



Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 04:16 pm BST

PDB ID : 4V8O
Title : Crystal structure of the hybrid state of ribosome in complex with the guanosine triphosphatase release factor 3
Authors : Jin, H.; Kelley, A.C.; Ramakrishnan, V.
Deposited on : 2011-07-26
Resolution : 3.80 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

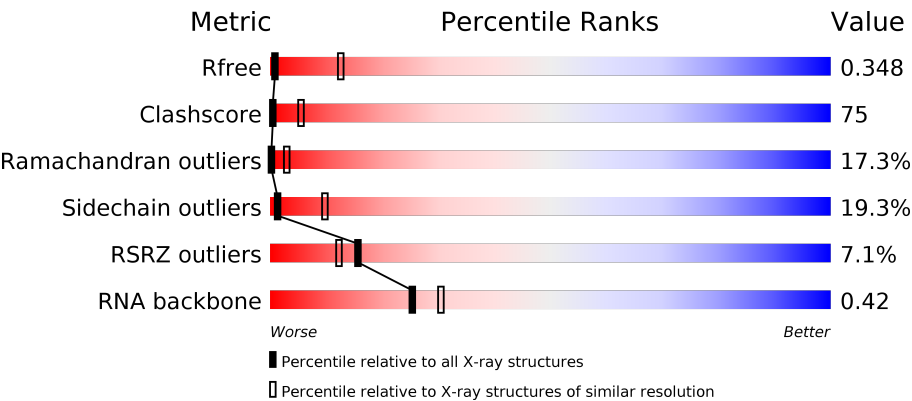
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	130704	1212 (4.00-3.60)
Clashscore	141614	1288 (4.00-3.60)
Ramachandran outliers	138981	1243 (4.00-3.60)
Sidechain outliers	138945	1237 (4.00-3.60)
RSRZ outliers	127900	1121 (4.00-3.60)
RNA backbone	3102	1036 (4.60-3.00)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	<div><div>2%</div><div>11%64%20%</div><div></div></div>
2	AB	256	<div><div>%</div><div>9%46%31%5%8%</div><div></div></div>
3	AC	239	<div><div>%</div><div>18%46%21%13%</div><div></div></div>
4	AD	209	<div><div>6%</div><div>20%60%19%</div><div></div></div>

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Mol	Chain	Length	Quality of chain
5	AE	162	
6	AF	101	
7	AG	156	
8	AH	138	
9	AI	128	
10	AJ	105	
11	AK	129	
12	AL	135	
13	AM	126	
14	AN	61	
15	AO	89	
16	AP	88	
17	AQ	105	
18	AR	88	
19	AS	93	
20	AT	106	
21	AU	27	
22	AV	77	
23	AX	9	
24	AY	529	
25	B0	85	
26	B1	98	
27	B2	72	
28	B3	60	
29	B4	71	

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Mol	Chain	Length	Quality of chain
30	B5	60	
31	B6	54	
32	B7	49	
33	B8	65	
34	B9	37	
35	BA	2915	
36	BB	122	
37	BC	229	
38	BD	276	
39	BE	206	
40	BF	210	
41	BG	182	
42	BH	180	
43	BJ	173	
44	BK	147	
45	BN	140	
46	BO	122	
47	BP	150	
48	BQ	141	
49	BR	118	
50	BS	112	
51	BT	146	
52	BU	118	
53	BV	101	
54	BW	113	

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Mol	Chain	Length	Quality of chain
55	BX	96	
56	BY	110	
57	BZ	206	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
58	GCP	AY	1000	-	-	X	-

2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 151017 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

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

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

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

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

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

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

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

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AI	58	ARG	HIS	conflict	UNP P80374

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

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

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	1	MET	-	expression tag	UNP P17293
AL	2	VAL	-	expression tag	UNP P17293
AL	3	ALA	-	expression tag	UNP P17293
AL	4	LEU	-	expression tag	UNP P17293

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14 TYPE Z.

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

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

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

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O		0	0	0
			574	367	112	95				

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

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

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a RNA chain called PE HYBRID STATE TRNA FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 23 is a RNA chain called MRNA 5'-R(*AP*AP*AP*AP*AP*AP*UP*GP*UP)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	9	Total	C	N	O	P	0	0	0
			192	88	39	57	8			

- Molecule 24 is a protein called PEPTIDE CHAIN RELEASE FACTOR 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	496	Total	C	N	O	S	0	0	0
			3934	2492	677	744	21			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	45	Total	C	N	O	S	0	0	1
			341	218	58	61	4			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 35 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2901	Total	C	N	O	P	0	0	0
			62477	27807	11683	20087	2900			

- Molecule 36 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	228	Total	C	N	O	S	0	0	0
			1742	1101	318	319	4			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BC	19	ILE	VAL	conflict	UNP Q5SLP7
BC	27	HIS	ARG	conflict	UNP Q5SLP7
BC	127	MET	LEU	conflict	UNP Q5SLP7

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	156	Total	C	N	O	S	0	0	1
			1189	752	222	214	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BJ	131	Total	C	N	O		0	0	1
			654	393	131	130				

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BK	141	Total	C	N	O		0	0	1
			701	420	141	140				

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BR	117	Total	C	N	O	S	0	0	0
			960	599	202	159				

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BS	99	Total	C	N	O	S	0	0	1
			771	486	155	130				

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L21.

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

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	BX	93	Total	C	N	O	S	0	0	1
			726	471	132	123				

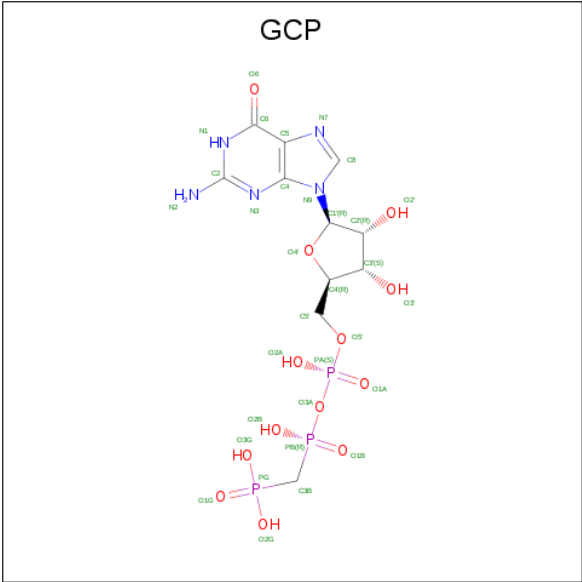
- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BZ	176	Total	C	N	O	S	0	0	0
			1403	897	252	252	2			

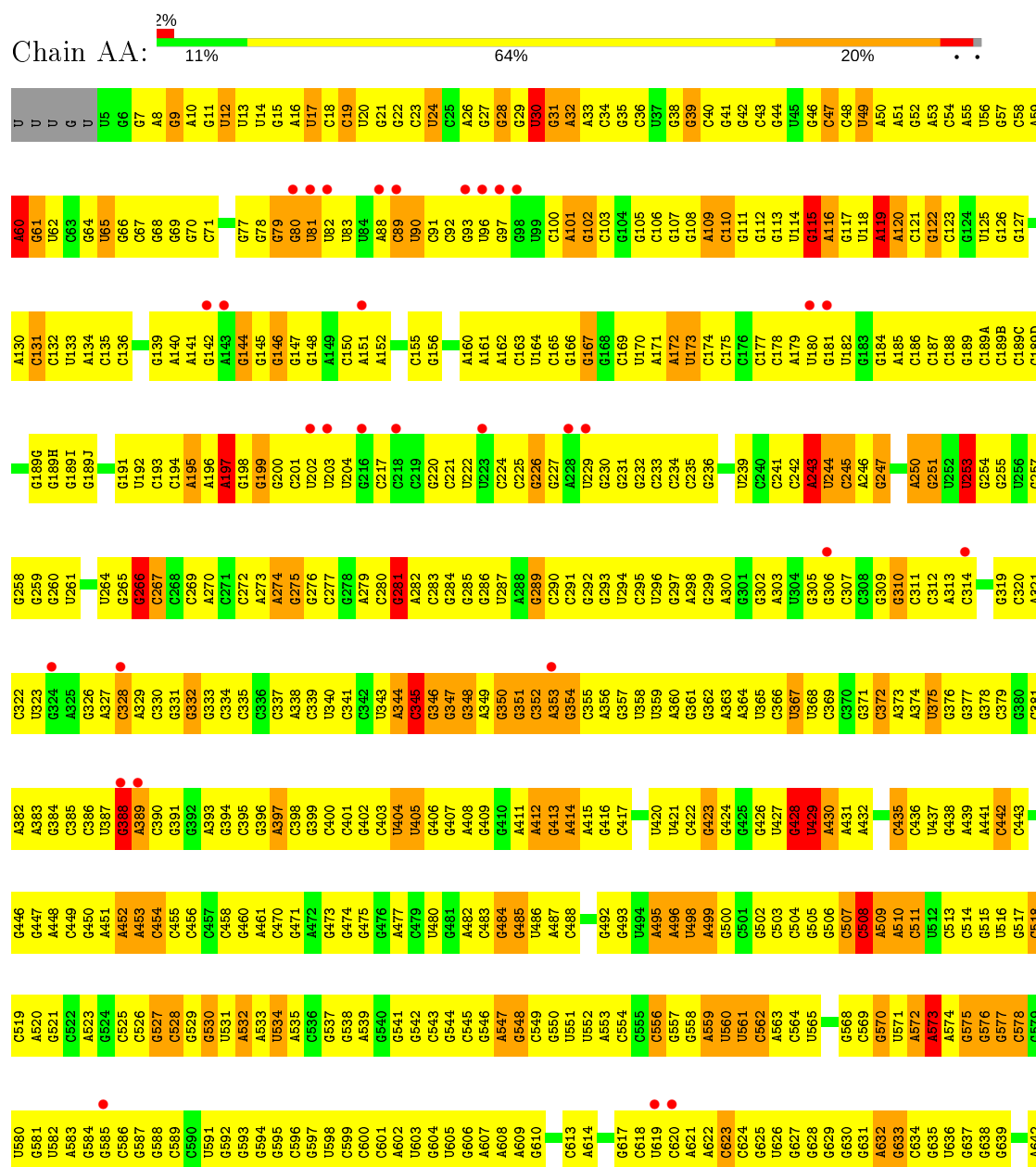
- Molecule 58 is PHOSPHOMETHYLPHOSPHONIC ACID GUANYLATE ESTER (three-letter code: GCP) (formula: $C_{11}H_{18}N_5O_{13}P_3$).



3 Residue-property plots

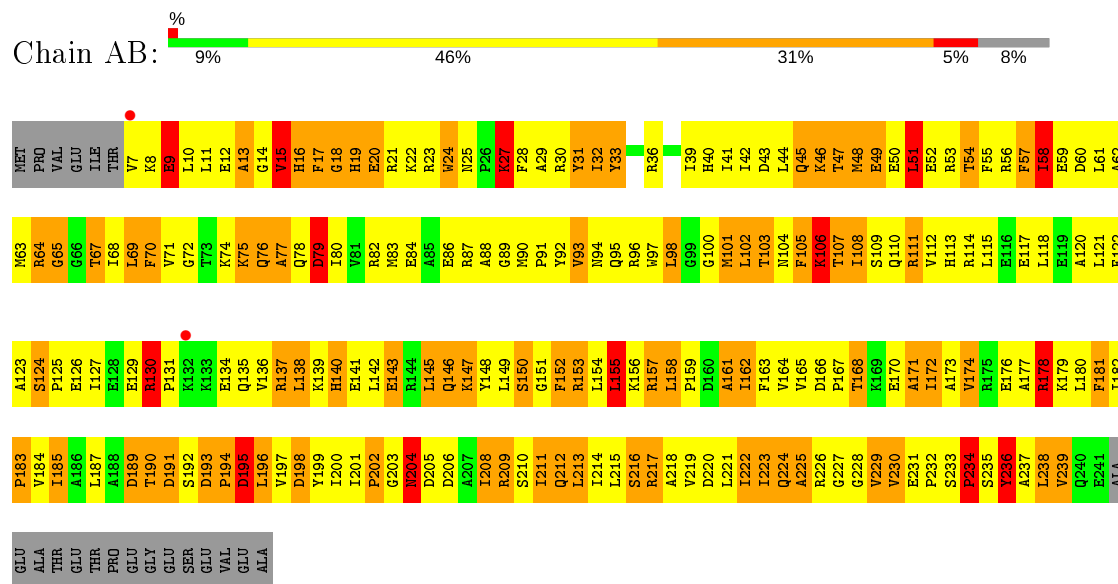
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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 rRNA

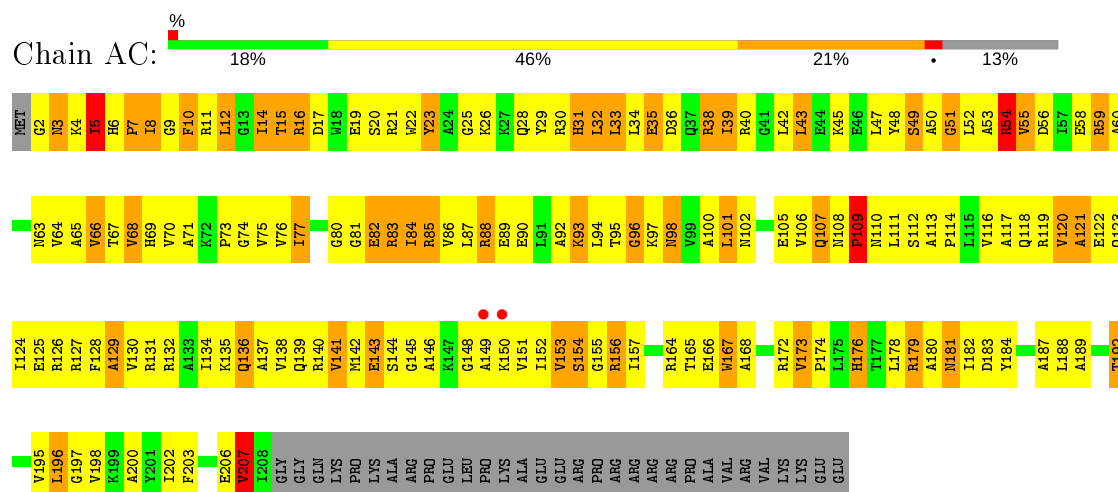


A1503	G1438	G1316	A1256	U1194	C1132	G1072	U1012	U952	A892	C826	A766	U705	C643
G1504	C1439	C1317	U1257	C1195	G1133	U1073	G1013	G993	C893	U827	A767	A706	G644
U1505	A1318	A1318	G1258	U1196	G1134	G1074	A1014	G994	A1014	A828	A768	C707	C645
G1506	A1319	A1319	C1259	G1197	U1135	G1075	A1015	U995	G895	G829	G769	C708	U646
A1507	G1379	C1320	C1260	G1198	U1136	G1076	A1016	U956	C896	G830	C770	G709	C647
G1508	G1442A	C1321	A1261	U1199	C1137	G1077	C1017	U957	C897	U831	G771	G710	A648
C1509	A1442B	C1322	C1262	C1200	G1138	U1078	C1018	A958	C898	C832	U772	C711	G649
U1510	G1443	G1323	C1263	A1201	G1139	A1080	C1019	A959	C899	U833	G773	A712	G650
G1511	A1324	A1324	G1264	G1202	C1140	G1081	U1020	U960	A900	C834	G774	G713	C651
A1512	C1445	C1325	G1265	C1203	C1141	G1082	U1021	U961	A901	U835	G775	A714	U852
U1513	U1446	G1326	G1266	A1204	G1142	G1083	U1022	C982	G902	C836	G776	G715	A653
C1514	A1447	C1327	G1267	U1205	G1143	U1083	U1023	G963	G903	G837	A777	A716	G657
G1515	C1452	C1328	A1268	C1206	G1144	G1084	G1026	G964	C904	G838	G778	C717	G658
C1516	G1456	A1329	A1269	G1207	C1145	U1085	C1027	A965	U965	U839	C779	G718	U859
A1517	G1457	U1330	C1270	C1208	A1146	U1086	C1028	G966	G906	C840	A780	C719	G660
G1518	G1458	G1331	G1271	C1209	C1147	G1087	C1029	C967	A907	U841	A781	C720	G661
A1519	C1459	A1332	G1272	C1210	U1148	G1088	G1030	A968	A968	C848	A782	G721	G662
G1520	G1460	A1333	G1273	U1211	C1149	G1089	G1030A	A969	A909	C849	C783	A722	G663
U1521	G1461	C1334	G1274	U1212	U1150	U1090	C1030B	C970	C910	U850	C784	U723	A663
G1522	G1462	G1335	A1275	A1213	A1151	U1091	G1030C	G971	U911	G851	G785	G724	G664
U1523	C1463	C1336	G1276	C1214	A1152	A1092	A1030D	C972	C912	G852	G786	G725	A665
G1526	G1464	G1337	U1277	G1215	C1153	G1093	G1031	G973	A913	G853	A787	G726	G666
C1527	C1465	G1338	G1278	G1216	G1154	G1094	G1032	A974	A914	G854	U788	G727	G667
U1528	G1466	A1339	A1279	C1217	G1155	U1095	G1033	A975	A915	G855	U789	A728	G668
G1529	G1467	A1340	A1280	C1218	G1156	U1096	G1034	G976	G916	C856	A790	U729	U669
U1530	A1468	U1341	U1281	U1219	A1157	C1097	A1035	A977	G917	C857	G791	G730	G670
A1531	G1469	C1342	C1282	G1220	C1158	U1098	G1036	A978	A918	G858	A792	G731	G671
U	G1470	G1343	G1283	G1221	U1159	G1099	C1037	C979	A919	A859	U793	G732	U672
C	G1471	C1344	C1284	C1222	C1160	C1100	C1038	C980	U920	A860	A794	G735	G673
C	G1472	U1345	A1285	C1223	C1161	A1101	C1039	U981	C981	C861	C795	G736	G674
A	A1473	A1346	A1286	G1224	C1162	A1102	U1040	U982	G922	C862	C796	A737	A675
C	G1474	G1347	A1287	A1225	C1163	C1103	A1041	A983	A923	U863	C797	A737	A676
C	G1475	U1348	A1288	C1226	C1165	G1104	G1042	C984	C924	A864	G798	C738	U677
U	C1476	A1349	A1289	A1227	A1166	G1105	A1046	C985	G925	A865	G799	U739	U678
C	C1477	A1350	G1290	C1228	A1168	G1106	G1047	A986	G926	C866	G800	C740	C680
U	G1478	U1351	A1291	A1229	A1169	C1107	G1048	G987	G927	C867	U801	G741	G681
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U	G1480	G1353	G1293	G1231	G1171	C1109	U1050	C989	G929	C869	G803	U743	G683
C	A1481	C1354	G1294	U1232	C1172	A1110	G1051	C990	C930	U870	U804	C744	A684
C	A1482	G1355	G1295	G1233	G1173	A1111	C1052	U991	C931	U871	C805	G745	G685
U	A1483	C1356	C1296	C1234	G1174	C1112	U1053	U992	C932	A872	C806	A746	G686
A1484	A1357	G1357	C1297	U1235	G1175	C1113	G1054	G993	G933	A873	A807	C747	U686
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G1489	C1362	U1302	U1302	U1248	A1180	C1118	G1058	G998	A938	G878	C812	G752	G691
C1490	C1363	G1303	C1303	G1241	G1181	C1119	C1059	C999	C939	C879	U813	A753	U692
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A1492	U1364	C1243	G1305	C1243	A1183	U1121	G1061	A1001	C941	G881	A815	G755	A694
A1493	G1365	C1244	A1306	C1244	G1184	U1122	U1062	G1001A	G942	C882	A816	C756	A695
G1494	C1366	U1307	A1248	U1248	G1185	A1123	G1063	G1002	U943	C883	C817	U757	A696
U1495	C1367	G1308	U1308	C1249	G1186	G1124	C1064	G1003	G944	U884	G818	G758	U697
A1496	G1368	U1309	G1309	G1249	G1187	U1125	U1065	A1004	G945	U885	A819	A759	G698
G1497	C1369	G1310	A1250	A1250	A1188	U1126	C1066	A1005	A946	G886	U820	G760	C699
U1498	G1370	G1311	A1251	A1251	C1189	G1127	A1067	C1006	G947	G887	G821	G761	G700
A1499	G1371	A1252	A1252	A1252	G1190	C1128	G1068	C1009	G948	G888	C822	C762	C701
A1500	U1372	G1253	G1253	G1253	A1191	C1129	G1069	G1010	A949	A889	G823	G763	A702
C1501	C1373	C1314	C1314	C1264	A1192	A1130	U1070	G1011	U950	G890	C824	C764	G703
A1502	A1374	U1315	U1315	G1255	G1193	G1131	C1071		G951	U891	G825	G765	A704

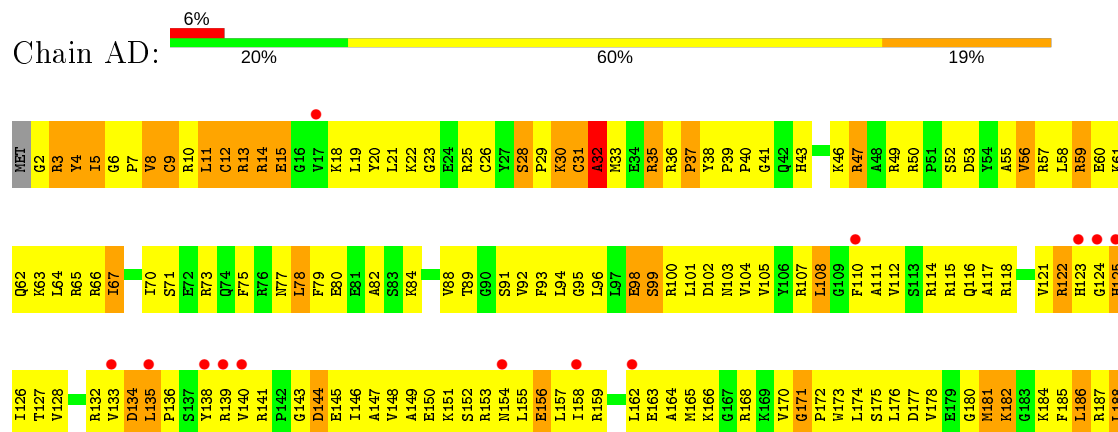
- Molecule 2: 30S RIBOSOMAL PROTEIN S2



- Molecule 3: 30S RIBOSOMAL PROTEIN S3

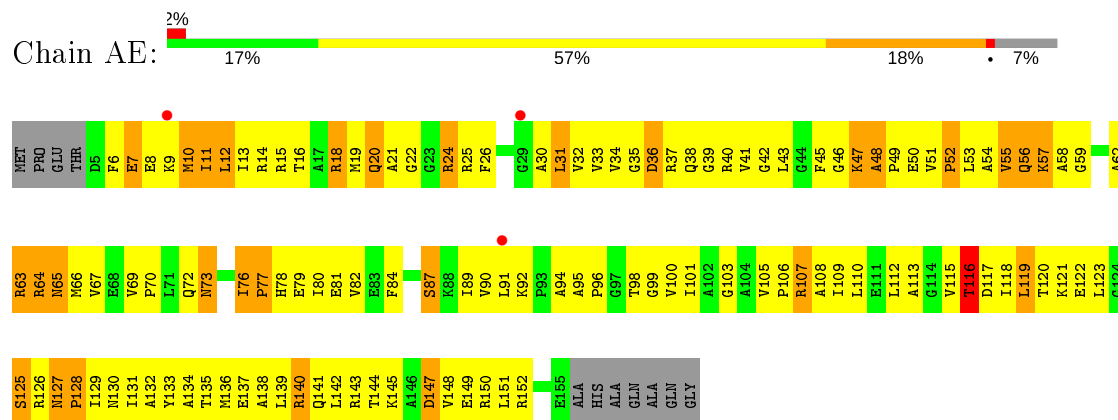


- Molecule 4: 30S RIBOSOMAL PROTEIN S4

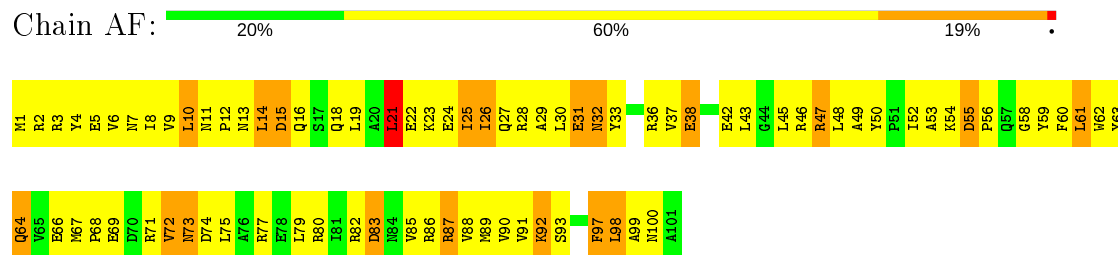


P189
D190
R191
E192
D193
L194
A195
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V198
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Y207
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R209

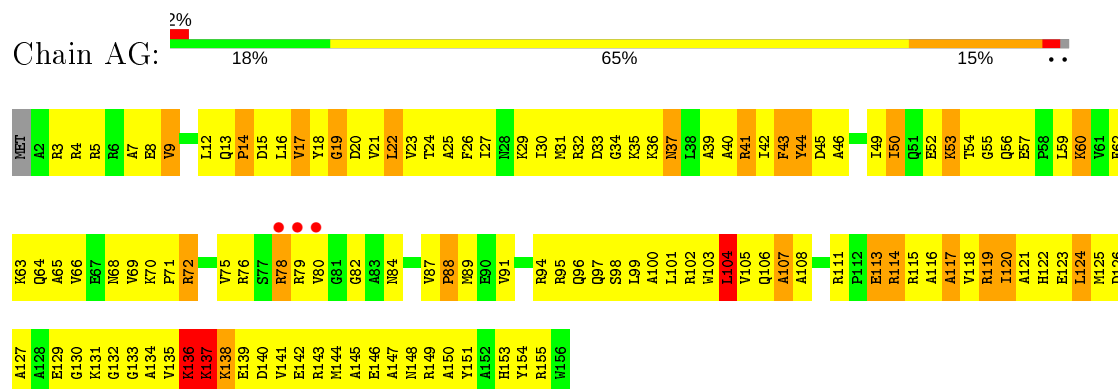
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



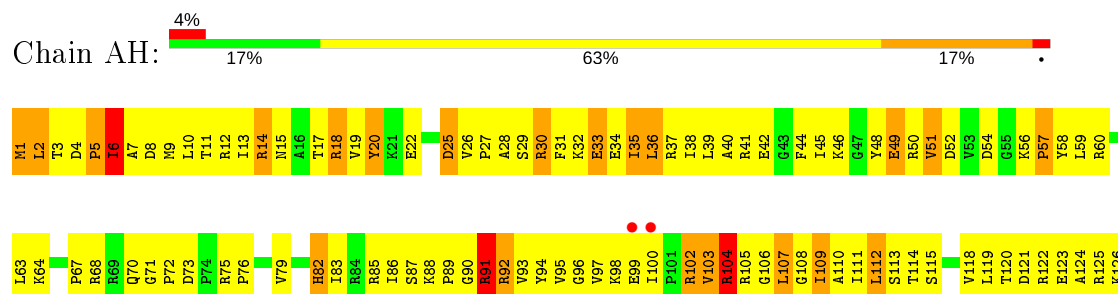
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

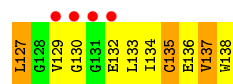


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

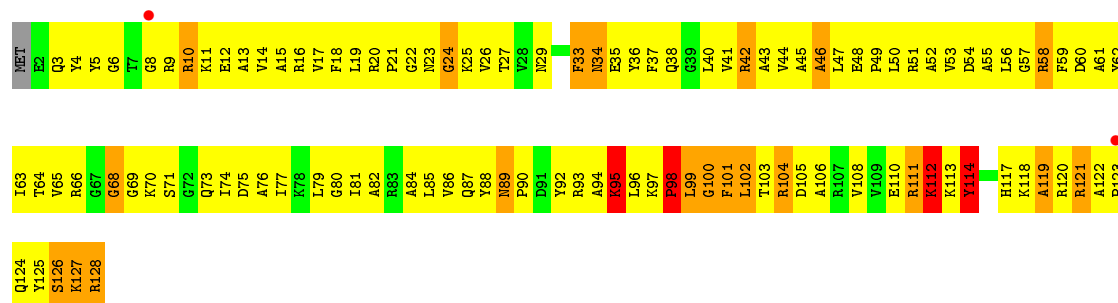


• Molecule 8: 30S RIBOSOMAL PROTEIN S8

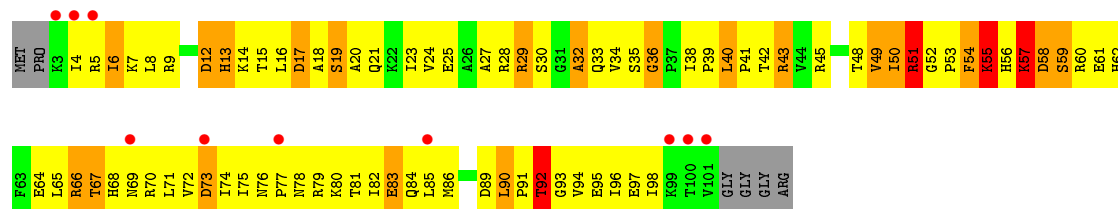
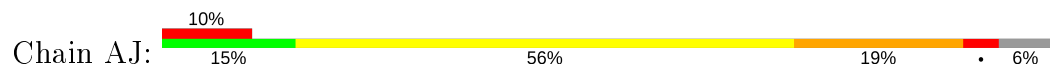




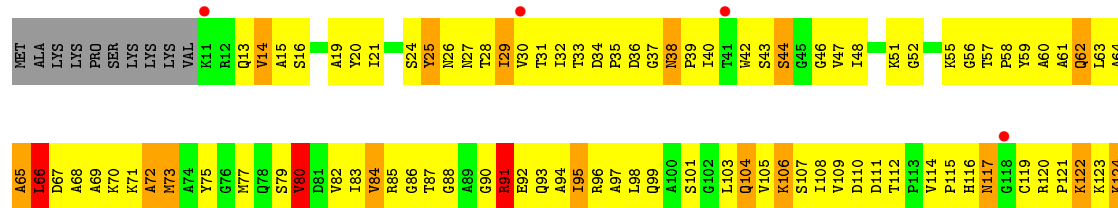
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



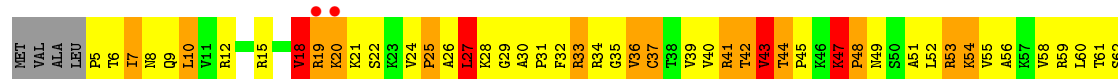
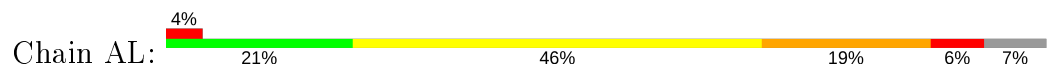
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

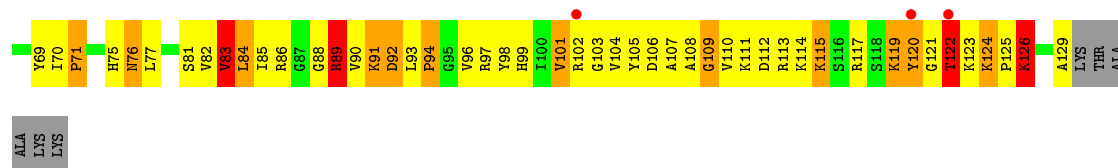


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

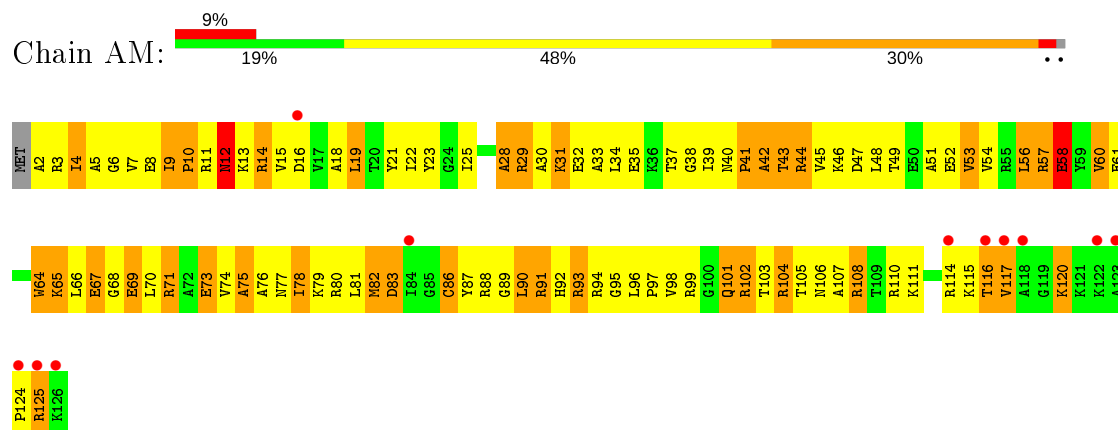


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

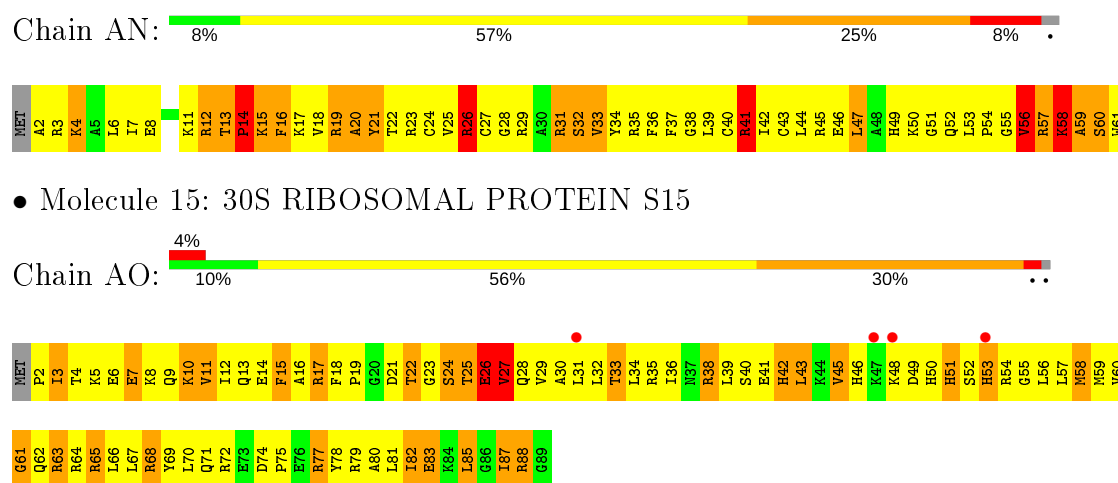




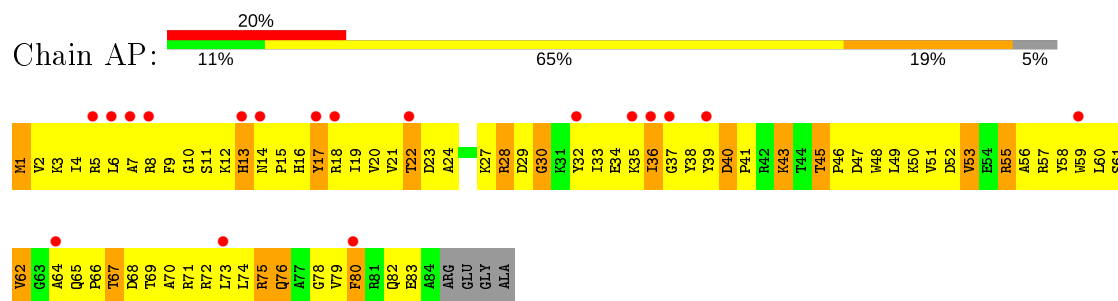
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



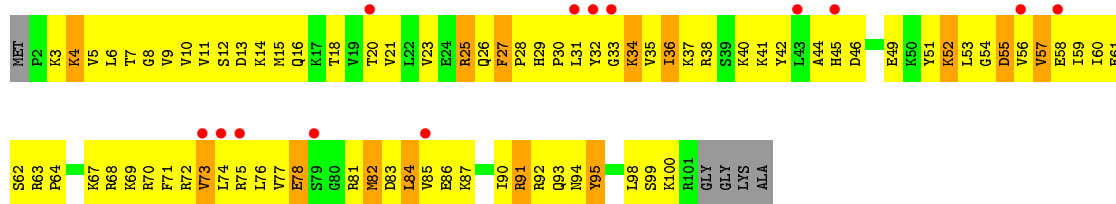
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



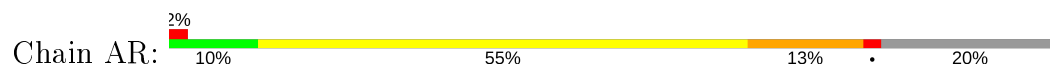
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



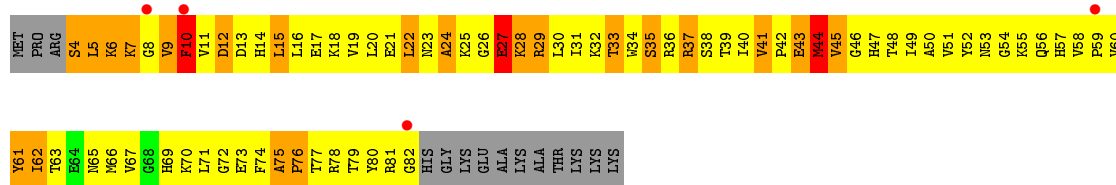
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



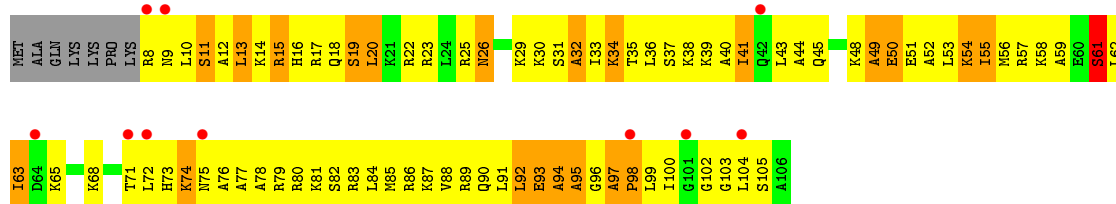
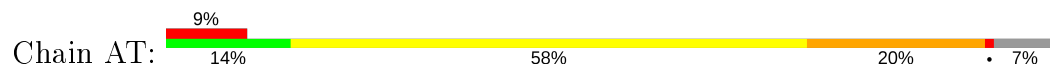
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



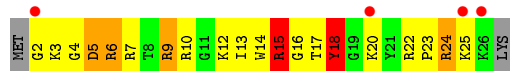
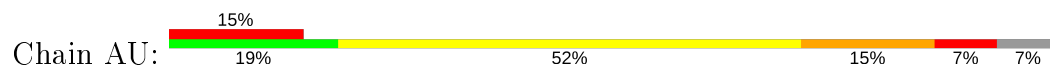
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



• Molecule 20: 30S RIBOSOMAL PROTEIN S20

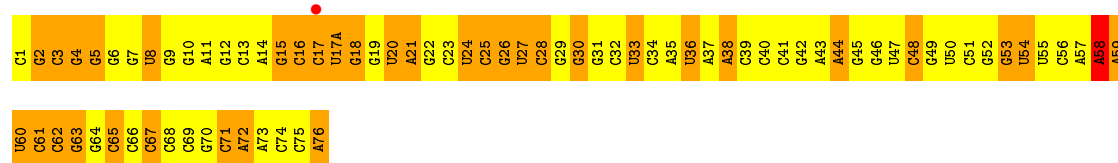


• Molecule 21: 30S RIBOSOMAL PROTEIN THX



• Molecule 22: PE HYBRID STATE TRNA FMET





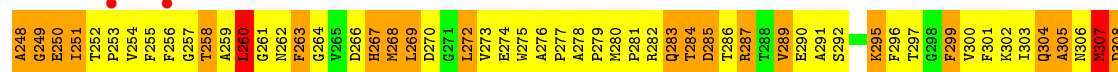
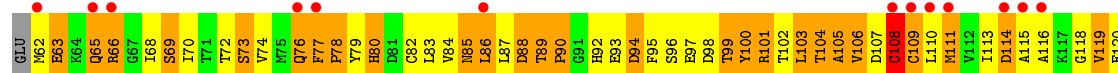
- Molecule 23: MRNA 5'-R(*AP*AP*AP*AP*AP*AP*UP*GP*UP)-3'

Chain AX: 11% 44% 44%



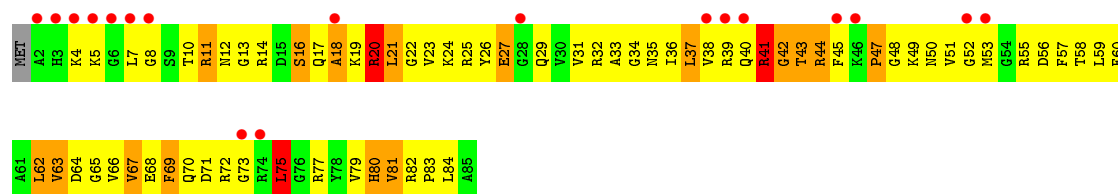
- Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 3

Chain AY: 10% 12% 47% 29% 5% 6%

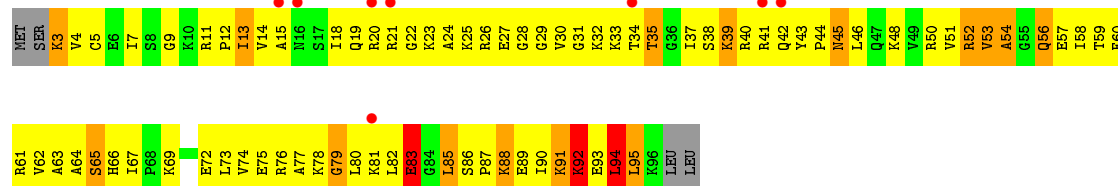


- Molecule 25: 50S RIBOSOMAL PROTEIN L27

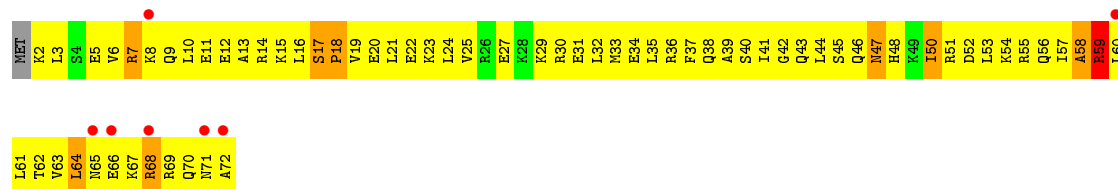
Chain B0: 21% 16% 60% 19%



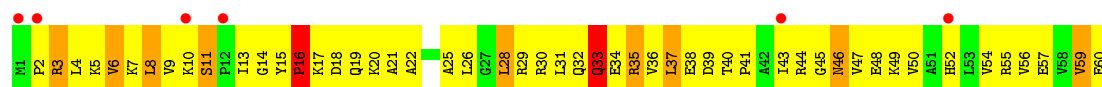
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



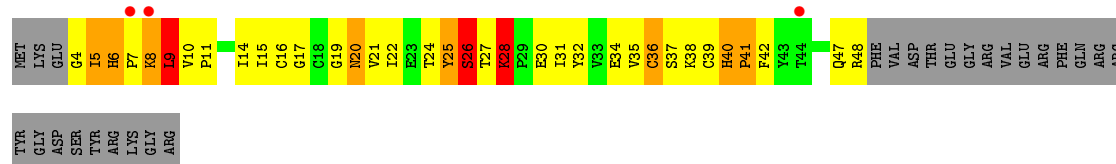
• Molecule 27: 50S RIBOSOMAL PROTEIN L29



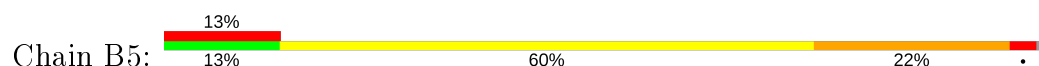
• Molecule 28: 50S RIBOSOMAL PROTEIN L30



• Molecule 29: 50S RIBOSOMAL PROTEIN L31



• Molecule 30: 50S RIBOSOMAL PROTEIN L32





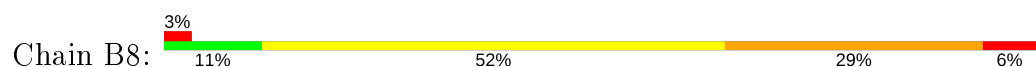
• Molecule 31: 50S RIBOSOMAL PROTEIN L33



• Molecule 32: 50S RIBOSOMAL PROTEIN L34



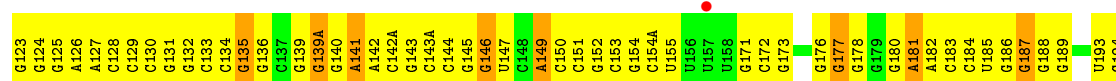
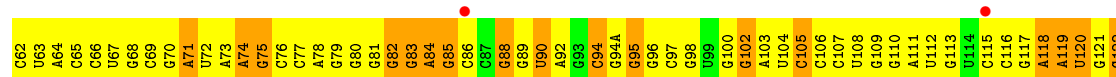
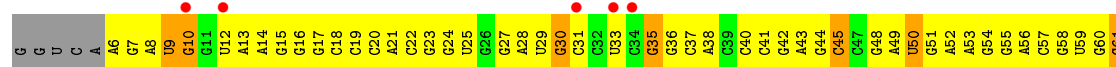
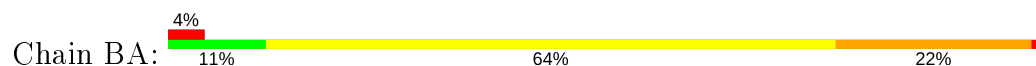
• Molecule 33: 50S RIBOSOMAL PROTEIN L35



• Molecule 34: 50S RIBOSOMAL PROTEIN L36



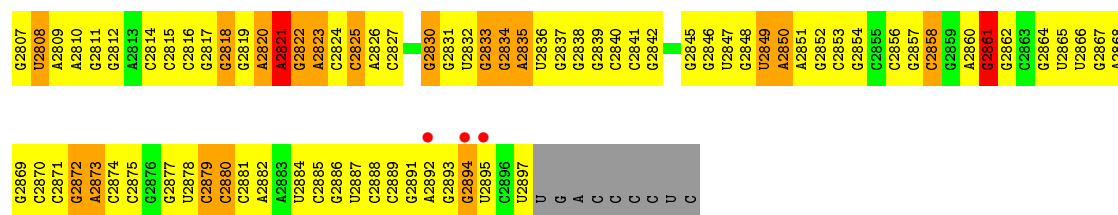
• Molecule 35: 23S RIBOSOMAL RNA



A1001	G942	A878	C817	A752	C692	A653	U594	C531	G467	A402	C343	A282	A255	A196
G1002	U943	G879	G818	C753	C693	A654	C595	A532	G468	U403	G344	A283	A256	A197
G1003	G944	G880	A819	C754	U694	G654C	G596	G533	G469	C404	A345	U284	A257	C198
G1004	A945	G881	A820	C755	G695	G654D	U597	U534	A470	U405	A346	C285	G258	C199
C1005	G946	G884	G823	C756	C696	G654E	G598	C535	A471	G407	A347	C286	G259	A200
G1006	G947	C885	A824	A761	C698	G654F	G600	C536	A472	G408	G348	C287	G260	U200
C1007	G948	C886	C825	U762	A699	G654G	C601	U537	G473	G409	G349	C288	G261	C201
G1008	G949	G887	G826	U763	A699	G654H	G602	G538	U474	C410	U350	C289	G262	C202
G1009	G950	A887	U826	G763	G700	G654I	G603	C539	G475	G411	G351	G290	A263	C203
A1010	C951	C888	U827	A764	G701	G654J	A603	C540	A476	A412	G352	C291	C264	A204
G1011	G952	C889	U828	G765	G702	A654K	G604	C541	A477	A413	G353	C292	A265	G205
A1012	A953	A890	A829	C766	U703	G654L	C605	C542	A478	C414	G354	U293	G266	U206
C1013	G954	G892	G830	U767	G704	G654M	U606	C543	A479	C415	G355	A294	C267	A207
U1014	C955	C893	G831	G768	A705	C654N	U607	A547	A480	C416	G356	G295	C268	C208
G1015	G956	C894	G832	G769	A706	G654O	A608	A548	A481	C419	A357	C296	U269	C209
G1016	A957	U895	U833	G770	G707	G654P	A609	A549	A482	C420	U358	C297	A270	C210
U1019	U958	A896	C834	G771	C708	G654Q	G612	G549	A483	A423	A359	G298	A271	A211
A1020	A959	C897	A835	G772	U709	A654R	G613	G551	A484	G424	G360	A299	A271A	G212
A1021	C961	C898	G836	U773	G710	G654S	U614	G552	C485	G425	G361	A300	C271B	A213
G1022	G962	A900	C837	A774	G711	G654T	U615	G553	C486	G426	U362	G301	G271C	G214
U1023	U963	A901	C838	G775	G712	C654U	U616	U554	G489	A427	U363	C302	G271D	G215
G1024	C964	C902	U839	G776	G713	A654U	G617A	G555	A490	A428	A363A	U303	U271E	A216
C1025	G965	G903	C840	A777	U714	A654V	A614C	G556	G491	U427	G364	G304	C271F	G217
U1026	G966	C904	A841	G778	G715	A655	G615	G557	A492	G429	U365	U305	C271G	A218
A1027	C967	U905	G842	U779	A716	G656	G616	G558	A493	G430	U366	U306	G271H	G219
G1028	G968	G906	G843	G780	G717	U657	C618	G559	G494	U431	A363F	G307	G271I	G220
A1029	U969	U907	C844	A781	A718	C658	G619	C560	G495	A432	C364	G308	C271J	A221
G1030	C970	A908	G845	A782	C719	C659	G620	G561	G496	A433	G365	G309	A222	A222
C1031	A971	C908	C846	A783	C720	G660	A621	U562	A497	U434	C366	A310	U271L	A223
A1032	G972	A910	U847	A784	G721	G661	G622	G563	G498	C435	G370	A311	G271M	G224
U1033	A973	A911	G848	G785	A722	G662	G623	C564	U499	C436	A371	G312	U271N	A225
G1034	G974	C912	C850	G786	G723	G663	G624	C565	G500	G437	G372	C313	C271O	G226
U1035	C975	U913	U851	U787	G724	C664	G625	U566	A501	G438	U373	A314	A227	A227
G1036	G975A	C914	G852	A788	G725	G665	U626	A567	A502	G440	G375	G315	C271P	A228
C1037	C976	C915	G853	G790	G726	G666	A627	U568	G442	U441	C376	C316	G271Q	A229
U1038	G977	G916	G854	C791	A727	U667	G628	U569	A505	G443	C377	G317	G271R	U230
G1039	G978	A917	G855	G792	G728	G668	G629	A571	A507	C444	C378	C318	C271T	C231
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G1041	A980	G919	C857	C731	C730	A670	A631	A573	C509	C446	U380	A322	G271X	A233
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A1057	A996	G936	G873	C812	U747	C687	G648	C589	A527	G462	G396	G338	C277	G250
G1058	G997	G937	G874	U813	G748	U688	G649	A590	C527	G463	G397	U339	A278	A251
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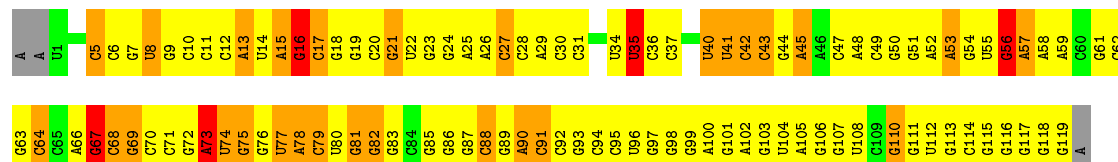
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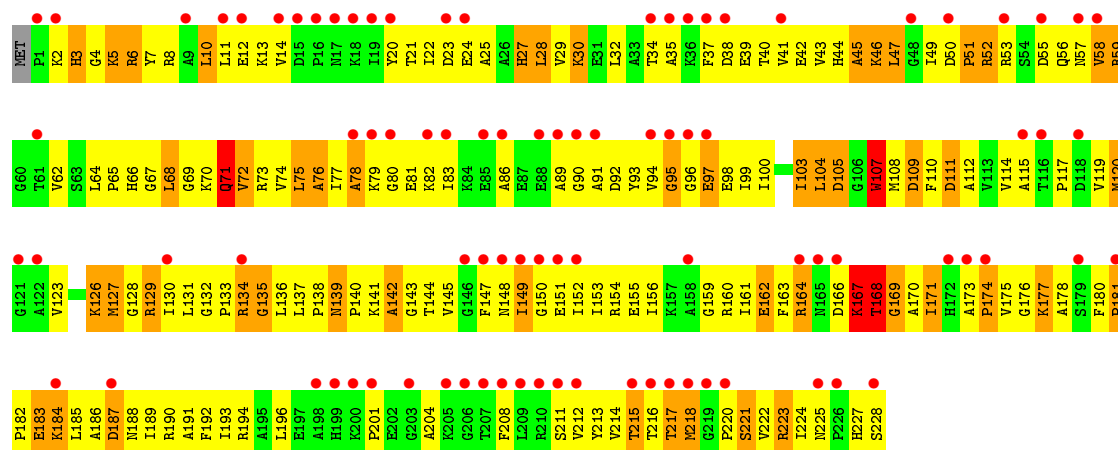
• Molecule 36: 5S RIBOSOMAL RNA

Chain BB: 11% 60% 23% . .



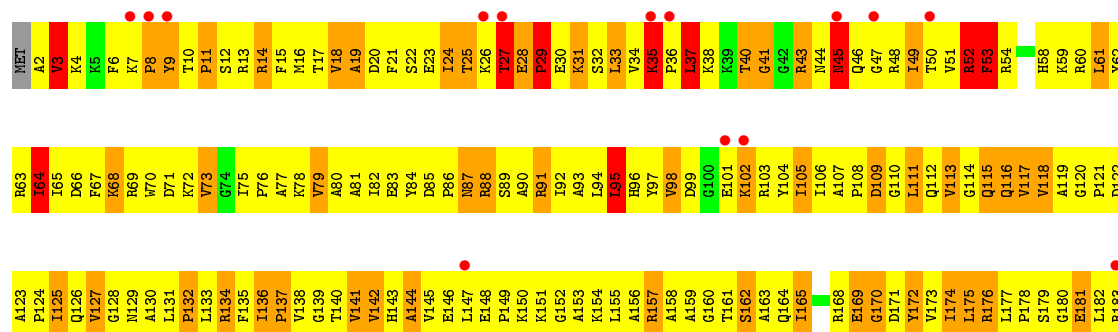
• Molecule 37: 50S RIBOSOMAL PROTEIN L1

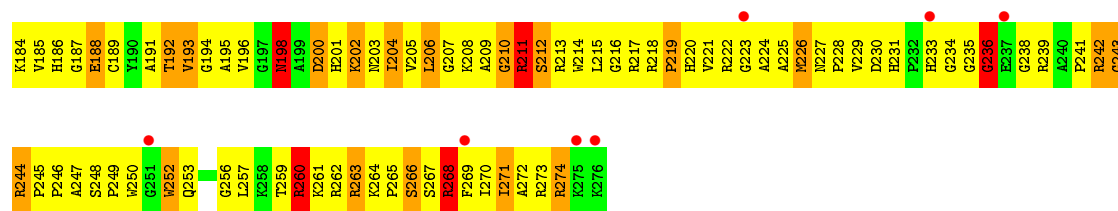
Chain BC: 22% 39% 54% 22% .



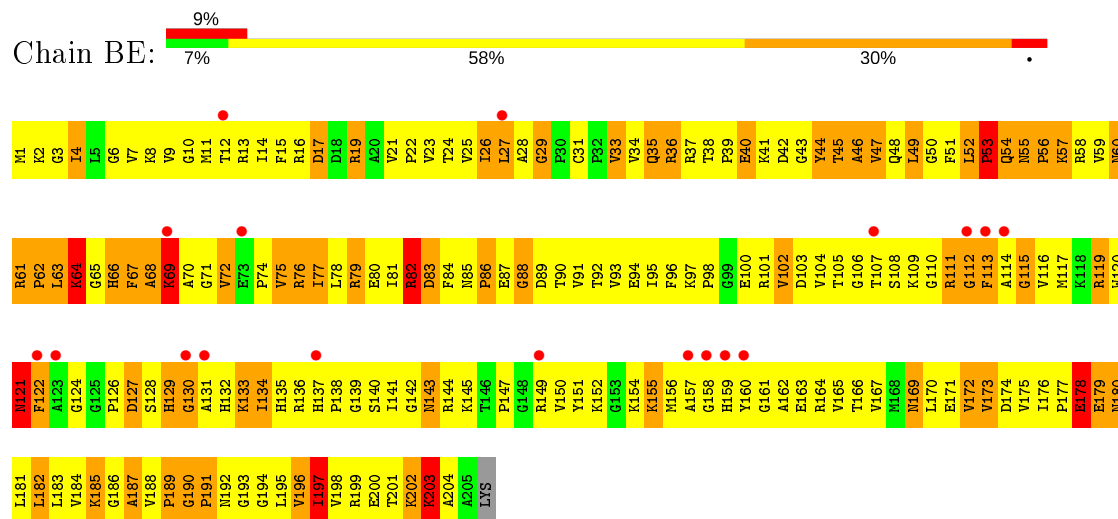
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

Chain BD: 8% 61% 25% 5%

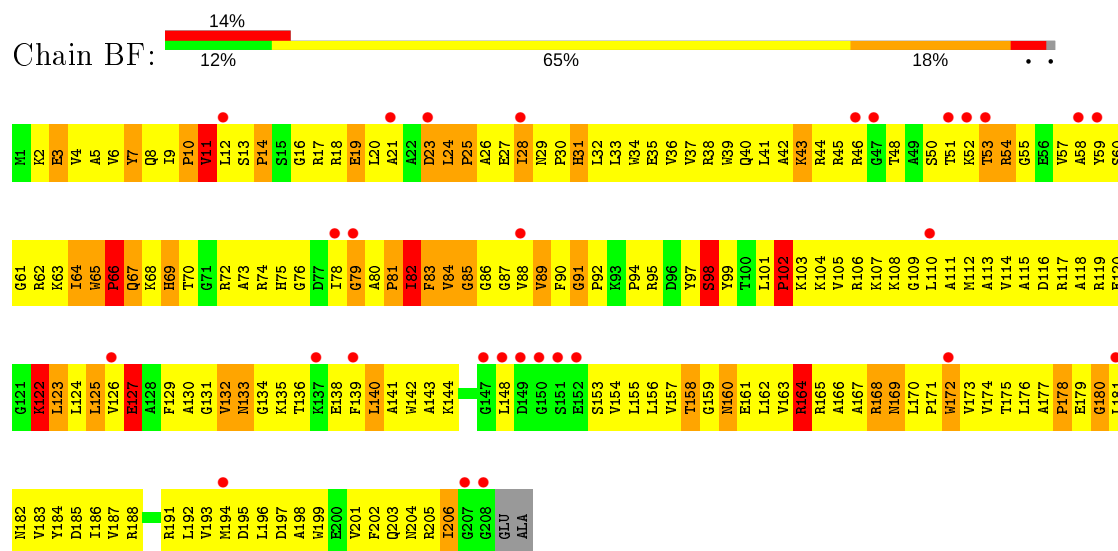




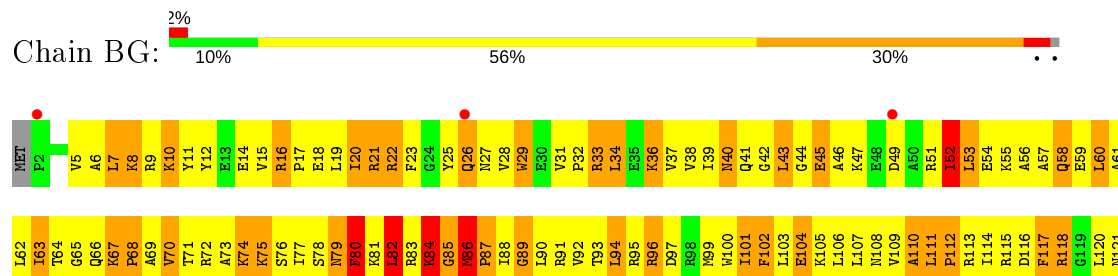
- Molecule 39: 50S RIBOSOMAL PROTEIN L3



- Molecule 40: 50S RIBOSOMAL PROTEIN L4

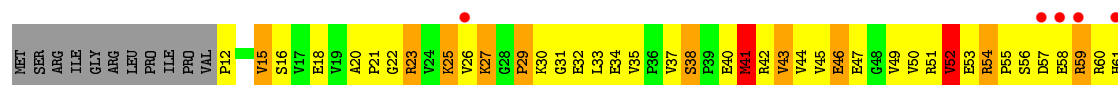
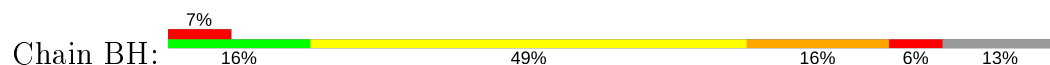


- Molecule 41: 50S RIBOSOMAL PROTEIN L5

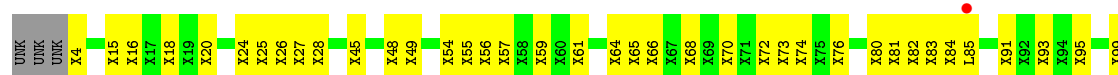




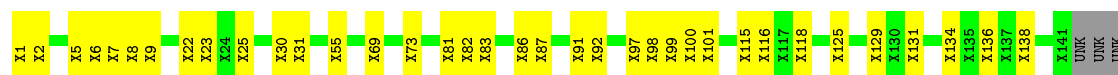
• Molecule 42: 50S RIBOSOMAL PROTEIN L6



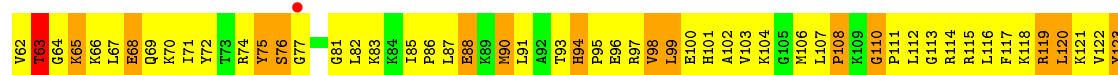
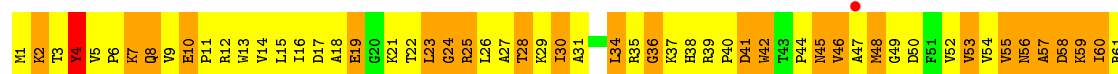
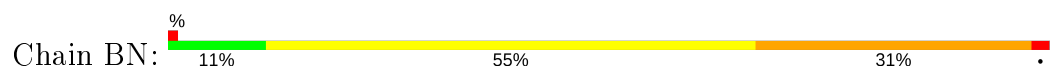
• Molecule 43: 50S RIBOSOMAL PROTEIN L10



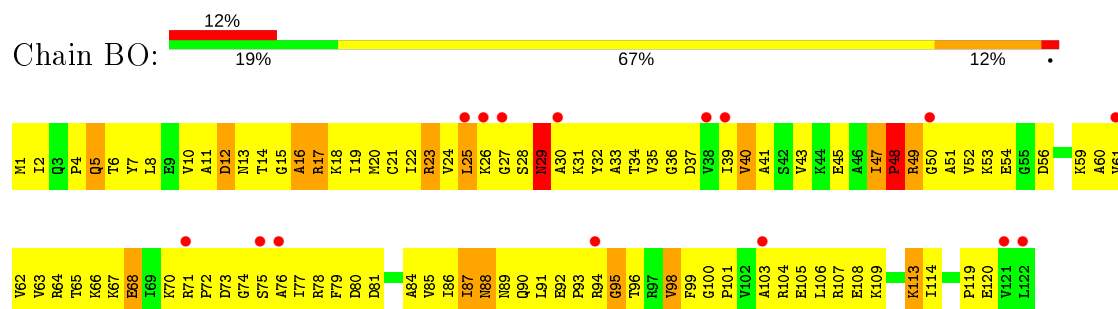
• Molecule 44: 50S RIBOSOMAL PROTEIN L11



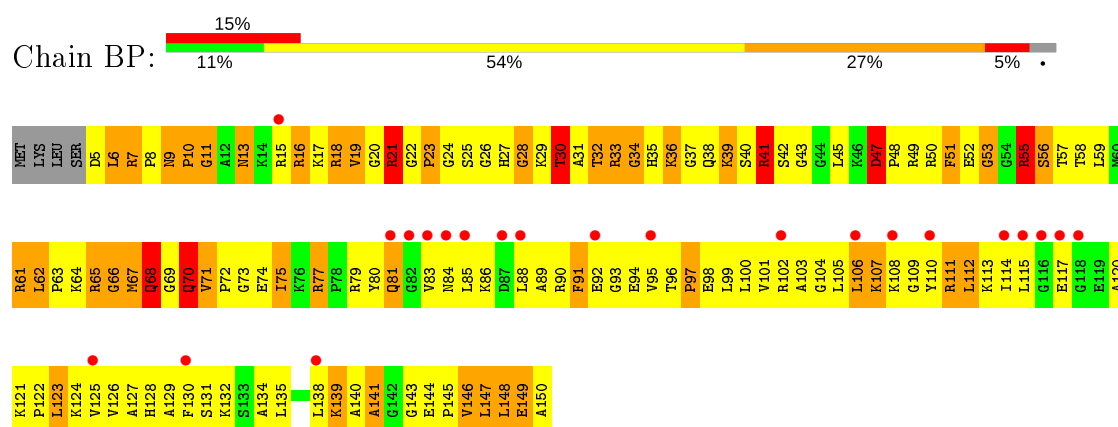
• Molecule 45: 50S RIBOSOMAL PROTEIN L13



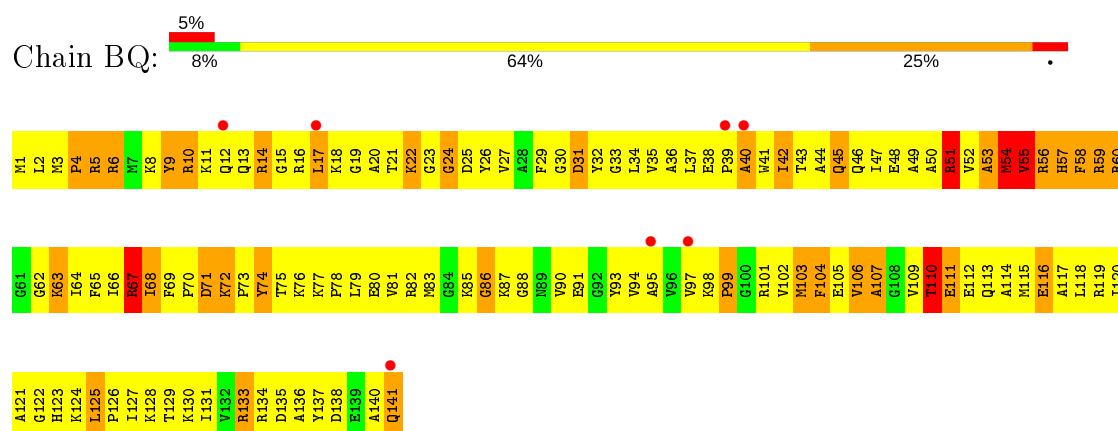
- Molecule 46: 50S RIBOSOMAL PROTEIN L14



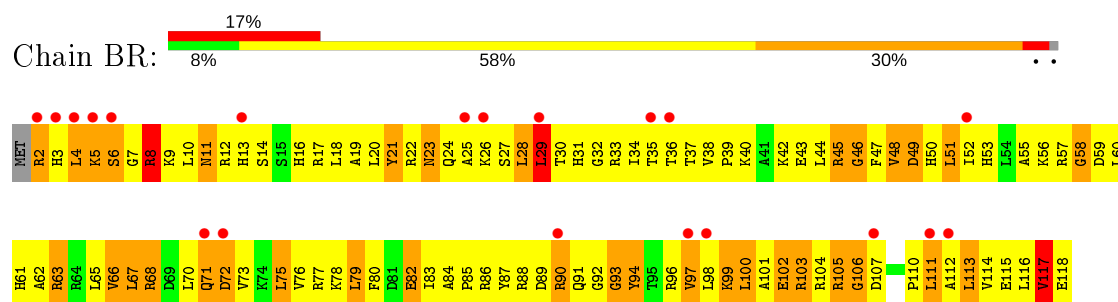
- Molecule 47: 50S RIBOSOMAL PROTEIN L15



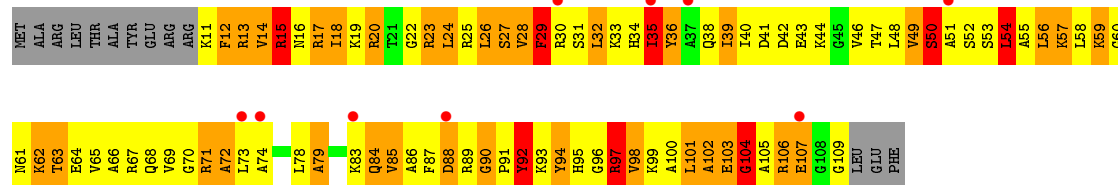
- Molecule 48: 50S RIBOSOMAL PROTEIN L16



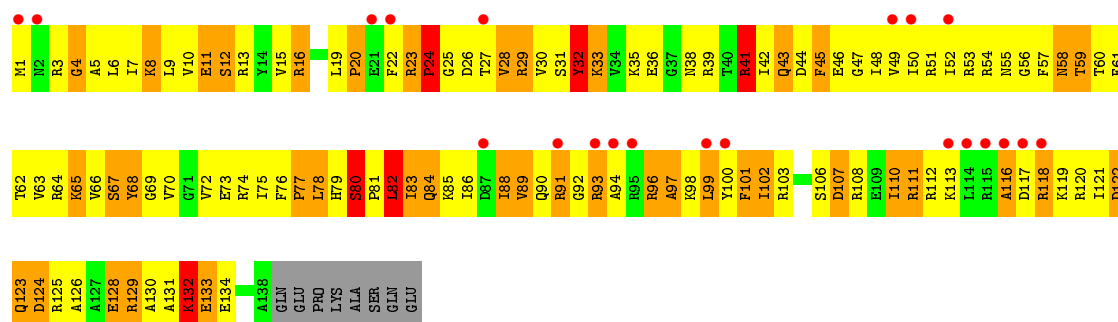
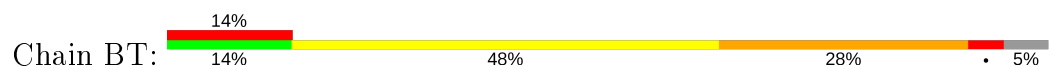
- Molecule 49: 50S RIBOSOMAL PROTEIN L17



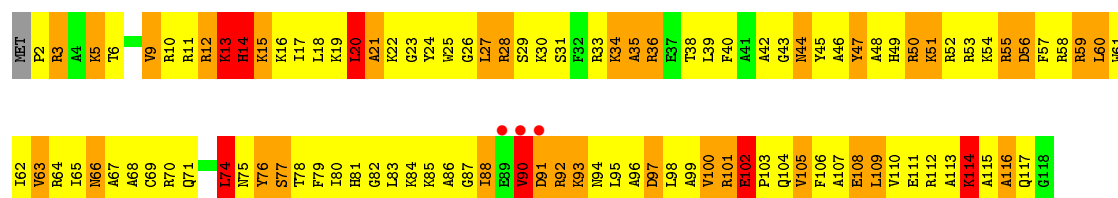
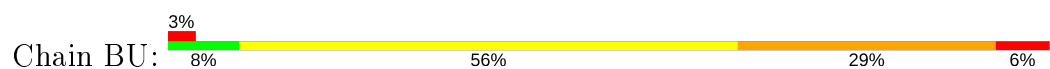
- Molecule 50: 50S RIBOSOMAL PROTEIN L18



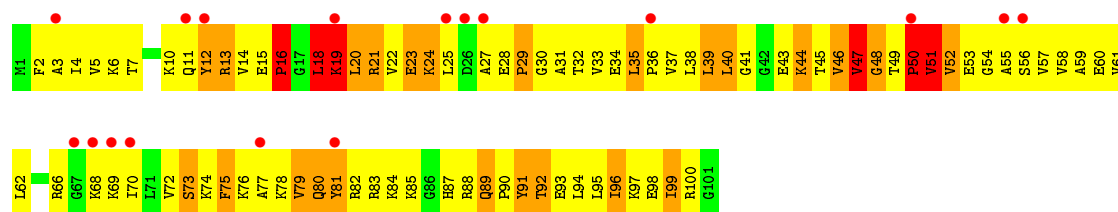
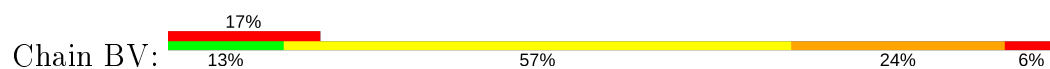
• Molecule 51: 50S RIBOSOMAL PROTEIN L19



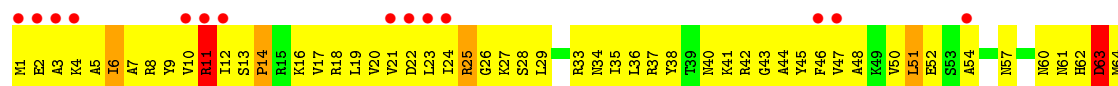
• Molecule 52: 50S RIBOSOMAL PROTEIN L20

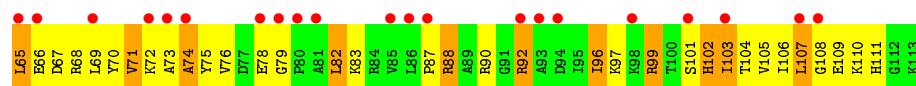


• Molecule 53: 50S RIBOSOMAL PROTEIN L21

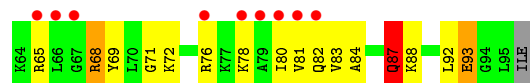
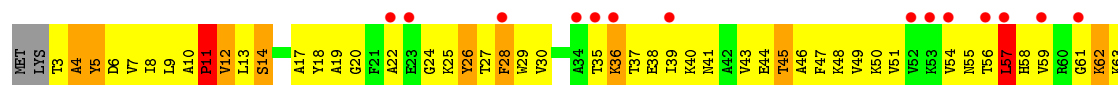


• Molecule 54: 50S RIBOSOMAL PROTEIN L22

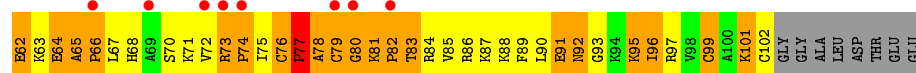
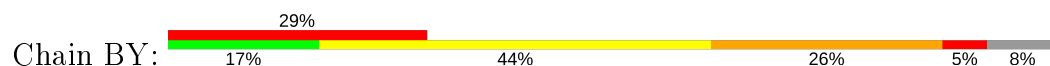




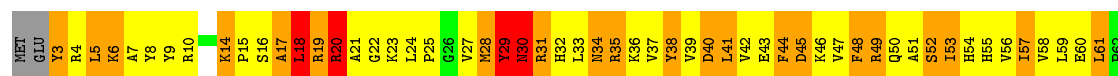
• Molecule 55: 50S RIBOSOMAL PROTEIN L23



• Molecule 56: 50S RIBOSOMAL PROTEIN L24



• Molecule 57: 50S RIBOSOMAL PROTEIN L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	204.70Å 229.30Å 307.00Å 90.00° 90.17° 90.00°	Depositor
Resolution (Å)	44.90 – 3.80 44.91 – 3.60	Depositor EDS
% Data completeness (in resolution range)	98.7 (44.90-3.80) 96.6 (44.91-3.60)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.70 (at 3.57Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.293 , 0.351 0.298 , 0.348	Depositor DCC
R_{free} test set	53888 reflections (2.37%)	wwPDB-VP
Wilson B-factor (Å ²)	110.2	Xtriage
Anisotropy	0.390	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.17 , 37.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.31$, $\langle L^2 \rangle = 0.15$	Xtriage
Estimated twinning fraction	0.166 for h,-k,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	151017	wwPDB-VP
Average B, all atoms (Å ²)	147.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.32% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: GCP

