP
41	BT	6	THR
41	BT	13	LYS
41	BT	16	LYS
41	BT	19	LYS
41	BT	25	TRP
41	BT	27	LEU
41	BT	32	PHE
41	BT	36	ARG
41	BT	38	THR
41	BT	50	ARG

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Mol	Chain	Res	Type
41	BT	52	ARG
41	BT	53	ARG
41	BT	54	LYS
41	BT	55	ARG
41	BT	58	ARG
41	BT	65	ILE
41	BT	70	ARG
41	BT	75	ASN
41	BT	77	SER
41	BT	81	HIS
41	BT	83	LEU
41	BT	88	ILE
41	BT	92	ARG
41	BT	93	LYS
41	BT	97	ASP
41	BT	105	VAL
41	BT	106	PHE
41	BT	108	GLU
41	BT	114	LYS
42	BU	4	ILE
42	BU	13	ARG
42	BU	15	GLU
42	BU	18	LEU
42	BU	20	LEU
42	BU	21	ARG
42	BU	29	PRO
42	BU	35	LEU
42	BU	36	PRO
42	BU	40	LEU
42	BU	43	GLU
42	BU	44	LYS
42	BU	45	THR
42	BU	49	THR
42	BU	52	VAL
42	BU	56	SER
42	BU	60	GLU
42	BU	64	HIS
42	BU	78	LYS
42	BU	79	VAL
42	BU	83	ARG
42	BU	84	LYS
42	BU	87	HIS

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Mol	Chain	Res	Type
42	BU	93	GLU
42	BU	100	ARG
43	BV	4	LYS
43	BV	8	ARG
43	BV	10	VAL
43	BV	11	ARG
43	BV	12	ILE
43	BV	16	LYS
43	BV	18	ARG
43	BV	24	ILE
43	BV	31	GLU
43	BV	33	ARG
43	BV	40	ASN
43	BV	42	ARG
43	BV	45	TYR
43	BV	47	VAL
43	BV	60	ASN
43	BV	67	ASP
43	BV	71	VAL
43	BV	82	LEU
43	BV	87	PRO
43	BV	88	ARG
43	BV	90	ARG
43	BV	94	ASP
43	BV	95	ILE
43	BV	98	LYS
43	BV	103	ILE
43	BV	106	ILE
44	BW	8	ILE
44	BW	9	LEU
44	BW	13	LEU
44	BW	14	SER
44	BW	16	LYS
44	BW	23	GLU
44	BW	28	PHE
44	BW	36	LYS
44	BW	37	THR
44	BW	38	GLU
44	BW	45	THR
44	BW	47	PHE
44	BW	50	LYS
44	BW	55	ASN

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Mol	Chain	Res	Type
44	BW	63	LYS
44	BW	65	ARG
44	BW	73	ARG
44	BW	83	VAL
44	BW	92	LEU
45	BX	12	THR
45	BX	13	VAL
45	BX	14	LEU
45	BX	19	LYS
45	BX	26	LYS
45	BX	28	LYS
45	BX	35	TYR
45	BX	42	VAL
45	BX	60	PHE
45	BX	64	GLU
45	BX	73	ARG
45	BX	75	ILE
45	BX	84	ARG
45	BX	89	PHE
45	BX	90	LEU
45	BX	91	GLU
45	BX	102	CYS
45	BX	107	ASP
45	BX	109	GLU
46	BY	3	TYR
46	BY	8	TYR
46	BY	13	GLU
46	BY	14	LYS
46	BY	28	MET
46	BY	30	ASN
46	BY	44	PHE
46	BY	45	ASP
46	BY	49	ARG
46	BY	50	GLN
46	BY	53	ILE
46	BY	55	HIS
46	BY	58	VAL
46	BY	60	GLU
46	BY	62	PRO
46	BY	63	ASP
46	BY	70	LEU
46	BY	78	LYS

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Mol	Chain	Res	Type
46	BY	80	ARG
46	BY	83	PRO
46	BY	86	VAL
46	BY	87	ASP
46	BY	89	PHE
46	BY	90	VAL
46	BY	95	PRO
46	BY	104	PHE
46	BY	108	PRO
46	BY	120	ILE
46	BY	129	SER
46	BY	140	ASP
46	BY	151	HIS
46	BY	155	LEU
46	BY	159	PRO
46	BY	163	LEU
46	BY	168	GLU
46	BY	171	ILE
46	BY	174	VAL
46	BY	175	VAL
46	BY	179	ASP
47	BZ	10	THR
47	BZ	20	ARG
47	BZ	26	TYR
47	BZ	29	GLN
47	BZ	30	VAL
47	BZ	32	ARG
47	BZ	36	ILE
47	BZ	37	LEU
47	BZ	40	GLN
47	BZ	41	ARG
47	BZ	46	LYS
47	BZ	57	PHE
47	BZ	58	THR
47	BZ	64	ASP
47	BZ	68	GLU
47	BZ	74	ARG
48	B1	1	MET
48	B1	2	ARG
48	B1	6	GLU
48	B1	12	SER
48	B1	19	LEU

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Mol	Chain	Res	Type
48	B1	22	GLU
48	B1	25	ARG
48	B1	30	LEU
48	B1	32	PHE
48	B1	33	GLN
48	B1	35	SER
48	B1	45	ILE
48	B1	50	ARG
48	B1	56	LEU
48	B1	58	VAL
48	B1	64	ARG
48	B1	65	GLN
48	B1	66	ASN
49	B2	3	ARG
49	B2	5	LYS
49	B2	6	VAL
49	B2	12	PRO
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	35	ARG
49	B2	37	LEU
49	B2	41	PRO
49	B2	55	ARG
49	B2	59	VAL
50	B3	3	GLU
50	B3	11	PRO
50	B3	14	ILE
50	B3	16	CYS
50	B3	23	GLU
50	B3	24	THR
50	B3	27	THR
50	B3	29	PRO
50	B3	31	ILE
50	B3	32	TYR
50	B3	37	SER
50	B3	47	GLN
50	B3	49	PHE
50	B3	57	GLU

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Mol	Chain	Res	Type
50	B3	59	PHE
50	B3	60	GLN
50	B3	62	ARG
50	B3	68	ARG
51	B4	4	HIS
51	B4	9	LYS
51	B4	11	THR
51	B4	13	LYS
51	B4	15	ARG
51	B4	17	ASP
51	B4	20	ARG
51	B4	25	LEU
51	B4	26	THR
51	B4	30	LEU
51	B4	33	CYS
51	B4	36	CYS
51	B4	37	LYS
51	B4	39	MET
51	B4	43	HIS
51	B4	49	CYS
51	B4	51	TYR
51	B4	55	ARG
51	B4	59	GLU
52	B5	11	LEU
52	B5	13	CYS
52	B5	19	ARG
52	B5	21	TYR
52	B5	29	ASN
52	B5	30	THR
52	B5	31	PRO
52	B5	32	ASN
52	B5	33	LYS
52	B5	38	LYS
52	B5	40	CYS
52	B5	42	TRP
52	B5	43	CYS
52	B5	46	HIS
52	B5	51	GLU
52	B5	54	ILE
53	B6	3	ARG
53	B6	5	TRP
53	B6	6	GLN

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Mol	Chain	Res	Type
53	B6	8	ASN
53	B6	12	ARG
53	B6	19	ARG
53	B6	21	ARG
53	B6	24	THR
53	B6	34	ARG
53	B6	36	GLN
53	B6	41	ARG
53	B6	46	VAL
53	B6	48	LYS
54	B7	5	LYS
54	B7	8	LYS
54	B7	16	ILE
54	B7	33	ASN
54	B7	39	LYS
54	B7	42	ARG
54	B7	44	LYS
54	B7	50	LEU
54	B7	59	LYS
54	B7	62	LEU
55	B8	10	ILE
55	B8	12	ASP
55	B8	17	ILE
55	B8	19	ARG
55	B8	27	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (180) such sidechains are listed below:

Mol	Chain	Res	Type
4	AE	40	HIS
4	AE	78	GLN
4	AE	94	ASN
4	AE	135	GLN
4	AE	204	ASN
4	AE	224	GLN
5	AF	3	ASN
5	AF	6	HIS
5	AF	28	GLN
5	AF	102	ASN
5	AF	108	ASN
5	AF	110	ASN
5	AF	136	GLN

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Mol	Chain	Res	Type
5	AF	139	GLN
5	AF	170	GLN
6	AG	42	GLN
6	AG	62	GLN
6	AG	74	GLN
6	AG	77	ASN
6	AG	154	ASN
6	AG	161	ASN
6	AG	201	GLN
7	AH	56	GLN
7	AH	65	ASN
7	AH	72	GLN
7	AH	78	HIS
8	AI	7	ASN
8	AI	13	ASN
8	AI	18	GLN
8	AI	32	ASN
8	AI	64	GLN
8	AI	84	ASN
8	AI	100	ASN
9	AJ	56	GLN
9	AJ	68	ASN
9	AJ	96	GLN
9	AJ	97	GLN
9	AJ	106	GLN
9	AJ	109	ASN
9	AJ	110	GLN
9	AJ	148	ASN
9	AJ	153	HIS
10	AK	15	ASN
10	AK	70	GLN
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
12	AM	56	HIS
12	AM	62	HIS
12	AM	68	HIS
12	AM	76	ASN

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Mol	Chain	Res	Type
12	AM	78	ASN
13	AN	26	ASN
13	AN	27	ASN
13	AN	38	ASN
13	AN	104	GLN
13	AN	117	ASN
14	AO	8	ASN
14	AO	49	ASN
14	AO	99	HIS
15	AP	12	ASN
15	AP	40	ASN
15	AP	92	HIS
16	AQ	52	GLN
17	AR	9	GLN
17	AR	13	GLN
17	AR	37	ASN
17	AR	62	GLN
18	AS	82	GLN
19	AT	93	GLN
21	AV	14	HIS
22	AW	16	HIS
22	AW	42	GLN
22	AW	45	GLN
22	AW	73	HIS
22	AW	75	ASN
26	BC	56	GLN
26	BC	148	ASN
26	BC	165	ASN
26	BC	188	ASN
27	BD	45	ASN
27	BD	87	ASN
27	BD	115	GLN
27	BD	166	GLN
27	BD	198	ASN
27	BD	201	HIS
28	BE	35	GLN
28	BE	55	ASN
28	BE	85	ASN
28	BE	121	ASN
28	BE	129	HIS
28	BE	169	ASN
29	BF	67	GLN