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	0.79	12/36190 (0.0%)	0.89	56/56486 (0.1%)
2	AB	0.62	0/1936	0.96	1/2611 (0.0%)
3	AC	0.60	0/1637	0.93	3/2207 (0.1%)
4	AD	0.50	0/1733	0.86	2/2318 (0.1%)
5	AE	0.63	0/1163	0.94	1/1566 (0.1%)
6	AF	0.56	0/856	0.88	0/1154
7	AG	0.59	0/1276	0.85	0/1709
8	AH	0.56	0/1136	0.91	1/1527 (0.1%)
9	AI	0.56	0/1029	0.83	0/1378
10	AJ	0.59	0/808	0.88	0/1087
11	AK	0.57	0/900	0.89	0/1213
12	AL	0.59	0/987	1.01	2/1322 (0.2%)
13	AM	0.59	0/999	0.95	0/1338
14	AN	0.71	0/501	1.03	1/664 (0.2%)
15	AO	0.65	0/745	0.86	0/992
16	AP	0.53	0/717	0.88	0/965
17	AQ	0.61	0/837	0.92	1/1119 (0.1%)
18	AR	0.60	0/579	0.89	1/768 (0.1%)
19	AS	0.68	0/643	0.91	1/867 (0.1%)
20	AT	0.54	0/765	0.80	0/1007
21	AU	0.70	0/213	0.95	1/279 (0.4%)
22	AV	0.65	0/1832	0.82	0/2855
23	AX	0.66	0/216	0.77	0/335
24	AY	1.05	19/4005 (0.5%)	1.16	32/5407 (0.6%)
25	B0	0.61	0/671	0.98	2/892 (0.2%)
26	B1	0.49	0/739	0.85	0/983
27	B2	0.51	0/600	0.82	0/793
28	B3	0.57	0/473	0.93	0/636
29	B4	0.69	0/350	0.80	0/476
30	B5	0.64	0/473	0.89	0/639
31	B6	0.79	0/440	1.09	2/586 (0.3%)
32	B7	0.53	0/427	0.79	0/563

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
33	B8	0.68	0/516	0.92	0/681
34	B9	0.53	0/310	0.85	0/407
35	BA	0.76	16/69976 (0.0%)	0.86	82/109244 (0.1%)
36	BB	0.76	1/2853 (0.0%)	0.89	5/4451 (0.1%)
37	BC	0.81	4/1775 (0.2%)	0.94	4/2392 (0.2%)
38	BD	0.69	0/2195	1.07	9/2955 (0.3%)
39	BE	0.59	0/1597	0.95	1/2155 (0.0%)
40	BF	0.61	0/1659	0.88	0/2246
41	BG	0.58	0/1499	0.92	3/2016 (0.1%)
42	BH	0.66	0/1211	0.88	0/1636
43	BJ	0.53	0/7	0.70	0/8
45	BN	0.57	0/1132	0.91	1/1527 (0.1%)
46	BO	0.60	0/943	0.90	0/1269
47	BP	0.57	0/1131	1.08	6/1504 (0.4%)
48	BQ	0.63	0/1143	1.00	3/1527 (0.2%)
49	BR	0.49	0/974	0.92	1/1302 (0.1%)
50	BS	0.66	0/779	1.12	6/1038 (0.6%)
51	BT	0.60	0/1156	0.92	3/1544 (0.2%)
52	BU	0.63	0/975	0.91	1/1297 (0.1%)
53	BV	0.54	0/790	0.97	2/1057 (0.2%)
54	BW	0.59	0/907	0.82	0/1216
55	BX	0.63	0/740	0.83	1/995 (0.1%)
56	BY	0.61	0/789	0.90	0/1053
57	BZ	0.62	0/1435	0.95	0/1949
All	All	0.73	52/162368 (0.0%)	0.89	235/242211 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	3	125
9	AI	0	1
11	AK	0	1
17	AQ	0	1
21	AU	0	1
22	AV	0	5
24	AY	0	5
30	B5	0	1
35	BA	3	160
36	BB	0	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
42	BH	0	1
45	BN	0	1
48	BQ	0	1
53	BV	0	1
All	All	6	316

All (52) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	AY	191	TYR	CE2-CZ	11.85	1.53	1.38
24	AY	189	GLU	CG-CD	-10.57	1.36	1.51
24	AY	191	TYR	CD1-CE1	10.46	1.55	1.39
24	AY	504	ILE	C-N	-9.62	1.11	1.34
24	AY	444	LEU	C-N	-9.54	1.12	1.34
1	AA	1318	A	C5-C6	9.29	1.49	1.41
24	AY	191	TYR	CZ-OH	-8.75	1.23	1.37
37	BC	127	MET	CG-SD	8.54	2.03	1.81
24	AY	109	CYS	CB-SG	8.32	1.96	1.82
24	AY	16	PHE	CE2-CZ	8.14	1.52	1.37
35	BA	2458	G	C5-C6	-7.35	1.35	1.42
24	AY	307	MET	CG-SD	7.30	2.00	1.81
1	AA	933	G	N9-C4	7.23	1.43	1.38
35	BA	1930	G	N1-C2	-6.59	1.32	1.37
37	BC	120	MET	CG-SD	6.58	1.98	1.81
37	BC	218	MET	CG-SD	6.56	1.98	1.81
35	BA	671	C	N1-C2	6.52	1.46	1.40
1	AA	1202	G	C5-C6	-6.38	1.35	1.42
35	BA	2106	G	C3'-O3'	6.33	1.51	1.42
35	BA	2457	U	N1-C2	6.32	1.44	1.38
1	AA	1157	A	C5-C6	6.17	1.46	1.41
24	AY	108	CYS	CB-SG	6.01	1.92	1.82
35	BA	2457	U	C2-O2	6.01	1.27	1.22
24	AY	189	GLU	C-O	5.97	1.34	1.23
24	AY	149	ARG	C-O	5.95	1.34	1.23
35	BA	809	G	C3'-O3'	5.88	1.50	1.42
1	AA	1395	C	N1-C2	5.83	1.46	1.40
35	BA	2035	G	C3'-O3'	5.80	1.50	1.42
35	BA	2200	C	N1-C2	5.79	1.46	1.40
24	AY	16	PHE	CE1-CZ	5.61	1.48	1.37
1	AA	573	A	C3'-O3'	5.56	1.50	1.42
35	BA	1940	U	N1-C2	5.54	1.43	1.38
24	AY	321	VAL	CB-CG1	-5.45	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	AY	502	ALA	C-N	5.45	1.46	1.34
35	BA	989	G	N9-C4	5.42	1.42	1.38
1	AA	1324	A	C5-C6	-5.39	1.36	1.41
24	AY	189	GLU	CB-CG	-5.33	1.42	1.52
35	BA	2458	G	N3-C4	-5.25	1.31	1.35
35	BA	207	A	C5-C6	-5.21	1.36	1.41
24	AY	21	HIS	C-O	5.20	1.33	1.23
1	AA	1318	A	N9-C4	5.18	1.41	1.37
35	BA	2029	G	C5-C6	-5.16	1.37	1.42
1	AA	1370	G	N1-C2	5.15	1.41	1.37
24	AY	63	GLU	CB-CG	-5.11	1.42	1.52
1	AA	921	U	N1-C2	5.08	1.43	1.38
35	BA	2392	A	C5-C6	-5.07	1.36	1.41
35	BA	2490	G	N3-C4	-5.06	1.31	1.35
36	BB	56	G	C3'-O3'	5.06	1.49	1.42
37	BC	107	TRP	CB-CG	5.04	1.59	1.50
24	AY	191	TYR	CD2-CE2	5.04	1.47	1.39
1	AA	428	G	C5-C6	5.03	1.47	1.42
1	AA	1231	G	N9-C4	5.02	1.42	1.38

All (235) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	191	TYR	CB-CG-CD1	-18.01	110.19	121.00
24	AY	307	MET	CG-SD-CE	13.35	121.55	100.20
24	AY	319	ARG	NE-CZ-NH1	12.45	126.52	120.30
24	AY	504	ILE	C-N-CA	-12.18	91.26	121.70
1	AA	1498	U	C2'-C3'-O3'	11.78	135.42	109.50
24	AY	191	TYR	CB-CG-CD2	11.08	127.65	121.00
24	AY	191	TYR	CD1-CE1-CZ	-10.61	110.25	119.80
24	AY	504	ILE	O-C-N	10.18	138.99	122.70
24	AY	504	ILE	CA-C-N	-9.86	95.51	117.20
24	AY	319	ARG	NE-CZ-NH2	-9.85	115.38	120.30
35	BA	1799	G	C2'-C3'-O3'	9.79	131.03	109.50
24	AY	126	LEU	CB-CG-CD1	-9.58	94.71	111.00
35	BA	1300	U	C2'-C3'-O3'	9.55	130.51	109.50
53	BV	18	LEU	CA-CB-CG	9.47	137.08	115.30
47	BP	52	GLU	N-CA-C	9.33	136.20	111.00
1	AA	1049	U	C2'-C3'-O3'	9.24	129.84	109.50
24	AY	393	PHE	N-CA-C	9.24	135.96	111.00
35	BA	1819	A	C2'-C3'-O3'	9.18	129.69	109.50
1	AA	1399	C	C2'-C3'-O3'	9.04	129.40	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	428	G	C2'-C3'-O3'	8.97	129.24	109.50
1	AA	961	U	N1-C1'-C2'	-8.78	102.34	112.00
35	BA	1992	G	C2'-C3'-O3'	8.60	128.43	109.50
1	AA	1504	G	C2'-C3'-O3'	8.48	128.17	109.50
1	AA	508	C	C2'-C3'-O3'	8.19	127.51	109.50
1	AA	1325	C	C5'-C4'-C3'	-8.15	102.96	116.00
38	BD	132	PRO	N-CA-C	-8.10	91.05	112.10
35	BA	387	U	C2'-C3'-O3'	8.06	127.23	109.50
24	AY	321	VAL	CG1-CB-CG2	-8.05	98.02	110.90
1	AA	792	A	C2'-C3'-O3'	7.91	126.89	109.50
35	BA	2128	C	N1-C1'-C2'	-7.57	103.67	112.00
38	BD	210	GLY	N-CA-C	-7.50	94.36	113.10
52	BU	74	LEU	CA-CB-CG	7.50	132.54	115.30
35	BA	669	G	N9-C1'-C2'	7.40	123.62	114.00
35	BA	945	A	C1'-O4'-C4'	-7.40	103.98	109.90
1	AA	1529	G	N9-C1'-C2'	7.39	123.61	114.00
35	BA	2346	A	N9-C1'-C2'	7.16	123.31	114.00
24	AY	363	ASP	CB-CG-OD2	-7.14	111.87	118.30
47	BP	28	GLY	N-CA-C	-7.10	95.34	113.10
1	AA	243	A	N9-C1'-C2'	7.09	123.22	114.00
1	AA	686	U	N1-C1'-C2'	7.09	123.22	114.00
1	AA	927	G	N9-C1'-C2'	-7.08	104.22	112.00
35	BA	989	G	O4'-C1'-N9	7.03	113.83	108.20
1	AA	896	C	N1-C1'-C2'	-6.99	104.31	112.00
36	BB	67	G	N9-C1'-C2'	-6.94	104.36	112.00
35	BA	1012	U	N1-C1'-C2'	6.91	122.98	114.00
1	AA	1283	G	N9-C1'-C2'	-6.86	104.46	112.00
24	AY	76	GLN	CA-CB-CG	-6.82	98.40	113.40
35	BA	945	A	C5'-C4'-O4'	6.78	117.23	109.10
37	BC	68	LEU	CA-CB-CG	6.75	130.83	115.30
24	AY	189	GLU	CA-CB-CG	-6.72	98.61	113.40
35	BA	2756	U	C2'-C3'-O3'	6.71	124.44	113.70
35	BA	783	A	N9-C1'-C2'	-6.70	104.63	112.00
1	AA	1159	U	N1-C1'-C2'	6.65	122.64	114.00
35	BA	945	A	N9-C1'-C2'	6.60	122.58	114.00
1	AA	931	C	N1-C1'-C2'	-6.51	104.84	112.00
35	BA	199	A	C5'-C4'-O4'	6.47	116.87	109.10
35	BA	864	G	N9-C1'-C2'	6.42	122.35	114.00
35	BA	1495	A	N9-C1'-C2'	6.42	122.35	114.00
35	BA	2314	C	N1-C1'-C2'	-6.40	104.96	112.00
1	AA	341	C	N1-C1'-C2'	-6.39	104.97	112.00
24	AY	37	GLY	N-CA-C	-6.39	97.13	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	256	A	N9-C1'-C2'	-6.37	104.99	112.00
47	BP	41	ARG	N-CA-C	-6.37	93.81	111.00
49	BR	111	LEU	CA-CB-CG	6.30	129.79	115.30
17	AQ	84	LEU	CA-CB-CG	-6.30	100.81	115.30
35	BA	1248	G	N9-C1'-C2'	6.29	122.18	114.00
48	BQ	33	GLY	N-CA-C	6.28	128.81	113.10
50	BS	54	LEU	N-CA-C	-6.26	94.08	111.00
1	AA	1289	A	N9-C1'-C2'	-6.26	105.12	112.00
35	BA	801	G	N9-C1'-C2'	6.24	122.11	114.00
35	BA	1835	G	C5'-C4'-C3'	-6.23	106.03	116.00
35	BA	527	C	N1-C1'-C2'	6.22	122.09	114.00
1	AA	902	G	N9-C1'-C2'	-6.22	105.16	112.00
1	AA	960	U	N1-C1'-C2'	6.21	122.08	114.00
50	BS	50	SER	N-CA-C	6.21	127.77	111.00
1	AA	1345	U	N1-C1'-C2'	6.19	122.05	114.00
1	AA	197	A	N9-C1'-C2'	6.19	122.05	114.00
1	AA	266	G	C2'-C3'-O3'	6.18	123.59	113.70
47	BP	53	GLY	N-CA-C	-6.17	97.67	113.10
2	AB	51	LEU	CA-CB-CG	-6.17	101.11	115.30
35	BA	654(I)	C	N1-C1'-C2'	6.17	122.02	114.00
38	BD	236	GLY	N-CA-C	-6.15	97.72	113.10
25	B0	13	GLY	N-CA-C	6.15	128.47	113.10
24	AY	191	TYR	CG-CD1-CE1	6.14	126.22	121.30
38	BD	260	ARG	NE-CZ-NH2	-6.14	117.23	120.30
24	AY	324	LYS	CA-CB-CG	-6.13	99.92	113.40
35	BA	1280	G	N9-C1'-C2'	-6.12	105.27	112.00
35	BA	2200	C	C5'-C4'-C3'	-6.12	106.21	116.00
35	BA	1187	G	N9-C1'-C2'	6.11	121.94	114.00
24	AY	392	ASN	C-N-CA	6.06	136.84	121.70
24	AY	393	PHE	CA-C-N	-6.03	103.93	117.20
35	BA	1970	A	C1'-O4'-C4'	-6.00	105.10	109.90
12	AL	119	LYS	N-CA-C	-6.00	94.81	111.00
3	AC	101	LEU	CA-CB-CG	-5.99	101.53	115.30
41	BG	34	LEU	CA-CB-CG	5.98	129.04	115.30
35	BA	1812	A	N9-C1'-C2'	-5.97	105.43	112.00
35	BA	2897	U	C2'-C3'-O3'	5.97	123.25	113.70
51	BT	80	SER	N-CA-C	5.96	127.08	111.00
51	BT	82	LEU	CA-CB-CG	5.95	128.98	115.30
1	AA	724	G	N9-C1'-C2'	-5.94	105.47	112.00
35	BA	479	A	N9-C1'-C2'	5.94	121.72	114.00
5	AE	125	SER	N-CA-C	-5.94	94.97	111.00
35	BA	1847	A	O5'-P-OP1	-5.91	100.38	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	895	G	O4'-C1'-N9	5.90	112.92	108.20
39	BE	49	LEU	CA-CB-CG	5.89	128.85	115.30
48	BQ	72	LYS	N-CA-C	-5.88	95.12	111.00
1	AA	1181	G	N9-C1'-C2'	5.88	121.64	114.00
41	BG	89	GLY	N-CA-C	-5.88	98.40	113.10
3	AC	33	LEU	CA-CB-CG	-5.87	101.79	115.30
35	BA	2187	G	N9-C1'-C2'	-5.87	105.54	112.00
35	BA	2422	A	C2'-C3'-O3'	5.83	123.03	113.70
35	BA	1060	U	C2'-C3'-O3'	5.76	122.92	113.70
3	AC	43	LEU	CA-CB-CG	-5.76	102.05	115.30
35	BA	2821	A	N9-C1'-C2'	-5.75	105.67	112.00
35	BA	1698	A	O4'-C1'-N9	5.74	112.79	108.20
24	AY	393	PHE	CB-CG-CD1	5.71	124.80	120.80
35	BA	2238	G	C5'-C4'-O4'	-5.71	102.25	109.10
41	BG	94	LEU	CA-CB-CG	-5.70	102.18	115.30
55	BX	57	LEU	CA-CB-CG	5.70	128.41	115.30
35	BA	1944	U	N1-C1'-C2'	5.70	121.40	114.00
35	BA	1131	G	N9-C1'-C2'	5.68	121.39	114.00
1	AA	60	A	C2'-C3'-O3'	5.67	122.77	113.70
1	AA	1325	C	C2'-C3'-O3'	5.67	122.77	113.70
31	B6	45	LYS	N-CA-C	5.63	126.21	111.00
37	BC	75	LEU	CA-CB-CG	5.59	128.15	115.30
35	BA	2114	A	N9-C1'-C2'	-5.58	105.86	112.00
1	AA	1302	U	N1-C1'-C2'	5.58	121.25	114.00
35	BA	968	G	N9-C1'-C2'	-5.58	105.87	112.00
35	BA	1689	A	N9-C1'-C2'	-5.58	105.87	112.00
50	BS	39	ILE	N-CA-C	-5.56	95.99	111.00
24	AY	86	LEU	CB-CG-CD2	-5.56	101.55	111.00
25	B0	21	LEU	CA-CB-CG	5.55	128.06	115.30
1	AA	1179	A	N9-C1'-C2'	-5.54	105.91	112.00
36	BB	16	G	N9-C1'-C2'	-5.54	105.91	112.00
35	BA	199	A	C5'-C4'-C3'	5.53	124.85	116.00
36	BB	35	U	N1-C1'-C2'	5.53	121.19	114.00
1	AA	1504	G	OP2-P-O3'	5.52	117.35	105.20
18	AR	40	LEU	CA-CB-CG	-5.52	102.60	115.30
24	AY	260	LEU	CB-CG-CD2	-5.52	101.62	111.00
35	BA	1935	G	N9-C1'-C2'	-5.51	105.93	112.00
1	AA	573	A	N9-C1'-C2'	5.51	121.16	114.00
35	BA	2035	G	C5'-C4'-O4'	5.50	115.70	109.10
1	AA	1188	A	C5'-C4'-C3'	-5.50	107.20	116.00
1	AA	1498	U	N1-C1'-C2'	5.49	121.14	114.00
35	BA	2346	A	O4'-C1'-N9	5.49	112.59	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1395	C	N1-C1'-C2'	5.49	121.13	114.00
35	BA	272(B)	G	N9-C1'-C2'	-5.48	105.97	112.00
35	BA	2791	C	N1-C1'-C2'	5.48	121.12	114.00
35	BA	1963	U	N1-C1'-C2'	5.47	121.11	114.00
38	BD	8	PRO	N-CA-C	5.46	126.30	112.10
31	B6	36	LEU	CA-CB-CG	5.46	127.86	115.30
37	BC	174	PRO	N-CA-C	5.44	126.24	112.10
37	BC	129	ARG	N-CA-C	-5.43	96.33	111.00
35	BA	2110	G	C2'-C3'-O3'	5.43	122.39	113.70
38	BD	211	ARG	N-CA-C	-5.43	96.34	111.00
1	AA	1408	A	C5'-C4'-O4'	-5.42	102.59	109.10
36	BB	75	G	C2'-C3'-O3'	5.41	122.35	113.70
35	BA	2880	C	N1-C1'-C2'	5.38	121.00	114.00
21	AU	15	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	AA	813	U	N1-C1'-C2'	5.37	120.98	114.00
1	AA	770	C	O4'-C1'-N1	5.37	112.49	108.20
1	AA	970	C	O4'-C1'-N1	5.36	112.49	108.20
35	BA	2179	C	OP1-P-O3'	5.35	116.97	105.20
1	AA	1130	A	N9-C1'-C2'	-5.34	106.12	112.00
24	AY	393	PHE	C-N-CA	5.33	135.04	121.70
4	AD	12	CYS	N-CA-C	-5.33	96.61	111.00
38	BD	136	ILE	N-CA-C	-5.33	96.61	111.00
35	BA	2508	G	N9-C1'-C2'	-5.33	106.14	112.00
35	BA	1141	U	N1-C1'-C2'	5.33	120.92	114.00
35	BA	331	A	C2'-C3'-O3'	5.33	122.22	113.70
35	BA	2365	G	N9-C1'-C2'	5.32	120.92	114.00
47	BP	47	ASP	C-N-CD	-5.32	108.89	120.60
1	AA	703	G	OP1-P-O3'	5.32	116.89	105.20
35	BA	443	A	N9-C1'-C2'	5.31	120.91	114.00
53	BV	20	LEU	CA-CB-CG	5.31	127.52	115.30
4	AD	32	ALA	N-CA-C	-5.31	96.67	111.00
35	BA	271(Q)	G	C5'-C4'-C3'	-5.29	107.53	116.00
50	BS	104	GLY	N-CA-C	-5.29	99.87	113.10
35	BA	2027	G	O4'-C1'-N9	5.29	112.43	108.20
24	AY	126	LEU	CB-CG-CD2	5.28	119.98	111.00
1	AA	895	G	C5'-C4'-O4'	5.27	115.43	109.10
1	AA	173	U	N1-C1'-C2'	5.26	120.83	114.00
24	AY	444	LEU	O-C-N	-5.26	114.29	122.70
35	BA	2504	U	N1-C1'-C2'	-5.25	106.22	112.00
35	BA	2035	G	C1'-O4'-C4'	-5.25	105.70	109.90
1	AA	388	G	N9-C1'-C2'	5.24	120.81	114.00
19	AS	15	LEU	CA-CB-CG	5.24	127.35	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AY	393	PHE	CA-C-O	5.24	131.10	120.10
35	BA	1272	A	N9-C1'-C2'	5.23	120.80	114.00
8	AH	79	VAL	N-CA-C	-5.22	96.89	111.00
35	BA	972	G	N9-C1'-C2'	5.22	120.79	114.00
35	BA	1787	A	C5'-C4'-C3'	-5.22	107.65	116.00
35	BA	30	G	N9-C1'-C2'	5.21	120.77	114.00
35	BA	265	A	N9-C1'-C2'	5.21	120.77	114.00
50	BS	15	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	AA	1108	G	OP2-P-O3'	5.20	116.64	105.20
35	BA	1215	G	N9-C1'-C2'	-5.19	106.29	112.00
1	AA	24	U	N1-C1'-C2'	-5.19	106.29	112.00
1	AA	1239	A	C2'-C3'-O3'	5.18	121.99	113.70
47	BP	66	GLY	N-CA-C	-5.18	100.16	113.10
36	BB	56	G	N9-C1'-C2'	5.17	120.72	114.00
35	BA	1558	A	C2'-C3'-O3'	5.17	121.97	113.70
35	BA	748	G	N9-C1'-C2'	5.16	120.71	114.00
51	BT	59	THR	N-CA-C	-5.16	97.07	111.00
1	AA	1281	U	N1-C1'-C2'	5.16	120.70	114.00
24	AY	109	CYS	CA-CB-SG	5.16	123.28	114.00
1	AA	115	G	C2'-C3'-O3'	5.15	121.94	113.70
35	BA	1519	G	C5'-C4'-C3'	-5.15	107.76	116.00
35	BA	989	G	N9-C1'-C2'	5.14	120.68	114.00
38	BD	95	LEU	CA-CB-CG	5.13	127.10	115.30
35	BA	1858	G	N9-C1'-C2'	5.12	120.65	114.00
35	BA	2255	G	N9-C1'-C2'	-5.12	106.37	112.00
1	AA	30	U	C2'-C3'-O3'	5.11	121.88	113.70
50	BS	92	TYR	CA-CB-CG	5.11	123.11	113.40
1	AA	1138	G	N9-C1'-C2'	5.11	120.64	114.00
38	BD	53	PHE	N-CA-C	5.11	124.80	111.00
35	BA	135	G	N9-C1'-C2'	-5.11	106.38	112.00
1	AA	928	G	N9-C1'-C2'	-5.10	106.39	112.00
24	AY	393	PHE	CB-CG-CD2	-5.10	117.23	120.80
35	BA	613	G	C5'-C4'-O4'	-5.09	102.99	109.10
24	AY	490	GLU	N-CA-C	-5.08	97.27	111.00
1	AA	167	G	N9-C1'-C2'	-5.07	106.42	112.00
35	BA	2035	G	N9-C1'-C2'	5.07	120.59	114.00
35	BA	783	A	C4'-C3'-O3'	5.07	123.14	113.00
35	BA	1300	U	C4'-C3'-O3'	5.07	123.13	113.00
14	AN	31	ARG	NE-CZ-NH2	-5.05	117.78	120.30
1	AA	362	G	N9-C1'-C2'	-5.04	106.46	112.00
24	AY	166	CYS	CA-CB-SG	-5.04	104.93	114.00
24	AY	188	ASP	CB-CG-OD2	-5.04	113.77	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	576	U	C5'-C4'-C3'	-5.03	107.95	116.00
48	BQ	5	ARG	N-CA-C	-5.03	97.42	111.00
12	AL	43	VAL	N-CA-C	5.01	124.53	111.00
45	BN	41	ASP	N-CA-C	-5.01	97.47	111.00
1	AA	508	C	C4'-C3'-C2'	5.01	107.61	102.60
35	BA	1277	G	N9-C1'-C2'	-5.00	106.50	112.00

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1049	U	C3'
1	AA	1399	C	C3'
1	AA	1498	U	C3'
35	BA	1300	U	C3'
35	BA	1799	G	C3'
35	BA	1819	A	C3'

All (316) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1048	G	Sidechain
1	AA	1056	U	Sidechain
1	AA	1074	G	Sidechain
1	AA	1077	G	Sidechain
1	AA	1084	G	Sidechain
1	AA	1085	U	Sidechain
1	AA	1095	U	Sidechain
1	AA	1104	G	Sidechain
1	AA	1118	C	Sidechain
1	AA	1124	G	Sidechain
1	AA	1126	U	Sidechain
1	AA	1136	U	Sidechain
1	AA	1138	G	Sidechain
1	AA	1149	C	Sidechain
1	AA	1154	G	Sidechain
1	AA	1166	G	Sidechain
1	AA	1174	G	Sidechain
1	AA	1181	G	Sidechain
1	AA	1182	G	Sidechain
1	AA	1186	G	Sidechain
1	AA	119	A	Sidechain
1	AA	1194	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1196	U	Sidechain
1	AA	12	U	Sidechain
1	AA	1205	U	Sidechain
1	AA	1216	G	Sidechain
1	AA	1220	G	Sidechain
1	AA	1225	A	Sidechain
1	AA	1231	G	Sidechain
1	AA	1235	U	Sidechain
1	AA	1268	A	Sidechain
1	AA	1277	C	Sidechain
1	AA	1281	U	Sidechain
1	AA	1283	G	Sidechain
1	AA	1300	G	Sidechain
1	AA	1305	G	Sidechain
1	AA	1309	G	Sidechain
1	AA	1317	C	Sidechain
1	AA	1319	A	Sidechain
1	AA	1322	C	Sidechain
1	AA	1323	G	Sidechain
1	AA	1331	G	Sidechain
1	AA	1338	G	Sidechain
1	AA	1345	U	Sidechain
1	AA	1361	G	Sidechain
1	AA	1364	U	Sidechain
1	AA	1368	G	Sidechain
1	AA	1370	G	Sidechain
1	AA	1374	A	Sidechain
1	AA	1393	U	Sidechain
1	AA	1396	A	Sidechain
1	AA	1408	A	Sidechain
1	AA	1409	C	Sidechain
1	AA	1442	G	Sidechain
1	AA	1481	U	Sidechain
1	AA	1498	U	Sidechain
1	AA	1501	C	Sidechain
1	AA	1512	U	Sidechain
1	AA	1519	A	Sidechain
1	AA	1528	U	Sidechain
1	AA	17	U	Sidechain
1	AA	19	C	Sidechain
1	AA	197	A	Sidechain
1	AA	226	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	239	U	Sidechain
1	AA	253	U	Sidechain
1	AA	257	G	Sidechain
1	AA	266	G	Sidechain
1	AA	28	G	Sidechain
1	AA	281	G	Sidechain
1	AA	310	G	Sidechain
1	AA	345	C	Sidechain
1	AA	350	G	Sidechain
1	AA	375	U	Sidechain
1	AA	404	U	Sidechain
1	AA	405	U	Sidechain
1	AA	429	U	Sidechain
1	AA	498	U	Sidechain
1	AA	510	A	Sidechain
1	AA	523	A	Sidechain
1	AA	549	C	Sidechain
1	AA	556	C	Sidechain
1	AA	563	A	Sidechain
1	AA	578	C	Sidechain
1	AA	653	A	Sidechain
1	AA	657	G	Sidechain
1	AA	676	A	Sidechain
1	AA	697	U	Sidechain
1	AA	710	G	Sidechain
1	AA	713	G	Sidechain
1	AA	724	G	Sidechain
1	AA	740	U	Sidechain
1	AA	746	A	Sidechain
1	AA	763	G	Sidechain
1	AA	768	A	Sidechain
1	AA	782	A	Sidechain
1	AA	793	U	Sidechain
1	AA	813	U	Sidechain
1	AA	823	G	Sidechain
1	AA	827	U	Sidechain
1	AA	835	U	Sidechain
1	AA	853	G	Sidechain
1	AA	855	G	Sidechain
1	AA	865	A	Sidechain
1	AA	866	C	Sidechain
1	AA	867	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	870	U	Sidechain
1	AA	871	U	Sidechain
1	AA	880	C	Sidechain
1	AA	886	G	Sidechain
1	AA	891	U	Sidechain
1	AA	902	G	Sidechain
1	AA	908	A	Sidechain
1	AA	909	A	Sidechain
1	AA	914	A	Sidechain
1	AA	917	G	Sidechain
1	AA	921	U	Sidechain
1	AA	931	C	Sidechain
1	AA	940	C	Sidechain
1	AA	955	U	Sidechain
1	AA	96	U	Sidechain
1	AA	961	U	Sidechain
1	AA	971	G	Sidechain
1	AA	978	A	Sidechain
1	AA	980	C	Sidechain
9	AI	114	TYR	Sidechain
11	AK	25	TYR	Sidechain
17	AQ	95	TYR	Sidechain
21	AU	18	TYR	Sidechain
22	AV	30	G	Sidechain
22	AV	36	U	Sidechain
22	AV	38	A	Sidechain
22	AV	58	A	Sidechain
22	AV	76	A	Sidechain
24	AY	186	TYR	Sidechain
24	AY	189	GLU	Mainchain
24	AY	360	TYR	Sidechain
24	AY	444	LEU	Mainchain
24	AY	504	ILE	Mainchain
30	B5	51	TYR	Sidechain
35	BA	1130	U	Sidechain
35	BA	1140	C	Sidechain
35	BA	1187	G	Sidechain
35	BA	1199	U	Sidechain
35	BA	1211	U	Sidechain
35	BA	1215	G	Sidechain
35	BA	1238	G	Sidechain
35	BA	1277	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	1285	G	Sidechain
35	BA	1297	C	Sidechain
35	BA	1326	U	Sidechain
35	BA	1336	A	Sidechain
35	BA	1340	U	Sidechain
35	BA	1415	U	Sidechain
35	BA	1425	G	Sidechain
35	BA	1453	U	Sidechain
35	BA	147	U	Sidechain
35	BA	1498	C	Sidechain
35	BA	1514	U	Sidechain
35	BA	1523	U	Sidechain
35	BA	1528	A	Sidechain
35	BA	1567	A	Sidechain
35	BA	1623	G	Sidechain
35	BA	1660	C	Sidechain
35	BA	1669	A	Sidechain
35	BA	1697	G	Sidechain
35	BA	1768	U	Sidechain
35	BA	1777	U	Sidechain
35	BA	1779	U	Sidechain
35	BA	1781	C	Sidechain
35	BA	1783	A	Sidechain
35	BA	1802	A	Sidechain
35	BA	1807	G	Sidechain
35	BA	1820	U	Sidechain
35	BA	1833	U	Sidechain
35	BA	1834	U	Sidechain
35	BA	1842	G	Sidechain
35	BA	1845	G	Sidechain
35	BA	1854	A	Sidechain
35	BA	187	G	Sidechain
35	BA	1896	G	Sidechain
35	BA	1908	C	Sidechain
35	BA	1919	A	Sidechain
35	BA	1929	G	Sidechain
35	BA	1930	G	Sidechain
35	BA	1931	U	Sidechain
35	BA	1935	G	Sidechain
35	BA	1947	C	Sidechain
35	BA	1954	G	Sidechain
35	BA	1959	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	197	A	Sidechain
35	BA	1971	A	Sidechain
35	BA	1981	A	Sidechain
35	BA	1984	G	Sidechain
35	BA	1993	U	Sidechain
35	BA	1997	G	Sidechain
35	BA	1998	G	Sidechain
35	BA	2011	U	Sidechain
35	BA	2015	A	Sidechain
35	BA	2034	U	Sidechain
35	BA	2040	C	Sidechain
35	BA	206	U	Sidechain
35	BA	2064	C	Sidechain
35	BA	2074	U	Sidechain
35	BA	2102	U	Sidechain
35	BA	2128	C	Sidechain
35	BA	215	G	Sidechain
35	BA	2156	G	Sidechain
35	BA	2172	U	Sidechain
35	BA	2189	U	Sidechain
35	BA	2237	G	Sidechain
35	BA	229	A	Sidechain
35	BA	2314	C	Sidechain
35	BA	2317	C	Sidechain
35	BA	2331	G	Sidechain
35	BA	2334	G	Sidechain
35	BA	2337	G	Sidechain
35	BA	2344	U	Sidechain
35	BA	2357	U	Sidechain
35	BA	2358	G	Sidechain
35	BA	2372	G	Sidechain
35	BA	2381	C	Sidechain
35	BA	2389	G	Sidechain
35	BA	2405	G	Sidechain
35	BA	2412	A	Sidechain
35	BA	2419	U	Sidechain
35	BA	2429	G	Sidechain
35	BA	2432	A	Sidechain
35	BA	2446	G	Sidechain
35	BA	2449	U	Sidechain
35	BA	2469	A	Sidechain
35	BA	2471	C	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2481	G	Sidechain
35	BA	249	C	Sidechain
35	BA	2490	G	Sidechain
35	BA	2492	U	Sidechain
35	BA	2494	G	Sidechain
35	BA	2496	C	Sidechain
35	BA	2504	U	Sidechain
35	BA	2505	G	Sidechain
35	BA	255	A	Sidechain
35	BA	2552	U	Sidechain
35	BA	2557	G	Sidechain
35	BA	2562	U	Sidechain
35	BA	2567	G	Sidechain
35	BA	257	A	Sidechain
35	BA	2576	G	Sidechain
35	BA	2579	C	Sidechain
35	BA	2582	G	Sidechain
35	BA	2599	G	Sidechain
35	BA	2607	G	Sidechain
35	BA	2614	A	Sidechain
35	BA	263	C	Sidechain
35	BA	2689	U	Sidechain
35	BA	2706	G	Sidechain
35	BA	2708	G	Sidechain
35	BA	271(Q)	G	Sidechain
35	BA	271(Y)	U	Sidechain
35	BA	272(B)	G	Sidechain
35	BA	2822	G	Sidechain
35	BA	2836	U	Sidechain
35	BA	2861	G	Sidechain
35	BA	33	U	Sidechain
35	BA	35	G	Sidechain
35	BA	384	U	Sidechain
35	BA	396	G	Sidechain
35	BA	463	G	Sidechain
35	BA	467	G	Sidechain
35	BA	491	G	Sidechain
35	BA	530	G	Sidechain
35	BA	567	A	Sidechain
35	BA	604	G	Sidechain
35	BA	609	A	Sidechain
35	BA	700	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	710	G	Sidechain
35	BA	762	U	Sidechain
35	BA	767	U	Sidechain
35	BA	793	A	Sidechain
35	BA	811	U	Sidechain
35	BA	828	U	Sidechain
35	BA	833	U	Sidechain
35	BA	838	C	Sidechain
35	BA	851	U	Sidechain
35	BA	864	G	Sidechain
35	BA	869	G	Sidechain
35	BA	898	C	Sidechain
35	BA	905	U	Sidechain
35	BA	908	C	Sidechain
35	BA	918	A	Sidechain
35	BA	925	C	Sidechain
35	BA	926	A	Sidechain
35	BA	930	U	Sidechain
35	BA	946	G	Sidechain
35	BA	965	C	Sidechain
35	BA	968	G	Sidechain
35	BA	975(A)	G	Sidechain
35	BA	977	G	Sidechain
35	BA	989	G	Sidechain
35	BA	990	A	Sidechain
35	BA	999	U	Sidechain
36	BB	16	G	Sidechain
36	BB	35	U	Sidechain
36	BB	5	C	Sidechain
36	BB	64	C	Sidechain
36	BB	67	G	Sidechain
36	BB	69	G	Sidechain
36	BB	73	A	Sidechain
36	BB	77	U	Sidechain
36	BB	78	A	Sidechain
36	BB	79	C	Sidechain
36	BB	82	G	Sidechain
36	BB	90	A	Sidechain
42	BH	83	TYR	Sidechain
45	BN	4	TYR	Sidechain
48	BQ	9	TYR	Sidechain
53	BV	81	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	32329	0	16318	2580	0
2	AB	1901	0	1951	513	1
3	AC	1613	0	1677	306	0
4	AD	1703	0	1767	335	0
5	AE	1147	0	1207	231	0
6	AF	843	0	857	144	0
7	AG	1257	0	1296	177	0
8	AH	1116	0	1177	205	0
9	AI	1011	0	1043	205	0
10	AJ	795	0	840	196	0
11	AK	885	0	904	152	0
12	AL	971	0	1057	217	0
13	AM	988	0	1059	192	0
14	AN	492	0	533	153	0
15	AO	734	0	771	229	0
16	AP	701	0	720	131	0
17	AQ	824	0	891	158	0
18	AR	574	0	644	122	0
19	AS	630	0	652	209	0
20	AT	763	0	861	150	0
21	AU	209	0	221	48	0
22	AV	1640	0	837	195	0
23	AX	192	0	99	22	0
24	AY	3934	0	3922	1256	0
25	B0	662	0	688	138	0
26	B1	732	0	808	131	0
27	B2	598	0	653	126	0
28	B3	468	0	523	108	0
29	B4	341	0	339	89	0
30	B5	459	0	480	131	0
31	B6	433	0	461	109	0
32	B7	419	0	467	110	0
33	B8	508	0	576	154	0
34	B9	307	0	338	70	0
35	BA	62477	0	31497	5283	0
36	BB	2551	0	1295	229	0
37	BC	1742	0	1794	377	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
38	BD	2145	0	2234	780	0
39	BE	1564	0	1629	448	0
40	BF	1624	0	1677	415	0
41	BG	1474	0	1535	340	0
42	BH	1189	0	1247	282	0
43	BJ	654	0	157	36	0
44	BK	701	0	168	41	0
45	BN	1105	0	1180	270	0
46	BO	933	0	996	182	0
47	BP	1114	0	1187	361	0
48	BQ	1122	0	1179	291	0
49	BR	960	0	1021	236	0
50	BS	771	0	832	206	0
51	BT	1142	0	1202	332	0
52	BU	958	0	1015	317	0
53	BV	779	0	852	219	0
54	BW	896	0	953	173	0
55	BX	726	0	778	114	0
56	BY	776	0	870	193	0
57	BZ	1403	0	1432	371	0
58	AY	32	0	14	11	0
All	All	151017	0	103381	18971	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 75.

All (18971) 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:AY:111:MET:CE	24:AY:139:THR:HG23	1.18	1.62
24:AY:331:LEU:CD2	24:AY:379:PHE:HD2	1.19	1.51
24:AY:331:LEU:HD22	24:AY:379:PHE:CD2	1.46	1.47
37:BC:127:MET:SD	37:BC:127:MET:CG	2.03	1.45
24:AY:135:THR:CG2	24:AY:136:PRO:HD2	1.44	1.45
24:AY:184:HIS:ND1	24:AY:191:TYR:HE1	1.18	1.38
24:AY:296:PHE:CG	24:AY:331:LEU:HD11	1.57	1.38
24:AY:184:HIS:ND1	24:AY:191:TYR:CE1	1.91	1.37
24:AY:109:CYS:HB2	24:AY:137:ILE:CG2	1.56	1.34
24:AY:473:TRP:CH2	24:AY:500:ASN:HB2	1.62	1.33
24:AY:193:TYR:CB	24:AY:263:PHE:HD1	1.42	1.32
24:AY:181:GLY:HA2	24:AY:263:PHE:CE1	1.65	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:111:MET:HE1	24:AY:139:THR:CG2	1.62	1.28
24:AY:331:LEU:CD2	24:AY:379:PHE:CD2	2.10	1.27
1:AA:951:G:H2'	1:AA:952:U:C6	1.70	1.24
24:AY:111:MET:CE	24:AY:139:THR:CG2	2.12	1.24
24:AY:183:TYR:HE2	24:AY:189:GLU:N	1.34	1.24
35:BA:1922:G:O2'	35:BA:1923:U:H5'	1.33	1.24
35:BA:782:A:C2	38:BD:226:MET:HG2	1.73	1.24
35:BA:1947:C:C2'	35:BA:1948:G:H5''	1.68	1.23
38:BD:60:ARG:HD2	38:BD:86:PRO:CB	1.69	1.23
24:AY:134:ASP:OD1	24:AY:249:GLY:HA3	1.37	1.22
42:BH:33:LEU:HD12	42:BH:75:ALA:O	1.38	1.21
24:AY:109:CYS:CB	24:AY:137:ILE:HG23	1.71	1.21
24:AY:138:LEU:HD23	24:AY:253:PRO:HG3	1.21	1.20
38:BD:85:ASP:OD1	38:BD:88:ARG:HD2	1.39	1.20
24:AY:331:LEU:HB3	24:AY:379:PHE:CE2	1.77	1.19
24:AY:369:ASN:HD22	24:AY:373:ILE:HG12	1.04	1.19
35:BA:2744:G:N2	42:BH:143:GLN:HE22	1.39	1.19
1:AA:673:G:H2'	1:AA:674:G:C8	1.77	1.18
35:BA:2134:A:H61	35:BA:2157:G:H1'	1.08	1.18
24:AY:255:PHE:CZ	24:AY:275:TRP:CZ3	2.32	1.18
53:BV:16:PRO:O	53:BV:96:ILE:HG12	1.43	1.18
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.06	1.17
23:AX:14:A:H3'	23:AX:15:A:H5''	1.19	1.17
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	1.44	1.17
24:AY:170:THR:HG22	24:AY:184:HIS:HA	1.22	1.17
35:BA:2472:G:H5'	35:BA:2473:U:H5''	1.26	1.16
35:BA:2014:A:H2'	35:BA:2015:A:N7	1.58	1.16
24:AY:184:HIS:CE1	24:AY:191:TYR:CE1	2.34	1.16
38:BD:13:ARG:HG3	38:BD:16:MET:SD	1.84	1.16
38:BD:92:ILE:HG22	38:BD:106:ILE:HA	1.28	1.16
24:AY:74:VAL:CG2	24:AY:87:LEU:HD23	1.73	1.16
2:AB:220:ASP:HA	2:AB:223:ILE:HD12	1.26	1.16
47:BP:47:ASP:HB3	47:BP:48:PRO:HA	1.25	1.16
57:BZ:152:ALA:HB1	57:BZ:167:PRO:HB2	1.25	1.16
31:B6:52:VAL:HG22	31:B6:53:LYS:H	1.09	1.15
35:BA:1911:U:H2'	35:BA:1918:A:N1	1.58	1.15
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.26	1.15
42:BH:106:THR:HG21	42:BH:112:PRO:CA	1.76	1.15
11:AK:126:ARG:HH11	11:AK:126:ARG:HB3	1.11	1.15
15:AO:54:ARG:HG3	15:AO:58:MET:CE	1.75	1.15
35:BA:1925:C:C2'	35:BA:1926:U:H5''	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:101:ARG:HD2	24:AY:390:ILE:HG12	1.23	1.15
35:BA:1947:C:H2'	35:BA:1948:G:C5'	1.76	1.15
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	1.28	1.14
35:BA:914:C:H2'	35:BA:915:C:H5'	1.26	1.14
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.17	1.13
51:BT:20:PRO:HD2	51:BT:85:LYS:HB2	1.29	1.13
24:AY:189:GLU:HG3	24:AY:189:GLU:O	1.45	1.13
38:BD:176:ARG:HG2	38:BD:176:ARG:HH11	0.98	1.13
22:AV:61:C:H3'	22:AV:62:C:H5''	1.15	1.13
24:AY:164:ILE:CD1	24:AY:252:THR:HG23	1.79	1.13
48:BQ:134:ARG:NH1	57:BZ:122:ARG:HH21	1.43	1.13
24:AY:11:ALA:HA	24:AY:278:ALA:HB1	1.22	1.13
24:AY:473:TRP:CZ3	24:AY:500:ASN:HB3	1.83	1.13
35:BA:2605:U:H2'	35:BA:2606:C:C6	1.83	1.13
45:BN:34:LEU:HD21	45:BN:120:LEU:HD23	1.29	1.13
21:AU:10:ARG:HA	21:AU:13:ILE:HD12	1.30	1.13
12:AL:36:VAL:HG11	24:AY:406:PRO:HB3	1.25	1.13
24:AY:421:GLU:O	24:AY:422:GLU:HG3	1.49	1.13
54:BW:14:PRO:HG2	54:BW:78:GLU:HG3	1.27	1.13
10:AJ:50:ILE:HA	10:AJ:60:ARG:HG2	1.31	1.12
52:BU:101:ARG:O	52:BU:103:PRO:HD3	1.46	1.12
24:AY:307:MET:SD	24:AY:307:MET:O	2.07	1.12
46:BO:61:VAL:HG12	46:BO:87:ILE:HD11	1.31	1.12
24:AY:181:GLY:CA	24:AY:263:PHE:HE1	1.63	1.12
24:AY:473:TRP:HZ3	24:AY:500:ASN:HB3	1.14	1.12
25:B0:43:THR:H	35:BA:2331:G:H4'	1.04	1.12
56:BY:7:VAL:HB	56:BY:8:LYS:HD2	1.31	1.12
55:BX:12:VAL:HB	55:BX:17:ALA:HB1	1.21	1.12
1:AA:1386:G:H2'	1:AA:1387:G:H5''	1.32	1.12
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.30	1.12
24:AY:193:TYR:CB	24:AY:263:PHE:CD1	2.31	1.12
38:BD:26:LYS:NZ	38:BD:113:VAL:HG21	1.65	1.12
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.27	1.11
24:AY:222:ASP:O	24:AY:226:GLN:HB2	1.47	1.11
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.20	1.11
38:BD:147:LEU:H	38:BD:154:LYS:HD2	1.02	1.11
53:BV:96:ILE:H	53:BV:96:ILE:HD13	1.14	1.11
2:AB:75:LYS:O	2:AB:78:GLN:HG3	1.48	1.11
24:AY:135:THR:HG23	24:AY:136:PRO:CD	1.79	1.11
24:AY:138:LEU:CD2	24:AY:253:PRO:HG3	1.78	1.11
38:BD:13:ARG:HA	38:BD:16:MET:HG2	1.17	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:126:VAL:HG11	40:BF:142:TRP:HH2	1.11	1.11
40:BF:6:VAL:HG12	40:BF:7:TYR:H	1.07	1.11
6:AF:25:ILE:HA	6:AF:28:ARG:HH11	1.08	1.11
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.29	1.11
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.29	1.11
24:AY:134:ASP:OD1	24:AY:249:GLY:CA	1.99	1.11
38:BD:24:ILE:HD11	38:BD:91:ARG:HB3	1.23	1.11
48:BQ:44:ALA:HA	48:BQ:47:ILE:HD12	1.11	1.11
12:AL:126:LYS:HB3	24:AY:487:ARG:HH21	0.96	1.10
27:B2:25:VAL:HG22	27:B2:60:LEU:HD13	1.32	1.10
35:BA:1061:U:H4'	35:BA:1070:A:C1'	1.81	1.10
35:BA:1919:A:H2'	35:BA:1920:C:H5''	1.30	1.10
4:AD:99:SER:HB3	4:AD:139:ARG:HG3	1.16	1.10
24:AY:181:GLY:CA	24:AY:263:PHE:CE1	2.33	1.10
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.30	1.10
1:AA:975:A:H4'	1:AA:976:G:H5''	1.30	1.10
24:AY:307:MET:HG2	24:AY:312:ARG:HA	1.25	1.10
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	1.26	1.10
35:BA:330:A:H2	35:BA:1210:A:H2'	1.16	1.10
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.28	1.10
51:BT:90:GLN:HG2	51:BT:120:ARG:HH22	1.13	1.10
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.30	1.10
35:BA:1270:C:H5''	35:BA:1271:G:H5'	1.21	1.10
24:AY:263:PHE:HD2	24:AY:263:PHE:C	1.54	1.10
26:B1:11:ARG:HB3	26:B1:12:PRO:HD2	1.27	1.10
38:BD:201:HIS:ND1	38:BD:204:ILE:HG21	1.67	1.10
24:AY:308:ASP:N	24:AY:309:PRO:HD2	1.65	1.09
24:AY:473:TRP:CH2	24:AY:500:ASN:CB	2.34	1.09
35:BA:2159:G:H2'	35:BA:2160:G:H5''	1.30	1.09
49:BR:48:VAL:HA	49:BR:51:LEU:HD22	1.34	1.09
42:BH:132:ARG:HG2	42:BH:133:VAL:N	1.63	1.09
50:BS:13:ARG:HG3	50:BS:14:VAL:H	1.04	1.09
55:BX:8:ILE:HA	55:BX:30:VAL:HG12	1.31	1.09
24:AY:193:TYR:HB3	24:AY:263:PHE:HD1	1.17	1.09
25:B0:27:GLU:HB3	25:B0:68:GLU:HA	1.29	1.09
35:BA:797:C:H2'	35:BA:798:G:H8	1.08	1.09
12:AL:126:LYS:HB3	24:AY:487:ARG:NH2	1.66	1.09
12:AL:36:VAL:HG21	24:AY:406:PRO:HG2	1.17	1.09
24:AY:105:ALA:HB1	24:AY:319:ARG:HD3	1.30	1.09
24:AY:255:PHE:CZ	24:AY:275:TRP:CH2	2.39	1.09
35:BA:143:G:H1'	55:BX:37:THR:HG21	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:12:THR:HB	56:BY:75:ILE:HG21	1.34	1.09
4:AD:59:ARG:CZ	4:AD:59:ARG:HA	1.82	1.09
24:AY:113:ILE:HG22	24:AY:114:ASP:H	1.04	1.09
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.29	1.09
46:BO:2:ILE:HB	46:BO:33:ALA:HB3	1.31	1.09
51:BT:51:ARG:HG2	51:BT:62:THR:OG1	1.53	1.09
24:AY:443:VAL:HG23	24:AY:444:LEU:H	1.06	1.09
11:AK:30:VAL:HG21	11:AK:68:ALA:HB2	1.35	1.09
35:BA:1844:C:H2'	35:BA:1845:G:H5'	1.31	1.09
27:B2:50:ILE:HG21	35:BA:61:G:H5'	1.27	1.08
35:BA:2593:U:H2'	35:BA:2594:C:C6	1.87	1.08
46:BO:86:ILE:HG22	46:BO:94:ARG:HG3	1.11	1.08
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.17	1.08
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.31	1.08
24:AY:168:PRO:CB	24:AY:171:TRP:CZ2	2.36	1.08
37:BC:175:VAL:HG21	37:BC:189:ILE:HG12	1.23	1.08
24:AY:109:CYS:O	24:AY:137:ILE:HA	1.52	1.08
51:BT:124:ASP:HB3	51:BT:125:ARG:NH1	1.67	1.08
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.35	1.08
35:BA:833:U:H5''	47:BP:48:PRO:HG3	1.31	1.08
57:BZ:150:LEU:HG	57:BZ:171:ILE:HD11	1.10	1.08
15:AO:4:THR:HB	15:AO:7:GLU:CB	1.84	1.08
35:BA:2628:C:H1'	35:BA:2781:A:H2'	1.31	1.08
35:BA:2820:A:N6	39:BE:192:ASN:HB3	1.68	1.08
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.11	1.08
7:AG:29:LYS:HE2	7:AG:102:ARG:HA	1.33	1.07
57:BZ:56:VAL:HG22	57:BZ:70:LEU:HD13	1.36	1.07
34:B9:7:VAL:HG13	34:B9:34:GLN:HG2	1.36	1.07
35:BA:2596:U:H1'	38:BD:244:ARG:HH21	1.11	1.07
45:BN:133:GLN:HG2	45:BN:135:PRO:HD3	1.34	1.07
24:AY:181:GLY:HA2	24:AY:263:PHE:CZ	1.89	1.07
24:AY:193:TYR:HB3	24:AY:263:PHE:CD1	1.89	1.07
24:AY:32:LYS:HA	24:AY:35:LEU:HG	1.15	1.07
35:BA:1061:U:H4'	35:BA:1070:A:H1'	1.34	1.07
35:BA:1543:C:H3'	35:BA:1544:A:H5''	1.29	1.07
35:BA:1720:U:H2'	35:BA:1721:G:H5''	1.32	1.07
45:BN:91:LEU:HA	45:BN:95:PRO:HB3	1.30	1.07
1:AA:1442(A):G:H22	51:BT:121:ILE:HG12	1.15	1.07
54:BW:8:ARG:HA	54:BW:102:HIS:CB	1.84	1.07
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.10	1.07
24:AY:138:LEU:HD23	24:AY:253:PRO:CG	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2594:C:H2'	35:BA:2595:G:H8	1.12	1.07
47:BP:38:GLN:HG3	47:BP:39:LYS:H	1.19	1.07
52:BU:31:SER:HB3	52:BU:34:LYS:HB2	1.12	1.07
55:BX:57:LEU:HD21	55:BX:78:LYS:HE2	1.14	1.07
15:AO:39:LEU:CB	15:AO:56:LEU:HD21	1.83	1.07
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.34	1.07
37:BC:86:ALA:HB3	37:BC:94:VAL:HG11	1.30	1.07
1:AA:692:U:H2'	1:AA:694:A:OP2	1.52	1.07
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.13	1.07
39:BE:199:ARG:NH1	39:BE:199:ARG:HB2	1.70	1.07
47:BP:113:LYS:HB2	47:BP:129:ALA:HB3	1.37	1.07
12:AL:34:ARG:HD3	12:AL:105:TYR:OH	1.55	1.06
15:AO:54:ARG:HG3	15:AO:58:MET:HE1	1.09	1.06
24:AY:105:ALA:HA	24:AY:319:ARG:HH11	0.97	1.06
35:BA:1911:U:H2'	35:BA:1918:A:C2	1.90	1.06
35:BA:2305:A:H5''	41:BG:134:GLY:HA3	1.09	1.06
35:BA:547:A:H2'	35:BA:548:A:H8	1.14	1.06
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.37	1.06
35:BA:2833:G:H3'	35:BA:2834:G:C5'	1.85	1.06
38:BD:183:ARG:HD2	38:BD:270:ILE:HG23	1.34	1.06
24:AY:373:ILE:HG22	24:AY:374:GLN:H	1.19	1.06
39:BE:34:VAL:HG11	39:BE:78:LEU:CD2	1.86	1.06
15:AO:4:THR:CB	15:AO:7:GLU:HB3	1.84	1.06
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.33	1.06
24:AY:136:PRO:C	24:AY:137:ILE:HG13	1.76	1.06
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.17	1.06
41:BG:101:ILE:HG22	41:BG:105:LYS:NZ	1.69	1.06
1:AA:405:U:H3'	1:AA:406:G:H5'	1.35	1.06
35:BA:655:A:H4'	35:BA:656:G:H5'	1.31	1.06
35:BA:2839:G:H5''	49:BR:46:GLY:HA2	1.32	1.06
50:BS:29:PHE:HE1	50:BS:31:SER:HB2	1.17	1.06
24:AY:193:TYR:HB2	24:AY:263:PHE:HD1	1.12	1.05
24:AY:291:ALA:HA	24:AY:361:PRO:CG	1.85	1.05
56:BY:14:LEU:HB3	56:BY:73:ARG:HB2	1.31	1.05
24:AY:453:LEU:HB3	24:AY:459:VAL:HG23	1.35	1.05
1:AA:110:C:H2'	1:AA:111:G:H8	1.12	1.05
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.38	1.05
24:AY:193:TYR:HB2	24:AY:263:PHE:CD1	1.92	1.05
37:BC:42:GLU:HB3	37:BC:215:THR:HG23	1.35	1.05
52:BU:28:ARG:HH11	52:BU:38:THR:HG23	1.18	1.05
24:AY:183:TYR:CE2	24:AY:189:GLU:N	2.23	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:35:LEU:HD11	27:B2:50:ILE:HG13	1.38	1.05
38:BD:35:LYS:H	38:BD:36:PRO:HD2	1.22	1.05
45:BN:55:VAL:HG22	45:BN:125:GLY:HA3	1.38	1.05
22:AV:51:C:H2'	22:AV:52:G:C8	1.92	1.05
24:AY:74:VAL:HG23	24:AY:87:LEU:HD23	1.08	1.05
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.37	1.05
54:BW:25:ARG:HA	54:BW:71:VAL:HG11	1.38	1.05
1:AA:1488:G:H2'	1:AA:1489:G:C8	1.92	1.05
24:AY:110:LEU:HD13	24:AY:268:MET:CE	1.87	1.05
24:AY:342:ILE:HD11	24:AY:345:ALA:HB2	1.39	1.05
33:B8:27:THR:HG22	47:BP:62:LEU:HD22	1.10	1.05
24:AY:473:TRP:CZ3	24:AY:500:ASN:CB	2.40	1.04
35:BA:249:C:H2'	35:BA:2395:C:OP1	1.56	1.04
42:BH:125:VAL:HA	42:BH:131:VAL:HG12	1.34	1.04
19:AS:9:VAL:HG12	19:AS:11:VAL:HG12	1.34	1.04
24:AY:155:LEU:HD23	24:AY:166:CYS:HB3	1.34	1.04
35:BA:140:G:H1'	35:BA:141:A:H2	1.17	1.04
3:AC:19:GLU:HG2	3:AC:54:ARG:HE	1.16	1.04
6:AF:72:VAL:HG13	6:AF:73:ASN:H	1.18	1.04
12:AL:27:LEU:HD22	12:AL:28:LYS:H	1.12	1.04
35:BA:2689:U:H5''	35:BA:2690:C:H5'	1.38	1.04
37:BC:10:LEU:HB3	37:BC:220:PRO:CG	1.86	1.04
48:BQ:29:PHE:HE2	48:BQ:67:ARG:NH2	1.54	1.04
35:BA:2134:A:N6	35:BA:2157:G:H1'	1.70	1.04
37:BC:41:VAL:HG23	37:BC:176:GLY:O	1.55	1.04
35:BA:1007:C:H5''	45:BN:35:ARG:NH1	1.72	1.04
17:AQ:3:LYS:O	17:AQ:60:ILE:HG13	1.57	1.04
39:BE:13:ARG:HB3	39:BE:22:PRO:HA	1.39	1.04
46:BO:21:CYS:HA	46:BO:41:ALA:HB2	1.40	1.04
52:BU:92:ARG:HD3	52:BU:94:ASN:HB3	1.37	1.04
24:AY:111:MET:HE3	24:AY:139:THR:HG23	1.34	1.04
31:B6:33:LYS:HA	31:B6:33:LYS:HE2	1.36	1.04
39:BE:171:GLU:HB2	39:BE:185:LYS:HG2	1.40	1.04
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.18	1.04
35:BA:547:A:H2'	35:BA:548:A:C8	1.93	1.04
38:BD:17:THR:HG22	38:BD:18:VAL:N	1.70	1.04
38:BD:60:ARG:HD2	38:BD:86:PRO:HB3	1.37	1.04
3:AC:54:ARG:O	3:AC:55:VAL:HG23	1.57	1.03
1:AA:977:A:O2'	1:AA:978:A:H5''	1.57	1.03
17:AQ:75:ARG:NH1	17:AQ:77:VAL:HG22	1.72	1.03
42:BH:43:VAL:HG11	42:BH:52:VAL:HG23	1.36	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:60:ALA:HA	46:BO:87:ILE:HG12	1.36	1.03
35:BA:2287:A:N6	35:BA:2344:U:H3	1.54	1.03
38:BD:17:THR:HG22	38:BD:18:VAL:H	0.87	1.03
1:AA:800:G:HO2'	1:AA:801:U:H6	1.03	1.03
1:AA:979:C:H3'	1:AA:980:C:H5''	1.03	1.03
38:BD:60:ARG:HD2	38:BD:86:PRO:HB2	1.34	1.03
24:AY:182:VAL:HG12	24:AY:183:TYR:H	1.24	1.03
38:BD:131:LEU:HB2	38:BD:136:ILE:HG13	1.40	1.03
39:BE:117:MET:HA	39:BE:122:PHE:H	1.22	1.03
41:BG:109:VAL:HG11	41:BG:142:PRO:HD3	1.40	1.03
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.16	1.03
6:AF:98:LEU:HD12	6:AF:98:LEU:H	1.17	1.03
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.38	1.03
24:AY:512:ARG:O	24:AY:516:GLU:HG2	1.55	1.03
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.07	1.03
35:BA:271(L):U:H5''	35:BA:271(M):G:H5'	1.40	1.03
38:BD:13:ARG:HA	38:BD:16:MET:CG	1.87	1.03
38:BD:60:ARG:NH2	38:BD:87:ASN:HA	1.74	1.03
48:BQ:78:PRO:HD2	48:BQ:81:VAL:HG11	1.41	1.03
1:AA:1060:C:H5''	10:AJ:51:ARG:HD3	1.40	1.03
23:AX:14:A:C3'	23:AX:15:A:H5''	1.89	1.03
24:AY:255:PHE:HZ	24:AY:275:TRP:CZ3	1.72	1.03
30:B5:24:ALA:O	54:BW:19:LEU:HD11	1.59	1.03
1:AA:1266:G:N2	1:AA:1268:A:H5''	1.72	1.03
35:BA:2262:U:H4'	35:BA:2328:A:H2	1.22	1.03
42:BH:88:LEU:HD21	42:BH:130:ARG:HG2	1.39	1.03
24:AY:109:CYS:HB2	24:AY:137:ILE:HG23	1.03	1.02
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.34	1.02
35:BA:1912:A:C5'	35:BA:1918:A:H61	1.72	1.02
35:BA:2086:U:H2'	35:BA:2087:G:C8	1.94	1.02
35:BA:272(H):C:H2'	35:BA:272(I):U:H5''	1.41	1.02
35:BA:2833:G:H3'	35:BA:2834:G:H5''	1.06	1.02
35:BA:631:A:H5''	47:BP:65:ARG:NH1	1.74	1.02
57:BZ:33:LEU:HD12	57:BZ:34:ASN:H	0.89	1.02
36:BB:102:A:H3'	36:BB:103:G:C8	1.95	1.02
37:BC:100:ILE:HG21	37:BC:126:LYS:HB3	1.39	1.02
24:AY:146:ARG:HH11	24:AY:146:ARG:HG3	1.23	1.02
35:BA:1434:A:H2'	35:BA:1435:G:C8	1.94	1.02
24:AY:72:THR:HG22	24:AY:90:PRO:HD3	1.42	1.02
30:B5:25:LEU:HD13	54:BW:23:LEU:HD22	1.34	1.02
24:AY:360:TYR:HB3	24:AY:361:PRO:HD2	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:368:HIS:O	24:AY:373:ILE:HD11	1.58	1.02
35:BA:910:A:H62	48:BQ:12:GLN:HA	1.23	1.02
37:BC:10:LEU:CB	37:BC:220:PRO:HG3	1.89	1.02
51:BT:33:LYS:HG3	51:BT:43:GLN:HB2	1.40	1.02
24:AY:215:LEU:O	24:AY:219:VAL:HG22	1.60	1.02
28:B3:47:VAL:HA	28:B3:50:VAL:HG22	1.41	1.02
37:BC:180:PHE:HB3	37:BC:184:LYS:HB3	1.42	1.02
38:BD:177:LEU:HG	38:BD:181:GLU:O	1.60	1.02
5:AE:80:ILE:HA	8:AH:104:ARG:NH2	1.75	1.01
15:AO:39:LEU:HB3	15:AO:56:LEU:HD21	1.38	1.01
37:BC:100:ILE:HG23	37:BC:127:MET:HG3	1.37	1.01
40:BF:179:GLU:HG3	40:BF:201:VAL:HG21	1.40	1.01
50:BS:28:VAL:HG12	50:BS:29:PHE:H	1.26	1.01
5:AE:70:PRO:HG3	5:AE:142:LEU:HB3	1.39	1.01
39:BE:77:ILE:HG22	39:BE:78:LEU:H	1.23	1.01
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.75	1.01
19:AS:46:GLY:H	19:AS:62:ILE:HG23	1.21	1.01
24:AY:21:HIS:CD2	24:AY:122:ARG:H	1.78	1.01
24:AY:21:HIS:ND1	24:AY:22:PRO:HD2	1.74	1.01
31:B6:14:THR:HG22	31:B6:50:ARG:HB2	1.42	1.01
35:BA:1539:G:C2	35:BA:1540:U:H1'	1.95	1.01
35:BA:2820:A:H62	39:BE:192:ASN:HB3	1.23	1.01
42:BH:122:THR:HG22	42:BH:123:PHE:H	1.20	1.01
57:BZ:33:LEU:HD12	57:BZ:34:ASN:N	1.75	1.01
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.40	1.01
24:AY:105:ALA:HA	24:AY:319:ARG:NH1	1.75	1.01
35:BA:1892:C:H2'	35:BA:1893:C:H5'	1.42	1.01
24:AY:223:LEU:HG	42:BH:97:ARG:HH12	1.23	1.01
35:BA:662:G:OP1	47:BP:18:ARG:HD2	1.61	1.01
35:BA:1899:G:H21	35:BA:1902:C:H41	1.07	1.01
36:BB:105:A:H2'	36:BB:106:G:O4'	1.61	1.01
47:BP:7:ARG:HA	47:BP:7:ARG:HH11	1.23	1.01
35:BA:705:A:C2	35:BA:727:A:H1'	1.96	1.01
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.60	1.01
49:BR:14:SER:HA	49:BR:17:ARG:NH2	1.74	1.01
1:AA:108:G:H5'	1:AA:109:A:H5''	1.38	1.01
6:AF:87:ARG:HH11	6:AF:87:ARG:HG2	1.20	1.01
16:AP:73:LEU:HD23	16:AP:76:GLN:HE22	1.25	1.01
35:BA:613:G:H5'	35:BA:613:G:H8	1.25	1.01
38:BD:124:PRO:O	38:BD:129:ASN:ND2	1.94	1.01
40:BF:188:ARG:HA	47:BP:7:ARG:HD2	1.43	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:44:ALA:CA	48:BQ:47:ILE:HD12	1.90	1.01
50:BS:97:ARG:NH2	50:BS:98:VAL:HA	1.75	1.01
54:BW:14:PRO:HG3	54:BW:101:SER:HB3	1.41	1.01
24:AY:263:PHE:CD2	24:AY:263:PHE:C	2.30	1.01
40:BF:179:GLU:HB3	40:BF:205:ARG:HH22	1.23	1.01
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.59	1.00
35:BA:1447:G:H5'	35:BA:1545:A:H4'	1.40	1.00
46:BO:19:ILE:HG22	46:BO:43:VAL:HA	1.38	1.00
1:AA:711:G:H2'	1:AA:712:A:H8	1.22	1.00
5:AE:11:ILE:HD12	5:AE:31:LEU:HD13	1.42	1.00
51:BT:90:GLN:HG2	51:BT:120:ARG:NH2	1.76	1.00
1:AA:401:C:H2'	1:AA:402:G:H8	1.24	1.00
5:AE:12:LEU:HD22	5:AE:13:ILE:N	1.76	1.00
35:BA:1922:G:C2'	35:BA:1923:U:H5'	1.90	1.00
52:BU:15:LYS:HA	52:BU:18:LEU:HD23	1.43	1.00
1:AA:713:G:H2'	1:AA:714:G:C8	1.97	1.00
34:B9:36:GLN:NE2	35:BA:1031:G:H21	1.57	1.00
37:BC:10:LEU:HD12	37:BC:32:LEU:HA	1.44	1.00
38:BD:17:THR:CG2	38:BD:18:VAL:H	1.74	1.00
39:BE:47:VAL:HG23	39:BE:84:PHE:O	1.61	1.00
39:BE:3:GLY:HA3	39:BE:81:ILE:HD12	1.43	1.00
47:BP:47:ASP:HB3	47:BP:48:PRO:CA	1.92	1.00
51:BT:46:GLU:O	51:BT:65:LYS:HD2	1.60	1.00
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.60	1.00
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	1.96	1.00
47:BP:71:VAL:H	47:BP:72:PRO:CD	1.72	1.00
57:BZ:100:VAL:HG23	57:BZ:126:VAL:HG21	1.43	1.00
1:AA:1318:A:H1'	19:AS:37:ARG:NH2	1.77	1.00
18:AR:58:LEU:HD13	18:AR:66:LEU:HD22	1.42	1.00
35:BA:2746:U:H2'	35:BA:2747:G:H5'	1.39	1.00
2:AB:115:LEU:HD13	2:AB:145:LEU:HD12	1.43	1.00
1:AA:979:C:C3'	1:AA:980:C:H5''	1.92	1.00
2:AB:155:LEU:HD21	2:AB:159:PRO:HG3	1.43	1.00
12:AL:36:VAL:HG21	24:AY:406:PRO:CG	1.91	1.00
12:AL:45:PRO:HG2	12:AL:51:ALA:HB3	1.43	1.00
17:AQ:40:LYS:HD3	17:AQ:42:TYR:CZ	1.96	1.00
51:BT:24:PRO:HB3	51:BT:99:LEU:HD21	1.44	1.00
1:AA:110:C:H2'	1:AA:111:G:C8	1.96	1.00
52:BU:50:ARG:HH12	53:BV:72:VAL:HG12	1.23	1.00
52:BU:50:ARG:NH1	53:BV:72:VAL:HG12	1.76	1.00
4:AD:73:ARG:O	4:AD:77:ASN:HB2	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1499:C:H2'	35:BA:1500:G:C8	1.97	0.99
35:BA:2312:U:C2'	35:BA:2313:C:H5''	1.91	0.99
45:BN:5:VAL:HG12	45:BN:7:LYS:HG3	1.41	0.99
1:AA:1471:G:H2'	1:AA:1472:U:C6	1.97	0.99
13:AM:13:LYS:HA	13:AM:44:ARG:HH11	1.27	0.99
24:AY:135:THR:CG2	24:AY:136:PRO:CD	2.36	0.99
35:BA:786:C:H2'	35:BA:787:U:H6	1.24	0.99
24:AY:473:TRP:HH2	24:AY:500:ASN:HB2	0.93	0.99
35:BA:1121:C:H2'	35:BA:1122:G:H8	1.25	0.99
35:BA:1170:G:H22	35:BA:1179:C:H42	1.03	0.99
42:BH:106:THR:HG21	42:BH:112:PRO:HA	1.37	0.99
51:BT:60:THR:HG22	51:BT:77:PRO:HA	1.44	0.99
27:B2:25:VAL:HG12	27:B2:29:LYS:HE2	1.42	0.99
35:BA:1665:A:H2'	35:BA:1666:G:H5''	1.44	0.99
24:AY:296:PHE:CD1	24:AY:331:LEU:HD11	1.97	0.99
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.03	0.99
24:AY:291:ALA:CA	24:AY:361:PRO:HG3	1.91	0.99
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	1.77	0.99
35:BA:1844:C:C2'	35:BA:1845:G:H5'	1.92	0.99
1:AA:979:C:H3'	1:AA:980:C:C5'	1.93	0.99
35:BA:2113:U:H2'	35:BA:2114:A:H8	1.25	0.99
35:BA:2199:A:H5'	35:BA:2200:C:OP2	1.63	0.99
42:BH:67:LEU:HG	42:BH:71:LEU:HD12	1.42	0.99
35:BA:2593:U:H2'	35:BA:2594:C:C5	1.97	0.99
57:BZ:33:LEU:CD1	57:BZ:34:ASN:H	1.74	0.99
1:AA:351:G:H4'	1:AA:352:C:OP1	1.63	0.99
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.41	0.99
38:BD:8:PRO:HB3	38:BD:14:ARG:HB2	1.40	0.99
12:AL:27:LEU:HD22	12:AL:28:LYS:N	1.78	0.99
35:BA:833:U:H5''	47:BP:48:PRO:CG	1.93	0.99
51:BT:28:VAL:HG22	51:BT:47:GLY:H	1.27	0.99
2:AB:115:LEU:O	2:AB:118:LEU:HB2	1.63	0.98
40:BF:84:VAL:O	40:BF:86:GLY:N	1.95	0.98
48:BQ:114:ALA:O	48:BQ:118:LEU:HD12	1.61	0.98
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.28	0.98
17:AQ:75:ARG:HH12	17:AQ:77:VAL:HG22	1.26	0.98
24:AY:470:THR:HG21	24:AY:472:ARG:HH21	1.25	0.98
38:BD:148:GLU:HB2	38:BD:151:LYS:HD3	1.45	0.98
50:BS:15:ARG:O	50:BS:18:ILE:HD13	1.61	0.98
24:AY:76:GLN:HE21	24:AY:85:ASN:ND2	1.61	0.98
35:BA:1467:C:H2'	35:BA:1468:C:H6	1.22	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.27	0.98
40:BF:103:LYS:HE3	40:BF:106:ARG:HH21	1.26	0.98
42:BH:76:VAL:O	42:BH:79:VAL:HG22	1.63	0.98
52:BU:112:ARG:HH12	53:BV:46:VAL:HG11	1.23	0.98
57:BZ:5:LEU:HD13	57:BZ:39:VAL:HG11	1.45	0.98
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.43	0.98
38:BD:16:MET:HB3	38:BD:207:GLY:HA3	1.43	0.98
15:AO:3:ILE:CG1	15:AO:8:LYS:HE2	1.92	0.98
24:AY:110:LEU:HD13	24:AY:268:MET:HE1	1.40	0.98
24:AY:105:ALA:CA	24:AY:319:ARG:HH11	1.76	0.98
35:BA:500:G:N2	35:BA:502:A:H3'	1.79	0.98
40:BF:111:ALA:HB2	40:BF:206:ILE:HG21	1.43	0.98
41:BG:34:LEU:HA	41:BG:161:THR:HG22	1.40	0.98
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.46	0.98
35:BA:433:C:H2'	35:BA:434:U:H6	1.25	0.98
5:AE:33:VAL:HG22	5:AE:43:LEU:HD13	1.46	0.98
38:BD:158:ALA:O	38:BD:196:VAL:HG11	1.62	0.98
39:BE:114:ALA:HB3	39:BE:160:TYR:HB3	1.43	0.98
22:AV:48:C:H4'	22:AV:49:G:H5''	1.43	0.98
38:BD:176:ARG:HG2	38:BD:176:ARG:NH1	1.71	0.98
50:BS:46:VAL:HG12	50:BS:47:THR:H	1.29	0.98
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	1.78	0.98
24:AY:324:LYS:HD3	24:AY:358:GLU:HB2	1.41	0.98
35:BA:2402:C:H2'	35:BA:2403:C:H5'	1.46	0.98
51:BT:23:ARG:NH2	51:BT:120:ARG:HD3	1.79	0.98
35:BA:565:C:H4'	35:BA:1253:A:N1	1.79	0.97
37:BC:49:ILE:HG22	37:BC:204:ALA:CB	1.93	0.97
39:BE:7:VAL:HG23	39:BE:194:GLY:H	1.29	0.97
40:BF:110:LEU:HA	40:BF:183:VAL:HG11	1.46	0.97
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.00	0.97
35:BA:797:C:H2'	35:BA:798:G:C8	1.97	0.97
24:AY:342:ILE:HD11	24:AY:345:ALA:CB	1.93	0.97
35:BA:2125:G:H21	35:BA:2173:A:N6	1.62	0.97
35:BA:2444:G:OP1	40:BF:68:LYS:HE3	1.64	0.97
38:BD:124:PRO:HB2	38:BD:129:ASN:HD21	1.27	0.97
1:AA:60:A:OP2	1:AA:387:U:H4'	1.64	0.97
13:AM:75:ALA:HB1	13:AM:79:LYS:HE3	1.43	0.97
24:AY:150:ASP:O	24:AY:154:LEU:HG	1.62	0.97
35:BA:1310:G:H2'	35:BA:1311:G:H5'	1.45	0.97
35:BA:2177:C:O2'	37:BC:168:THR:HG21	1.63	0.97
42:BH:123:PHE:HA	42:BH:133:VAL:HG22	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:20:GLN:HG2	5:AE:21:ALA:N	1.79	0.97
6:AF:47:ARG:HB3	6:AF:47:ARG:NH1	1.79	0.97
22:AV:61:C:C3'	22:AV:62:C:H5''	1.94	0.97
24:AY:32:LYS:NZ	24:AY:260:LEU:HA	1.78	0.97
37:BC:6:ARG:NH2	37:BC:7:TYR:HA	1.80	0.97
40:BF:157:VAL:HG23	40:BF:194:MET:HA	1.46	0.97
36:BB:57:A:H8	41:BG:27:ASN:HD21	1.07	0.97
45:BN:23:LEU:HB3	45:BN:60:ILE:HG21	1.47	0.97
46:BO:92:GLU:HG3	46:BO:93:PRO:HD2	1.46	0.97
35:BA:631:A:OP1	47:BP:64:LYS:HE3	1.61	0.97
1:AA:753:A:H5''	15:AO:69:TYR:OH	1.64	0.97
24:AY:111:MET:HE2	24:AY:139:THR:HG23	1.43	0.97
35:BA:1924:C:OP2	35:BA:1924:C:H2'	1.63	0.97
36:BB:35:U:H2'	36:BB:36:C:H6	1.30	0.97
38:BD:263:ARG:HH11	38:BD:263:ARG:HG2	1.30	0.97
50:BS:12:PHE:HD1	50:BS:12:PHE:H	1.03	0.97
2:AB:87:ARG:HH11	2:AB:223:ILE:HD11	1.29	0.97
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.27	0.97
24:AY:225:GLN:HA	24:AY:228:ARG:HB2	1.46	0.97
35:BA:1899:G:N2	35:BA:1902:C:H41	1.61	0.97
13:AM:88:ARG:HG3	13:AM:98:VAL:HG11	1.44	0.97
35:BA:1199:U:H2'	35:BA:1200:C:H6	1.27	0.97
35:BA:2746:U:C2'	35:BA:2747:G:H5'	1.92	0.97
57:BZ:51:ALA:HA	57:BZ:55:HIS:HD2	1.26	0.97
24:AY:369:ASN:HD22	24:AY:373:ILE:CG1	1.78	0.97
35:BA:1528(A):A:H62	35:BA:1541:G:N2	1.63	0.97
35:BA:754:C:H2'	35:BA:755:C:C6	2.00	0.97
51:BT:58:ASN:ND2	51:BT:58:ASN:H	1.57	0.97
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.30	0.97
1:AA:754:C:H4'	15:AO:72:ARG:HH12	1.30	0.97
35:BA:2183:C:H2'	35:BA:2184:G:C8	1.99	0.97
35:BA:2833:G:C3'	35:BA:2834:G:H5''	1.94	0.97
38:BD:26:LYS:HZ3	38:BD:113:VAL:HG21	1.24	0.97
48:BQ:10:ARG:HH11	48:BQ:10:ARG:HB2	1.27	0.97
52:BU:31:SER:CB	52:BU:34:LYS:HB2	1.95	0.97
53:BV:47:VAL:HG12	53:BV:52:VAL:HB	1.46	0.97
1:AA:951:G:H2'	1:AA:952:U:H6	1.18	0.96
2:AB:51:LEU:HD23	2:AB:55:PHE:HE2	1.30	0.96
22:AV:1:C:H6	22:AV:1:C:HO5'	1.09	0.96
38:BD:13:ARG:CA	38:BD:16:MET:HG2	1.94	0.96
47:BP:131:SER:OG	47:BP:134:ALA:HB3	1.64	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	1.95	0.96
48:BQ:141:GLN:NE2	57:BZ:72:ARG:HD3	1.79	0.96
1:AA:1030:C:H2'	1:AA:1030(A):G:O4'	1.63	0.96
24:AY:164:ILE:HD11	24:AY:252:THR:HG23	1.46	0.96
47:BP:21:ARG:HD3	47:BP:29:LYS:HE2	1.47	0.96
1:AA:295:C:H2'	1:AA:296:U:H6	1.29	0.96
24:AY:10:VAL:HG12	24:AY:279:PRO:HG2	1.44	0.96
39:BE:54:GLN:O	39:BE:75:VAL:HG23	1.65	0.96
33:B8:13:ARG:HD2	47:BP:61:ARG:HH11	1.27	0.96
48:BQ:67:ARG:HH11	48:BQ:67:ARG:HB3	1.29	0.96
54:BW:8:ARG:CA	54:BW:102:HIS:HB3	1.94	0.96
1:AA:295:C:H2'	1:AA:296:U:C6	2.01	0.96
2:AB:69:LEU:O	2:AB:162:ILE:HG13	1.65	0.96
35:BA:1915:U:O2'	35:BA:1916:A:H5'	1.64	0.96
35:BA:2298:A:H2'	35:BA:2299:G:O4'	1.62	0.96
35:BA:2696:U:H2'	35:BA:2697:G:C8	1.99	0.96
38:BD:201:HIS:CE1	38:BD:204:ILE:HG21	1.99	0.96
42:BH:41:MET:SD	42:BH:53:GLU:O	2.24	0.96
45:BN:27:ALA:HA	45:BN:30:ILE:HD12	1.44	0.96
47:BP:23:PRO:HD2	47:BP:33:ARG:HH21	1.30	0.96
1:AA:1491:G:H2'	1:AA:1492:A:C8	1.98	0.96
12:AL:36:VAL:HG11	12:AL:82:VAL:HG22	1.45	0.96
1:AA:740:U:OP2	15:AO:2:PRO:HB3	1.66	0.96
24:AY:473:TRP:HZ2	24:AY:496:ASP:OD2	1.46	0.96
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.44	0.96
50:BS:13:ARG:CG	50:BS:14:VAL:H	1.75	0.96
1:AA:1061:G:O2'	1:AA:1062:U:H5'	1.65	0.96
35:BA:2086:U:H2'	35:BA:2087:G:H8	1.25	0.96
35:BA:884:C:H3'	35:BA:885:C:H5''	1.47	0.96
35:BA:888:C:N4	35:BA:890:A:OP1	1.99	0.96
41:BG:101:ILE:HG22	41:BG:105:LYS:HZ1	1.26	0.96
1:AA:1437:C:H2'	1:AA:1438:G:C8	2.01	0.96
20:AT:87:LYS:O	20:AT:91:LEU:HG	1.66	0.96
35:BA:1190:G:H5'	47:BP:35:HIS:H	1.29	0.96
1:AA:1032:G:H2'	1:AA:1033:G:C8	2.00	0.96
35:BA:1845:G:H2'	35:BA:1846:G:H8	1.30	0.96
35:BA:272(J):C:H2'	35:BA:274:G:H5''	1.45	0.96
49:BR:45:ARG:O	49:BR:49:ASP:HB2	1.66	0.96
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	1.79	0.96
35:BA:2305:A:H5''	41:BG:134:GLY:CA	1.96	0.96
48:BQ:44:ALA:HA	48:BQ:47:ILE:CD1	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.27	0.95
24:AY:331:LEU:HB3	24:AY:379:PHE:HE2	1.15	0.95
36:BB:102:A:H3'	36:BB:103:G:H8	1.25	0.95
41:BG:52:ILE:HD13	41:BG:52:ILE:H	1.30	0.95
55:BX:40:LYS:HG3	55:BX:51:VAL:HB	1.46	0.95
1:AA:1047:G:H5''	14:AN:4:LYS:HE2	1.44	0.95
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.00	0.95
10:AJ:64:GLU:CD	14:AN:59:ALA:HA	1.86	0.95
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.66	0.95
24:AY:346:LEU:HB2	24:AY:366:GLY:HA3	1.44	0.95
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.31	0.95
35:BA:2305:A:C2	35:BA:2306:C:H1'	2.02	0.95
54:BW:8:ARG:HA	54:BW:102:HIS:HB3	0.98	0.95
56:BY:46:LYS:N	56:BY:62:GLU:HG2	1.80	0.95
20:AT:78:ALA:HA	20:AT:81:LYS:HD3	1.43	0.95
35:BA:2183:C:H2'	35:BA:2184:G:H8	1.31	0.95
37:BC:10:LEU:HB3	37:BC:220:PRO:HG3	0.96	0.95
38:BD:248:SER:OG	38:BD:252:TRP:CE2	2.17	0.95
47:BP:100:LEU:HB2	47:BP:106:LEU:HD22	1.48	0.95
1:AA:1191:A:H5''	3:AC:4:LYS:HZ1	1.29	0.95
24:AY:155:LEU:O	24:AY:158:VAL:HG23	1.66	0.95
45:BN:31:ALA:O	45:BN:35:ARG:HG2	1.65	0.95
50:BS:23:ARG:HB3	50:BS:24:LEU:HD22	1.49	0.95
1:AA:390:C:H4'	16:AP:28:ARG:HH21	1.28	0.95
35:BA:1930:G:N2	35:BA:1968:G:H2'	1.81	0.95
35:BA:2070:G:H2'	35:BA:2071:A:C8	2.02	0.95
39:BE:52:LEU:HD23	39:BE:75:VAL:HB	1.44	0.95
40:BF:108:LYS:O	40:BF:112:MET:HB2	1.64	0.95
15:AO:29:VAL:HG21	15:AO:67:LEU:HD21	1.48	0.95
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.01	0.95
25:B0:51:VAL:HG21	25:B0:79:VAL:O	1.66	0.95
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.67	0.95
11:AK:38:ASN:HD22	11:AK:38:ASN:N	1.63	0.95
35:BA:1222:C:H2'	35:BA:1223:G:H5''	1.47	0.95
35:BA:2121:G:H2'	35:BA:2122:U:C6	2.02	0.95
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.02	0.95
35:BA:925:C:H2'	35:BA:926:A:H5''	1.46	0.95
36:BB:20:C:H2'	36:BB:21:G:H5''	1.46	0.95
38:BD:147:LEU:HD23	38:BD:183:ARG:NH2	1.81	0.95
41:BG:42:GLY:HA2	41:BG:90:LEU:H	1.29	0.95
24:AY:12:LYS:HG3	24:AY:82:CYS:HA	1.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.67	0.95
35:BA:782:A:H2	38:BD:226:MET:HG2	1.31	0.95
38:BD:33:LEU:HG	38:BD:34:VAL:HG13	1.49	0.95
39:BE:154:LYS:O	39:BE:156:MET:HG3	1.67	0.95
24:AY:335:ARG:HH21	24:AY:335:ARG:HG2	1.32	0.94
24:AY:101:ARG:CZ	24:AY:390:ILE:HG23	1.97	0.94
27:B2:2:LYS:O	27:B2:6:VAL:HG23	1.67	0.94
35:BA:1676:A:H2'	35:BA:1677:A:C8	2.02	0.94
40:BF:126:VAL:O	40:BF:196:LEU:HG	1.64	0.94
4:AD:58:LEU:HD12	4:AD:59:ARG:HH12	1.29	0.94
35:BA:1038:C:H2'	35:BA:1039:G:H5''	1.47	0.94
40:BF:126:VAL:HG11	40:BF:142:TRP:CH2	2.01	0.94
24:AY:21:HIS:CG	24:AY:22:PRO:HD2	2.02	0.94
27:B2:43:GLN:HG2	27:B2:44:LEU:H	1.27	0.94
35:BA:142:A:H8	35:BA:1595:G:H21	1.05	0.94
35:BA:2199:A:H5''	35:BA:2200:C:H5	1.30	0.94
35:BA:2744:G:H22	42:BH:143:GLN:HE22	0.98	0.94
35:BA:628:G:C2'	35:BA:629:G:H5''	1.95	0.94
35:BA:1971:A:C8	38:BD:241:PRO:HB3	2.02	0.94
50:BS:36:TYR:HD1	50:BS:36:TYR:N	1.65	0.94
57:BZ:141:VAL:HA	57:BZ:144:LEU:HD23	1.45	0.94
19:AS:6:LYS:HD2	19:AS:6:LYS:N	1.81	0.94
24:AY:30:THR:HG23	24:AY:86:LEU:HD21	1.47	0.94
35:BA:1155:A:O2'	35:BA:1156:A:H2'	1.67	0.94
54:BW:14:PRO:HG2	54:BW:78:GLU:CG	1.96	0.94
1:AA:112:G:H5'	1:AA:389:A:H4'	1.48	0.94
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	1.81	0.94
35:BA:1747:G:H2'	35:BA:1747(A):G:H8	1.32	0.94
37:BC:47:LEU:HD23	37:BC:208:PHE:CZ	2.01	0.94
40:BF:6:VAL:CG1	40:BF:7:TYR:H	1.80	0.94
1:AA:1124:G:H2'	1:AA:1145:C:H41	1.30	0.94
20:AT:16:HIS:O	20:AT:19:SER:HB3	1.67	0.94
24:AY:13:ARG:HD3	24:AY:363:ASP:OD1	1.67	0.94
35:BA:2594:C:H2'	35:BA:2595:G:C8	2.01	0.94
37:BC:214:VAL:HG23	37:BC:224:ILE:HD13	1.46	0.94
38:BD:126:GLN:O	38:BD:193:VAL:HG11	1.67	0.94
2:AB:102:LEU:HD22	2:AB:176:GLU:HB3	1.48	0.94
2:AB:223:ILE:O	2:AB:226:ARG:HB2	1.68	0.94
24:AY:111:MET:HE1	24:AY:139:THR:HG23	0.98	0.94
24:AY:183:TYR:HE2	24:AY:189:GLU:H	1.12	0.94
24:AY:94:ASP:CG	24:AY:442:GLY:HA3	1.88	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:14:ILE:HG13	29:B4:31:ILE:HB	1.46	0.94
35:BA:528:A:H2	35:BA:2043:C:H4'	1.31	0.94
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.32	0.94
35:BA:2329:G:H1	35:BA:2386:C:H42	1.02	0.94
1:AA:1145:C:HO2'	1:AA:1146:A:H8	0.94	0.94
5:AE:41:VAL:O	5:AE:66:MET:HA	1.67	0.94
9:AI:10:ARG:HG3	9:AI:75:ASP:HB3	1.50	0.94
24:AY:201:ILE:HG23	24:AY:262:ASN:HB3	1.49	0.94
35:BA:2100:G:H3'	35:BA:2101:G:C8	2.03	0.94
35:BA:786:C:H2'	35:BA:787:U:C6	2.02	0.94
40:BF:181:LEU:HD11	40:BF:186:ILE:HD11	1.47	0.94
41:BG:63:ILE:HD12	41:BG:141:PHE:HE2	1.31	0.94
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	1.98	0.94
35:BA:532:A:HO2'	35:BA:2021:C:H5	1.10	0.94
47:BP:39:LYS:O	47:BP:41:ARG:HG2	1.68	0.94
52:BU:21:ALA:HB2	52:BU:39:LEU:HD21	1.50	0.94
1:AA:799:G:H2'	1:AA:800:G:C8	2.01	0.94
15:AO:49:ASP:OD2	15:AO:52:SER:HB3	1.68	0.94
16:AP:67:THR:N	16:AP:70:ALA:HB3	1.83	0.94
22:AV:52:G:H1	22:AV:62:C:H42	1.06	0.94
24:AY:26:LYS:O	24:AY:30:THR:HB	1.68	0.94
35:BA:1993:U:H4'	39:BE:128:SER:OG	1.68	0.94
35:BA:2375:G:H1'	35:BA:2379:G:H22	1.32	0.94
36:BB:22:U:H3	36:BB:61:G:H1	0.94	0.94
38:BD:18:VAL:HG23	38:BD:211:ARG:NH2	1.83	0.94
42:BH:38:SER:CB	42:BH:64:LEU:HD11	1.98	0.94
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	1.83	0.93
33:B8:3:LYS:HD3	35:BA:242:G:O5'	1.68	0.93
35:BA:597:U:O2'	47:BP:15:ARG:HD3	1.68	0.93
39:BE:171:GLU:O	39:BE:184:VAL:HA	1.68	0.93
42:BH:85:LYS:NZ	42:BH:87:LEU:HD12	1.82	0.93
35:BA:143:G:C1'	55:BX:37:THR:HG21	1.98	0.93
1:AA:554:C:OP1	12:AL:22:SER:OG	1.86	0.93
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.67	0.93
24:AY:297:THR:HB	24:AY:322:SER:OG	1.66	0.93
57:BZ:151:HIS:HB3	57:BZ:171:ILE:H	1.33	0.93
1:AA:1266:G:H22	1:AA:1268:A:H5''	1.29	0.93
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	1.48	0.93
30:B5:57:VAL:HG12	30:B5:58:LEU:HD12	1.50	0.93
35:BA:1414:G:H1	35:BA:1588:C:H42	1.15	0.93
35:BA:2092:U:H4'	35:BA:2093:G:H5''	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:23:ARG:HG3	46:BO:24:VAL:H	1.31	0.93
14:AN:53:LEU:HB3	14:AN:56:VAL:HG21	1.50	0.93
33:B8:7:HIS:CE1	33:B8:9:GLY:HA3	2.03	0.93
35:BA:2001:A:H2'	35:BA:2002:G:C8	2.02	0.93
39:BE:35:GLN:HG2	39:BE:36:ARG:H	1.30	0.93
51:BT:108:ARG:HB3	51:BT:111:ARG:NH2	1.82	0.93
57:BZ:100:VAL:HG23	57:BZ:126:VAL:CG2	1.98	0.93
35:BA:999:U:O2'	35:BA:1000:A:H5'	1.67	0.93
50:BS:29:PHE:CE1	50:BS:31:SER:HB2	2.03	0.93
33:B8:25:MET:HG2	47:BP:64:LYS:HB2	1.50	0.93
35:BA:1695:G:H2'	35:BA:1696:G:H5'	1.50	0.93
1:AA:507:C:OP2	1:AA:508:C:H2'	1.68	0.93
10:AJ:43:ARG:HB2	10:AJ:67:THR:HG23	1.51	0.93
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.50	0.93
24:AY:16:PHE:HA	24:AY:106:VAL:CG2	1.99	0.93
24:AY:101:ARG:CD	24:AY:390:ILE:HG12	1.99	0.93
35:BA:1434:A:H61	35:BA:1558:A:H62	1.12	0.93
38:BD:176:ARG:CG	38:BD:176:ARG:HH11	1.80	0.93
51:BT:3:ARG:HB3	51:BT:6:LEU:HB2	1.51	0.93
6:AF:11:ASN:HB3	6:AF:14:LEU:HD23	1.49	0.93
24:AY:395:PRO:HA	24:AY:441:VAL:HG22	1.50	0.93
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.04	0.93
35:BA:2523:G:C2'	35:BA:2524:G:H5''	1.98	0.93
38:BD:213:ARG:NH1	38:BD:219:PRO:HD3	1.82	0.93
42:BH:151:ILE:H	42:BH:151:ILE:HD12	1.32	0.93
57:BZ:122:ARG:HH11	57:BZ:122:ARG:HG2	1.33	0.93
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	1.69	0.93
35:BA:989:G:H5'	35:BA:1157:G:H4'	1.49	0.93
40:BF:6:VAL:HG12	40:BF:7:TYR:N	1.82	0.93
4:AD:99:SER:CB	4:AD:139:ARG:HG3	1.99	0.93
4:AD:53:ASP:O	4:AD:56:VAL:HG23	1.67	0.93
24:AY:263:PHE:HD2	24:AY:263:PHE:O	1.49	0.93
42:BH:132:ARG:CG	42:BH:133:VAL:H	1.82	0.93
50:BS:89:ARG:HB3	50:BS:92:TYR:HB3	1.50	0.93
1:AA:1323:G:H4'	1:AA:1363:C:O2	1.69	0.92
26:B1:23:LYS:CD	26:B1:28:GLY:HA3	1.98	0.92
35:BA:828:U:H2'	35:BA:829:A:C8	2.04	0.92
38:BD:36:PRO:O	38:BD:37:LEU:HB2	1.68	0.92
40:BF:179:GLU:HB3	40:BF:205:ARG:NH2	1.84	0.92
3:AC:6:HIS:CD2	3:AC:8:ILE:HB	2.04	0.92
18:AR:74:ARG:HA	18:AR:79:LEU:O	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:291:ALA:HA	24:AY:361:PRO:HG3	0.95	0.92
35:BA:1892:C:H2'	35:BA:1893:C:C5'	1.99	0.92
35:BA:264:C:H4'	35:BA:428:A:N1	1.84	0.92
35:BA:612:C:H2'	35:BA:613:G:H5''	1.47	0.92
38:BD:164:GLN:O	38:BD:175:LEU:HD22	1.69	0.92
38:BD:9:TYR:HD1	38:BD:10:THR:N	1.67	0.92
42:BH:106:THR:CG2	42:BH:112:PRO:HA	1.98	0.92
35:BA:1141:U:OP2	45:BN:63:THR:HG23	1.69	0.92
48:BQ:133:ARG:HH11	48:BQ:133:ARG:HB3	1.31	0.92
22:AV:31:G:H1	22:AV:39:C:H42	0.95	0.92
24:AY:307:MET:HG2	24:AY:312:ARG:CA	1.98	0.92
25:B0:43:THR:HG22	35:BA:2331:G:O3'	1.69	0.92
53:BV:21:ARG:HB3	53:BV:91:TYR:HB2	1.52	0.92
2:AB:47:THR:O	2:AB:51:LEU:HD12	1.67	0.92
32:B7:46:VAL:HG12	32:B7:47:ARG:H	1.34	0.92
37:BC:62:VAL:HG21	37:BC:192:PHE:HA	1.51	0.92
51:BT:29:ARG:HE	51:BT:86:ILE:HG23	1.33	0.92
1:AA:105:G:H2'	1:AA:106:C:C6	2.05	0.92
7:AG:29:LYS:HB3	7:AG:105:VAL:HG21	1.48	0.92
24:AY:108:CYS:HA	24:AY:135:THR:HG22	1.51	0.92
24:AY:349:MET:HE3	24:AY:358:GLU:HG2	1.51	0.92
32:B7:6:GLN:O	35:BA:686:G:H1'	1.70	0.92
35:BA:803:U:O2'	35:BA:804:A:H5'	1.68	0.92
38:BD:247:ALA:HB1	38:BD:252:TRP:O	1.69	0.92
42:BH:132:ARG:CG	42:BH:133:VAL:N	2.33	0.92
51:BT:55:ASN:H	51:BT:59:THR:HG22	1.34	0.92
24:AY:527:ARG:NH1	24:AY:529:HIS:HA	1.84	0.92
25:B0:51:VAL:HG22	25:B0:81:VAL:HG22	1.51	0.92
31:B6:38:LYS:HA	31:B6:48:VAL:HA	1.47	0.92
37:BC:47:LEU:HD11	37:BC:171:ILE:HB	1.52	0.92
48:BQ:141:GLN:HE22	57:BZ:72:ARG:HA	1.34	0.92
3:AC:36:ASP:HB3	3:AC:40:ARG:HH12	1.33	0.92
12:AL:126:LYS:CB	24:AY:487:ARG:HH21	1.83	0.92
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.05	0.92
35:BA:1097:U:O2'	44:BK:6:UNK:HA	1.69	0.92
1:AA:1220:G:H21	19:AS:54:GLY:HA3	1.35	0.92
24:AY:227:LEU:O	24:AY:231:LEU:N	2.02	0.92
24:AY:462:VAL:HG12	24:AY:463:TYR:N	1.85	0.92
57:BZ:120:ILE:HG12	57:BZ:172:ALA:HA	1.48	0.92
8:AH:120:THR:OG1	8:AH:123:GLU:HG3	1.70	0.92
34:B9:36:GLN:HE22	35:BA:1031:G:H21	1.08	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1273:U:O2'	35:BA:1274:A:H5''	1.69	0.92
35:BA:1499:C:H2'	35:BA:1500:G:H8	1.29	0.92
35:BA:1543:C:H3'	35:BA:1544:A:C5'	1.99	0.92
35:BA:1590:U:H2'	35:BA:1591:G:H5''	1.52	0.92
32:B7:40:TRP:CH2	35:BA:459:U:H4'	2.05	0.92
38:BD:9:TYR:HD1	38:BD:10:THR:H	0.98	0.92
55:BX:80:ILE:HG13	55:BX:80:ILE:O	1.69	0.92
9:AI:85:LEU:HD12	9:AI:86:VAL:N	1.85	0.92
35:BA:118:A:H5'	35:BA:119:A:H8	1.35	0.92
35:BA:972:G:H2'	35:BA:973:A:C8	2.04	0.92
35:BA:1655:A:H4'	39:BE:115:GLY:H	1.32	0.92
51:BT:52:ILE:HA	51:BT:61:PHE:HA	1.50	0.92
1:AA:711:G:H2'	1:AA:712:A:C8	2.03	0.91
24:AY:431:ILE:H	24:AY:431:ILE:HD13	1.34	0.91
35:BA:1925:C:O2'	35:BA:1926:U:H5''	1.70	0.91
35:BA:2786:U:H2'	35:BA:2787:C:C6	2.05	0.91
35:BA:579:G:H5''	35:BA:2018:G:H5''	1.49	0.91
51:BT:50:ILE:HG23	51:BT:99:LEU:O	1.69	0.91
56:BY:15:VAL:HG12	56:BY:20:TYR:O	1.70	0.91
1:AA:1309:G:OP1	13:AM:88:ARG:HD2	1.70	0.91
24:AY:219:VAL:HG23	24:AY:224:ALA:HB2	1.50	0.91
24:AY:462:VAL:HG12	24:AY:463:TYR:H	1.35	0.91
35:BA:1467:C:H2'	35:BA:1468:C:C6	2.04	0.91
35:BA:2839:G:C5'	49:BR:46:GLY:HA2	1.99	0.91
35:BA:471:A:H2'	35:BA:472:A:H5''	1.52	0.91
38:BD:128:GLY:N	38:BD:193:VAL:HG13	1.85	0.91
53:BV:39:LEU:HB3	53:BV:47:VAL:HG21	1.49	0.91
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.34	0.91
3:AC:152:ILE:HG12	3:AC:167:TRP:HB2	1.50	0.91
24:AY:302:LYS:O	24:AY:316:ALA:HA	1.68	0.91
35:BA:880:G:H1	35:BA:897:C:H42	1.10	0.91
38:BD:32:SER:O	38:BD:36:PRO:HD3	1.71	0.91
55:BX:8:ILE:H	55:BX:8:ILE:HD12	1.36	0.91
24:AY:168:PRO:HB3	24:AY:171:TRP:CZ2	2.05	0.91
35:BA:2023:G:H1	35:BA:2040:C:H42	1.18	0.91
35:BA:432:A:H2'	35:BA:433:C:C6	2.06	0.91
38:BD:68:LYS:HB3	38:BD:70:TRP:CH2	2.06	0.91
39:BE:24:THR:HG21	39:BE:188:VAL:HG11	1.53	0.91
54:BW:4:LYS:HA	54:BW:106:ILE:HG22	1.51	0.91
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.32	0.91
11:AK:59:TYR:CE1	11:AK:63:LEU:HD21	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:68:ARG:O	15:AO:72:ARG:N	2.02	0.91
12:AL:36:VAL:CG2	24:AY:406:PRO:HG2	2.01	0.91
24:AY:419:LEU:HD13	24:AY:449:VAL:HG12	1.52	0.91
49:BR:56:LYS:HE2	49:BR:88:ARG:HA	1.50	0.91
51:BT:121:ILE:O	51:BT:124:ASP:HB2	1.70	0.91
45:BN:40:PRO:O	52:BU:64:ARG:NH1	2.03	0.91
42:BH:68:THR:HA	42:BH:71:LEU:HB3	1.49	0.91
45:BN:9:VAL:HG11	45:BN:39:ARG:NH2	1.85	0.91
55:BX:63:LYS:HG3	55:BX:72:LYS:HG2	1.52	0.91
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.34	0.91
6:AF:25:ILE:CA	6:AF:28:ARG:HH11	1.83	0.91
35:BA:1845:G:H2'	35:BA:1846:G:C8	2.05	0.91
35:BA:94(A):G:C2'	35:BA:95:G:H5''	2.00	0.91
38:BD:210:GLY:O	38:BD:211:ARG:HB2	1.67	0.91
45:BN:2:LYS:NZ	52:BU:95:LEU:HD21	1.85	0.91
57:BZ:100:VAL:CG2	57:BZ:126:VAL:HG21	2.01	0.91
20:AT:18:GLN:HE21	20:AT:22:ARG:HH12	0.93	0.91
24:AY:140:PHE:CZ	24:AY:257:GLY:O	2.23	0.91
24:AY:33:VAL:HG12	24:AY:34:LEU:HD23	1.51	0.91
37:BC:86:ALA:HB3	37:BC:94:VAL:CG1	2.01	0.91
41:BG:161:THR:HG21	41:BG:172:LEU:HD13	1.53	0.91
42:BH:26:VAL:HG21	42:BH:76:VAL:HG22	1.51	0.91
51:BT:85:LYS:NZ	51:BT:85:LYS:HB3	1.85	0.91
1:AA:363:A:OP1	12:AL:33:ARG:HD2	1.70	0.91
2:AB:185:ILE:HG23	2:AB:199:TYR:HB2	1.53	0.91
24:AY:138:LEU:HD12	24:AY:268:MET:HE3	1.53	0.91
35:BA:1021:A:H62	35:BA:1141:U:H3	1.11	0.91
35:BA:1509(B):A:H2'	35:BA:1510:G:O4'	1.70	0.91
35:BA:1639:U:H4'	35:BA:2699:C:H4'	1.50	0.91
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.01	0.91
1:AA:404:U:H2'	1:AA:405:U:H6	1.34	0.91
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.53	0.91
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.53	0.91
9:AI:9:ARG:HB3	9:AI:104:ARG:NH1	1.86	0.91
24:AY:445:GLN:O	24:AY:448:VAL:HB	1.69	0.91
28:B3:7:LYS:O	28:B3:54:VAL:HG13	1.70	0.91
35:BA:1448:G:H2'	35:BA:1449:A:C8	2.06	0.91
35:BA:1572:A:O2'	35:BA:1573:G:H5'	1.70	0.91
35:BA:1824:G:OP1	38:BD:52:ARG:HD2	1.71	0.91
46:BO:23:ARG:HG3	46:BO:24:VAL:N	1.84	0.91
48:BQ:12:GLN:HG2	48:BQ:73:PRO:HD2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:53:ALA:O	48:BQ:56:ARG:HB2	1.70	0.91
49:BR:55:ALA:HA	49:BR:80:PHE:CE1	2.06	0.91
12:AL:91:LYS:O	12:AL:92:ASP:HB2	1.70	0.90
15:AO:54:ARG:CG	15:AO:58:MET:HE1	2.01	0.90
24:AY:210:LEU:O	24:AY:215:LEU:HD22	1.71	0.90
24:AY:138:LEU:HB2	24:AY:268:MET:HE1	1.53	0.90
50:BS:87:PHE:HD1	50:BS:88:ASP:H	1.14	0.90
57:BZ:125:LEU:HD23	57:BZ:164:ALA:O	1.70	0.90
48:BQ:63:LYS:HG3	57:BZ:175:VAL:HG21	1.52	0.90
1:AA:923:A:OP1	5:AE:21:ALA:HB2	1.70	0.90
4:AD:102:ASP:HB3	4:AD:121:VAL:HG21	1.52	0.90
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.53	0.90
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.53	0.90
35:BA:2393:A:H2'	35:BA:2394:C:H6	1.34	0.90
35:BA:2703:C:O2'	35:BA:2704:C:H5'	1.70	0.90
35:BA:2786:U:H2'	35:BA:2787:C:H6	1.34	0.90
41:BG:52:ILE:HG12	41:BG:53:LEU:H	1.32	0.90
41:BG:52:ILE:HB	41:BG:54:GLU:OE1	1.71	0.90
42:BH:71:LEU:HD22	42:BH:72:ILE:CD1	2.01	0.90
47:BP:88:LEU:HD21	47:BP:125:VAL:HG21	1.53	0.90
3:AC:67:THR:HG23	3:AC:102:ASN:HB2	1.52	0.90
8:AH:8:ASP:O	8:AH:12:ARG:HG3	1.71	0.90
27:B2:10:LEU:O	27:B2:14:ARG:HG3	1.70	0.90
35:BA:1840:G:H1	35:BA:1902:C:H42	1.13	0.90
40:BF:5:ALA:HB2	40:BF:24:LEU:HD11	1.51	0.90
35:BA:2758:A:N6	42:BH:67:LEU:HD11	1.86	0.90
43:BJ:27:UNK:CB	43:BJ:113:UNK:HA	2.02	0.90
1:AA:1423:G:H5''	46:BO:49:ARG:HH22	1.36	0.90
50:BS:35:ILE:HD11	50:BS:99:LYS:HE3	1.52	0.90
10:AJ:7:LYS:C	10:AJ:8:LEU:HD12	1.90	0.90
14:AN:13:THR:H	14:AN:14:PRO:CD	1.82	0.90
35:BA:1614:A:H61	54:BW:87:PRO:HA	1.35	0.90
37:BC:53:ARG:HH12	37:BC:55:ASP:HB2	1.37	0.90
38:BD:147:LEU:N	38:BD:154:LYS:HD2	1.87	0.90
51:BT:58:ASN:N	51:BT:58:ASN:HD22	1.60	0.90
1:AA:1035:A:H2'	1:AA:1036:G:H8	1.35	0.90
1:AA:1386:G:C2'	1:AA:1387:G:H5''	2.00	0.90
2:AB:68:ILE:H	2:AB:90:MET:CE	1.84	0.90
10:AJ:16:LEU:HD11	10:AJ:70:ARG:HG3	1.54	0.90
18:AR:22:VAL:HG23	18:AR:55:ARG:O	1.72	0.90
24:AY:513:LEU:HD22	24:AY:517:ARG:CZ	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:29:VAL:CG1	37:BC:222:VAL:HG21	2.02	0.90
24:AY:74:VAL:CG2	24:AY:87:LEU:CD2	2.49	0.90
38:BD:91:ARG:O	38:BD:107:ALA:HB2	1.71	0.90
33:B8:13:ARG:HD2	47:BP:61:ARG:NH1	1.85	0.90
1:AA:197:A:N6	1:AA:221:C:H4'	1.85	0.90
1:AA:950:U:OP2	13:AM:102:ARG:NH1	2.05	0.90
33:B8:8:LYS:HZ3	33:B8:11:LYS:NZ	1.68	0.90
38:BD:165:ILE:HG13	38:BD:175:LEU:HD21	1.54	0.90
1:AA:279:A:H5''	1:AA:281:G:O4'	1.71	0.90
35:BA:2187:G:H2'	35:BA:2188:C:H5'	1.54	0.90
37:BC:22:ILE:HD12	37:BC:190:ARG:HG2	1.51	0.90
42:BH:106:THR:HG21	42:BH:112:PRO:CB	2.01	0.90
1:AA:1359:C:OP2	14:AN:22:THR:HG21	1.71	0.90
3:AC:112:SER:O	3:AC:116:VAL:HG23	1.72	0.90
4:AD:108:LEU:HD23	4:AD:110:PHE:CE2	2.06	0.90
7:AG:121:ALA:O	7:AG:125:MET:HG3	1.70	0.90
7:AG:57:GLU:O	7:AG:60:LYS:HB3	1.72	0.90
25:B0:37:LEU:HD21	25:B0:60:PHE:HA	1.54	0.90
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.72	0.90
35:BA:469:G:OP1	40:BF:78:ILE:HD11	1.71	0.90
38:BD:87:ASN:HB2	38:BD:88:ARG:CZ	2.01	0.90
40:BF:126:VAL:HG23	40:BF:127:GLU:N	1.87	0.90
41:BG:109:VAL:O	41:BG:112:PRO:HD2	1.72	0.90
51:BT:62:THR:HG22	51:BT:75:ILE:HG23	1.52	0.90
1:AA:754:C:H4'	15:AO:72:ARG:NH1	1.86	0.90
24:AY:113:ILE:CG2	24:AY:114:ASP:H	1.85	0.90
24:AY:369:ASN:ND2	24:AY:373:ILE:HG12	1.87	0.90
35:BA:1720:U:C2'	35:BA:1721:G:H5''	2.01	0.90
35:BA:2605:U:H2'	35:BA:2606:C:C5	2.06	0.90
40:BF:57:VAL:HG12	40:BF:59:TYR:H	1.33	0.90
56:BY:86:ARG:NH1	56:BY:95:LYS:HZ2	1.70	0.90
1:AA:299:G:H2'	1:AA:300:A:C8	2.06	0.89
1:AA:977:A:H2'	1:AA:977:A:N3	1.84	0.89
30:B5:13:LYS:O	30:B5:16:ARG:HB3	1.72	0.89
30:B5:13:LYS:HA	30:B5:16:ARG:HB3	1.54	0.89
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.51	0.89
35:BA:1252:G:O4'	52:BU:33:ARG:HD3	1.73	0.89
35:BA:2035:G:H3'	35:BA:2036:C:H5'	1.54	0.89
35:BA:484:C:OP1	56:BY:49:VAL:HG13	1.71	0.89
37:BC:24:GLU:HA	37:BC:27:HIS:HB2	1.54	0.89
41:BG:63:ILE:HD12	41:BG:141:PHE:CE2	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2744:G:N2	42:BH:143:GLN:NE2	2.19	0.89
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.52	0.89
1:AA:180:U:H2'	1:AA:181:G:H5'	1.54	0.89
13:AM:45:VAL:HA	13:AM:48:LEU:HD11	1.53	0.89
22:AV:36:U:O2'	22:AV:37:A:H5'	1.71	0.89
22:AV:51:C:H2'	22:AV:52:G:H8	1.30	0.89
24:AY:197:LYS:CB	24:AY:202:GLN:HG3	2.02	0.89
34:B9:6:SER:HB2	35:BA:2466:C:H5''	1.53	0.89
35:BA:2839:G:OP1	49:BR:46:GLY:HA3	1.73	0.89
35:BA:900:A:H5'	35:BA:901:A:OP2	1.72	0.89
38:BD:53:PHE:HB3	38:BD:218:ARG:O	1.72	0.89
51:BT:68:TYR:O	51:BT:70:VAL:N	2.05	0.89
54:BW:69:LEU:HD23	54:BW:108:GLY:O	1.71	0.89
1:AA:621:A:H2'	1:AA:622:A:H8	1.34	0.89
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	1.86	0.89
24:AY:331:LEU:HD23	24:AY:379:PHE:CD2	2.05	0.89
24:AY:174:GLY:O	24:AY:179:PHE:CD1	2.25	0.89
35:BA:1919:A:C2'	35:BA:1920:C:H5''	2.02	0.89
24:AY:10:VAL:HG12	24:AY:279:PRO:CG	2.02	0.89
35:BA:199:A:N6	35:BA:2433:A:H2'	1.87	0.89
10:AJ:4:ILE:CG2	10:AJ:74:ILE:HD11	2.02	0.89
24:AY:109:CYS:CA	24:AY:137:ILE:HG23	2.03	0.89
25:B0:42:GLY:HA3	35:BA:2331:G:O4'	1.72	0.89
38:BD:182:LEU:C	38:BD:272:ALA:HB2	1.91	0.89
41:BG:39:ILE:HD12	41:BG:157:ILE:HG12	1.55	0.89
47:BP:30:THR:HG22	47:BP:31:ALA:H	1.37	0.89
1:AA:1228:C:H2'	1:AA:1229:A:H5'	1.54	0.89
2:AB:121:LEU:O	2:AB:121:LEU:HD23	1.71	0.89
4:AD:125:HIS:HD1	4:AD:152:SER:HG	1.10	0.89
1:AA:720:C:H1'	18:AR:50:ILE:HG21	1.54	0.89
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.35	0.89
47:BP:97:PRO:O	47:BP:98:GLU:HB3	1.73	0.89
35:BA:2838:G:O2'	49:BR:45:ARG:HD3	1.71	0.89
1:AA:882:C:H41	12:AL:5:PRO:HB3	1.38	0.89
5:AE:33:VAL:CG2	5:AE:43:LEU:HD13	2.03	0.89
13:AM:76:ALA:O	13:AM:80:ARG:HB2	1.72	0.89
24:AY:443:VAL:HG23	24:AY:444:LEU:N	1.88	0.89
24:AY:425:VAL:CG1	24:AY:445:GLN:HG3	2.03	0.89
35:BA:433:C:H2'	35:BA:434:U:C6	2.06	0.89
35:BA:575:A:H2'	35:BA:576:U:H6	1.38	0.89
39:BE:35:GLN:HG2	39:BE:36:ARG:N	1.85	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:83:VAL:HG23	47:BP:105:LEU:HD22	1.53	0.89
3:AC:32:LEU:O	3:AC:35:GLU:HB2	1.73	0.89
4:AD:89:THR:HA	4:AD:92:VAL:HB	1.52	0.89
24:AY:14:ARG:HD3	24:AY:276:ALA:HB3	1.54	0.89
24:AY:221:GLU:HA	24:AY:225:GLN:HE22	1.36	0.89
24:AY:359:ALA:HA	24:AY:363:ASP:OD2	1.72	0.89
35:BA:996:A:H61	35:BA:1159:U:H3	1.18	0.89
37:BC:2:LYS:HD3	37:BC:2:LYS:O	1.70	0.89
53:BV:72:VAL:HG23	53:BV:85:LYS:HB3	1.52	0.89
56:BY:13:VAL:HB	56:BY:28:LYS:HZ3	1.36	0.89
57:BZ:4:ARG:HG2	57:BZ:58:VAL:HB	1.54	0.89
11:AK:126:ARG:NH1	11:AK:126:ARG:HB3	1.87	0.89
24:AY:80:HIS:HD2	24:AY:273:VAL:HG21	1.37	0.89
35:BA:2570:G:H2'	35:BA:2571:C:H6	1.38	0.89
41:BG:33:ARG:H	41:BG:162:THR:HB	1.35	0.89
46:BO:61:VAL:HG12	46:BO:87:ILE:CD1	2.02	0.89
47:BP:124:LYS:HD3	47:BP:143:GLY:HA3	1.54	0.89
48:BQ:133:ARG:HG2	48:BQ:134:ARG:H	1.35	0.89
52:BU:102:GLU:HB2	52:BU:105:VAL:HG23	1.53	0.89
57:BZ:20:ARG:HB2	57:BZ:20:ARG:NH1	1.88	0.89
11:AK:124:LYS:HZ3	11:AK:125:PHE:HE1	0.95	0.88
24:AY:247:LEU:HD22	24:AY:277:PRO:HG3	1.55	0.88
35:BA:140:G:H1'	35:BA:141:A:C2	2.07	0.88
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.05	0.88
48:BQ:35:VAL:HG13	48:BQ:130:LYS:HB3	1.52	0.88
50:BS:13:ARG:HG3	50:BS:14:VAL:N	1.87	0.88
35:BA:1750:G:O2'	35:BA:1751:C:H5'	1.73	0.88
35:BA:581:C:H2'	35:BA:582:G:H8	1.36	0.88
35:BA:2684:U:H1'	46:BO:70:LYS:HD2	1.54	0.88
1:AA:974:A:C8	14:AN:31:ARG:HD3	2.07	0.88
22:AV:2:G:O2'	22:AV:3:C:H5"	1.71	0.88
24:AY:113:ILE:HG22	24:AY:114:ASP:N	1.88	0.88
28:B3:31:LEU:HD23	28:B3:32:GLN:N	1.88	0.88
35:BA:581:C:H2'	35:BA:582:G:C8	2.09	0.88
36:BB:35:U:H2'	36:BB:36:C:C6	2.08	0.88
38:BD:9:TYR:OH	38:BD:13:ARG:NH1	2.05	0.88
40:BF:26:ALA:O	40:BF:27:GLU:HG3	1.72	0.88
49:BR:28:LEU:HD23	49:BR:29:LEU:HD13	1.54	0.88
57:BZ:102:LEU:HD21	57:BZ:124:ILE:HD11	1.53	0.88
4:AD:8:VAL:HG23	4:AD:22:LYS:HE2	1.54	0.88
35:BA:1061:U:C4'	35:BA:1070:A:H1'	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:8:GLN:HG3	40:BF:9:ILE:N	1.87	0.88
4:AD:125:HIS:ND1	4:AD:152:SER:OG	2.05	0.88
26:B1:5:CYS:HB2	26:B1:46:LEU:HD21	1.56	0.88
30:B5:4:HIS:CB	30:B5:5:PRO:HD3	2.02	0.88
36:BB:40:U:H3'	36:BB:41:U:H5''	1.55	0.88
39:BE:117:MET:HA	39:BE:122:PHE:N	1.87	0.88