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Mol	Chain	Res	Type
29	BF	133	ASN
29	BF	169	ASN
30	BG	26	GLN
30	BG	40	ASN
30	BG	41	GLN
30	BG	123	ASN
30	BG	130	ASN
31	BH	74	ASN
31	BH	143	GLN
32	BK	28	ASN
32	BK	105	HIS
32	BK	139	GLN
33	BL	11	GLN
33	BL	29	GLN
33	BL	30	HIS
33	BL	42	ASN
33	BL	47	ASN
33	BL	116	ASN
34	BM	38	HIS
34	BM	94	HIS
35	BN	5	GLN
35	BN	89	ASN
35	BN	90	GLN
36	BO	13	ASN
36	BO	35	HIS
36	BO	38	GLN
36	BO	68	GLN
36	BO	81	GLN
36	BO	84	ASN
37	BP	12	GLN
37	BP	57	HIS
37	BP	89	ASN
38	BQ	24	GLN
38	BQ	31	HIS
39	BR	38	GLN
39	BR	84	GLN
40	BS	55	ASN
40	BS	58	ASN
41	BT	44	ASN
41	BT	71	GLN
41	BT	94	ASN
41	BT	117	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	BU	11	GLN
42	BU	87	HIS
42	BU	89	GLN
43	BV	34	ASN
43	BV	61	ASN
43	BV	62	HIS
43	BV	102	HIS
44	BW	31	HIS
44	BW	55	ASN
44	BW	82	GLN
44	BW	87	GLN
45	BX	6	HIS
45	BX	43	ASN
46	BY	32	HIS
46	BY	34	ASN
46	BY	75	ASN
46	BY	118	GLN
47	BZ	3	HIS
47	BZ	35	ASN
47	BZ	80	HIS
48	B1	33	GLN
48	B1	41	GLN
48	B1	51	GLN
48	B1	65	GLN
49	B2	32	GLN
50	B3	46	GLN
51	B4	23	HIS
52	B5	20	ASN
52	B5	26	ASN
52	B5	29	ASN
52	B5	32	ASN
53	B6	6	GLN
53	B6	8	ASN
53	B6	16	HIS
53	B6	36	GLN
54	B7	31	HIS
54	B7	33	ASN
54	B7	35	GLN
54	B7	43	GLN
55	B8	32	HIS
55	B8	36	GLN

## 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1515/1522 (99%)	463 (30%)	137 (9%)
2	A1	49/50 (98%)	21 (42%)	4 (8%)
24	BA	2888/2916 (99%)	1204 (41%)	253 (8%)
25	BB	122/123 (99%)	46 (37%)	3 (2%)
3	AB	75/76 (98%)	32 (42%)	1 (1%)
3	AC	75/76 (98%)	23 (30%)	4 (5%)
3	AD	75/76 (98%)	23 (30%)	1 (1%)
All	All	4799/4839 (99%)	1812 (37%)	403 (8%)

All (1812) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	14	U
1	AA	19	C
1	AA	20	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	44	G
1	AA	45	U
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	52	G
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	78	G
1	AA	82	U
1	AA	89	U
1	AA	101	A
1	AA	103	C
1	AA	108	G
1	AA	110	C
1	AA	115	G
1	AA	116	A
1	AA	120	A
1	AA	121	C

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Mol	Chain	Res	Type
1	AA	122	G
1	AA	124	G
1	AA	127	G
1	AA	129(A)	G
1	AA	130	A
1	AA	131	C
1	AA	132	C
1	AA	134	A
1	AA	163	C
1	AA	182	U
1	AA	188	U
1	AA	189	U
1	AA	190	G
1	AA	191(A)	G
1	AA	195	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	243	A
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	262	A
1	AA	264	U
1	AA	265	G
1	AA	266	G
1	AA	267	C
1	AA	270	A
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	295	C

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Mol	Chain	Res	Type
1	AA	296	U
1	AA	306	G
1	AA	308	C
1	AA	309	G
1	AA	313	A
1	AA	314	C
1	AA	315	A
1	AA	316	G
1	AA	326	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	336	C
1	AA	345	C
1	AA	346	G
1	AA	348	G
1	AA	351	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	364	A
1	AA	367	U
1	AA	368	U
1	AA	372	C
1	AA	373	A
1	AA	378	G
1	AA	379	C
1	AA	382	A
1	AA	383	A
1	AA	388	G
1	AA	389	A
1	AA	390	C
1	AA	392	G
1	AA	397	A
1	AA	398	C
1	AA	410	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G

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Mol	Chain	Res	Type
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	438	G
1	AA	439	A
1	AA	451	A
1	AA	452	A
1	AA	454	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
1	AA	487	A
1	AA	496	A
1	AA	497	U
1	AA	500	G
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	521	G
1	AA	522	C
1	AA	524	G
1	AA	527	G
1	AA	528	C
1	AA	530	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	541	G
1	AA	548	G
1	AA	553	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	555	C
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	563	A
1	AA	565	U
1	AA	566	G
1	AA	567	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	577	G
1	AA	579	G
1	AA	585	G
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	650	G
1	AA	653	A
1	AA	655	A
1	AA	665	A
1	AA	672	U
1	AA	673	G
1	AA	679	C
1	AA	687	A
1	AA	688	G
1	AA	690	G
1	AA	691	G
1	AA	693	G
1	AA	694	A
1	AA	697	U
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	723	U

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Mol	Chain	Res	Type
1	AA	724	G
1	AA	728	A
1	AA	730	G
1	AA	731	G
1	AA	733	A
1	AA	749	C
1	AA	752	G
1	AA	753	A
1	AA	754	C
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
1	AA	790	A
1	AA	791	G
1	AA	793	U
1	AA	794	A
1	AA	801	U
1	AA	812	C
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	828	A
1	AA	841	U
1	AA	843	U
1	AA	848	C
1	AA	854	G
1	AA	860	A
1	AA	865	A
1	AA	870	U
1	AA	871	U
1	AA	872	A

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Mol	Chain	Res	Type
1	AA	873	A
1	AA	874	G
1	AA	884	U
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	891	U
1	AA	901	A
1	AA	902	G
1	AA	907	A
1	AA	910	C
1	AA	913	A
1	AA	914	A
1	AA	917	G
1	AA	919	A
1	AA	920	U
1	AA	926	G
1	AA	927	G
1	AA	932	C
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	949	A
1	AA	950	U
1	AA	956	U
1	AA	958	A
1	AA	960	U
1	AA	961	U
1	AA	963	G
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	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	980	C
1	AA	982	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AA	991	U
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	997	U
1	AA	998	G
1	AA	1000	A
1	AA	1001	G
1	AA	1002	G
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1006	C
1	AA	1007	C
1	AA	1016	A
1	AA	1023	G
1	AA	1024	G
1	AA	1026	G
1	AA	1027	C
1	AA	1029	G
1	AA	1049	U
1	AA	1050	G
1	AA	1054	C
1	AA	1056	U
1	AA	1057	G
1	AA	1063	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1081	G
1	AA	1084	G
1	AA	1085	U
1	AA	1086	U
1	AA	1089	G
1	AA	1094	G
1	AA	1096	C
1	AA	1097	C
1	AA	1100	C
1	AA	1101	A
1	AA	1102	A

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Mol	Chain	Res	Type
1	AA	1103	C
1	AA	1118	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	1132	C
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	1147	C
1	AA	1148	U
1	AA	1152	A
1	AA	1156	G
1	AA	1157	A
1	AA	1158	C
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1174	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	1195	C
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1203	C
1	AA	1211	U
1	AA	1212	U
1	AA	1213	A

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Mol	Chain	Res	Type
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1229	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1263	C
1	AA	1269	A
1	AA	1270	C
1	AA	1278	U
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1283	G
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1289	A
1	AA	1292	U
1	AA	1297	C
1	AA	1298	C
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1317	C
1	AA	1318	A
1	AA	1319	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1332	A
1	AA	1333	A
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G

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Mol	Chain	Res	Type
1	AA	1348	U
1	AA	1353	G
1	AA	1362(A)	C
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1375	A
1	AA	1378	C
1	AA	1379	G
1	AA	1381	U
1	AA	1393	U
1	AA	1394	A
1	AA	1395	C
1	AA	1396	A
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1400	C
1	AA	1401	G
1	AA	1404	C
1	AA	1413	A
1	AA	1419	G
1	AA	1430	C
1	AA	1431	C
1	AA	1432	G
1	AA	1435	G
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	1451	A
1	AA	1454	G
1	AA	1466	C
1	AA	1467	G
1	AA	1469	G
1	AA	1481	U
1	AA	1484	C
1	AA	1492	A
1	AA	1493	A

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Mol	Chain	Res	Type
1	AA	1494	G
1	AA	1495	U
1	AA	1498	U
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1520	G
1	AA	1527	C
1	AA	1530	G
1	AA	1531	A
1	AA	1532	U
1	AA	1534	A
2	A1	5	U
2	A1	9	U
2	A1	13	U
2	A1	17	U
2	A1	18	U
2	A1	19	U
2	A1	20	G
2	A1	21	G
2	A1	26	G
2	A1	27	A
2	A1	30	U
2	A1	34	U
2	A1	36	U
2	A1	37	U
2	A1	38	U
2	A1	40	U
2	A1	45	U
2	A1	47	U
2	A1	48	U
2	A1	51	U
2	A1	52	U
3	AC	6	G
3	AC	8	U
3	AC	10	G
3	AC	15	G
3	AC	17	C
3	AC	18	G
3	AC	19	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AC	20	U
3	AC	40	C
3	AC	41	C
3	AC	43	C
3	AC	46	G
3	AC	47	U
3	AC	48	C
3	AC	49	C
3	AC	58	A
3	AC	59	U
3	AC	60	U
3	AC	61	C
3	AC	64	A
3	AC	74	C
3	AC	75	C
3	AC	76	A
3	AD	10	G
3	AD	13	C
3	AD	17	C
3	AD	18	G
3	AD	19	G
3	AD	27	G
3	AD	34	G
3	AD	35	A
3	AD	36	A
3	AD	40	C
3	AD	41	C
3	AD	42	C
3	AD	45	U
3	AD	46	G
3	AD	48	C
3	AD	49	C
3	AD	52	G
3	AD	56	C
3	AD	58	A
3	AD	59	U
3	AD	61	C
3	AD	74	C
3	AD	76	A
3	AB	2	C
3	AB	3	C
3	AB	4	C