47:BP:16:ARG:HD3	47:BP:18:ARG:H	1.36	0.88
51:BT:16:ARG:HB3	51:BT:16:ARG:HH11	1.38	0.88
52:BU:36:ARG:HH11	52:BU:36:ARG:HB3	1.37	0.88
1:AA:1204:A:H2'	1:AA:1205:U:C6	2.09	0.88
1:AA:186:C:H5'	20:AT:78:ALA:HB1	1.55	0.88
24:AY:138:LEU:HD11	24:AY:272:LEU:HB3	1.54	0.88
24:AY:255:PHE:CE1	24:AY:275:TRP:HZ3	1.90	0.88
24:AY:420:SER:HB2	24:AY:427:VAL:HG22	1.55	0.88
35:BA:1020:A:H5'	35:BA:1021:A:C2	2.09	0.88
35:BA:1919:A:H3'	35:BA:1920:C:H5'	1.55	0.88
35:BA:576:U:H2'	35:BA:577:G:C8	2.08	0.88
38:BD:182:LEU:N	38:BD:272:ALA:CB	2.36	0.88
40:BF:154:VAL:HG22	40:BF:191:ARG:HB3	1.54	0.88
48:BQ:110:THR:HG23	48:BQ:113:GLN:OE1	1.72	0.88
49:BR:96:ARG:HD3	49:BR:98:LEU:HD11	1.51	0.88
1:AA:834:C:H2'	1:AA:835:U:C6	2.08	0.88
9:AI:9:ARG:HB3	9:AI:104:ARG:HH12	1.37	0.88
9:AI:26:VAL:HG13	9:AI:61:ALA:HB3	1.55	0.88
12:AL:36:VAL:HG11	24:AY:406:PRO:CB	2.03	0.88
24:AY:359:ALA:HB1	24:AY:363:ASP:HB2	1.56	0.88
25:B0:37:LEU:HG	25:B0:59:LEU:O	1.73	0.88
28:B3:47:VAL:HA	28:B3:50:VAL:CG2	2.04	0.88
41:BG:76:SER:OG	41:BG:84:LYS:HG3	1.74	0.88
48:BQ:46:GLN:O	48:BQ:49:ALA:HB3	1.74	0.88
2:AB:44:LEU:O	2:AB:47:THR:HB	1.74	0.88
2:AB:98:LEU:O	2:AB:101:MET:HG2	1.73	0.88
4:AD:12:CYS:HA	4:AD:19:LEU:HB2	1.55	0.88
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.54	0.88
6:AF:74:ASP:HB3	6:AF:77:ARG:HH21	1.39	0.88
19:AS:31:ILE:HG22	19:AS:48:THR:O	1.74	0.88
24:AY:419:LEU:CD2	24:AY:424:ALA:HB3	2.04	0.88
35:BA:2431:U:H6	35:BA:2433:A:OP2	1.57	0.88
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	1.74	0.88
49:BR:47:PHE:C	49:BR:51:LEU:HD13	1.94	0.88
15:AO:85:LEU:HD23	15:AO:85:LEU:N	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:18:GLN:HE21	20:AT:22:ARG:NH1	1.71	0.88
20:AT:81:LYS:O	20:AT:85:MET:HG3	1.74	0.88
21:AU:5:ASP:OD1	21:AU:7:ARG:HB2	1.74	0.88
24:AY:32:LYS:HZ2	24:AY:260:LEU:HA	1.34	0.88
24:AY:403:LEU:HD13	24:AY:461:ALA:HB2	1.53	0.88
24:AY:473:TRP:CZ2	24:AY:496:ASP:OD2	2.27	0.88
35:BA:814:C:O2'	35:BA:815:C:H5'	1.74	0.88
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.04	0.88
51:BT:26:ASP:HA	51:BT:48:ILE:HG23	1.55	0.88
52:BU:102:GLU:HB2	52:BU:105:VAL:CG2	2.04	0.88
57:BZ:162:GLU:O	57:BZ:163:LEU:HD23	1.74	0.88
57:BZ:8:TYR:HD2	57:BZ:38:TYR:HH	0.95	0.88
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.09	0.88
14:AN:12:ARG:NH1	14:AN:14:PRO:HG2	1.88	0.88
24:AY:171:TRP:HE1	24:AY:234:VAL:HG11	1.37	0.88
35:BA:445:C:H2'	35:BA:446:G:C8	2.08	0.88
38:BD:183:ARG:CD	38:BD:270:ILE:HG23	2.03	0.88
42:BH:66:GLY:HA2	42:BH:69:ARG:HD2	1.55	0.88
35:BA:954:G:H4'	48:BQ:13:GLN:OE1	1.72	0.88
1:AA:250:A:H4'	1:AA:251:G:O5'	1.70	0.87
5:AE:12:LEU:C	5:AE:13:ILE:HD12	1.93	0.87
22:AV:31:G:H1	22:AV:39:C:N4	1.73	0.87
24:AY:138:LEU:CD2	24:AY:253:PRO:CG	2.49	0.87
24:AY:62:MET:HG2	24:AY:451:ALA:HB3	1.55	0.87
35:BA:1005:C:H2'	35:BA:1006:C:H6	1.38	0.87
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.03	0.87
35:BA:1892:C:C2'	35:BA:1893:C:C5'	2.52	0.87
39:BE:167:VAL:HG11	39:BE:188:VAL:HA	1.54	0.87
53:BV:52:VAL:HG13	53:BV:55:ALA:HB3	1.55	0.87
57:BZ:166:SER:HB2	57:BZ:168:GLU:N	1.88	0.87
1:AA:981:U:C5	1:AA:982:U:H2'	2.09	0.87
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.39	0.87
19:AS:78:ARG:O	19:AS:81:ARG:HD3	1.73	0.87
22:AV:52:G:H2'	22:AV:53:G:H8	1.39	0.87
28:B3:8:LEU:CD2	28:B3:31:LEU:HA	2.05	0.87
35:BA:540:C:H2'	35:BA:541:C:H6	1.39	0.87
37:BC:156:ILE:HA	37:BC:160:ARG:HB2	1.56	0.87
37:BC:56:GLN:HA	37:BC:201:PRO:HB3	1.55	0.87
38:BD:273:ARG:HH11	38:BD:273:ARG:HG3	1.40	0.87
9:AI:48:GLU:HA	9:AI:51:ARG:HD2	1.55	0.87
26:B1:80:LEU:HD23	26:B1:81:LYS:H	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:893:C:C2'	35:BA:894:C:H5'	2.04	0.87
39:BE:7:VAL:HG23	39:BE:194:GLY:N	1.89	0.87
47:BP:23:PRO:HD2	47:BP:33:ARG:NH2	1.89	0.87
49:BR:2:ARG:O	49:BR:2:ARG:HD2	1.72	0.87
3:AC:157:ILE:CG2	3:AC:164:ARG:HH21	1.87	0.87
24:AY:182:VAL:HG12	24:AY:183:TYR:N	1.84	0.87
35:BA:370:G:H4'	35:BA:371:A:OP2	1.73	0.87
38:BD:24:ILE:HA	38:BD:82:ILE:HB	1.56	0.87
39:BE:50:GLY:HA2	39:BE:78:LEU:CB	2.03	0.87
35:BA:636:G:H2'	47:BP:115:LEU:HD12	1.54	0.87
5:AE:129:ILE:N	5:AE:129:ILE:HD12	1.89	0.87
10:AJ:65:LEU:HD13	14:AN:55:GLY:HA3	1.52	0.87
24:AY:308:ASP:H	24:AY:309:PRO:HD2	1.36	0.87
24:AY:457:TYR:HB2	24:AY:459:VAL:HG22	1.57	0.87
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.09	0.87
35:BA:81:G:H21	56:BY:2:ARG:HH12	1.18	0.87
57:BZ:59:LEU:O	57:BZ:66:SER:HA	1.74	0.87
1:AA:115:G:H1'	1:AA:116:A:N7	1.89	0.87
5:AE:77:PRO:CG	5:AE:142:LEU:HD22	2.05	0.87
17:AQ:94:ASN:O	17:AQ:98:LEU:HG	1.75	0.87
20:AT:20:LEU:O	20:AT:23:ARG:HB3	1.73	0.87
24:AY:151:PRO:HA	24:AY:154:LEU:HD12	1.53	0.87
24:AY:182:VAL:CG1	24:AY:183:TYR:H	1.87	0.87
36:BB:101:G:H2'	36:BB:102:A:O4'	1.74	0.87
39:BE:34:VAL:CG1	39:BE:78:LEU:HD22	2.04	0.87
46:BO:88:ASN:HD21	46:BO:92:GLU:HB3	1.39	0.87
47:BP:59:LEU:HA	47:BP:61:ARG:NE	1.89	0.87
48:BQ:141:GLN:HE22	57:BZ:72:ARG:CA	1.87	0.87
51:BT:26:ASP:HB3	51:BT:89:VAL:O	1.75	0.87
24:AY:32:LYS:CA	24:AY:35:LEU:HG	2.03	0.87
33:B8:8:LYS:HD3	33:B8:11:LYS:HD2	1.56	0.87
35:BA:1367:A:H2'	35:BA:1368:G:H5'	1.57	0.87
35:BA:621:A:H2'	35:BA:622:G:H5'	1.54	0.87
39:BE:13:ARG:CB	39:BE:22:PRO:HA	2.04	0.87
40:BF:32:LEU:HD22	40:BF:33:LEU:HD22	1.57	0.87
42:BH:162:ILE:O	42:BH:162:ILE:HD13	1.75	0.87
42:BH:85:LYS:HZ2	42:BH:87:LEU:HD12	1.35	0.87
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.09	0.87
2:AB:42:ILE:HD12	2:AB:203:GLY:N	1.90	0.87
22:AV:61:C:H3'	22:AV:62:C:C5'	2.02	0.87
24:AY:216:ASP:HA	24:AY:224:ALA:CB	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:396:GLU:N	24:AY:440:ALA:O	2.07	0.87
27:B2:53:LEU:O	27:B2:57:ILE:HG12	1.75	0.87
35:BA:2077:A:O2'	35:BA:2078:C:H5'	1.74	0.87
35:BA:2530:A:H2'	35:BA:2531:A:H5''	1.54	0.87
35:BA:857:C:H42	35:BA:920:G:H1	1.18	0.87
37:BC:47:LEU:HD11	37:BC:171:ILE:HD12	1.55	0.87
38:BD:144:ALA:HB3	38:BD:192:THR:HG21	1.56	0.87
38:BD:35:LYS:H	38:BD:36:PRO:CD	1.86	0.87
41:BG:110:ALA:CB	41:BG:140:ILE:HD13	2.05	0.87
49:BR:94:TYR:N	49:BR:94:TYR:HD1	1.72	0.87
55:BX:12:VAL:HG23	55:BX:13:LEU:N	1.88	0.87
57:BZ:20:ARG:HB2	57:BZ:20:ARG:HH11	1.39	0.87
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.10	0.87
13:AM:91:ARG:HD2	13:AM:97:PRO:O	1.75	0.87
24:AY:138:LEU:HD12	24:AY:268:MET:CE	2.05	0.87
35:BA:2596:U:H1'	38:BD:244:ARG:NH2	1.89	0.87
1:AA:681:C:H5''	38:BD:174:ILE:HD12	1.57	0.87
42:BH:105:LEU:H	42:BH:105:LEU:HD22	1.40	0.87
53:BV:58:VAL:HG12	53:BV:59:ALA:H	1.40	0.87
19:AS:63:THR:HG22	19:AS:66:MET:SD	2.15	0.86
24:AY:6:TYR:O	24:AY:10:VAL:HG23	1.75	0.86
28:B3:26:LEU:HB2	28:B3:28:LEU:HD21	1.57	0.86
35:BA:1948:G:O2'	35:BA:1949:G:H5'	1.72	0.86
35:BA:672:C:C2'	35:BA:673:C:H5''	2.05	0.86
38:BD:92:ILE:CG2	38:BD:106:ILE:HA	2.04	0.86
42:BH:98:LEU:HD13	42:BH:102:ALA:O	1.75	0.86
54:BW:1:MET:HE3	54:BW:2:GLU:N	1.90	0.86
57:BZ:117:LEU:HD12	57:BZ:118:GLN:N	1.90	0.86
1:AA:1452:C:H5'	1:AA:1456:G:N1	1.90	0.86
1:AA:790:A:H61	1:AA:1498:U:P	1.97	0.86
8:AH:14:ARG:HG2	8:AH:18:ARG:HH21	1.40	0.86
35:BA:1423:G:H2'	35:BA:1424:G:H8	1.38	0.86
35:BA:1720:U:H2'	35:BA:1721:G:C5'	2.05	0.86
35:BA:1820:U:C6	38:BD:202:LYS:HD3	2.09	0.86
35:BA:2760:C:O2	42:BH:143:GLN:NE2	2.08	0.86
2:AB:196:LEU:HD12	2:AB:197:VAL:HG23	1.57	0.86
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	1.57	0.86
35:BA:1925:C:H2'	35:BA:1926:U:C5'	2.04	0.86
35:BA:2107:C:H2'	35:BA:2108:C:H6	1.40	0.86
35:BA:2262:U:H4'	35:BA:2328:A:C2	2.09	0.86
35:BA:2388:A:H5'	35:BA:2389:G:OP2	1.72	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:884:C:C3'	35:BA:885:C:H5''	2.04	0.86
37:BC:161:ILE:HG12	37:BC:174:PRO:HG2	1.58	0.86
38:BD:212:SER:HA	38:BD:215:LEU:HD12	1.57	0.86
40:BF:42:ALA:HA	40:BF:45:ARG:HG3	1.57	0.86
42:BH:33:LEU:HD21	42:BH:136:ILE:HG22	1.56	0.86
49:BR:56:LYS:HE2	49:BR:88:ARG:CA	2.06	0.86
51:BT:89:VAL:HG21	51:BT:91:ARG:HH21	1.39	0.86
1:AA:918:A:H2'	1:AA:919:A:C8	2.10	0.86
2:AB:80:ILE:H	2:AB:80:ILE:HD12	1.38	0.86
12:AL:69:TYR:O	12:AL:71:PRO:HD3	1.76	0.86
16:AP:73:LEU:HA	16:AP:76:GLN:HE21	1.40	0.86
31:B6:52:VAL:HG22	31:B6:53:LYS:N	1.89	0.86
35:BA:121:G:H4'	35:BA:149:A:H5'	1.56	0.86
25:B0:43:THR:N	35:BA:2331:G:H4'	1.89	0.86
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.05	0.86
38:BD:125:ILE:HD12	38:BD:137:PRO:HD3	1.58	0.86
38:BD:186:HIS:HE2	38:BD:188:GLU:CD	1.78	0.86
38:BD:24:ILE:HD11	38:BD:91:ARG:CB	2.05	0.86
38:BD:247:ALA:CB	38:BD:253:GLN:HA	2.06	0.86
4:AD:13:ARG:HA	4:AD:33:MET:CE	2.05	0.86
24:AY:21:HIS:HD2	24:AY:122:ARG:H	1.18	0.86
24:AY:527:ARG:HD2	24:AY:528:GLU:H	1.40	0.86
31:B6:35:GLU:OE1	31:B6:35:GLU:HA	1.75	0.86
33:B8:27:THR:HG22	47:BP:62:LEU:CD2	2.02	0.86
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.02	0.86
35:BA:2415:G:H4'	47:BP:66:GLY:C	1.94	0.86
41:BG:97:ASP:O	41:BG:101:ILE:HG13	1.75	0.86
51:BT:54:ARG:HA	51:BT:59:THR:HB	1.58	0.86
1:AA:356:A:H5''	1:AA:367:U:C5	2.10	0.86
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.37	0.86
35:BA:1892:C:C2'	35:BA:1893:C:H5''	2.05	0.86
35:BA:373:U:H2'	35:BA:374:A:H8	1.38	0.86
38:BD:33:LEU:HD21	38:BD:102:LYS:HB2	1.57	0.86
51:BT:107:ASP:H	51:BT:110:ILE:CG1	1.87	0.86
15:AO:63:ARG:O	15:AO:67:LEU:HG	1.74	0.86
18:AR:56:THR:HB	18:AR:58:LEU:HD12	1.58	0.86
22:AV:52:G:H2'	22:AV:53:G:C8	2.10	0.86
28:B3:37:LEU:HD22	28:B3:38:GLU:H	1.40	0.86
31:B6:52:VAL:CG2	31:B6:53:LYS:H	1.88	0.86
35:BA:1678:G:O5'	35:BA:1678:G:H8	1.58	0.86
38:BD:201:HIS:ND1	38:BD:204:ILE:CG2	2.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:9:VAL:HG12	39:BE:25:VAL:O	1.76	0.86
11:AK:27:ASN:HA	11:AK:56:GLY:HA2	1.57	0.86
15:AO:39:LEU:HD13	15:AO:56:LEU:CD2	2.06	0.86
1:AA:192:U:H5'	20:AT:102:GLY:O	1.75	0.86
22:AV:7:G:H1	22:AV:66:C:H42	1.23	0.86
24:AY:99:THR:HA	24:AY:102:THR:OG1	1.74	0.86
24:AY:138:LEU:HD22	24:AY:275:TRP:CZ3	2.10	0.86
24:AY:420:SER:HA	24:AY:425:VAL:O	1.76	0.86
27:B2:10:LEU:HD21	27:B2:59:ARG:HD3	1.56	0.86
32:B7:24:THR:O	32:B7:28:ARG:HG3	1.76	0.86
35:BA:1272:A:H3'	35:BA:1273:U:H5''	1.57	0.86
35:BA:2712:U:O2'	35:BA:2712(A):A:H3'	1.75	0.86
45:BN:52:VAL:HG12	45:BN:53:VAL:H	1.41	0.86
3:AC:21:ARG:O	3:AC:58:GLU:HA	1.76	0.86
7:AG:139:GLU:O	7:AG:143:ARG:HG3	1.76	0.86
19:AS:23:ASN:HB2	29:B4:47:GLN:HG2	1.56	0.86
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.55	0.86
35:BA:1910:G:H1	35:BA:1920:C:H42	1.18	0.86
1:AA:226:G:O2'	1:AA:227:G:H5'	1.75	0.86
5:AE:11:ILE:HD13	5:AE:105:VAL:HG13	1.58	0.86
1:AA:585:G:H4'	12:AL:8:ASN:HD22	1.39	0.86
15:AO:4:THR:HG22	15:AO:6:GLU:HB2	1.58	0.86
25:B0:14:ARG:HD3	35:BA:2280:G:O6	1.76	0.86
33:B8:56:GLU:CD	33:B8:56:GLU:H	1.79	0.86
35:BA:1270:C:C5'	35:BA:1271:G:H5'	2.06	0.86
50:BS:36:TYR:N	50:BS:36:TYR:CD1	2.39	0.86
51:BT:56:GLY:O	51:BT:59:THR:HG23	1.75	0.86
1:AA:1032:G:H2'	1:AA:1033:G:H8	1.41	0.85
1:AA:1330:U:H5'	1:AA:1331:G:OP2	1.76	0.85
1:AA:231:G:H2'	1:AA:232:G:H8	1.39	0.85
1:AA:707:C:H2'	1:AA:708:C:C6	2.11	0.85
2:AB:12:GLU:O	2:AB:16:HIS:ND1	2.08	0.85
12:AL:54:LYS:HD2	12:AL:54:LYS:H	1.39	0.85
13:AM:90:LEU:H	13:AM:90:LEU:HD23	1.40	0.85
24:AY:144:LEU:HB3	24:AY:179:PHE:CZ	2.11	0.85
24:AY:307:MET:CG	24:AY:312:ARG:HA	2.04	0.85
24:AY:324:LYS:CD	24:AY:358:GLU:HB2	2.06	0.85
35:BA:1258:C:H1'	40:BF:84:VAL:HG21	1.57	0.85
35:BA:1670:C:H2'	35:BA:1671:U:O4'	1.76	0.85
35:BA:2840:C:OP1	49:BR:50:HIS:HA	1.76	0.85
35:BA:500:G:H22	35:BA:502:A:H3'	1.38	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:871:U:H4'	48:BQ:69:PHE:CZ	2.12	0.85
42:BH:132:ARG:HG2	42:BH:133:VAL:H	1.32	0.85
42:BH:98:LEU:CB	42:BH:125:VAL:HG21	2.06	0.85
45:BN:3:THR:HG22	45:BN:5:VAL:HG23	1.58	0.85
45:BN:96:GLU:HG2	45:BN:97:ARG:H	1.41	0.85
46:BO:60:ALA:HB1	46:BO:85:VAL:O	1.75	0.85
35:BA:872:A:H5'	48:BQ:69:PHE:HE2	1.37	0.85
52:BU:106:PHE:HA	52:BU:109:LEU:HD12	1.58	0.85
57:BZ:18:LEU:HD22	57:BZ:18:LEU:H	1.41	0.85
5:AE:12:LEU:HD22	5:AE:13:ILE:H	1.37	0.85
10:AJ:5:ARG:HG2	10:AJ:71:LEU:HD11	1.58	0.85
13:AM:22:ILE:HB	13:AM:25:ILE:HD12	1.56	0.85
16:AP:45:THR:O	16:AP:47:ASP:N	2.08	0.85
29:B4:35:VAL:HG13	29:B4:39:CYS:SG	2.16	0.85
35:BA:1428:C:N4	35:BA:1569:A:H3'	1.91	0.85
36:BB:106:G:H2'	36:BB:107:G:H8	1.39	0.85
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.06	0.85
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.91	0.85
1:AA:1484:C:O2'	35:BA:1961:C:H5'	1.75	0.85
1:AA:949:A:C2'	1:AA:950:U:H5'	2.06	0.85
4:AD:99:SER:HB3	4:AD:139:ARG:CG	2.03	0.85
11:AK:115:PRO:C	11:AK:117:ASN:H	1.79	0.85
24:AY:164:ILE:CG1	24:AY:252:THR:HG23	2.05	0.85
24:AY:168:PRO:CG	24:AY:171:TRP:CZ2	2.59	0.85
24:AY:303:ILE:HG13	24:AY:375:ILE:CD1	2.06	0.85
35:BA:654(T):C:H2'	35:BA:654(U):A:O4'	1.74	0.85
38:BD:45:ASN:CG	38:BD:46:GLN:H	1.77	0.85
2:AB:8:LYS:O	2:AB:10:LEU:N	2.09	0.85
5:AE:87:SER:HB2	5:AE:130:ASN:HB3	1.57	0.85
15:AO:12:ILE:HG23	15:AO:27:VAL:CG1	2.06	0.85
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.39	0.85
22:AV:52:G:H1	22:AV:62:C:N4	1.73	0.85
35:BA:1496:A:H2'	35:BA:1498:C:N4	1.91	0.85
35:BA:2540:C:H2'	35:BA:2541:A:O4'	1.76	0.85
35:BA:729:G:O2'	35:BA:763:G:H4'	1.75	0.85
38:BD:165:ILE:HD12	38:BD:165:ILE:N	1.91	0.85
1:AA:194:C:H2'	1:AA:195:A:H5''	1.57	0.85
24:AY:32:LYS:HA	24:AY:35:LEU:CG	2.02	0.85
27:B2:46:GLN:HB3	27:B2:48:HIS:HE1	1.40	0.85
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.06	0.85
35:BA:540:C:H2'	35:BA:541:C:C6	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:877:U:O2'	35:BA:878:A:H5''	1.77	0.85
35:BA:962:G:N2	35:BA:963:U:H1'	1.91	0.85
39:BE:34:VAL:HG13	39:BE:48:GLN:HE21	1.40	0.85
41:BG:41:GLN:HG2	41:BG:155:MET:HB3	1.58	0.85
42:BH:122:THR:HG22	42:BH:123:PHE:N	1.91	0.85
45:BN:120:LEU:CD1	45:BN:122:VAL:HG23	2.07	0.85
49:BR:48:VAL:HA	49:BR:51:LEU:CD2	2.06	0.85
9:AI:5:TYR:O	9:AI:84:ALA:HA	1.74	0.85
1:AA:658:G:O2'	15:AO:22:THR:HG21	1.77	0.85
16:AP:60:LEU:HD11	16:AP:79:VAL:HG12	1.57	0.85
22:AV:48:C:C4'	22:AV:49:G:H5''	2.05	0.85
24:AY:138:LEU:HA	24:AY:253:PRO:HG2	1.59	0.85
24:AY:335:ARG:HG2	24:AY:335:ARG:NH2	1.87	0.85
35:BA:1199:U:H2'	35:BA:1200:C:C6	2.12	0.85
41:BG:170:ARG:HG3	41:BG:174:GLU:OE1	1.76	0.85
53:BV:72:VAL:HG23	53:BV:85:LYS:CB	2.07	0.85
57:BZ:10:ARG:HB3	57:BZ:36:LYS:HG3	1.58	0.85
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.40	0.85
10:AJ:50:ILE:HD13	10:AJ:60:ARG:HD3	1.59	0.85
11:AK:59:TYR:O	11:AK:62:GLN:HB3	1.76	0.85
24:AY:76:GLN:NE2	24:AY:85:ASN:HD21	1.75	0.85
33:B8:26:LYS:HB3	33:B8:44:LYS:HG3	1.59	0.85
35:BA:2257:U:O2'	35:BA:2258:C:H5'	1.77	0.85
37:BC:6:ARG:HH12	37:BC:10:LEU:HD21	1.41	0.85
46:BO:20:MET:O	46:BO:41:ALA:HB1	1.76	0.85
55:BX:12:VAL:CB	55:BX:17:ALA:HB1	2.07	0.85
57:BZ:48:PHE:CD1	57:BZ:52:SER:HA	2.12	0.85
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.55	0.85
5:AE:70:PRO:CG	5:AE:142:LEU:HB3	2.06	0.85
19:AS:51:VAL:HB	19:AS:58:VAL:CG2	2.07	0.85
24:AY:470:THR:CG2	24:AY:472:ARG:HH21	1.90	0.85
35:BA:1071:G:H5'	35:BA:1088:A:O2'	1.76	0.85
35:BA:209:C:H5'	35:BA:681:G:H4'	1.57	0.85
35:BA:839:U:H2'	35:BA:840:C:H6	1.42	0.85
38:BD:117:VAL:HG21	38:BD:128:GLY:HA3	1.56	0.85
53:BV:38:LEU:O	53:BV:39:LEU:HD13	1.76	0.85
11:AK:27:ASN:HA	11:AK:56:GLY:CA	2.07	0.85
27:B2:50:ILE:HG21	35:BA:61:G:C5'	2.05	0.85
35:BA:330:A:C2	35:BA:1210:A:H2'	2.08	0.85
35:BA:1516:C:H2'	35:BA:1517:G:H5''	1.58	0.85
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:803:U:C2'	35:BA:804:A:H5'	2.07	0.85
50:BS:65:VAL:O	50:BS:69:VAL:HG12	1.76	0.85
53:BV:7:THR:OG1	53:BV:25:LEU:HD11	1.75	0.85
1:AA:1166:G:N2	1:AA:1169:A:H3'	1.91	0.85
4:AD:13:ARG:HA	4:AD:33:MET:HE1	1.58	0.85
10:AJ:50:ILE:HD13	10:AJ:50:ILE:H	1.41	0.85
15:AO:36:ILE:HG12	15:AO:59:MET:HE1	1.57	0.85
24:AY:171:TRP:NE1	24:AY:234:VAL:HG11	1.91	0.85
28:B3:5:LYS:HA	28:B3:36:VAL:HG12	1.57	0.85
30:B5:11:THR:HG23	35:BA:2615:U:O2'	1.77	0.85
35:BA:1310:G:C2'	35:BA:1311:G:H5'	2.05	0.85
35:BA:1547:C:O2'	35:BA:1548:C:H5'	1.76	0.85
35:BA:2469:A:N7	35:BA:2482:G:H1'	1.92	0.85
41:BG:46:ALA:C	41:BG:47:LYS:HD2	1.95	0.85
48:BQ:29:PHE:HE2	48:BQ:67:ARG:HH21	1.23	0.85
54:BW:88:ARG:HG2	54:BW:88:ARG:HH11	1.37	0.85
2:AB:53:ARG:O	2:AB:56:ARG:HB2	1.75	0.84
15:AO:50:HIS:O	15:AO:53:HIS:HB3	1.77	0.84
24:AY:13:ARG:HD3	24:AY:363:ASP:CG	1.97	0.84
24:AY:14:ARG:HD3	24:AY:276:ALA:CB	2.06	0.84
24:AY:181:GLY:HA3	24:AY:263:PHE:HE1	1.40	0.84
24:AY:296:PHE:CD2	24:AY:331:LEU:HD11	2.12	0.84
35:BA:2839:G:H4'	49:BR:49:ASP:OD2	1.75	0.84
38:BD:106:ILE:O	38:BD:108:PRO:HD3	1.76	0.84
38:BD:201:HIS:O	38:BD:204:ILE:CG2	2.25	0.84
39:BE:51:PHE:O	39:BE:74:PRO:HB3	1.77	0.84
41:BG:71:THR:HB	41:BG:89:GLY:C	1.98	0.84
1:AA:356:A:H5''	1:AA:367:U:H5	1.40	0.84
3:AC:36:ASP:HB3	3:AC:40:ARG:NH1	1.92	0.84
5:AE:129:ILE:H	5:AE:129:ILE:CD1	1.90	0.84
10:AJ:65:LEU:CD1	14:AN:55:GLY:HA3	2.05	0.84
22:AV:17(A):U:O2'	22:AV:18:G:H4'	1.76	0.84
24:AY:373:ILE:HG22	24:AY:374:GLN:N	1.90	0.84
30:B5:19:ARG:C	30:B5:21:SER:H	1.77	0.84
35:BA:1468:C:H2'	35:BA:1469:A:H8	1.40	0.84
35:BA:2840:C:H2'	35:BA:2841:C:H6	1.41	0.84
38:BD:87:ASN:HB2	38:BD:88:ARG:NH2	1.92	0.84
35:BA:2784:C:C1'	39:BE:37:ARG:HH12	1.89	0.84
39:BE:65:GLY:O	39:BE:70:ALA:HB2	1.76	0.84
52:BU:69:CYS:HB2	52:BU:74:LEU:HD11	1.58	0.84
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:12:ARG:HB3	14:AN:14:PRO:HD2	1.59	0.84
24:AY:296:PHE:CG	24:AY:331:LEU:CD1	2.53	0.84
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.58	0.84
39:BE:50:GLY:CA	39:BE:78:LEU:HB3	2.06	0.84
47:BP:9:ASN:H	47:BP:10:PRO:HD2	1.42	0.84
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.12	0.84
2:AB:113:HIS:O	2:AB:117:GLU:HB2	1.76	0.84
24:AY:359:ALA:HB1	24:AY:363:ASP:CB	2.05	0.84
27:B2:50:ILE:HG22	27:B2:51:ARG:N	1.90	0.84
35:BA:1925:C:O2'	35:BA:1926:U:C6	2.30	0.84
35:BA:2801:A:H8	35:BA:2894:G:OP1	1.60	0.84
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.41	0.84
45:BN:26:LEU:O	45:BN:30:ILE:HG13	1.77	0.84
30:B5:30:LEU:HD11	54:BW:34:ASN:O	1.77	0.84
1:AA:404:U:H2'	1:AA:405:U:C6	2.11	0.84
5:AE:37:ARG:O	5:AE:38:GLN:HG2	1.78	0.84
6:AF:25:ILE:HA	6:AF:28:ARG:NH1	1.91	0.84
6:AF:82:ARG:HB2	6:AF:85:VAL:CG2	2.07	0.84
9:AI:114:TYR:CE2	10:AJ:59:SER:HA	2.12	0.84
16:AP:69:THR:HA	16:AP:72:ARG:HB3	1.60	0.84
34:B9:24:TYR:CZ	34:B9:35:ARG:HG3	2.12	0.84
35:BA:2137:C:N4	35:BA:2154:G:H22	1.75	0.84
35:BA:2348:U:O2'	35:BA:2349:G:H5'	1.78	0.84
57:BZ:10:ARG:HE	57:BZ:36:LYS:HB2	1.42	0.84
2:AB:127:ILE:HA	2:AB:135:GLN:NE2	1.93	0.84
7:AG:135:VAL:O	7:AG:138:LYS:HB3	1.76	0.84
35:BA:1038:C:C2'	35:BA:1039:G:H5''	2.07	0.84
35:BA:999:U:H5	35:BA:1154:G:C5	1.94	0.84
35:BA:2295:C:H2'	35:BA:2296:U:C6	2.13	0.84
35:BA:2329:G:H1	35:BA:2386:C:N4	1.76	0.84
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.07	0.84
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.12	0.84
45:BN:61:ARG:HG3	45:BN:61:ARG:HH11	1.42	0.84
54:BW:25:ARG:HA	54:BW:71:VAL:CG1	2.07	0.84
1:AA:981:U:H2'	1:AA:982:U:C5	2.12	0.84
5:AE:84:PHE:CE1	5:AE:133:TYR:HB3	2.12	0.84
12:AL:92:ASP:O	12:AL:93:LEU:HD23	1.78	0.84
35:BA:2491:U:H5'	35:BA:2570:G:H5''	1.60	0.84
30:B5:3:LYS:HE2	35:BA:2611:U:O2'	1.78	0.84
35:BA:473:G:H5''	35:BA:508:G:N2	1.90	0.84
35:BA:723:G:H2'	35:BA:724:U:C6	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:7:TYR:HB3	40:BF:16:GLY:O	1.76	0.84
1:AA:180:U:C2'	1:AA:181:G:H5'	2.08	0.84
2:AB:172:ILE:HD12	2:AB:172:ILE:N	1.92	0.84
11:AK:33:THR:HA	11:AK:39:PRO:HA	1.59	0.84
23:AX:14:A:H3'	23:AX:15:A:C5'	2.05	0.84
24:AY:111:MET:SD	24:AY:113:ILE:HD11	2.18	0.84
35:BA:122:G:H2'	35:BA:123:G:H8	1.40	0.84
35:BA:2389:G:H5''	35:BA:2390:U:H5'	1.58	0.84
42:BH:91:GLY:HA3	42:BH:94:TYR:CD2	2.12	0.84
47:BP:123:LEU:H	47:BP:123:LEU:HD23	1.42	0.84
51:BT:108:ARG:C	51:BT:110:ILE:H	1.79	0.84
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.57	0.84
12:AL:126:LYS:HE2	24:AY:487:ARG:NH2	1.92	0.84
14:AN:57:ARG:O	14:AN:59:ALA:N	2.11	0.84
12:AL:36:VAL:CG1	24:AY:406:PRO:HB3	2.07	0.84
32:B7:19:ARG:O	32:B7:22:MET:HB2	1.78	0.84
35:BA:1891:G:H2'	35:BA:1892:C:C6	2.11	0.84
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.13	0.84
37:BC:68:LEU:O	37:BC:177:LYS:HG2	1.77	0.84
38:BD:182:LEU:O	38:BD:272:ALA:HB2	1.78	0.84
52:BU:69:CYS:HB2	52:BU:74:LEU:CD1	2.08	0.84
54:BW:27:LYS:O	54:BW:71:VAL:HG23	1.78	0.84
1:AA:1368:G:OP2	9:AI:112:LYS:HD2	1.78	0.84
1:AA:1393:U:H2'	1:AA:1395:C:H5	1.42	0.84
1:AA:1495:U:C2'	1:AA:1496:C:H5'	2.06	0.84
7:AG:65:ALA:CB	7:AG:124:LEU:HD23	2.07	0.84
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	1.78	0.84
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.59	0.84
24:AY:164:ILE:HD11	24:AY:251:ILE:C	1.97	0.84
38:BD:71:ASP:CB	38:BD:103:ARG:HH12	1.91	0.84
40:BF:125:LEU:HD12	40:BF:196:LEU:HD21	1.60	0.84
42:BH:70:THR:HA	42:BH:73:ALA:HB3	1.59	0.84
47:BP:97:PRO:C	47:BP:99:LEU:H	1.80	0.84
49:BR:48:VAL:CA	49:BR:51:LEU:HD22	2.08	0.84
56:BY:49:VAL:O	56:BY:50:ARG:HB2	1.76	0.84
56:BY:43:ASN:HB3	56:BY:64:GLU:HA	1.59	0.84
1:AA:310:G:H2'	1:AA:311:C:H6	1.42	0.83
1:AA:949:A:H2'	1:AA:950:U:H5'	1.59	0.83
1:AA:982:U:H4'	1:AA:983:A:O5'	1.78	0.83
2:AB:127:ILE:HA	2:AB:135:GLN:HE22	1.42	0.83
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:61:GLU:OE1	14:AN:45:ARG:HD2	1.77	0.83
27:B2:25:VAL:O	27:B2:29:LYS:HG2	1.78	0.83
35:BA:1914:C:O2	35:BA:1914:C:H5'	1.78	0.83
35:BA:272(J):C:C2'	35:BA:274:G:H5''	2.07	0.83
35:BA:6:A:H2'	35:BA:7:G:C8	2.13	0.83
37:BC:43:VAL:HG22	37:BC:214:VAL:HG22	1.60	0.83
55:BX:12:VAL:CG2	55:BX:13:LEU:H	1.90	0.83
56:BY:13:VAL:HB	56:BY:28:LYS:NZ	1.91	0.83
1:AA:375:U:H2'	1:AA:376:G:H8	1.43	0.83
1:AA:892:A:H2'	1:AA:893:C:C6	2.12	0.83
24:AY:404:LYS:O	24:AY:405:ASP:HB2	1.77	0.83
24:AY:428:PHE:HB2	24:AY:437:ILE:HG13	1.59	0.83
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.42	0.83
37:BC:76:ALA:HB2	37:BC:153:ILE:HD11	1.60	0.83
37:BC:47:LEU:HD12	37:BC:47:LEU:N	1.92	0.83
47:BP:28:GLY:O	47:BP:29:LYS:HD2	1.78	0.83
2:AB:100:GLY:HA2	2:AB:103:THR:OG1	1.78	0.83
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.24	0.83
4:AD:187:ARG:NH1	4:AD:187:ARG:HB3	1.93	0.83
22:AV:39:C:H2'	22:AV:40:C:H5'	1.60	0.83
25:B0:48:GLY:H	25:B0:51:VAL:HB	1.41	0.83
35:BA:1925:C:C2'	35:BA:1926:U:C5'	2.56	0.83
35:BA:2177:C:H5'	35:BA:2178:C:OP2	1.78	0.83
35:BA:2268:A:O2'	35:BA:2269:A:H5'	1.77	0.83
35:BA:612:C:C2'	35:BA:613:G:H5''	2.09	0.83
38:BD:79:VAL:HG22	38:BD:115:GLN:O	1.79	0.83
38:BD:242:ARG:HH11	38:BD:242:ARG:HG2	1.44	0.83
40:BF:157:VAL:CG2	40:BF:194:MET:HA	2.08	0.83
47:BP:71:VAL:H	47:BP:72:PRO:HD3	1.43	0.83
10:AJ:53:PRO:HA	14:AN:41:ARG:NH2	1.93	0.83
35:BA:654(M):C:H2'	35:BA:654(N):G:C8	2.13	0.83
35:BA:783:A:C2	35:BA:785:G:H1'	2.13	0.83
45:BN:9:VAL:HG21	45:BN:41:ASP:OD2	1.77	0.83
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.09	0.83
10:AJ:53:PRO:C	14:AN:41:ARG:HH22	1.80	0.83
24:AY:136:PRO:O	24:AY:137:ILE:HG13	1.77	0.83
35:BA:1925:C:H2'	35:BA:1926:U:H5''	1.57	0.83
35:BA:2066:C:H2'	35:BA:2067:G:H8	1.44	0.83
38:BD:24:ILE:HG12	38:BD:82:ILE:CG2	2.08	0.83
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.78	0.83
1:AA:1489:G:H2'	1:AA:1490:C:C6	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:858:G:O2'	1:AA:859:A:H5''	1.79	0.83
6:AF:47:ARG:HB3	6:AF:47:ARG:CZ	2.08	0.83
24:AY:135:THR:HG23	24:AY:136:PRO:HD2	0.85	0.83
24:AY:221:GLU:HG2	24:AY:222:ASP:N	1.94	0.83
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.77	0.83
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	1.94	0.83
51:BT:58:ASN:HD22	51:BT:58:ASN:H	0.84	0.83
52:BU:59:ARG:O	52:BU:63:VAL:HG23	1.76	0.83
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.14	0.83
1:AA:580:U:H2'	1:AA:581:G:O4'	1.77	0.83
1:AA:895:G:O6	1:AA:904:C:N3	2.10	0.83
1:AA:990:C:H2'	1:AA:991:U:C6	2.14	0.83
1:AA:619:U:H2'	4:AD:135:LEU:HD21	1.58	0.83
6:AF:72:VAL:HG13	6:AF:73:ASN:N	1.92	0.83
14:AN:47:LEU:HD13	14:AN:52:GLN:HB2	1.60	0.83
24:AY:168:PRO:HG2	24:AY:171:TRP:CZ2	2.13	0.83
24:AY:445:GLN:HA	24:AY:448:VAL:CG2	2.09	0.83
35:BA:2509:G:O2'	35:BA:2510:C:H5'	1.79	0.83
35:BA:909:A:H2'	35:BA:912:C:H41	1.42	0.83
37:BC:47:LEU:CD1	37:BC:171:ILE:HB	2.09	0.83
42:BH:105:LEU:CD2	42:BH:105:LEU:H	1.91	0.83
51:BT:80:SER:HB3	51:BT:81:PRO:HD3	1.59	0.83
8:AH:13:ILE:O	8:AH:17:THR:HG23	1.77	0.83
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.59	0.83
15:AO:65:ARG:HH11	15:AO:65:ARG:CB	1.92	0.83
16:AP:56:ALA:O	16:AP:60:LEU:HG	1.78	0.83
24:AY:196:GLY:O	24:AY:197:LYS:HG2	1.78	0.83
24:AY:263:PHE:CD2	24:AY:263:PHE:O	2.30	0.83
24:AY:11:ALA:HA	24:AY:279:PRO:HD2	1.58	0.83
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.42	0.83
35:BA:1427:A:H1'	35:BA:1428:C:C5	2.14	0.83
35:BA:1915:U:H2'	35:BA:1916:A:C5'	2.08	0.83
35:BA:721:C:H3'	35:BA:722:A:H8	1.44	0.83
37:BC:37:PHE:CE1	37:BC:39:GLU:HG3	2.14	0.83
38:BD:169:GLU:OE1	38:BD:184:LYS:HD2	1.78	0.83
39:BE:199:ARG:HB2	39:BE:199:ARG:HH11	1.38	0.83
41:BG:110:ALA:HB2	41:BG:140:ILE:HD13	1.60	0.83
45:BN:58:ASP:OD2	45:BN:59:LYS:HG2	1.78	0.83
51:BT:107:ASP:H	51:BT:110:ILE:HG12	1.40	0.83
3:AC:121:ALA:O	3:AC:124:ILE:HB	1.79	0.83
4:AD:8:VAL:CG2	4:AD:22:LYS:HE2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:112:LYS:HD3	9:AI:112:LYS:C	1.99	0.83
12:AL:24:VAL:O	12:AL:26:ALA:N	2.12	0.83
22:AV:27:U:H2'	22:AV:28:C:H5'	1.61	0.83
24:AY:11:ALA:HA	24:AY:278:ALA:CB	2.08	0.83
35:BA:2265:U:H2'	35:BA:2266:A:C8	2.13	0.83
37:BC:100:ILE:HG12	37:BC:127:MET:HE2	1.60	0.83
38:BD:6:PHE:CD2	38:BD:17:THR:HA	2.14	0.83
54:BW:14:PRO:CG	54:BW:101:SER:HB3	2.09	0.83
1:AA:1283:G:HO2'	1:AA:1284:C:H6	1.19	0.83
1:AA:112:G:C5'	1:AA:389:A:H4'	2.08	0.83
3:AC:48:TYR:HE1	3:AC:118:GLN:NE2	1.77	0.83
4:AD:19:LEU:HD23	4:AD:21:LEU:HD11	1.61	0.83
5:AE:81:GLU:HG2	5:AE:90:VAL:HG13	1.58	0.83
11:AK:52:GLY:H	11:AK:55:LYS:CE	1.91	0.83
29:B4:10:VAL:HG23	29:B4:11:PRO:HD2	1.61	0.83
33:B8:19:SER:HB2	33:B8:21:LYS:HE3	1.57	0.83
33:B8:8:LYS:HZ2	33:B8:11:LYS:HE2	1.44	0.83
38:BD:69:ARG:NE	38:BD:105:ILE:HD11	1.93	0.83
38:BD:9:TYR:OH	38:BD:13:ARG:HD3	1.78	0.83
38:BD:24:ILE:HG12	38:BD:82:ILE:HG22	1.61	0.83
42:BH:94:TYR:HB3	42:BH:107:VAL:CG1	2.09	0.83
48:BQ:1:MET:HE1	48:BQ:48:GLU:HB2	1.60	0.83
49:BR:17:ARG:HB2	49:BR:17:ARG:NH1	1.94	0.83
10:AJ:50:ILE:CA	10:AJ:60:ARG:HG2	2.07	0.82
24:AY:26:LYS:HG2	58:AY:1000:GCP:O2B	1.79	0.82
24:AY:403:LEU:H	24:AY:403:LEU:HD22	1.41	0.82
35:BA:1915:U:C2'	35:BA:1916:A:H5'	2.09	0.82
35:BA:2009:G:H2'	35:BA:2010:G:H8	1.43	0.82
35:BA:2588:G:H2'	35:BA:2589:A:O4'	1.78	0.82
36:BB:13:A:O2'	36:BB:14:U:H3'	1.77	0.82
40:BF:29:ASN:HB3	40:BF:112:MET:SD	2.18	0.82
49:BR:48:VAL:HA	49:BR:51:LEU:HB2	1.60	0.82
51:BT:80:SER:CB	51:BT:81:PRO:HD3	2.08	0.82
1:AA:1383:C:H2'	1:AA:1384:C:C6	2.14	0.82
12:AL:89:ARG:HD3	12:AL:90:VAL:N	1.95	0.82
24:AY:104:THR:O	24:AY:105:ALA:HB2	1.77	0.82
24:AY:10:VAL:HG11	24:AY:291:ALA:HB1	1.61	0.82
24:AY:513:LEU:HB3	24:AY:517:ARG:HE	1.44	0.82
28:B3:43:ILE:O	28:B3:47:VAL:HG23	1.78	0.82
35:BA:1854:A:H62	35:BA:1888:G:H8	1.24	0.82
35:BA:210:C:H2'	35:BA:211:A:C8	2.14	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2159:G:H2'	35:BA:2160:G:C5'	2.09	0.82
35:BA:2457:U:O2'	35:BA:2458:G:H5'	1.79	0.82
35:BA:814:C:OP1	53:BV:84:LYS:N	2.12	0.82
40:BF:81:PRO:HA	40:BF:87:GLY:O	1.79	0.82
48:BQ:133:ARG:CG	48:BQ:134:ARG:H	1.91	0.82
35:BA:996:A:H4'	52:BU:92:ARG:NE	1.94	0.82
1:AA:741:G:H2'	1:AA:742:G:H8	1.44	0.82
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.61	0.82
13:AM:75:ALA:O	13:AM:79:LYS:HG3	1.78	0.82
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.79	0.82
24:AY:109:CYS:HB2	24:AY:137:ILE:HG21	1.60	0.82
24:AY:138:LEU:HB3	24:AY:255:PHE:HE1	1.44	0.82
24:AY:309:PRO:HG3	24:AY:313:ASP:OD2	1.79	0.82
35:BA:2052:G:H4'	39:BE:143:ASN:O	1.78	0.82
35:BA:2584:U:O2'	35:BA:2585:U:H5'	1.79	0.82
38:BD:14:ARG:HG2	38:BD:14:ARG:HH11	1.42	0.82
48:BQ:134:ARG:NH1	57:BZ:122:ARG:NH2	2.25	0.82
48:BQ:55:VAL:HA	48:BQ:58:PHE:CE1	2.13	0.82
1:AA:1495:U:H2'	1:AA:1496:C:H5'	1.58	0.82
1:AA:80:G:H3'	1:AA:81:U:H5'	1.62	0.82
25:B0:37:LEU:HD21	25:B0:60:PHE:CA	2.08	0.82
35:BA:1190:G:H2'	35:BA:1191:G:C8	2.15	0.82
35:BA:1827:C:H2'	35:BA:1828:G:O4'	1.80	0.82
35:BA:1977:A:H2'	35:BA:1978:A:O4'	1.78	0.82
35:BA:2439:A:H5'	35:BA:2439:A:C8	2.13	0.82
37:BC:64:LEU:HD13	37:BC:175:VAL:O	1.79	0.82
35:BA:2591:C:P	38:BD:239:ARG:HG3	2.19	0.82
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.03	0.82
51:BT:11:GLU:H	51:BT:11:GLU:CD	1.82	0.82
52:BU:91:ASP:OD1	52:BU:96:ALA:HB2	1.80	0.82
56:BY:13:VAL:HG23	56:BY:74:PRO:HA	1.60	0.82
1:AA:1320:C:H5'	1:AA:1320:C:H6	1.44	0.82
1:AA:1321:C:H5'	1:AA:1322:C:C5'	2.10	0.82
1:AA:1408:A:H2	35:BA:1913:A:H62	1.28	0.82
1:AA:92:C:H2'	1:AA:93:G:H8	1.45	0.82
2:AB:220:ASP:CA	2:AB:223:ILE:HD12	2.09	0.82
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.61	0.82
13:AM:13:LYS:HA	13:AM:44:ARG:NH1	1.92	0.82
1:AA:668:G:O2'	15:AO:46:HIS:HB3	1.79	0.82
15:AO:3:ILE:HG13	15:AO:8:LYS:HE2	1.60	0.82
16:AP:20:VAL:HA	16:AP:36:ILE:HG12	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1187:G:H5''	53:BV:81:TYR:CE1	2.15	0.82
35:BA:1912:A:C5'	35:BA:1918:A:N6	2.41	0.82
35:BA:244:A:H5'	35:BA:245:G:OP2	1.77	0.82
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.15	0.82
35:BA:847:U:H2'	35:BA:848:G:H5''	1.61	0.82
35:BA:912:C:O2'	35:BA:913:U:H5'	1.77	0.82
38:BD:158:ALA:HB3	38:BD:161:THR:OG1	1.79	0.82
42:BH:94:TYR:HB3	42:BH:107:VAL:HG12	1.59	0.82
1:AA:401:C:H2'	1:AA:402:G:C8	2.13	0.82
16:AP:73:LEU:HD23	16:AP:76:GLN:NE2	1.93	0.82
26:B1:76:ARG:HA	35:BA:271(Q):G:H4'	1.62	0.82
35:BA:629:G:H1'	35:BA:639:U:H1'	1.61	0.82
38:BD:60:ARG:CD	38:BD:86:PRO:HB2	2.08	0.82
45:BN:91:LEU:CA	45:BN:95:PRO:HB3	2.10	0.82
35:BA:833:U:H5''	47:BP:48:PRO:CB	2.09	0.82
1:AA:1204:A:H2'	1:AA:1205:U:H6	1.45	0.82
2:AB:162:ILE:HG12	2:AB:163:PHE:N	1.94	0.82
5:AE:54:ALA:O	5:AE:58:ALA:HB2	1.80	0.82
24:AY:155:LEU:HB3	24:AY:166:CYS:SG	2.19	0.82
24:AY:189:GLU:CG	24:AY:189:GLU:O	2.27	0.82
24:AY:282:ARG:HD3	24:AY:319:ARG:HH22	1.45	0.82
33:B8:33:ASN:HA	33:B8:36:LYS:HD3	1.62	0.82
35:BA:1024:G:H3'	35:BA:1025:G:C5'	2.08	0.82
35:BA:1457:A:O2'	35:BA:1458:C:H5'	1.80	0.82
35:BA:1803:A:H2'	35:BA:1804:C:H6	1.45	0.82
35:BA:2118:U:OP1	35:BA:2148:G:H4'	1.79	0.82
35:BA:2443:C:O2'	35:BA:2444:G:H5'	1.79	0.82
35:BA:873:G:O2'	35:BA:874:G:H5'	1.80	0.82
36:BB:102:A:C3'	36:BB:103:G:H8	1.92	0.82
40:BF:179:GLU:HG3	40:BF:201:VAL:CG2	2.09	0.82
48:BQ:10:ARG:NH1	48:BQ:10:ARG:HB2	1.94	0.82
52:BU:92:ARG:HD2	53:BV:11:GLN:HG3	1.60	0.82
1:AA:163:C:H2'	1:AA:164:U:C6	2.14	0.82
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.37	0.82
5:AE:32:VAL:O	5:AE:43:LEU:HD12	1.79	0.82
9:AI:114:TYR:HE2	10:AJ:59:SER:HA	1.45	0.82
1:AA:1498:U:C4	23:AX:17:U:H4'	2.14	0.82
24:AY:484:GLU:O	24:AY:488:LYS:HB2	1.80	0.82
25:B0:52:GLY:HA3	25:B0:60:PHE:CE1	2.14	0.82
35:BA:1327:C:H2'	35:BA:1328:G:O4'	1.80	0.82
35:BA:1998:G:H4'	35:BA:2724:C:H4'	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:473:G:H5''	35:BA:508:G:H22	1.41	0.82
35:BA:659:C:H2'	35:BA:660:G:H8	1.44	0.82
35:BA:730:C:H2'	35:BA:731:C:C6	2.13	0.82
35:BA:1819:A:H5''	38:BD:158:ALA:HB2	1.60	0.82
38:BD:243:GLY:O	38:BD:244:ARG:HB3	1.79	0.82
35:BA:1805:U:H5'	38:BD:250:TRP:CE3	2.14	0.82
39:BE:49:LEU:O	39:BE:78:LEU:HB2	1.80	0.82
39:BE:77:ILE:HG22	39:BE:78:LEU:N	1.94	0.82
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.80	0.82
45:BN:2:LYS:HZ3	52:BU:95:LEU:HD21	1.43	0.82
51:BT:55:ASN:N	51:BT:59:THR:HG22	1.94	0.82
2:AB:18:GLY:H	2:AB:42:ILE:CG2	1.92	0.82
5:AE:98:THR:HG21	5:AE:119:LEU:HD21	1.61	0.82
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.15	0.82
35:BA:740:U:H2'	35:BA:741:G:C8	2.14	0.82
36:BB:115:G:H2'	36:BB:116:G:H8	1.44	0.82
39:BE:63:LEU:O	39:BE:63:LEU:HD23	1.79	0.82
51:BT:22:PHE:HE2	51:BT:85:LYS:NZ	1.77	0.82
52:BU:48:ALA:O	52:BU:52:ARG:HG3	1.78	0.82
53:BV:75:PHE:CZ	53:BV:77:ALA:HA	2.15	0.82
1:AA:738:C:H2'	1:AA:739:C:H6	1.45	0.82
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.01	0.82
35:BA:1839:G:C8	35:BA:1927:A:H1'	2.15	0.82
35:BA:1924:C:P	35:BA:1924:C:H2'	2.19	0.82
35:BA:2391:G:C6	35:BA:2427:C:H1'	2.14	0.82
35:BA:572:A:H2'	35:BA:573:G:O4'	1.80	0.82
35:BA:2684:U:C1'	46:BO:70:LYS:HD2	2.09	0.82
33:B8:12:LYS:HD3	47:BP:68:GLN:HG3	1.62	0.82
49:BR:55:ALA:HB2	49:BR:79:LEU:HD11	1.61	0.82
3:AC:30:ARG:HD3	14:AN:35:ARG:O	1.79	0.81
24:AY:411:GLN:OE1	24:AY:414:LYS:HD2	1.80	0.81
25:B0:43:THR:HG21	35:BA:2332:U:H5'	1.62	0.81
27:B2:61:LEU:O	27:B2:64:LEU:HB3	1.80	0.81
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.43	0.81
35:BA:1778:U:H2'	35:BA:1784:A:N6	1.95	0.81
35:BA:1912:A:H5''	35:BA:1918:A:H61	1.42	0.81
35:BA:2575:C:H5''	35:BA:2576:G:OP2	1.80	0.81
36:BB:75:G:H2'	57:BZ:85:HIS:CE1	2.15	0.81
38:BD:2:ALA:O	38:BD:3:VAL:HG23	1.79	0.81
52:BU:78:THR:O	52:BU:81:HIS:HB3	1.79	0.81
52:BU:112:ARG:NH1	53:BV:46:VAL:HG11	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1346:A:C5'	9:AI:120:ARG:HH12	1.94	0.81
4:AD:10:ARG:O	4:AD:13:ARG:HB2	1.79	0.81
8:AH:1:MET:HE3	8:AH:3:THR:N	1.94	0.81
8:AH:82:HIS:CD2	8:AH:138:TRP:HE1	1.97	0.81
19:AS:46:GLY:H	19:AS:62:ILE:CG2	1.92	0.81
20:AT:91:LEU:C	20:AT:93:GLU:H	1.83	0.81
24:AY:105:ALA:CB	24:AY:319:ARG:HD3	2.09	0.81
33:B8:45:GLY:O	33:B8:46:ARG:HB2	1.79	0.81
35:BA:1958:C:O2'	35:BA:1959:G:H5'	1.80	0.81
35:BA:673:C:H6	35:BA:673:C:H5'	1.45	0.81
35:BA:94(A):G:H2'	35:BA:95:G:C5'	2.10	0.81
37:BC:137:LEU:HD22	37:BC:138:PRO:HD2	1.61	0.81
37:BC:175:VAL:HG11	37:BC:189:ILE:HG13	1.62	0.81
1:AA:1087:G:N2	1:AA:1099:G:H1'	1.94	0.81
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.15	0.81
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.11	0.81
3:AC:123:GLN:HB3	3:AC:128:PHE:HD2	1.44	0.81
6:AF:69:GLU:CD	6:AF:69:GLU:H	1.81	0.81
15:AO:25:THR:OG1	15:AO:70:LEU:HD21	1.79	0.81
28:B3:8:LEU:HD22	28:B3:32:GLN:H	1.44	0.81
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.15	0.81
35:BA:1912:A:H5'	35:BA:1918:A:N6	1.95	0.81
35:BA:2184:G:H2'	35:BA:2185:C:C1'	2.10	0.81
35:BA:2413:G:H21	47:BP:70:GLN:HE22	1.28	0.81
35:BA:2868:A:H2'	35:BA:2869:G:C8	2.15	0.81
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.14	0.81
45:BN:44:PRO:O	45:BN:45:ASN:HB3	1.80	0.81
46:BO:89:ASN:C	46:BO:91:LEU:H	1.83	0.81
52:BU:80:ILE:O	52:BU:84:LYS:HB2	1.80	0.81
55:BX:24:GLY:O	55:BX:82:GLN:HA	1.79	0.81
14:AN:13:THR:N	14:AN:14:PRO:CD	2.42	0.81
16:AP:45:THR:C	16:AP:47:ASP:H	1.82	0.81
24:AY:296:PHE:CD1	24:AY:331:LEU:CD1	2.63	0.81
31:B6:26:ASN:HD22	31:B6:32:ASN:HD21	1.26	0.81
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.11	0.81
35:BA:2057:A:H2'	35:BA:2058:A:C8	2.15	0.81
35:BA:2489:G:H8	35:BA:2489:G:O5'	1.62	0.81
35:BA:2459:A:N6	35:BA:2493:U:H3	1.78	0.81
38:BD:71:ASP:HB3	38:BD:103:ARG:HH12	1.45	0.81
40:BF:24:LEU:O	40:BF:115:ALA:HB1	1.79	0.81
46:BO:88:ASN:ND2	46:BO:92:GLU:HB3	1.95	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:79:LEU:O	49:BR:79:LEU:HD22	1.80	0.81
55:BX:28:PHE:CZ	55:BX:81:VAL:HG21	2.15	0.81
1:AA:1417:G:H2'	1:AA:1482:G:H22	1.45	0.81
2:AB:84:GLU:OE1	2:AB:216:SER:HA	1.80	0.81
2:AB:42:ILE:HD12	2:AB:203:GLY:CA	2.09	0.81
3:AC:30:ARG:HB2	14:AN:36:PHE:O	1.81	0.81
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.44	0.81
13:AM:56:LEU:HD13	13:AM:60:VAL:HG21	1.62	0.81
15:AO:65:ARG:HH11	15:AO:65:ARG:HB3	1.46	0.81
24:AY:446:PHE:O	24:AY:450:VAL:HG23	1.81	0.81
35:BA:1770:G:O2'	35:BA:1771:C:H5'	1.79	0.81
35:BA:2343:C:H2'	35:BA:2344:U:C6	2.15	0.81
35:BA:2682:U:O2	39:BE:22:PRO:HB3	1.78	0.81
35:BA:908:C:O2'	35:BA:909:A:H5'	1.80	0.81
1:AA:1283:G:O2'	1:AA:1284:C:H6	1.64	0.81
1:AA:390:C:H2'	1:AA:391:G:C8	2.16	0.81
1:AA:882:C:N4	12:AL:5:PRO:HB3	1.96	0.81
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.80	0.81
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HD2	2.15	0.81
11:AK:30:VAL:CG2	11:AK:68:ALA:HB2	2.11	0.81
15:AO:58:MET:SD	15:AO:58:MET:N	2.54	0.81
22:AV:5:G:H2'	22:AV:6:G:H8	1.45	0.81
24:AY:183:TYR:HE2	24:AY:189:GLU:CA	1.93	0.81
24:AY:511:LEU:O	24:AY:515:GLN:HG2	1.81	0.81
35:BA:2484:G:H1'	48:BQ:124:LYS:HD2	1.62	0.81
35:BA:608:A:H2'	35:BA:609:A:C8	2.16	0.81
35:BA:1789:A:OP1	38:BD:222:ARG:HG2	1.80	0.81
38:BD:263:ARG:CG	38:BD:263:ARG:HH11	1.93	0.81
53:BV:39:LEU:O	53:BV:40:LEU:HB2	1.80	0.81
24:AY:138:LEU:HD22	24:AY:275:TRP:CE3	2.14	0.81
24:AY:402:ARG:O	24:AY:461:ALA:HB1	1.79	0.81
35:BA:1428:C:N4	35:BA:1570:A:OP2	2.13	0.81
35:BA:1917:U:H2'	35:BA:1918:A:H5'	1.62	0.81
35:BA:300:A:H2'	35:BA:334:C:O2'	1.80	0.81
35:BA:976:C:H42	35:BA:987:G:H1	1.27	0.81
38:BD:201:HIS:O	38:BD:204:ILE:HG22	1.79	0.81
38:BD:229:VAL:HG13	38:BD:230:ASP:N	1.95	0.81
41:BG:56:ALA:HA	41:BG:153:ARG:HH21	1.42	0.81
45:BN:120:LEU:HD11	45:BN:122:VAL:HG23	1.62	0.81
48:BQ:35:VAL:CG1	48:BQ:130:LYS:HB3	2.09	0.81
49:BR:97:VAL:HA	49:BR:113:LEU:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:89:ARG:CB	50:BS:92:TYR:HB3	2.11	0.81
1:AA:950:U:H2'	1:AA:951:G:C8	2.15	0.81
4:AD:147:ALA:HB2	4:AD:182:LYS:HG2	1.63	0.81
5:AE:76:ILE:HD11	5:AE:78:HIS:O	1.80	0.81
12:AL:89:ARG:HH11	12:AL:91:LYS:HA	1.45	0.81
15:AO:29:VAL:CG2	15:AO:67:LEU:HD21	2.10	0.81
17:AQ:10:VAL:CG1	17:AQ:53:LEU:HA	2.11	0.81
21:AU:10:ARG:CA	21:AU:13:ILE:HD12	2.11	0.81
24:AY:331:LEU:HD22	24:AY:379:PHE:HD2	0.65	0.81
28:B3:45:GLY:HA2	28:B3:48:GLU:HG3	1.60	0.81
35:BA:1938:A:O2'	35:BA:1939:U:H5'	1.80	0.81
38:BD:35:LYS:N	38:BD:36:PRO:HD2	1.95	0.81
39:BE:114:ALA:CB	39:BE:160:TYR:HB3	2.11	0.81
41:BG:42:GLY:HA2	41:BG:90:LEU:N	1.95	0.81
42:BH:27:LYS:HG2	42:BH:32:GLU:HG2	1.62	0.81
1:AA:920:U:H1'	1:AA:1080:A:C2	2.16	0.81
3:AC:86:VAL:HG23	3:AC:87:LEU:HD23	1.61	0.81
31:B6:11:LEU:HD21	31:B6:51:GLU:HG2	1.62	0.81
35:BA:2115:G:H22	35:BA:2119:A:P	2.04	0.81
35:BA:589:C:H2'	35:BA:590:A:H8	1.46	0.81
35:BA:67:U:H2'	35:BA:68:G:C8	2.16	0.81
38:BD:16:MET:HB3	38:BD:207:GLY:CA	2.11	0.81
39:BE:47:VAL:HG21	39:BE:86:PRO:HD2	1.61	0.81
35:BA:565:C:OP2	53:BV:78:LYS:HG3	1.80	0.81
36:BB:75:G:O2'	57:BZ:10:ARG:NH2	2.14	0.81
6:AF:87:ARG:CG	6:AF:87:ARG:HH11	1.94	0.81
13:AM:91:ARG:H	13:AM:94:ARG:HB2	1.44	0.81
24:AY:103:LEU:HD12	24:AY:103:LEU:H	1.45	0.81
24:AY:513:LEU:HD13	24:AY:517:ARG:HH21	1.46	0.81
30:B5:13:LYS:CA	30:B5:16:ARG:HB3	2.11	0.81
31:B6:53:LYS:O	31:B6:54:ILE:HG22	1.80	0.81
35:BA:1291:C:C2'	35:BA:1292:U:H5'	2.10	0.81
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.44	0.81
38:BD:30:GLU:HA	38:BD:83:GLU:OE1	1.80	0.81
57:BZ:57:ILE:HD13	57:BZ:70:LEU:HA	1.63	0.81
1:AA:598:U:H2'	1:AA:599:C:H6	1.46	0.81
2:AB:178:ARG:HH11	2:AB:178:ARG:HG3	1.43	0.81
14:AN:3:ARG:O	14:AN:7:ILE:HG23	1.81	0.81
24:AY:6:TYR:HA	24:AY:360:TYR:HE2	1.45	0.81
35:BA:1121:C:H2'	35:BA:1122:G:C8	2.13	0.81
35:BA:2184:G:H2'	35:BA:2185:C:H1'	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2199:A:H5''	35:BA:2200:C:C5	2.16	0.81
35:BA:2472:G:H21	35:BA:2478:A:H62	1.29	0.81
35:BA:628:G:H2'	35:BA:629:G:C5'	2.11	0.81
37:BC:47:LEU:HD21	37:BC:171:ILE:HD12	1.63	0.81
37:BC:3:HIS:HB3	37:BC:7:TYR:HD2	1.45	0.81
38:BD:4:LYS:HE3	38:BD:20:ASP:OD1	1.80	0.81
39:BE:3:GLY:O	39:BE:4:ILE:HB	1.80	0.81
42:BH:12:PRO:HD2	42:BH:15:VAL:CG2	2.11	0.81
52:BU:15:LYS:O	52:BU:18:LEU:HB2	1.80	0.81
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.16	0.80
1:AA:59:A:O2'	1:AA:388:G:H3'	1.81	0.80
7:AG:24:THR:HG22	7:AG:27:ILE:HD12	1.63	0.80
11:AK:57:THR:HG23	11:AK:60:ALA:H	1.44	0.80
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.45	0.80
13:AM:90:LEU:O	13:AM:91:ARG:HB2	1.80	0.80
22:AV:26:G:N2	22:AV:44:A:H61	1.78	0.80
24:AY:403:LEU:N	24:AY:403:LEU:HD22	1.96	0.80
24:AY:90:PRO:HD2	24:AY:99:THR:HG21	1.63	0.80
27:B2:46:GLN:HB3	27:B2:48:HIS:CE1	2.15	0.80
35:BA:1084:A:OP1	43:BJ:55:UNK:HA	1.81	0.80
35:BA:1255:U:O5'	35:BA:1256:G:H5''	1.80	0.80
35:BA:1394:U:H4'	35:BA:1603:A:H4'	1.62	0.80
35:BA:2393:A:C4	35:BA:2394:C:C6	2.69	0.80
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.46	0.80
41:BG:140:ILE:HD12	41:BG:141:PHE:N	1.97	0.80
47:BP:122:PRO:HB3	47:BP:141:ALA:HB3	1.62	0.80
48:BQ:134:ARG:HH11	57:BZ:122:ARG:HH21	1.27	0.80
1:AA:1398:A:H61	5:AE:22:GLY:H	1.29	0.80
19:AS:16:LEU:H	19:AS:16:LEU:HD12	1.45	0.80
35:BA:1930:G:H22	35:BA:1968:G:H2'	1.41	0.80
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.16	0.80
35:BA:30:G:H2'	35:BA:31:C:C6	2.17	0.80
35:BA:845:G:H8	35:BA:845:G:OP2	1.64	0.80
36:BB:68:C:H2'	36:BB:69:G:H8	1.46	0.80
38:BD:124:PRO:HB2	38:BD:129:ASN:ND2	1.96	0.80
41:BG:113:ARG:HE	41:BG:113:ARG:HA	1.43	0.80
42:BH:35:VAL:HG12	42:BH:72:ILE:HD11	1.62	0.80
45:BN:36:GLY:O	45:BN:42:TRP:HB2	1.80	0.80
49:BR:99:LYS:H	49:BR:99:LYS:HD2	1.46	0.80
1:AA:1407:C:H2'	1:AA:1408:A:H5'	1.62	0.80
2:AB:54:THR:HG21	2:AB:201:ILE:CD1	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:28:ALA:HB3	8:AH:57:PRO:HB2	1.63	0.80
12:AL:126:LYS:HB2	24:AY:487:ARG:HE	1.44	0.80
35:BA:2777:G:H5''	35:BA:2778:A:H5'	1.62	0.80
38:BD:176:ARG:HD2	38:BD:182:LEU:HD11	1.62	0.80
57:BZ:166:SER:CB	57:BZ:168:GLU:HB3	2.12	0.80
1:AA:607:A:H2'	1:AA:608:A:H8	1.46	0.80
3:AC:131:ARG:HA	3:AC:134:ILE:HD12	1.63	0.80
35:BA:1496:A:H2'	35:BA:1498:C:H41	1.46	0.80
35:BA:2052:G:OP1	39:BE:141:ILE:HG12	1.82	0.80
35:BA:2303:G:H1	35:BA:2313:C:H42	1.29	0.80
35:BA:57:C:O2'	35:BA:58:G:H5'	1.79	0.80
37:BC:107:TRP:HZ3	37:BC:131:LEU:HD21	1.43	0.80
42:BH:91:GLY:HA3	42:BH:94:TYR:HD2	1.46	0.80
52:BU:36:ARG:CB	52:BU:36:ARG:HH11	1.94	0.80
1:AA:775:G:O2'	1:AA:776:G:H5'	1.81	0.80
1:AA:969:A:O2'	1:AA:970:C:H5'	1.82	0.80
5:AE:79:GLU:HB3	5:AE:92:LYS:HG3	1.62	0.80
17:AQ:92:ARG:HA	17:AQ:95:TYR:CD2	2.16	0.80
28:B3:6:VAL:HG12	28:B3:56:VAL:HA	1.64	0.80
28:B3:59:VAL:HG12	28:B3:60:GLU:N	1.96	0.80
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.63	0.80
38:BD:127:VAL:HA	38:BD:193:VAL:HG22	1.62	0.80
47:BP:122:PRO:HB3	47:BP:141:ALA:CB	2.12	0.80
1:AA:714:G:H2'	1:AA:715:A:C8	2.16	0.80
4:AD:60:GLU:HG2	4:AD:202:LEU:HD12	1.63	0.80
22:AV:17:C:H3'	22:AV:17(A):U:H5'	1.62	0.80
27:B2:36:ARG:HA	27:B2:39:ALA:HB3	1.63	0.80
34:B9:29:ASN:HD21	34:B9:32:HIS:CE1	1.98	0.80
35:BA:832:G:OP1	47:BP:40:SER:HB3	1.82	0.80
53:BV:15:GLU:HB3	53:BV:16:PRO:HD2	1.64	0.80
35:BA:143:G:H4'	55:BX:35:THR:HG21	1.63	0.80
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	1.81	0.80
3:AC:155:GLY:HA3	3:AC:196:LEU:HD13	1.64	0.80
7:AG:66:VAL:O	7:AG:69:VAL:HG12	1.81	0.80
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.47	0.80
16:AP:60:LEU:HD11	16:AP:79:VAL:CG1	2.12	0.80
24:AY:249:GLY:O	24:AY:250:GLU:HG2	1.82	0.80
24:AY:377:ASP:C	24:AY:377:ASP:OD2	2.19	0.80
35:BA:705:A:N1	35:BA:727:A:H1'	1.97	0.80
38:BD:143:HIS:HB2	38:BD:196:VAL:HG23	1.64	0.80
33:B8:25:MET:CG	47:BP:64:LYS:HB2	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:67:ARG:NH2	50:BS:100:ALA:HB3	1.97	0.80
53:BV:4:ILE:HD12	53:BV:39:LEU:O	1.81	0.80
56:BY:12:THR:HB	56:BY:75:ILE:CG2	2.10	0.80
1:AA:174:C:H2'	1:AA:175:C:C6	2.17	0.80
1:AA:613:C:H2'	1:AA:614:A:H8	1.46	0.80
3:AC:19:GLU:HG2	3:AC:54:ARG:NE	1.97	0.80
8:AH:87:SER:OG	8:AH:92:ARG:HA	1.81	0.80
10:AJ:8:LEU:HA	10:AJ:95:GLU:O	1.81	0.80
35:BA:1058:G:H2'	35:BA:1059:G:H5''	1.64	0.80
35:BA:201:C:O2'	35:BA:202:U:H5'	1.81	0.80
35:BA:811:U:O3'	35:BA:1251:C:H5'	1.81	0.80
37:BC:14:VAL:HG11	37:BC:221:SER:O	1.82	0.80
40:BF:28:ILE:HG22	40:BF:116:ASP:HB2	1.64	0.80
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.47	0.80
1:AA:759:A:H1'	12:AL:12:ARG:NH2	1.97	0.80
3:AC:155:GLY:CA	3:AC:196:LEU:HD13	2.11	0.80
9:AI:63:ILE:HG21	9:AI:77:ILE:HD11	1.62	0.80
15:AO:68:ARG:HG3	15:AO:72:ARG:HG3	1.61	0.80
22:AV:5:G:H2'	22:AV:6:G:C8	2.17	0.80
24:AY:155:LEU:HD12	24:AY:155:LEU:H	1.47	0.80
24:AY:76:GLN:HE21	24:AY:85:ASN:HD21	1.29	0.80
26:B1:50:ARG:HG2	26:B1:59:THR:CG2	2.12	0.80
32:B7:30:VAL:HG22	32:B7:33:ARG:NH2	1.97	0.80
35:BA:1628:G:H2'	35:BA:1629:U:C6	2.16	0.80
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.12	0.80
35:BA:239:U:H1'	35:BA:259:G:H22	1.47	0.80
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.82	0.80
39:BE:7:VAL:HG21	51:BT:1:MET:SD	2.22	0.80
40:BF:154:VAL:CG1	40:BF:193:VAL:HG23	2.11	0.80
40:BF:66:PRO:HB2	40:BF:70:THR:HG23	1.63	0.80
42:BH:151:ILE:N	42:BH:151:ILE:HD12	1.96	0.80
49:BR:63:ARG:HH11	49:BR:63:ARG:HB2	1.47	0.80
51:BT:65:LYS:HE3	51:BT:66:VAL:N	1.95	0.80
52:BU:69:CYS:O	52:BU:74:LEU:HD12	1.81	0.80
48:BQ:63:LYS:HG3	57:BZ:175:VAL:CG2	2.12	0.80
1:AA:576:G:OP2	1:AA:577:G:H5''	1.82	0.80
8:AH:119:LEU:HB3	8:AH:123:GLU:CB	2.11	0.80
21:AU:18:TYR:CD2	21:AU:24:ARG:HA	2.16	0.80
24:AY:135:THR:HG22	24:AY:136:PRO:HD2	1.60	0.80
24:AY:108:CYS:HB2	24:AY:136:PRO:HG2	1.64	0.80
24:AY:246:PHE:HA	24:AY:251:ILE:HG13	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:14:VAL:CG2	35:BA:188:G:H5'	2.12	0.80
26:B1:3:LYS:HG3	35:BA:1365:A:OP2	1.82	0.80
31:B6:19:ARG:HD3	35:BA:2400:G:H4'	1.64	0.80
31:B6:41:PRO:O	31:B6:45:LYS:HB3	1.82	0.80
35:BA:1625:C:O2'	35:BA:1626:G:H5'	1.82	0.80
35:BA:1661:G:H2'	35:BA:1662:C:H6	1.46	0.80
35:BA:1825:A:H2'	35:BA:1826:G:H8	1.47	0.80
35:BA:2459:A:H61	35:BA:2493:U:H3	1.29	0.80
35:BA:2628:C:C1'	35:BA:2781:A:H2'	2.12	0.80
35:BA:479:A:O2'	35:BA:481:G:H5'	1.81	0.80
35:BA:533:G:H2'	35:BA:534:U:C6	2.17	0.80
35:BA:916:G:O2'	35:BA:917:A:H5''	1.82	0.80
38:BD:248:SER:OG	38:BD:252:TRP:CD2	2.34	0.80
38:BD:182:LEU:N	38:BD:272:ALA:HB2	1.95	0.80
39:BE:9:VAL:CG1	39:BE:25:VAL:HB	2.12	0.80
48:BQ:3:MET:HB2	48:BQ:4:PRO:HD2	1.63	0.80
50:BS:42:ASP:C	50:BS:44:LYS:H	1.85	0.80
52:BU:74:LEU:HD13	52:BU:75:ASN:O	1.82	0.80
55:BX:18:TYR:O	55:BX:20:GLY:N	2.16	0.80
57:BZ:150:LEU:CG	57:BZ:171:ILE:HD11	2.04	0.80
1:AA:1481:U:H2'	1:AA:1482:G:H8	1.47	0.79
1:AA:275:G:H2'	1:AA:276:G:H8	1.46	0.79
8:AH:46:LYS:HE2	8:AH:64:LYS:HA	1.64	0.79
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.00	0.79
19:AS:16:LEU:N	19:AS:16:LEU:HD12	1.97	0.79
24:AY:342:ILE:CD1	24:AY:345:ALA:HB2	2.11	0.79
24:AY:462:VAL:CG1	24:AY:463:TYR:H	1.95	0.79
26:B1:11:ARG:HB3	26:B1:12:PRO:CD	2.06	0.79
33:B8:53:PRO:O	33:B8:57:ARG:HG3	1.82	0.79
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.11	0.79
35:BA:606:U:H4'	35:BA:658:C:H4'	1.64	0.79
40:BF:159:GLY:CA	40:BF:178:PRO:HD3	2.12	0.79
45:BN:21:LYS:HD3	45:BN:22:THR:H	1.47	0.79
1:AA:1452:C:H5'	1:AA:1456:G:C2	2.17	0.79
1:AA:838:G:H2'	1:AA:839:U:H5''	1.61	0.79
4:AD:26:CYS:HA	4:AD:31:CYS:CA	2.10	0.79
24:AY:303:ILE:HG13	24:AY:375:ILE:HD11	1.62	0.79
24:AY:404:LYS:O	24:AY:404:LYS:HD3	1.82	0.79
24:AY:440:ALA:HB2	24:AY:446:PHE:CZ	2.16	0.79
34:B9:26:ILE:HG22	34:B9:27:CYS:H	1.47	0.79
35:BA:1912:A:H5'	35:BA:1918:A:H61	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:49:ILE:HG22	37:BC:204:ALA:HB2	1.63	0.79
38:BD:172:TYR:CE1	38:BD:186:HIS:HA	2.18	0.79
38:BD:223:GLY:HA3	38:BD:231:HIS:CD2	2.17	0.79
1:AA:1423:G:H5"	46:BO:49:ARG:NH2	1.97	0.79
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.44	0.79
13:AM:49:THR:O	13:AM:53:VAL:HG23	1.81	0.79
15:AO:4:THR:HB	15:AO:7:GLU:HB3	0.90	0.79
1:AA:1223:C:P	19:AS:78:ARG:HH21	2.04	0.79
22:AV:50:U:O2	22:AV:64:G:N2	2.13	0.79
24:AY:281:PRO:O	24:AY:282:ARG:HD2	1.82	0.79
24:AY:449:VAL:CG2	24:AY:463:TYR:OH	2.30	0.79
32:B7:16:HIS:HA	32:B7:21:ARG:HH12	1.46	0.79
35:BA:1352:U:O2'	35:BA:1353:A:H5'	1.81	0.79
35:BA:1904:G:H1'	35:BA:1927:A:H61	1.46	0.79
35:BA:2361:A:H2'	35:BA:2362:G:H8	1.46	0.79
36:BB:31:C:H42	36:BB:51:G:H1	1.30	0.79
38:BD:43:ARG:HH11	38:BD:49:ILE:HD11	1.47	0.79
50:BS:30:ARG:HH22	50:BS:62:LYS:HB3	1.47	0.79
50:BS:56:LEU:O	50:BS:56:LEU:HD23	1.81	0.79
2:AB:115:LEU:CD1	2:AB:145:LEU:HD12	2.12	0.79
2:AB:18:GLY:N	2:AB:42:ILE:HG22	1.93	0.79
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.12	0.79
22:AV:25:C:H2'	22:AV:26:G:O4'	1.81	0.79
22:AV:69:C:O2'	22:AV:70:G:H5"	1.81	0.79
29:B4:9:LEU:HD13	29:B4:10:VAL:H	1.46	0.79
31:B6:9:LEU:HD22	31:B6:10:LEU:H	1.46	0.79
31:B6:36:LEU:HA	31:B6:49:HIS:O	1.82	0.79
35:BA:2102:U:H2'	35:BA:2103:C:O4'	1.83	0.79
35:BA:2137:C:H42	35:BA:2154:G:H22	1.28	0.79
35:BA:2772:C:O5'	35:BA:2772:C:H6	1.64	0.79
39:BE:174:ASP:HB3	39:BE:183:LEU:HD22	1.65	0.79
40:BF:159:GLY:HA2	40:BF:164:ARG:HH21	1.46	0.79
41:BG:64:THR:HG23	41:BG:65:GLY:H	1.47	0.79
48:BQ:18:LYS:HG2	48:BQ:19:GLY:H	1.45	0.79
1:AA:1406:U:O2	1:AA:1518:A:H1'	1.80	0.79
1:AA:1493:A:H3'	1:AA:1493:A:N3	1.97	0.79
1:AA:975:A:H5'	1:AA:975:A:H8	1.48	0.79
9:AI:46:ALA:HB2	9:AI:74:ILE:HG22	1.63	0.79
24:AY:146:ARG:NH1	24:AY:146:ARG:HG3	1.92	0.79
24:AY:138:LEU:HB3	24:AY:255:PHE:CE1	2.17	0.79
24:AY:255:PHE:CE1	24:AY:275:TRP:CZ3	2.68	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:17:GLN:O	25:B0:19:LYS:HG3	1.82	0.79