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Mol	Chain	Res	Type
3	AB	6	G
3	AB	8	U
3	AB	9	A
3	AB	10	G
3	AB	12	U
3	AB	14	A
3	AB	15	G
3	AB	16	U
3	AB	19	G
3	AB	20	U
3	AB	21	A
3	AB	22	G
3	AB	25	C
3	AB	34	G
3	AB	36	A
3	AB	37	A
3	AB	41	C
3	AB	43	C
3	AB	47	U
3	AB	48	C
3	AB	49	C
3	AB	55	U
3	AB	57	G
3	AB	58	A
3	AB	59	U
3	AB	61	C
3	AB	62	C
3	AB	68	C
3	AB	74	C
24	BA	13	A
24	BA	14	A
24	BA	15	G
24	BA	20	C
24	BA	26	G
24	BA	29	U
24	BA	34	C
24	BA	35	G
24	BA	46	C
24	BA	49	A
24	BA	50	U
24	BA	52	A
24	BA	60	G

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Mol	Chain	Res	Type
24	BA	61	G
24	BA	63	U
24	BA	64	A
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	76	C
24	BA	77	C
24	BA	82	G
24	BA	84	A
24	BA	88	G
24	BA	90	U
24	BA	91	A
24	BA	92	G
24	BA	96	G
24	BA	101	G
24	BA	102	G
24	BA	104	U
24	BA	105	C
24	BA	109	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	136	G
24	BA	138	G
24	BA	139	G
24	BA	140	A
24	BA	141(A)	C
24	BA	147	U
24	BA	149	A
24	BA	161	U
24	BA	163	U
24	BA	164	U

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Mol	Chain	Res	Type
24	BA	171	G
24	BA	178	G
24	BA	180	G
24	BA	181	A
24	BA	182	A
24	BA	192	C
24	BA	193	U
24	BA	196	A
24	BA	197	A
24	BA	199	A
24	BA	200	U
24	BA	201	C
24	BA	204	A
24	BA	205	G
24	BA	206	U
24	BA	216	A
24	BA	218	A
24	BA	221	A
24	BA	222	A
24	BA	223	A
24	BA	228	A
24	BA	229	A
24	BA	230	U
24	BA	232	G
24	BA	233	A
24	BA	234	C
24	BA	241	A
24	BA	242	G
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	254	G
24	BA	264	C
24	BA	265	A
24	BA	266	G
24	BA	270	A
24	BA	270(A)	A

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Mol	Chain	Res	Type
24	BA	270(B)	A
24	BA	270(C)	C
24	BA	270(E)	G
24	BA	270(G)	C
24	BA	270(K)	C
24	BA	270(L)	U
24	BA	270(M)	U
24	BA	270(N)	G
24	BA	270(V)	G
24	BA	270(Z)	U
24	BA	271(A)	C
24	BA	271(B)	G
24	BA	271(C)	U
24	BA	271	G
24	BA	272	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	289	A
24	BA	290	G
24	BA	293	U
24	BA	300	A
24	BA	302	C
24	BA	310	A
24	BA	311	A
24	BA	312	G
24	BA	316	C
24	BA	322	A
24	BA	323	G
24	BA	324	A
24	BA	329	G
24	BA	330	A

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Mol	Chain	Res	Type
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	363(A)	A
24	BA	363(B)	G
24	BA	364	C
24	BA	365	C
24	BA	366	C
24	BA	370	G
24	BA	372	G
24	BA	373	U
24	BA	374	A
24	BA	377	C
24	BA	382	G
24	BA	386	G
24	BA	387	U
24	BA	388	G
24	BA	390	A
24	BA	391	G
24	BA	395	U
24	BA	397	G
24	BA	401	A
24	BA	404	C
24	BA	405	U
24	BA	406	G
24	BA	408	G
24	BA	411	G
24	BA	412	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	413	C
24	BA	421	U
24	BA	422	A
24	BA	423	A
24	BA	424	G
24	BA	428	A
24	BA	429	A
24	BA	443	A
24	BA	444	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	470	A
24	BA	471	A
24	BA	475	U
24	BA	479	A
24	BA	480	A
24	BA	481	G
24	BA	484	C
24	BA	492	A
24	BA	503	A
24	BA	504	U
24	BA	505	A
24	BA	506	G
24	BA	507	A
24	BA	508	G
24	BA	509	C
24	BA	510	C
24	BA	512	G
24	BA	519	U
24	BA	525	U
24	BA	527	C
24	BA	528	A
24	BA	529	A
24	BA	530	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	531	C
24	BA	532	A
24	BA	533	G
24	BA	541	C
24	BA	549	G
24	BA	554	U
24	BA	556	G
24	BA	559	G
24	BA	560	C
24	BA	563	G
24	BA	567	A
24	BA	568	U
24	BA	572	A
24	BA	573	G
24	BA	574	C
24	BA	575	A
24	BA	579	G
24	BA	580	C
24	BA	583	G
24	BA	586	A
24	BA	588	U
24	BA	591	C
24	BA	593	G
24	BA	599	G
24	BA	600	G
24	BA	601	C
24	BA	603	A
24	BA	604	G
24	BA	605	C
24	BA	607	U
24	BA	612	G
24	BA	613	U
24	BA	614	U
24	BA	615	G
24	BA	616	A
24	BA	617	G
24	BA	618(A)	C
24	BA	620	G
24	BA	621	A
24	BA	622	G
24	BA	624	C
24	BA	625	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	626	U
24	BA	627	A
24	BA	629	G
24	BA	631	A
24	BA	634	C
24	BA	637	A
24	BA	641	C
24	BA	643	A
24	BA	644	A
24	BA	646	A
24	BA	650	C
24	BA	651	G
24	BA	653	A
24	BA	654	A
24	BA	655	A
24	BA	656	G
24	BA	657	U
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	674	G
24	BA	684	G
24	BA	686	G
24	BA	687	C
24	BA	698	C
24	BA	704	G
24	BA	705	A
24	BA	713	G
24	BA	714	U
24	BA	715	G
24	BA	716	A
24	BA	718	A
24	BA	723	G
24	BA	727	A
24	BA	728	G
24	BA	729	G
24	BA	730	C
24	BA	731	C
24	BA	734	A

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Mol	Chain	Res	Type
24	BA	735	A
24	BA	736	C
24	BA	739	G
24	BA	740	U
24	BA	741	G
24	BA	744	G
24	BA	745	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	758	C
24	BA	759	G
24	BA	762	U
24	BA	763	G
24	BA	764	A
24	BA	765	G
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	789	A
24	BA	790	C
24	BA	791	C
24	BA	792	G
24	BA	793	A
24	BA	794	G
24	BA	799	G
24	BA	800	A
24	BA	801	G
24	BA	802	A
24	BA	803	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	805	G
24	BA	806	C
24	BA	812	C
24	BA	816	C
24	BA	819	A
24	BA	821	A
24	BA	823	G
24	BA	824	A
24	BA	827	U
24	BA	829	A
24	BA	830	G
24	BA	831	G
24	BA	833	U
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	865	C
24	BA	868	U
24	BA	870	A
24	BA	881	G
24	BA	886	C
24	BA	887	A
24	BA	888	C
24	BA	889	C
24	BA	890	A
24	BA	892	G
24	BA	893	C
24	BA	896	A
24	BA	897	C
24	BA	898	C
24	BA	899	A
24	BA	906	G
24	BA	907	U
24	BA	909	A
24	BA	910	A
24	BA	914	C
24	BA	918	A
24	BA	919	G

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Mol	Chain	Res	Type
24	BA	920	G
24	BA	930	U
24	BA	931	G
24	BA	932	G
24	BA	933	A
24	BA	939	G
24	BA	941	A
24	BA	943	U
24	BA	944	G
24	BA	945	A
24	BA	946	G
24	BA	956	G
24	BA	957	A
24	BA	958	U
24	BA	959	A
24	BA	961	C
24	BA	962	G
24	BA	965	C
24	BA	972	G
24	BA	973	A
24	BA	974	G
24	BA	974(A)	C
24	BA	976	C
24	BA	982	C
24	BA	983	A
24	BA	987	G
24	BA	990	A
24	BA	995	C
24	BA	996	A
24	BA	997	G
24	BA	1008	C
24	BA	1009	A
24	BA	1011	G
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

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Mol	Chain	Res	Type
24	BA	1031	G
24	BA	1032	A
24	BA	1033	U
24	BA	1034	G
24	BA	1039	G
24	BA	1044	G
24	BA	1045	A
24	BA	1046	A
24	BA	1047	G
24	BA	1056	G
24	BA	1060	U
24	BA	1061	U
24	BA	1062	G
24	BA	1064	C
24	BA	1065	U
24	BA	1066	U
24	BA	1067	A
24	BA	1069	A
24	BA	1070	A
24	BA	1071	G
24	BA	1072	C
24	BA	1073	A
24	BA	1076	C
24	BA	1077	A
24	BA	1079	C
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	1099	G
24	BA	1101	U
24	BA	1103	A
24	BA	1104	C
24	BA	1106	G
24	BA	1110	G
24	BA	1111	A
24	BA	1112	G
24	BA	1113	U
24	BA	1116	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1126	A
24	BA	1127	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	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	1185	C
24	BA	1186	G
24	BA	1190	G
24	BA	1199	U
24	BA	1201	C
24	BA	1203	G
24	BA	1204	A
24	BA	1205	U
24	BA	1207	C
24	BA	1209	G
24	BA	1211	U
24	BA	1212	G
24	BA	1213	A
24	BA	1220	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1221	C
24	BA	1222	C
24	BA	1225	C
24	BA	1228	G
24	BA	1238	G
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	1255	U
24	BA	1256	G
24	BA	1258	C
24	BA	1260	G
24	BA	1264	G
24	BA	1265	A
24	BA	1266	G
24	BA	1267	U
24	BA	1268	A
24	BA	1271	G
24	BA	1272	A
24	BA	1273	U
24	BA	1274	A
24	BA	1275	A
24	BA	1286	A
24	BA	1289	C
24	BA	1296	G
24	BA	1297	C
24	BA	1301	A
24	BA	1302	A
24	BA	1303	G
24	BA	1304	C
24	BA	1311	G
24	BA	1312	U
24	BA	1321	A
24	BA	1324	G
24	BA	1325	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1326	U
24	BA	1327	C
24	BA	1329	U
24	BA	1330	C
24	BA	1335	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	1364	G
24	BA	1365	A
24	BA	1366	A
24	BA	1368	G
24	BA	1378	A
24	BA	1379	A
24	BA	1388	G
24	BA	1394	U
24	BA	1395	A
24	BA	1397	U
24	BA	1398	C
24	BA	1403	C
24	BA	1407	C
24	BA	1416	G
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	1438	U
24	BA	1444(A)	A
24	BA	1445	C
24	BA	1451	C
24	BA	1453	A
24	BA	1455	G