25:B0:36:ILE:HD11	35:BA:2355:C:O4'	1.83	0.79
35:BA:1010:A:H1'	35:BA:1153:C:H1'	1.64	0.79
35:BA:1170:G:H22	35:BA:1179:C:N4	1.79	0.79
35:BA:1498:C:H2'	35:BA:1499:C:C5'	2.13	0.79
35:BA:193:U:O2'	35:BA:194:G:H5'	1.82	0.79
35:BA:2801(A):A:H5'	35:BA:2802:G:H8	1.46	0.79
35:BA:654(J):A:H8	35:BA:654(L):G:H1'	1.47	0.79
37:BC:6:ARG:NH1	37:BC:10:LEU:HD21	1.96	0.79
40:BF:163:VAL:O	40:BF:166:ALA:HB3	1.82	0.79
40:BF:167:ALA:CB	40:BF:173:VAL:HG11	2.05	0.79
25:B0:10:THR:HG22	25:B0:12:ASN:H	1.46	0.79
27:B2:41:ILE:HG13	27:B2:42:GLY:N	1.96	0.79
35:BA:1061:U:H4'	35:BA:1070:A:O4'	1.82	0.79
35:BA:1203:G:H3'	35:BA:1204:A:C5'	2.09	0.79
35:BA:1919:A:H3'	35:BA:1920:C:C5'	2.13	0.79
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.48	0.79
37:BC:40:THR:HG22	37:BC:41:VAL:H	1.47	0.79
24:AY:336:THR:O	24:AY:337:ALA:CB	2.31	0.79
24:AY:315:VAL:HG21	24:AY:346:LEU:CD1	2.12	0.79
24:AY:473:TRP:HH2	24:AY:500:ASN:CB	1.80	0.79
1:AA:702:A:N6	35:BA:1846:G:H5''	1.97	0.79
35:BA:1911:U:C2'	35:BA:1918:A:N1	2.43	0.79
32:B7:38:GLY:O	35:BA:458:G:H2'	1.82	0.79
37:BC:40:THR:HA	37:BC:177:LYS:HA	1.63	0.79
38:BD:24:ILE:CD1	38:BD:91:ARG:HB3	2.08	0.79
39:BE:51:PHE:HD1	39:BE:52:LEU:H	1.29	0.79
41:BG:133:LEU:HG	41:BG:157:ILE:HB	1.64	0.79
45:BN:17:ASP:OD1	45:BN:56:ASN:HB3	1.82	0.79
47:BP:146:VAL:HG22	47:BP:147:LEU:H	1.47	0.79
56:BY:101:LYS:HG2	56:BY:102:CYS:N	1.97	0.79
1:AA:1471:G:H2'	1:AA:1472:U:H6	1.46	0.79
2:AB:115:LEU:HB2	2:AB:145:LEU:CD1	2.13	0.79
7:AG:118:VAL:HG23	7:AG:119:ARG:N	1.96	0.79
8:AH:119:LEU:HB3	8:AH:123:GLU:HB2	1.65	0.79
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	1.63	0.79
14:AN:13:THR:N	14:AN:14:PRO:HD2	1.97	0.79
22:AV:5:G:H1	22:AV:68:C:H42	1.29	0.79
24:AY:453:LEU:HB3	24:AY:459:VAL:CG2	2.13	0.79
27:B2:25:VAL:CG1	27:B2:29:LYS:HE2	2.12	0.79
35:BA:1772:G:H21	35:BA:1774:C:H5''	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2605:U:H2'	35:BA:2606:C:H6	1.41	0.79
38:BD:94:LEU:HD22	38:BD:95:LEU:H	1.47	0.79
40:BF:154:VAL:HG11	40:BF:193:VAL:HG23	1.64	0.79
50:BS:83:LYS:HG2	50:BS:105:ALA:HB3	1.65	0.79
52:BU:25:TRP:O	52:BU:28:ARG:HB2	1.82	0.79
54:BW:75:TYR:O	54:BW:103:ILE:HG22	1.82	0.79
1:AA:1053:G:H4'	1:AA:1054:C:C5'	2.12	0.79
1:AA:1126:U:H1'	1:AA:1280:A:C6	2.17	0.79
1:AA:436:C:H5''	4:AD:156:GLU:OE2	1.82	0.79
1:AA:834:C:H2'	1:AA:835:U:H6	1.46	0.79
2:AB:172:ILE:H	2:AB:172:ILE:CD1	1.95	0.79
2:AB:88:ALA:O	2:AB:90:MET:HG2	1.82	0.79
9:AI:8:GLY:HA2	9:AI:79:LEU:CD1	2.09	0.79
10:AJ:13:HIS:HB3	10:AJ:68:HIS:CD2	2.18	0.79
12:AL:41:ARG:CZ	12:AL:41:ARG:HB2	2.13	0.79
24:AY:186:TYR:CZ	24:AY:241:PHE:HB3	2.17	0.79
35:BA:1434:A:H2'	35:BA:1435:G:H8	1.47	0.79
35:BA:210:C:H2'	35:BA:211:A:H8	1.45	0.79
25:B0:14:ARG:HD2	35:BA:2279:G:O6	1.83	0.79
35:BA:2498:C:C2'	35:BA:2499:C:H5''	2.13	0.79
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.17	0.79
35:BA:497:A:H2'	35:BA:498:G:C8	2.18	0.79
35:BA:839:U:H2'	35:BA:840:C:C6	2.16	0.79
37:BC:181:PRO:HB2	37:BC:182:PRO:HD2	1.65	0.79
38:BD:31:LYS:HG2	38:BD:33:LEU:HD23	1.65	0.79
57:BZ:57:ILE:H	57:BZ:57:ILE:HD12	1.48	0.79
1:AA:836:G:O2'	1:AA:837:G:H5'	1.82	0.79
2:AB:101:MET:HB2	2:AB:102:LEU:HD12	1.65	0.79
4:AD:152:SER:HB3	4:AD:155:LEU:HD12	1.63	0.79
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	1.97	0.79
24:AY:164:ILE:HG12	24:AY:252:THR:HG23	1.65	0.79
35:BA:1376:C:O2'	35:BA:1377:G:H5'	1.82	0.79
35:BA:1571:A:H2'	35:BA:1572:A:H8	1.48	0.79
35:BA:1773:A:H2'	35:BA:1774:C:H5'	1.64	0.79
35:BA:2066:C:H2'	35:BA:2067:G:C8	2.17	0.79
35:BA:2437:U:H2'	35:BA:2438:U:C6	2.18	0.79
35:BA:818:G:H8	35:BA:818:G:O5'	1.64	0.79
38:BD:73:VAL:C	38:BD:75:ILE:HD12	2.02	0.79
40:BF:110:LEU:HA	40:BF:183:VAL:CG1	2.13	0.79
41:BG:115:ARG:HH22	41:BG:136:ARG:HB2	1.48	0.79
42:BH:132:ARG:O	42:BH:133:VAL:HG23	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:98:LEU:HD11	42:BH:100:GLY:O	1.83	0.79
35:BA:1190:G:H5'	47:BP:35:HIS:N	1.97	0.79
1:AA:1494:G:C6	1:AA:1495:U:O4	2.36	0.78
1:AA:67:C:O2	1:AA:171:A:H2	1.64	0.78
1:AA:777:A:H2'	1:AA:778:G:C8	2.18	0.78
2:AB:43:ASP:OD2	2:AB:46:LYS:HB2	1.82	0.78
17:AQ:46:ASP:OD2	17:AQ:51:TYR:HD2	1.65	0.78
24:AY:183:TYR:CE2	24:AY:189:GLU:CA	2.65	0.78
24:AY:70:ILE:HG12	24:AY:95:PHE:CZ	2.18	0.78
32:B7:7:PRO:HA	35:BA:686:G:H8	1.46	0.78
35:BA:1028:A:H2'	35:BA:1029:A:C8	2.18	0.78
35:BA:1414:G:H1	35:BA:1588:C:N4	1.80	0.78
35:BA:1843:C:H4'	38:BD:256:GLY:O	1.83	0.78
41:BG:76:SER:OG	41:BG:83:ARG:HB3	1.81	0.78
47:BP:16:ARG:HB2	47:BP:16:ARG:NH1	1.97	0.78
1:AA:1442(A):G:N2	51:BT:121:ILE:HG12	1.97	0.78
52:BU:31:SER:HB3	52:BU:34:LYS:CB	2.06	0.78
54:BW:70:TYR:O	54:BW:107:LEU:HB3	1.83	0.78
56:BY:8:LYS:H	56:BY:8:LYS:HD2	1.48	0.78
1:AA:1195:C:H2'	1:AA:1197:G:O4'	1.83	0.78
1:AA:618:C:H42	1:AA:623:C:H42	1.27	0.78
1:AA:877:C:H5''	8:AH:88:LYS:HD3	1.65	0.78
2:AB:180:LEU:O	2:AB:182:ILE:HG13	1.83	0.78
20:AT:83:ARG:O	20:AT:87:LYS:HB2	1.84	0.78
26:B1:46:LEU:HD13	26:B1:62:VAL:C	2.03	0.78
35:BA:2356:C:O2'	35:BA:2357:U:H5'	1.83	0.78
35:BA:2394:C:H5''	35:BA:2395:C:OP2	1.84	0.78
53:BV:49:THR:HB	53:BV:50:PRO:HD2	1.65	0.78
57:BZ:18:LEU:O	57:BZ:21:ALA:HB3	1.83	0.78
22:AV:59:A:C2'	22:AV:60:U:H5'	2.12	0.78
35:BA:1778:U:O4	35:BA:1784:A:H1'	1.83	0.78
35:BA:1911:U:H5''	35:BA:1912:A:OP2	1.82	0.78
35:BA:271(X):G:O3'	35:BA:272(D):G:H4'	1.83	0.78
35:BA:672:C:H2'	35:BA:673:C:H5''	1.62	0.78
35:BA:83:G:N2	35:BA:102:G:H2'	1.98	0.78
45:BN:13:TRP:O	45:BN:135:PRO:HD2	1.82	0.78
48:BQ:135:ASP:H	48:BQ:137:TYR:HD2	1.30	0.78
35:BA:2870:C:H5''	49:BR:65:LEU:HD21	1.66	0.78
51:BT:20:PRO:HD2	51:BT:85:LYS:CB	2.10	0.78
52:BU:19:LYS:O	52:BU:21:ALA:N	2.15	0.78
1:AA:1489:G:H2'	1:AA:1490:C:H6	1.45	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:175:SER:OG	4:AD:184:LYS:HB2	1.83	0.78
11:AK:28:THR:O	11:AK:44:SER:HB2	1.84	0.78
24:AY:106:VAL:HG22	24:AY:107:ASP:N	1.98	0.78
24:AY:374:GLN:HG2	24:AY:529:HIS:O	1.83	0.78
35:BA:2101:G:H2'	35:BA:2102:U:H5''	1.65	0.78
35:BA:997:G:O2'	35:BA:998:C:H5'	1.83	0.78
39:BE:87:GLU:O	39:BE:89:ASP:N	2.16	0.78
46:BO:23:ARG:HB3	46:BO:40:VAL:HG23	1.66	0.78
53:BV:75:PHE:HA	53:BV:81:TYR:O	1.83	0.78
35:BA:1598:C:H5'	55:BX:36:LYS:CD	2.13	0.78
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.46	0.78
1:AA:947:G:H8	1:AA:947:G:O5'	1.67	0.78
2:AB:127:ILE:CA	2:AB:135:GLN:HE22	1.96	0.78
15:AO:4:THR:O	15:AO:8:LYS:N	2.17	0.78
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	1.97	0.78
22:AV:1:C:O2'	22:AV:2:G:H5'	1.83	0.78
35:BA:1655:A:O3'	39:BE:115:GLY:HA3	1.82	0.78
35:BA:601:C:H4'	40:BF:108:LYS:HZ1	1.48	0.78
42:BH:103:LEU:HG	42:BH:105:LEU:HD13	1.64	0.78
57:BZ:29:TYR:HB3	57:BZ:34:ASN:HA	1.65	0.78
1:AA:735:C:H2'	1:AA:736:C:C6	2.17	0.78
16:AP:45:THR:HG22	16:AP:47:ASP:HB3	1.64	0.78
35:BA:118:A:H5'	35:BA:119:A:C8	2.19	0.78
35:BA:1839:G:H1'	35:BA:1927:A:OP1	1.83	0.78
35:BA:1906:G:H2'	35:BA:1907:G:O4'	1.84	0.78
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.18	0.78
35:BA:2070:G:H2'	35:BA:2071:A:H8	1.46	0.78
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.18	0.78
40:BF:158:THR:HA	40:BF:198:ALA:HB2	1.66	0.78
45:BN:96:GLU:HG2	45:BN:97:ARG:N	1.99	0.78
47:BP:47:ASP:OD2	47:BP:49:ARG:HB2	1.83	0.78
33:B8:27:THR:CG2	47:BP:62:LEU:HD22	2.04	0.78
52:BU:92:ARG:HD2	53:BV:11:GLN:CG	2.14	0.78
53:BV:96:ILE:HD13	53:BV:96:ILE:N	1.95	0.78
2:AB:12:GLU:O	2:AB:14:GLY:N	2.17	0.78
2:AB:82:ARG:O	2:AB:86:GLU:HG3	1.84	0.78
20:AT:58:LYS:O	20:AT:61:SER:HB3	1.84	0.78
22:AV:62:C:H2'	22:AV:63:G:H5''	1.62	0.78
24:AY:249:GLY:O	24:AY:250:GLU:CG	2.32	0.78
31:B6:18:ARG:HG2	31:B6:18:ARG:HH11	1.47	0.78
35:BA:1498:C:H2'	35:BA:1499:C:H5'	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1895:C:H5'	35:BA:1895:C:H6	1.48	0.78
35:BA:2431:U:C6	35:BA:2433:A:OP2	2.37	0.78
35:BA:2606:C:H2'	35:BA:2607:G:H8	1.48	0.78
35:BA:575:A:H2'	35:BA:576:U:C6	2.18	0.78
35:BA:613:G:H5'	35:BA:613:G:C8	2.16	0.78
35:BA:703:U:H3	35:BA:728:G:H1	1.30	0.78
38:BD:229:VAL:HG13	38:BD:230:ASP:H	1.47	0.78
42:BH:154:PRO:HB3	42:BH:161:GLY:HA3	1.66	0.78
35:BA:910:A:C2	48:BQ:13:GLN:NE2	2.52	0.78
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.46	0.78
1:AA:894:G:H2'	1:AA:895:G:H5'	1.64	0.78
2:AB:17:PHE:HD1	2:AB:17:PHE:O	1.67	0.78
3:AC:139:GLN:HE21	3:AC:143:GLU:CD	1.87	0.78
4:AD:88:VAL:O	4:AD:92:VAL:HG23	1.83	0.78
1:AA:1117:G:O2'	9:AI:106:ALA:HB2	1.83	0.78
9:AI:48:GLU:N	9:AI:49:PRO:HD2	1.99	0.78
20:AT:18:GLN:O	20:AT:22:ARG:HG3	1.83	0.78
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.66	0.78
35:BA:1582:C:O2'	35:BA:1586:A:C8	2.36	0.78
35:BA:1665:A:C2'	35:BA:1666:G:H5''	2.12	0.78
35:BA:1922:G:HO2'	35:BA:1923:U:H5'	1.46	0.78
35:BA:2639:A:H1'	35:BA:2778:A:C2	2.18	0.78
36:BB:27:C:H5'	36:BB:28:C:OP2	1.84	0.78
37:BC:6:ARG:HH22	37:BC:10:LEU:HD23	1.47	0.78
40:BF:188:ARG:HA	47:BP:7:ARG:CD	2.14	0.78
45:BN:58:ASP:C	45:BN:60:ILE:H	1.88	0.78
48:BQ:98:LYS:O	48:BQ:101:ARG:HB2	1.83	0.78
50:BS:30:ARG:HD3	50:BS:97:ARG:HG2	1.63	0.78
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.19	0.78
1:AA:1019:C:O2'	1:AA:1020:U:H5'	1.84	0.78
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.48	0.78
1:AA:681:C:H4'	38:BD:174:ILE:HD12	1.66	0.78
1:AA:773:G:H5''	38:BD:203:ASN:HD22	1.47	0.78
24:AY:171:TRP:HB3	24:AY:172:PRO:HD2	1.66	0.78
35:BA:1639:U:H4'	35:BA:2699:C:C4'	2.14	0.78
36:BB:57:A:C2	36:BB:58:A:C4	2.72	0.78
39:BE:28:ALA:HB2	39:BE:182:LEU:HD22	1.66	0.78
54:BW:4:LYS:HD3	54:BW:6:ILE:HD11	1.66	0.78
57:BZ:35:ARG:HA	57:BZ:35:ARG:CZ	2.13	0.78
1:AA:525:C:H2'	1:AA:526:C:H6	1.49	0.78
1:AA:738:C:H2'	1:AA:739:C:C6	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:86:VAL:O	3:AC:90:GLU:HG3	1.83	0.78
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.83	0.78
6:AF:5:GLU:HG3	6:AF:93:SER:OG	1.83	0.78
7:AG:140:ASP:HA	7:AG:143:ARG:HD2	1.65	0.78
11:AK:13:GLN:HB3	11:AK:75:TYR:O	1.84	0.78
22:AV:27:U:H2'	22:AV:28:C:C5'	2.14	0.78
24:AY:12:LYS:CG	24:AY:82:CYS:HA	2.14	0.78
27:B2:19:VAL:HG12	27:B2:23:LYS:HE3	1.65	0.78
35:BA:1791:A:H4'	38:BD:206:LEU:CD1	2.14	0.78
35:BA:692:C:H2'	35:BA:693:C:H6	1.50	0.78
38:BD:213:ARG:HH12	38:BD:219:PRO:CD	1.95	0.78
40:BF:162:LEU:HD12	40:BF:162:LEU:H	1.49	0.78
40:BF:125:LEU:HD12	40:BF:196:LEU:CD2	2.14	0.78
42:BH:38:SER:OG	42:BH:40:GLU:HB2	1.84	0.78
52:BU:3:ARG:HH12	52:BU:5:LYS:HD2	1.48	0.78
56:BY:73:ARG:HE	56:BY:73:ARG:HA	1.49	0.78
1:AA:1001(A):G:H8	1:AA:1002:G:C8	2.01	0.77
1:AA:1407:C:H2'	1:AA:1408:A:C5'	2.14	0.77
1:AA:1494:G:C6	1:AA:1495:U:C4	2.71	0.77
1:AA:258:G:H2'	1:AA:259:G:H8	1.49	0.77
1:AA:332:G:H2'	1:AA:333:G:H8	1.49	0.77
1:AA:632:A:H3'	1:AA:633:G:H8	1.48	0.77
1:AA:894:G:C2'	1:AA:895:G:H5'	2.15	0.77
4:AD:11:LEU:HB3	4:AD:66:ARG:NH1	1.98	0.77
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.66	0.77
20:AT:59:ALA:O	20:AT:63:ILE:HG13	1.83	0.77
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.12	0.77
40:BF:165:ARG:HA	40:BF:168:ARG:HH21	1.50	0.77
40:BF:8:GLN:HG3	40:BF:9:ILE:H	1.49	0.77
57:BZ:100:VAL:HG11	57:BZ:137:ILE:CG1	2.14	0.77
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.99	0.77
1:AA:436:C:H5''	4:AD:156:GLU:CD	2.04	0.77
9:AI:104:ARG:HG3	9:AI:104:ARG:HH11	1.45	0.77
9:AI:4:TYR:HD2	9:AI:85:LEU:HA	1.49	0.77
10:AJ:4:ILE:HG21	10:AJ:74:ILE:HD11	1.65	0.77
14:AN:6:LEU:HB3	14:AN:23:ARG:HH22	1.49	0.77
24:AY:119:VAL:HG22	24:AY:124:ARG:CG	2.14	0.77
24:AY:170:THR:HA	24:AY:183:TYR:O	1.84	0.77
24:AY:300:VAL:HG13	24:AY:316:ALA:O	1.84	0.77
24:AY:420:SER:O	24:AY:422:GLU:N	2.15	0.77
25:B0:51:VAL:HG22	25:B0:81:VAL:CG2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:23:VAL:HG22	33:B8:47:LYS:O	1.84	0.77
35:BA:1639:U:H2'	35:BA:1640:C:H5''	1.66	0.77
35:BA:2720:U:H3'	35:BA:2721:A:H8	1.49	0.77
35:BA:27:G:N2	35:BA:512:G:H2'	1.98	0.77
35:BA:764:A:OP1	38:BD:208:LYS:HE3	1.83	0.77
35:BA:2223:G:C5'	38:BD:269:PHE:HZ	1.98	0.77
51:BT:96:ARG:HH11	51:BT:96:ARG:HB2	1.49	0.77
52:BU:107:ALA:O	52:BU:110:VAL:HB	1.85	0.77
2:AB:122:PHE:HA	2:AB:139:LYS:NZ	1.99	0.77
5:AE:129:ILE:H	5:AE:129:ILE:HD12	1.47	0.77
8:AH:14:ARG:NE	8:AH:83:ILE:HG23	2.00	0.77
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.46	0.77
11:AK:124:LYS:NZ	11:AK:125:PHE:HE1	1.81	0.77
35:BA:1258:C:C1'	40:BF:84:VAL:HG21	2.14	0.77
35:BA:2330:G:H2'	35:BA:2331:G:O4'	1.84	0.77
37:BC:42:GLU:HG2	37:BC:44:HIS:CE1	2.19	0.77
38:BD:9:TYR:OH	38:BD:13:ARG:CZ	2.33	0.77
39:BE:4:ILE:HG21	39:BE:96:PHE:HE2	1.48	0.77
40:BF:156:LEU:HD23	40:BF:167:ALA:HB3	1.66	0.77
42:BH:43:VAL:CG1	42:BH:52:VAL:HG23	2.14	0.77
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.64	0.77
1:AA:32:A:OP1	1:AA:398:C:H1'	1.84	0.77
12:AL:41:ARG:NH1	12:AL:41:ARG:CB	2.47	0.77
20:AT:36:LEU:HD13	20:AT:36:LEU:O	1.83	0.77
24:AY:296:PHE:CB	24:AY:331:LEU:HD11	2.15	0.77
25:B0:37:LEU:CD2	25:B0:60:PHE:HA	2.13	0.77
27:B2:63:VAL:O	27:B2:67:LYS:HG3	1.84	0.77
31:B6:32:ASN:CG	31:B6:33:LYS:H	1.88	0.77
35:BA:2007:C:H4'	35:BA:2824:C:O2'	1.83	0.77
35:BA:572:A:H2'	35:BA:573:G:C1'	2.14	0.77
35:BA:753:C:H2'	35:BA:754:C:H6	1.48	0.77
40:BF:36:VAL:HG22	40:BF:101:LEU:HD21	1.66	0.77
45:BN:90:MET:CE	45:BN:94:HIS:HB2	2.15	0.77
48:BQ:36:ALA:HB2	48:BQ:103:MET:CE	2.14	0.77
53:BV:5:VAL:HG21	53:BV:35:LEU:HB3	1.67	0.77
1:AA:1166:G:H21	1:AA:1169:A:H3'	1.49	0.77
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.85	0.77
3:AC:153:VAL:HG23	3:AC:166:GLU:O	1.83	0.77
6:AF:4:TYR:CD1	6:AF:92:LYS:HG3	2.19	0.77
10:AJ:29:ARG:O	10:AJ:29:ARG:HG2	1.84	0.77
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:18:PHE:CE1	15:AO:21:ASP:HB3	2.19	0.77
24:AY:170:THR:HB	24:AY:182:VAL:HG12	1.64	0.77
27:B2:35:LEU:HD11	27:B2:50:ILE:CG1	2.13	0.77
35:BA:1018:C:O2'	35:BA:1019:U:H5'	1.84	0.77
35:BA:1491:G:H2'	35:BA:1492:G:H8	1.49	0.77
35:BA:2012:G:H5''	54:BW:96:ILE:HD11	1.66	0.77
35:BA:2235:G:O2'	35:BA:2236:C:H5'	1.84	0.77
35:BA:2689:U:C5'	35:BA:2690:C:H5'	2.12	0.77
38:BD:72:LYS:HD3	38:BD:97:TYR:CE2	2.19	0.77
41:BG:60:LEU:HD22	41:BG:63:ILE:HD11	1.67	0.77
45:BN:34:LEU:HD13	45:BN:52:VAL:HG23	1.67	0.77
47:BP:101:VAL:HG23	47:BP:102:ARG:N	2.00	0.77
48:BQ:60:ARG:HH11	48:BQ:60:ARG:CB	1.97	0.77
1:AA:306:G:O2'	1:AA:307:C:H5'	1.85	0.77
1:AA:320:C:H2'	1:AA:321:A:C8	2.20	0.77
1:AA:438:G:H5'	4:AD:123:HIS:ND1	2.00	0.77
6:AF:72:VAL:CG1	6:AF:73:ASN:H	1.96	0.77
12:AL:89:ARG:NH1	12:AL:91:LYS:HA	1.99	0.77
28:B3:8:LEU:HD22	28:B3:32:GLN:N	1.99	0.77
35:BA:1170:G:N2	35:BA:1179:C:H42	1.82	0.77
35:BA:1825:A:H2'	35:BA:1826:G:C8	2.20	0.77
35:BA:1947:C:H2'	35:BA:1948:G:H5''	0.86	0.77
35:BA:2014:A:C2'	35:BA:2015:A:N7	2.43	0.77
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.49	0.77
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.50	0.77
35:BA:2690:C:OP1	49:BR:17:ARG:NH2	2.18	0.77
45:BN:14:VAL:HG11	45:BN:137:LYS:HG3	1.65	0.77
47:BP:58:THR:O	47:BP:61:ARG:NE	2.16	0.77
1:AA:160:A:H1'	1:AA:344:A:C5	2.20	0.77
1:AA:265:G:H2'	1:AA:267:C:H5	1.50	0.77
2:AB:68:ILE:H	2:AB:90:MET:HE3	1.50	0.77
4:AD:99:SER:O	4:AD:139:ARG:HA	1.83	0.77
6:AF:98:LEU:HD12	6:AF:98:LEU:N	1.97	0.77
1:AA:1342:C:H5''	9:AI:125:TYR:HB3	1.66	0.77
13:AM:2:ALA:N	13:AM:9:ILE:CG2	2.48	0.77
14:AN:33:VAL:HG12	14:AN:39:LEU:O	1.85	0.77
20:AT:78:ALA:HA	20:AT:81:LYS:CD	2.14	0.77
24:AY:106:VAL:HG22	24:AY:107:ASP:H	1.50	0.77
24:AY:360:TYR:CB	24:AY:361:PRO:HD2	2.15	0.77
24:AY:513:LEU:HB3	24:AY:517:ARG:NE	1.99	0.77
26:B1:48:LYS:HE3	26:B1:59:THR:HB	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B4:10:VAL:CG2	29:B4:11:PRO:HD2	2.15	0.77
29:B4:25:TYR:O	29:B4:26:SER:OG	2.03	0.77
35:BA:1468:C:H2'	35:BA:1469:A:C8	2.20	0.77
35:BA:1578:U:H2'	35:BA:1579:A:C5'	2.15	0.77
35:BA:2295:C:H2'	35:BA:2296:U:C5	2.20	0.77
1:AA:681:C:C5'	38:BD:174:ILE:HD12	2.15	0.77
38:BD:33:LEU:HD22	38:BD:102:LYS:HD3	1.67	0.77
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.49	0.77
47:BP:6:LEU:HG	47:BP:9:ASN:HB2	1.67	0.77
2:AB:162:ILE:O	2:AB:185:ILE:HD13	1.84	0.77
2:AB:204:ASN:C	2:AB:204:ASN:HD22	1.89	0.77
7:AG:126:ASP:HB2	7:AG:132:GLY:HA2	1.67	0.77
1:AA:230:G:OP1	16:AP:33:ILE:HD11	1.84	0.77
17:AQ:95:TYR:HD1	17:AQ:98:LEU:HD12	1.48	0.77
18:AR:63:GLN:O	18:AR:66:LEU:HB3	1.84	0.77
24:AY:197:LYS:HB2	24:AY:202:GLN:HG3	1.65	0.77
24:AY:369:ASN:HB2	24:AY:373:ILE:HG13	1.66	0.77
24:AY:443:VAL:CG2	24:AY:444:LEU:H	1.89	0.77
29:B4:14:ILE:HG13	29:B4:31:ILE:CB	2.15	0.77
33:B8:13:ARG:CD	47:BP:61:ARG:HH11	1.97	0.77
35:BA:1882:C:H2'	35:BA:1883:G:H5'	1.67	0.77
35:BA:2483:C:N3	48:BQ:124:LYS:NZ	2.29	0.77
41:BG:11:TYR:CD1	41:BG:15:VAL:HB	2.20	0.77
41:BG:33:ARG:H	41:BG:162:THR:CB	1.97	0.77
53:BV:28:GLU:HB3	53:BV:29:PRO:HD2	1.65	0.77
48:BQ:141:GLN:NE2	57:BZ:72:ARG:HA	2.00	0.77
1:AA:597:G:H2'	1:AA:598:U:H5'	1.66	0.77
2:AB:103:THR:HA	2:AB:180:LEU:HD11	1.65	0.77
2:AB:236:TYR:H	2:AB:236:TYR:HD1	1.31	0.77
3:AC:47:LEU:HD23	3:AC:52:LEU:HD13	1.66	0.77
9:AI:48:GLU:O	9:AI:51:ARG:HB2	1.84	0.77
24:AY:16:PHE:HA	24:AY:106:VAL:HG23	1.67	0.77
24:AY:119:VAL:HG22	24:AY:124:ARG:HG2	1.67	0.77
35:BA:1919:A:C3'	35:BA:1920:C:C5'	2.63	0.77
35:BA:370:G:H3'	35:BA:423:A:C5	2.20	0.77
35:BA:655:A:C4'	35:BA:656:G:H5'	2.14	0.77
37:BC:175:VAL:HG13	37:BC:188:ASN:C	2.06	0.77
35:BA:1830:C:H5'	38:BD:15:PHE:CE2	2.20	0.77
39:BE:117:MET:CA	39:BE:122:PHE:H	1.96	0.77
55:BX:12:VAL:CG2	55:BX:13:LEU:N	2.45	0.77
57:BZ:99:TYR:HE1	57:BZ:125:LEU:HD12	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.67	0.77
1:AA:1151:A:C4	1:AA:1152:A:N7	2.53	0.77
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.14	0.77
1:AA:199:G:H2'	1:AA:200:G:C8	2.20	0.77
1:AA:624:C:H2'	1:AA:625:G:H8	1.50	0.77
1:AA:975:A:H5'	1:AA:975:A:C8	2.20	0.77
2:AB:42:ILE:HD12	2:AB:203:GLY:HA2	1.67	0.77
8:AH:36:LEU:HD11	8:AH:59:LEU:HD13	1.67	0.77
15:AO:39:LEU:CD1	15:AO:56:LEU:HD21	2.14	0.77
15:AO:65:ARG:HH11	15:AO:65:ARG:CG	1.97	0.77
24:AY:335:ARG:HH21	24:AY:335:ARG:CG	1.95	0.77
24:AY:442:GLY:O	24:AY:443:VAL:HG22	1.84	0.77
24:AY:76:GLN:HE21	24:AY:85:ASN:CG	1.88	0.77
35:BA:917:A:H2	36:BB:79:C:O2	1.68	0.77
36:BB:68:C:H2'	36:BB:69:G:C8	2.20	0.77
38:BD:10:THR:O	38:BD:11:PRO:O	2.01	0.77
35:BA:1070:A:N6	44:BK:7:UNK:O	2.18	0.77
35:BA:811:U:C6	47:BP:24:GLY:O	2.37	0.77
47:BP:50:ARG:HG3	47:BP:51:PHE:N	2.00	0.77
47:BP:70:GLN:HB3	47:BP:72:PRO:HD3	1.67	0.77
48:BQ:133:ARG:HG2	48:BQ:134:ARG:N	1.99	0.77
48:BQ:63:LYS:HZ3	57:BZ:175:VAL:HG11	1.47	0.77
1:AA:381:C:H2'	1:AA:382:A:C8	2.20	0.76
2:AB:185:ILE:HD12	2:AB:185:ILE:N	2.00	0.76
2:AB:67:THR:HA	2:AB:90:MET:HE1	1.65	0.76
1:AA:1346:A:H5'	9:AI:120:ARG:HH12	1.49	0.76
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.15	0.76
13:AM:91:ARG:O	13:AM:95:GLY:N	2.17	0.76
16:AP:4:ILE:HD12	16:AP:66:PRO:HG3	1.64	0.76
21:AU:6:ARG:O	21:AU:12:LYS:NZ	2.16	0.76
24:AY:184:HIS:CE1	24:AY:191:TYR:CZ	2.73	0.76
35:BA:2303:G:H1	35:BA:2313:C:N4	1.82	0.76
35:BA:2512:C:H4'	39:BE:122:PHE:CZ	2.20	0.76
49:BR:76:VAL:HG22	49:BR:80:PHE:CE2	2.20	0.76
54:BW:13:SER:O	54:BW:17:VAL:HG23	1.85	0.76
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.49	0.76
1:AA:937:A:H2'	1:AA:938:A:H8	1.48	0.76
1:AA:9:G:OP2	5:AE:121:LYS:NZ	2.17	0.76
12:AL:109:GLY:HA3	12:AL:121:GLY:HA3	1.66	0.76
12:AL:119:LYS:O	12:AL:120:TYR:HB2	1.85	0.76
16:AP:74:LEU:O	16:AP:79:VAL:HG23	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:44:MET:SD	19:AS:44:MET:N	2.57	0.76
19:AS:45:VAL:HA	19:AS:62:ILE:HG13	1.67	0.76
33:B8:37:SER:OG	33:B8:40:GLU:HG3	1.84	0.76
35:BA:2893:G:C5'	35:BA:2894:G:H5'	2.13	0.76
35:BA:628:G:H2'	35:BA:629:G:H5''	1.63	0.76
36:BB:95:C:O2'	36:BB:96:U:H5'	1.85	0.76
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.06	0.76
45:BN:58:ASP:O	45:BN:60:ILE:N	2.15	0.76
1:AA:598:U:H2'	1:AA:599:C:C6	2.19	0.76
4:AD:143:GLY:N	4:AD:185:PHE:O	2.18	0.76
9:AI:46:ALA:HB2	9:AI:74:ILE:CG2	2.15	0.76
24:AY:171:TRP:O	24:AY:182:VAL:HA	1.85	0.76
24:AY:300:VAL:HG11	24:AY:316:ALA:HB1	1.66	0.76
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.85	0.76
30:B5:49:CYS:SG	30:B5:50:GLY:N	2.59	0.76
35:BA:1120:G:H2'	35:BA:1121:C:O4'	1.85	0.76
35:BA:2589:A:O2'	35:BA:2590:A:H5'	1.85	0.76
35:BA:1791:A:H4'	38:BD:206:LEU:HD13	1.66	0.76
57:BZ:16:SER:O	57:BZ:20:ARG:HG2	1.84	0.76
1:AA:293:G:H5'	1:AA:610:G:C2	2.19	0.76
4:AD:11:LEU:HB3	4:AD:66:ARG:HH11	1.48	0.76
31:B6:14:THR:CG2	31:B6:50:ARG:HB2	2.14	0.76
35:BA:1161:C:H2'	35:BA:1162:G:C8	2.19	0.76
1:AA:702:A:H61	35:BA:1846:G:H5''	1.49	0.76
35:BA:1906:G:H1	35:BA:1924:C:H42	1.29	0.76
35:BA:2159:G:C2'	35:BA:2160:G:H5''	2.15	0.76
35:BA:2472:G:H5'	35:BA:2473:U:C5'	2.12	0.76
35:BA:2785:C:H2'	35:BA:2786:U:C6	2.20	0.76
35:BA:535:C:H2'	35:BA:536:A:C8	2.21	0.76
35:BA:6:A:H2'	35:BA:7:G:H8	1.50	0.76
37:BC:47:LEU:HD12	37:BC:47:LEU:H	1.46	0.76
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.84	0.76
51:BT:32:TYR:HB3	51:BT:81:PRO:HB3	1.66	0.76
52:BU:74:LEU:HD11	52:BU:79:PHE:HB2	1.68	0.76
35:BA:996:A:H4'	52:BU:92:ARG:HE	1.49	0.76
1:AA:1035:A:H2'	1:AA:1036:G:C8	2.20	0.76
2:AB:115:LEU:HB2	2:AB:145:LEU:HD12	1.67	0.76
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.67	0.76
1:AA:538:G:H5''	12:AL:114:LYS:HB2	1.67	0.76
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.21	0.76
19:AS:20:LEU:HA	19:AS:23:ASN:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:5:ASP:C	21:AU:7:ARG:H	1.88	0.76
24:AY:110:LEU:HD13	24:AY:268:MET:HE2	1.67	0.76
24:AY:300:VAL:CG1	24:AY:316:ALA:HB1	2.14	0.76
25:B0:38:VAL:HB	25:B0:59:LEU:HB2	1.66	0.76
35:BA:871:U:OP1	48:BQ:5:ARG:HG3	1.86	0.76
36:BB:106:G:H2'	36:BB:107:G:C8	2.20	0.76
37:BC:55:ASP:O	37:BC:56:GLN:HG3	1.84	0.76
38:BD:16:MET:CB	38:BD:207:GLY:HA3	2.15	0.76
40:BF:185:ASP:HA	40:BF:188:ARG:HG2	1.68	0.76
41:BG:133:LEU:CG	41:BG:157:ILE:HB	2.15	0.76
48:BQ:48:GLU:HA	48:BQ:51:ARG:HB3	1.68	0.76
51:BT:64:ARG:CZ	51:BT:103:ARG:HA	2.16	0.76
51:BT:108:ARG:HA	51:BT:111:ARG:NH1	2.00	0.76
51:BT:90:GLN:CG	51:BT:120:ARG:HH22	1.98	0.76
51:BT:78:LEU:HB3	51:BT:79:HIS:CE1	2.20	0.76
52:BU:92:ARG:HB2	53:BV:11:GLN:CD	2.05	0.76
1:AA:1502:A:C2	1:AA:1504:G:C2	2.73	0.76
1:AA:577:G:H22	1:AA:765:G:H1'	1.50	0.76
8:AH:9:MET:SD	8:AH:26:VAL:HG21	2.25	0.76
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.21	0.76
35:BA:1385:G:H4'	35:BA:1386:C:OP1	1.86	0.76
35:BA:1569:A:H2'	35:BA:1570:A:C8	2.21	0.76
35:BA:2125:G:N2	35:BA:2173:A:N6	2.34	0.76
35:BA:322:A:H5'	35:BA:340:A:H1'	1.65	0.76
35:BA:659:C:O2'	35:BA:660:G:H5'	1.86	0.76
36:BB:81:G:H2'	36:BB:82:G:H5'	1.65	0.76
38:BD:89:SER:OG	38:BD:159:ALA:HB2	1.86	0.76
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.53	0.76
36:BB:91:C:OP2	48:BQ:16:ARG:HD2	1.85	0.76
1:AA:1409:C:H2'	1:AA:1410:G:C8	2.18	0.76
8:AH:1:MET:N	8:AH:1:MET:HE2	2.01	0.76
19:AS:26:GLY:HA2	29:B4:47:GLN:O	1.86	0.76
21:AU:24:ARG:O	21:AU:24:ARG:HG2	1.84	0.76
24:AY:457:TYR:CB	24:AY:459:VAL:HG22	2.16	0.76
35:BA:1998:G:O2'	35:BA:1999:C:H5'	1.85	0.76
35:BA:2823:A:H2'	35:BA:2824:C:H6	1.50	0.76
35:BA:628:G:O2'	35:BA:629:G:H5''	1.85	0.76
41:BG:64:THR:HG23	41:BG:65:GLY:N	2.01	0.76
46:BO:14:THR:HG22	46:BO:95:GLY:N	2.00	0.76
49:BR:96:ARG:O	49:BR:114:VAL:HA	1.86	0.76
49:BR:7:GLY:O	49:BR:8:ARG:HB2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1004:A:H5''	1:AA:1025:U:O4	1.86	0.76
1:AA:1417:G:H2'	1:AA:1482:G:N2	2.01	0.76
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.50	0.76
12:AL:36:VAL:CG1	12:AL:82:VAL:HG22	2.15	0.76
18:AR:53:ARG:HG2	18:AR:58:LEU:O	1.85	0.76
24:AY:373:ILE:CG2	24:AY:374:GLN:H	1.96	0.76
31:B6:28:ARG:HA	31:B6:32:ASN:HD22	1.49	0.76
35:BA:1155:A:HO2'	35:BA:1156:A:H2'	1.50	0.76
35:BA:1614:A:N6	54:BW:87:PRO:HA	2.01	0.76
35:BA:1789:A:H2'	35:BA:1790:C:O4'	1.86	0.76
35:BA:588:U:H2'	35:BA:589:C:C6	2.21	0.76
38:BD:181:GLU:CA	38:BD:272:ALA:HB1	2.15	0.76
40:BF:195:ASP:HB3	40:BF:198:ALA:CB	2.15	0.76
42:BH:143:GLN:OE1	42:BH:143:GLN:HA	1.85	0.76
48:BQ:122:GLY:HA2	48:BQ:125:LEU:HD23	1.68	0.76
56:BY:12:THR:CB	56:BY:75:ILE:HG21	2.13	0.76
1:AA:1001:A:H2'	1:AA:1001:A:N3	2.01	0.76
1:AA:254:G:O2'	1:AA:255:G:H5'	1.85	0.76
1:AA:601:C:H2'	1:AA:602:A:H8	1.51	0.76
3:AC:142:MET:C	3:AC:144:SER:H	1.88	0.76
4:AD:61:LYS:HD2	4:AD:207:TYR:OH	1.85	0.76
24:AY:331:LEU:HB3	24:AY:379:PHE:CD2	2.20	0.76
25:B0:43:THR:O	25:B0:43:THR:HG23	1.85	0.76
31:B6:38:LYS:HG2	31:B6:48:VAL:HG12	1.67	0.76
35:BA:996:A:N6	35:BA:1159:U:H3	1.82	0.76
35:BA:1892:C:O2'	35:BA:1893:C:H5''	1.86	0.76
35:BA:1936:A:P	35:BA:1961:C:H41	2.09	0.76
35:BA:308:G:H1'	35:BA:501:A:OP1	1.85	0.76
39:BE:144:ARG:HG2	39:BE:145:LYS:H	1.50	0.76
52:BU:34:LYS:HA	52:BU:34:LYS:HE2	1.68	0.76
56:BY:46:LYS:H	56:BY:62:GLU:HG2	1.46	0.76
57:BZ:119:GLU:HG3	57:BZ:122:ARG:HD3	1.67	0.76
8:AH:82:HIS:HD2	8:AH:138:TRP:HE1	1.31	0.76
12:AL:36:VAL:HG12	12:AL:82:VAL:HG13	1.68	0.76
17:AQ:10:VAL:HB	17:AQ:54:GLY:H	1.51	0.76
19:AS:45:VAL:HA	19:AS:62:ILE:CG1	2.14	0.76
24:AY:421:GLU:O	24:AY:422:GLU:CG	2.32	0.76
32:B7:40:TRP:CE2	35:BA:459:U:H5'	2.20	0.76
35:BA:1321:A:H5'	35:BA:1322:A:OP2	1.85	0.76
35:BA:2375:G:H1'	35:BA:2379:G:N2	2.01	0.76
35:BA:750:A:H2'	35:BA:751:A:H5''	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	1.86	0.76
39:BE:170:LEU:HD12	39:BE:170:LEU:H	1.49	0.76
47:BP:58:THR:O	47:BP:58:THR:HG22	1.86	0.76
33:B8:13:ARG:HH11	47:BP:61:ARG:HD2	1.49	0.76
49:BR:28:LEU:HD23	49:BR:29:LEU:CD1	2.15	0.76
50:BS:89:ARG:O	50:BS:92:TYR:HB3	1.86	0.76
53:BV:4:ILE:HD12	53:BV:40:LEU:HB2	1.67	0.76
55:BX:57:LEU:CD2	55:BX:78:LYS:HE2	2.07	0.76
1:AA:1310:G:H2'	1:AA:1311:G:C8	2.20	0.75
1:AA:1383:C:H2'	1:AA:1384:C:H6	1.50	0.75
2:AB:102:LEU:O	2:AB:105:PHE:N	2.18	0.75
4:AD:123:HIS:HB2	4:AD:125:HIS:CD2	2.20	0.75
9:AI:69:GLY:O	9:AI:73:GLN:HG3	1.85	0.75
13:AM:15:VAL:O	13:AM:19:LEU:HD22	1.87	0.75
22:AV:53:G:H4'	22:AV:54:U:OP1	1.85	0.75
24:AY:155:LEU:HD23	24:AY:166:CYS:CB	2.15	0.75
24:AY:222:ASP:O	24:AY:226:GLN:CB	2.32	0.75
24:AY:255:PHE:CE1	24:AY:268:MET:SD	2.79	0.75
24:AY:373:ILE:O	24:AY:374:GLN:HG3	1.86	0.75
24:AY:78:PRO:HB3	24:AY:83:LEU:HB3	1.68	0.75
28:B3:4:LEU:HD12	28:B3:39:ASP:HA	1.68	0.75
35:BA:2027:G:O2'	35:BA:2028:U:H5'	1.84	0.75
35:BA:614(C):A:C2	40:BF:180:GLY:HA2	2.21	0.75
41:BG:99:MET:O	41:BG:103:LEU:HB2	1.85	0.75
56:BY:25:GLY:HA3	56:BY:40:GLU:HG2	1.67	0.75
56:BY:67:LEU:HD21	56:BY:71:LYS:HB2	1.68	0.75
57:BZ:35:ARG:HA	57:BZ:35:ARG:NE	2.00	0.75
1:AA:1199:U:H4'	10:AJ:54:PHE:CE2	2.21	0.75
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.21	0.75
1:AA:1241:G:OP1	7:AG:35:LYS:NZ	2.18	0.75
1:AA:1405:G:O2'	1:AA:1519:A:H5'	1.85	0.75
1:AA:23:C:O2'	1:AA:24:U:H5'	1.85	0.75
1:AA:673:G:C2'	1:AA:674:G:C8	2.65	0.75
3:AC:21:ARG:HG2	3:AC:58:GLU:HG2	1.67	0.75
13:AM:56:LEU:O	13:AM:60:VAL:HG23	1.86	0.75
16:AP:28:ARG:HG2	16:AP:29:ASP:OD1	1.85	0.75
35:BA:199:A:H61	35:BA:2433:A:H2'	1.48	0.75
35:BA:382:G:C2'	35:BA:383:U:H5'	2.15	0.75
42:BH:110:SER:O	42:BH:111:HIS:HB2	1.84	0.75
45:BN:91:LEU:HA	45:BN:95:PRO:CB	2.11	0.75
47:BP:64:LYS:O	47:BP:66:GLY:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:124:ASP:HB3	51:BT:125:ARG:HH12	1.49	0.75
51:BT:28:VAL:HG22	51:BT:47:GLY:N	2.00	0.75
1:AA:80:G:H3'	1:AA:81:U:C5'	2.15	0.75
1:AA:974:A:H8	14:AN:31:ARG:HD3	1.50	0.75
2:AB:98:LEU:HD12	2:AB:101:MET:HE3	1.67	0.75
12:AL:83:VAL:CG1	12:AL:107:ALA:HB2	2.16	0.75
15:AO:39:LEU:HD13	15:AO:56:LEU:HD21	1.68	0.75
24:AY:173:ILE:O	24:AY:180:LYS:HB2	1.87	0.75
28:B3:8:LEU:HD21	28:B3:31:LEU:HA	1.66	0.75
35:BA:1251:C:OP1	52:BU:10:ARG:HG3	1.87	0.75
35:BA:1846:G:N2	35:BA:1847:A:C2	2.54	0.75
35:BA:953:A:H61	35:BA:964:C:H42	1.33	0.75
38:BD:80:ALA:HB2	38:BD:96:HIS:CD2	2.21	0.75
51:BT:91:ARG:O	51:BT:117:ASP:HB3	1.85	0.75
1:AA:1491:G:C2'	1:AA:1492:A:C8	2.68	0.75
1:AA:575:G:H4'	1:AA:576:G:O5'	1.85	0.75
13:AM:90:LEU:N	13:AM:90:LEU:HD23	2.02	0.75
17:AQ:29:HIS:ND1	17:AQ:30:PRO:HD2	2.02	0.75
17:AQ:75:ARG:HH11	17:AQ:75:ARG:HG3	1.51	0.75
24:AY:113:ILE:HG23	24:AY:118:GLY:O	1.86	0.75
24:AY:424:ALA:O	24:AY:425:VAL:HG13	1.86	0.75
24:AY:76:GLN:NE2	24:AY:85:ASN:ND2	2.32	0.75
30:B5:25:LEU:HG	54:BW:19:LEU:HG	1.67	0.75
35:BA:2188:C:H2'	35:BA:2189:U:C2	2.21	0.75
35:BA:2864:G:H2'	35:BA:2865:U:H6	1.50	0.75
35:BA:327:G:N2	35:BA:328:U:H1'	2.01	0.75
35:BA:575:A:O2'	35:BA:576:U:H5'	1.87	0.75
35:BA:909:A:H2'	35:BA:912:C:N4	2.01	0.75
35:BA:914:C:C2'	35:BA:915:C:H5'	2.12	0.75
35:BA:925:C:C2'	35:BA:926:A:H5''	2.15	0.75
39:BE:22:PRO:O	39:BE:23:VAL:HG13	1.86	0.75
51:BT:22:PHE:HE2	51:BT:85:LYS:HZ1	1.33	0.75
53:BV:19:LYS:HG2	53:BV:94:LEU:HB2	1.68	0.75
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.86	0.75
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.51	0.75
24:AY:278:ALA:HB1	24:AY:279:PRO:HD2	1.68	0.75
27:B2:35:LEU:HD13	27:B2:36:ARG:N	2.01	0.75
28:B3:5:LYS:CA	28:B3:36:VAL:HG12	2.16	0.75
34:B9:10:ILE:HD12	34:B9:10:ILE:H	1.50	0.75
35:BA:1657:C:H5''	39:BE:133:LYS:O	1.87	0.75
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:606:U:H4'	35:BA:658:C:C4'	2.16	0.75
39:BE:101:ARG:HD2	39:BE:169:ASN:ND2	2.02	0.75
39:BE:8:LYS:HA	39:BE:26:ILE:HG23	1.66	0.75
40:BF:3:GLU:O	40:BF:24:LEU:HG	1.87	0.75
57:BZ:120:ILE:HG12	57:BZ:172:ALA:CA	2.16	0.75
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.86	0.75
1:AA:618:C:N4	1:AA:623:C:H42	1.83	0.75
3:AC:138:VAL:HG23	3:AC:149:ALA:HB3	1.68	0.75
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.14	0.75
17:AQ:5:VAL:O	17:AQ:6:LEU:HD23	1.86	0.75
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.68	0.75
32:B7:46:VAL:HG12	32:B7:47:ARG:N	2.01	0.75
33:B8:53:PRO:HA	33:B8:56:GLU:OE1	1.85	0.75
34:B9:2:LYS:HA	34:B9:33:LYS:O	1.85	0.75
35:BA:1445(A):C:H2'	35:BA:1446:C:C6	2.22	0.75
35:BA:1924:C:O2'	35:BA:1925:C:H6	1.70	0.75
35:BA:2396:G:C6	35:BA:2421:G:O6	2.39	0.75
37:BC:37:PHE:CZ	37:BC:217:THR:HG21	2.20	0.75
1:AA:681:C:C4'	38:BD:174:ILE:HD12	2.16	0.75
38:BD:186:HIS:CD2	38:BD:188:GLU:HB2	2.21	0.75
42:BH:88:LEU:CD2	42:BH:130:ARG:HG2	2.16	0.75
47:BP:80:TYR:CD1	47:BP:111:ARG:HB3	2.21	0.75
47:BP:6:LEU:H	47:BP:6:LEU:HD23	1.51	0.75
51:BT:125:ARG:O	51:BT:128:GLU:HG3	1.87	0.75
52:BU:115:ALA:C	52:BU:117:GLN:H	1.88	0.75
1:AA:981:U:H5	1:AA:982:U:H2'	1.52	0.75
11:AK:62:GLN:HG2	11:AK:63:LEU:HD23	1.68	0.75
11:AK:63:LEU:HA	11:AK:66:LEU:CD1	2.17	0.75
22:AV:52:G:N2	22:AV:62:C:N3	2.34	0.75
24:AY:183:TYR:CE2	24:AY:189:GLU:C	2.60	0.75
24:AY:99:THR:O	24:AY:102:THR:N	2.19	0.75
35:BA:1095:A:H2'	35:BA:1096:A:H8	1.52	0.75
35:BA:1602:U:H3'	35:BA:1603:A:H5'	1.67	0.75
35:BA:1707:G:H2'	35:BA:1708:C:H6	1.52	0.75
35:BA:2720:U:H5'	35:BA:2721:A:OP2	1.87	0.75
35:BA:787:U:H5''	35:BA:788:A:H5'	1.69	0.75
35:BA:903:C:O2'	35:BA:904:C:H5'	1.87	0.75
40:BF:168:ARG:HG3	40:BF:175:THR:HG21	1.68	0.75
42:BH:12:PRO:HD2	42:BH:15:VAL:HG21	1.68	0.75
42:BH:69:ARG:O	42:BH:73:ALA:HB2	1.86	0.75
45:BN:9:VAL:HG11	45:BN:39:ARG:HH22	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:6:THR:HG22	46:BO:7:TYR:N	2.01	0.75
1:AA:1003:G:N2	1:AA:1039:C:N3	2.35	0.75
1:AA:1500:A:O2'	1:AA:1501:C:H5'	1.86	0.75
1:AA:16:A:C2'	1:AA:17:U:H5'	2.17	0.75
3:AC:64:VAL:HG12	3:AC:65:ALA:H	1.50	0.75
5:AE:47:LYS:O	5:AE:48:ALA:HB2	1.86	0.75
8:AH:86:ILE:HD11	8:AH:136:GLU:HG2	1.69	0.75
1:AA:954:G:O2'	13:AM:120:LYS:HD2	1.86	0.75
15:AO:27:VAL:O	15:AO:30:ALA:HB3	1.86	0.75
15:AO:68:ARG:CG	15:AO:72:ARG:HE	1.99	0.75
16:AP:74:LEU:HB3	16:AP:79:VAL:HG21	1.69	0.75
19:AS:58:VAL:HG23	19:AS:60:VAL:HG12	1.69	0.75
20:AT:18:GLN:NE2	20:AT:22:ARG:HH12	1.78	0.75
24:AY:111:MET:HE1	24:AY:139:THR:HG21	1.66	0.75
28:B3:31:LEU:HD23	28:B3:32:GLN:H	1.52	0.75
35:BA:1135:C:N4	35:BA:1138:G:OP2	2.18	0.75
35:BA:1707:G:H2'	35:BA:1708:C:C6	2.21	0.75
35:BA:2570:G:H2'	35:BA:2571:C:C6	2.22	0.75
35:BA:870:A:H5''	48:BQ:6:ARG:HB2	1.69	0.75
38:BD:182:LEU:O	38:BD:271:ILE:CG1	2.34	0.75
39:BE:8:LYS:HD3	39:BE:191:PRO:O	1.85	0.75
50:BS:88:ASP:CG	50:BS:89:ARG:H	1.86	0.75
52:BU:9:VAL:O	52:BU:13:LYS:HE2	1.87	0.75
35:BA:445:C:H5''	52:BU:3:ARG:HB3	1.69	0.75
53:BV:2:PHE:O	53:BV:41:GLY:HA2	1.87	0.75
1:AA:1394:A:C8	1:AA:1501:C:O2'	2.40	0.75
1:AA:375:U:H2'	1:AA:376:G:C8	2.21	0.75
1:AA:978:A:O2'	1:AA:979:C:O4'	2.05	0.75
2:AB:134:GLU:O	2:AB:138:LEU:HG	1.87	0.75
5:AE:91:LEU:HB3	5:AE:118:ILE:HD11	1.69	0.75
7:AG:101:LEU:O	7:AG:105:VAL:HG23	1.87	0.75
1:AA:1231:G:H4'	9:AI:126:SER:OG	1.87	0.75
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.69	0.75
24:AY:395:PRO:HG2	24:AY:398:PHE:CE1	2.22	0.75
25:B0:27:GLU:HA	25:B0:67:VAL:O	1.86	0.75
35:BA:1789:A:H5''	38:BD:221:VAL:HA	1.67	0.75
35:BA:2147:G:H2'	35:BA:2148:G:C5'	2.17	0.75
35:BA:2807:G:H2'	35:BA:2808:U:H5''	1.67	0.75
37:BC:59:ARG:CZ	37:BC:142:ALA:HB2	2.17	0.75
38:BD:30:GLU:HG3	38:BD:83:GLU:OE1	1.87	0.75
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:131:GLY:CA	40:BF:138:GLU:HB3	2.16	0.75
35:BA:1007:C:H5''	45:BN:35:ARG:HH12	1.50	0.75
47:BP:113:LYS:CB	47:BP:129:ALA:HB3	2.16	0.75
47:BP:38:GLN:HG3	47:BP:39:LYS:N	2.00	0.75
2:AB:14:GLY:O	2:AB:15:VAL:HG22	1.86	0.74
4:AD:173:TRP:O	4:AD:186:LEU:HB2	1.87	0.74
5:AE:72:GLN:O	5:AE:73:ASN:HB3	1.85	0.74
8:AH:14:ARG:HE	8:AH:83:ILE:HG23	1.51	0.74
15:AO:29:VAL:HG21	15:AO:67:LEU:CD2	2.16	0.74
17:AQ:29:HIS:CG	17:AQ:30:PRO:HD2	2.22	0.74
18:AR:53:ARG:NH1	18:AR:60:ALA:HA	2.02	0.74
35:BA:2508:G:O2'	35:BA:2509:G:H5'	1.87	0.74
35:BA:587:C:C4	47:BP:33:ARG:HG2	2.22	0.74
38:BD:265:PRO:C	38:BD:267:SER:H	1.90	0.74
42:BH:67:LEU:CG	42:BH:71:LEU:HD12	2.16	0.74
46:BO:43:VAL:HG21	46:BO:52:VAL:HG11	1.67	0.74
50:BS:106:ARG:HH12	50:BS:109:GLY:N	1.85	0.74
52:BU:95:LEU:HD13	53:BV:4:ILE:HG23	1.69	0.74
56:BY:73:ARG:HB3	56:BY:80:GLY:HA2	1.69	0.74
22:AV:2:G:O2'	22:AV:3:C:C6	2.40	0.74
24:AY:332:ARG:HB2	24:AY:339:ASP:OD1	1.87	0.74
26:B1:80:LEU:HB3	26:B1:82:LEU:HD23	1.69	0.74
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.23	0.74
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.17	0.74
25:B0:26:TYR:HE2	35:BA:857:C:H1'	1.50	0.74
35:BA:2784:C:H4'	39:BE:42:ASP:OD1	1.86	0.74
42:BH:64:LEU:O	42:BH:67:LEU:HB3	1.87	0.74
45:BN:22:THR:OG1	45:BN:25:ARG:HB2	1.86	0.74
53:BV:34:GLU:HA	53:BV:58:VAL:HA	1.69	0.74
54:BW:13:SER:HB3	54:BW:16:LYS:HD2	1.69	0.74
2:AB:97:TRP:HH2	2:AB:176:GLU:HG3	1.52	0.74
4:AD:174:LEU:CD2	4:AD:185:PHE:HA	2.17	0.74
5:AE:100:VAL:O	5:AE:107:ARG:NH2	2.19	0.74
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.69	0.74
9:AI:33:PHE:HZ	9:AI:43:ALA:HB1	1.52	0.74
9:AI:70:LYS:O	9:AI:73:GLN:HB2	1.88	0.74
12:AL:7:ILE:HG13	12:AL:10:LEU:HD12	1.69	0.74
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.16	0.74
35:BA:1434:A:H61	35:BA:1558:A:N6	1.85	0.74
35:BA:1496:A:H2'	35:BA:1498:C:C5	2.22	0.74
35:BA:176:G:O2'	35:BA:177:G:H5'	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.21	0.74
35:BA:1845:G:N2	35:BA:1895:C:O2	2.19	0.74
35:BA:1915:U:C2'	35:BA:1916:A:C5'	2.66	0.74
35:BA:2456:C:H2'	35:BA:2457:U:H6	1.52	0.74
35:BA:2532:G:O5'	35:BA:2532:G:H8	1.70	0.74
35:BA:2535:G:H2'	35:BA:2536:G:H8	1.52	0.74
35:BA:291:C:O2'	35:BA:292:C:H5'	1.87	0.74
32:B7:40:TRP:CZ3	35:BA:459:U:H4'	2.22	0.74
35:BA:729:G:H4'	35:BA:763:G:H5'	1.68	0.74
41:BG:161:THR:HG21	41:BG:172:LEU:CD1	2.16	0.74
41:BG:71:THR:HB	41:BG:89:GLY:O	1.88	0.74
35:BA:1007:C:H5''	45:BN:35:ARG:HH11	1.49	0.74
51:BT:48:ILE:HD12	51:BT:48:ILE:N	2.02	0.74
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.23	0.74
1:AA:839:U:O2	1:AA:839:U:H2'	1.87	0.74
8:AH:37:ARG:HH21	8:AH:41:ARG:HH22	1.33	0.74
9:AI:8:GLY:O	9:AI:76:ALA:HB1	1.87	0.74
9:AI:99:LEU:HD22	9:AI:99:LEU:N	2.02	0.74
13:AM:56:LEU:HD13	13:AM:57:ARG:N	2.02	0.74
14:AN:6:LEU:HB3	14:AN:23:ARG:NH2	2.00	0.74
15:AO:62:GLN:O	15:AO:65:ARG:HG3	1.85	0.74
17:AQ:87:LYS:O	17:AQ:91:ARG:HB2	1.86	0.74
24:AY:168:PRO:HG2	24:AY:171:TRP:HZ2	1.50	0.74
24:AY:527:ARG:HD2	24:AY:528:GLU:N	2.02	0.74
35:BA:2180:U:H6	35:BA:2181:G:C8	2.05	0.74
35:BA:234:C:H2'	35:BA:235:U:C6	2.22	0.74
48:BQ:29:PHE:CE2	48:BQ:67:ARG:NH2	2.47	0.74
25:B0:7:LEU:HD22	48:BQ:85:LYS:HG3	1.67	0.74
50:BS:15:ARG:O	50:BS:18:ILE:CD1	2.36	0.74
50:BS:54:LEU:HD22	50:BS:58:LEU:O	1.86	0.74
53:BV:3:ALA:O	53:BV:13:ARG:HA	1.87	0.74
56:BY:86:ARG:HB3	56:BY:88:LYS:HE3	1.67	0.74
2:AB:19:HIS:O	2:AB:39:ILE:HG23	1.86	0.74
5:AE:52:PRO:O	5:AE:55:VAL:HB	1.85	0.74
6:AF:12:PRO:HB3	6:AF:58:GLY:HA2	1.69	0.74
7:AG:104:LEU:O	7:AG:107:ALA:HB3	1.87	0.74
24:AY:309:PRO:O	24:AY:310:LYS:HG2	1.86	0.74
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.02	0.74
33:B8:52:LYS:O	33:B8:55:ALA:N	2.21	0.74
34:B9:6:SER:CB	35:BA:2466:C:H5''	2.17	0.74
35:BA:1750:G:N3	35:BA:2860:A:H2	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.52	0.74
35:BA:2801(A):A:C4'	35:BA:2802:G:H5'	2.18	0.74
35:BA:721:C:H3'	35:BA:722:A:C8	2.21	0.74
38:BD:68:LYS:HA	38:BD:70:TRP:CZ3	2.22	0.74
42:BH:125:VAL:O	42:BH:127:GLU:N	2.20	0.74
45:BN:18:ALA:HB1	45:BN:21:LYS:HB3	1.68	0.74
35:BA:1952:A:C6	46:BO:22:ILE:HD12	2.22	0.74
35:BA:1188:U:H4'	53:BV:79:VAL:HG12	1.70	0.74
56:BY:81:LYS:HD3	56:BY:97:ARG:O	1.86	0.74
1:AA:543:C:P	4:AD:14:ARG:HH21	2.09	0.74
2:AB:8:LYS:HZ3	2:AB:217:ARG:CZ	2.00	0.74
19:AS:47:HIS:H	19:AS:62:ILE:HG21	1.52	0.74
24:AY:251:ILE:HD12	24:AY:252:THR:N	2.02	0.74
26:B1:3:LYS:HD3	35:BA:1364:G:OP2	1.87	0.74
35:BA:1013:C:O2'	35:BA:1014:U:H5'	1.87	0.74
35:BA:573:G:O2'	35:BA:574:C:H5'	1.88	0.74
35:BA:612:C:H2'	35:BA:613:G:C5'	2.17	0.74
35:BA:629:G:H5'	35:BA:629:G:H8	1.51	0.74
35:BA:753:C:H2'	35:BA:754:C:C6	2.22	0.74
35:BA:762:U:H5'	35:BA:763:G:N2	2.02	0.74
35:BA:862:G:H2'	35:BA:863:A:O4'	1.87	0.74
37:BC:45:ALA:HB3	37:BC:171:ILE:CG2	2.17	0.74
38:BD:148:GLU:HB3	38:BD:149:PRO:HD2	1.69	0.74
39:BE:198:VAL:HG12	39:BE:199:ARG:N	2.02	0.74
47:BP:40:SER:O	47:BP:41:ARG:HD2	1.87	0.74
57:BZ:116:VAL:O	57:BZ:174:VAL:HG13	1.88	0.74
1:AA:1457:G:H2'	1:AA:1458:G:C8	2.22	0.74
1:AA:172:A:H5''	1:AA:172:A:H8	1.51	0.74
1:AA:594:G:H2'	1:AA:595:G:O4'	1.87	0.74
1:AA:737:A:H2'	1:AA:738:C:C6	2.22	0.74
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.02	0.74
9:AI:82:ALA:HB1	9:AI:96:LEU:HD21	1.69	0.74
19:AS:63:THR:HG23	19:AS:65:ASN:H	1.52	0.74
21:AU:12:LYS:HB3	21:AU:17:THR:O	1.86	0.74
24:AY:114:ASP:O	24:AY:118:GLY:HA2	1.87	0.74
24:AY:304:GLN:HB3	24:AY:314:ARG:O	1.86	0.74
32:B7:1:MET:O	32:B7:2:LYS:O	2.06	0.74
33:B8:13:ARG:HH12	47:BP:59:LEU:HD23	1.51	0.74
35:BA:1526:G:H2'	35:BA:1527:G:C8	2.23	0.74
35:BA:1590:U:C2'	35:BA:1591:G:H5''	2.16	0.74
35:BA:2826:A:H2'	35:BA:2827:C:H6	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:61:G:H2'	35:BA:62:C:C6	2.23	0.74
38:BD:198:ASN:HD22	38:BD:198:ASN:C	1.89	0.74
39:BE:98:PRO:HD3	39:BE:175:VAL:HG12	1.69	0.74
55:BX:12:VAL:HG23	55:BX:13:LEU:H	1.48	0.74
1:AA:1106:G:O2'	1:AA:1107:C:H5'	1.88	0.74
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.53	0.74
4:AD:13:ARG:HD2	4:AD:38:TYR:O	1.88	0.74
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	1.88	0.74
10:AJ:50:ILE:HG12	14:AN:41:ARG:HD2	1.68	0.74
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.70	0.74
16:AP:72:ARG:HG2	16:AP:73:LEU:HG	1.67	0.74
24:AY:223:LEU:HG	42:BH:97:ARG:NH1	2.01	0.74
29:B4:35:VAL:HG12	29:B4:36:CYS:N	2.02	0.74
33:B8:43:GLN:C	33:B8:44:LYS:HD2	2.07	0.74
34:B9:7:VAL:HG13	34:B9:34:GLN:CG	2.17	0.74
35:BA:242:G:H1'	35:BA:243:U:H5	1.53	0.74
35:BA:796:C:H2'	35:BA:797:C:C6	2.22	0.74
38:BD:111:LEU:HD11	38:BD:115:GLN:HE21	1.52	0.74
46:BO:63:VAL:HG22	46:BO:84:ALA:HA	1.69	0.74
48:BQ:20:ALA:O	48:BQ:98:LYS:HB3	1.87	0.74
51:BT:108:ARG:C	51:BT:110:ILE:N	2.41	0.74
30:B5:25:LEU:CD1	54:BW:23:LEU:HD22	2.14	0.74
1:AA:635:G:O2'	1:AA:636:U:H5'	1.88	0.74
1:AA:80:G:C3'	1:AA:81:U:H5'	2.17	0.74
22:AV:26:G:H22	22:AV:44:A:H61	1.35	0.74
35:BA:1013:C:C2'	35:BA:1014:U:H5'	2.18	0.74
35:BA:1155:A:P	52:BU:55:ARG:HE	2.10	0.74
35:BA:2574:G:H2'	35:BA:2575:C:O4'	1.88	0.74
35:BA:957:A:C2	35:BA:2459:A:H5'	2.22	0.74
38:BD:111:LEU:HD12	38:BD:112:GLN:H	1.51	0.74
38:BD:226:MET:CE	38:BD:230:ASP:HB3	2.17	0.74
40:BF:195:ASP:HB3	40:BF:198:ALA:HB3	1.70	0.74
42:BH:35:VAL:CG1	42:BH:72:ILE:HD11	2.18	0.74
49:BR:116:LEU:O	49:BR:117:VAL:HG12	1.88	0.74
49:BR:94:TYR:CD1	49:BR:94:TYR:N	2.46	0.74
57:BZ:111:VAL:HA	57:BZ:115:GLY:HA3	1.69	0.74
57:BZ:119:GLU:HG3	57:BZ:122:ARG:CD	2.18	0.74
57:BZ:150:LEU:O	57:BZ:171:ILE:HG12	1.87	0.74
1:AA:981:U:H2'	1:AA:982:U:H5	1.49	0.74
2:AB:229:VAL:HG12	2:AB:230:VAL:N	2.03	0.74
17:AQ:3:LYS:HB2	17:AQ:60:ILE:HD11	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:23:PRO:O	21:AU:25:LYS:N	2.20	0.74
24:AY:420:SER:OG	24:AY:426:GLN:HA	1.87	0.74
35:BA:1140:C:H5'	35:BA:1141:U:OP2	1.88	0.74
35:BA:2111:C:N3	35:BA:2147:G:N2	2.35	0.74
35:BA:44:G:H2'	35:BA:215:G:C8	2.23	0.74
35:BA:263:C:H4'	35:BA:430:G:O4'	1.87	0.74
35:BA:950:G:H2'	35:BA:951:C:H6	1.51	0.74
37:BC:22:ILE:CD1	37:BC:190:ARG:HG2	2.18	0.74
38:BD:181:GLU:CB	38:BD:272:ALA:HB1	2.18	0.74
41:BG:71:THR:HG22	41:BG:72:ARG:N	2.01	0.74
1:AA:551:U:O2'	1:AA:552:U:H5'	1.88	0.73
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.02	0.73
5:AE:92:LYS:O	5:AE:118:ILE:HG13	1.87	0.73
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	2.03	0.73
22:AV:57:A:O2'	22:AV:58:A:H5'	1.88	0.73
24:AY:146:ARG:NH2	35:BA:2654:A:OP1	2.21	0.73
24:AY:295:LYS:O	24:AY:323:GLY:HA3	1.88	0.73
24:AY:299:PHE:CD2	24:AY:299:PHE:N	2.53	0.73
27:B2:25:VAL:HG22	27:B2:60:LEU:CD1	2.14	0.73
30:B5:13:LYS:C	30:B5:16:ARG:HB3	2.08	0.73
35:BA:1423:G:H2'	35:BA:1424:G:C8	2.21	0.73
35:BA:1655:A:H4'	39:BE:115:GLY:N	2.02	0.73
35:BA:2126:A:N6	35:BA:2163:C:H4'	2.02	0.73
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.52	0.73
35:BA:2894:G:H2'	35:BA:2894:G:N3	2.03	0.73
35:BA:81:G:N2	56:BY:2:ARG:HH12	1.84	0.73
38:BD:26:LYS:HZ2	38:BD:113:VAL:HG21	1.47	0.73
38:BD:92:ILE:HG22	38:BD:106:ILE:CA	2.14	0.73
40:BF:110:LEU:HD22	40:BF:183:VAL:CG1	2.18	0.73
41:BG:102:PHE:CD1	41:BG:102:PHE:C	2.61	0.73
41:BG:44:GLY:O	41:BG:47:LYS:HE2	1.88	0.73
55:BX:12:VAL:HG12	55:BX:27:THR:C	2.07	0.73
57:BZ:20:ARG:CB	57:BZ:20:ARG:HH11	2.01	0.73
2:AB:152:PHE:O	2:AB:153:ARG:HG2	1.88	0.73
5:AE:41:VAL:HG23	5:AE:67:VAL:CG1	2.18	0.73
15:AO:68:ARG:CD	15:AO:72:ARG:HE	2.00	0.73
18:AR:43:PHE:O	18:AR:51:LEU:HD12	1.87	0.73
29:B4:28:LYS:HE3	29:B4:28:LYS:HA	1.70	0.73
32:B7:44:PRO:HG2	35:BA:465:G:H5''	1.68	0.73
35:BA:1438:U:C5	35:BA:1552:G:N2	2.56	0.73
35:BA:1537:G:H2'	35:BA:1538:G:H8	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:404:C:H4'	35:BA:405:U:H5'	1.68	0.73
35:BA:861:A:C2	35:BA:862:G:C1'	2.71	0.73
35:BA:861:A:C2	35:BA:862:G:H1'	2.23	0.73
36:BB:41:U:H3	41:BG:70:VAL:HB	1.53	0.73
37:BC:139:ASN:OD1	37:BC:140:PRO:HD2	1.89	0.73
37:BC:47:LEU:HD11	37:BC:171:ILE:CD1	2.18	0.73
38:BD:268:ARG:H	38:BD:270:ILE:CD1	2.00	0.73
40:BF:175:THR:O	40:BF:176:LEU:HD12	1.87	0.73
42:BH:87:LEU:CD2	42:BH:162:ILE:HD11	2.18	0.73
48:BQ:106:VAL:HG21	48:BQ:114:ALA:HB1	1.68	0.73
49:BR:38:VAL:CG2	49:BR:110:PRO:HB2	2.18	0.73
50:BS:53:SER:C	50:BS:55:ALA:N	2.40	0.73
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.70	0.73
3:AC:9:GLY:O	3:AC:12:LEU:HG	1.88	0.73
9:AI:55:ALA:HB1	9:AI:59:PHE:CE2	2.23	0.73
13:AM:75:ALA:HA	13:AM:78:ILE:HB	1.67	0.73
13:AM:88:ARG:CG	13:AM:98:VAL:HG11	2.18	0.73
22:AV:2:G:O2'	22:AV:3:C:H6	1.71	0.73
34:B9:26:ILE:HG22	34:B9:27:CYS:N	2.01	0.73
35:BA:1786:A:C5	35:BA:1938:A:C2	2.76	0.73
35:BA:689:A:O2'	35:BA:690:G:H5'	1.88	0.73
37:BC:156:ILE:HA	37:BC:160:ARG:CB	2.16	0.73
38:BD:117:VAL:HG22	38:BD:129:ASN:OD1	1.87	0.73
38:BD:31:LYS:HG2	38:BD:33:LEU:CD2	2.17	0.73
41:BG:140:ILE:C	41:BG:140:ILE:HD12	2.08	0.73
42:BH:105:LEU:HD23	42:BH:105:LEU:O	1.87	0.73
24:AY:223:LEU:CG	42:BH:97:ARG:HH12	2.00	0.73
46:BO:21:CYS:HA	46:BO:41:ALA:CB	2.18	0.73
57:BZ:24:LEU:HD12	57:BZ:41:LEU:HA	1.71	0.73
2:AB:220:ASP:HA	2:AB:223:ILE:CD1	2.14	0.73
3:AC:70:VAL:HG12	3:AC:71:ALA:N	2.01	0.73
5:AE:87:SER:CB	5:AE:130:ASN:HB3	2.18	0.73
18:AR:66:LEU:O	18:AR:70:ILE:HG13	1.89	0.73
22:AV:17:C:H3'	22:AV:17(A):U:C5'	2.17	0.73
24:AY:347:THR:HG21	24:AY:357:GLU:OE2	1.88	0.73
33:B8:8:LYS:NZ	33:B8:11:LYS:NZ	2.36	0.73
35:BA:2822:G:H2'	35:BA:2823:A:H5''	1.71	0.73
35:BA:2823:A:H2'	35:BA:2824:C:C6	2.24	0.73
36:BB:94:C:H2'	36:BB:95:C:C6	2.23	0.73
39:BE:105:THR:HG22	39:BE:106:GLY:H	1.52	0.73
39:BE:76:ARG:O	39:BE:77:ILE:O	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:131:GLY:HA2	40:BF:138:GLU:HB3	1.69	0.73
45:BN:90:MET:HE1	45:BN:94:HIS:HB2	1.70	0.73
46:BO:22:ILE:HB	46:BO:40:VAL:O	1.88	0.73
51:BT:9:LEU:O	51:BT:12:SER:HB2	1.88	0.73
3:AC:114:PRO:O	3:AC:118:GLN:HG3	1.88	0.73
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.70	0.73
6:AF:79:LEU:O	6:AF:85:VAL:HG11	1.88	0.73
6:AF:4:TYR:CE1	6:AF:92:LYS:HG3	2.23	0.73
8:AH:119:LEU:HD22	8:AH:123:GLU:HB3	1.70	0.73
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.54	0.73
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.03	0.73
17:AQ:59:ILE:HD13	17:AQ:73:VAL:HA	1.69	0.73
24:AY:151:PRO:HA	24:AY:154:LEU:CD1	2.19	0.73
24:AY:181:GLY:CA	24:AY:263:PHE:CZ	2.67	0.73
30:B5:13:LYS:HA	30:B5:16:ARG:CB	2.19	0.73
30:B5:45:VAL:HG22	30:B5:51:TYR:CE1	2.23	0.73
30:B5:6:VAL:HG23	35:BA:2015:A:C2	2.23	0.73
35:BA:21:A:O2'	35:BA:22:C:H5'	1.88	0.73
33:B8:62:LEU:HD22	35:BA:242:G:C5'	2.18	0.73
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.18	0.73
37:BC:141:LYS:NZ	37:BC:164:ARG:NH2	2.36	0.73
38:BD:79:VAL:HG21	38:BD:115:GLN:HB2	1.70	0.73
41:BG:144:ILE:O	41:BG:144:ILE:HG23	1.87	0.73
42:BH:98:LEU:HB3	42:BH:125:VAL:HG21	1.70	0.73
46:BO:86:ILE:CG2	46:BO:94:ARG:HG3	2.06	0.73
47:BP:106:LEU:HD11	47:BP:112:LEU:HG	1.70	0.73
47:BP:71:VAL:N	47:BP:72:PRO:HD3	2.04	0.73
50:BS:42:ASP:O	50:BS:43:GLU:HB3	1.88	0.73
35:BA:534:U:O2'	52:BU:49:HIS:HD2	1.72	0.73
54:BW:29:LEU:O	54:BW:33:ARG:HG3	1.89	0.73
57:BZ:29:TYR:O	57:BZ:30:ASN:HB3	1.87	0.73
1:AA:310:G:H2'	1:AA:311:C:C6	2.23	0.73
24:AY:109:CYS:O	24:AY:137:ILE:CA	2.36	0.73
35:BA:1695:G:C2'	35:BA:1696:G:H5'	2.18	0.73
35:BA:1926:U:O2	35:BA:1926:U:H2'	1.86	0.73
39:BE:26:ILE:HG13	39:BE:182:LEU:HB3	1.69	0.73
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.52	0.73
35:BA:1275:A:N6	49:BR:16:HIS:HA	2.03	0.73
53:BV:58:VAL:HG12	53:BV:59:ALA:N	2.02	0.73
57:BZ:18:LEU:H	57:BZ:18:LEU:CD2	2.01	0.73
57:BZ:91:LEU:HD22	57:BZ:130:PRO:HB3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:108:G:H5'	1:AA:109:A:C5'	2.18	0.73
1:AA:1323:G:H4'	1:AA:1363:C:C2	2.24	0.73
1:AA:16:A:H2'	1:AA:17:U:H5'	1.71	0.73
1:AA:194:C:C2'	1:AA:195:A:H5''	2.17	0.73
24:AY:225:GLN:O	24:AY:228:ARG:HB3	1.88	0.73
26:B1:73:LEU:HD22	26:B1:94:LEU:HB3	1.71	0.73
35:BA:1747:G:H2'	35:BA:1747(A):G:C8	2.21	0.73
35:BA:1840:G:H1	35:BA:1902:C:N4	1.85	0.73
35:BA:1820:U:C5	38:BD:202:LYS:HD3	2.23	0.73
51:BT:4:GLY:O	51:BT:7:ILE:HB	1.89	0.73
57:BZ:79:ARG:O	57:BZ:81:ARG:N	2.21	0.73
1:AA:1191:A:C2	1:AA:1192:C:C4	2.76	0.73
1:AA:621:A:H2'	1:AA:622:A:C8	2.23	0.73
1:AA:872:A:O2'	1:AA:873:A:H3'	1.87	0.73
2:AB:102:LEU:O	2:AB:105:PHE:HB2	1.88	0.73
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.18	0.73
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.03	0.73
24:AY:80:HIS:CD2	24:AY:273:VAL:HG21	2.23	0.73
25:B0:43:THR:CG2	35:BA:2332:U:H5'	2.18	0.73
35:BA:1266:G:N2	35:BA:2012:G:H2'	2.03	0.73
35:BA:145:G:C3'	35:BA:146:G:H5''	2.19	0.73
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.23	0.73
35:BA:1932:A:H2'	35:BA:1933:G:O4'	1.89	0.73
35:BA:2108:C:O2	35:BA:2108:C:H2'	1.87	0.73
35:BA:2678:C:H2'	35:BA:2679:A:O4'	1.88	0.73
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	1.99	0.73
35:BA:957:A:N1	35:BA:2458:G:H4'	2.03	0.73
36:BB:80:U:H2'	36:BB:81:G:H21	1.52	0.73
38:BD:6:PHE:HD2	38:BD:17:THR:HA	1.52	0.73
42:BH:102:ALA:HA	42:BH:115:VAL:O	1.89	0.73
47:BP:7:ARG:HH11	47:BP:7:ARG:CA	1.99	0.73
56:BY:13:VAL:HG13	56:BY:14:LEU:N	2.02	0.73
1:AA:735:C:H2'	1:AA:736:C:H6	1.53	0.73
5:AE:6:PHE:HB3	5:AE:35:GLY:O	1.87	0.73
1:AA:668:G:H4'	15:AO:48:LYS:HB2	1.70	0.73
21:AU:10:ARG:O	21:AU:13:ILE:HB	1.89	0.73
21:AU:23:PRO:C	21:AU:25:LYS:H	1.91	0.73
34:B9:16:VAL:HG11	35:BA:1032:A:H4'	1.71	0.73
35:BA:1218:C:H2'	35:BA:1219:G:H5'	1.70	0.73
35:BA:1344:G:H4'	35:BA:1384:A:N7	2.03	0.73
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:847:U:OP2	35:BA:928:G:O6	2.07	0.73
37:BC:180:PHE:HD2	37:BC:184:LYS:HG3	1.53	0.73
38:BD:247:ALA:HB1	38:BD:253:GLN:HA	1.71	0.73
38:BD:35:LYS:HG2	38:BD:63:ARG:CG	2.19	0.73
45:BN:63:THR:HB	45:BN:66:LYS:NZ	2.04	0.73
50:BS:49:VAL:O	50:BS:50:SER:HB3	1.87	0.73
52:BU:28:ARG:HD3	52:BU:38:THR:CG2	2.19	0.73
53:BV:28:GLU:O	53:BV:61:VAL:HG21	1.89	0.73
56:BY:15:VAL:HG12	56:BY:15:VAL:O	1.88	0.73
56:BY:23:ARG:HG2	56:BY:23:ARG:HH11	1.54	0.73