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Mol	Chain	Res	Type
24	BA	1456	G
24	BA	1459	G
24	BA	1460	A
24	BA	1462	C
24	BA	1463	C
24	BA	1467	C
24	BA	1468	C
24	BA	1471	A
24	BA	1477	A
24	BA	1478	G
24	BA	1480	G
24	BA	1482	U
24	BA	1485	G
24	BA	1489	U
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
24	BA	1509	C
24	BA	1510	A
24	BA	1511	A
24	BA	1512	G
24	BA	1513	C
24	BA	1514	U
24	BA	1515	C
24	BA	1516	U
24	BA	1517	G
24	BA	1519	G
24	BA	1521	G
24	BA	1526	G
24	BA	1527	G
24	BA	1529	A
24	BA	1530	G
24	BA	1532	C

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Mol	Chain	Res	Type
24	BA	1537	C
24	BA	1540	G
24	BA	1542	G
24	BA	1544	C
24	BA	1552	G
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	1569	A
24	BA	1570	A
24	BA	1571	A
24	BA	1572	A
24	BA	1573	G
24	BA	1576	U
24	BA	1577	C
24	BA	1578	U
24	BA	1579	A
24	BA	1580	A
24	BA	1581	G
24	BA	1583	A
24	BA	1585	C
24	BA	1586	A
24	BA	1587	A
24	BA	1591	G
24	BA	1602	U
24	BA	1603	A
24	BA	1607	C
24	BA	1608	A
24	BA	1609	A
24	BA	1610	A
24	BA	1612	C
24	BA	1614	A
24	BA	1615	C
24	BA	1617	C
24	BA	1618	A
24	BA	1619	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1623	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	1640	C
24	BA	1641	A
24	BA	1644	C
24	BA	1645	G
24	BA	1647	G
24	BA	1648	C
24	BA	1649	G
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	1664	A
24	BA	1667	G
24	BA	1668	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	1683	C
24	BA	1684	C
24	BA	1688	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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1709	U
24	BA	1710	C
24	BA	1725	G
24	BA	1728	G
24	BA	1729	A
24	BA	1731	G
24	BA	1732	A
24	BA	1733	G
24	BA	1734	C
24	BA	1741	C
24	BA	1742	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	1773	A
24	BA	1775	U
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	1790	C
24	BA	1791	A
24	BA	1798	U
24	BA	1799	G
24	BA	1800	C
24	BA	1801	G
24	BA	1802	A
24	BA	1803	A
24	BA	1805	U
24	BA	1809	A
24	BA	1810	A
24	BA	1815	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1816	G
24	BA	1817	G
24	BA	1819	A
24	BA	1820	U
24	BA	1821	A
24	BA	1826	G
24	BA	1828	G
24	BA	1829	A
24	BA	1834	U
24	BA	1839	G
24	BA	1840	G
24	BA	1847	A
24	BA	1848	A
24	BA	1852	C
24	BA	1853	A
24	BA	1857	G
24	BA	1858	G
24	BA	1878	G
24	BA	1880	C
24	BA	1881	C
24	BA	1884	A
24	BA	1901	A
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	1919	A
24	BA	1920	C
24	BA	1923	U
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	1942	C
24	BA	1943	U
24	BA	1944	U
24	BA	1945	G
24	BA	1946	U
24	BA	1953	A
24	BA	1954	G
24	BA	1955	U
24	BA	1956	U
24	BA	1958	C
24	BA	1962	C
24	BA	1964	G
24	BA	1965	C
24	BA	1966	A
24	BA	1967	C
24	BA	1968	G
24	BA	1970	A
24	BA	1971	A
24	BA	1972	A
24	BA	1977	A
24	BA	1978	A
24	BA	1981	A
24	BA	1982	C
24	BA	1989	G
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	2005	A
24	BA	2014	A
24	BA	2015	A
24	BA	2016	U
24	BA	2018	G
24	BA	2019	A
24	BA	2020	A
24	BA	2021	C
24	BA	2022	U
24	BA	2023	G
24	BA	2030	A
24	BA	2031	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	2032	G
24	BA	2033	A
24	BA	2034	U
24	BA	2035	G
24	BA	2041	U
24	BA	2043	C
24	BA	2044	C
24	BA	2048	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
24	BA	2068	U
24	BA	2069	G
24	BA	2073	C
24	BA	2074	U
24	BA	2075	U
24	BA	2076	U
24	BA	2077	A
24	BA	2080	G
24	BA	2092	U
24	BA	2093	G
24	BA	2094	G
24	BA	2110	G
24	BA	2111	C
24	BA	2114	A
24	BA	2116	G
24	BA	2117	A
24	BA	2119	A
24	BA	2120	G
24	BA	2123	G
24	BA	2126	A
24	BA	2127	G
24	BA	2132	U
24	BA	2133	G
24	BA	2134	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	2135	A
24	BA	2136	C
24	BA	2144	U
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	2185	C
24	BA	2194	G
24	BA	2195	C
24	BA	2196	C
24	BA	2197	U
24	BA	2198	A
24	BA	2205	C
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	2224	G
24	BA	2225	A
24	BA	2226	C
24	BA	2227	A
24	BA	2228	G
24	BA	2238	G
24	BA	2239	G
24	BA	2240	C
24	BA	2245	U
24	BA	2250	G
24	BA	2251	G
24	BA	2254	C
24	BA	2257	U
24	BA	2258	C
24	BA	2265	U
24	BA	2266	A
24	BA	2267	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	2268	A
24	BA	2269	A
24	BA	2274	A
24	BA	2275	C
24	BA	2276	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
24	BA	2291	U
24	BA	2297	C
24	BA	2305	A
24	BA	2306	C
24	BA	2307	G
24	BA	2308	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	2323	G
24	BA	2325	G
24	BA	2327	A
24	BA	2333	A
24	BA	2334	G
24	BA	2337	G
24	BA	2344	U
24	BA	2345	G
24	BA	2346	A
24	BA	2347	C
24	BA	2349	G
24	BA	2350	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	2351	G
24	BA	2356	C
24	BA	2357	U
24	BA	2358	G
24	BA	2360	A
24	BA	2361	A
24	BA	2362	G
24	BA	2372	G
24	BA	2373	G
24	BA	2374	C
24	BA	2377	A
24	BA	2379	G
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	2406	U
24	BA	2407	G
24	BA	2416	C
24	BA	2417	C
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

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Mol	Chain	Res	Type
24	BA	2441	C
24	BA	2444	G
24	BA	2445	G
24	BA	2447	G
24	BA	2448	A
24	BA	2449	U
24	BA	2460	U
24	BA	2469	A
24	BA	2475	C
24	BA	2476	A
24	BA	2480	C
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	2500	U
24	BA	2501	C
24	BA	2502	G
24	BA	2503	A
24	BA	2504	U
24	BA	2505	G
24	BA	2510	C
24	BA	2513	G
24	BA	2518	A
24	BA	2519	U
24	BA	2520	C
24	BA	2523	G
24	BA	2526	G
24	BA	2527	C
24	BA	2529	G
24	BA	2531	A
24	BA	2532	G
24	BA	2535	G
24	BA	2539	C
24	BA	2542	A
24	BA	2543	G
24	BA	2547	U
24	BA	2548	G

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Mol	Chain	Res	Type
24	BA	2551	C
24	BA	2554	U
24	BA	2555	U
24	BA	2556	C
24	BA	2563	U
24	BA	2566	A
24	BA	2567	G
24	BA	2572	A
24	BA	2573	C
24	BA	2575	C
24	BA	2576	G
24	BA	2577	A
24	BA	2578	G
24	BA	2580	U
24	BA	2582	G
24	BA	2585	U
24	BA	2586	C
24	BA	2593	U
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	2613	U
24	BA	2614	A
24	BA	2615	U
24	BA	2616	C
24	BA	2617	C
24	BA	2620	C
24	BA	2625	G
24	BA	2626	C
24	BA	2628	C
24	BA	2629	A
24	BA	2630	G
24	BA	2637	U
24	BA	2638	G
24	BA	2640	G
24	BA	2644	G
24	BA	2645	G
24	BA	2646	C
24	BA	2654	A