1:AA:589:C:H1'	1:AA:653:A:H61	1.54	0.73
1:AA:624:C:H2'	1:AA:625:G:C8	2.23	0.73
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.54	0.73
12:AL:109:GLY:CA	12:AL:121:GLY:HA3	2.18	0.73
16:AP:2:VAL:O	16:AP:64:ALA:HA	1.89	0.73
24:AY:13:ARG:CD	24:AY:363:ASP:OD2	2.37	0.73
24:AY:399:ARG:HA	24:AY:466:VAL:HG22	1.71	0.73
28:B3:4:LEU:O	28:B3:36:VAL:HA	1.89	0.73
35:BA:1448:G:H2'	35:BA:1449:A:H8	1.54	0.73
35:BA:2562:U:H2'	35:BA:2563:U:H5'	1.71	0.73
35:BA:2577:A:H5''	35:BA:2578:G:H5'	1.70	0.73
35:BA:566:U:H2'	35:BA:567:A:O4'	1.89	0.73
35:BA:621:A:H2'	35:BA:622:G:C5'	2.19	0.73
37:BC:59:ARG:NE	37:BC:142:ALA:HB2	2.04	0.73
40:BF:181:LEU:HD11	40:BF:186:ILE:CD1	2.19	0.73
42:BH:94:TYR:HB3	42:BH:107:VAL:CB	2.19	0.73
45:BN:75:TYR:HB2	45:BN:82:LEU:HD12	1.70	0.73
47:BP:7:ARG:HA	47:BP:7:ARG:NH1	2.01	0.73
52:BU:9:VAL:HG23	52:BU:10:ARG:H	1.53	0.73
56:BY:84:ARG:HG2	56:BY:85:VAL:H	1.52	0.73
1:AA:122:G:H2'	1:AA:123:C:C6	2.24	0.72
1:AA:29:G:O2'	1:AA:30:U:H5'	1.89	0.72
1:AA:19:C:OP1	5:AE:127:ASN:HB3	1.89	0.72
7:AG:79:ARG:HD3	7:AG:82:GLY:HA2	1.71	0.72
13:AM:23:TYR:HB3	13:AM:67:GLU:HB2	1.71	0.72
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.53	0.72
24:AY:103:LEU:O	24:AY:105:ALA:N	2.22	0.72
28:B3:4:LEU:HB2	28:B3:37:LEU:O	1.89	0.72
35:BA:1345:C:H4'	35:BA:1396:U:C4	2.24	0.72
35:BA:1466:G:H5'	35:BA:1467:C:OP1	1.88	0.72
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1894:C:H2'	35:BA:1895:C:H5''	1.69	0.72
35:BA:2715:C:H2'	35:BA:2716:U:H6	1.52	0.72
38:BD:27:THR:OG1	38:BD:83:GLU:HG2	1.88	0.72
51:BT:93:ARG:HG2	51:BT:117:ASP:HB2	1.71	0.72
1:AA:1152:A:H5'	10:AJ:70:ARG:NH2	2.04	0.72
1:AA:403:C:H4'	4:AD:122:ARG:NH2	2.05	0.72
2:AB:44:LEU:O	2:AB:47:THR:CB	2.37	0.72
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.69	0.72
4:AD:12:CYS:SG	4:AD:19:LEU:HB3	2.29	0.72
4:AD:59:ARG:NH1	4:AD:59:ARG:HA	2.03	0.72
8:AH:122:ARG:O	8:AH:125:ARG:HB3	1.89	0.72
8:AH:54:ASP:O	8:AH:56:LYS:HG3	1.89	0.72
1:AA:1318:A:N3	19:AS:37:ARG:NH2	2.37	0.72
26:B1:86:SER:OG	26:B1:89:GLU:HB2	1.89	0.72
30:B5:28:PRO:HD2	54:BW:35:ILE:HG23	1.71	0.72
35:BA:1755:A:O2'	35:BA:1756:G:H5'	1.89	0.72
35:BA:2007:C:H5'	35:BA:2824:C:H1'	1.70	0.72
38:BD:70:TRP:CD1	38:BD:70:TRP:O	2.42	0.72
42:BH:98:LEU:HD12	42:BH:99:VAL:N	2.04	0.72
47:BP:147:LEU:O	47:BP:148:LEU:HB2	1.87	0.72
49:BR:93:GLY:C	49:BR:94:TYR:HD1	1.92	0.72
50:BS:62:LYS:H	50:BS:65:VAL:HG23	1.53	0.72
52:BU:92:ARG:HH22	53:BV:10:LYS:HG2	1.54	0.72
1:AA:1242:C:O2'	1:AA:1243:C:H5'	1.89	0.72
1:AA:412:A:H5'	1:AA:413:G:OP1	1.90	0.72
3:AC:14:ILE:O	3:AC:14:ILE:HG12	1.87	0.72
5:AE:41:VAL:HG23	5:AE:67:VAL:HG12	1.69	0.72
6:AF:5:GLU:N	6:AF:91:VAL:O	2.22	0.72
19:AS:55:LYS:HG2	19:AS:56:GLN:HE21	1.52	0.72
24:AY:369:ASN:CB	24:AY:373:ILE:HG13	2.19	0.72
26:B1:53:VAL:HG22	26:B1:74:VAL:HG13	1.71	0.72
27:B2:38:GLN:O	27:B2:41:ILE:HG12	1.89	0.72
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.24	0.72
35:BA:122:G:H2'	35:BA:123:G:C8	2.24	0.72
35:BA:2469:A:O2'	48:BQ:56:ARG:HD2	1.89	0.72
40:BF:70:THR:C	40:BF:72:ARG:H	1.92	0.72
48:BQ:31:ASP:HB2	48:BQ:107:ALA:HA	1.71	0.72
57:BZ:40:ASP:OD1	57:BZ:42:VAL:HG12	1.89	0.72
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.24	0.72
1:AA:191:G:H1'	20:AT:105:SER:HB3	1.72	0.72
1:AA:441:A:H3'	1:AA:442:C:C6	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:633:G:H5'	1:AA:634:C:OP2	1.89	0.72
2:AB:148:TYR:O	2:AB:149:LEU:HD23	1.89	0.72
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.20	0.72
14:AN:60:SER:O	14:AN:61:TRP:HB3	1.88	0.72
1:AA:729:A:N6	15:AO:51:HIS:NE2	2.37	0.72
24:AY:184:HIS:NE2	24:AY:267:HIS:HB3	2.04	0.72
24:AY:412:LEU:HD23	24:AY:436:LEU:HD12	1.70	0.72
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.23	0.72
35:BA:2523:G:O4'	35:BA:2765:A:C8	2.42	0.72
35:BA:497:A:H2'	35:BA:498:G:H8	1.54	0.72
35:BA:918:A:C6	35:BA:919:G:HI'	2.24	0.72
37:BC:6:ARG:NH2	37:BC:10:LEU:HD23	2.04	0.72
37:BC:47:LEU:HD11	37:BC:171:ILE:CB	2.18	0.72
37:BC:45:ALA:HB3	37:BC:171:ILE:HG22	1.71	0.72
35:BA:2722:G:O2'	49:BR:5:LYS:HB3	1.88	0.72
51:BT:100:TYR:O	51:BT:103:ARG:HG3	1.88	0.72
51:BT:89:VAL:HG12	51:BT:91:ARG:HG3	1.70	0.72
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.24	0.72
1:AA:1321:C:H5'	1:AA:1322:C:H5''	1.71	0.72
3:AC:42:LEU:HD23	3:AC:43:LEU:HD21	1.70	0.72
4:AD:30:LYS:C	4:AD:32:ALA:N	2.41	0.72
4:AD:58:LEU:CD1	4:AD:59:ARG:HH12	2.02	0.72
5:AE:129:ILE:N	5:AE:129:ILE:CD1	2.50	0.72
5:AE:87:SER:OG	5:AE:131:ILE:HD13	1.90	0.72
14:AN:24:CYS:HB3	14:AN:27:CYS:O	1.89	0.72
18:AR:43:PHE:C	18:AR:51:LEU:HD12	2.10	0.72
20:AT:88:VAL:O	20:AT:92:LEU:HG	1.88	0.72
31:B6:45:LYS:HD3	31:B6:45:LYS:N	2.05	0.72
35:BA:1829:A:HO2'	38:BD:15:PHE:HD2	1.37	0.72
38:BD:133:LEU:HD21	38:BD:191:ALA:HB2	1.72	0.72
38:BD:206:LEU:CB	38:BD:211:ARG:HG2	2.20	0.72
39:BE:67:PHE:HD1	39:BE:68:ALA:N	1.88	0.72
41:BG:109:VAL:CG1	41:BG:142:PRO:HD3	2.18	0.72
47:BP:123:LEU:N	47:BP:123:LEU:HD23	2.04	0.72
48:BQ:120:ILE:O	48:BQ:123:HIS:N	2.22	0.72
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.54	0.72
1:AA:1321:C:H5'	1:AA:1322:C:H5'	1.71	0.72
2:AB:30:ARG:HG3	2:AB:31:TYR:H	1.54	0.72
4:AD:175:SER:HG	4:AD:184:LYS:HB2	1.54	0.72
5:AE:63:ARG:O	5:AE:64:ARG:HB2	1.90	0.72
11:AK:30:VAL:HG21	11:AK:68:ALA:CB	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:14:A:H2'	22:AV:15:G:O4'	1.90	0.72
24:AY:356:VAL:O	24:AY:357:GLU:HB2	1.87	0.72
24:AY:387:PHE:HD1	24:AY:387:PHE:H	1.37	0.72
24:AY:443:VAL:HG23	24:AY:444:LEU:HD22	1.70	0.72
33:B8:6:THR:O	33:B8:8:LYS:N	2.22	0.72
35:BA:1311:G:H21	35:BA:1603:A:H62	1.37	0.72
35:BA:1796:U:H2'	35:BA:1797:C:H6	1.52	0.72
35:BA:1817:G:O2'	35:BA:1818:U:H5'	1.89	0.72
35:BA:568:U:H5'	35:BA:945:A:N6	2.04	0.72
35:BA:852:G:H2'	35:BA:853:G:C8	2.25	0.72
38:BD:128:GLY:H	38:BD:193:VAL:HG13	1.53	0.72
39:BE:176:ILE:HB	39:BE:181:LEU:HB2	1.70	0.72
40:BF:156:LEU:HD12	40:BF:157:VAL:H	1.52	0.72
42:BH:126:PRO:O	42:BH:127:GLU:HB2	1.90	0.72
47:BP:112:LEU:H	47:BP:128:HIS:HD2	1.35	0.72
53:BV:31:ALA:O	53:BV:61:VAL:HG22	1.88	0.72
57:BZ:141:VAL:HG13	57:BZ:144:LEU:HB2	1.72	0.72
1:AA:1377:A:P	7:AG:94:ARG:NH2	2.63	0.72
1:AA:669:U:O2'	1:AA:670:G:H5'	1.89	0.72
1:AA:863:U:O2'	1:AA:865:A:N7	2.20	0.72
4:AD:102:ASP:CB	4:AD:121:VAL:HG21	2.19	0.72
4:AD:96:LEU:HD23	4:AD:139:ARG:NH1	2.05	0.72
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.72	0.72
1:AA:1240:U:O2'	7:AG:32:ARG:NH1	2.22	0.72
11:AK:38:ASN:ND2	11:AK:38:ASN:N	2.34	0.72
14:AN:40:CYS:O	14:AN:42:ILE:N	2.23	0.72
15:AO:17:ARG:HB3	15:AO:17:ARG:NH1	2.04	0.72
23:AX:12:A:H3'	23:AX:12:A:N3	2.04	0.72
24:AY:106:VAL:HG22	24:AY:108:CYS:H	1.54	0.72
33:B8:17:THR:OG1	33:B8:21:LYS:HB2	1.89	0.72
35:BA:2111:C:N3	35:BA:2145:C:H2'	2.05	0.72
38:BD:117:VAL:HG21	38:BD:128:GLY:CA	2.20	0.72
40:BF:175:THR:C	40:BF:176:LEU:HD12	2.10	0.72
40:BF:157:VAL:HG22	40:BF:193:VAL:O	1.90	0.72
41:BG:113:ARG:NE	41:BG:113:ARG:HA	2.04	0.72
41:BG:39:ILE:HA	41:BG:156:ASP:O	1.90	0.72
45:BN:3:THR:CG2	45:BN:5:VAL:HG23	2.19	0.72
47:BP:62:LEU:CD2	47:BP:62:LEU:H	2.01	0.72
48:BQ:27:VAL:HG21	48:BQ:134:ARG:HG3	1.70	0.72
51:BT:32:TYR:HB3	51:BT:81:PRO:CB	2.19	0.72
52:BU:114:LYS:HA	52:BU:117:GLN:HB2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:33:LEU:HD11	57:BZ:35:ARG:HB2	1.71	0.72
57:BZ:57:ILE:N	57:BZ:57:ILE:HD12	2.05	0.72
57:BZ:63:ASP:O	57:BZ:65:GLN:HG3	1.90	0.72
36:BB:104:U:O2'	57:BZ:72:ARG:HG3	1.90	0.72
1:AA:594:G:O2'	1:AA:595:G:H5'	1.89	0.72
1:AA:778:G:O2'	1:AA:779:C:H5'	1.90	0.72
1:AA:805:C:O2'	1:AA:806:C:H5'	1.90	0.72
3:AC:81:GLY:O	3:AC:85:ARG:HD3	1.90	0.72
4:AD:100:ARG:O	4:AD:103:ASN:HB3	1.90	0.72
5:AE:31:LEU:HD21	5:AE:43:LEU:HD11	1.70	0.72
11:AK:48:ILE:HD11	11:AK:64:ALA:HA	1.70	0.72
32:B7:24:THR:H	32:B7:28:ARG:CZ	2.02	0.72
35:BA:1441:G:H2'	35:BA:1442:G:C8	2.25	0.72
35:BA:2324:C:O2	35:BA:2385:C:H5	1.73	0.72
35:BA:307:G:H2'	35:BA:309:G:OP2	1.90	0.72
35:BA:720:C:C4	35:BA:721:C:H1'	2.25	0.72
35:BA:755:C:H2'	35:BA:756:C:C6	2.25	0.72
38:BD:24:ILE:CD1	38:BD:84:TYR:HA	2.20	0.72
38:BD:62:TYR:HE1	38:BD:64:ILE:HA	1.55	0.72
1:AA:1269:A:H2	1:AA:1312:G:H21	1.35	0.72
3:AC:82:GLU:O	3:AC:85:ARG:HB2	1.89	0.72
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.71	0.72
24:AY:389:GLY:O	24:AY:390:ILE:HG13	1.90	0.72
24:AY:395:PRO:HB2	24:AY:440:ALA:N	2.05	0.72
35:BA:1846:G:N2	35:BA:1847:A:N1	2.38	0.72
35:BA:2290:G:H2'	35:BA:2291:U:O4'	1.90	0.72
35:BA:2307:G:H21	35:BA:2308:G:H5'	1.53	0.72
35:BA:2450:A:C2	35:BA:2451:A:C4	2.77	0.72
35:BA:2603:G:N2	35:BA:2604:U:H1'	2.04	0.72
35:BA:442:G:H4'	40:BF:46:ARG:HB2	1.71	0.72
38:BD:182:LEU:O	38:BD:271:ILE:HG12	1.90	0.72
39:BE:132:HIS:HA	39:BE:135:HIS:HE1	1.54	0.72
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.54	0.72
33:B8:13:ARG:HD3	47:BP:61:ARG:HD3	1.69	0.72
52:BU:61:TRP:CZ3	52:BU:94:ASN:HB2	2.24	0.72
55:BX:29:TRP:HZ3	55:BX:59:VAL:HG21	1.55	0.72
2:AB:145:LEU:HD13	2:AB:149:LEU:HD12	1.71	0.72
2:AB:179:LYS:HA	8:AH:72:PRO:HD3	1.72	0.72
2:AB:235:SER:O	2:AB:237:ALA:N	2.22	0.72
4:AD:155:LEU:HB2	4:AD:158:ILE:HG12	1.70	0.72
5:AE:145:LYS:O	5:AE:149:GLU:HG2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:52:GLY:H	11:AK:55:LYS:HE2	1.53	0.72
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.51	0.72
24:AY:308:ASP:N	24:AY:309:PRO:CD	2.48	0.72
24:AY:325:TYR:HE2	24:AY:357:GLU:OE2	1.73	0.72
24:AY:74:VAL:HG11	24:AY:317:PHE:CE2	2.24	0.72
29:B4:24:THR:HG21	41:BG:104:GLU:OE2	1.90	0.72
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.37	0.72
35:BA:1291:C:H2'	35:BA:1292:U:H5'	1.69	0.72
35:BA:1428:C:C4	35:BA:1569:A:H5''	2.25	0.72
35:BA:1915:U:H2'	35:BA:1916:A:O5'	1.88	0.72
35:BA:1922:G:C2'	35:BA:1923:U:C5'	2.68	0.72
35:BA:1977:A:O2'	35:BA:1978:A:H5'	1.88	0.72
35:BA:2125:G:N2	35:BA:2173:A:H61	1.87	0.72
35:BA:532:A:N3	35:BA:532:A:H2'	2.05	0.72
37:BC:42:GLU:CD	37:BC:44:HIS:HE2	1.93	0.72
40:BF:82:ILE:HG12	40:BF:83:PHE:N	2.04	0.72
49:BR:117:VAL:O	49:BR:118:GLU:HB2	1.88	0.72
1:AA:1091:U:C2	1:AA:1095:U:N3	2.57	0.71
1:AA:759:A:H1'	12:AL:12:ARG:HH22	1.54	0.71
2:AB:87:ARG:HH12	2:AB:219:VAL:HB	1.54	0.71
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.72	0.71
9:AI:79:LEU:O	9:AI:79:LEU:HD13	1.89	0.71
11:AK:57:THR:OG1	11:AK:58:PRO:HD2	1.90	0.71
15:AO:70:LEU:HB3	15:AO:78:TYR:HB2	1.70	0.71
24:AY:28:THR:OG1	58:AY:1000:GCP:H5'1	1.90	0.71
25:B0:11:ARG:CB	25:B0:11:ARG:HH11	2.03	0.71
26:B1:80:LEU:HB3	26:B1:82:LEU:CD2	2.20	0.71
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.19	0.71
35:BA:1892:C:C2'	35:BA:1893:C:H5'	2.15	0.71
25:B0:20:ARG:HH22	35:BA:2271:G:H4'	1.55	0.71
35:BA:603:A:H1'	35:BA:604:G:OP2	1.89	0.71
38:BD:208:LYS:HG3	38:BD:210:GLY:N	2.04	0.71
41:BG:56:ALA:O	41:BG:59:GLU:HG2	1.90	0.71
47:BP:112:LEU:HD22	47:BP:113:LYS:N	2.05	0.71
35:BA:2278:A:OP1	48:BQ:11:LYS:HG3	1.89	0.71
48:BQ:133:ARG:CB	48:BQ:133:ARG:HH11	2.02	0.71
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.55	0.71
1:AA:390:C:H2'	1:AA:391:G:H8	1.54	0.71
3:AC:139:GLN:NE2	3:AC:143:GLU:HB2	2.05	0.71
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.03	0.71
10:AJ:64:GLU:CG	14:AN:59:ALA:HA	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:21:VAL:HG12	16:AP:34:GLU:O	1.91	0.71
18:AR:44:LEU:HB3	18:AR:48:GLY:HA2	1.71	0.71
1:AA:719:C:O2	18:AR:50:ILE:HG12	1.89	0.71
19:AS:9:VAL:HG13	19:AS:39:THR:OG1	1.90	0.71
24:AY:395:PRO:HG2	24:AY:398:PHE:CZ	2.25	0.71
27:B2:2:LYS:HD2	27:B2:5:GLU:OE2	1.89	0.71
28:B3:8:LEU:HD13	28:B3:30:ARG:O	1.90	0.71
32:B7:6:GLN:OE1	32:B7:6:GLN:HA	1.90	0.71
35:BA:1911:U:C2	35:BA:1918:A:C2	2.79	0.71
35:BA:2223:G:H5''	38:BD:269:PHE:HZ	1.55	0.71
34:B9:19:ARG:NH1	35:BA:2755:C:C6	2.58	0.71
35:BA:2840:C:O2'	35:BA:2841:C:H5'	1.89	0.71
46:BO:64:ARG:NE	51:BT:70:VAL:HG21	2.05	0.71
47:BP:38:GLN:CG	47:BP:39:LYS:H	1.99	0.71
50:BS:85:VAL:H	50:BS:106:ARG:HA	1.54	0.71
52:BU:19:LYS:C	52:BU:21:ALA:H	1.91	0.71
57:BZ:155:LEU:HD23	57:BZ:155:LEU:H	1.54	0.71
1:AA:1277:C:HO2'	1:AA:1279:A:H8	1.35	0.71
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.25	0.71
2:AB:61:LEU:N	2:AB:64:ARG:HH21	1.88	0.71
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.19	0.71
1:AA:585:G:H4'	12:AL:8:ASN:ND2	2.05	0.71
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.53	0.71
35:BA:1024:G:H8	35:BA:1024:G:O5'	1.74	0.71
35:BA:1444:G:H2'	35:BA:1445(A):C:C4	2.24	0.71
32:B7:2:LYS:HB2	35:BA:1620:G:O2'	1.91	0.71
35:BA:1805:U:O2	38:BD:50:THR:HB	1.89	0.71
35:BA:1817:G:C2'	35:BA:1818:U:H5'	2.19	0.71
35:BA:2113:U:H2'	35:BA:2114:A:C8	2.18	0.71
35:BA:2821:A:OP1	39:BE:110:GLY:N	2.16	0.71
38:BD:71:ASP:CG	38:BD:103:ARG:HH12	1.94	0.71
39:BE:98:PRO:HD3	39:BE:175:VAL:CG1	2.20	0.71
41:BG:40:ASN:HB2	41:BG:91:ARG:HB2	1.72	0.71
47:BP:85:LEU:HA	47:BP:88:LEU:HB3	1.71	0.71
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.24	0.71
1:AA:1348:U:OP1	9:AI:110:GLU:N	2.20	0.71
1:AA:1371:G:H2'	1:AA:1372:U:C6	2.25	0.71
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.21	0.71
11:AK:63:LEU:HD23	11:AK:63:LEU:H	1.55	0.71
13:AM:10:PRO:HB3	13:AM:18:ALA:HB1	1.73	0.71
24:AY:295:LYS:C	24:AY:323:GLY:HA3	2.11	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:346:LEU:HB2	24:AY:366:GLY:CA	2.18	0.71
24:AY:508:MET:O	24:AY:511:LEU:HB3	1.91	0.71
31:B6:13:CYS:SG	31:B6:22:ALA:HB3	2.30	0.71
35:BA:1494:A:N3	35:BA:1494:A:H3'	2.05	0.71
30:B5:7:PRO:HG2	35:BA:2016:U:O2	1.90	0.71
38:BD:247:ALA:CB	38:BD:252:TRP:O	2.38	0.71
35:BA:2873:A:H1'	49:BR:6:SER:OG	1.90	0.71
51:BT:62:THR:CG2	51:BT:75:ILE:HG13	2.20	0.71
54:BW:26:GLY:N	54:BW:71:VAL:HB	2.06	0.71
57:BZ:100:VAL:HG11	57:BZ:137:ILE:HG12	1.72	0.71
3:AC:83:ARG:HG3	3:AC:87:LEU:HD11	1.71	0.71
12:AL:41:ARG:NH1	12:AL:41:ARG:HB2	2.04	0.71
1:AA:1047:G:H5''	14:AN:4:LYS:CE	2.18	0.71
24:AY:21:HIS:HD2	24:AY:122:ARG:N	1.87	0.71
24:AY:134:ASP:OD1	24:AY:249:GLY:HA2	1.89	0.71
24:AY:78:PRO:HB3	24:AY:83:LEU:CB	2.20	0.71
28:B3:30:ARG:O	28:B3:33:GLN:HB2	1.89	0.71
35:BA:1912:A:H5''	35:BA:1918:A:N6	2.05	0.71
35:BA:1951:U:H2'	35:BA:1953:A:OP2	1.89	0.71
35:BA:2001:A:H2'	35:BA:2002:G:H8	1.51	0.71
35:BA:515:A:H2'	35:BA:516:C:H5'	1.72	0.71
38:BD:181:GLU:HG3	38:BD:272:ALA:CB	2.20	0.71
47:BP:34:GLY:O	47:BP:35:HIS:HB2	1.89	0.71
48:BQ:30:GLY:N	48:BQ:105:GLU:OE2	2.23	0.71
51:BT:29:ARG:HE	51:BT:86:ILE:CG2	2.03	0.71
51:BT:54:ARG:HA	51:BT:59:THR:CB	2.20	0.71
1:AA:226:G:C2'	1:AA:227:G:H5'	2.20	0.71
1:AA:356:A:O3'	1:AA:367:U:H6	1.73	0.71
2:AB:23:ARG:O	2:AB:23:ARG:NH1	2.23	0.71
9:AI:53:VAL:HG13	9:AI:95:LYS:NZ	2.04	0.71
1:AA:1202:G:C2	14:AN:42:ILE:CG2	2.73	0.71
16:AP:57:ARG:HA	16:AP:60:LEU:HD12	1.70	0.71
22:AV:55:U:C6	22:AV:57:A:OP2	2.44	0.71
24:AY:138:LEU:HD13	24:AY:268:MET:SD	2.30	0.71
24:AY:440:ALA:HB2	24:AY:446:PHE:CE1	2.26	0.71
24:AY:483:GLU:O	24:AY:486:LYS:HG2	1.90	0.71
35:BA:2243:U:O2'	35:BA:2244:U:H5'	1.89	0.71
26:B1:79:GLY:HA2	35:BA:271(H):G:N2	2.06	0.71
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.21	0.71
35:BA:897:C:H5''	35:BA:897:C:H6	1.55	0.71
37:BC:183:GLU:O	37:BC:187:ASP:HB2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:197:ILE:CD1	39:BE:199:ARG:HH22	2.04	0.71
41:BG:47:LYS:HG2	41:BG:81:LYS:HG3	1.72	0.71
49:BR:13:HIS:CE1	49:BR:16:HIS:HB2	2.25	0.71
49:BR:38:VAL:HB	49:BR:39:PRO:HD3	1.71	0.71
56:BY:52:SER:O	56:BY:54:LYS:N	2.24	0.71
1:AA:427:U:H5'	4:AD:41:GLY:HA2	1.73	0.71
1:AA:499:A:O3'	1:AA:500:G:H8	1.73	0.71
8:AH:110:ALA:HB3	8:AH:121:ASP:HB3	1.72	0.71
22:AV:48:C:OP1	22:AV:48:C:H6	1.72	0.71
24:AY:390:ILE:HG22	24:AY:390:ILE:O	1.90	0.71
33:B8:8:LYS:HZ2	33:B8:11:LYS:CE	2.04	0.71
35:BA:1361:G:O2'	35:BA:1362:C:H5'	1.90	0.71
35:BA:1447:G:C5'	35:BA:1545:A:H4'	2.17	0.71
35:BA:1773:A:C2'	35:BA:1774:C:H5'	2.21	0.71
35:BA:568:U:H2'	35:BA:570:G:OP2	1.89	0.71
37:BC:100:ILE:HG12	37:BC:127:MET:CE	2.20	0.71
37:BC:141:LYS:HZ1	37:BC:164:ARG:NH2	1.89	0.71
38:BD:142:VAL:O	38:BD:163:ALA:HB3	1.90	0.71
38:BD:2:ALA:C	38:BD:3:VAL:HG23	2.11	0.71
35:BA:1012:U:O4	45:BN:28:THR:HG21	1.90	0.71
48:BQ:95:ALA:O	48:BQ:97:VAL:HG23	1.89	0.71
57:BZ:108:PRO:HG2	57:BZ:111:VAL:HG21	1.70	0.71
1:AA:1145:C:O2'	1:AA:1146:A:H8	1.73	0.71
1:AA:1286:A:O2'	1:AA:1287:A:H5''	1.90	0.71
1:AA:64:G:H4'	1:AA:65:U:H5''	1.73	0.71
1:AA:768:A:OP1	1:AA:804:U:H4'	1.91	0.71
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	1.91	0.71
24:AY:174:GLY:O	24:AY:179:PHE:HD1	1.72	0.71
24:AY:186:TYR:CE2	24:AY:241:PHE:HB3	2.25	0.71
24:AY:315:VAL:HG21	24:AY:346:LEU:HD12	1.71	0.71
26:B1:76:ARG:NH2	26:B1:95:LEU:HD13	2.06	0.71
35:BA:1496:A:H2'	35:BA:1498:C:C4	2.26	0.71
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.25	0.71
35:BA:1830:C:H2'	35:BA:1831:G:H8	1.55	0.71
35:BA:1902:C:O2'	38:BD:244:ARG:CB	2.33	0.71
35:BA:2126:A:H61	35:BA:2163:C:H4'	1.53	0.71
35:BA:2378:A:N1	50:BS:19:LYS:HE3	2.04	0.71
35:BA:1819:A:H5''	38:BD:158:ALA:CB	2.19	0.71
40:BF:7:TYR:HD2	40:BF:16:GLY:CA	2.04	0.71
41:BG:86:MET:O	41:BG:86:MET:HG2	1.89	0.71
42:BH:122:THR:CG2	42:BH:123:PHE:H	1.99	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:94:TYR:HD1	42:BH:108:GLY:N	1.89	0.71
47:BP:112:LEU:H	47:BP:128:HIS:CD2	2.09	0.71
47:BP:113:LYS:HE2	47:BP:131:SER:HB3	1.73	0.71
48:BQ:131:ILE:N	48:BQ:131:ILE:HD12	2.06	0.71
1:AA:642:A:N3	8:AH:113:SER:OG	2.22	0.71
1:AA:853:G:O2'	1:AA:854:G:H5'	1.89	0.71
1:AA:92:C:H2'	1:AA:93:G:C8	2.26	0.71
2:AB:106:LYS:O	2:AB:109:SER:HB2	1.91	0.71
3:AC:36:ASP:O	3:AC:40:ARG:HG3	1.90	0.71
5:AE:110:LEU:O	5:AE:113:ALA:HB3	1.91	0.71
5:AE:62:ALA:O	5:AE:64:ARG:N	2.24	0.71
7:AG:22:LEU:HD23	7:AG:22:LEU:O	1.90	0.71
1:AA:1346:A:H5'	9:AI:120:ARG:NH1	2.04	0.71
12:AL:45:PRO:HD3	12:AL:51:ALA:O	1.91	0.71
13:AM:70:LEU:O	13:AM:73:GLU:HB3	1.90	0.71
1:AA:720:C:C1'	18:AR:50:ILE:HG21	2.21	0.71
19:AS:78:ARG:CB	19:AS:81:ARG:NH1	2.53	0.71
22:AV:47:U:H3'	22:AV:47:U:O2	1.91	0.71
24:AY:142:ASN:HD21	58:AY:1000:GCP:C6	2.04	0.71
35:BA:1069:A:H1'	35:BA:1070:A:OP1	1.91	0.71
35:BA:1244:G:H4'	47:BP:11:GLY:HA2	1.72	0.71
35:BA:1500:G:N2	38:BD:99:ASP:O	2.23	0.71
35:BA:1766:U:H2'	35:BA:1767:C:H6	1.56	0.71
35:BA:209:C:C5'	35:BA:681:G:H4'	2.21	0.71
35:BA:736:C:H2'	35:BA:737:C:H6	1.56	0.71
38:BD:87:ASN:HB2	38:BD:88:ARG:NE	2.05	0.71
42:BH:35:VAL:HG12	42:BH:72:ILE:CD1	2.21	0.71
49:BR:11:ASN:O	49:BR:12:ARG:HB2	1.90	0.71
49:BR:55:ALA:HB2	49:BR:79:LEU:CD1	2.21	0.71
52:BU:86:ALA:O	52:BU:88:ILE:HG23	1.91	0.71
53:BV:52:VAL:HG22	53:BV:52:VAL:O	1.90	0.71
53:BV:91:TYR:O	53:BV:92:THR:HG23	1.90	0.71
57:BZ:42:VAL:HG13	57:BZ:43:GLU:H	1.56	0.71
57:BZ:5:LEU:O	57:BZ:59:LEU:HA	1.91	0.71
1:AA:538:G:H2'	1:AA:539:A:C8	2.24	0.71
1:AA:868:C:C2'	1:AA:869:G:H5'	2.21	0.71
1:AA:943:U:O2'	1:AA:944:G:H5'	1.89	0.71
12:AL:69:TYR:HE1	12:AL:71:PRO:HA	1.56	0.71
13:AM:14:ARG:H	13:AM:44:ARG:HH11	1.38	0.71
14:AN:13:THR:H	14:AN:14:PRO:HD3	1.55	0.71
22:AV:20:U:O2'	22:AV:21:A:H4'	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:255:PHE:HZ	24:AY:275:TRP:CH2	1.96	0.71
35:BA:253:C:H2'	35:BA:254:G:C8	2.26	0.71
35:BA:987:G:H2'	35:BA:988:A:O4'	1.91	0.71
39:BE:47:VAL:HG21	39:BE:86:PRO:CD	2.20	0.71
40:BF:103:LYS:HE3	40:BF:106:ARG:NH2	2.02	0.71
35:BA:2718:G:H5'	51:BT:100:TYR:HE2	1.53	0.71
51:BT:96:ARG:HB2	51:BT:96:ARG:NH1	2.05	0.71
1:AA:1014:A:C2	19:AS:34:TRP:CE2	2.79	0.70
1:AA:1201:A:H4'	1:AA:1202:G:O5'	1.90	0.70
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.54	0.70
1:AA:1394:A:N7	1:AA:1501:C:H4'	2.06	0.70
1:AA:50:A:N6	1:AA:361:G:H4'	2.05	0.70
1:AA:918:A:N6	1:AA:919:A:C6	2.59	0.70
3:AC:131:ARG:HH11	3:AC:166:GLU:HG3	1.56	0.70
3:AC:95:THR:O	3:AC:97:LYS:N	2.23	0.70
13:AM:29:ARG:O	13:AM:32:GLU:HB3	1.90	0.70
18:AR:63:GLN:OE1	18:AR:66:LEU:HD23	1.90	0.70
24:AY:108:CYS:CB	24:AY:136:PRO:HG2	2.21	0.70
24:AY:247:LEU:C	24:AY:249:GLY:H	1.94	0.70
24:AY:30:THR:CG2	24:AY:86:LEU:HD21	2.21	0.70
24:AY:349:MET:CE	24:AY:358:GLU:HG2	2.21	0.70
24:AY:74:VAL:HG21	24:AY:87:LEU:CD2	2.21	0.70
27:B2:12:GLU:O	27:B2:16:LEU:HG	1.91	0.70
35:BA:2125:G:H21	35:BA:2173:A:H61	1.38	0.70
35:BA:2273:A:H2'	35:BA:2274:A:C8	2.26	0.70
35:BA:272(H):C:C2'	35:BA:272(I):U:H5''	2.19	0.70
35:BA:370:G:H5''	35:BA:423:A:N6	2.06	0.70
35:BA:705:A:N1	35:BA:727:A:CI'	2.53	0.70
35:BA:950:G:H2'	35:BA:951:C:C6	2.26	0.70
38:BD:147:LEU:HD23	38:BD:183:ARG:CZ	2.21	0.70
38:BD:242:ARG:HD2	38:BD:242:ARG:N	2.06	0.70
42:BH:87:LEU:HD21	42:BH:162:ILE:HD11	1.73	0.70
46:BO:63:VAL:HG12	46:BO:106:LEU:HD11	1.73	0.70
51:BT:120:ARG:HA	51:BT:123:GLN:OE1	1.91	0.70
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.26	0.70
3:AC:131:ARG:HH11	3:AC:166:GLU:CG	2.04	0.70
3:AC:157:ILE:HG21	3:AC:164:ARG:HH21	1.56	0.70
3:AC:48:TYR:CE1	3:AC:118:GLN:NE2	2.57	0.70
7:AG:24:THR:HA	7:AG:27:ILE:HB	1.72	0.70
9:AI:47:LEU:HG	9:AI:50:LEU:HD12	1.72	0.70
13:AM:13:LYS:CA	13:AM:44:ARG:HH11	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:68:ARG:HD3	15:AO:72:ARG:HE	1.55	0.70
16:AP:1:MET:SD	16:AP:3:LYS:HE3	2.31	0.70
24:AY:174:GLY:O	24:AY:179:PHE:HA	1.90	0.70
24:AY:94:ASP:O	24:AY:97:GLU:HG3	1.90	0.70
33:B8:19:SER:CB	33:B8:21:LYS:HE3	2.19	0.70
35:BA:528:A:C2	35:BA:2043:C:H4'	2.21	0.70
35:BA:2641:G:H8	35:BA:2641:G:H5'	1.55	0.70
35:BA:586:A:H5'	40:BF:89:VAL:HG11	1.72	0.70
35:BA:892:G:H2'	35:BA:893:C:C6	2.26	0.70
5:AE:20:GLN:HG2	5:AE:21:ALA:H	1.56	0.70
7:AG:31:MET:HG2	7:AG:32:ARG:N	2.04	0.70
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.05	0.70
24:AY:104:THR:O	24:AY:105:ALA:CB	2.39	0.70
24:AY:246:PHE:CD1	24:AY:253:PRO:HD3	2.26	0.70
24:AY:315:VAL:HG12	24:AY:317:PHE:H	1.57	0.70
24:AY:380:THR:HG21	24:AY:383:GLU:HB2	1.74	0.70
24:AY:425:VAL:HG12	24:AY:445:GLN:HE21	1.54	0.70
29:B4:15:ILE:HD13	29:B4:21:VAL:HG13	1.72	0.70
35:BA:1803:A:O2'	38:BD:259:THR:HG21	1.89	0.70
35:BA:2161:C:H2'	35:BA:2162:G:H8	1.56	0.70
35:BA:2361:A:O2'	35:BA:2362:G:H5'	1.91	0.70
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.56	0.70
37:BC:120:MET:HE1	37:BC:123:VAL:HG21	1.73	0.70
39:BE:54:GLN:O	39:BE:75:VAL:CG2	2.40	0.70
45:BN:22:THR:O	45:BN:26:LEU:HB2	1.92	0.70
46:BO:34:THR:N	46:BO:37:ASP:OD2	2.23	0.70
47:BP:88:LEU:HD21	47:BP:125:VAL:CG2	2.21	0.70
47:BP:7:ARG:HB3	47:BP:8:PRO:HD3	1.72	0.70
48:BQ:56:ARG:O	48:BQ:58:PHE:N	2.24	0.70
51:BT:89:VAL:HG11	51:BT:91:ARG:HE	1.56	0.70
56:BY:28:LYS:HG2	56:BY:39:VAL:H	1.56	0.70
57:BZ:151:HIS:HB3	57:BZ:171:ILE:N	2.05	0.70
1:AA:1347:G:H3'	9:AI:108:VAL:O	1.91	0.70
1:AA:1465:C:H2'	1:AA:1466:C:C6	2.25	0.70
1:AA:778:G:H2'	1:AA:779:C:O4'	1.90	0.70
4:AD:8:VAL:C	4:AD:10:ARG:H	1.94	0.70
11:AK:91:ARG:HG3	11:AK:91:ARG:HH11	1.56	0.70
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.39	0.70
13:AM:2:ALA:N	13:AM:9:ILE:HG23	2.04	0.70
22:AV:48:C:H4'	22:AV:49:G:C5'	2.18	0.70
24:AY:11:ALA:O	24:AY:14:ARG:NH2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:170:THR:HB	24:AY:182:VAL:CG1	2.21	0.70
35:BA:1563:G:O2'	35:BA:1564:C:H5'	1.92	0.70
35:BA:1917:U:C2'	35:BA:1918:A:H5'	2.21	0.70
35:BA:2402:C:C2'	35:BA:2403:C:H5'	2.20	0.70
35:BA:2439:A:C5'	35:BA:2439:A:C8	2.74	0.70
35:BA:780:G:H2'	35:BA:782:A:N7	2.07	0.70
35:BA:813:U:H2'	35:BA:814:C:C6	2.26	0.70
38:BD:24:ILE:CG2	38:BD:83:GLU:HA	2.21	0.70
39:BE:14:ILE:HD11	39:BE:173:VAL:CG1	2.21	0.70
39:BE:56:PRO:O	39:BE:57:LYS:HE3	1.91	0.70
51:BT:8:LYS:HA	51:BT:11:GLU:OE2	1.91	0.70
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.26	0.70
1:AA:568:G:O2'	1:AA:569:C:H5'	1.91	0.70
11:AK:57:THR:CG2	11:AK:60:ALA:H	2.04	0.70
16:AP:19:ILE:HG12	16:AP:37:GLY:C	2.11	0.70
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.71	0.70
35:BA:1106:G:H4'	43:BJ:57:UNK:O	1.91	0.70
35:BA:1332:G:N2	35:BA:1610:A:C8	2.60	0.70
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.26	0.70
35:BA:1639:U:C4'	35:BA:2699:C:H4'	2.20	0.70
35:BA:616:G:C5'	40:BF:103:LYS:HZ3	2.03	0.70
35:BA:636:G:OP2	47:BP:113:LYS:NZ	2.24	0.70
36:BB:7:G:H3'	36:BB:8:U:H5''	1.72	0.70
42:BH:71:LEU:HD22	42:BH:72:ILE:HD12	1.72	0.70
56:BY:73:ARG:O	56:BY:74:PRO:O	2.09	0.70
1:AA:1034:G:O2'	1:AA:1035:A:H5'	1.92	0.70
1:AA:231:G:H2'	1:AA:232:G:C8	2.24	0.70
1:AA:326:G:C2'	1:AA:327:A:H5'	2.21	0.70
10:AJ:16:LEU:HD13	10:AJ:16:LEU:C	2.12	0.70
19:AS:43:GLU:C	19:AS:45:VAL:H	1.94	0.70
24:AY:221:GLU:CA	24:AY:225:GLN:HE22	2.03	0.70
24:AY:30:THR:O	24:AY:33:VAL:HB	1.90	0.70
26:B1:78:LYS:O	26:B1:80:LEU:N	2.25	0.70
35:BA:1779:U:C5	35:BA:1783:A:C8	2.79	0.70
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.27	0.70
35:BA:2023:G:H1	35:BA:2040:C:N4	1.89	0.70
35:BA:272(J):C:C3'	35:BA:274:G:H5''	2.22	0.70
37:BC:77:ILE:HG13	37:BC:115:ALA:HB2	1.73	0.70
37:BC:115:ALA:HB3	37:BC:120:MET:CE	2.20	0.70
38:BD:10:THR:O	38:BD:10:THR:OG1	2.05	0.70
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2415:G:O3'	47:BP:66:GLY:HA3	1.92	0.70
49:BR:62:ALA:HA	49:BR:65:LEU:HB2	1.71	0.70
1:AA:1157:A:H5'	1:AA:1158:C:C5	2.26	0.70
1:AA:1296:C:H4'	1:AA:1302:U:H5	1.57	0.70
1:AA:613:C:H2'	1:AA:614:A:C8	2.27	0.70
5:AE:34:VAL:HG12	5:AE:62:ALA:HB1	1.71	0.70
6:AF:91:VAL:HG12	6:AF:92:LYS:O	1.92	0.70
9:AI:121:ARG:HH11	9:AI:121:ARG:HG2	1.56	0.70
10:AJ:54:PHE:O	10:AJ:56:HIS:N	2.24	0.70
20:AT:13:LEU:HD23	20:AT:13:LEU:N	2.06	0.70
22:AV:17:C:C3'	22:AV:17(A):U:H5'	2.20	0.70
24:AY:109:CYS:C	24:AY:137:ILE:CG2	2.60	0.70
32:B7:17:GLY:O	32:B7:20:ALA:HB3	1.92	0.70
35:BA:1169:G:H1	35:BA:1180:C:H42	1.38	0.70
35:BA:1427:A:H1'	35:BA:1428:C:H5	1.56	0.70
35:BA:1843:C:H2'	35:BA:1844:C:C6	2.26	0.70
35:BA:2707:G:H2'	35:BA:2708:G:C8	2.25	0.70
36:BB:116:G:C2	36:BB:117:G:N7	2.60	0.70
38:BD:137:PRO:O	38:BD:140:THR:HG23	1.91	0.70
35:BA:1799:G:O6	38:BD:179:SER:HB3	1.92	0.70
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.40	0.70
40:BF:156:LEU:O	40:BF:157:VAL:HG13	1.91	0.70
42:BH:98:LEU:HD13	42:BH:102:ALA:C	2.12	0.70
35:BA:496:G:O4'	54:BW:61:ASN:ND2	2.24	0.70
56:BY:13:VAL:HG22	56:BY:73:ARG:C	2.12	0.70
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.54	0.70
1:AA:1087:G:H22	1:AA:1099:G:H1'	1.57	0.70
3:AC:88:ARG:HG3	3:AC:88:ARG:NH1	2.06	0.70
4:AD:19:LEU:HG	4:AD:21:LEU:HD21	1.74	0.70
5:AE:37:ARG:C	5:AE:38:GLN:HG2	2.11	0.70
6:AF:6:VAL:HB	6:AF:63:TYR:HB2	1.73	0.70
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.54	0.70
18:AR:34:TYR:CD2	18:AR:72:ARG:HD3	2.27	0.70
20:AT:50:GLU:HB2	20:AT:100:ILE:HD13	1.73	0.70
24:AY:241:PHE:CZ	24:AY:275:TRP:CD1	2.80	0.70
24:AY:473:TRP:CE2	24:AY:527:ARG:HG2	2.27	0.70
30:B5:49:CYS:O	30:B5:56:LYS:HD2	1.92	0.70
33:B8:54:GLU:O	33:B8:58:ILE:HG12	1.91	0.70
35:BA:1267:U:H2'	35:BA:1268:A:H8	1.57	0.70
35:BA:1375:C:H2'	35:BA:1376:C:C6	2.24	0.70
35:BA:1498:C:C2'	35:BA:1499:C:C5'	2.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1428:C:H42	35:BA:1569:A:H3'	1.53	0.70
35:BA:2102:U:H2'	35:BA:2103:C:C1'	2.22	0.70
35:BA:2127:G:H2'	35:BA:2128:C:C5	2.27	0.70
35:BA:253:C:H2'	35:BA:254:G:H8	1.56	0.70
35:BA:2781:A:C5'	35:BA:2782:G:H5'	2.21	0.70
37:BC:119:VAL:O	37:BC:123:VAL:HB	1.91	0.70
37:BC:49:ILE:HG22	37:BC:204:ALA:HB1	1.73	0.70
37:BC:217:THR:HG22	37:BC:218:MET:N	2.07	0.70
38:BD:3:VAL:HG22	38:BD:200:ASP:CG	2.12	0.70
42:BH:41:MET:HG3	42:BH:42:ARG:N	2.07	0.70
46:BO:78:ARG:NH2	51:BT:73:GLU:OE1	2.22	0.70
47:BP:131:SER:HG	47:BP:134:ALA:HB3	1.57	0.70
49:BR:30:THR:HG23	49:BR:31:HIS:CD2	2.26	0.70
51:BT:89:VAL:CG1	51:BT:91:ARG:HG3	2.22	0.70
56:BY:77:PRO:O	56:BY:99:CYS:SG	2.49	0.70
1:AA:1124:G:H2'	1:AA:1145:C:N4	2.06	0.70
1:AA:173:U:H5'	1:AA:197:A:O4'	1.92	0.70
1:AA:689:C:H2'	1:AA:690:G:O4'	1.91	0.70
1:AA:697:U:H1'	1:AA:786:G:O4'	1.92	0.70
1:AA:868:C:H2'	1:AA:869:G:H5'	1.74	0.70
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.07	0.70
3:AC:19:GLU:O	3:AC:56:ASP:HA	1.92	0.70
4:AD:96:LEU:H	4:AD:96:LEU:HD12	1.56	0.70
5:AE:128:PRO:HB2	5:AE:129:ILE:HD12	1.74	0.70
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.73	0.70
7:AG:15:ASP:HB3	7:AG:19:GLY:CA	2.22	0.70
5:AE:79:GLU:O	8:AH:104:ARG:CZ	2.39	0.70
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	1.99	0.70
13:AM:14:ARG:H	13:AM:44:ARG:NH1	1.88	0.70
22:AV:33:U:H5'	22:AV:33:U:H6	1.55	0.70
24:AY:342:ILE:O	24:AY:342:ILE:CG1	2.40	0.70
24:AY:78:PRO:HB2	24:AY:83:LEU:HD22	1.74	0.70
24:AY:89:THR:HB	24:AY:90:PRO:CD	2.21	0.70
24:AY:94:ASP:OD2	24:AY:442:GLY:HA3	1.90	0.70
31:B6:8:LYS:HD2	31:B6:27:LYS:HD3	1.73	0.70
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.73	0.70
35:BA:1625:C:C2'	35:BA:1626:G:H5'	2.21	0.70
35:BA:1847:A:C2	35:BA:1848:A:N6	2.60	0.70
35:BA:2127:G:H2'	35:BA:2128:C:C6	2.27	0.70
35:BA:1999:C:H4'	35:BA:2723:C:O2	1.92	0.70
35:BA:2848:G:O6	51:BT:54:ARG:NH2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2864:G:H2'	35:BA:2865:U:C6	2.26	0.70
35:BA:264:C:H4'	35:BA:428:A:C2	2.26	0.70
38:BD:183:ARG:CG	38:BD:270:ILE:HG23	2.21	0.70
41:BG:64:THR:HG23	41:BG:66:GLN:N	2.04	0.70
41:BG:79:ASN:O	41:BG:80:PHE:HB2	1.91	0.70
45:BN:134:ARG:HH21	45:BN:136:GLU:HB2	1.56	0.70
51:BT:121:ILE:HA	51:BT:124:ASP:HB2	1.74	0.70
1:AA:1452:C:H5''	1:AA:1456:G:OP1	1.92	0.70
1:AA:741:G:H2'	1:AA:742:G:C8	2.26	0.70
1:AA:929:G:O2'	1:AA:930:C:H5'	1.90	0.70
4:AD:15:GLU:CG	4:AD:63:LYS:HG3	2.22	0.70
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.27	0.70
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.26	0.70
22:AV:32:C:H2'	22:AV:33:U:H5''	1.74	0.70
24:AY:168:PRO:CG	24:AY:171:TRP:HZ2	2.02	0.70
24:AY:7:LEU:HD22	24:AY:292:SER:HB3	1.74	0.70
24:AY:302:LYS:O	24:AY:316:ALA:CA	2.38	0.70
26:B1:23:LYS:HD3	26:B1:28:GLY:CA	2.19	0.70
28:B3:46:ASN:HD22	28:B3:46:ASN:C	1.91	0.70
32:B7:37:LYS:O	32:B7:37:LYS:HG2	1.92	0.70
35:BA:2111:C:H1'	35:BA:2118:U:O4'	1.92	0.70
35:BA:2144:U:O2	35:BA:2147:G:O6	2.10	0.70
35:BA:2789:C:H1'	35:BA:2892:A:N1	2.07	0.70
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.92	0.70
39:BE:48:GLN:HE22	39:BE:64:LYS:HZ1	1.38	0.70
45:BN:21:LYS:HD3	45:BN:22:THR:N	2.06	0.70
35:BA:1667:G:OP1	46:BO:6:THR:HA	1.92	0.70
1:AA:1265:G:H2'	1:AA:1266:G:C8	2.27	0.69
1:AA:436:C:H5''	4:AD:156:GLU:OE1	1.92	0.69
2:AB:105:PHE:O	2:AB:107:THR:N	2.25	0.69
2:AB:189:ASP:O	2:AB:191:ASP:N	2.25	0.69
2:AB:43:ASP:OD2	2:AB:46:LYS:HE3	1.91	0.69
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.07	0.69
4:AD:59:ARG:HH11	4:AD:59:ARG:HG2	1.55	0.69
24:AY:109:CYS:C	24:AY:137:ILE:HG23	2.13	0.69
24:AY:207:VAL:O	24:AY:207:VAL:HG12	1.92	0.69
24:AY:4:SER:HB3	24:AY:7:LEU:HD12	1.73	0.69
25:B0:62:LEU:O	25:B0:63:VAL:HG13	1.92	0.69
33:B8:6:THR:HG22	33:B8:61:LEU:HD12	1.71	0.69
35:BA:893:C:O2'	35:BA:894:C:H5'	1.92	0.69
37:BC:59:ARG:HD2	37:BC:164:ARG:NE	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:213:ARG:HH12	38:BD:219:PRO:HD3	1.55	0.69
41:BG:101:ILE:HG22	41:BG:105:LYS:HZ2	1.56	0.69
45:BN:61:ARG:HG3	45:BN:61:ARG:NH1	2.05	0.69
50:BS:106:ARG:HH11	50:BS:107:GLU:C	1.95	0.69
54:BW:29:LEU:HD23	54:BW:33:ARG:HD2	1.74	0.69
54:BW:37:ARG:HG3	54:BW:37:ARG:HH11	1.57	0.69
1:AA:810:C:H2'	1:AA:811:C:O4'	1.92	0.69
2:AB:20:GLU:HG2	2:AB:189:ASP:OD1	1.92	0.69
2:AB:30:ARG:HD2	2:AB:31:TYR:CE1	2.27	0.69
17:AQ:5:VAL:HA	17:AQ:59:ILE:O	1.91	0.69
24:AY:421:GLU:HG2	24:AY:421:GLU:O	1.91	0.69
35:BA:976:C:H5'	35:BA:1156:A:N6	2.07	0.69
35:BA:770:G:N3	35:BA:1354:A:H2	1.89	0.69
35:BA:2359:C:O2'	35:BA:2360:A:H5'	1.92	0.69
35:BA:2395:C:H2'	35:BA:2396:G:O4'	1.92	0.69
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.28	0.69
35:BA:2648:C:H2'	35:BA:2649:U:C6	2.27	0.69
35:BA:2718:G:OP1	51:BT:100:TYR:HD2	1.75	0.69
35:BA:2729:G:H1'	39:BE:187:ALA:CB	2.21	0.69
35:BA:2784:C:H4'	39:BE:41:LYS:O	1.91	0.69
35:BA:976:C:N4	35:BA:987:G:H1	1.88	0.69
36:BB:94:C:H2'	36:BB:95:C:H6	1.57	0.69
37:BC:107:TRP:CZ3	37:BC:131:LEU:HD21	2.26	0.69
37:BC:128:GLY:HA2	37:BC:137:LEU:HD23	1.73	0.69
40:BF:181:LEU:HD12	40:BF:182:ASN:H	1.56	0.69
40:BF:66:PRO:HB2	40:BF:70:THR:CG2	2.22	0.69
44:BK:101:UNK:CB	44:BK:138:UNK:HA	2.22	0.69
45:BN:120:LEU:HD11	45:BN:122:VAL:CG2	2.22	0.69
52:BU:57:PHE:CD1	52:BU:60:LEU:HD12	2.27	0.69
1:AA:1053:G:H2'	1:AA:1199:U:H5	1.57	0.69
1:AA:1495:U:O2'	1:AA:1496:C:H5'	1.92	0.69
2:AB:92:TYR:CG	2:AB:151:GLY:HA3	2.27	0.69
9:AI:118:LYS:O	9:AI:119:ALA:HB2	1.92	0.69
22:AV:24:U:H2'	22:AV:25:C:H5'	1.73	0.69
26:B1:75:GLU:O	26:B1:78:LYS:HG2	1.91	0.69
28:B3:26:LEU:HB2	28:B3:28:LEU:CD2	2.22	0.69
31:B6:15:GLU:HG2	31:B6:18:ARG:CZ	2.21	0.69
31:B6:30:THR:HG22	31:B6:31:PRO:HD2	1.74	0.69
35:BA:1186:G:H2'	35:BA:1187:G:O4'	1.93	0.69
35:BA:206:U:O2'	35:BA:207:A:H5'	1.92	0.69
35:BA:2107:C:H2'	35:BA:2108:C:C6	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2310:A:O2'	35:BA:2311:A:C5'	2.38	0.69
35:BA:2616:C:H2'	35:BA:2617:C:H6	1.57	0.69
28:B3:21:ALA:O	35:BA:849:A:C2	2.45	0.69
35:BA:869:G:O2'	35:BA:870:A:H5'	1.93	0.69
38:BD:60:ARG:CZ	38:BD:87:ASN:HA	2.22	0.69
41:BG:85:GLY:O	41:BG:86:MET:HB3	1.92	0.69
46:BO:47:ILE:HG12	46:BO:48:PRO:HD2	1.75	0.69
50:BS:15:ARG:HH11	50:BS:15:ARG:HB2	1.56	0.69
1:AA:155:C:H2'	1:AA:156:G:H8	1.57	0.69
3:AC:55:VAL:HG22	3:AC:68:VAL:CG1	2.21	0.69
24:AY:225:GLN:CA	24:AY:228:ARG:HB2	2.22	0.69
24:AY:78:PRO:CB	24:AY:83:LEU:HD22	2.22	0.69
35:BA:1005:C:O2'	35:BA:1006:C:H5'	1.92	0.69
35:BA:1028:A:H2'	35:BA:1029:A:H8	1.56	0.69
35:BA:1499:C:O2'	35:BA:1500:G:H5'	1.91	0.69
35:BA:1605:C:H2'	35:BA:1606:G:H5'	1.74	0.69
35:BA:1654:A:N6	35:BA:2006:C:O4'	2.25	0.69
36:BB:82:G:N1	36:BB:96:U:N3	2.40	0.69
39:BE:199:ARG:CB	39:BE:199:ARG:HH11	2.05	0.69
42:BH:107:VAL:O	42:BH:107:VAL:HG23	1.92	0.69
42:BH:69:ARG:O	42:BH:73:ALA:CB	2.40	0.69
51:BT:62:THR:HG22	51:BT:75:ILE:CG2	2.21	0.69
56:BY:20:TYR:HD2	56:BY:23:ARG:HG3	1.56	0.69
1:AA:632:A:H3'	1:AA:633:G:C8	2.27	0.69
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.08	0.69
13:AM:86:CYS:SG	13:AM:88:ARG:HB3	2.33	0.69
14:AN:4:LYS:HB2	14:AN:4:LYS:NZ	2.08	0.69
15:AO:33:THR:HG23	15:AO:34:LEU:N	2.08	0.69
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.57	0.69
24:AY:272:LEU:HD12	24:AY:273:VAL:HG23	1.73	0.69
28:B3:35:ARG:CG	28:B3:35:ARG:HH11	2.06	0.69
33:B8:52:LYS:N	33:B8:53:PRO:HD2	2.06	0.69
35:BA:1141:U:H4'	35:BA:1142(A):A:C8	2.28	0.69
35:BA:1683:C:H2'	35:BA:1684:C:C6	2.27	0.69
35:BA:2072:G:H1'	35:BA:2440:C:N4	2.08	0.69
35:BA:2346:A:H5'	35:BA:2383:G:O4'	1.91	0.69
35:BA:2807:G:H1	35:BA:2893:G:H1	1.39	0.69
35:BA:324:A:O2'	35:BA:325:G:H5'	1.92	0.69
37:BC:100:ILE:HG23	37:BC:127:MET:CG	2.21	0.69
39:BE:144:ARG:CG	39:BE:145:LYS:H	2.05	0.69
47:BP:146:VAL:HG22	47:BP:147:LEU:N	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:35:ILE:O	50:BS:35:ILE:HG12	1.92	0.69
52:BU:57:PHE:HA	52:BU:60:LEU:HB2	1.74	0.69
56:BY:45:VAL:HG13	56:BY:62:GLU:OE1	1.92	0.69
1:AA:1325:C:N4	1:AA:1326:C:H41	1.91	0.69
1:AA:1493:A:O2'	1:AA:1494:G:C8	2.45	0.69
1:AA:525:C:H2'	1:AA:526:C:C6	2.28	0.69
1:AA:687:A:H1'	1:AA:688:G:O4'	1.92	0.69
10:AJ:55:LYS:H	10:AJ:55:LYS:HE3	1.56	0.69
24:AY:62:MET:HG2	24:AY:451:ALA:CB	2.21	0.69
19:AS:23:ASN:HA	29:B4:47:GLN:CB	2.22	0.69
32:B7:40:TRP:CD2	35:BA:459:U:H5'	2.27	0.69
34:B9:36:GLN:HE22	35:BA:1031:G:N2	1.87	0.69
35:BA:1571:A:H2'	35:BA:1572:A:C8	2.27	0.69
35:BA:1915:U:H2'	35:BA:1916:A:H5'	1.70	0.69
35:BA:2078:C:O2'	35:BA:2079:U:H5'	1.92	0.69
35:BA:1782:C:H1'	35:BA:2609:U:H5''	1.74	0.69
35:BA:2777:G:H5''	35:BA:2778:A:C5'	2.23	0.69
35:BA:774:A:C2	35:BA:787:U:O2'	2.45	0.69
37:BC:128:GLY:CA	37:BC:137:LEU:HD23	2.22	0.69
35:BA:729:G:C6	38:BD:208:LYS:HB2	2.27	0.69
42:BH:66:GLY:HA2	42:BH:69:ARG:CD	2.22	0.69
46:BO:24:VAL:HG21	46:BO:30:ALA:O	1.93	0.69
49:BR:89:ASP:O	49:BR:91:GLN:HG3	1.91	0.69
51:BT:13:ARG:HA	51:BT:13:ARG:NE	2.08	0.69
56:BY:87:LYS:C	56:BY:88:LYS:HD2	2.13	0.69
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.74	0.69
1:AA:1228:C:C2'	1:AA:1229:A:H5'	2.22	0.69
1:AA:199:G:H2'	1:AA:200:G:H8	1.57	0.69
1:AA:972:C:O2'	1:AA:973:G:H5'	1.92	0.69
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.55	0.69
3:AC:64:VAL:HG12	3:AC:65:ALA:N	2.07	0.69
4:AD:5:ILE:CA	4:AD:115:ARG:HH12	2.05	0.69
16:AP:5:ARG:HE	16:AP:22:THR:CG2	2.05	0.69
24:AY:470:THR:HG21	24:AY:472:ARG:NH2	2.03	0.69
30:B5:28:PRO:CD	54:BW:35:ILE:HG23	2.22	0.69
31:B6:18:ARG:HG3	31:B6:19:ARG:H	1.58	0.69
35:BA:1406:U:H6	35:BA:1406:U:OP2	1.75	0.69
35:BA:143(A):C:H2'	35:BA:144:C:C6	2.27	0.69
35:BA:1614:A:N1	54:BW:87:PRO:HB3	2.08	0.69
35:BA:15:G:O2'	35:BA:16:G:H5'	1.92	0.69
35:BA:2092:U:C4'	35:BA:2093:G:H5''	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:181:GLU:HG3	38:BD:272:ALA:HB1	1.75	0.69
45:BN:62:VAL:HG13	45:BN:62:VAL:O	1.91	0.69
47:BP:38:GLN:O	47:BP:39:LYS:HB2	1.93	0.69
47:BP:59:LEU:HD23	47:BP:59:LEU:O	1.92	0.69
49:BR:20:LEU:O	49:BR:23:ASN:N	2.25	0.69
51:BT:132:LYS:C	51:BT:134:GLU:H	1.96	0.69
57:BZ:48:PHE:HD1	57:BZ:52:SER:HA	1.58	0.69
1:AA:1117:G:H5'	1:AA:1117:G:H8	1.56	0.69
2:AB:51:LEU:HD23	2:AB:55:PHE:CE2	2.20	0.69
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.73	0.69
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.72	0.69
7:AG:118:VAL:CG2	7:AG:119:ARG:N	2.56	0.69
10:AJ:16:LEU:HD11	10:AJ:70:ARG:CG	2.22	0.69
12:AL:53:ARG:HG2	12:AL:53:ARG:HH11	1.58	0.69
20:AT:36:LEU:CD1	20:AT:59:ALA:HB2	2.22	0.69
24:AY:6:TYR:O	24:AY:10:VAL:CG2	2.40	0.69
24:AY:125:LYS:HD3	24:AY:128:GLU:OE1	1.91	0.69
35:BA:1047:G:H2'	35:BA:1110:G:H21	1.58	0.69
35:BA:999:U:H5	35:BA:1154:G:C4	2.10	0.69
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	1.92	0.69
35:BA:464:U:H2'	35:BA:465:G:O4'	1.92	0.69
37:BC:214:VAL:CG2	37:BC:224:ILE:HD13	2.22	0.69
37:BC:32:LEU:HD11	37:BC:222:VAL:HG22	1.75	0.69
1:AA:773:G:H5''	38:BD:203:ASN:ND2	2.07	0.69
35:BA:1789:A:H5''	38:BD:221:VAL:HG12	1.75	0.69
39:BE:101:ARG:NH1	39:BE:171:GLU:HG3	2.08	0.69
47:BP:47:ASP:CG	47:BP:49:ARG:H	1.95	0.69
50:BS:29:PHE:HD1	50:BS:29:PHE:C	1.95	0.69
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.28	0.69
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.72	0.69
2:AB:103:THR:HG23	2:AB:176:GLU:OE1	1.92	0.69
4:AD:98:GLU:HA	4:AD:103:ASN:ND2	2.08	0.69
9:AI:26:VAL:HG13	9:AI:61:ALA:CB	2.20	0.69
10:AJ:6:ILE:HD12	10:AJ:8:LEU:HD11	1.75	0.69
12:AL:76:ASN:O	12:AL:77:LEU:HD23	1.93	0.69
24:AY:144:LEU:HD12	24:AY:179:PHE:CE1	2.27	0.69
24:AY:198:GLY:C	24:AY:262:ASN:HD21	1.96	0.69
35:BA:1453:U:OP1	49:BR:77:ARG:HD3	1.92	0.69
35:BA:1776:G:H8	35:BA:1776:G:O5'	1.76	0.69
35:BA:296:C:O2'	35:BA:297:C:H5'	1.92	0.69
37:BC:189:ILE:HD13	37:BC:214:VAL:HG21	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:226:MET:HE2	38:BD:230:ASP:HB3	1.75	0.69
35:BA:637:A:OP2	47:BP:115:LEU:HB2	1.92	0.69
52:BU:28:ARG:NH1	52:BU:38:THR:HG23	2.00	0.69
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.74	0.69
1:AA:542:G:O3'	4:AD:14:ARG:NH2	2.25	0.69
1:AA:826:C:C4	1:AA:827:U:C5	2.81	0.69
1:AA:975:A:O2'	14:AN:32:SER:HB3	1.93	0.69
3:AC:153:VAL:O	3:AC:154:SER:HB3	1.92	0.69
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.57	0.69
11:AK:43:SER:HB2	11:AK:71:LYS:HZ1	1.58	0.69
16:AP:45:THR:CG2	16:AP:47:ASP:HB3	2.22	0.69
35:BA:1102:C:H2'	35:BA:1103:A:C8	2.27	0.69
35:BA:443:A:H2	35:BA:1245:G:N3	1.91	0.69
35:BA:201:C:C2'	35:BA:202:U:H5'	2.23	0.69
35:BA:221:A:H4'	35:BA:222:A:O5'	1.93	0.69
35:BA:2535:G:H2'	35:BA:2536:G:C8	2.27	0.69
27:B2:50:ILE:CG2	35:BA:61:G:H5'	2.15	0.69
35:BA:94(A):G:H2'	35:BA:95:G:O4'	1.93	0.69
36:BB:98:G:C5	36:BB:99:G:C8	2.81	0.69
37:BC:47:LEU:CD1	37:BC:47:LEU:H	2.06	0.69
38:BD:26:LYS:O	38:BD:27:THR:HG23	1.93	0.69
38:BD:33:LEU:CG	38:BD:34:VAL:HG13	2.22	0.69
45:BN:3:THR:HG22	45:BN:4:TYR:H	1.58	0.69
56:BY:20:TYR:CD2	56:BY:23:ARG:HG3	2.27	0.69
1:AA:1118:C:N4	1:AA:1155:G:H1	1.90	0.69
1:AA:285:G:H2'	1:AA:286:G:H8	1.58	0.69
2:AB:8:LYS:NZ	2:AB:217:ARG:CZ	2.56	0.69
8:AH:9:MET:O	8:AH:13:ILE:HG12	1.93	0.69
24:AY:16:PHE:CE2	24:AY:84:VAL:CG1	2.75	0.69
24:AY:331:LEU:CB	24:AY:379:PHE:CE2	2.69	0.69
24:AY:443:VAL:O	24:AY:445:GLN:N	2.25	0.69
35:BA:1956:U:H2'	35:BA:1957:C:H5'	1.75	0.69
35:BA:225:A:O2'	35:BA:257:A:H4'	1.92	0.69
35:BA:2443:C:C2'	35:BA:2444:G:H5'	2.22	0.69
35:BA:472:A:H8	35:BA:472:A:H5'	1.58	0.69
35:BA:657:U:H2'	35:BA:658:C:C6	2.27	0.69
35:BA:884:C:H3'	35:BA:885:C:C5'	2.22	0.69
35:BA:962:G:H2'	35:BA:963:U:O4'	1.92	0.69
35:BA:970:C:H2'	35:BA:971:C:H6	1.58	0.69
38:BD:73:VAL:O	38:BD:75:ILE:HD12	1.93	0.69
39:BE:56:PRO:HD2	39:BE:58:ARG:NH1	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:138:GLN:NE2	41:BG:144:ILE:HD11	2.07	0.69
51:BT:20:PRO:CD	51:BT:85:LYS:HB2	2.17	0.69
51:BT:91:ARG:HG2	51:BT:116:ALA:HA	1.75	0.69
52:BU:106:PHE:O	52:BU:110:VAL:HG23	1.93	0.69
52:BU:13:LYS:HD3	52:BU:13:LYS:H	1.58	0.69
56:BY:13:VAL:HG22	56:BY:73:ARG:O	1.93	0.69
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.27	0.68
4:AD:107:ARG:HH12	4:AD:114:ARG:NH2	1.90	0.68
7:AG:139:GLU:O	7:AG:143:ARG:N	2.26	0.68
8:AH:95:VAL:HG22	8:AH:133:LEU:HD13	1.75	0.68
12:AL:41:ARG:O	12:AL:42:THR:HB	1.92	0.68
17:AQ:13:ASP:C	17:AQ:15:MET:H	1.95	0.68
18:AR:38:GLU:HG2	18:AR:39:VAL:H	1.57	0.68
19:AS:49:ILE:HD12	19:AS:49:ILE:N	2.07	0.68
20:AT:18:GLN:HG2	20:AT:22:ARG:HH11	1.58	0.68
21:AU:18:TYR:HB3	21:AU:22:ARG:O	1.93	0.68
22:AV:49:G:H21	22:AV:50:U:H1'	1.57	0.68
24:AY:297:THR:HG22	24:AY:321:VAL:HB	1.76	0.68
24:AY:449:VAL:HG23	24:AY:463:TYR:OH	1.93	0.68
25:B0:20:ARG:NH2	35:BA:2271:G:H4'	2.08	0.68
35:BA:1136:G:N3	35:BA:2038:G:H4'	2.08	0.68
35:BA:1316:U:H3	35:BA:1336:A:H61	1.41	0.68
35:BA:1569:A:H2'	35:BA:1570:A:H8	1.55	0.68
35:BA:199:A:C2	35:BA:2433:A:N3	2.61	0.68
35:BA:76:C:H2'	35:BA:77:C:C6	2.28	0.68
35:BA:566:U:H4'	35:BA:809:G:OP2	1.93	0.68
35:BA:886:C:H2'	35:BA:887:A:O5'	1.93	0.68
35:BA:917:A:C2	36:BB:79:C:O2	2.45	0.68
39:BE:4:ILE:CG2	39:BE:198:VAL:HB	2.22	0.68
39:BE:78:LEU:O	39:BE:79:ARG:HD2	1.93	0.68
40:BF:126:VAL:HG23	40:BF:127:GLU:H	1.56	0.68
40:BF:81:PRO:HG2	40:BF:82:ILE:H	1.58	0.68
41:BG:11:TYR:O	41:BG:15:VAL:HB	1.92	0.68
42:BH:38:SER:HB2	42:BH:64:LEU:HD11	1.75	0.68
45:BN:23:LEU:HA	45:BN:26:LEU:HB3	1.73	0.68
45:BN:27:ALA:CA	45:BN:30:ILE:HD12	2.23	0.68
47:BP:101:VAL:CG2	47:BP:102:ARG:N	2.56	0.68
35:BA:246:C:OP1	47:BP:71:VAL:HB	1.92	0.68
50:BS:53:SER:N	50:BS:55:ALA:HB3	2.08	0.68
53:BV:75:PHE:HD2	53:BV:82:ARG:HG3	1.57	0.68
1:AA:1320:C:H5'	1:AA:1320:C:C6	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1392:G:H21	1:AA:1502:A:H8	1.41	0.68
2:AB:101:MET:HB2	2:AB:102:LEU:CD1	2.22	0.68
24:AY:342:ILE:O	24:AY:342:ILE:HG13	1.93	0.68
24:AY:30:THR:HG23	24:AY:86:LEU:CD2	2.22	0.68
35:BA:999:U:C5	35:BA:1154:G:C5	2.81	0.68
35:BA:117:G:H5'	35:BA:126:A:N3	2.08	0.68
35:BA:2287:A:H61	35:BA:2344:U:H3	1.38	0.68
35:BA:373:U:H2'	35:BA:374:A:C8	2.26	0.68
42:BH:32:GLU:O	42:BH:33:LEU:HD23	1.93	0.68
45:BN:14:VAL:CG1	45:BN:137:LYS:HG3	2.22	0.68
51:BT:131:ALA:C	51:BT:133:GLU:H	1.94	0.68
51:BT:32:TYR:CG	51:BT:81:PRO:HB2	2.28	0.68
51:BT:60:THR:CG2	51:BT:77:PRO:HA	2.22	0.68
53:BV:88:ARG:O	53:BV:90:PRO:HD3	1.93	0.68
35:BA:1340:U:OP2	55:BX:78:LYS:NZ	2.25	0.68
1:AA:1175:G:O2'	1:AA:1176:A:H5'	1.93	0.68
1:AA:1285:A:H4'	1:AA:1286:A:O5'	1.94	0.68
1:AA:918:A:C6	1:AA:919:A:C6	2.82	0.68
2:AB:121:LEU:HG	2:AB:126:GLU:HB2	1.75	0.68
2:AB:141:GLU:O	2:AB:145:LEU:HB2	1.92	0.68
2:AB:115:LEU:HD13	2:AB:145:LEU:CD1	2.22	0.68
2:AB:44:LEU:HA	2:AB:47:THR:OG1	1.93	0.68
6:AF:87:ARG:CG	6:AF:87:ARG:NH1	2.55	0.68
14:AN:40:CYS:O	14:AN:43:CYS:N	2.25	0.68
17:AQ:57:VAL:HG23	17:AQ:58:GLU:O	1.93	0.68
19:AS:22:LEU:O	29:B4:48:ARG:N	2.25	0.68
19:AS:47:HIS:O	19:AS:62:ILE:CG2	2.42	0.68
24:AY:173:ILE:HG22	24:AY:180:LYS:HB2	1.75	0.68
24:AY:272:LEU:O	24:AY:276:ALA:CB	2.41	0.68
35:BA:1094:U:H1'	35:BA:1097:U:H5	1.58	0.68
35:BA:1539:G:H2'	35:BA:1540:U:O4'	1.94	0.68
35:BA:1772:G:N2	35:BA:1774:C:H5''	2.08	0.68
33:B8:30:ARG:NH2	35:BA:2419:U:O4	2.26	0.68
35:BA:954:G:H5''	48:BQ:13:GLN:HB3	1.74	0.68
36:BB:7:G:C3'	36:BB:8:U:H5''	2.24	0.68
38:BD:92:ILE:HG22	38:BD:106:ILE:HG12	1.74	0.68
35:BA:2638:G:OP2	39:BE:82:ARG:NH2	2.26	0.68
41:BG:39:ILE:CD1	41:BG:157:ILE:HG12	2.22	0.68
51:BT:33:LYS:HG3	51:BT:43:GLN:CB	2.21	0.68
52:BU:17:ILE:HG23	52:BU:39:LEU:HD11	1.72	0.68
55:BX:14:SER:OG	55:BX:17:ALA:HB2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:875:G:H4'	57:BZ:170:THR:OG1	1.93	0.68
1:AA:106:C:O2'	1:AA:379:C:H5''	1.93	0.68
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.58	0.68
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.23	0.68
1:AA:122:G:H2'	1:AA:123:C:O4'	1.93	0.68
1:AA:507:C:P	1:AA:508:C:H3'	2.33	0.68
2:AB:115:LEU:CB	2:AB:145:LEU:HD12	2.24	0.68
2:AB:153:ARG:CG	2:AB:154:LEU:N	2.55	0.68
2:AB:178:ARG:NH1	2:AB:178:ARG:HG3	2.09	0.68
2:AB:224:GLN:O	2:AB:227:GLY:N	2.27	0.68
1:AA:939:G:P	7:AG:95:ARG:HH22	2.15	0.68
9:AI:121:ARG:NH1	9:AI:121:ARG:HG2	2.09	0.68
1:AA:754:C:C4'	15:AO:72:ARG:HH12	2.06	0.68
19:AS:8:GLY:O	19:AS:9:VAL:HG23	1.93	0.68
24:AY:29:ILE:HG12	24:AY:259:ALA:CB	2.24	0.68
25:B0:51:VAL:CG2	25:B0:80:HIS:HA	2.22	0.68
35:BA:1471:A:N6	35:BA:1519:G:H2'	2.08	0.68
35:BA:2186:G:H2'	35:BA:2187:G:C8	2.28	0.68
25:B0:33:ALA:O	35:BA:2352:A:H2	1.76	0.68
35:BA:2861:G:O2'	35:BA:2862:G:H5'	1.93	0.68
35:BA:690:G:H21	38:BD:43:ARG:HH22	1.40	0.68
38:BD:24:ILE:HD13	38:BD:83:GLU:C	2.13	0.68
48:BQ:36:ALA:HB2	48:BQ:103:MET:HE3	1.74	0.68
52:BU:96:ALA:C	52:BU:98:LEU:H	1.97	0.68
53:BV:99:ILE:N	53:BV:99:ILE:HD13	2.08	0.68
54:BW:5:ALA:HB2	54:BW:54:ALA:HB2	1.74	0.68
1:AA:1192:C:O2'	5:AE:25:ARG:NH2	2.26	0.68
1:AA:1407:C:C2'	1:AA:1408:A:H5''	2.23	0.68
1:AA:706:A:C1'	11:AK:29:ILE:HD11	2.23	0.68
1:AA:719:C:C2	18:AR:50:ILE:HG12	2.28	0.68
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.59	0.68
8:AH:2:LEU:HD21	8:AH:8:ASP:CB	2.23	0.68
9:AI:98:PRO:HB2	9:AI:99:LEU:HD22	1.74	0.68
1:AA:760:G:N2	17:AQ:94:ASN:HB3	2.07	0.68
20:AT:75:ASN:O	20:AT:79:ARG:HB2	1.94	0.68
24:AY:448:VAL:O	24:AY:452:ARG:HG2	1.93	0.68
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.59	0.68
35:BA:1494:A:N3	35:BA:1494:A:H5'	2.08	0.68
35:BA:1628:G:H2'	35:BA:1629:U:H6	1.58	0.68
22:AV:3:C:O2	35:BA:1851:U:H5''	1.94	0.68
35:BA:2110:G:H1	35:BA:2178:C:H41	1.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2181:G:O2'	35:BA:2182:G:H5'	1.94	0.68
35:BA:2616:C:H2'	35:BA:2617:C:C6	2.29	0.68
35:BA:2644:G:H2'	35:BA:2645:G:C8	2.28	0.68
35:BA:744:G:O2'	35:BA:745:G:H5'	1.94	0.68
35:BA:780:G:H21	35:BA:783:A:N6	1.91	0.68
35:BA:947:G:H2'	35:BA:948:G:H8	1.58	0.68
35:BA:1567:A:H5'	38:BD:58:HIS:HD2	1.58	0.68
38:BD:94:LEU:HD22	38:BD:95:LEU:N	2.07	0.68
45:BN:23:LEU:HB2	45:BN:99:LEU:HD21	1.76	0.68
48:BQ:12:GLN:OE1	48:BQ:72:LYS:HG3	1.93	0.68
52:BU:112:ARG:HH12	53:BV:46:VAL:CG1	2.00	0.68
55:BX:39:ILE:HG21	55:BX:54:VAL:HG11	1.75	0.68
56:BY:37:VAL:HG22	56:BY:67:LEU:O	1.92	0.68
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.29	0.68
2:AB:7:VAL:HG13	2:AB:11:LEU:CD1	2.23	0.68
3:AC:134:ILE:O	3:AC:138:VAL:HG12	1.93	0.68
15:AO:4:THR:CG2	15:AO:6:GLU:HB2	2.23	0.68
16:AP:11:SER:OG	16:AP:14:ASN:HB3	1.94	0.68
16:AP:67:THR:H	16:AP:70:ALA:HB3	1.58	0.68
27:B2:10:LEU:HD21	27:B2:59:ARG:CD	2.24	0.68
29:B4:36:CYS:O	29:B4:39:CYS:HB2	1.93	0.68
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.24	0.68
33:B8:4:MET:O	33:B8:62:LEU:HD11	1.93	0.68
35:BA:104:U:H2'	35:BA:105:C:H5'	1.76	0.68
35:BA:1331:A:HO2'	35:BA:1332:G:H8	1.39	0.68
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.21	0.68
35:BA:2157:G:O2'	35:BA:2158:A:H5'	1.93	0.68
35:BA:2422:A:H4'	35:BA:2423:U:OP1	1.94	0.68
35:BA:893:C:H2'	35:BA:894:C:H5'	1.73	0.68
37:BC:137:LEU:HD22	37:BC:138:PRO:CD	2.23	0.68
38:BD:160:GLY:N	38:BD:196:VAL:HG12	2.09	0.68
39:BE:117:MET:O	39:BE:121:ASN:HA	1.94	0.68
41:BG:52:ILE:HG12	41:BG:53:LEU:N	2.08	0.68
36:BB:41:U:N3	41:BG:70:VAL:HB	2.07	0.68
45:BN:65:LYS:HD3	45:BN:69:GLN:HE21	1.58	0.68
51:BT:65:LYS:HZ1	51:BT:66:VAL:H	1.38	0.68
52:BU:47:TYR:HA	52:BU:50:ARG:HD2	1.75	0.68
35:BA:483:A:O3'	56:BY:49:VAL:HG22	1.94	0.68
56:BY:86:ARG:NH2	56:BY:95:LYS:HZ3	1.92	0.68
1:AA:1266:G:N2	1:AA:1268:A:C5'	2.55	0.68
3:AC:157:ILE:CB	3:AC:164:ARG:HH21	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:72:ARG:O	7:AG:91:VAL:HG12	1.93	0.68
19:AS:51:VAL:HB	19:AS:58:VAL:HG22	1.75	0.68
22:AV:62:C:C2'	22:AV:63:G:H5''	2.23	0.68
27:B2:9:GLN:HG2	27:B2:56:GLN:NE2	2.09	0.68
34:B9:36:GLN:NE2	35:BA:1031:G:N2	2.38	0.68
35:BA:140:G:C1'	35:BA:141:A:H2	2.00	0.68
35:BA:144:C:H2'	35:BA:145:G:C8	2.29	0.68
35:BA:1924:C:O2'	35:BA:1925:C:C6	2.46	0.68
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.93	0.68
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.75	0.68
35:BA:2306:C:N4	35:BA:2311:A:N7	2.41	0.68
35:BA:2504:U:H6	35:BA:2504:U:O5'	1.76	0.68
35:BA:2672:G:H3'	35:BA:2673:G:H5''	1.74	0.68
35:BA:2807:G:C2'	35:BA:2808:U:H5''	2.24	0.68
35:BA:779:U:O2'	35:BA:780:G:H5'	1.93	0.68
35:BA:880:G:H1	35:BA:897:C:N4	1.88	0.68
38:BD:79:VAL:HG23	38:BD:114:GLY:H	1.58	0.68
38:BD:24:ILE:HD13	38:BD:84:TYR:N	2.08	0.68
38:BD:92:ILE:HA	38:BD:107:ALA:N	2.08	0.68
40:BF:154:VAL:HG12	40:BF:155:LEU:N	2.08	0.68
40:BF:19:GLU:O	40:BF:20:LEU:HD23	1.92	0.68
45:BN:69:GLN:O	45:BN:71:ILE:HG13	1.94	0.68
46:BO:6:THR:O	46:BO:20:MET:HA	1.93	0.68
35:BA:1654:A:P	49:BR:3:HIS:HB2	2.33	0.68
53:BV:40:LEU:CD2	53:BV:47:VAL:HG22	2.22	0.68
1:AA:1325:C:OP1	21:AU:15:ARG:NH2	2.26	0.68
1:AA:1327:C:H2'	1:AA:1328:C:H6	1.58	0.68
1:AA:619:U:C2	4:AD:135:LEU:HD11	2.28	0.68
2:AB:130:ARG:HA	2:AB:130:ARG:HE	1.57	0.68
2:AB:193:ASP:C	2:AB:193:ASP:OD1	2.31	0.68
14:AN:50:LYS:O	14:AN:52:GLN:HG2	1.94	0.68
19:AS:63:THR:HG22	19:AS:66:MET:CG	2.24	0.68
20:AT:48:LYS:O	20:AT:52:ALA:HB2	1.92	0.68
24:AY:401:ILE:HD13	24:AY:462:VAL:O	1.93	0.68
32:B7:7:PRO:HA	35:BA:686:G:C8	2.28	0.68
35:BA:1058:G:H2'	35:BA:1059:G:C5'	2.24	0.68
35:BA:1427:A:C1'	35:BA:1428:C:C5	2.77	0.68
22:AV:76:A:P	35:BA:2432:A:H4'	2.34	0.68
35:BA:61:G:H1	35:BA:94:C:N4	1.91	0.68
35:BA:972:G:H2'	35:BA:973:A:N7	2.09	0.68
36:BB:17:C:O2'	36:BB:18:G:H5'	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:113:PHE:CE1	39:BE:158:GLY:HA2	2.28	0.68
39:BE:195:LEU:HD11	39:BE:197:ILE:CG2	2.23	0.68
40:BF:65:TRP:CH2	40:BF:72:ARG:HB3	2.29	0.68
40:BF:7:TYR:OH	40:BF:10:PRO:HB3	1.93	0.68
47:BP:97:PRO:HA	47:BP:100:LEU:HD23	1.76	0.68
47:BP:38:GLN:OE1	47:BP:41:ARG:HD3	1.94	0.68
48:BQ:67:ARG:HH11	48:BQ:67:ARG:CB	2.06	0.68
49:BR:44:LEU:O	49:BR:44:LEU:HD13	1.94	0.68
50:BS:49:VAL:HG12	50:BS:50:SER:H	1.57	0.68
48:BQ:140:ALA:HB1	57:BZ:99:TYR:CD2	2.28	0.68
1:AA:1220:G:H21	19:AS:54:GLY:CA	2.06	0.68
1:AA:978:A:N6	1:AA:1318:A:N7	2.42	0.68
1:AA:910:C:O2'	1:AA:911:U:H5'	1.94	0.68
2:AB:187:LEU:HD11	2:AB:204:ASN:O	1.93	0.68
3:AC:11:ARG:NH2	3:AC:182:ILE:HD12	2.08	0.68
3:AC:53:ALA:O	3:AC:54:ARG:O	2.12	0.68
8:AH:85:ARG:NH1	8:AH:87:SER:O	2.27	0.68
9:AI:118:LYS:O	9:AI:119:ALA:CB	2.42	0.68
10:AJ:69:ASN:O	10:AJ:70:ARG:HD3	1.94	0.68
10:AJ:75:ILE:O	10:AJ:77:PRO:HD3	1.94	0.68
1:AA:1228:C:OP1	13:AM:108:ARG:NH2	2.27	0.68
13:AM:75:ALA:CB	13:AM:79:LYS:HE3	2.22	0.68
24:AY:27:THR:HG1	24:AY:69:SER:HG	1.35	0.68
24:AY:331:LEU:CB	24:AY:379:PHE:HE2	1.99	0.68
24:AY:446:PHE:O	24:AY:449:VAL:CG2	2.42	0.68
27:B2:43:GLN:HG2	27:B2:44:LEU:N	2.06	0.68
28:B3:6:VAL:HA	28:B3:55:ARG:O	1.93	0.68
29:B4:40:HIS:HD2	29:B4:42:PHE:CD1	2.11	0.68
35:BA:1498:C:C2'	35:BA:1499:C:H5''	2.23	0.68
35:BA:1537:G:H2'	35:BA:1538:G:C8	2.29	0.68
35:BA:2248:C:H2'	35:BA:2249:U:O4'	1.94	0.68
35:BA:977:G:H2'	35:BA:978:G:H8	1.59	0.68
37:BC:3:HIS:HB3	37:BC:7:TYR:CD2	2.28	0.68
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.94	0.68
42:BH:41:MET:HE2	42:BH:43:VAL:HG13	1.75	0.68
45:BN:36:GLY:H	45:BN:49:GLY:HA2	1.58	0.68
46:BO:24:VAL:O	46:BO:26:LYS:N	2.26	0.68
48:BQ:52:VAL:O	48:BQ:55:VAL:HG13	1.94	0.68
52:BU:36:ARG:CB	52:BU:36:ARG:NH1	2.57	0.68
54:BW:18:ARG:NH1	54:BW:76:VAL:O	2.25	0.68
35:BA:64:A:O3'	55:BX:71:GLY:HA3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:54:LYS:HE3	56:BY:55:TYR:CE2	2.28	0.68
1:AA:40:C:H2'	1:AA:41:G:H8	1.59	0.68
1:AA:977:A:C2'	1:AA:977:A:N3	2.57	0.68
16:AP:71:ARG:HA	16:AP:74:LEU:HD12	1.75	0.68
24:AY:445:GLN:HA	24:AY:448:VAL:HG23	1.76	0.68
24:AY:399:ARG:HA	24:AY:466:VAL:CG2	2.24	0.68
24:AY:78:PRO:HA	24:AY:83:LEU:HA	1.76	0.68
27:B2:41:ILE:HG13	27:B2:42:GLY:H	1.59	0.68
35:BA:1814:G:H4'	38:BD:51:VAL:HG21	1.76	0.68
35:BA:2787:C:O2	39:BE:61:ARG:NH1	2.27	0.68
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.25	0.68
35:BA:631:A:H5''	47:BP:65:ARG:HH11	1.56	0.68
35:BA:631:A:H2'	35:BA:632:A:O4'	1.94	0.68
36:BB:111:G:O2'	36:BB:112:U:H5'	1.93	0.68
36:BB:82:G:H2'	36:BB:83:G:H8	1.58	0.68
38:BD:169:GLU:O	38:BD:172:TYR:N	2.27	0.68
47:BP:47:ASP:HB2	47:BP:51:PHE:HD2	1.58	0.68
49:BR:48:VAL:CA	49:BR:51:LEU:HB2	2.24	0.68
52:BU:17:ILE:N	52:BU:17:ILE:HD12	2.08	0.68
52:BU:65:ILE:HD11	52:BU:96:ALA:HB3	1.76	0.68
57:BZ:119:GLU:HG3	57:BZ:122:ARG:NE	2.09	0.68
1:AA:1117:G:N1	1:AA:1184:G:C6	2.62	0.67
1:AA:1118:C:N3	1:AA:1155:G:N2	2.39	0.67
1:AA:59:A:H1'	1:AA:354:G:N2	2.09	0.67
1:AA:398:C:H3'	1:AA:398:C:H6	1.58	0.67
1:AA:807:A:H2'	1:AA:808:C:H6	1.58	0.67
1:AA:833:U:HO2'	1:AA:834:C:H6	1.40	0.67
1:AA:881:G:O2'	1:AA:882:C:H5'	1.94	0.67
2:AB:200:ILE:HD12	2:AB:200:ILE:H	1.59	0.67
5:AE:115:VAL:O	5:AE:116:THR:HG23	1.94	0.67
7:AG:118:VAL:CG2	7:AG:119:ARG:H	2.07	0.67
8:AH:119:LEU:CD2	8:AH:123:GLU:HB3	2.24	0.67
11:AK:29:ILE:HA	11:AK:44:SER:HB3	1.77	0.67
15:AO:54:ARG:O	15:AO:58:MET:SD	2.52	0.67
17:AQ:26:GLN:O	17:AQ:27:PHE:HB3	1.93	0.67
19:AS:45:VAL:HB	19:AS:63:THR:O	1.93	0.67
24:AY:349:MET:SD	24:AY:356:VAL:HA	2.34	0.67
25:B0:50:ASN:C	25:B0:62:LEU:HD21	2.13	0.67
29:B4:5:ILE:O	29:B4:5:ILE:HG12	1.94	0.67
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.29	0.67
35:BA:2287:A:H62	35:BA:2344:U:H3	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2521:C:C2	35:BA:2545:G:N2	2.62	0.67
35:BA:2734:A:H62	35:BA:2770:G:H21	1.42	0.67
38:BD:108:PRO:HB3	38:BD:143:HIS:NE2	2.07	0.67
38:BD:43:ARG:HB3	38:BD:54:ARG:O	1.94	0.67
39:BE:171:GLU:O	39:BE:173:VAL:N	2.23	0.67
40:BF:23:ASP:O	40:BF:115:ALA:HB2	1.94	0.67
40:BF:18:ARG:CZ	40:BF:199:TRP:HZ3	2.07	0.67
45:BN:18:ALA:HB3	45:BN:26:LEU:HD21	1.77	0.67
48:BQ:34:LEU:HA	48:BQ:130:LYS:O	1.94	0.67
49:BR:17:ARG:CB	49:BR:17:ARG:HH11	2.07	0.67
49:BR:47:PHE:O	49:BR:51:LEU:HD13	1.95	0.67
54:BW:69:LEU:HA	54:BW:108:GLY:O	1.93	0.67
55:BX:8:ILE:HD12	55:BX:8:ILE:N	2.07	0.67
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.29	0.67
1:AA:1314:C:O2'	1:AA:1315:U:H5'	1.94	0.67
1:AA:398:C:H3'	1:AA:398:C:C6	2.28	0.67
1:AA:633:G:H3'	1:AA:634:C:C6	2.28	0.67
1:AA:979:C:H41	1:AA:1360:A:H62	1.40	0.67
4:AD:61:LYS:CA	4:AD:203:VAL:HG22	2.24	0.67
11:AK:29:ILE:HA	11:AK:44:SER:CB	2.24	0.67
15:AO:39:LEU:HD13	15:AO:56:LEU:HD23	1.75	0.67
22:AV:49:G:H2'	22:AV:50:U:H6	1.59	0.67
26:B1:89:GLU:HA	26:B1:92:LYS:HE3	1.77	0.67
33:B8:8:LYS:NZ	33:B8:11:LYS:CE	2.57	0.67
35:BA:1440:G:O2'	35:BA:1441:G:H5'	1.94	0.67
35:BA:1915:U:C2'	35:BA:1916:A:O5'	2.42	0.67
35:BA:1998:G:C2'	35:BA:1999:C:H5'	2.24	0.67
35:BA:239:U:H1'	35:BA:259:G:N2	2.08	0.67
35:BA:2746:U:H2'	35:BA:2747:G:C5'	2.20	0.67
35:BA:361:G:H2'	35:BA:362:U:H4'	1.76	0.67
37:BC:103:ILE:HD12	37:BC:127:MET:HE3	1.75	0.67
40:BF:156:LEU:HD12	40:BF:157:VAL:N	2.09	0.67
42:BH:40:GLU:OE1	42:BH:40:GLU:HA	1.93	0.67
45:BN:27:ALA:HA	45:BN:30:ILE:CD1	2.21	0.67
45:BN:35:ARG:O	45:BN:37:LYS:N	2.27	0.67
46:BO:33:ALA:HA	46:BO:37:ASP:OD2	1.94	0.67
47:BP:111:ARG:HA	47:BP:128:HIS:CD2	2.29	0.67
35:BA:1030:G:OP2	48:BQ:128:LYS:HE2	1.93	0.67
48:BQ:60:ARG:HB3	48:BQ:60:ARG:NH1	2.08	0.67
49:BR:60:LEU:O	49:BR:63:ARG:HB3	1.94	0.67
50:BS:13:ARG:O	50:BS:14:VAL:HB	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:42:VAL:HG13	57:BZ:43:GLU:N	2.09	0.67
57:BZ:56:VAL:CG2	57:BZ:70:LEU:HD13	2.18	0.67
1:AA:1506:U:O2'	1:AA:1507:A:H5'	1.93	0.67
1:AA:778:G:H2'	1:AA:779:C:C6	2.29	0.67
2:AB:17:PHE:C	2:AB:17:PHE:CD1	2.65	0.67
3:AC:86:VAL:HG23	3:AC:87:LEU:CD2	2.25	0.67
6:AF:67:MET:HE2	6:AF:68:PRO:O	1.95	0.67
11:AK:108:ILE:N	11:AK:108:ILE:HD12	2.09	0.67
19:AS:20:LEU:HA	19:AS:23:ASN:CB	2.24	0.67
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.76	0.67
31:B6:15:GLU:OE2	31:B6:41:PRO:HB3	1.93	0.67
35:BA:1068:G:N7	44:BK:25:UNK:C	2.56	0.67
35:BA:1786:A:H3'	35:BA:1787:A:N7	2.09	0.67
35:BA:1915:U:O2'	35:BA:1916:A:C5'	2.40	0.67
35:BA:2101:G:C2'	35:BA:2102:U:H5''	2.25	0.67
35:BA:233:A:H2'	35:BA:234:C:C6	2.29	0.67
35:BA:2692:C:H1'	35:BA:2847:U:O2'	1.95	0.67
35:BA:852:G:H2'	35:BA:853:G:H8	1.60	0.67
35:BA:861:A:H2	35:BA:862:G:H1'	1.59	0.67
35:BA:952:G:C4	35:BA:966:G:N2	2.61	0.67
41:BG:130:ASN:HB3	41:BG:160:VAL:HA	1.76	0.67
41:BG:51:ARG:NE	41:BG:51:ARG:HA	2.08	0.67
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.04	0.67
47:BP:16:ARG:HD3	47:BP:18:ARG:N	2.09	0.67
49:BR:29:LEU:HD21	49:BR:52:ILE:HD11	1.75	0.67
57:BZ:151:HIS:CB	57:BZ:170:THR:HA	2.24	0.67
1:AA:1265:G:C6	1:AA:1266:G:O6	2.47	0.67
1:AA:1284:C:C2	1:AA:1285:A:N7	2.62	0.67
1:AA:1304:G:H1'	1:AA:1334:G:H22	1.60	0.67
1:AA:17:U:H2'	1:AA:18:C:C6	2.28	0.67
2:AB:14:GLY:C	2:AB:15:VAL:HG22	2.13	0.67
2:AB:97:TRP:CH2	2:AB:176:GLU:HG3	2.29	0.67
3:AC:74:GLY:HA2	3:AC:77:ILE:HD12	1.75	0.67
1:AA:1350:A:OP2	9:AI:121:ARG:HG3	1.94	0.67
9:AI:34:ASN:O	9:AI:38:GLN:HB2	1.95	0.67
16:AP:5:ARG:O	16:AP:6:LEU:HD12	1.93	0.67
18:AR:72:ARG:O	18:AR:76:LEU:HD23	1.93	0.67
24:AY:108:CYS:HA	24:AY:135:THR:CG2	2.25	0.67
24:AY:10:VAL:O	24:AY:279:PRO:HD3	1.94	0.67
24:AY:25:GLY:HA3	24:AY:29:ILE:HG13	1.74	0.67
24:AY:299:PHE:H	24:AY:299:PHE:HD2	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:86:LEU:CD1	24:AY:88:ASP:H	2.07	0.67
25:B0:43:THR:H	35:BA:2331:G:C4'	1.95	0.67
28:B3:6:VAL:HB	28:B3:54:VAL:CG1	2.24	0.67
33:B8:52:LYS:O	33:B8:56:GLU:OE1	2.12	0.67
35:BA:1053:C:H2'	35:BA:1054:A:H8	1.59	0.67
35:BA:2454:G:O2'	35:BA:2455:G:H5'	1.94	0.67
35:BA:315:G:H2'	35:BA:316:C:C6	2.29	0.67
35:BA:614:U:H1'	35:BA:614(C):A:N7	2.09	0.67
37:BC:10:LEU:HD12	37:BC:32:LEU:CA	2.24	0.67
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.08	0.67
42:BH:59:ARG:HB2	42:BH:59:ARG:HH11	1.60	0.67
44:BK:5:UNK:O	44:BK:7:UNK:N	2.27	0.67
51:BT:50:ILE:HA	51:BT:99:LEU:CD1	2.23	0.67
1:AA:577:G:N2	1:AA:765:G:H1'	2.09	0.67
1:AA:778:G:H2'	1:AA:779:C:H6	1.59	0.67
2:AB:219:VAL:O	2:AB:223:ILE:HG13	1.94	0.67
2:AB:7:VAL:HG13	2:AB:11:LEU:HD12	1.76	0.67
3:AC:116:VAL:HG21	3:AC:202:ILE:HD11	1.76	0.67
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.07	0.67
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.10	0.67
17:AQ:62:SER:CB	17:AQ:72:ARG:HG3	2.24	0.67
24:AY:164:ILE:HG12	24:AY:252:THR:CG2	2.24	0.67
35:BA:110:G:O2'	35:BA:111:A:H5'	1.93	0.67
35:BA:1969:A:O2'	35:BA:1972:A:H1'	1.94	0.67
35:BA:2131:G:H4'	35:BA:2132:U:OP2	1.92	0.67
35:BA:2307:G:H21	35:BA:2308:G:C5'	2.07	0.67
35:BA:2367:G:O2'	35:BA:2368:C:H5'	1.94	0.67
38:BD:136:ILE:HD12	38:BD:191:ALA:HB3	1.75	0.67
42:BH:124:GLU:C	42:BH:126:PRO:HD3	2.14	0.67
35:BA:872:A:H5'	48:BQ:69:PHE:CE2	2.26	0.67
51:BT:51:ARG:HD3	51:BT:62:THR:HG21	1.76	0.67
1:AA:1405:G:H1'	1:AA:1519:A:C4'	2.25	0.67
1:AA:1491:G:C3'	1:AA:1492:A:C8	2.77	0.67
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.74	0.67
2:AB:155:LEU:CD2	2:AB:159:PRO:HG3	2.21	0.67
3:AC:137:ALA:HA	3:AC:140:ARG:CZ	2.25	0.67
4:AD:173:TRP:HA	4:AD:187:ARG:HH12	1.58	0.67
4:AD:18:LYS:HG3	4:AD:33:MET:HB3	1.76	0.67
6:AF:45:LEU:HD13	6:AF:59:TYR:HD1	1.59	0.67
15:AO:33:THR:CG2	15:AO:34:LEU:N	2.58	0.67
15:AO:56:LEU:O	15:AO:59:MET:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:85:LEU:N	15:AO:85:LEU:CD2	2.58	0.67
22:AV:1:C:H42	22:AV:72:A:H61	1.42	0.67
29:B4:35:VAL:HG12	29:B4:36:CYS:H	1.59	0.67
31:B6:18:ARG:HG2	31:B6:18:ARG:NH1	2.08	0.67
33:B8:23:VAL:HG13	33:B8:47:LYS:O	1.95	0.67
35:BA:1190:G:H2'	35:BA:1191:G:H8	1.57	0.67
35:BA:1248:G:P	40:BF:92:PRO:HG3	2.35	0.67
35:BA:193:U:C2'	35:BA:194:G:H5'	2.24	0.67
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.09	0.67
24:AY:260:LEU:HD21	35:BA:2655:G:H5''	1.77	0.67
35:BA:2758:A:H62	42:BH:67:LEU:HD11	1.55	0.67
35:BA:289:A:H61	35:BA:351:G:H1'	1.59	0.67
36:BB:10:C:O2'	36:BB:11:C:H5'	1.94	0.67
39:BE:112:GLY:O	39:BE:114:ALA:N	2.27	0.67
39:BE:60:ASN:OD1	39:BE:61:ARG:N	2.26	0.67
45:BN:66:LYS:HB3	45:BN:70:LYS:HB2	1.75	0.67
46:BO:24:VAL:HG23	46:BO:24:VAL:O	1.94	0.67
51:BT:107:ASP:CG	51:BT:108:ARG:H	1.97	0.67
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.95	0.67
1:AA:687:A:O2'	1:AA:688:G:OP2	2.10	0.67
19:AS:44:MET:HA	29:B4:47:GLN:OE1	1.95	0.67
19:AS:62:ILE:HA	19:AS:66:MET:CE	2.25	0.67
24:AY:412:LEU:C	24:AY:414:LYS:H	1.98	0.67
19:AS:23:ASN:OD1	29:B4:47:GLN:HG3	1.95	0.67
35:BA:1439:A:H2'	35:BA:1440:G:O4'	1.95	0.67
35:BA:2562:U:C2'	35:BA:2563:U:H5'	2.24	0.67
35:BA:2580:U:C5	35:BA:2581:G:C6	2.82	0.67
35:BA:2826:A:H2'	35:BA:2827:C:C6	2.29	0.67
35:BA:668:G:H2'	35:BA:670:A:H62	1.60	0.67
37:BC:29:VAL:HG12	37:BC:222:VAL:HG21	1.75	0.67
39:BE:68:ALA:O	39:BE:70:ALA:N	2.26	0.67
41:BG:115:ARG:NH2	41:BG:136:ARG:HD2	2.08	0.67
45:BN:5:VAL:CG1	45:BN:7:LYS:HG3	2.20	0.67
47:BP:47:ASP:OD1	47:BP:49:ARG:HG3	1.95	0.67
49:BR:21:TYR:O	49:BR:25:ALA:HB2	1.93	0.67
50:BS:46:VAL:HG12	50:BS:47:THR:N	2.08	0.67
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG12	1.76	0.67
57:BZ:152:ALA:O	57:BZ:155:LEU:HD21	1.95	0.67
1:AA:175:C:H4'	20:AT:25:ARG:NH1	2.09	0.67
1:AA:404:U:C2	1:AA:405:U:C5	2.83	0.67
2:AB:92:TYR:CE1	2:AB:150:SER:HB2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:92:TYR:CZ	2:AB:150:SER:HB2	2.30	0.67
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	1.95	0.67
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.63	0.67
10:AJ:43:ARG:O	10:AJ:67:THR:HG22	1.93	0.67
10:AJ:65:LEU:HG	10:AJ:65:LEU:O	1.95	0.67
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.94	0.67
10:AJ:49:VAL:HG21	14:AN:41:ARG:HB2	1.77	0.67
19:AS:10:PHE:HE1	19:AS:70:LYS:HD2	1.59	0.67
20:AT:18:GLN:HG2	20:AT:22:ARG:NH1	2.10	0.67
22:AV:49:G:N2	22:AV:50:U:H1'	2.09	0.67
22:AV:51:C:C2	22:AV:52:G:N7	2.63	0.67
24:AY:135:THR:O	24:AY:137:ILE:HG13	1.95	0.67
24:AY:168:PRO:HB2	24:AY:171:TRP:CZ2	2.28	0.67
24:AY:413:LEU:HD11	24:AY:429:ARG:HD3	1.77	0.67
35:BA:1064:C:H3'	35:BA:1065:U:H5''	1.77	0.67
35:BA:1691:C:H2'	35:BA:1692:U:H6	1.59	0.67
35:BA:1802:A:N1	35:BA:1822:G:H1'	2.10	0.67
35:BA:2149:G:O2'	35:BA:2150:U:H5'	1.95	0.67
35:BA:2223:G:H4'	38:BD:269:PHE:CZ	2.30	0.67
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.29	0.67
35:BA:2446:G:C2	35:BA:2501:C:C5	2.82	0.67
38:BD:69:ARG:CD	38:BD:105:ILE:HD11	2.25	0.67
39:BE:87:GLU:HG3	39:BE:87:GLU:O	1.95	0.67
41:BG:11:TYR:HD1	41:BG:15:VAL:HB	1.59	0.67
35:BA:2312:U:OP1	41:BG:73:ALA:HA	1.95	0.67
50:BS:73:LEU:O	50:BS:73:LEU:HD23	1.94	0.67
52:BU:83:LEU:HG	52:BU:88:ILE:HD11	1.75	0.67
56:BY:81:LYS:HD2	56:BY:96:ILE:HD12	1.77	0.67
57:BZ:124:ILE:O	57:BZ:126:VAL:HG13	1.95	0.67
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.60	0.67
1:AA:1407:C:C2'	1:AA:1408:A:C5'	2.73	0.67
7:AG:99:LEU:HD23	7:AG:102:ARG:NH2	2.09	0.67
8:AH:5:PRO:HD2	8:AH:6:ILE:CD1	2.24	0.67
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.76	0.67
11:AK:63:LEU:HA	11:AK:66:LEU:HD11	1.76	0.67
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	1.94	0.67
20:AT:49:ALA:O	20:AT:52:ALA:HB3	1.94	0.67
22:AV:14:A:N3	22:AV:15:G:H1'	2.10	0.67
24:AY:472:ARG:HG3	24:AY:523:PHE:CZ	2.30	0.67
30:B5:3:LYS:HD3	35:BA:747:U:OP2	1.95	0.67
35:BA:1826:G:H4'	38:BD:242:ARG:CZ	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:35:THR:HG21	35:BA:2080:G:OP1	1.95	0.67
35:BA:266:G:H2'	35:BA:267:C:H5"	1.77	0.67
35:BA:2745:C:O2'	42:BH:142:GLY:HA3	1.94	0.67
35:BA:531:C:O2'	35:BA:563:G:H5"	1.94	0.67
35:BA:906:G:H4'	48:BQ:67:ARG:NH2	2.09	0.67
37:BC:175:VAL:HG21	37:BC:189:ILE:CG1	2.15	0.67
37:BC:77:ILE:O	37:BC:78:ALA:O	2.13	0.67
38:BD:82:ILE:HA	38:BD:93:ALA:HA	1.77	0.67
39:BE:25:VAL:HG22	39:BE:183:LEU:HD11	1.76	0.67
41:BG:60:LEU:HD22	41:BG:63:ILE:CD1	2.24	0.67
42:BH:12:PRO:HD2	42:BH:15:VAL:CG1	2.25	0.67
47:BP:100:LEU:CB	47:BP:106:LEU:HD22	2.24	0.67
47:BP:65:ARG:HB3	47:BP:68:GLN:HE22	1.58	0.67
48:BQ:21:THR:CG2	48:BQ:101:ARG:HD2	2.25	0.67
53:BV:74:LYS:O	53:BV:75:PHE:HB3	1.95	0.67
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.60	0.67
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.30	0.67
1:AA:291:C:H2'	1:AA:292:G:H8	1.60	0.67
1:AA:838:G:C2'	1:AA:839:U:H5"	2.24	0.67
7:AG:78:ARG:O	7:AG:78:ARG:HG3	1.94	0.67
8:AH:114:THR:OG1	8:AH:119:LEU:HD12	1.94	0.67
12:AL:34:ARG:HD3	12:AL:105:TYR:CZ	2.30	0.67
12:AL:40:VAL:HG12	12:AL:40:VAL:O	1.95	0.67
15:AO:45:VAL:HG13	15:AO:46:HIS:CD2	2.29	0.67
18:AR:54:ARG:O	18:AR:55:ARG:HG2	1.95	0.67
22:AV:67:C:H2'	22:AV:68:C:H6	1.59	0.67
24:AY:18:ILE:CD1	24:AY:30:THR:OG1	2.43	0.67
35:BA:1135:C:C2	35:BA:1137:G:OP2	2.48	0.67
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.60	0.67
35:BA:2835:A:N6	35:BA:2878:U:H3'	2.10	0.67
35:BA:884:C:O5'	35:BA:884:C:H6	1.78	0.67
37:BC:100:ILE:O	37:BC:100:ILE:HG22	1.94	0.67
38:BD:111:LEU:CD1	38:BD:115:GLN:NE2	2.58	0.67
35:BA:2053:G:H4'	39:BE:145:LYS:HA	1.77	0.67
40:BF:185:ASP:HA	40:BF:188:ARG:CD	2.23	0.67
41:BG:171:ALA:HA	41:BG:174:GLU:HB3	1.77	0.67
47:BP:112:LEU:N	47:BP:128:HIS:HD2	1.93	0.67
51:BT:32:TYR:O	51:BT:33:LYS:HB2	1.94	0.67
51:BT:89:VAL:HG21	51:BT:91:ARG:NH2	2.10	0.67
53:BV:21:ARG:HG2	53:BV:91:TYR:CG	2.30	0.67
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:539:A:OP2	12:AL:115:LYS:HE3	1.94	0.66
1:AA:979:C:O2	14:AN:19:ARG:NE	2.27	0.66
2:AB:187:LEU:CD2	2:AB:201:ILE:O	2.43	0.66
4:AD:180:GLY:O	4:AD:181:MET:HB2	1.94	0.66
11:AK:126:ARG:C	11:AK:128:ALA:H	1.98	0.66
17:AQ:59:ILE:CD1	17:AQ:73:VAL:HA	2.24	0.66
18:AR:40:LEU:O	18:AR:43:PHE:HB2	1.96	0.66
31:B6:8:LYS:HE2	35:BA:2285:C:OP2	1.95	0.66
32:B7:16:HIS:HA	32:B7:21:ARG:NH1	2.09	0.66
35:BA:1999:C:H2'	35:BA:2000:G:H8	1.60	0.66
35:BA:2319:G:H22	35:BA:2334:G:P	2.17	0.66
35:BA:2355:C:H2'	35:BA:2355:C:O2	1.95	0.66
35:BA:2525:G:O2'	35:BA:2526:G:H5'	1.95	0.66
35:BA:2553:G:H3'	35:BA:2554:U:H5''	1.75	0.66
35:BA:748:G:H5''	35:BA:2612:C:N4	2.10	0.66
35:BA:2817:G:H2'	35:BA:2818:G:O4'	1.94	0.66
35:BA:2841:C:H2'	35:BA:2842:G:H8	1.60	0.66
35:BA:305:U:H2'	35:BA:306:U:C6	2.30	0.66
35:BA:491:G:H2'	35:BA:492:A:O4'	1.94	0.66
35:BA:864:G:N7	48:BQ:22:LYS:NZ	2.42	0.66
38:BD:213:ARG:NH1	38:BD:219:PRO:CD	2.53	0.66
39:BE:14:ILE:HD11	39:BE:173:VAL:HG11	1.77	0.66
40:BF:125:LEU:HD23	40:BF:125:LEU:N	2.09	0.66
47:BP:85:LEU:HA	47:BP:88:LEU:CB	2.25	0.66
50:BS:51:ALA:CB	50:BS:73:LEU:HB2	2.25	0.66
50:BS:24:LEU:CB	50:BS:85:VAL:HG12	2.26	0.66
52:BU:57:PHE:HB3	52:BU:61:TRP:CE2	2.30	0.66
53:BV:2:PHE:CZ	53:BV:13:ARG:HD2	2.30	0.66
57:BZ:24:LEU:HD21	57:BZ:86:VAL:CG2	2.25	0.66
1:AA:1204:A:H2'	1:AA:1205:U:O4'	1.94	0.66
1:AA:974:A:N7	14:AN:31:ARG:NH1	2.43	0.66
5:AE:118:ILE:HG12	5:AE:119:LEU:N	2.10	0.66
12:AL:35:GLY:HA2	12:AL:59:ARG:O	1.95	0.66
15:AO:38:ARG:O	15:AO:42:HIS:N	2.28	0.66
35:BA:118:A:OP2	35:BA:119:A:H2'	1.94	0.66
35:BA:1486:A:N6	35:BA:1504:C:H42	1.93	0.66
35:BA:1865:G:H5'	35:BA:1866:C:P	2.34	0.66
35:BA:2153:G:N2	35:BA:2154:G:H1'	2.09	0.66
35:BA:909:A:O2'	35:BA:911:A:OP2	2.12	0.66
39:BE:23:VAL:HG12	39:BE:184:VAL:O	1.93	0.66
40:BF:122:LYS:HB3	40:BF:191:ARG:HG3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:118:PRO:HD2	42:BH:121:ILE:HG21	1.77	0.66
51:BT:83:ILE:HG13	51:BT:84:GLN:N	2.09	0.66
52:BU:101:ARG:O	52:BU:103:PRO:CD	2.36	0.66
35:BA:565:C:OP2	53:BV:78:LYS:N	2.27	0.66
54:BW:1:MET:HE3	54:BW:2:GLU:H	1.60	0.66
57:BZ:41:LEU:O	57:BZ:44:PHE:HB3	1.94	0.66
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.30	0.66
1:AA:28:G:N2	1:AA:556:C:C2	2.63	0.66
2:AB:39:ILE:O	2:AB:41:ILE:HD12	1.95	0.66
5:AE:91:LEU:HD13	5:AE:120:THR:OG1	1.95	0.66
11:AK:126:ARG:O	11:AK:128:ALA:N	2.28	0.66
15:AO:16:ALA:HB1	15:AO:21:ASP:OD1	1.96	0.66
15:AO:54:ARG:CG	15:AO:58:MET:CE	2.66	0.66
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.10	0.66
24:AY:21:HIS:CG	24:AY:22:PRO:CD	2.79	0.66
26:B1:58:ILE:HD11	26:B1:91:LYS:HB2	1.77	0.66
35:BA:1331:A:O2'	35:BA:1332:G:H8	1.76	0.66
35:BA:2514:U:O2'	35:BA:2515:C:H5'	1.95	0.66
35:BA:2559:C:H2'	35:BA:2560:C:H6	1.60	0.66
35:BA:472:A:H2'	35:BA:473:G:H5'	1.77	0.66
35:BA:485:C:H2'	35:BA:486:C:C6	2.30	0.66
37:BC:100:ILE:HA	37:BC:127:MET:HE1	1.78	0.66
37:BC:47:LEU:HD11	37:BC:171:ILE:CG1	2.25	0.66
38:BD:126:GLN:C	38:BD:193:VAL:HG21	2.16	0.66
38:BD:24:ILE:HG23	38:BD:83:GLU:HA	1.77	0.66
38:BD:90:ALA:HB3	38:BD:106:ILE:HG23	1.76	0.66
40:BF:131:GLY:C	40:BF:138:GLU:HB3	2.16	0.66
52:BU:13:LYS:O	52:BU:16:LYS:HB2	1.95	0.66
52:BU:47:TYR:O	52:BU:51:LYS:HG2	1.95	0.66
56:BY:25:GLY:CA	56:BY:40:GLU:HG2	2.25	0.66
56:BY:86:ARG:CZ	56:BY:95:LYS:NZ	2.59	0.66
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.31	0.66
1:AA:506:G:H2'	1:AA:507:C:C6	2.30	0.66
2:AB:102:LEU:N	2:AB:102:LEU:HD12	2.11	0.66
4:AD:187:ARG:HH11	4:AD:187:ARG:HB3	1.59	0.66
1:AA:427:U:OP1	4:AD:41:GLY:N	2.29	0.66
6:AF:80:ARG:HG2	6:AF:88:VAL:CG2	2.25	0.66
13:AM:22:ILE:CB	13:AM:25:ILE:HD12	2.24	0.66
14:AN:12:ARG:HH11	14:AN:14:PRO:HG2	1.57	0.66
31:B6:15:GLU:HB2	31:B6:20:ASN:HB3	1.78	0.66
32:B7:23:ARG:C	32:B7:24:THR:HG22	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.55	0.66
35:BA:271(L):U:C5'	35:BA:271(M):G:H5'	2.22	0.66
35:BA:303:U:H2'	35:BA:304:G:H8	1.60	0.66
35:BA:470:A:H2'	35:BA:471:A:O4'	1.96	0.66
35:BA:682:G:O2'	35:BA:683:C:H5'	1.94	0.66
35:BA:696:G:N3	35:BA:696:G:H2'	2.11	0.66
35:BA:762:U:H5'	35:BA:763:G:C2	2.29	0.66
37:BC:103:ILE:HB	37:BC:127:MET:SD	2.35	0.66
38:BD:9:TYR:CD1	38:BD:10:THR:N	2.54	0.66
38:BD:9:TYR:OH	38:BD:13:ARG:CD	2.43	0.66
39:BE:107:THR:HA	39:BE:163:GLU:O	1.95	0.66
40:BF:126:VAL:HG21	40:BF:129:PHE:CZ	2.30	0.66
42:BH:94:TYR:HB3	42:BH:107:VAL:HB	1.78	0.66
35:BA:2870:C:OP1	49:BR:61:HIS:HE1	1.78	0.66
35:BA:2378:A:C2	50:BS:19:LYS:HE3	2.30	0.66
51:BT:85:LYS:HZ3	51:BT:85:LYS:HB3	1.60	0.66
52:BU:27:LEU:HA	52:BU:30:LYS:HB2	1.77	0.66
1:AA:1203:C:O2'	1:AA:1204:A:H5'	1.96	0.66
1:AA:231:G:O2'	1:AA:232:G:H5'	1.96	0.66
1:AA:326:G:O2'	1:AA:327:A:H5'	1.95	0.66
1:AA:858:G:C6	1:AA:869:G:N7	2.63	0.66
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.09	0.66
3:AC:21:ARG:C	3:AC:22:TRP:CD1	2.69	0.66
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.10	0.66
17:AQ:92:ARG:O	17:AQ:95:TYR:HB2	1.95	0.66
26:B1:86:SER:O	26:B1:90:ILE:HG12	1.96	0.66
27:B2:36:ARG:CA	27:B2:39:ALA:HB3	2.25	0.66
35:BA:781:A:C2	35:BA:1777:U:O4'	2.47	0.66
35:BA:1830:C:O2'	35:BA:1831:G:H5'	1.95	0.66
35:BA:2101:G:H2'	35:BA:2102:U:C5'	2.24	0.66
35:BA:2311:A:O2'	35:BA:2312:U:C6	2.47	0.66
35:BA:2839:G:H4'	49:BR:49:ASP:CG	2.16	0.66
35:BA:654(L):G:H2'	35:BA:654(M):C:H4'	1.77	0.66
36:BB:29:A:O2'	36:BB:30:C:H5'	1.94	0.66
38:BD:169:GLU:O	38:BD:171:ASP:N	2.28	0.66
38:BD:273:ARG:HG3	38:BD:273:ARG:NH1	2.07	0.66
39:BE:172:VAL:HA	39:BE:183:LEU:O	1.95	0.66
39:BE:195:LEU:HD12	39:BE:196:VAL:N	2.11	0.66
42:BH:154:PRO:HA	42:BH:160:LYS:O	1.95	0.66
35:BA:910:A:N6	48:BQ:12:GLN:HA	2.04	0.66
50:BS:28:VAL:HG12	50:BS:29:PHE:N	2.06	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:123:ASP:C	57:BZ:124:ILE:HG12	2.16	0.66
57:BZ:72:ARG:HH22	57:BZ:97:GLU:HB3	1.60	0.66
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.60	0.66
1:AA:241:C:O2'	1:AA:242:C:H5'	1.94	0.66
1:AA:675:A:H2'	1:AA:676:A:O4'	1.94	0.66
1:AA:917:G:H2'	1:AA:918:A:O4'	1.96	0.66
1:AA:939:G:H2'	1:AA:940:C:C6	2.31	0.66
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.94	0.66
20:AT:36:LEU:HD12	20:AT:59:ALA:CB	2.26	0.66
24:AY:403:LEU:HD11	24:AY:412:LEU:HB2	1.76	0.66
24:AY:425:VAL:HG21	24:AY:449:VAL:CG1	2.25	0.66
28:B3:46:ASN:O	28:B3:46:ASN:ND2	2.26	0.66
35:BA:1071:G:N2	35:BA:1091:G:N7	2.44	0.66
35:BA:2007:C:H5'	35:BA:2824:C:C1'	2.26	0.66
35:BA:2206:G:N3	35:BA:2206:G:H3'	2.11	0.66
35:BA:2284:C:H2'	35:BA:2285:C:H6	1.59	0.66
35:BA:2075:U:H5'	35:BA:2597:G:H1'	1.76	0.66
35:BA:2601:C:H6	35:BA:2601:C:O5'	1.77	0.66
35:BA:2606:C:H2'	35:BA:2607:G:C8	2.29	0.66
32:B7:3:ARG:NH2	35:BA:752:A:OP1	2.27	0.66
36:BB:104:U:O3'	57:BZ:72:ARG:HD2	1.96	0.66
37:BC:120:MET:SD	37:BC:123:VAL:HG11	2.36	0.66
48:BQ:67:ARG:HD2	48:BQ:105:GLU:OE1	1.96	0.66
54:BW:26:GLY:H	54:BW:71:VAL:HB	1.59	0.66
1:AA:600:C:H2'	1:AA:601:C:C6	2.30	0.66
1:AA:678:U:O2	1:AA:777:A:H4'	1.96	0.66
1:AA:848:C:H2'	1:AA:849:C:C6	2.30	0.66
2:AB:69:LEU:HD23	2:AB:159:PRO:HG3	1.77	0.66
3:AC:88:ARG:HG3	3:AC:88:ARG:HH11	1.60	0.66
4:AD:101:LEU:O	4:AD:105:VAL:HG23	1.95	0.66
5:AE:150:ARG:O	5:AE:151:LEU:HD23	1.95	0.66
1:AA:1348:U:H5'	9:AI:110:GLU:OE1	1.96	0.66
19:AS:47:HIS:N	19:AS:62:ILE:HG21	2.10	0.66
24:AY:255:PHE:CE2	24:AY:268:MET:HA	2.31	0.66
24:AY:101:ARG:NH1	24:AY:301:PHE:O	2.28	0.66
32:B7:10:ARG:HH21	35:BA:1378:A:H5''	1.60	0.66
35:BA:1315:C:O2'	35:BA:1316:U:H5'	1.96	0.66
35:BA:1367:A:C2'	35:BA:1368:G:H5'	2.26	0.66
35:BA:2389:G:H5''	35:BA:2390:U:C5'	2.26	0.66
35:BA:2747:G:C2	35:BA:2756:U:H5	2.13	0.66
35:BA:94(A):G:C3'	35:BA:95:G:H5''	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:189:ILE:HD13	37:BC:214:VAL:CG2	2.25	0.66
39:BE:147:PRO:HB2	39:BE:149:ARG:HG2	1.78	0.66
40:BF:159:GLY:HA2	40:BF:164:ARG:NH2	2.11	0.66
41:BG:125:PHE:HB3	41:BG:130:ASN:O	1.96	0.66
48:BQ:58:PHE:O	48:BQ:58:PHE:HD1	1.79	0.66
50:BS:65:VAL:C	50:BS:69:VAL:HG12	2.16	0.66
51:BT:123:GLN:HA	51:BT:126:ALA:CB	2.25	0.66
52:BU:36:ARG:HA	52:BU:39:LEU:HG	1.78	0.66
56:BY:67:LEU:HD23	56:BY:68:HIS:N	2.09	0.66
1:AA:622:A:N7	1:AA:623:C:C4	2.63	0.66
2:AB:87:ARG:NH1	2:AB:223:ILE:HD11	2.08	0.66
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.96	0.66
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.25	0.66
8:AH:44:PHE:CE2	8:AH:109:ILE:HG21	2.30	0.66
8:AH:5:PRO:O	8:AH:8:ASP:N	2.29	0.66
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	2.08	0.66
12:AL:89:ARG:HH11	12:AL:91:LYS:CA	2.09	0.66
15:AO:12:ILE:HG12	15:AO:27:VAL:HG12	1.77	0.66
15:AO:39:LEU:CD1	15:AO:56:LEU:CD2	2.72	0.66
16:AP:20:VAL:HG23	16:AP:34:GLU:O	1.96	0.66
16:AP:73:LEU:HA	16:AP:76:GLN:NE2	2.11	0.66
22:AV:61:C:O2	22:AV:61:C:H2'	1.94	0.66
24:AY:261:GLY:O	24:AY:262:ASN:HB2	1.96	0.66
24:AY:420:SER:C	24:AY:422:GLU:H	1.98	0.66
26:B1:27:GLU:HG3	26:B1:28:GLY:N	2.10	0.66
30:B5:19:ARG:O	30:B5:21:SER:N	2.28	0.66
26:B1:3:LYS:HD2	35:BA:1364:G:C8	2.31	0.66
35:BA:1803:A:H2'	35:BA:1804:C:C6	2.29	0.66
35:BA:1827:C:C2	35:BA:1828:G:C8	2.83	0.66
35:BA:2009:G:H2'	35:BA:2010:G:C8	2.29	0.66
35:BA:2358:G:O2'	35:BA:2359:C:H5'	1.94	0.66
35:BA:272(H):C:O5'	35:BA:272(H):C:H6	1.78	0.66
35:BA:608:A:H2'	35:BA:609:A:H8	1.59	0.66
35:BA:845:G:C8	35:BA:845:G:OP2	2.48	0.66
39:BE:117:MET:N	39:BE:122:PHE:HB2	2.10	0.66
39:BE:142:GLY:C	39:BE:143:ASN:HD22	1.99	0.66
49:BR:101:ALA:HB1	54:BW:38:TYR:HE1	1.61	0.66
54:BW:88:ARG:HH11	54:BW:88:ARG:CG	2.09	0.66
57:BZ:119:GLU:HG3	57:BZ:122:ARG:CZ	2.24	0.66
57:BZ:141:VAL:CA	57:BZ:144:LEU:HD23	2.24	0.66
57:BZ:60:GLU:HA	57:BZ:65:GLN:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:141:GLN:HE22	57:BZ:72:ARG:HD3	1.59	0.66
1:AA:1377:A:OP2	7:AG:94:ARG:CZ	2.44	0.66
1:AA:145:G:N2	1:AA:178:C:C2	2.64	0.66
1:AA:707:C:H2'	1:AA:708:C:H6	1.61	0.66
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.11	0.66
1:AA:980:C:H5'	1:AA:981:U:C4	2.31	0.66
2:AB:17:PHE:O	2:AB:18:GLY:O	2.13	0.66
4:AD:67:ILE:HG22	4:AD:67:ILE:O	1.96	0.66
5:AE:106:PRO:O	5:AE:110:LEU:HG	1.96	0.66
1:AA:9:G:H5'	5:AE:122:GLU:OE1	1.96	0.66
5:AE:24:ARG:HH11	5:AE:24:ARG:HG2	1.59	0.66
1:AA:1377:A:OP2	7:AG:94:ARG:NH2	2.28	0.66
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	1.95	0.66
11:AK:84:VAL:HG22	11:AK:110:ASP:HA	1.78	0.66
12:AL:53:ARG:HG3	12:AL:69:TYR:HE2	1.60	0.66
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.11	0.66
19:AS:49:ILE:O	19:AS:60:VAL:CG1	2.44	0.66
28:B3:35:ARG:HG3	28:B3:35:ARG:HH11	1.59	0.66
35:BA:1192:G:O2'	35:BA:1193:G:H5'	1.95	0.66
35:BA:1712:C:N4	35:BA:1747:G:H1	1.94	0.66
35:BA:1750:G:N3	35:BA:2860:A:C2	2.63	0.66
35:BA:1786:A:C6	35:BA:1938:A:C2	2.83	0.66
35:BA:244:A:C2	35:BA:255:A:C4	2.83	0.66
35:BA:363(E):U:C5	35:BA:363(F):A:H2	2.14	0.66
35:BA:628:G:C2'	35:BA:629:G:C5'	2.69	0.66
35:BA:780:G:H21	35:BA:783:A:H62	1.41	0.66
38:BD:24:ILE:HG23	38:BD:82:ILE:C	2.17	0.66
39:BE:174:ASP:O	39:BE:183:LEU:HB2	1.96	0.66
36:BB:57:A:N7	41:BG:29:TRP:HD1	1.94	0.66
48:BQ:54:MET:O	48:BQ:56:ARG:N	2.29	0.66
50:BS:53:SER:H	50:BS:55:ALA:HB3	1.61	0.66
52:BU:97:ASP:O	52:BU:100:VAL:HB	1.96	0.66
52:BU:9:VAL:C	52:BU:13:LYS:HE2	2.16	0.66
54:BW:72:LYS:CE	54:BW:108:GLY:HA3	2.26	0.66
55:BX:55:ASN:HB2	55:BX:80:ILE:CG1	2.26	0.66
1:AA:520:A:N6	1:AA:521:G:C2	2.64	0.66
1:AA:799:G:H2'	1:AA:800:G:H8	1.59	0.66
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.31	0.66
4:AD:26:CYS:O	4:AD:31:CYS:HB2	1.96	0.66
9:AI:126:SER:O	9:AI:127:LYS:HB3	1.95	0.66
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:49:G:N3	22:AV:50:U:C6	2.64	0.66
24:AY:99:THR:HA	24:AY:102:THR:HG1	1.59	0.66
24:AY:197:LYS:CG	24:AY:202:GLN:HG3	2.25	0.66
24:AY:246:PHE:CE2	24:AY:247:LEU:HD23	2.31	0.66
24:AY:449:VAL:HG21	24:AY:463:TYR:OH	1.96	0.66
35:BA:1007:C:OP1	45:BN:35:ARG:NH1	2.29	0.66
35:BA:1317:A:H61	35:BA:1335:U:H3	1.44	0.66
35:BA:1579:A:H2'	35:BA:1580:A:C8	2.31	0.66
35:BA:1922:G:H2'	35:BA:1923:U:H5'	1.77	0.66
35:BA:1934:C:C2'	35:BA:1935:G:H5'	2.26	0.66
35:BA:1131:G:N7	35:BA:2025:C:H1'	2.10	0.66
35:BA:2530:A:C2'	35:BA:2531:A:H5''	2.24	0.66
35:BA:2628:C:H1'	35:BA:2781:A:C2'	2.19	0.66
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.78	0.66
35:BA:292:C:C2	35:BA:349:G:N2	2.64	0.66
35:BA:864:G:H2'	35:BA:865:C:C6	2.30	0.66
36:BB:98:G:C5	36:BB:99:G:N7	2.64	0.66
37:BC:30:LYS:NZ	37:BC:30:LYS:HA	2.11	0.66
41:BG:11:TYR:HA	41:BG:15:VAL:CG2	2.26	0.66
57:BZ:130:PRO:HA	57:BZ:133:ILE:HD11	1.78	0.66
1:AA:1515:C:O2'	1:AA:1516:G:H5'	1.96	0.65
1:AA:258:G:H2'	1:AA:259:G:C8	2.31	0.65
1:AA:625:G:H5'	16:AP:10:GLY:HA2	1.77	0.65
1:AA:687:A:N3	1:AA:688:G:H1'	2.11	0.65
1:AA:774:G:O2'	1:AA:775:G:H5'	1.96	0.65
1:AA:933:G:C2	1:AA:1385:G:C2	2.84	0.65
3:AC:108:ASN:HB3	3:AC:111:LEU:HB2	1.78	0.65
15:AO:57:LEU:HB2	15:AO:58:MET:SD	2.36	0.65
19:AS:21:GLU:HG3	19:AS:22:LEU:N	2.09	0.65
19:AS:24:ALA:O	19:AS:25:LYS:HG3	1.95	0.65
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.11	0.65
19:AS:47:HIS:CD2	29:B4:47:GLN:HB2	2.30	0.65
24:AY:138:LEU:HD22	24:AY:253:PRO:HG3	1.75	0.65
29:B4:5:ILE:H	29:B4:5:ILE:HD13	1.61	0.65
35:BA:1277:G:O2'	49:BR:24:GLN:HG2	1.97	0.65
35:BA:132:G:H2'	35:BA:133:C:O4'	1.95	0.65
35:BA:1564:C:O2'	35:BA:1565:C:H5'	1.97	0.65
35:BA:2014:A:H2'	35:BA:2015:A:C8	2.30	0.65
35:BA:677:A:H2'	35:BA:678:C:C6	2.31	0.65
36:BB:101:G:H2'	36:BB:102:A:C8	2.31	0.65
36:BB:23:G:C2	36:BB:61:G:C2	2.84	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:98:G:C4	36:BB:99:G:C8	2.84	0.65
38:BD:226:MET:O	38:BD:227:ASN:OD1	2.13	0.65
39:BE:172:VAL:O	39:BE:173:VAL:C	2.34	0.65
40:BF:102:PRO:HB2	40:BF:105:VAL:CG2	2.26	0.65
49:BR:17:ARG:CB	49:BR:17:ARG:NH1	2.60	0.65
49:BR:76:VAL:CG2	49:BR:80:PHE:HE2	2.08	0.65
52:BU:96:ALA:O	52:BU:98:LEU:N	2.29	0.65
55:BX:50:LYS:HB3	55:BX:87:GLN:HE22	1.59	0.65
1:AA:230:G:OP1	16:AP:33:ILE:CD1	2.44	0.65
1:AA:53:A:C2	1:AA:359:U:O2	2.49	0.65
1:AA:650:G:O2'	1:AA:651:C:H5'	1.95	0.65
1:AA:978:A:HO2'	1:AA:979:C:H6	1.44	0.65
2:AB:171:ALA:O	2:AB:174:VAL:HB	1.96	0.65
2:AB:59:GLU:HB2	2:AB:221:LEU:HD11	1.78	0.65
3:AC:137:ALA:HA	3:AC:140:ARG:NH1	2.11	0.65
3:AC:55:VAL:HG22	3:AC:68:VAL:HG13	1.77	0.65
6:AF:25:ILE:CA	6:AF:28:ARG:NH1	2.55	0.65
7:AG:151:TYR:HA	7:AG:153:HIS:CE1	2.31	0.65
8:AH:32:LYS:O	8:AH:35:ILE:HB	1.95	0.65
22:AV:74:C:H2'	22:AV:75:C:H5'	1.78	0.65
35:BA:1678:G:O5'	35:BA:1678:G:C8	2.45	0.65
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.60	0.65
35:BA:2066:C:C2	35:BA:2067:G:N7	2.64	0.65
35:BA:2393:A:H2'	35:BA:2394:C:C6	2.24	0.65
35:BA:2715:C:H2'	35:BA:2716:U:C6	2.31	0.65
38:BD:181:GLU:CG	38:BD:272:ALA:HB1	2.26	0.65
38:BD:65:ILE:HD11	38:BD:88:ARG:HD3	1.77	0.65
42:BH:35:VAL:CG1	42:BH:72:ILE:CD1	2.73	0.65
45:BN:52:VAL:HG12	45:BN:53:VAL:N	2.10	0.65
45:BN:67:LEU:HA	45:BN:87:LEU:HD12	1.78	0.65
49:BR:71:GLN:CA	49:BR:71:GLN:HE21	2.07	0.65
54:BW:65:LEU:HD23	54:BW:68:ARG:NE	2.10	0.65
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.30	0.65
1:AA:1265:G:C4	1:AA:1266:G:N7	2.64	0.65
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.11	0.65
1:AA:196:A:N3	1:AA:222:U:H1'	2.11	0.65
1:AA:295:C:N3	1:AA:303:A:C2	2.65	0.65
1:AA:60:A:H4'	1:AA:61:G:O5'	1.96	0.65
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	2.12	0.65
11:AK:126:ARG:C	11:AK:128:ALA:N	2.48	0.65
13:AM:29:ARG:NH2	13:AM:64:TRP:HB3	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:39:LEU:HB3	15:AO:56:LEU:CD2	2.21	0.65
18:AR:67:ALA:O	18:AR:71:LYS:HG3	1.95	0.65
22:AV:17(A):U:H4'	22:AV:18:G:OP1	1.95	0.65
24:AY:109:CYS:CB	24:AY:137:ILE:CG2	2.47	0.65
24:AY:417:VAL:O	24:AY:421:GLU:N	2.25	0.65
35:BA:2101:G:H2'	35:BA:2102:U:C4'	2.26	0.65
35:BA:2306:C:H5	35:BA:2307:G:HO2'	1.42	0.65
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.78	0.65
35:BA:285:C:H2'	35:BA:286:C:C6	2.30	0.65
35:BA:720:C:H2'	35:BA:721:C:H4'	1.78	0.65
37:BC:7:TYR:O	37:BC:10:LEU:HB2	1.96	0.65
38:BD:224:ALA:HA	38:BD:233:HIS:HB2	1.78	0.65
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.77	0.65
40:BF:82:ILE:CG1	40:BF:83:PHE:N	2.58	0.65
51:BT:16:ARG:HH12	51:BT:19:LEU:HG	1.61	0.65
48:BQ:140:ALA:HB1	57:BZ:99:TYR:HD2	1.61	0.65
1:AA:1316:G:O3'	14:AN:18:VAL:HG22	1.95	0.65
1:AA:319:G:H4'	1:AA:1468:A:H4'	1.77	0.65
1:AA:597:G:N2	8:AH:94:TYR:CE2	2.64	0.65
1:AA:798:G:C6	1:AA:799:G:N7	2.65	0.65
1:AA:824:C:H2'	1:AA:825:G:H8	1.62	0.65
3:AC:123:GLN:HB3	3:AC:128:PHE:CD2	2.28	0.65
4:AD:96:LEU:N	4:AD:96:LEU:HD12	2.11	0.65
6:AF:47:ARG:CB	6:AF:47:ARG:CZ	2.73	0.65
11:AK:20:TYR:CE1	11:AK:83:ILE:HD12	2.32	0.65
11:AK:82:VAL:HG22	11:AK:83:ILE:N	2.11	0.65
15:AO:27:VAL:O	15:AO:30:ALA:N	2.29	0.65
17:AQ:13:ASP:O	17:AQ:15:MET:N	2.28	0.65
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	1.77	0.65
35:BA:1910:G:H1	35:BA:1920:C:N4	1.94	0.65
35:BA:205:G:O2'	35:BA:206:U:OP2	2.13	0.65
35:BA:918:A:N1	35:BA:919:G:H1'	2.12	0.65
35:BA:1789:A:C5'	38:BD:221:VAL:HG12	2.26	0.65
35:BA:2223:G:H5''	38:BD:269:PHE:CZ	2.32	0.65
35:BA:1824:G:OP1	38:BD:52:ARG:CD	2.43	0.65
39:BE:105:THR:HG22	39:BE:106:GLY:N	2.11	0.65
39:BE:24:THR:HB	39:BE:184:VAL:HG23	1.79	0.65
39:BE:9:VAL:HG11	39:BE:25:VAL:HB	1.77	0.65
40:BF:202:PHE:O	40:BF:205:ARG:HB3	1.95	0.65
41:BG:58:GLN:O	41:BG:61:ALA:HB3	1.96	0.65
41:BG:96:ARG:O	41:BG:97:ASP:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:4:PRO:HB3	46:BO:22:ILE:O	1.97	0.65
47:BP:50:ARG:HG2	47:BP:50:ARG:HH11	1.62	0.65
47:BP:97:PRO:C	47:BP:99:LEU:N	2.50	0.65
53:BV:5:VAL:HG21	53:BV:35:LEU:CB	2.26	0.65
57:BZ:122:ARG:NH1	57:BZ:122:ARG:HG2	2.05	0.65
1:AA:1527:C:O2'	1:AA:1528:U:H5'	1.96	0.65
1:AA:589:C:H1'	1:AA:653:A:N6	2.11	0.65
1:AA:832:C:O2'	1:AA:833:U:H5'	1.97	0.65
2:AB:106:LYS:HD3	2:AB:106:LYS:H	1.61	0.65
2:AB:97:TRP:HZ3	2:AB:172:ILE:CG2	2.09	0.65
3:AC:6:HIS:HD2	3:AC:8:ILE:HB	1.61	0.65
4:AD:5:ILE:HA	4:AD:115:ARG:HH12	1.60	0.65
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.96	0.65
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.61	0.65
10:AJ:53:PRO:CA	14:AN:41:ARG:NH2	2.58	0.65
22:AV:58:A:C6	22:AV:61:C:C4	2.85	0.65
24:AY:168:PRO:CB	24:AY:171:TRP:HZ2	2.02	0.65
30:B5:15:ARG:O	30:B5:18:ALA:HB3	1.97	0.65
35:BA:1372:U:O2'	35:BA:1373:A:H5'	1.96	0.65
35:BA:1999:C:H2'	35:BA:2000:G:C8	2.31	0.65
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.59	0.65
38:BD:181:GLU:C	38:BD:272:ALA:HB1	2.17	0.65
39:BE:179:GLU:HG3	39:BE:179:GLU:O	1.97	0.65
39:BE:51:PHE:O	39:BE:53:PRO:N	2.30	0.65
35:BA:616:G:H5''	40:BF:103:LYS:NZ	2.10	0.65
40:BF:33:LEU:HD21	40:BF:112:MET:SD	2.37	0.65
40:BF:154:VAL:HG13	40:BF:191:ARG:HB3	1.79	0.65
41:BG:117:PHE:O	41:BG:118:ARG:HG3	1.97	0.65
41:BG:67:LYS:HZ2	41:BG:67:LYS:H	1.42	0.65
45:BN:12:ARG:HB3	45:BN:50:ASP:OD2	1.97	0.65
46:BO:26:LYS:HB2	46:BO:30:ALA:HB3	1.79	0.65
46:BO:17:ARG:HH21	46:BO:99:PHE:HE2	1.44	0.65
48:BQ:60:ARG:HH11	48:BQ:60:ARG:HB2	1.61	0.65
48:BQ:63:LYS:NZ	57:BZ:175:VAL:HG11	2.10	0.65
52:BU:92:ARG:CD	52:BU:94:ASN:HB3	2.22	0.65
36:BB:105:A:H4'	57:BZ:89:PHE:CE1	2.31	0.65
57:BZ:99:TYR:HA	57:BZ:124:ILE:O	1.96	0.65
1:AA:1009:G:H2'	1:AA:1010:G:C8	2.32	0.65
1:AA:14:U:H2'	1:AA:16:A:OP2	1.95	0.65
1:AA:32:A:P	1:AA:398:C:H1'	2.36	0.65
1:AA:515:G:O2'	1:AA:516:U:H5'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:781:A:H4'	1:AA:1522:U:O2'	1.97	0.65
1:AA:817:C:C5	1:AA:819:A:H1'	2.32	0.65
2:AB:153:ARG:HG3	2:AB:154:LEU:N	2.10	0.65
10:AJ:35:SER:OG	10:AJ:73:ASP:HB2	1.97	0.65
11:AK:79:SER:O	11:AK:80:VAL:HG13	1.96	0.65
24:AY:412:LEU:CD2	24:AY:436:LEU:HD12	2.26	0.65
24:AY:89:THR:HB	24:AY:99:THR:CG2	2.26	0.65
31:B6:42:TRP:O	31:B6:44:ARG:N	2.29	0.65
35:BA:324:A:OP2	35:BA:1205:U:N3	2.30	0.65
35:BA:1241:A:N6	35:BA:1242:A:N6	2.44	0.65
35:BA:1991:U:H2'	35:BA:1992:G:H5''	1.78	0.65
35:BA:2350:C:H2'	35:BA:2351:G:O4'	1.96	0.65
35:BA:2619:C:O2'	35:BA:2620:C:H5'	1.97	0.65
35:BA:2760:C:H2'	35:BA:2761:G:H5''	1.79	0.65
35:BA:396:G:H8	35:BA:396:G:O5'	1.80	0.65
35:BA:81:G:H21	56:BY:2:ARG:NH1	1.92	0.65
35:BA:61:G:H1	35:BA:94:C:H42	1.45	0.65
38:BD:111:LEU:HD12	38:BD:112:GLN:N	2.10	0.65
38:BD:78:LYS:O	38:BD:95:LEU:HA	1.97	0.65
41:BG:115:ARG:HH22	41:BG:136:ARG:CB	2.09	0.65
35:BA:811:U:H6	47:BP:24:GLY:O	1.77	0.65
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CG	2.32	0.65
48:BQ:72:LYS:HB3	48:BQ:94:VAL:HG22	1.78	0.65
56:BY:86:ARG:C	56:BY:88:LYS:HZ2	2.00	0.65
1:AA:22:G:H4'	1:AA:885:G:C8	2.31	0.65
1:AA:959:A:H2'	1:AA:960:U:H4'	1.79	0.65
2:AB:102:LEU:CD1	2:AB:102:LEU:N	2.59	0.65
4:AD:201:GLN:O	4:AD:205:GLU:HG3	1.96	0.65
6:AF:80:ARG:HG2	6:AF:88:VAL:HG21	1.77	0.65
10:AJ:28:ARG:C	10:AJ:30:SER:H	1.99	0.65
10:AJ:53:PRO:HB3	14:AN:42:ILE:HG13	1.79	0.65
1:AA:1152:A:OP1	10:AJ:70:ARG:NH2	2.30	0.65
12:AL:102:ARG:NH2	12:AL:110:VAL:HG22	2.12	0.65
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG2	1.77	0.65
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	1.97	0.65
19:AS:41:VAL:HB	19:AS:44:MET:HG2	1.79	0.65
22:AV:59:A:H2'	22:AV:60:U:H5'	1.76	0.65
24:AY:138:LEU:CD1	24:AY:268:MET:SD	2.85	0.65
24:AY:246:PHE:HA	24:AY:251:ILE:CG1	2.26	0.65
24:AY:389:GLY:O	24:AY:390:ILE:CG1	2.44	0.65
35:BA:1013:C:H2'	35:BA:1014:U:H5'	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1376:C:C2'	35:BA:1377:G:H5'	2.27	0.65
35:BA:1914:C:C5'	35:BA:1914:C:O2	2.45	0.65
35:BA:2319:G:H1'	35:BA:2320:A:C8	2.32	0.65
35:BA:745:G:H2'	35:BA:746:A:H5'	1.79	0.65
37:BC:74:VAL:HG13	37:BC:112:ALA:HB3	1.79	0.65
39:BE:35:GLN:O	39:BE:36:ARG:HD2	1.96	0.65
39:BE:51:PHE:H	39:BE:74:PRO:HG3	1.61	0.65
40:BF:203:GLN:C	40:BF:205:ARG:H	2.00	0.65
47:BP:86:LYS:HB2	47:BP:117:GLU:O	1.97	0.65
47:BP:88:LEU:CD2	47:BP:125:VAL:HG21	2.24	0.65
54:BW:21:VAL:O	54:BW:24:ILE:HG12	1.97	0.65
1:AA:1423:G:H5''	46:BO:49:ARG:HH12	1.62	0.65
1:AA:291:C:H2'	1:AA:292:G:C8	2.32	0.65
1:AA:484:G:H4'	1:AA:485:G:O5'	1.97	0.65
1:AA:774:G:C4	1:AA:775:G:C8	2.85	0.65
9:AI:55:ALA:HB1	9:AI:59:PHE:HE2	1.60	0.65
10:AJ:54:PHE:CE2	10:AJ:55:LYS:HD2	2.32	0.65
10:AJ:64:GLU:HG2	14:AN:59:ALA:HA	1.78	0.65
17:AQ:82:MET:O	17:AQ:86:GLU:HG2	1.96	0.65
18:AR:36:ASN:HA	18:AR:38:GLU:OE2	1.96	0.65
22:AV:20:U:C2'	22:AV:21:A:H4'	2.27	0.65
24:AY:517:ARG:HG2	24:AY:517:ARG:HH11	1.62	0.65
24:AY:16:PHE:HE2	24:AY:84:VAL:CG1	2.09	0.65
35:BA:1103:A:H5'	35:BA:1104:C:OP2	1.95	0.65
35:BA:1607:C:H4'	35:BA:1608:A:C5'	2.27	0.65
35:BA:1791:A:N6	35:BA:1829:A:H5'	2.12	0.65
35:BA:2060:A:H2'	40:BF:68:LYS:HE2	1.78	0.65
35:BA:2152:G:O2'	35:BA:2153:G:H5'	1.97	0.65
35:BA:2180:U:H2'	35:BA:2181:G:H8	1.61	0.65
35:BA:303:U:H2'	35:BA:304:G:C8	2.31	0.65
35:BA:329:G:H1'	35:BA:477:A:H1'	1.77	0.65
35:BA:751:A:C5	35:BA:789:A:C6	2.85	0.65
37:BC:39:GLU:O	37:BC:178:ALA:N	2.30	0.65
35:BA:2073:C:O3'	38:BD:228:PRO:HB2	1.96	0.65
49:BR:58:GLY:HA2	49:BR:80:PHE:CE1	2.32	0.65
51:BT:80:SER:CB	51:BT:81:PRO:CD	2.73	0.65
53:BV:32:THR:HG22	53:BV:33:VAL:N	2.11	0.65
53:BV:91:TYR:HD1	53:BV:92:THR:N	1.95	0.65
55:BX:10:ALA:O	55:BX:28:PHE:HB2	1.96	0.65
57:BZ:108:PRO:HA	57:BZ:141:VAL:CG1	2.27	0.65
1:AA:1299:A:N3	1:AA:1299:A:H5''	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:28:G:N2	1:AA:556:C:N3	2.45	0.65
1:AA:658:G:O2'	1:AA:659:U:H5'	1.96	0.65
10:AJ:50:ILE:HD13	10:AJ:50:ILE:N	2.10	0.65
15:AO:36:ILE:HD12	15:AO:60:VAL:HG22	1.78	0.65
18:AR:44:LEU:O	18:AR:45:SER:O	2.14	0.65
1:AA:1318:A:C1'	19:AS:37:ARG:NH2	2.57	0.65
24:AY:173:ILE:HA	24:AY:227:LEU:HD11	1.77	0.65
24:AY:368:HIS:O	24:AY:369:ASN:HB2	1.96	0.65
27:B2:36:ARG:O	27:B2:39:ALA:HB3	1.97	0.65
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.10	0.65
35:BA:1663:C:HO2'	35:BA:1664:A:H8	1.45	0.65
35:BA:2365:G:O2'	35:BA:2366:A:C8	2.50	0.65
35:BA:957:A:H2	35:BA:2459:A:OP1	1.80	0.65
35:BA:746:A:H2'	35:BA:2612:C:H5''	1.78	0.65
37:BC:111:ASP:O	37:BC:136:LEU:HD21	1.97	0.65
37:BC:115:ALA:HB3	37:BC:120:MET:HE3	1.78	0.65
37:BC:120:MET:HE1	37:BC:123:VAL:HG11	1.79	0.65
38:BD:33:LEU:CD2	38:BD:34:VAL:HG22	2.27	0.65
38:BD:4:LYS:O	38:BD:17:THR:HG23	1.97	0.65
35:BA:2578:G:C5	39:BE:140:SER:HB2	2.32	0.65
39:BE:199:ARG:HB2	39:BE:199:ARG:CZ	2.27	0.65
40:BF:154:VAL:HG11	40:BF:193:VAL:CG2	2.27	0.65
42:BH:103:LEU:HD22	42:BH:125:VAL:HG22	1.78	0.65
42:BH:94:TYR:CD1	42:BH:108:GLY:N	2.65	0.65
50:BS:89:ARG:HB3	50:BS:92:TYR:CB	2.26	0.65
51:BT:51:ARG:CG	51:BT:62:THR:OG1	2.38	0.65
54:BW:36:LEU:HD11	54:BW:47:VAL:HG12	1.78	0.65
57:BZ:166:SER:HB2	57:BZ:167:PRO:C	2.17	0.65
57:BZ:51:ALA:HA	57:BZ:55:HIS:CD2	2.19	0.65
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.78	0.65
1:AA:625:G:O2'	1:AA:626:U:H5'	1.97	0.65
1:AA:971:G:H4'	1:AA:972:C:H5''	1.78	0.65
2:AB:152:PHE:HD1	2:AB:153:ARG:H	1.45	0.65
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.62	0.65
3:AC:120:VAL:HG12	3:AC:121:ALA:N	2.11	0.65
3:AC:52:LEU:HB3	3:AC:70:VAL:HG22	1.78	0.65
7:AG:34:GLY:C	7:AG:36:LYS:H	2.00	0.65
12:AL:10:LEU:O	17:AQ:32:TYR:CE2	2.49	0.65
14:AN:13:THR:H	14:AN:14:PRO:HD2	1.54	0.65
25:B0:26:TYR:CE2	35:BA:857:C:H1'	2.32	0.65
25:B0:45:PHE:HB2	25:B0:59:LEU:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:32:LEU:O	27:B2:35:LEU:HB3	1.97	0.65
19:AS:26:GLY:HA2	29:B4:47:GLN:C	2.17	0.65
32:B7:37:LYS:NZ	35:BA:468:G:OP2	2.30	0.65
35:BA:1083:U:H1'	35:BA:1086:A:H61	1.61	0.65
35:BA:1149:G:O2'	35:BA:1150:C:H5'	1.96	0.65
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.62	0.65
35:BA:2334:G:H5'	50:BS:13:ARG:HD3	1.78	0.65
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	1.95	0.65
35:BA:2787:C:O2	35:BA:2787:C:H2'	1.95	0.65
35:BA:366:C:H5''	35:BA:403:U:N3	2.11	0.65
35:BA:45:C:OP2	35:BA:215:G:H5''	1.97	0.65
35:BA:560:C:H2'	35:BA:561:G:C8	2.32	0.65
35:BA:887:A:N3	35:BA:887:A:H2'	2.11	0.65
37:BC:180:PHE:HB3	37:BC:184:LYS:CB	2.23	0.65
37:BC:192:PHE:CZ	37:BC:196:LEU:HD11	2.32	0.65
38:BD:265:PRO:O	38:BD:267:SER:O	2.15	0.65
38:BD:63:ARG:O	38:BD:64:ILE:O	2.15	0.65
40:BF:81:PRO:O	40:BF:82:ILE:O	2.14	0.65
42:BH:147:ASN:O	42:BH:151:ILE:HD11	1.97	0.65
42:BH:37:VAL:HG22	42:BH:72:ILE:CD1	2.26	0.65
46:BO:120:GLU:HB2	51:BT:68:TYR:CE2	2.32	0.65
51:BT:53:ARG:O	51:BT:59:THR:HA	1.97	0.65
53:BV:46:VAL:O	53:BV:48:GLY:N	2.30	0.65
55:BX:50:LYS:O	55:BX:83:VAL:HA	1.97	0.65
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.27	0.64
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.32	0.64
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.61	0.64
1:AA:726:C:O2'	1:AA:727:G:H5'	1.97	0.64
3:AC:120:VAL:O	3:AC:122:GLU:N	2.29	0.64
1:AA:1151:A:N3	10:AJ:39:PRO:HG3	2.12	0.64
1:AA:1060:C:H4'	10:AJ:51:ARG:HB3	1.78	0.64
13:AM:56:LEU:CD1	13:AM:60:VAL:HG21	2.26	0.64
1:AA:1359:C:C6	14:AN:35:ARG:NH2	2.65	0.64
24:AY:123:THR:HA	24:AY:126:LEU:HD12	1.79	0.64
35:BA:1530:C:H2'	35:BA:1531:C:C6	2.32	0.64
35:BA:1661:G:O2'	35:BA:1662:C:H5'	1.97	0.64
35:BA:1925:C:H2'	35:BA:1926:U:H5'	1.78	0.64
35:BA:2645:G:H8	35:BA:2645:G:OP2	1.78	0.64
35:BA:629:G:H5'	35:BA:629:G:C8	2.31	0.64
35:BA:877:U:C2'	35:BA:878:A:H5''	2.27	0.64
38:BD:121:PRO:C	38:BD:123:ALA:H	2.00	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:148:GLU:CB	38:BD:151:LYS:HD3	2.22	0.64
35:BA:1820:U:O2	38:BD:201:HIS:HB3	1.97	0.64
39:BE:25:VAL:HG22	39:BE:183:LEU:CD1	2.27	0.64
39:BE:62:PRO:C	39:BE:64:LYS:N	2.48	0.64
42:BH:18:GLU:HB2	42:BH:25:LYS:HG3	1.80	0.64
45:BN:23:LEU:O	45:BN:25:ARG:N	2.30	0.64
46:BO:11:ALA:O	46:BO:98:VAL:HG23	1.97	0.64
47:BP:112:LEU:O	47:BP:128:HIS:HB2	1.98	0.64
48:BQ:27:VAL:HG23	48:BQ:137:TYR:CD2	2.32	0.64
49:BR:48:VAL:HA	49:BR:51:LEU:CB	2.26	0.64
1:AA:1081:G:O2'	1:AA:1082:G:H5'	1.96	0.64
1:AA:109:A:O3'	1:AA:110:C:H6	1.81	0.64
1:AA:1251:A:O2'	1:AA:1252:A:H5'	1.96	0.64
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.32	0.64
1:AA:33:A:OP2	1:AA:398:C:H5'	1.98	0.64
2:AB:138:LEU:HD23	2:AB:138:LEU:N	2.11	0.64
2:AB:92:TYR:HD1	2:AB:93:VAL:N	1.95	0.64
4:AD:96:LEU:HA	4:AD:99:SER:HB2	1.79	0.64
5:AE:94:ALA:HB1	5:AE:98:THR:HG21	1.79	0.64
9:AI:100:GLY:O	9:AI:103:THR:N	2.30	0.64
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.30	0.64
13:AM:78:ILE:HG22	13:AM:79:LYS:N	2.12	0.64
18:AR:45:SER:OG	18:AR:49:LYS:HB2	1.97	0.64
24:AY:6:TYR:HA	24:AY:360:TYR:CE2	2.28	0.64
24:AY:488:LYS:HD3	24:AY:518:TYR:OH	1.98	0.64
33:B8:8:LYS:HZ3	33:B8:11:LYS:HZ1	1.42	0.64
35:BA:1922:G:H2'	35:BA:1923:U:H6	1.62	0.64
35:BA:2076:U:O2	35:BA:2076:U:H2'	1.96	0.64
35:BA:2080:G:C2	35:BA:2241:A:C2	2.85	0.64
35:BA:253:C:O2'	35:BA:254:G:H5'	1.98	0.64
35:BA:398:G:H2'	35:BA:399:G:C8	2.33	0.64
35:BA:673:C:C2'	35:BA:674:G:H5'	2.28	0.64
35:BA:744:G:H2'	35:BA:745:G:O4'	1.97	0.64
37:BC:181:PRO:HB2	37:BC:182:PRO:CD	2.28	0.64
38:BD:69:ARG:NH2	38:BD:105:ILE:HG13	2.12	0.64
38:BD:123:ALA:HB3	38:BD:131:LEU:HD21	1.77	0.64
38:BD:125:ILE:HD12	38:BD:137:PRO:CD	2.26	0.64
38:BD:267:SER:HA	38:BD:270:ILE:HG13	1.79	0.64
38:BD:65:ILE:HB	38:BD:67:PHE:CE2	2.31	0.64
39:BE:111:ARG:HD2	39:BE:161:GLY:HA3	1.79	0.64
35:BA:2679:A:P	39:BE:160:TYR:HH	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:43:LYS:HG3	40:BF:43:LYS:O	1.97	0.64
41:BG:16:ARG:NH1	41:BG:28:VAL:HG13	2.11	0.64
42:BH:41:MET:CG	42:BH:42:ARG:N	2.59	0.64
42:BH:65:HIS:C	42:BH:67:LEU:H	1.99	0.64
57:BZ:28:MET:HG3	57:BZ:37:VAL:HG11	1.79	0.64
57:BZ:96:VAL:HG12	57:BZ:130:PRO:HG3	1.80	0.64
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.32	0.64
1:AA:719:C:H3'	1:AA:720:C:C6	2.32	0.64
1:AA:783:C:O5'	1:AA:783:C:H6	1.79	0.64
2:AB:136:VAL:O	2:AB:140:HIS:HB2	1.97	0.64
8:AH:5:PRO:O	8:AH:8:ASP:CB	2.45	0.64
18:AR:30:ASP:OD2	18:AR:32:ARG:HB3	1.97	0.64
32:B7:16:HIS:CA	32:B7:21:ARG:HH12	2.10	0.64
32:B7:7:PRO:HG3	35:BA:1612:C:H5'	1.78	0.64
35:BA:2158:A:H4'	35:BA:2159:G:H5'	1.77	0.64
35:BA:2634:G:H2'	35:BA:2635:C:C6	2.33	0.64
37:BC:91:ALA:HB2	37:BC:153:ILE:HG21	1.79	0.64
35:BA:443:A:N6	40:BF:41:LEU:O	2.24	0.64
46:BO:6:THR:HG22	46:BO:7:TYR:H	1.62	0.64
46:BO:85:VAL:HG21	46:BO:114:ILE:HG12	1.79	0.64
46:BO:11:ALA:HB1	46:BO:99:PHE:O	1.97	0.64
30:B5:25:LEU:HD12	54:BW:23:LEU:HB2	1.79	0.64
57:BZ:77:ASP:O	57:BZ:79:ARG:N	2.30	0.64
1:AA:1075:C:H4'	1:AA:1101:A:H62	1.62	0.64
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.32	0.64
1:AA:720:C:H3'	1:AA:721:G:C8	2.32	0.64
1:AA:937:A:H2'	1:AA:938:A:C8	2.31	0.64
2:AB:157:ARG:CZ	2:AB:157:ARG:HB3	2.28	0.64
4:AD:15:GLU:OE2	4:AD:66:ARG:NH1	2.30	0.64
9:AI:46:ALA:HB1	9:AI:77:ILE:HG22	1.79	0.64
11:AK:82:VAL:HG22	11:AK:83:ILE:H	1.62	0.64
12:AL:45:PRO:HD2	12:AL:51:ALA:H	1.61	0.64
15:AO:42:HIS:HD2	15:AO:42:HIS:O	1.80	0.64
17:AQ:75:ARG:HG3	17:AQ:75:ARG:NH1	2.10	0.64
17:AQ:8:GLY:HA3	17:AQ:21:VAL:HG12	1.80	0.64
24:AY:247:LEU:O	24:AY:249:GLY:N	2.30	0.64
24:AY:402:ARG:HG2	24:AY:403:LEU:N	2.12	0.64
24:AY:431:ILE:N	24:AY:431:ILE:HD13	2.09	0.64
35:BA:1165:U:H2'	35:BA:1166:C:C6	2.32	0.64
35:BA:1267:U:H2'	35:BA:1268:A:C8	2.33	0.64
35:BA:154:G:H2'	35:BA:154(A):C:C6	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1652:A:H2'	35:BA:1653:G:C8	2.32	0.64
35:BA:1656:C:H2'	35:BA:1657:C:C6	2.31	0.64
35:BA:18:C:O3'	52:BU:23:GLY:HA2	1.98	0.64
26:B1:19:GLN:NE2	35:BA:2081:C:OP1	2.30	0.64
35:BA:1889:A:H1'	35:BA:2087:G:O4'	1.97	0.64
35:BA:498:G:H2'	35:BA:499:U:H6	1.63	0.64
35:BA:963:U:H2'	35:BA:964:C:C6	2.33	0.64
38:BD:24:ILE:HG22	38:BD:25:THR:N	2.11	0.64
39:BE:81:ILE:O	39:BE:81:ILE:HG22	1.97	0.64
41:BG:139:LEU:HD22	41:BG:146:TYR:HB3	1.79	0.64
42:BH:162:ILE:CD1	42:BH:162:ILE:O	2.45	0.64
43:BJ:121:UNK:O	43:BJ:122:UNK:O	2.15	0.64
46:BO:36:GLY:HA3	46:BO:109:LYS:HE3	1.79	0.64
46:BO:7:TYR:C	46:BO:8:LEU:HD12	2.18	0.64
47:BP:101:VAL:CG2	47:BP:102:ARG:H	2.09	0.64
47:BP:95:VAL:HG23	47:BP:125:VAL:HG23	1.79	0.64
52:BU:83:LEU:H	52:BU:83:LEU:HD12	1.62	0.64
57:BZ:7:ALA:HB3	57:BZ:61:LEU:CD2	2.28	0.64
2:AB:17:PHE:CD1	2:AB:17:PHE:O	2.48	0.64
3:AC:128:PHE:O	3:AC:130:VAL:N	2.31	0.64