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Mol	Chain	Res	Type
24	BA	2655	G
24	BA	2661	G
24	BA	2663	G
24	BA	2664	G
24	BA	2666	C
24	BA	2682	U
24	BA	2683	C
24	BA	2685	G
24	BA	2689	U
24	BA	2690	C
24	BA	2691	C
24	BA	2699	C
24	BA	2701	C
24	BA	2702	U
24	BA	2704	C
24	BA	2706	G
24	BA	2708	G
24	BA	2710	C
24	BA	2711	A
24	BA	2712	U
24	BA	2712(A)	A
24	BA	2714	G
24	BA	2719	G
24	BA	2720	U
24	BA	2725	A
24	BA	2726	U
24	BA	2727	G
24	BA	2732	G
24	BA	2733	A
24	BA	2734	A
24	BA	2748	A
24	BA	2749	A
24	BA	2750	A
24	BA	2751	G
24	BA	2754	U
24	BA	2756	U
24	BA	2757	A
24	BA	2758	A
24	BA	2766	G
24	BA	2772	C
24	BA	2777	G
24	BA	2778	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	2790	A
24	BA	2791	C
24	BA	2795	G
24	BA	2797	U
24	BA	2798	C
24	BA	2799	A
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	2812	G
24	BA	2814	C
24	BA	2815	C
24	BA	2820	A
24	BA	2821	A
24	BA	2822	G
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	2843	G
24	BA	2844	G
24	BA	2845	G
24	BA	2847	U
24	BA	2849	U
24	BA	2850	A
24	BA	2851	A
24	BA	2852	G
24	BA	2858	C
24	BA	2861	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	2866	U
24	BA	2867	G
24	BA	2868	A
24	BA	2872	G
24	BA	2874	C
24	BA	2877	G
24	BA	2878	U
24	BA	2879	C
24	BA	2880	C
24	BA	2883	A
24	BA	2891	G
24	BA	2892	A
24	BA	2893	G
24	BA	2894	G
24	BA	2899	G
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	8	U
25	BB	12	C
25	BB	13	A
25	BB	15	A
25	BB	16	G
25	BB	25	A
25	BB	32	C
25	BB	35	U
25	BB	36	C
25	BB	41	U
25	BB	42	C
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	66	A
25	BB	67	G
25	BB	69	G
25	BB	73	A

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Mol	Chain	Res	Type
25	BB	74	U
25	BB	75	G
25	BB	83	G
25	BB	85	G
25	BB	87	G
25	BB	88	C
25	BB	89	G
25	BB	90	C
25	BB	99	A
25	BB	101	A
25	BB	103	U
25	BB	105	G
25	BB	109	G
25	BB	111	U
25	BB	116	G
25	BB	117	G
25	BB	118	G
25	BB	119	A
25	BB	120	U

All (403) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	8	A
1	AA	30	U
1	AA	31	G
1	AA	47	C
1	AA	51	A
1	AA	60	A
1	AA	65	U
1	AA	88	C
1	AA	99	C
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	129(A)	G
1	AA	181	G
1	AA	190	G
1	AA	208	U
1	AA	210	U
1	AA	243	A

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Mol	Chain	Res	Type
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	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
1	AA	372	C
1	AA	413	G
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	518	C
1	AA	531	U
1	AA	535	A
1	AA	547	A
1	AA	559	A
1	AA	560	U
1	AA	562	C
1	AA	563	A
1	AA	566	G
1	AA	576	G
1	AA	652	U
1	AA	686	U
1	AA	687	A

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Mol	Chain	Res	Type
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	748	C
1	AA	753	A
1	AA	781	A
1	AA	792	A
1	AA	793	U
1	AA	812	C
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	871	U
1	AA	872	A
1	AA	873	A
1	AA	889	A
1	AA	890	G
1	AA	901	A
1	AA	913	A
1	AA	918	A
1	AA	960	U
1	AA	965	A
1	AA	968	A
1	AA	974	A
1	AA	975	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	1084	G
1	AA	1085	U
1	AA	1101	A
1	AA	1129	C

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Mol	Chain	Res	Type
1	AA	1145	C
1	AA	1159	U
1	AA	1182	G
1	AA	1183	A
1	AA	1196	U
1	AA	1212	U
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C
1	AA	1239	A
1	AA	1240	U
1	AA	1285	A
1	AA	1297	C
1	AA	1300	G
1	AA	1302	U
1	AA	1322	C
1	AA	1331	G
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1363	A
1	AA	1364	U
1	AA	1377	A
1	AA	1394	A
1	AA	1399	C
1	AA	1400	C
1	AA	1446	A
1	AA	1468	A
1	AA	1502	A
1	AA	1504	G
1	AA	1505	G
1	AA	1528	U
1	AA	1529	G
1	AA	1531	A
2	A1	17	U
2	A1	36	U
2	A1	50	U
2	A1	51	U
3	AC	7	A
3	AC	9	A
3	AC	58	A
3	AC	73	A

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Mol	Chain	Res	Type
3	AD	58	A
3	AB	58	A
24	BA	13	A
24	BA	60	G
24	BA	67	U
24	BA	70	G
24	BA	71	A
24	BA	83	G
24	BA	90	U
24	BA	119	A
24	BA	125	G
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	270(B)	A
24	BA	270(L)	U
24	BA	270(M)	U
24	BA	270(Z)	U
24	BA	271(B)	G
24	BA	280	C
24	BA	283	A
24	BA	311	A
24	BA	323	G
24	BA	329	G
24	BA	331	A
24	BA	332	A
24	BA	351	G
24	BA	371	A
24	BA	403	U
24	BA	442	G
24	BA	455	C
24	BA	470	A
24	BA	503	A
24	BA	504	U
24	BA	506	G
24	BA	508	G
24	BA	526	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	530	G
24	BA	559	G
24	BA	573	G
24	BA	574	C
24	BA	587	C
24	BA	602	G
24	BA	616	A
24	BA	620	G
24	BA	637	A
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	730	C
24	BA	740	U
24	BA	745	G
24	BA	746	A
24	BA	747	U
24	BA	750	A
24	BA	762	U
24	BA	773	U
24	BA	774	A
24	BA	776	G
24	BA	782	A
24	BA	783	A
24	BA	785	G
24	BA	788	A
24	BA	789	A
24	BA	800	A
24	BA	801	G
24	BA	811	U
24	BA	829	A
24	BA	830	G
24	BA	846	C
24	BA	858	U
24	BA	930	U
24	BA	944	G
24	BA	945	A
24	BA	957	A
24	BA	958	U

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Mol	Chain	Res	Type
24	BA	960	A
24	BA	961	C
24	BA	973	A
24	BA	974(A)	C
24	BA	989	G
24	BA	1008	C
24	BA	1011	G
24	BA	1022	G
24	BA	1024	G
24	BA	1064	C
24	BA	1078	U
24	BA	1085	A
24	BA	1100	C
24	BA	1109	C
24	BA	1110	G
24	BA	1126	A
24	BA	1130	U
24	BA	1131	G
24	BA	1154	G
24	BA	1178	C
24	BA	1179	C
24	BA	1183	G
24	BA	1203	G
24	BA	1204	A
24	BA	1210	A
24	BA	1212	G
24	BA	1221	C
24	BA	1237	A
24	BA	1241	A
24	BA	1247	A
24	BA	1248	G
24	BA	1250	G
24	BA	1253	A
24	BA	1267	U
24	BA	1272	A
24	BA	1288	U
24	BA	1300	U
24	BA	1302	A
24	BA	1323	U
24	BA	1342	A
24	BA	1349	A
24	BA	1378	A

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Mol	Chain	Res	Type
24	BA	1379	A
24	BA	1406	U
24	BA	1420	U
24	BA	1427	A
24	BA	1428	C
24	BA	1444(A)	A
24	BA	1477	A
24	BA	1489	U
24	BA	1515	C
24	BA	1554	A
24	BA	1558	A
24	BA	1566	A
24	BA	1568	G
24	BA	1572	A
24	BA	1585	C
24	BA	1603	A
24	BA	1608	A
24	BA	1610	A
24	BA	1625	C
24	BA	1626	G
24	BA	1634	A
24	BA	1647	G
24	BA	1650	G
24	BA	1693	U
24	BA	1694	C
24	BA	1698	A
24	BA	1699	G
24	BA	1727	U
24	BA	1758	G
24	BA	1778	U
24	BA	1780	A
24	BA	1784	A
24	BA	1791	A
24	BA	1800	C
24	BA	1801	G
24	BA	1819	A
24	BA	1820	U
24	BA	1828	G
24	BA	1930	G
24	BA	1936	A
24	BA	1937	A
24	BA	1938	A

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Mol	Chain	Res	Type
24	BA	1940	U
24	BA	1943	U
24	BA	1962	C
24	BA	1964	G
24	BA	1966	A
24	BA	1970	A
24	BA	1977	A
24	BA	1980	G
24	BA	1981	A
24	BA	1992	G
24	BA	1996	C
24	BA	2017	U
24	BA	2021	C
24	BA	2022	U
24	BA	2030	A
24	BA	2032	G
24	BA	2033	A
24	BA	2047	U
24	BA	2049	G
24	BA	2051	A
24	BA	2055	C
24	BA	2073	C
24	BA	2076	U
24	BA	2110	G
24	BA	2111	C
24	BA	2118	U
24	BA	2126	A
24	BA	2157	G
24	BA	2158	A
24	BA	2171	A
24	BA	2172	U
24	BA	2210	G
24	BA	2213	U
24	BA	2225	A
24	BA	2240	C
24	BA	2275	C
24	BA	2282	G
24	BA	2319	G
24	BA	2324	C
24	BA	2345	G
24	BA	2350	C
24	BA	2384	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
24	BA	2392	A
24	BA	2416	C
24	BA	2422	A
24	BA	2427	C
24	BA	2428	G
24	BA	2436	G
24	BA	2439	A
24	BA	2447	G
24	BA	2490	G
24	BA	2491	U
24	BA	2497	A
24	BA	2500	U
24	BA	2501	C
24	BA	2503	A
24	BA	2517	C
24	BA	2519	U
24	BA	2542	A
24	BA	2571	C
24	BA	2572	A
24	BA	2602	A
24	BA	2609	U
24	BA	2610	C
24	BA	2613	U
24	BA	2615	U
24	BA	2637	U
24	BA	2654	A
24	BA	2688	U
24	BA	2689	U
24	BA	2690	C
24	BA	2705	A
24	BA	2707	G
24	BA	2726	U
24	BA	2755	C
24	BA	2756	U
24	BA	2776	A
24	BA	2777	G
24	BA	2778	A
24	BA	2790	A
24	BA	2799	A
24	BA	2835	A
24	BA	2848	G
24	BA	2849	U

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Mol	Chain	Res	Type
24	BA	2866	U
24	BA	2879	C
24	BA	2893	G
25	BB	7	G
25	BB	15	A
25	BB	56	G

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
24	BA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	AA	1515/1522 (99%)	-0.30	2 (0%) 95 95	145, 221, 302, 356	0
2	A1	50/50 (100%)	0.02	1 (2%) 68 62	200, 320, 348, 357	0
3	AB	76/76 (100%)	15.85	68 (89%) 0 1	288, 351, 370, 374	0
3	AC	76/76 (100%)	0.75	13 (17%) 2 6	167, 214, 260, 284	0
3	AD	76/76 (100%)	0.17	10 (13%) 4 8	222, 271, 293, 316	0
4	AE	234/256 (91%)	-1.03	0 100 100	189, 226, 271, 304	0
5	AF	206/239 (86%)	-0.19	11 (5%) 30 29	222, 244, 266, 277	0
6	AG	208/209 (99%)	-0.38	4 (1%) 70 64	168, 215, 233, 242	0
7	AH	150/162 (92%)	-0.71	0 100 100	174, 210, 235, 257	0
8	AI	101/101 (100%)	1.38	39 (38%) 0 3	191, 223, 236, 261	0
9	AJ	155/156 (99%)	0.72	23 (14%) 3 7	210, 240, 256, 275	0
10	AK	138/138 (100%)	-1.14	0 100 100	186, 208, 225, 232	0
11	AL	127/128 (99%)	-0.97	0 100 100	222, 261, 276, 287	0
12	AM	98/105 (93%)	-0.50	2 (2%) 68 62	230, 260, 274, 282	0
13	AN	119/129 (92%)	0.88	19 (15%) 3 7	193, 212, 245, 267	0
14	AO	124/132 (93%)	0.48	14 (11%) 7 10	179, 199, 233, 267	0
15	AP	125/126 (99%)	-0.77	0 100 100	223, 243, 272, 278	0
16	AQ	60/61 (98%)	-0.91	0 100 100	215, 248, 259, 263	0
17	AR	88/89 (98%)	-0.55	1 (1%) 82 78	186, 207, 231, 238	0
18	AS	83/88 (94%)	-0.97	0 100 100	180, 201, 226, 249	0
19	AT	104/105 (99%)	-0.49	2 (1%) 70 64	164, 193, 244, 277	0
20	AU	73/88 (82%)	-0.38	6 (8%) 14 16	184, 209, 258, 287	0
21	AV	80/93 (86%)	0.01	6 (7%) 17 19	226, 252, 266, 270	0
22	AW	99/106 (93%)	-0.18	8 (8%) 15 17	167, 195, 225, 241	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
23	AX	24/27 (88%)	-1.10	0 100 100	230, 249, 280, 288	0
24	BA	2889/2916 (99%)	-0.22	86 (2%) 54 47	129, 215, 297, 342	0
25	BB	123/123 (100%)	-0.48	0 100 100	199, 259, 293, 316	0
26	BC	228/229 (99%)	0.70	50 (21%) 1 5	250, 281, 300, 313	0
27	BD	272/276 (98%)	2.20	136 (50%) 0 3	130, 199, 221, 259	0
28	BE	206/206 (100%)	-0.53	3 (1%) 76 70	148, 186, 232, 269	0
29	BF	208/210 (99%)	-0.10	12 (5%) 26 25	164, 238, 263, 276	0
30	BG	182/182 (100%)	0.37	17 (9%) 11 14	212, 246, 268, 276	0
31	BH	174/180 (96%)	-0.90	0 100 100	196, 241, 260, 271	0
32	BK	148/148 (100%)	-0.87	0 100 100	202, 227, 249, 257	0
33	BL	138/147 (93%)	-0.36	4 (2%) 55 49	271, 298, 312, 327	0
34	BM	139/140 (99%)	-0.71	1 (0%) 89 85	167, 198, 224, 235	0
35	BN	122/122 (100%)	-0.23	0 100 100	148, 177, 209, 221	0
36	BO	145/150 (96%)	0.89	22 (15%) 3 7	166, 247, 276, 315	0
37	BP	136/141 (96%)	0.40	12 (8%) 12 15	166, 208, 234, 241	0
38	BQ	117/118 (99%)	-0.46	0 100 100	168, 192, 219, 226	0
39	BR	110/112 (98%)	-0.47	5 (4%) 37 34	186, 235, 263, 289	0
40	BS	117/146 (80%)	-0.07	3 (2%) 59 54	164, 194, 227, 242	0
41	BT	117/118 (99%)	-0.42	1 (0%) 85 81	183, 202, 220, 232	0
42	BU	101/101 (100%)	-0.24	3 (2%) 54 47	168, 225, 246, 257	0
43	BV	110/113 (97%)	0.35	12 (10%) 7 11	180, 209, 237, 248	0
44	BW	94/96 (97%)	0.33	7 (7%) 17 19	212, 232, 280, 288	0
45	BX	110/110 (100%)	-0.20	7 (6%) 23 22	221, 255, 287, 305	0
46	BY	180/206 (87%)	0.11	7 (3%) 43 39	208, 246, 268, 279	0
47	BZ	85/85 (100%)	0.55	10 (11%) 6 10	211, 229, 242, 271	0
48	B1	67/67 (100%)	-0.33	0 100 100	218, 243, 263, 268	0
49	B2	59/60 (98%)	0.10	2 (3%) 49 44	204, 224, 249, 259	0
50	B3	71/71 (100%)	0.43	9 (12%) 5 9	199, 223, 238, 246	0
51	B4	57/60 (95%)	-0.43	0 100 100	164, 209, 264, 289	0
52	B5	49/54 (90%)	1.92	23 (46%) 0 3	206, 232, 242, 252	0
53	B6	49/49 (100%)	1.81	22 (44%) 0 3	162, 209, 221, 235	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
54	B7	64/65 (98%)	1.06	12 (18%) 2 5	164, 195, 225, 242	0
55	B8	37/37 (100%)	-1.01	0 100 100	205, 215, 224, 226	0
All	All	10893/11176 (97%)	-0.01	695 (6%) 23 22	129, 223, 295, 374	0

All (695) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	AB	69	G	42.1
3	AB	67	C	37.1
3	AB	70	G	34.4
3	AB	68	C	34.1
3	AB	13	C	33.9
3	AB	19	G	33.4
3	AB	1	G	33.2
3	AB	47	U	32.4
3	AB	4	C	30.5
3	AB	46	G	29.7
3	AB	7	A	29.6
3	AB	49	C	28.1
3	AB	5	G	27.6
3	AB	8	U	27.2
3	AB	3	C	26.4
3	AB	71	G	26.4
3	AB	66	U	25.5
3	AB	20	U	23.8
3	AB	65	G	23.5
3	AB	22	G	22.8
3	AB	17	C	22.6
3	AB	21	A	22.0
3	AB	15	G	22.0
3	AB	2	C	21.7
3	AB	10	G	21.7
3	AB	9	A	21.4
3	AB	6	G	21.3
3	AB	73	A	21.2
3	AB	16	U	21.0
3	AB	45	U	20.8
3	AB	44	G	20.3
3	AB	50	U	20.0
3	AB	48	C	19.6
3	AB	14	A	18.9

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Mol	Chain	Res	Type	RSRZ
36	BO	123	LEU	18.7
3	AB	12	U	18.6
3	AB	57	G	18.4
3	AB	11	C	17.4
3	AB	72	C	16.3
3	AB	64	A	14.5
3	AB	76	A	13.2
3	AB	23	A	12.4
3	AB	60	U	12.1
3	AB	18	G	11.7
26	BC	125	SER	11.7
3	AB	59	U	11.7
3	AB	43	C	11.2
3	AB	51	U	10.4
3	AB	24	G	9.8
3	AB	29	G	9.5
3	AB	26	A	9.2
26	BC	140	PRO	9.2
27	BD	103	ARG	9.0
3	AB	28	G	8.6
3	AB	27	G	8.5
3	AB	74	C	8.5
3	AC	17	C	8.2
3	AB	75	C	7.9
3	AB	58	A	7.8
26	BC	124	GLY	7.8
30	BG	71	THR	7.7
47	BZ	6	GLY	7.6
3	AB	42	C	7.6
47	BZ	3	HIS	7.5
52	B5	6	ARG	7.5
26	BC	121	GLY	7.3
26	BC	126	LYS	7.3
3	AB	56	C	7.2
3	AB	25	C	7.1
47	BZ	85	ALA	7.0
30	BG	149	VAL	6.9
27	BD	69	ARG	6.8
3	AC	16	U	6.3
36	BO	83	VAL	6.2
37	BP	140	ALA	6.2
3	AB	30	G	6.1

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Mol	Chain	Res	Type	RSRZ
27	BD	119	ALA	6.1
36	BO	119	GLU	6.1
46	BY	106	GLY	6.0
5	AF	80	GLY	5.9
27	BD	102	LYS	5.9
52	B5	37	ARG	5.9
47	BZ	2	ALA	5.8
27	BD	83	GLU	5.7
26	BC	141	LYS	5.7
47	BZ	5	LYS	5.6
26	BC	2	LYS	5.6
30	BG	74	LYS	5.6
24	BA	1554	A	5.6
27	BD	191	ALA	5.5
36	BO	84	ASN	5.5
37	BP	141	GLN	5.5
27	BD	184	LYS	5.4
27	BD	104	TYR	5.4
3	AB	53	G	5.4
3	AB	63	G	5.4
29	BF	78	ILE	5.2
27	BD	13	ARG	5.2
17	AR	89	GLY	5.1
26	BC	118	ASP	5.1
52	B5	8	LYS	5.1
30	BG	150	ASP	5.1
26	BC	122	ALA	5.1
13	AN	110	ASP	5.1
27	BD	167	GLY	5.0
30	BG	48	GLU	5.0
27	BD	68	LYS	5.0
52	B5	36	LEU	4.9
24	BA	1490	A	4.9
9	AJ	132	GLY	4.9
36	BO	121	LYS	4.9
9	AJ	62	PHE	4.9
24	BA	1728	G	4.9
36	BO	118	GLY	4.9
24	BA	1729	A	4.9
27	BD	97	TYR	4.9
26	BC	1	PRO	4.8
27	BD	6	PHE	4.8

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Mol	Chain	Res	Type	RSRZ
27	BD	201	HIS	4.8
24	BA	1902	C	4.7
27	BD	120	GLY	4.7
13	AN	12	ARG	4.7
27	BD	71	ASP	4.7
27	BD	121	PRO	4.7
24	BA	2210	G	4.7
53	B6	41	ARG	4.7
24	BA	1732	A	4.7
27	BD	101	GLU	4.7
24	BA	164	U	4.6
26	BC	123	VAL	4.6
24	BA	1725	G	4.6
53	B6	44	PRO	4.6
53	B6	15	THR	4.6
47	BZ	7	LEU	4.6
3	AB	54	U	4.5
5	AF	79	ARG	4.5
27	BD	139	GLY	4.5
3	AD	11	C	4.5
52	B5	35	GLU	4.5
27	BD	66	ASP	4.5
43	BV	85	VAL	4.5
45	BX	87	LYS	4.5
27	BD	84	TYR	4.5
39	BR	112	PHE	4.5
24	BA	728	G	4.5
45	BX	85	VAL	4.4
52	B5	24	GLU	4.4
27	BD	183	ARG	4.4
3	AB	61	C	4.4
27	BD	111	LEU	4.4
27	BD	27	THR	4.4
14	AO	57	LYS	4.4
13	AN	11	LYS	4.3
8	AI	52	ILE	4.3
27	BD	110	GLY	4.3
27	BD	72	LYS	4.3
27	BD	174	ILE	4.3
37	BP	139	GLU	4.3
30	BG	146	TYR	4.3
26	BC	74	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
8	AI	10	LEU	4.3
13	AN	109	VAL	4.2
36	BO	122	PRO	4.2
27	BD	40	THR	4.2
27	BD	65	ILE	4.2
8	AI	22	GLU	4.2
24	BA	1903	G	4.2
27	BD	138	VAL	4.2
43	BV	97	LYS	4.2
53	B6	21	ARG	4.2
52	B5	10	LEU	4.2
26	BC	129	ARG	4.2
27	BD	140	THR	4.2
27	BD	5	LYS	4.1
14	AO	19	ARG	4.1
3	AB	31	A	4.1
24	BA	2238	G	4.1
27	BD	88	ARG	4.1
27	BD	190	TYR	4.1
24	BA	1971	A	4.1
27	BD	22	SER	4.1
27	BD	38	LYS	4.1
29	BF	68	LYS	4.1
43	BV	94	ASP	4.0
27	BD	91	ARG	4.0
27	BD	173	VAL	4.0
43	BV	93	ALA	4.0
27	BD	197	GLY	4.0
47	BZ	84	LEU	4.0
20	AU	86	VAL	4.0
36	BO	144	GLU	4.0
24	BA	2076	U	3.9
36	BO	120	ALA	3.9
24	BA	1433	U	3.9
8	AI	36	ARG	3.9
24	BA	1741	C	3.9
54	B7	15	LYS	3.9
26	BC	100	ILE	3.9
50	B3	20	ASN	3.9
22	AW	98	PRO	3.9
26	BC	88	GLU	3.9
27	BD	108	PRO	3.9

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Mol	Chain	Res	Type	RSRZ
24	BA	1963	U	3.9
14	AO	39	VAL	3.9
8	AI	58	GLY	3.9
52	B5	26	ASN	3.9
3	AB	55	U	3.9
24	BA	1734	C	3.8
24	BA	686	G	3.8
8	AI	59	TYR	3.8
24	BA	125	G	3.8
27	BD	90	ALA	3.8
27	BD	123	ALA	3.8
36	BO	27	HIS	3.8
27	BD	169	GLU	3.8
3	AD	75	C	3.8
29	BF	79	GLY	3.8
44	BW	96	ILE	3.8
27	BD	168	ARG	3.8
24	BA	1361	G	3.8
14	AO	67	THR	3.8
52	B5	23	THR	3.8
9	AJ	63	LYS	3.7
27	BD	128	GLY	3.7
22	AW	97	ALA	3.7
24	BA	2557	G	3.7
9	AJ	61	VAL	3.7
30	BG	85	GLY	3.7
30	BG	84	LYS	3.7
27	BD	89	SER	3.7
20	AU	88	LYS	3.7
27	BD	7	LYS	3.7
27	BD	109	ASP	3.6
43	BV	24	ILE	3.6
22	AW	48	LYS	3.6
27	BD	127	VAL	3.6
43	BV	86	LEU	3.6
53	B6	27	GLY	3.6
26	BC	127	LEU	3.6
27	BD	130	ALA	3.6
27	BD	67	PHE	3.6
52	B5	7	ILE	3.6
24	BA	2062	A	3.6
8	AI	51	PRO	3.6

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Mol	Chain	Res	Type	RSRZ
37	BP	93	TYR	3.6
34	BM	2	LYS	3.6
52	B5	52	VAL	3.6
45	BX	84	ARG	3.6
3	AD	10	G	3.6
29	BF	63	LYS	3.6
13	AN	19	ALA	3.6
20	AU	84	LYS	3.6
52	B5	51	GLU	3.6
5	AF	103	VAL	3.5
24	BA	727	A	3.5
43	BV	92	ARG	3.5
27	BD	96	HIS	3.5
27	BD	259	THR	3.5
14	AO	41	ARG	3.5
54	B7	16	ILE	3.5
13	AN	13	GLN	3.5
3	AB	52	G	3.5
13	AN	21	ILE	3.5
26	BC	79	LYS	3.5
53	B6	16	HIS	3.5
42	BU	13	ARG	3.5
3	AB	40	C	3.5
8	AI	47	ARG	3.5
27	BD	171	ASP	3.5
13	AN	82	VAL	3.5
8	AI	9	VAL	3.5
24	BA	1735	C	3.5
36	BO	91	PHE	3.5
36	BO	145	PRO	3.5
26	BC	91	ALA	3.5
24	BA	1695	G	3.5
52	B5	25	LYS	3.5
27	BD	125	ILE	3.4
26	BC	3	HIS	3.4
27	BD	80	ALA	3.4
29	BF	70	THR	3.4
27	BD	122	ASP	3.4
27	BD	9	TYR	3.4
27	BD	33	LEU	3.4
27	BD	198	ASN	3.4
49	B2	33	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
53	B6	22	MET	3.4
9	AJ	60	LYS	3.4
27	BD	64	ILE	3.4
3	AB	41	C	3.4
8	AI	61	LEU	3.4
50	B3	38	LYS	3.4
14	AO	40	VAL	3.4
27	BD	112	GLN	3.4
43	BV	83	LYS	3.4
8	AI	55	ASP	3.4
27	BD	272	ALA	3.4
9	AJ	59	LEU	3.3
26	BC	104	LEU	3.3
27	BD	129	ASN	3.3
29	BF	61	GLY	3.3
12	AM	90	LEU	3.3
9	AJ	111	ARG	3.3
30	BG	69	ALA	3.3
44	BW	68	ARG	3.3
27	BD	147	LEU	3.2
52	B5	11	LEU	3.2
13	AN	86	GLY	3.2
27	BD	113	VAL	3.2
5	AF	201	TYR	3.2
26	BC	78	ALA	3.2
27	BD	26	LYS	3.2
30	BG	79	ASN	3.2
36	BO	79	ARG	3.2
27	BD	92	ILE	3.2
27	BD	24	ILE	3.2
3	AD	69	G	3.2
22	AW	106	ALA	3.2
27	BD	95	LEU	3.2
8	AI	18	GLN	3.2
3	AC	15	G	3.1
8	AI	11	ASN	3.1
1	AA	210	U	3.1
47	BZ	4	LYS	3.1
46	BY	133	ILE	3.1
3	AC	47	U	3.1
21	AV	61	TYR	3.1
9	AJ	66	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
27	BD	36	PRO	3.1
27	BD	193	VAL	3.1
8	AI	57	GLN	3.1
9	AJ	53	LYS	3.1
27	BD	126	GLN	3.1
27	BD	16	MET	3.1
52	B5	12	GLU	3.1
52	B5	14	THR	3.1
24	BA	790	C	3.1
36	BO	82	GLY	3.1
9	AJ	110	GLN	3.1
24	BA	1917	U	3.1
27	BD	245	PRO	3.1
27	BD	200	ASP	3.1
37	BP	92	GLY	3.1
26	BC	138	PRO	3.1
27	BD	11	PRO	3.1
53	B6	35	ARG	3.1
27	BD	94	LEU	3.0
27	BD	182	LEU	3.0
24	BA	1901	A	3.0
47	BZ	15	ASP	3.0
2	A1	52	U	3.0
45	BX	86	ARG	3.0
53	B6	23	ARG	3.0
27	BD	62	TYR	3.0
50	B3	21	VAL	3.0
39	BR	111	GLU	3.0
30	BG	52	ILE	3.0
54	B7	64	TYR	3.0
8	AI	46	ARG	3.0
27	BD	86	PRO	3.0
30	BG	70	VAL	3.0
30	BG	51	ARG	3.0
22	AW	96	GLY	3.0
27	BD	175	LEU	3.0
27	BD	12	SER	3.0
24	BA	1367	A	3.0
53	B6	31	LEU	3.0
3	AC	49	C	2.9
44	BW	89	ILE	2.9
54	B7	14	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
13	AN	83	ILE	2.9
14	AO	18	VAL	2.9
27	BD	73	VAL	2.9
9	AJ	131	LYS	2.9
45	BX	89	PHE	2.9
27	BD	70	TRP	2.9
26	BC	145	VAL	2.9
29	BF	62	ARG	2.9
3	AC	3	C	2.9
29	BF	64	ILE	2.9
27	BD	131	LEU	2.9
27	BD	148	GLU	2.9
24	BA	2242	G	2.9
6	AG	183	GLY	2.9
24	BA	1565	C	2.9
30	BG	72	ARG	2.8
24	BA	1840	G	2.8
9	AJ	133	GLY	2.8
54	B7	5	LYS	2.8
27	BD	166	GLN	2.8
53	B6	24	THR	2.8
42	BU	84	LYS	2.8
44	BW	79	ALA	2.8
24	BA	1816	G	2.8
13	AN	81	ASP	2.8
43	BV	99	ARG	2.8
49	B2	35	ARG	2.8
24	BA	925	C	2.8
8	AI	60	PHE	2.8
40	BS	90	GLN	2.8
21	AV	81	ARG	2.8
41	BT	91	ASP	2.8
26	BC	152	ILE	2.8
52	B5	13	CYS	2.8
27	BD	124	PRO	2.8
24	BA	685	A	2.8
24	BA	1360	A	2.8
9	AJ	71	PRO	2.8
26	BC	128	GLY	2.8
8	AI	28	ARG	2.8
52	B5	50	ARG	2.8
3	AD	76	A	2.7

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Mol	Chain	Res	Type	RSRZ
24	BA	126	A	2.7
43	BV	87	PRO	2.7
9	AJ	70	LYS	2.7
9	AJ	124	LEU	2.7
54	B7	57	ARG	2.7
5	AF	77	ILE	2.7
24	BA	1432	C	2.7
39	BR	48	LEU	2.7
53	B6	42	LEU	2.7
26	BC	132	GLY	2.7
50	B3	37	SER	2.7
53	B6	26	GLY	2.7
27	BD	63	ARG	2.7
27	BD	153	ALA	2.7
37	BP	78	PRO	2.7
8	AI	86	ARG	2.7
52	B5	53	LYS	2.7
53	B6	11	LYS	2.7
27	BD	78	LYS	2.7
9	AJ	49	ILE	2.7
50	B3	36	CYS	2.7
3	AD	67	C	2.7
3	AD	12	U	2.7
27	BD	75	ILE	2.7
37	BP	82	ARG	2.7
19	AT	101	ARG	2.7
52	B5	28	ARG	2.7
27	BD	25	THR	2.7
29	BF	65	TRP	2.6
3	AB	62	C	2.6
24	BA	795	C	2.6
1	AA	1407	C	2.6
14	AO	66	VAL	2.6
24	BA	1368	G	2.6
26	BC	63	SER	2.6
27	BD	118	VAL	2.6
33	BL	139	VAL	2.6
8	AI	50	TYR	2.6
27	BD	254	THR	2.6
8	AI	13	ASN	2.6
26	BC	139	ASN	2.6
14	AO	75	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
13	AN	87	THR	2.6
24	BA	2241	A	2.6
3	AC	67	C	2.6
27	BD	30	GLU	2.6
46	BY	139	VAL	2.6
13	AN	111	ASP	2.6
27	BD	79	VAL	2.6
24	BA	764	A	2.6
5	AF	81	GLY	2.6
27	BD	28	GLU	2.6
5	AF	150	LYS	2.6
9	AJ	112	PRO	2.6
27	BD	105	ILE	2.6
29	BF	69	HIS	2.6
24	BA	683	C	2.6
6	AG	175	SER	2.5
24	BA	886	C	2.5
24	BA	2441	C	2.5
27	BD	114	GLY	2.5
27	BD	235	GLY	2.5
27	BD	274	ARG	2.5
53	B6	37	LYS	2.5
37	BP	80	GLU	2.5
33	BL	17	ALA	2.5
53	B6	45	ALA	2.5
36	BO	76	LYS	2.5
26	BC	72	VAL	2.5
27	BD	145	VAL	2.5
5	AF	202	ILE	2.5
13	AN	112	THR	2.5
26	BC	101	GLN	2.5
20	AU	87	ARG	2.5
20	AU	17	SER	2.5
26	BC	81	GLU	2.5
36	BO	77	ARG	2.5
24	BA	729	G	2.5
26	BC	117	PRO	2.5
13	AN	22	HIS	2.5
27	BD	192	THR	2.5
8	AI	23	LYS	2.5
28	BE	94	GLU	2.5
27	BD	164	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
27	BD	14	ARG	2.5
24	BA	1733	G	2.5
36	BO	81	GLN	2.5
24	BA	1266	G	2.5
24	BA	1942	C	2.5
26	BC	151	GLU	2.5
54	B7	10	ALA	2.5
26	BC	137	LEU	2.5
27	BD	87	ASN	2.4
27	BD	10	THR	2.4
42	BU	14	VAL	2.4
24	BA	796	C	2.4
39	BR	83	LYS	2.4
3	AD	68	C	2.4
5	AF	78	GLY	2.4
8	AI	35	ALA	2.4
46	BY	3	TYR	2.4
3	AC	1	G	2.4
24	BA	1835	G	2.4
9	AJ	69	VAL	2.4
43	BV	95	ILE	2.4
6	AG	166	LYS	2.4
24	BA	2586	C	2.4
6	AG	187	ARG	2.4
13	AN	85	ARG	2.4
54	B7	29	LYS	2.4
9	AJ	120	ILE	2.4
26	BC	85	GLU	2.4
53	B6	14	LYS	2.4
27	BD	76	PRO	2.4
39	BR	84	GLN	2.4
8	AI	66	GLU	2.4
27	BD	239	ARG	2.4
27	BD	258	LYS	2.4
36	BO	95	VAL	2.4
12	AM	89	ASP	2.4
27	BD	106	ILE	2.4
40	BS	91	ARG	2.4
53	B6	34	ARG	2.4
27	BD	243	GLY	2.4
3	AC	7	A	2.4
3	AC	76	A	2.4

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Mol	Chain	Res	Type	RSRZ
3	AD	13	C	2.4
26	BC	89	ALA	2.4
26	BC	110	PHE	2.4
26	BC	108	MET	2.4
24	BA	2596	U	2.4
26	BC	120	MET	2.4
24	BA	1509	C	2.3
22	AW	99	LEU	2.3
26	BC	147	PHE	2.3
24	BA	466	A	2.3
24	BA	1566	A	2.3
40	BS	29	ARG	2.3
26	BC	149	ILE	2.3
28	BE	96	PHE	2.3
36	BO	86	LYS	2.3
24	BA	2260	C	2.3
45	BX	30	VAL	2.3
8	AI	87	ARG	2.3
24	BA	2433	A	2.3
44	BW	84	ALA	2.3
52	B5	34	LEU	2.3
24	BA	1056	G	2.3
5	AF	75	VAL	2.3
28	BE	93	VAL	2.3
27	BD	269	PHE	2.3
8	AI	14	LEU	2.3
26	BC	86	ALA	2.3
37	BP	79	LEU	2.3
44	BW	92	LEU	2.3
30	BG	87	PRO	2.3
46	BY	156	LYS	2.3
53	B6	49	ARG	2.3
27	BD	17	THR	2.3
22	AW	100	ILE	2.3
24	BA	2591	C	2.3
27	BD	85	ASP	2.3
54	B7	6	THR	2.3
9	AJ	134	ALA	2.3
37	BP	68	ILE	2.3
24	BA	1537	C	2.3
8	AI	54	LYS	2.3
14	AO	68	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
54	B7	24	ALA	2.3
27	BD	116	GLN	2.2
43	BV	82	LEU	2.2
30	BG	73	ALA	2.2
21	AV	27	GLU	2.2
33	BL	138	VAL	2.2
8	AI	26	ILE	2.2
50	B3	52	THR	2.2
24	BA	1564	C	2.2
24	BA	2598	A	2.2
24	BA	2599	G	2.2
46	BY	172	ALA	2.2
53	B6	20	ALA	2.2
3	AC	14	A	2.2
14	AO	78	GLN	2.2
24	BA	1555	G	2.2
54	B7	13	ARG	2.2
8	AI	56	PRO	2.2
27	BD	81	ALA	2.2
29	BF	76	GLY	2.2
8	AI	17	SER	2.2
24	BA	2077	A	2.2
3	AD	70	G	2.2
44	BW	11	PRO	2.2
8	AI	48	LEU	2.2
13	AN	84	VAL	2.2
24	BA	1905	C	2.2
27	BD	268	ARG	2.2
26	BC	150	GLY	2.2
27	BD	107	ALA	2.2
24	BA	2060	A	2.2
54	B7	36	LYS	2.2
36	BO	143	GLY	2.2
3	AC	62	C	2.2
8	AI	88	VAL	2.2
27	BD	35	LYS	2.2
8	AI	37	VAL	2.2
26	BC	114	VAL	2.2
24	BA	2075	U	2.2
24	BA	1913	A	2.2
27	BD	37	LEU	2.2
37	BP	64	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
27	BD	74	GLY	2.2
20	AU	19	LYS	2.2
24	BA	1055	G	2.2
27	BD	58	HIS	2.2
24	BA	1915	U	2.2
24	BA	1944	U	2.1
27	BD	195	ALA	2.1
30	BG	67	LYS	2.1
50	B3	19	GLY	2.1
8	AI	25	ILE	2.1
24	BA	791	C	2.1
26	BC	112	ALA	2.1
26	BC	116	THR	2.1
46	BY	165	VAL	2.1
14	AO	64	TYR	2.1
27	BD	77	ALA	2.1
27	BD	144	ALA	2.1
13	AN	89	ALA	2.1
24	BA	2063	C	2.1
27	BD	146	GLU	2.1
8	AI	49	ALA	2.1
8	AI	24	GLU	2.1
9	AJ	72	ARG	2.1
27	BD	275	LYS	2.1
53	B6	36	GLN	2.1
45	BX	31	LEU	2.1
8	AI	27	GLN	2.1
9	AJ	67	GLU	2.1
27	BD	18	VAL	2.1
24	BA	1904	G	2.1
33	BL	85	GLU	2.1
50	B3	30	GLU	2.1
8	AI	34	GLY	2.1
21	AV	75	ALA	2.1
5	AF	108	ASN	2.1
50	B3	32	TYR	2.1
24	BA	1726	G	2.1
27	BD	8	PRO	2.1
13	AN	29	ILE	2.1
21	AV	76	PRO	2.1
24	BA	1774	C	2.1
52	B5	33	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
36	BO	148	LEU	2.1
26	BC	80	GLY	2.1
24	BA	684	G	2.1
27	BD	99	ASP	2.1
27	BD	260	ARG	2.0
24	BA	2606	C	2.0
27	BD	152	GLY	2.0
36	BO	117	GLU	2.0
47	BZ	8	GLY	2.0
26	BC	154	ARG	2.0
37	BP	81	VAL	2.0
26	BC	90	GLY	2.0
9	AJ	156	TRP	2.0
3	AC	71	G	2.0
24	BA	1567	A	2.0
24	BA	2388	A	2.0
53	B6	25	PRO	2.0
19	AT	53	LEU	2.0
21	AV	47	HIS	2.0
27	BD	165	ILE	2.0
8	AI	84	ASN	2.0
24	BA	1914	C	2.0
14	AO	80	HIS	2.0
29	BF	73	ALA	2.0
24	BA	1742	C	2.0
14	AO	59	ARG	2.0
22	AW	51	GLU	2.0
8	AI	53	ALA	2.0
24	BA	1727	U	2.0
26	BC	97	GLU	2.0
52	B5	44	ARG	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.