1:AA:403:C:H4'	4:AD:122:ARG:CZ	2.27	0.64
4:AD:80:GLU:OE1	4:AD:80:GLU:HA	1.97	0.64
8:AH:48:TYR:O	8:AH:49:GLU:HB3	1.98	0.64
11:AK:62:GLN:HG3	11:AK:66:LEU:HD21	1.79	0.64
12:AL:36:VAL:HG12	12:AL:82:VAL:HA	1.78	0.64
16:AP:21:VAL:HG11	16:AP:59:TRP:HE1	1.61	0.64
19:AS:47:HIS:O	19:AS:62:ILE:HG22	1.97	0.64
24:AY:115:ALA:CB	24:AY:148:ILE:HB	2.28	0.64
24:AY:241:PHE:HZ	24:AY:275:TRP:CD1	2.16	0.64
32:B7:18:PHE:CZ	32:B7:22:MET:SD	2.90	0.64
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.33	0.64
35:BA:1495:A:H3'	35:BA:1496:A:C2	2.32	0.64
35:BA:1310:G:O4'	35:BA:1611:C:H4'	1.97	0.64
35:BA:1925:C:H2'	35:BA:1925:C:O2	1.97	0.64
35:BA:2716:U:H2'	35:BA:2717:G:C8	2.32	0.64
32:B7:12:ARG:NH2	35:BA:465:G:OP1	2.25	0.64
35:BA:783:A:C8	35:BA:784:A:H4'	2.33	0.64
39:BE:31:CYS:O	39:BE:49:LEU:HD12	1.97	0.64
45:BN:74:ARG:HH21	45:BN:83:LYS:HD3	1.63	0.64
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.57	0.64
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:259:G:O2'	1:AA:260:G:H5'	1.97	0.64
1:AA:436:C:H2'	1:AA:437:U:C6	2.33	0.64
2:AB:87:ARG:HE	2:AB:233:SER:HB3	1.62	0.64
4:AD:64:LEU:HD22	4:AD:203:VAL:HG21	1.78	0.64
1:AA:1495:U:OP1	13:AM:125:ARG:HD3	1.98	0.64
13:AM:40:ASN:HD22	13:AM:43:THR:CG2	2.11	0.64
14:AN:12:ARG:HB3	14:AN:14:PRO:CD	2.26	0.64
1:AA:390:C:C4'	16:AP:28:ARG:HH21	2.05	0.64
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.98	0.64
18:AR:56:THR:CB	18:AR:58:LEU:HD12	2.27	0.64
24:AY:369:ASN:HB2	24:AY:373:ILE:CG1	2.26	0.64
24:AY:420:SER:C	24:AY:422:GLU:N	2.48	0.64
26:B1:50:ARG:HG2	26:B1:59:THR:HG22	1.80	0.64
35:BA:1407:C:H5'	35:BA:1408:C:OP2	1.97	0.64
35:BA:145:G:H3'	35:BA:146:G:H5''	1.78	0.64
35:BA:2323:G:O2'	35:BA:2324:C:H5'	1.97	0.64
35:BA:2346:A:H5'	35:BA:2383:G:C1'	2.27	0.64
25:B0:33:ALA:O	35:BA:2352:A:C2	2.50	0.64
35:BA:2523:G:O4'	35:BA:2765:A:N7	2.31	0.64
35:BA:2539:C:O2'	35:BA:2540:C:H5'	1.98	0.64
35:BA:2729:G:H1'	39:BE:187:ALA:HB2	1.78	0.64
35:BA:310:A:O2'	35:BA:311:A:H2'	1.97	0.64
35:BA:584:C:OP1	52:BU:5:LYS:HB2	1.97	0.64
36:BB:22:U:H2'	36:BB:23:G:C8	2.32	0.64
36:BB:75:G:H2'	57:BZ:85:HIS:HE1	1.63	0.64
37:BC:29:VAL:HG13	37:BC:222:VAL:HG21	1.80	0.64
39:BE:137:HIS:HB3	39:BE:138:PRO:CD	2.27	0.64
42:BH:104:GLU:HG3	42:BH:104:GLU:O	1.98	0.64
42:BH:154:PRO:O	42:BH:155:SER:CB	2.45	0.64
51:BT:30:VAL:HA	51:BT:44:ASP:HA	1.77	0.64
57:BZ:100:VAL:CG1	57:BZ:137:ILE:HG12	2.27	0.64
1:AA:1066:C:H5'	1:AA:1067:A:OP2	1.98	0.64
1:AA:106:C:N4	20:AT:14:LYS:NZ	2.45	0.64
1:AA:680:C:H2'	1:AA:681:C:C6	2.33	0.64
1:AA:751:U:H3'	1:AA:752:G:H8	1.62	0.64
1:AA:949:A:O2'	1:AA:950:U:H5'	1.98	0.64
2:AB:187:LEU:HD13	2:AB:205:ASP:HB3	1.79	0.64
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.13	0.64
5:AE:77:PRO:HG2	5:AE:142:LEU:HD22	1.79	0.64
15:AO:74:ASP:C	15:AO:74:ASP:OD1	2.35	0.64
16:AP:69:THR:CA	16:AP:72:ARG:HB3	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:22:LEU:HD13	19:AS:27:GLU:HB2	1.80	0.64
22:AV:1:C:C2'	22:AV:2:G:H5'	2.28	0.64
24:AY:144:LEU:H	24:AY:258:THR:HB	1.62	0.64
24:AY:303:ILE:HG12	24:AY:316:ALA:HB2	1.78	0.64
24:AY:32:LYS:O	24:AY:35:LEU:HB2	1.98	0.64
24:AY:401:ILE:HG12	24:AY:463:TYR:CE2	2.32	0.64
28:B3:5:LYS:HB3	28:B3:57:GLU:HB3	1.80	0.64
33:B8:37:SER:O	33:B8:41:ILE:HG22	1.98	0.64
35:BA:1350:C:N4	35:BA:1382:G:N1	2.45	0.64
35:BA:1384:A:N3	35:BA:1405:U:H1'	2.13	0.64
35:BA:1837:C:N3	35:BA:1899:G:C6	2.65	0.64
35:BA:966:G:O4'	35:BA:2267:A:N6	2.30	0.64
35:BA:2305:A:C2	35:BA:2306:C:C1'	2.80	0.64
35:BA:2283:C:N4	35:BA:2389:G:C5	2.66	0.64
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.46	0.64
35:BA:661:C:H2'	35:BA:662:G:C8	2.32	0.64
35:BA:894:C:O2'	35:BA:895:U:C6	2.49	0.64
35:BA:962:G:O2'	35:BA:963:U:H5'	1.97	0.64
38:BD:165:ILE:CD1	38:BD:165:ILE:N	2.61	0.64
35:BA:2599:G:N7	38:BD:236:GLY:HA2	2.13	0.64
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.80	0.64
41:BG:109:VAL:HG12	41:BG:110:ALA:N	2.11	0.64
45:BN:108:PRO:HG2	45:BN:113:GLY:HA3	1.79	0.64
48:BQ:97:VAL:HG13	48:BQ:101:ARG:HG2	1.79	0.64
49:BR:14:SER:HA	49:BR:17:ARG:HH21	1.62	0.64
35:BA:1754:C:H5'	51:BT:101:PHE:CZ	2.33	0.64
54:BW:29:LEU:CD2	54:BW:33:ARG:HD2	2.28	0.64
56:BY:63:LYS:HG2	56:BY:64:GLU:OE1	1.96	0.64
1:AA:429:U:H1'	1:AA:430:A:H5''	1.80	0.64
1:AA:958:A:H2	19:AS:54:GLY:O	1.81	0.64
2:AB:204:ASN:HD22	2:AB:205:ASP:N	1.95	0.64
5:AE:7:GLU:O	5:AE:8:GLU:HB3	1.97	0.64
8:AH:37:ARG:NH2	8:AH:41:ARG:HH22	1.95	0.64
12:AL:6:THR:H	12:AL:9:GLN:NE2	1.96	0.64
13:AM:60:VAL:HG12	13:AM:61:GLU:N	2.13	0.64
20:AT:26:ASN:O	20:AT:30:LYS:HB2	1.98	0.64
24:AY:259:ALA:O	24:AY:261:GLY:N	2.30	0.64
24:AY:449:VAL:O	24:AY:453:LEU:HG	1.98	0.64
35:BA:1313:U:H4'	35:BA:1333:C:OP2	1.97	0.64
35:BA:1478:G:H2'	35:BA:1479:G:H8	1.62	0.64
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1921:G:O2'	35:BA:1922:G:H5'	1.98	0.64
42:BH:41:MET:CE	42:BH:52:VAL:HG22	2.28	0.64
45:BN:47:ALA:H	45:BN:48:MET:HE2	1.61	0.64
47:BP:66:GLY:O	47:BP:67:MET:HB2	1.97	0.64
48:BQ:62:GLY:HA3	48:BQ:109:VAL:HG23	1.78	0.64
48:BQ:21:THR:OG1	48:BQ:99:PRO:O	2.16	0.64
49:BR:103:ARG:O	49:BR:111:LEU:CD1	2.46	0.64
51:BT:35:LYS:NZ	51:BT:41:ARG:HD2	2.13	0.64
53:BV:74:LYS:O	53:BV:75:PHE:CB	2.45	0.64
56:BY:14:LEU:HA	56:BY:24:VAL:HG22	1.79	0.64
1:AA:185:A:H2'	1:AA:186:C:C6	2.33	0.64
1:AA:865:A:C2	1:AA:866:C:C2	2.86	0.64
3:AC:64:VAL:CG1	3:AC:66:VAL:HG23	2.28	0.64
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.13	0.64
7:AG:144:MET:O	7:AG:147:ALA:HB3	1.97	0.64
7:AG:54:THR:O	7:AG:56:GLN:N	2.31	0.64
11:AK:52:GLY:H	11:AK:55:LYS:HE3	1.62	0.64
25:B0:37:LEU:HD21	25:B0:60:PHE:C	2.19	0.64
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.32	0.64
35:BA:2168:G:H2'	35:BA:2170:A:OP2	1.96	0.64
35:BA:199:A:C6	35:BA:2433:A:H2'	2.33	0.64
35:BA:2437:U:H2'	35:BA:2438:U:H6	1.63	0.64
35:BA:553:G:O2'	35:BA:554:U:H5'	1.97	0.64
35:BA:632:A:H2'	35:BA:633:A:C8	2.33	0.64
35:BA:862:G:H2'	35:BA:863:A:C8	2.32	0.64
39:BE:103:ASP:OD2	39:BE:202:LYS:HE3	1.98	0.64
40:BF:155:LEU:HD11	40:BF:176:LEU:HD13	1.80	0.64
49:BR:62:ALA:HA	49:BR:65:LEU:CB	2.28	0.64
50:BS:58:LEU:HG	50:BS:59:LYS:H	1.61	0.64
57:BZ:108:PRO:HA	57:BZ:141:VAL:HG12	1.80	0.64
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.12	0.64
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.63	0.64
1:AA:243:A:C2	1:AA:246:A:C8	2.86	0.64
1:AA:622:A:C8	1:AA:623:C:C4	2.86	0.64
1:AA:956:U:O2'	1:AA:957:U:H5'	1.98	0.64
1:AA:975:A:H4'	1:AA:976:G:C5'	2.20	0.64
3:AC:43:LEU:C	3:AC:45:LYS:H	1.99	0.64
14:AN:50:LYS:O	14:AN:52:GLN:N	2.31	0.64
15:AO:12:ILE:HD13	15:AO:22:THR:HG22	1.79	0.64
19:AS:31:ILE:O	19:AS:31:ILE:HG23	1.97	0.64
19:AS:61:TYR:O	19:AS:62:ILE:HB	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:164:ILE:CD1	24:AY:252:THR:CG2	2.69	0.64
24:AY:490:GLU:OE2	24:AY:490:GLU:O	2.15	0.64
31:B6:30:THR:O	31:B6:31:PRO:C	2.36	0.64
33:B8:8:LYS:NZ	33:B8:11:LYS:HE2	2.13	0.64
33:B8:10:ALA:O	33:B8:13:ARG:HG2	1.97	0.64
35:BA:1199:U:O2'	35:BA:1200:C:O4'	2.16	0.64
35:BA:2391:G:O6	35:BA:2427:C:H1'	1.97	0.64
35:BA:2639:A:H2'	35:BA:2640:G:O4'	1.97	0.64
35:BA:666:G:H4'	47:BP:49:ARG:HE	1.63	0.64
35:BA:999:U:C2'	35:BA:1000:A:H5'	2.27	0.64
36:BB:54:G:H21	36:BB:55:U:H1'	1.63	0.64
38:BD:126:GLN:O	38:BD:193:VAL:CG1	2.44	0.64
35:BA:601:C:C5'	40:BF:108:LYS:NZ	2.61	0.64
47:BP:23:PRO:O	47:BP:29:LYS:O	2.16	0.64
49:BR:100:LEU:HD21	49:BR:112:ALA:O	1.98	0.64
50:BS:34:HIS:HB2	50:BS:36:TYR:HE1	1.63	0.64
51:BT:20:PRO:HG2	51:BT:85:LYS:O	1.97	0.64
52:BU:88:ILE:HG13	52:BU:88:ILE:O	1.97	0.64
53:BV:4:ILE:HA	53:BV:12:TYR:O	1.98	0.64
1:AA:436:C:C5'	4:AD:156:GLU:OE1	2.46	0.63
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.61	0.63
3:AC:138:VAL:HG23	3:AC:149:ALA:CB	2.28	0.63
12:AL:90:VAL:HG11	12:AL:93:LEU:HD12	1.80	0.63
15:AO:12:ILE:HG23	15:AO:27:VAL:HG11	1.77	0.63
15:AO:30:ALA:O	15:AO:33:THR:HG22	1.98	0.63
17:AQ:83:ASP:O	17:AQ:86:GLU:HB2	1.97	0.63
24:AY:197:LYS:HB2	24:AY:202:GLN:CG	2.27	0.63
24:AY:395:PRO:CA	24:AY:441:VAL:HG22	2.26	0.63
32:B7:29:LYS:O	32:B7:33:ARG:HB2	1.98	0.63
32:B7:43:THR:O	32:B7:44:PRO:C	2.34	0.63
35:BA:1613:G:H1	35:BA:1617:C:C2'	2.11	0.63
35:BA:2514:U:H3	35:BA:2570:G:H1	1.45	0.63
35:BA:2577:A:O5'	35:BA:2577:A:H8	1.79	0.63
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.79	0.63
35:BA:814:C:H2'	35:BA:815:C:H6	1.63	0.63
38:BD:31:LYS:O	38:BD:35:LYS:CB	2.46	0.63
40:BF:158:THR:HB	40:BF:195:ASP:HB2	1.80	0.63
1:AA:1423:G:C5'	46:BO:49:ARG:HH12	2.11	0.63
46:BO:5:GLN:HG3	46:BO:5:GLN:O	1.97	0.63
49:BR:96:ARG:NH1	49:BR:96:ARG:HB2	2.13	0.63
51:BT:16:ARG:CB	51:BT:16:ARG:HH11	2.09	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:108:GLU:O	52:BU:111:GLU:N	2.31	0.63
54:BW:57:ASN:O	54:BW:61:ASN:HB2	1.99	0.63
1:AA:907:A:C4	1:AA:908:A:C8	2.85	0.63
1:AA:918:A:N6	1:AA:919:A:N1	2.46	0.63
1:AA:935:A:H2	1:AA:1383:C:H42	1.46	0.63
2:AB:10:LEU:C	2:AB:10:LEU:HD13	2.18	0.63
2:AB:30:ARG:C	2:AB:32:ILE:H	2.01	0.63
2:AB:30:ARG:O	2:AB:32:ILE:N	2.28	0.63
7:AG:148:ASN:C	7:AG:150:ALA:N	2.51	0.63
19:AS:17:GLU:O	19:AS:17:GLU:HG2	1.97	0.63
19:AS:63:THR:HG22	19:AS:66:MET:HG2	1.79	0.63
24:AY:315:VAL:HG21	24:AY:346:LEU:HD11	1.79	0.63
35:BA:1845:G:C2	35:BA:1846:G:C4	2.86	0.63
35:BA:1862:G:N2	35:BA:1881:C:C2	2.67	0.63
35:BA:1267:U:C6	35:BA:2012:G:N2	2.66	0.63
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.32	0.63
35:BA:2287:A:N6	35:BA:2344:U:N3	2.36	0.63
35:BA:2398:U:H5'	35:BA:2399:G:OP2	1.98	0.63
35:BA:2845:G:H2'	35:BA:2846:G:C8	2.33	0.63
35:BA:529:A:C5	35:BA:2042:A:C2	2.86	0.63
36:BB:17:C:C2'	36:BB:18:G:H5'	2.28	0.63
38:BD:124:PRO:C	38:BD:129:ASN:HD22	2.01	0.63
40:BF:159:GLY:N	40:BF:178:PRO:HD3	2.14	0.63
40:BF:81:PRO:HG2	40:BF:82:ILE:HG22	1.81	0.63
42:BH:118:PRO:HD2	42:BH:121:ILE:CG2	2.28	0.63
47:BP:55:ARG:HG2	47:BP:57:THR:H	1.63	0.63
48:BQ:135:ASP:O	48:BQ:138:ASP:OD2	2.16	0.63
50:BS:23:ARG:HB3	50:BS:24:LEU:CD2	2.25	0.63
51:BT:50:ILE:HD12	51:BT:50:ILE:N	2.13	0.63
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ2	1.63	0.63
35:BA:1155:A:OP1	52:BU:55:ARG:NE	2.28	0.63
54:BW:76:VAL:HG23	54:BW:103:ILE:HG23	1.81	0.63
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.97	0.63
1:AA:673:G:C5	1:AA:734:G:C2	2.87	0.63
1:AA:688:G:C2'	1:AA:689:C:H5'	2.27	0.63
5:AE:12:LEU:HD22	5:AE:13:ILE:O	1.99	0.63
21:AU:16:GLY:O	21:AU:17:THR:HG23	1.99	0.63
27:B2:32:LEU:HA	27:B2:53:LEU:HD13	1.78	0.63
30:B5:44:THR:HG22	30:B5:45:VAL:N	2.14	0.63
35:BA:1569:A:C2	35:BA:1570:A:C5	2.86	0.63
35:BA:1833:U:C2	35:BA:1834:U:C5	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1904:G:O2'	35:BA:1905:C:H5'	1.99	0.63
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.33	0.63
35:BA:2796:U:C3'	35:BA:2799:C:H5'	2.28	0.63
35:BA:2841:C:H2'	35:BA:2842:G:C8	2.33	0.63
35:BA:560:C:H2'	35:BA:561:G:H8	1.64	0.63
36:BB:102:A:H5'	36:BB:103:G:OP2	1.97	0.63
36:BB:70:C:O2'	36:BB:71:C:H5'	1.98	0.63
38:BD:182:LEU:N	38:BD:272:ALA:HB1	2.13	0.63
45:BN:70:LYS:HB3	45:BN:87:LEU:HB2	1.81	0.63
46:BO:14:THR:HG21	46:BO:94:ARG:HB2	1.78	0.63
51:BT:19:LEU:CD1	51:BT:78:LEU:HD23	2.28	0.63
51:BT:32:TYR:N	51:BT:32:TYR:CD1	2.66	0.63
54:BW:6:ILE:HA	54:BW:104:THR:HA	1.80	0.63
1:AA:1304:G:H1'	1:AA:1334:G:N2	2.13	0.63
1:AA:1353:G:C4	1:AA:1354:C:C5	2.85	0.63
1:AA:1491:G:C6	1:AA:1492:A:C6	2.87	0.63
1:AA:528:C:H4'	1:AA:535:A:C5	2.34	0.63
1:AA:788:U:O2'	1:AA:789:U:H5'	1.98	0.63
1:AA:980:C:OP2	1:AA:981:U:O4	2.16	0.63
2:AB:200:ILE:CG2	2:AB:202:PRO:HD3	2.28	0.63
3:AC:137:ALA:C	3:AC:139:GLN:H	2.02	0.63
4:AD:125:HIS:O	4:AD:126:ILE:HD12	1.97	0.63
4:AD:175:SER:HB3	4:AD:186:LEU:HD11	1.79	0.63
4:AD:58:LEU:HD12	4:AD:59:ARG:NH1	2.07	0.63
8:AH:44:PHE:HE2	8:AH:109:ILE:HG21	1.62	0.63
11:AK:15:ALA:HA	11:AK:77:MET:HA	1.79	0.63
11:AK:91:ARG:O	11:AK:94:ALA:HB3	1.98	0.63
13:AM:14:ARG:N	13:AM:44:ARG:HH11	1.96	0.63
13:AM:90:LEU:O	13:AM:91:ARG:CB	2.45	0.63
24:AY:255:PHE:CZ	24:AY:275:TRP:HH2	2.10	0.63
24:AY:315:VAL:HG12	24:AY:316:ALA:N	2.13	0.63
24:AY:513:LEU:HD22	24:AY:517:ARG:NH2	2.13	0.63
28:B3:11:SER:HB2	35:BA:988:A:O5'	1.98	0.63
31:B6:16:CYS:O	31:B6:16:CYS:SG	2.56	0.63
32:B7:37:LYS:HZ3	32:B7:39:ARG:HH21	1.46	0.63
34:B9:2:LYS:HD3	34:B9:33:LYS:O	1.98	0.63
35:BA:1061:U:H3	44:BK:55:UNK:C	2.11	0.63
35:BA:1569:A:N3	35:BA:1570:A:C8	2.67	0.63
35:BA:1846:G:N2	35:BA:1847:A:C6	2.66	0.63
35:BA:1882:C:C2'	35:BA:1883:G:H5'	2.28	0.63
35:BA:2453:A:O2'	35:BA:2572:A:H1'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:307:G:N2	35:BA:310:A:O5'	2.31	0.63
35:BA:382:G:O2'	35:BA:383:U:H5'	1.97	0.63
35:BA:531:C:C5	35:BA:2035:G:C2	2.86	0.63
36:BB:69:G:N3	36:BB:69:G:H2'	2.13	0.63
38:BD:180:GLY:O	38:BD:182:LEU:HD12	1.98	0.63
41:BG:107:LEU:HD21	41:BG:178:PHE:CE1	2.34	0.63
41:BG:60:LEU:O	41:BG:60:LEU:HD13	1.98	0.63
47:BP:94:GLU:HG3	47:BP:124:LYS:HB2	1.80	0.63
53:BV:3:ALA:CB	53:BV:14:VAL:HG22	2.28	0.63
2:AB:97:TRP:HZ3	2:AB:172:ILE:HG22	1.64	0.63
3:AC:122:GLU:O	3:AC:125:GLU:N	2.31	0.63
5:AE:55:VAL:O	5:AE:58:ALA:HB3	1.98	0.63
11:AK:43:SER:HB2	11:AK:71:LYS:NZ	2.13	0.63
13:AM:6:GLY:O	13:AM:8:GLU:N	2.26	0.63
24:AY:154:LEU:HB3	24:AY:155:LEU:HD12	1.79	0.63
24:AY:197:LYS:HG3	24:AY:202:GLN:HG3	1.79	0.63
24:AY:249:GLY:O	24:AY:250:GLU:CB	2.46	0.63
24:AY:62:MET:CG	24:AY:451:ALA:HB3	2.29	0.63
30:B5:41:PRO:HG2	30:B5:44:THR:CB	2.29	0.63
31:B6:15:GLU:OE2	31:B6:41:PRO:CB	2.46	0.63
33:B8:2:PRO:O	33:B8:4:MET:N	2.32	0.63
35:BA:1064:C:H3'	35:BA:1065:U:C5'	2.29	0.63
35:BA:1215:G:O2'	35:BA:1216:G:H5'	1.97	0.63
35:BA:811:U:H4'	35:BA:1251:C:O4'	1.97	0.63
35:BA:1625:C:H2'	35:BA:1626:G:O4'	1.98	0.63
35:BA:1899:G:N2	35:BA:1902:C:N4	2.42	0.63
35:BA:2014:A:C2'	35:BA:2015:A:C8	2.82	0.63
35:BA:2240:C:O2'	35:BA:2241:A:H5'	1.98	0.63
35:BA:2006:C:O2'	35:BA:2823:A:N3	2.26	0.63
35:BA:654(J):A:C8	35:BA:654(L):G:H1'	2.30	0.63
28:B3:52:HIS:CG	36:BB:83:G:H4'	2.33	0.63
37:BC:41:VAL:CG1	37:BC:214:VAL:HG13	2.28	0.63
39:BE:7:VAL:C	39:BE:26:ILE:HG22	2.19	0.63
40:BF:18:ARG:NH2	40:BF:199:TRP:HZ3	1.96	0.63
41:BG:25:TYR:CD2	41:BG:31:VAL:HA	2.32	0.63
45:BN:34:LEU:HD21	45:BN:120:LEU:CD2	2.18	0.63
48:BQ:77:LYS:HD3	48:BQ:81:VAL:HG13	1.80	0.63
50:BS:12:PHE:N	50:BS:12:PHE:CD1	2.59	0.63
51:BT:35:LYS:HZ1	51:BT:41:ARG:HD2	1.63	0.63
51:BT:59:THR:OG1	51:BT:78:LEU:CD1	2.47	0.63
57:BZ:113:ALA:O	57:BZ:114:GLY:C	2.36	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:623:C:H2'	1:AA:624:C:C6	2.33	0.63
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.61	0.63
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.79	0.63
8:AH:11:THR:C	8:AH:13:ILE:N	2.50	0.63
11:AK:63:LEU:HD23	11:AK:63:LEU:N	2.13	0.63
12:AL:102:ARG:HH21	12:AL:110:VAL:HG22	1.64	0.63
13:AM:75:ALA:HB1	13:AM:79:LYS:CE	2.25	0.63
15:AO:68:ARG:HD2	15:AO:72:ARG:HH21	1.63	0.63
19:AS:39:THR:HG22	19:AS:40:ILE:H	1.62	0.63
22:AV:15:G:H3'	22:AV:16:C:C5'	2.28	0.63
24:AY:307:MET:HG2	24:AY:313:ASP:N	2.14	0.63
24:AY:86:LEU:HD12	24:AY:87:LEU:H	1.63	0.63
26:B1:76:ARG:NH2	26:B1:95:LEU:CD1	2.62	0.63
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.28	0.63
35:BA:2110:G:O2'	35:BA:2111:C:OP1	2.12	0.63
35:BA:2641:G:H2'	35:BA:2642:G:O4'	1.97	0.63
35:BA:438:G:H2'	35:BA:440:G:H8	1.63	0.63
35:BA:55:G:H2'	35:BA:56:A:H8	1.63	0.63
35:BA:956:G:OP2	48:BQ:87:LYS:NZ	2.30	0.63
36:BB:57:A:H8	41:BG:27:ASN:ND2	1.87	0.63
37:BC:6:ARG:HH22	37:BC:10:LEU:CD2	2.10	0.63
37:BC:151:GLU:HA	37:BC:154:ARG:HG2	1.81	0.63
38:BD:131:LEU:HD22	38:BD:132:PRO:HD2	1.80	0.63
38:BD:176:ARG:C	38:BD:177:LEU:HD23	2.19	0.63
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.22	0.63
39:BE:197:ILE:HD11	39:BE:199:ARG:HH22	1.64	0.63
39:BE:77:ILE:CG2	39:BE:78:LEU:H	1.96	0.63
40:BF:110:LEU:CD2	40:BF:183:VAL:HG13	2.27	0.63
41:BG:83:ARG:HB2	41:BG:84:LYS:HD2	1.79	0.63
47:BP:16:ARG:HH11	47:BP:16:ARG:HB2	1.61	0.63
49:BR:2:ARG:HG3	49:BR:2:ARG:HH11	1.63	0.63
35:BA:1654:A:OP1	49:BR:3:HIS:N	2.32	0.63
49:BR:71:GLN:HE21	49:BR:71:GLN:HA	1.63	0.63
50:BS:29:PHE:CD1	50:BS:29:PHE:C	2.68	0.63
54:BW:27:LYS:H	54:BW:71:VAL:HG23	1.63	0.63
1:AA:961:U:O2'	1:AA:962:C:O5'	2.17	0.63
2:AB:130:ARG:NH2	2:AB:134:GLU:HG3	2.14	0.63
5:AE:84:PHE:CZ	5:AE:133:TYR:HB3	2.33	0.63
15:AO:39:LEU:CG	15:AO:56:LEU:HD21	2.27	0.63
15:AO:75:PRO:O	15:AO:79:ARG:HG3	1.98	0.63
24:AY:177:LYS:HE2	35:BA:2654:A:OP1	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:32:LYS:HZ3	24:AY:260:LEU:HA	1.62	0.63
28:B3:13:ILE:HD11	35:BA:989:G:C4	2.34	0.63
35:BA:2147:G:H2'	35:BA:2148:G:H5'	1.81	0.63
35:BA:695:G:C4	35:BA:696:G:C8	2.87	0.63
36:BB:77:U:C4	36:BB:99:G:N2	2.66	0.63
37:BC:72:VAL:HG22	37:BC:74:VAL:HG23	1.80	0.63
38:BD:62:TYR:CE1	38:BD:64:ILE:HA	2.32	0.63
39:BE:68:ALA:C	39:BE:70:ALA:H	2.02	0.63
41:BG:60:LEU:O	41:BG:63:ILE:HG12	1.98	0.63
41:BG:7:LEU:O	41:BG:11:TYR:N	2.31	0.63
42:BH:26:VAL:HG22	42:BH:26:VAL:O	1.99	0.63
52:BU:36:ARG:HG2	52:BU:40:PHE:CE2	2.33	0.63
1:AA:360:A:H8	1:AA:360:A:O5'	1.80	0.63
1:AA:680:C:O2'	1:AA:681:C:H5'	1.98	0.63
19:AS:21:GLU:CG	19:AS:22:LEU:N	2.61	0.63
22:AV:62:C:C3'	22:AV:63:G:H5''	2.29	0.63
24:AY:158:VAL:O	24:AY:164:ILE:N	2.30	0.63
24:AY:201:ILE:HA	24:AY:262:ASN:HD22	1.62	0.63
19:AS:47:HIS:NE2	29:B4:47:GLN:HB2	2.13	0.63
33:B8:53:PRO:CA	33:B8:56:GLU:OE1	2.46	0.63
35:BA:1791:A:O3'	38:BD:206:LEU:HD11	1.98	0.63
35:BA:1802:A:H2'	35:BA:1803:A:C8	2.34	0.63
35:BA:1922:G:H2'	35:BA:1923:U:C5'	2.29	0.63
35:BA:1927:A:N6	35:BA:1928:A:C2	2.67	0.63
30:B5:19:ARG:HA	35:BA:2046:G:O5'	1.99	0.63
35:BA:2080:G:C2	35:BA:2241:A:N3	2.67	0.63
35:BA:2390:U:O2'	35:BA:2391:G:H5'	1.99	0.63
24:AY:177:LYS:HG2	35:BA:2654:A:OP1	1.98	0.63
38:BD:24:ILE:HG23	38:BD:82:ILE:O	1.98	0.63
38:BD:96:HIS:CE1	38:BD:102:LYS:HZ1	2.17	0.63
39:BE:65:GLY:HA2	39:BE:70:ALA:HB1	1.80	0.63
40:BF:33:LEU:HD21	40:BF:112:MET:CG	2.29	0.63
50:BS:101:LEU:C	50:BS:102:ALA:O	2.33	0.63
51:BT:26:ASP:CA	51:BT:48:ILE:HG23	2.29	0.63
2:AB:122:PHE:HA	2:AB:139:LYS:HZ3	1.64	0.63
2:AB:152:PHE:O	2:AB:153:ARG:CG	2.47	0.63
2:AB:224:GLN:O	2:AB:226:ARG:N	2.31	0.63
4:AD:147:ALA:CB	4:AD:182:LYS:HG2	2.29	0.63
9:AI:99:LEU:O	9:AI:101:PHE:N	2.31	0.63
11:AK:111:ASP:O	11:AK:112:THR:C	2.37	0.63
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:72:ARG:HG2	16:AP:73:LEU:N	2.14	0.63
24:AY:415:GLY:HA3	24:AY:457:TYR:CE1	2.34	0.63
24:AY:398:PHE:CE1	24:AY:470:THR:HA	2.33	0.63
25:B0:32:ARG:HA	25:B0:64:ASP:OD1	1.98	0.63
28:B3:13:ILE:HD11	35:BA:989:G:C5	2.34	0.63
28:B3:28:LEU:N	28:B3:28:LEU:HD23	2.14	0.63
30:B5:12:SER:O	30:B5:16:ARG:N	2.31	0.63
33:B8:61:LEU:CD1	33:B8:62:LEU:H	2.12	0.63
35:BA:1044:G:OP2	43:BJ:4:UNK:N	2.31	0.63
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.32	0.63
35:BA:2111:C:H1'	35:BA:2118:U:C4'	2.29	0.63
35:BA:2605:U:C2'	35:BA:2606:C:C6	2.73	0.63
35:BA:282:A:HO2'	35:BA:283:A:H8	1.45	0.63
35:BA:336:C:O3'	56:BY:7:VAL:HG22	1.99	0.63
35:BA:918:A:N3	36:BB:80:U:O2'	2.26	0.63
35:BA:991:C:H6	35:BA:991:C:H5'	1.63	0.63
38:BD:165:ILE:HA	38:BD:175:LEU:CD2	2.28	0.63
35:BA:1799:G:O3'	38:BD:260:ARG:NH2	2.32	0.63
40:BF:82:ILE:O	40:BF:83:PHE:HB2	1.98	0.63
45:BN:2:LYS:HZ1	52:BU:95:LEU:HD21	1.62	0.63
48:BQ:65:PHE:O	48:BQ:104:PHE:HB3	1.98	0.63
51:BT:62:THR:HG22	51:BT:75:ILE:HG13	1.81	0.63
52:BU:91:ASP:O	52:BU:95:LEU:HB2	1.99	0.63
54:BW:66:GLU:O	54:BW:68:ARG:N	2.31	0.63
56:BY:73:ARG:HB3	56:BY:80:GLY:CA	2.29	0.63
56:BY:86:ARG:NH1	56:BY:95:LYS:NZ	2.45	0.63
1:AA:1061:G:C2'	1:AA:1062:U:H5'	2.29	0.62
1:AA:1128:C:H2'	1:AA:1139:G:N7	2.14	0.62
1:AA:16:A:O2'	1:AA:17:U:H5'	1.98	0.62
5:AE:50:GLU:CG	5:AE:52:PRO:HD2	2.11	0.62
7:AG:40:ALA:HB1	7:AG:44:TYR:CE2	2.34	0.62
1:AA:586:C:OP1	17:AQ:34:LYS:NZ	2.32	0.62
19:AS:75:ALA:N	19:AS:76:PRO:HD2	2.14	0.62
24:AY:171:TRP:N	24:AY:182:VAL:HG13	2.13	0.62
24:AY:21:HIS:HD2	24:AY:122:ARG:CB	2.12	0.62
24:AY:22:PRO:O	24:AY:24:ALA:N	2.32	0.62
27:B2:47:ASN:O	27:B2:50:ILE:HB	1.99	0.62
27:B2:32:LEU:HD12	27:B2:57:ILE:HG13	1.81	0.62
30:B5:40:LYS:HG3	30:B5:41:PRO:O	1.99	0.62
35:BA:1293:C:H2'	35:BA:1294:U:H6	1.64	0.62
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2289:G:N2	35:BA:2344:U:N3	2.47	0.62
35:BA:2681:C:H5	35:BA:2727:G:C2	2.17	0.62
35:BA:292:C:O2'	35:BA:293:U:H5'	1.99	0.62
35:BA:654:A:C8	35:BA:654(V):A:H4'	2.34	0.62
35:BA:919:G:H4'	36:BB:81:G:O4'	1.99	0.62
35:BA:976:C:N3	35:BA:987:G:N2	2.46	0.62
41:BG:139:LEU:HB2	41:BG:146:TYR:HD1	1.63	0.62
41:BG:16:ARG:NE	41:BG:31:VAL:HG11	2.13	0.62
41:BG:82:LEU:HD21	41:BG:86:MET:HE1	1.81	0.62
49:BR:38:VAL:HG21	49:BR:110:PRO:HB2	1.81	0.62
50:BS:89:ARG:NH2	50:BS:91:PRO:HG2	2.13	0.62
51:BT:108:ARG:HB3	51:BT:111:ARG:HH22	1.63	0.62
52:BU:96:ALA:C	52:BU:98:LEU:N	2.52	0.62
55:BX:55:ASN:HB2	55:BX:80:ILE:HD11	1.81	0.62
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.80	0.62
1:AA:1152:A:P	10:AJ:70:ARG:HH22	2.21	0.62
1:AA:1375:A:H2'	1:AA:1376:U:O4'	1.98	0.62
1:AA:1447:A:N3	1:AA:1447:A:H2'	2.14	0.62
1:AA:580:U:H5''	15:AO:58:MET:HG3	1.81	0.62
1:AA:730:G:H2'	1:AA:731:G:O4'	1.99	0.62
8:AH:87:SER:OG	8:AH:93:VAL:N	2.32	0.62
10:AJ:33:GLN:HB2	10:AJ:75:ILE:HD11	1.80	0.62
12:AL:86:ARG:O	12:AL:86:ARG:HG2	1.99	0.62
1:AA:753:A:H5''	15:AO:69:TYR:CZ	2.34	0.62
16:AP:12:LYS:O	16:AP:13:HIS:HB2	1.98	0.62
20:AT:51:GLU:O	20:AT:55:ILE:HG12	1.99	0.62
24:AY:320:VAL:O	24:AY:361:PRO:HA	1.99	0.62
24:AY:419:LEU:HD23	24:AY:424:ALA:HB3	1.79	0.62
24:AY:420:SER:CB	24:AY:427:VAL:HG22	2.27	0.62
24:AY:305:ALA:CB	24:AY:423:GLY:H	2.12	0.62
31:B6:19:ARG:NH1	31:B6:43:CYS:SG	2.72	0.62
33:B8:42:ARG:HG3	35:BA:2349:G:OP2	1.99	0.62
35:BA:1057:A:H2	35:BA:1082:U:H3	1.41	0.62
35:BA:1484:G:H2'	35:BA:1485:G:C5'	2.18	0.62
35:BA:1605:C:C2'	35:BA:1606:G:H5'	2.29	0.62
35:BA:1782:C:O5'	35:BA:1782:C:H6	1.82	0.62
35:BA:194:G:H2'	35:BA:195:A:O4'	1.98	0.62
35:BA:2311:A:H2'	35:BA:2312:U:C5	2.34	0.62
35:BA:2564:A:H2'	35:BA:2565:A:O4'	1.99	0.62
35:BA:2673:G:H5'	35:BA:2673:G:H8	1.64	0.62
35:BA:2811:G:P	39:BE:60:ASN:HB2	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:120:MET:CE	37:BC:123:VAL:HG11	2.29	0.62
38:BD:198:ASN:ND2	38:BD:198:ASN:C	2.52	0.62
35:BA:675:A:O2'	40:BF:67:GLN:NE2	2.32	0.62
47:BP:113:LYS:HA	47:BP:129:ALA:O	1.99	0.62
51:BT:92:GLY:C	51:BT:94:ALA:H	2.02	0.62
53:BV:39:LEU:HD22	53:BV:39:LEU:N	2.13	0.62
57:BZ:45:ASP:OD2	57:BZ:49:ARG:NH2	2.32	0.62
1:AA:1376:U:C2	1:AA:1377:A:N7	2.68	0.62
1:AA:861:G:O2'	1:AA:862:C:H5'	1.98	0.62
3:AC:35:GLU:OE1	3:AC:59:ARG:NH1	2.31	0.62
3:AC:83:ARG:HG3	3:AC:87:LEU:CD1	2.28	0.62
11:AK:57:THR:HG22	11:AK:60:ALA:CB	2.29	0.62
15:AO:42:HIS:CD2	15:AO:42:HIS:C	2.72	0.62
19:AS:11:VAL:CG2	19:AS:38:SER:HB2	2.27	0.62
24:AY:26:LYS:HD3	24:AY:89:THR:O	2.00	0.62
27:B2:68:ARG:HG2	27:B2:68:ARG:O	1.99	0.62
29:B4:9:LEU:HD21	29:B4:26:SER:HA	1.81	0.62
32:B7:2:LYS:HE3	32:B7:6:GLN:CG	2.29	0.62
35:BA:816:C:N3	35:BA:1192:G:C2	2.67	0.62
35:BA:1286:A:H2'	35:BA:1288:U:OP2	1.99	0.62
35:BA:2230:G:O5'	35:BA:2230:G:H8	1.83	0.62
35:BA:2292:C:H2'	35:BA:2293:C:H6	1.64	0.62
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.00	0.62
35:BA:360:G:O2'	35:BA:361:G:H5'	1.99	0.62
38:BD:176:ARG:CD	38:BD:182:LEU:HD11	2.29	0.62
38:BD:186:HIS:NE2	38:BD:188:GLU:HB2	2.14	0.62
40:BF:185:ASP:HA	40:BF:188:ARG:CG	2.28	0.62
35:BA:1248:G:OP2	40:BF:92:PRO:HG3	2.00	0.62
41:BG:33:ARG:N	41:BG:162:THR:HB	2.13	0.62
43:BJ:74:UNK:C	43:BJ:76:UNK:H	2.13	0.62
47:BP:50:ARG:CG	47:BP:51:PHE:H	2.12	0.62
50:BS:74:ALA:HB1	50:BS:103:GLU:CG	2.29	0.62
52:BU:70:ARG:HA	52:BU:74:LEU:O	2.00	0.62
54:BW:37:ARG:HG3	54:BW:37:ARG:NH1	2.14	0.62
1:AA:1231:G:O2'	1:AA:1232:U:H5'	1.99	0.62
1:AA:125:U:H2'	1:AA:126:G:C8	2.34	0.62
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.64	0.62
1:AA:306:G:C2'	1:AA:307:C:H5'	2.29	0.62
3:AC:43:LEU:O	3:AC:47:LEU:HB2	1.99	0.62
4:AD:3:ARG:HD3	4:AD:3:ARG:O	2.00	0.62
17:AQ:10:VAL:HG12	17:AQ:53:LEU:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.64	0.62
24:AY:110:LEU:HD12	24:AY:138:LEU:O	1.99	0.62
24:AY:308:ASP:O	24:AY:309:PRO:C	2.36	0.62
24:AY:342:ILE:HD11	24:AY:345:ALA:HB1	1.78	0.62
24:AY:512:ARG:O	24:AY:516:GLU:CG	2.42	0.62
25:B0:38:VAL:CG1	25:B0:59:LEU:HD12	2.29	0.62
26:B1:50:ARG:O	26:B1:51:VAL:HG13	1.98	0.62
28:B3:8:LEU:HA	28:B3:54:VAL:HG22	1.79	0.62
30:B5:45:VAL:HG22	30:B5:51:TYR:CD1	2.35	0.62
31:B6:44:ARG:C	31:B6:45:LYS:HD3	2.20	0.62
34:B9:7:VAL:HG22	34:B9:34:GLN:HG3	1.82	0.62
35:BA:2043:C:OP1	35:BA:2777:G:O2'	2.15	0.62
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.64	0.62
35:BA:304:G:H1	35:BA:313:C:H42	1.47	0.62
35:BA:628:G:H2'	35:BA:629:G:H5'	1.81	0.62
35:BA:733:G:N7	35:BA:761:A:C6	2.67	0.62
35:BA:940:G:H2'	35:BA:941:A:O4'	1.98	0.62
38:BD:31:LYS:N	38:BD:104:TYR:OH	2.32	0.62
38:BD:34:VAL:O	38:BD:34:VAL:HG23	1.98	0.62
40:BF:140:LEU:O	40:BF:143:ALA:HB3	1.99	0.62
40:BF:165:ARG:HG2	40:BF:168:ARG:NH2	2.14	0.62
35:BA:2444:G:P	40:BF:68:LYS:HE3	2.39	0.62
41:BG:25:TYR:CE2	41:BG:32:PRO:HD3	2.34	0.62
45:BN:46:VAL:HG12	45:BN:48:MET:HG3	1.81	0.62
45:BN:9:VAL:CG1	45:BN:39:ARG:HH22	2.12	0.62
46:BO:35:VAL:HG11	46:BO:103:ALA:HB3	1.80	0.62
48:BQ:106:VAL:O	48:BQ:107:ALA:HB2	2.00	0.62
48:BQ:12:GLN:OE1	48:BQ:72:LYS:HA	1.99	0.62
51:BT:52:ILE:HG12	51:BT:61:PHE:CB	2.29	0.62
53:BV:49:THR:HB	53:BV:50:PRO:CD	2.29	0.62
57:BZ:175:VAL:HB	57:BZ:176:PRO:CD	2.30	0.62
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.35	0.62
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.63	0.62
1:AA:397:A:N3	1:AA:397:A:H3'	2.14	0.62
1:AA:587:G:OP1	8:AH:92:ARG:NH1	2.32	0.62
2:AB:63:MET:O	2:AB:64:ARG:C	2.38	0.62
3:AC:153:VAL:O	3:AC:154:SER:CB	2.48	0.62
4:AD:127:THR:N	4:AD:147:ALA:O	2.32	0.62
4:AD:92:VAL:O	4:AD:96:LEU:HD13	1.98	0.62
5:AE:80:ILE:HD11	5:AE:138:ALA:HA	1.81	0.62
5:AE:82:VAL:HG21	5:AE:138:ALA:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.29	0.62
15:AO:17:ARG:HB3	15:AO:17:ARG:HH11	1.64	0.62
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.62	0.62
21:AU:5:ASP:O	21:AU:7:ARG:N	2.32	0.62
25:B0:25:ARG:HD2	25:B0:29:GLN:NE2	2.13	0.62
32:B7:13:ALA:HB1	35:BA:125:G:H1'	1.81	0.62
33:B8:10:ALA:HA	33:B8:13:ARG:HG2	1.79	0.62
35:BA:1286:A:H2	35:BA:1328:G:O2'	1.82	0.62
35:BA:1445(A):C:H2'	35:BA:1446:C:H6	1.59	0.62
35:BA:1707:G:O2'	35:BA:1708:C:H5'	1.99	0.62
35:BA:1827:C:O2'	35:BA:1828:G:H5'	2.00	0.62
35:BA:1137:G:O2'	35:BA:2039:C:H5''	1.99	0.62
35:BA:2142:C:O2'	35:BA:2143:C:H5'	1.99	0.62
35:BA:2238:G:N3	35:BA:2238:G:H2'	2.15	0.62
35:BA:2466:C:O2'	35:BA:2467:C:H5'	1.99	0.62
35:BA:2801(A):A:H4'	35:BA:2802:G:H2'	1.81	0.62
35:BA:307:G:H22	35:BA:310:A:C5'	2.13	0.62
35:BA:58:G:N3	35:BA:73:A:H2	1.97	0.62
37:BC:186:ALA:HB1	37:BC:190:ARG:CZ	2.29	0.62
35:BA:743:G:O3'	39:BE:132:HIS:HB3	1.99	0.62
39:BE:16:ARG:O	39:BE:17:ASP:C	2.38	0.62
39:BE:62:PRO:O	39:BE:64:LYS:N	2.32	0.62
41:BG:92:VAL:HG13	41:BG:92:VAL:O	1.98	0.62
45:BN:24:GLY:C	45:BN:26:LEU:N	2.50	0.62
47:BP:126:VAL:HG22	47:BP:145:PRO:HG2	1.79	0.62
50:BS:13:ARG:HA	50:BS:15:ARG:HD2	1.80	0.62
51:BT:123:GLN:HA	51:BT:126:ALA:HB3	1.81	0.62
53:BV:40:LEU:HD13	53:BV:46:VAL:H	1.64	0.62
53:BV:4:ILE:CD1	53:BV:40:LEU:HB2	2.30	0.62
55:BX:49:VAL:HG11	55:BX:88:LYS:O	1.98	0.62
1:AA:142:G:O2'	1:AA:196:A:N1	2.31	0.62
1:AA:35:G:H2'	1:AA:36:C:C6	2.35	0.62
1:AA:40:C:H2'	1:AA:41:G:C8	2.34	0.62
1:AA:78:G:H1	1:AA:91:C:H42	1.47	0.62
1:AA:980:C:C5	1:AA:981:U:C2	2.87	0.62
2:AB:127:ILE:HD11	2:AB:139:LYS:CE	2.29	0.62
3:AC:134:ILE:HG22	3:AC:168:ALA:HB3	1.81	0.62
3:AC:137:ALA:C	3:AC:139:GLN:N	2.52	0.62
4:AD:96:LEU:HD23	4:AD:139:ARG:HH11	1.65	0.62
9:AI:114:TYR:CD1	9:AI:114:TYR:O	2.53	0.62
12:AL:7:ILE:CD1	12:AL:10:LEU:HD12	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:25:PRO:C	12:AL:27:LEU:H	2.01	0.62
24:AY:349:MET:SD	24:AY:356:VAL:HG13	2.40	0.62
24:AY:391:PRO:O	24:AY:392:ASN:CB	2.46	0.62
24:AY:462:VAL:CG1	24:AY:463:TYR:N	2.52	0.62
31:B6:11:LEU:HD13	31:B6:12:GLU:O	1.99	0.62
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.63	0.62
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.35	0.62
35:BA:2325:G:H2'	35:BA:2326:C:C6	2.34	0.62
35:BA:566:U:H4'	35:BA:809:G:P	2.39	0.62
35:BA:618:C:O2'	35:BA:619:G:H5'	2.00	0.62
35:BA:750:A:C2'	35:BA:751:A:H5''	2.30	0.62
35:BA:2132:U:H3	37:BC:5:LYS:HB2	1.63	0.62
38:BD:24:ILE:HG23	38:BD:83:GLU:CA	2.29	0.62
38:BD:24:ILE:HD13	38:BD:84:TYR:HA	1.81	0.62
39:BE:24:THR:HB	39:BE:184:VAL:CG2	2.29	0.62
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.81	0.62
41:BG:21:ARG:NE	41:BG:21:ARG:O	2.33	0.62
42:BH:18:GLU:N	42:BH:25:LYS:O	2.33	0.62
42:BH:98:LEU:CD1	42:BH:102:ALA:O	2.47	0.62
35:BA:1070:A:N6	44:BK:7:UNK:C	2.62	0.62
52:BU:36:ARG:HB2	52:BU:36:ARG:NH1	2.15	0.62
57:BZ:68:PRO:C	57:BZ:91:LEU:HD12	2.20	0.62
1:AA:1152:A:H2'	1:AA:1153:C:C5	2.35	0.62
1:AA:1500:A:C2'	1:AA:1501:C:H5'	2.30	0.62
1:AA:787:A:C2'	1:AA:788:U:H5'	2.30	0.62
4:AD:118:ARG:O	4:AD:121:VAL:HB	1.99	0.62
1:AA:543:C:H5'	4:AD:14:ARG:NH2	2.15	0.62
5:AE:89:ILE:HG12	5:AE:90:VAL:N	2.15	0.62
7:AG:122:HIS:O	7:AG:125:MET:N	2.33	0.62
7:AG:72:ARG:HB2	7:AG:142:GLU:OE2	2.00	0.62
9:AI:37:PHE:CE2	9:AI:74:ILE:HG12	2.35	0.62
16:AP:19:ILE:HG12	16:AP:38:TYR:N	2.14	0.62
24:AY:146:ARG:NH2	24:AY:177:LYS:HE2	2.14	0.62
24:AY:503:TYR:CZ	24:AY:514:ALA:HB2	2.35	0.62
24:AY:488:LYS:HB3	24:AY:518:TYR:OH	1.99	0.62
24:AY:30:THR:HG21	24:AY:88:ASP:HB2	1.81	0.62
26:B1:54:ALA:HB3	26:B1:56:GLN:HG2	1.81	0.62
35:BA:1498:C:H2'	35:BA:1499:C:H5''	1.82	0.62
35:BA:1887:C:H2'	35:BA:1888:G:H5''	1.82	0.62
1:AA:1483:A:C2	35:BA:1960:A:H1'	2.35	0.62
35:BA:2101:G:C3'	35:BA:2102:U:H5''	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2106:G:O6	35:BA:2183:C:N3	2.33	0.62
35:BA:2620:C:H2'	35:BA:2621:A:O4'	1.98	0.62
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.81	0.62
35:BA:648:G:H5''	35:BA:2352:A:H5'	1.82	0.62
35:BA:888:C:C4	35:BA:890:A:OP1	2.53	0.62
37:BC:117:PRO:HG3	37:BC:145:VAL:CG1	2.30	0.62
38:BD:242:ARG:NH1	38:BD:242:ARG:HG2	2.12	0.62
40:BF:31:HIS:HB2	47:BP:13:ASN:OD1	2.00	0.62
46:BO:64:ARG:HH21	46:BO:100:GLY:HA3	1.64	0.62
35:BA:636:G:C2'	47:BP:115:LEU:HD12	2.29	0.62
48:BQ:21:THR:HG23	48:BQ:101:ARG:HD2	1.81	0.62
51:BT:27:THR:O	51:BT:28:VAL:HB	2.00	0.62
57:BZ:123:ASP:O	57:BZ:124:ILE:HG23	2.00	0.62
57:BZ:152:ALA:HB1	57:BZ:167:PRO:CB	2.16	0.62
1:AA:1134:G:N2	1:AA:1141:C:C2	2.67	0.62
1:AA:360:A:P	24:AY:411:GLN:HE22	2.22	0.62
1:AA:401:C:O2'	1:AA:621:A:N3	2.33	0.62
1:AA:528:C:H41	12:AL:49:ASN:HD21	1.48	0.62
1:AA:689:C:O2'	1:AA:690:G:H5'	1.99	0.62
1:AA:543:C:P	4:AD:10:ARG:HH12	2.23	0.62
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.30	0.62
13:AM:3:ARG:C	13:AM:4:ILE:HG13	2.20	0.62
15:AO:41:GLU:HA	15:AO:41:GLU:OE1	1.99	0.62
23:AX:14:A:C2'	23:AX:15:A:H5''	2.30	0.62
24:AY:11:ALA:CA	24:AY:279:PRO:HD2	2.27	0.62
24:AY:315:VAL:HG12	24:AY:316:ALA:H	1.65	0.62
24:AY:327:LYS:NZ	24:AY:344:ASP:HB3	2.14	0.62
24:AY:453:LEU:CB	24:AY:459:VAL:HG23	2.21	0.62
26:B1:3:LYS:HZ3	26:B1:4:VAL:HG12	1.64	0.62
35:BA:1248:G:C5	52:BU:3:ARG:HB2	2.35	0.62
35:BA:1382:G:H4'	35:BA:1573:G:C2	2.35	0.62
35:BA:1636:C:O2	35:BA:1760:A:H2	1.83	0.62
35:BA:2023:G:H2'	35:BA:2024:G:C8	2.33	0.62
35:BA:2043:C:H2'	35:BA:2044:C:C6	2.35	0.62
35:BA:2223:G:H4'	38:BD:269:PHE:HZ	1.64	0.62
35:BA:2681:C:O2	35:BA:2681:C:H2'	1.98	0.62
35:BA:2715:C:O2'	35:BA:2716:U:H5'	1.99	0.62
35:BA:489:G:N2	35:BA:1321:A:OP1	2.31	0.62
35:BA:857:C:N4	35:BA:920:G:H1	1.96	0.62
37:BC:10:LEU:O	37:BC:32:LEU:HD22	2.00	0.62
37:BC:186:ALA:HB1	37:BC:190:ARG:NH2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:33:LEU:HG	38:BD:34:VAL:N	2.13	0.62
42:BH:66:GLY:C	42:BH:69:ARG:HB2	2.20	0.62
42:BH:85:LYS:HZ1	42:BH:87:LEU:HD12	1.65	0.62
45:BN:126:PRO:O	45:BN:127:ASP:HB2	1.99	0.62
47:BP:146:VAL:HG13	47:BP:147:LEU:N	2.15	0.62
47:BP:62:LEU:HD22	47:BP:62:LEU:H	1.64	0.62
53:BV:59:ALA:HA	53:BV:95:LEU:O	1.99	0.62
53:BV:75:PHE:CD2	53:BV:82:ARG:HG3	2.34	0.62
54:BW:14:PRO:CB	54:BW:101:SER:HB3	2.29	0.62
56:BY:73:ARG:HE	56:BY:73:ARG:CA	2.06	0.62
57:BZ:151:HIS:HB3	57:BZ:170:THR:HA	1.81	0.62
57:BZ:51:ALA:O	57:BZ:53:ILE:N	2.32	0.62
1:AA:393:A:O2'	1:AA:394:G:H5'	1.98	0.62
1:AA:699:C:O2'	1:AA:700:G:H5'	2.00	0.62
1:AA:817:C:H5'	1:AA:820:U:OP2	2.00	0.62
2:AB:162:ILE:O	2:AB:185:ILE:CD1	2.47	0.62
2:AB:80:ILE:H	2:AB:80:ILE:CD1	2.12	0.62
5:AE:70:PRO:HG2	5:AE:142:LEU:HD13	1.82	0.62
1:AA:1351:U:H4'	7:AG:33:ASP:OD2	1.99	0.62
22:AV:26:G:H22	22:AV:44:A:N6	1.98	0.62
24:AY:487:ARG:C	24:AY:489:ASN:N	2.50	0.62
24:AY:6:TYR:CA	24:AY:360:TYR:HE2	2.13	0.62
25:B0:21:LEU:HD11	25:B0:41:ARG:HD3	1.82	0.62
26:B1:20:ARG:HG3	26:B1:32:LYS:HD3	1.82	0.62
28:B3:13:ILE:HD11	35:BA:989:G:C2	2.35	0.62
28:B3:35:ARG:NH1	28:B3:35:ARG:HG3	2.15	0.62
35:BA:1106:G:C2'	35:BA:1107:G:H5'	2.30	0.62
35:BA:2581:G:C6	35:BA:2610:C:C2	2.88	0.62
35:BA:271(T):C:H2'	35:BA:271(U):G:H8	1.65	0.62
35:BA:2681:C:C5	35:BA:2727:G:N2	2.68	0.62
35:BA:863:A:H2'	35:BA:864:G:C8	2.35	0.62
35:BA:880:G:H8	35:BA:880:G:O5'	1.83	0.62
38:BD:111:LEU:HD13	38:BD:115:GLN:NE2	2.14	0.62
38:BD:164:GLN:HB3	38:BD:176:ARG:HB3	1.82	0.62
38:BD:35:LYS:HG2	38:BD:63:ARG:HG2	1.80	0.62
38:BD:95:LEU:H	38:BD:95:LEU:HD13	1.65	0.62
38:BD:72:LYS:CD	38:BD:97:TYR:CE2	2.83	0.62
39:BE:87:GLU:CG	39:BE:87:GLU:O	2.48	0.62
46:BO:4:PRO:HA	46:BO:21:CYS:O	1.99	0.62
48:BQ:57:HIS:O	48:BQ:57:HIS:ND1	2.33	0.62
50:BS:83:LYS:HG2	50:BS:105:ALA:CB	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:4:LYS:HD3	54:BW:6:ILE:CD1	2.28	0.62
56:BY:26:LYS:HB2	56:BY:40:GLU:OE2	1.99	0.62
1:AA:1332:A:O2'	1:AA:1333:A:H5'	2.00	0.62
1:AA:667:G:O2'	15:AO:49:ASP:HA	1.99	0.62
1:AA:892:A:H2'	1:AA:893:C:H6	1.63	0.62
2:AB:15:VAL:HG21	2:AB:209:ARG:HE	1.65	0.62
2:AB:69:LEU:O	2:AB:162:ILE:CG1	2.44	0.62
2:AB:8:LYS:NZ	2:AB:217:ARG:NH1	2.48	0.62
4:AD:5:ILE:HA	4:AD:115:ARG:NH1	2.15	0.62
6:AF:43:LEU:HD22	6:AF:43:LEU:N	2.14	0.62
1:AA:1180:A:OP1	9:AI:103:THR:HG23	1.99	0.62
10:AJ:89:ASP:HB3	10:AJ:91:PRO:HD3	1.82	0.62
12:AL:33:ARG:NH2	12:AL:62:SER:HB3	2.15	0.62
13:AM:11:ARG:HG2	13:AM:12:ASN:H	1.64	0.62
15:AO:15:PHE:CD1	15:AO:15:PHE:N	2.67	0.62
18:AR:31:LEU:HG	18:AR:31:LEU:O	2.00	0.62
24:AY:181:GLY:HA3	24:AY:263:PHE:CE1	2.21	0.62
24:AY:316:ALA:O	24:AY:317:PHE:O	2.18	0.62
24:AY:10:VAL:HG22	24:AY:360:TYR:CD2	2.35	0.62
24:AY:305:ALA:HA	24:AY:422:GLU:HB3	1.80	0.62
26:B1:82:LEU:O	26:B1:83:GLU:HG3	2.00	0.62
35:BA:1661:G:C5	35:BA:1662:C:C5	2.88	0.62
35:BA:2065:C:O2'	35:BA:2066:C:H5'	2.00	0.62
35:BA:2325:G:H2'	35:BA:2326:C:H6	1.64	0.62
35:BA:644:A:N1	35:BA:2369:A:H1'	2.14	0.62
35:BA:2474:C:H5''	35:BA:2475:C:C5	2.35	0.62
35:BA:2688:U:C4	35:BA:2719:G:H2'	2.34	0.62
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.00	0.62
38:BD:53:PHE:CA	38:BD:218:ARG:HB2	2.30	0.62
42:BH:51:ARG:HG2	42:BH:52:VAL:N	2.14	0.62
45:BN:55:VAL:HG22	45:BN:125:GLY:CA	2.23	0.62
45:BN:62:VAL:O	45:BN:63:THR:O	2.17	0.62
46:BO:89:ASN:O	46:BO:91:LEU:N	2.32	0.62
47:BP:50:ARG:HG3	47:BP:51:PHE:H	1.65	0.62
1:AA:1048:G:H5''	14:AN:2:ALA:HB1	1.83	0.61
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.30	0.61
1:AA:277:C:H5''	17:AQ:68:ARG:HH22	1.65	0.61
1:AA:339:C:H2'	1:AA:340:U:C6	2.34	0.61
1:AA:763:G:O2'	1:AA:764:C:H5'	2.00	0.61
1:AA:902:G:O2'	1:AA:903:G:H5'	2.00	0.61
2:AB:69:LEU:HD23	2:AB:159:PRO:CG	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.63	0.61
4:AD:65:ARG:HB2	4:AD:75:PHE:CE2	2.34	0.61
1:AA:736:C:O2'	6:AF:90:VAL:O	2.17	0.61
7:AG:148:ASN:C	7:AG:150:ALA:H	2.03	0.61
8:AH:13:ILE:C	8:AH:17:THR:HG23	2.20	0.61
8:AH:1:MET:HE1	8:AH:3:THR:HG23	1.81	0.61
9:AI:114:TYR:HE2	10:AJ:60:ARG:H	1.47	0.61
10:AJ:64:GLU:OE2	10:AJ:66:ARG:CZ	2.48	0.61
13:AM:73:GLU:O	13:AM:76:ALA:HB3	1.98	0.61
13:AM:94:ARG:HG2	19:AS:82:GLY:N	2.15	0.61
19:AS:23:ASN:HB2	29:B4:47:GLN:CG	2.29	0.61
24:AY:142:ASN:HD21	58:AY:1000:GCP:C5	2.13	0.61
24:AY:18:ILE:HD12	24:AY:30:THR:OG1	2.00	0.61
29:B4:35:VAL:CG1	29:B4:36:CYS:H	2.12	0.61
34:B9:30:PRO:O	34:B9:32:HIS:N	2.33	0.61
35:BA:1221:C:H2'	35:BA:1221(A):C:C5	2.34	0.61
35:BA:1514:U:H2'	35:BA:1515:G:C8	2.35	0.61
35:BA:1747(A):G:C2	35:BA:1748:G:C8	2.87	0.61
35:BA:1917:U:H6	35:BA:1917:U:O5'	1.83	0.61
35:BA:1911:U:C2'	35:BA:1918:A:C2	2.77	0.61
30:B5:19:ARG:HA	35:BA:2046:G:C5'	2.30	0.61
35:BA:2131:G:H5''	35:BA:2132:U:O5'	1.99	0.61
38:BD:186:HIS:NE2	38:BD:188:GLU:CD	2.53	0.61
38:BD:68:LYS:HB3	38:BD:70:TRP:CZ3	2.34	0.61
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	1.82	0.61
35:BA:2572:A:N7	39:BE:144:ARG:HG2	2.14	0.61
39:BE:47:VAL:HB	39:BE:84:PHE:HD1	1.65	0.61
40:BF:170:LEU:HB3	40:BF:173:VAL:HG23	1.81	0.61
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.63	0.61
41:BG:56:ALA:CA	41:BG:153:ARG:HH21	2.12	0.61
42:BH:92:ILE:CD1	42:BH:95:ARG:NH2	2.62	0.61
47:BP:127:ALA:O	47:BP:148:LEU:HD12	2.00	0.61
47:BP:16:ARG:NH2	47:BP:18:ARG:HG3	2.15	0.61
48:BQ:133:ARG:NH1	48:BQ:133:ARG:HB3	2.12	0.61
50:BS:62:LYS:H	50:BS:65:VAL:CG2	2.13	0.61
50:BS:58:LEU:HD23	50:BS:65:VAL:HG13	1.82	0.61
51:BT:23:ARG:HB2	51:BT:24:PRO:HD2	1.82	0.61
52:BU:13:LYS:O	52:BU:17:ILE:HD13	2.00	0.61
52:BU:36:ARG:HA	52:BU:39:LEU:CG	2.29	0.61
53:BV:39:LEU:CD1	53:BV:51:VAL:HA	2.30	0.61
53:BV:95:LEU:HD13	53:BV:97:LYS:HE2	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.35	0.61
1:AA:354:G:H21	1:AA:388:G:H2'	1.65	0.61
1:AA:952:U:O5'	1:AA:952:U:H6	1.83	0.61
1:AA:981:U:H6	1:AA:981:U:O5'	1.83	0.61
2:AB:43:ASP:O	2:AB:44:LEU:C	2.39	0.61
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.00	0.61
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	1.99	0.61
4:AD:201:GLN:HA	4:AD:204:ILE:HD12	1.82	0.61
10:AJ:50:ILE:CD1	10:AJ:60:ARG:HD3	2.28	0.61
15:AO:63:ARG:HG2	15:AO:64:ARG:N	2.14	0.61
18:AR:55:ARG:HG3	18:AR:55:ARG:HH11	1.64	0.61
22:AV:71:C:H3'	22:AV:72:A:H8	1.65	0.61
24:AY:98:ASP:O	24:AY:102:THR:OG1	2.18	0.61
27:B2:36:ARG:HA	27:B2:39:ALA:CB	2.30	0.61
27:B2:54:LYS:HE2	35:BA:73:A:P	2.41	0.61
27:B2:62:THR:O	27:B2:65:ASN:HB2	2.00	0.61
27:B2:69:ARG:NH2	35:BA:111:A:H4'	2.15	0.61
30:B5:5:PRO:HB3	35:BA:2614:A:C4	2.35	0.61
33:B8:28:GLY:O	33:B8:32:LEU:HG	2.00	0.61
34:B9:29:ASN:HD21	34:B9:32:HIS:CD2	2.19	0.61
35:BA:1244:G:O2'	35:BA:1245:G:H5'	1.99	0.61
35:BA:1753:G:N2	35:BA:1755:A:H2'	2.14	0.61
35:BA:2054:A:OP1	39:BE:145:LYS:HE3	1.98	0.61
35:BA:2143:C:H5''	35:BA:2182:G:H4'	1.82	0.61
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.64	0.61
35:BA:2338:G:O5'	35:BA:2338:G:H8	1.84	0.61
35:BA:2391:G:H1'	35:BA:2429:G:N2	2.16	0.61
35:BA:2577:A:H5''	35:BA:2578:G:C5'	2.30	0.61
35:BA:2777:G:C5'	35:BA:2778:A:H5'	2.30	0.61
35:BA:392:C:OP1	35:BA:409:C:OP1	2.17	0.61
35:BA:447:A:O4'	35:BA:449:A:N6	2.33	0.61
36:BB:7:G:H4'	50:BS:29:PHE:CD2	2.35	0.61
37:BC:104:LEU:O	37:BC:105:ASP:HB2	2.00	0.61
38:BD:66:ASP:HB2	38:BD:103:ARG:HD2	1.83	0.61
38:BD:173:VAL:HG13	38:BD:185:VAL:O	1.99	0.61
38:BD:26:LYS:NZ	38:BD:113:VAL:CG2	2.54	0.61
41:BG:114:ILE:HA	41:BG:137:GLU:OE1	2.00	0.61
52:BU:112:ARG:CZ	53:BV:46:VAL:HG21	2.30	0.61
1:AA:1118:C:H42	1:AA:1155:G:H1	1.46	0.61
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.00	0.61
1:AA:503:C:O2'	1:AA:504:C:H5'	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:601:C:H2'	1:AA:602:A:C8	2.33	0.61
1:AA:894:G:H2'	1:AA:895:G:C5'	2.29	0.61
1:AA:940:C:H2'	1:AA:941:G:C8	2.34	0.61
2:AB:9:GLU:N	2:AB:9:GLU:OE1	2.33	0.61
4:AD:118:ARG:CZ	4:AD:136:PRO:HG2	2.30	0.61
4:AD:65:ARG:HB2	4:AD:75:PHE:CD2	2.35	0.61
12:AL:33:ARG:O	12:AL:84:LEU:HD23	2.00	0.61
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.14	0.61
19:AS:51:VAL:HG11	19:AS:75:ALA:CB	2.30	0.61
24:AY:225:GLN:HA	24:AY:228:ARG:CB	2.27	0.61
24:AY:16:PHE:CE2	24:AY:84:VAL:HG11	2.35	0.61
35:BA:1796:U:O2'	35:BA:1797:C:O4'	2.18	0.61
35:BA:2100:G:C3'	35:BA:2101:G:C8	2.81	0.61
35:BA:2462:U:H1'	35:BA:2491:U:O4	2.01	0.61
35:BA:2781:A:H5''	35:BA:2782:G:H5'	1.81	0.61
35:BA:463:G:C2	35:BA:467:G:C6	2.88	0.61
35:BA:769:G:H2'	35:BA:770:G:H8	1.66	0.61
35:BA:962:G:C2	35:BA:963:U:H1'	2.35	0.61
35:BA:977:G:C6	35:BA:987:G:C5	2.88	0.61
38:BD:26:LYS:HZ2	38:BD:113:VAL:CG2	2.14	0.61
39:BE:101:ARG:HD2	39:BE:169:ASN:HD22	1.64	0.61
40:BF:143:ALA:O	40:BF:148:LEU:HB2	2.00	0.61
50:BS:40:ILE:HB	50:BS:46:VAL:O	1.99	0.61
50:BS:88:ASP:CG	50:BS:89:ARG:N	2.53	0.61
51:BT:107:ASP:N	51:BT:110:ILE:HG12	2.13	0.61
52:BU:102:GLU:HB2	52:BU:105:VAL:HG21	1.83	0.61
52:BU:83:LEU:H	52:BU:83:LEU:CD1	2.13	0.61
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.35	0.61
1:AA:1477:C:O2'	1:AA:1478:C:H5'	1.99	0.61
1:AA:582:U:C2	1:AA:583:A:C8	2.88	0.61
1:AA:600:C:H2'	1:AA:601:C:H6	1.66	0.61
13:AM:102:ARG:HD3	13:AM:105:THR:OG1	2.01	0.61
1:AA:728:A:N6	15:AO:51:HIS:CD2	2.69	0.61
18:AR:35:ARG:O	18:AR:37:VAL:N	2.34	0.61
21:AU:9:ARG:NH2	21:AU:23:PRO:HD2	2.15	0.61
22:AV:53:G:H22	22:AV:61:C:H42	1.49	0.61
24:AY:303:ILE:CG1	24:AY:375:ILE:CD1	2.78	0.61
35:BA:1057:A:H2'	35:BA:1058:G:H5'	1.83	0.61
30:B5:11:THR:OG1	35:BA:1264:G:H5'	2.00	0.61
35:BA:1776:G:C8	35:BA:1776:G:O5'	2.53	0.61
35:BA:1803:A:C2'	35:BA:1804:C:H6	2.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.32	0.61
35:BA:2521:C:H42	35:BA:2544:G:H1	1.45	0.61
35:BA:2870:C:H2'	35:BA:2871:C:H5'	1.83	0.61
38:BD:117:VAL:CG2	38:BD:129:ASN:OD1	2.48	0.61
39:BE:113:PHE:HE1	39:BE:158:GLY:HA2	1.64	0.61
39:BE:164:ARG:O	39:BE:165:VAL:HG23	2.00	0.61
40:BF:28:ILE:CG2	40:BF:116:ASP:HB2	2.29	0.61
45:BN:52:VAL:O	45:BN:53:VAL:HG23	1.99	0.61
49:BR:83:ILE:HA	49:BR:86:ARG:HD3	1.83	0.61
51:BT:11:GLU:C	51:BT:13:ARG:H	2.04	0.61
51:BT:130:ALA:O	51:BT:132:LYS:HE2	2.00	0.61
52:BU:88:ILE:HG22	53:BV:48:GLY:O	2.01	0.61
52:BU:9:VAL:HG23	52:BU:10:ARG:N	2.15	0.61
52:BU:112:ARG:NH1	53:BV:46:VAL:HG21	2.16	0.61
54:BW:17:VAL:O	54:BW:20:VAL:HG22	2.01	0.61
48:BQ:137:TYR:OH	57:BZ:81:ARG:NE	2.33	0.61
1:AA:1004:A:N6	1:AA:1035:A:C8	2.69	0.61
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.36	0.61
1:AA:1200:C:OP1	1:AA:1201:A:H2'	2.01	0.61
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.32	0.61
1:AA:1494:G:H2'	1:AA:1495:U:H5'	1.83	0.61
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.15	0.61
1:AA:672:U:HO2'	1:AA:673:G:H8	1.49	0.61
2:AB:210:SER:O	2:AB:213:LEU:HB3	1.99	0.61
2:AB:36:ARG:NE	2:AB:36:ARG:HA	2.15	0.61
3:AC:113:ALA:HB1	3:AC:200:ALA:O	2.01	0.61
13:AM:54:VAL:HG22	13:AM:57:ARG:CZ	2.31	0.61
21:AU:18:TYR:CZ	21:AU:24:ARG:NH1	2.69	0.61
24:AY:12:LYS:O	24:AY:13:ARG:O	2.17	0.61
24:AY:402:ARG:C	24:AY:461:ALA:HB1	2.21	0.61
25:B0:21:LEU:CD1	25:B0:41:ARG:HD3	2.31	0.61
28:B3:35:ARG:HG2	28:B3:36:VAL:H	1.64	0.61
28:B3:7:LYS:HG3	28:B3:32:GLN:O	1.99	0.61
30:B5:49:CYS:O	30:B5:56:LYS:CD	2.47	0.61
35:BA:1056:G:N3	35:BA:1102:C:H5	1.97	0.61
35:BA:1720:U:C3'	35:BA:1721:G:H5''	2.30	0.61
35:BA:1754:C:H2'	35:BA:1755:A:O4'	2.01	0.61
35:BA:2496:C:H2'	35:BA:2497:A:C8	2.35	0.61
35:BA:2688:U:H2'	35:BA:2719:G:N2	2.16	0.61
35:BA:2839:G:OP1	49:BR:46:GLY:CA	2.47	0.61
35:BA:327:G:C2	35:BA:336:C:N3	2.68	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:372:G:H1'	35:BA:373:U:H5	1.65	0.61
35:BA:40:C:H2'	35:BA:41:C:C6	2.35	0.61
35:BA:624:C:H5	47:BP:107:LYS:NZ	1.97	0.61
35:BA:693:C:H1'	35:BA:1354:A:H1'	1.81	0.61
35:BA:8:A:H2'	35:BA:9:U:C5	2.35	0.61
35:BA:909:A:O2'	35:BA:910:A:H5'	2.00	0.61
35:BA:946:G:O2'	35:BA:947:G:H5'	2.01	0.61
37:BC:6:ARG:NH2	37:BC:10:LEU:CD2	2.64	0.61
37:BC:72:VAL:HG11	37:BC:156:ILE:O	2.00	0.61
38:BD:224:ALA:O	38:BD:234:GLY:HA2	1.99	0.61
38:BD:248:SER:CB	38:BD:252:TRP:CE2	2.83	0.61
38:BD:44:ASN:ND2	38:BD:47:GLY:C	2.54	0.61
40:BF:165:ARG:CA	40:BF:168:ARG:HH21	2.13	0.61
42:BH:18:GLU:CB	42:BH:25:LYS:HG3	2.30	0.61
46:BO:61:VAL:HG22	46:BO:62:VAL:O	2.00	0.61
47:BP:106:LEU:O	47:BP:107:LYS:HG2	2.00	0.61
51:BT:25:GLY:O	51:BT:49:VAL:HG12	1.99	0.61
55:BX:14:SER:OG	55:BX:17:ALA:CB	2.49	0.61
57:BZ:45:ASP:CG	57:BZ:49:ARG:HE	2.03	0.61
57:BZ:48:PHE:C	57:BZ:50:GLN:H	2.03	0.61
1:AA:1195:C:C4	1:AA:1197:G:N7	2.68	0.61
1:AA:338:A:H2'	1:AA:339:C:O4'	1.99	0.61
1:AA:545:C:O2'	1:AA:546:G:H5'	2.00	0.61
1:AA:773:G:C2	1:AA:774:G:C8	2.89	0.61
6:AF:98:LEU:CD1	6:AF:98:LEU:N	2.60	0.61
7:AG:124:LEU:O	7:AG:127:ALA:HB3	2.01	0.61
24:AY:101:ARG:NH1	24:AY:390:ILE:HG23	2.15	0.61
24:AY:70:ILE:O	24:AY:90:PRO:HG3	1.99	0.61
24:AY:72:THR:CG2	24:AY:90:PRO:HD3	2.27	0.61
26:B1:44:PRO:CG	26:B1:46:LEU:HD23	2.30	0.61
26:B1:44:PRO:HG2	26:B1:46:LEU:HD23	1.83	0.61
35:BA:1573:G:H3'	35:BA:1574:C:H6	1.66	0.61
35:BA:1996:C:H6	35:BA:1996:C:OP1	1.84	0.61
35:BA:2246:G:O2'	35:BA:2247:A:H5'	2.01	0.61
35:BA:2244:U:H1'	35:BA:2434:A:C5	2.36	0.61
35:BA:2656:U:C2'	35:BA:2657:A:H5''	2.31	0.61
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.34	0.61
35:BA:336:C:H4'	56:BY:7:VAL:HG21	1.81	0.61
35:BA:886:C:C2'	35:BA:887:A:O5'	2.47	0.61
37:BC:185:LEU:O	37:BC:189:ILE:HG13	2.01	0.61
39:BE:46:ALA:O	39:BE:47:VAL:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:93:THR:O	41:BG:94:LEU:HD23	2.01	0.61
51:BT:42:ILE:O	51:BT:42:ILE:HG13	1.99	0.61
51:BT:72:VAL:HG12	51:BT:73:GLU:N	2.15	0.61
53:BV:78:LYS:O	53:BV:79:VAL:HG22	2.00	0.61
30:B5:25:LEU:HB3	54:BW:23:LEU:HD13	1.80	0.61
54:BW:88:ARG:HG2	54:BW:88:ARG:NH1	2.14	0.61
35:BA:482:A:H4'	56:BY:47:LYS:HG2	1.83	0.61
1:AA:274:A:O2'	1:AA:275:G:O4'	2.18	0.61
1:AA:394:G:H2'	1:AA:395:C:C6	2.35	0.61
1:AA:737:A:H2'	1:AA:738:C:H6	1.62	0.61
1:AA:859:A:H2'	1:AA:860:A:O4'	2.01	0.61
2:AB:106:LYS:HD3	2:AB:106:LYS:N	2.14	0.61
3:AC:54:ARG:O	3:AC:55:VAL:CG2	2.43	0.61
1:AA:619:U:O2'	4:AD:133:VAL:HG13	2.00	0.61
4:AD:148:VAL:CG2	4:AD:181:MET:HB3	2.30	0.61
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.69	0.61
10:AJ:43:ARG:HB2	10:AJ:67:THR:CG2	2.28	0.61
13:AM:47:ASP:O	13:AM:48:LEU:HD23	2.00	0.61
13:AM:53:VAL:O	13:AM:56:LEU:HB3	2.00	0.61
1:AA:229:U:OP1	16:AP:59:TRP:HH2	1.83	0.61
24:AY:19:ILE:HG13	24:AY:19:ILE:O	2.00	0.61
24:AY:76:GLN:HB2	24:AY:348:PHE:HB3	1.81	0.61
24:AY:421:GLU:HA	24:AY:529:HIS:CE1	2.36	0.61
35:BA:1287:A:O4'	49:BR:104:ARG:NH2	2.33	0.61
35:BA:2581:G:N2	35:BA:2610:C:H2'	2.16	0.61
35:BA:391:G:O2'	35:BA:392:C:H5'	2.01	0.61
36:BB:66:A:N6	36:BB:108:U:C6	2.69	0.61
37:BC:65:PRO:HG2	37:BC:187:ASP:O	1.99	0.61
39:BE:38:THR:HG22	39:BE:40:GLU:H	1.64	0.61
40:BF:7:TYR:HD2	40:BF:16:GLY:N	1.99	0.61
35:BA:1257:C:O2'	40:BF:84:VAL:N	2.34	0.61
41:BG:82:LEU:HD21	41:BG:86:MET:CE	2.31	0.61
42:BH:40:GLU:O	42:BH:41:MET:HB3	2.00	0.61
35:BA:583:G:P	52:BU:10:ARG:HH11	2.24	0.61
54:BW:68:ARG:O	54:BW:109:GLU:HA	2.00	0.61
57:BZ:104:PHE:HA	57:BZ:139:VAL:HB	1.82	0.61
57:BZ:116:VAL:C	57:BZ:174:VAL:HG13	2.20	0.61
1:AA:1030(A):G:H2'	1:AA:1030(C):G:OP2	2.00	0.61
1:AA:1103:C:H2'	1:AA:1104:G:O4'	2.01	0.61
1:AA:954:G:N2	1:AA:1228:C:N3	2.49	0.61
1:AA:404:U:H5''	4:AD:122:ARG:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:157:ILE:HB	3:AC:164:ARG:HH21	1.64	0.61
3:AC:63:ASN:HA	3:AC:98:ASN:O	2.01	0.61
7:AG:29:LYS:HE2	7:AG:102:ARG:CA	2.22	0.61
11:AK:28:THR:HG22	11:AK:29:ILE:H	1.66	0.61
17:AQ:29:HIS:HB3	17:AQ:33:GLY:N	2.16	0.61
24:AY:272:LEU:O	24:AY:276:ALA:HB2	2.01	0.61
24:AY:303:ILE:HG13	24:AY:375:ILE:HD12	1.83	0.61
24:AY:416:LEU:HD13	24:AY:427:VAL:CG1	2.30	0.61
27:B2:34:GLU:O	27:B2:38:GLN:HG2	2.00	0.61
28:B3:16:PRO:HB3	28:B3:18:ASP:OD1	2.01	0.61
28:B3:22:ALA:O	28:B3:25:ALA:HB3	2.01	0.61
28:B3:8:LEU:HD23	28:B3:8:LEU:C	2.21	0.61
35:BA:1029:A:O2'	35:BA:1030:G:H5'	2.00	0.61
35:BA:1030:G:C6	35:BA:1125:G:N2	2.69	0.61
35:BA:1089:G:N2	35:BA:1102:C:N3	2.48	0.61
35:BA:1919:A:C3'	35:BA:1920:C:H5''	2.28	0.61
35:BA:2306:C:H5	35:BA:2307:G:O2'	1.83	0.61
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.35	0.61
35:BA:2460:U:C2'	35:BA:2461:C:H5'	2.31	0.61
35:BA:2519:U:C4	35:BA:2542:A:C2	2.88	0.61
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.82	0.61
35:BA:2692:C:H2'	35:BA:2693:A:H8	1.65	0.61
35:BA:271(H):G:O2'	35:BA:271(I):G:H8	1.83	0.61
35:BA:271(T):C:H2'	35:BA:271(U):G:C8	2.35	0.61
35:BA:2821:A:H2'	35:BA:2822:G:C8	2.36	0.61
35:BA:2808:U:H5'	35:BA:2891:G:O6	2.01	0.61
35:BA:523:C:O2'	35:BA:524:U:H5'	2.01	0.61
35:BA:528:A:H2	35:BA:2043:C:C4'	2.10	0.61
35:BA:833:U:H2'	35:BA:834:C:H6	1.65	0.61
36:BB:115:G:C4	36:BB:116:G:C8	2.89	0.61
37:BC:141:LYS:HZ3	37:BC:164:ARG:HH21	1.47	0.61
37:BC:25:ALA:HA	37:BC:222:VAL:HG11	1.81	0.61
37:BC:64:LEU:HD11	37:BC:174:PRO:O	2.01	0.61
38:BD:10:THR:O	38:BD:11:PRO:C	2.39	0.61
35:BA:2049:G:H1'	39:BE:113:PHE:HZ	1.66	0.61
35:BA:615:G:OP2	40:BF:40:GLN:HG3	2.00	0.61
41:BG:78:SER:C	41:BG:80:PHE:H	2.04	0.61
46:BO:62:VAL:HA	46:BO:84:ALA:HB2	1.82	0.61
47:BP:50:ARG:CG	47:BP:51:PHE:N	2.61	0.61
51:BT:80:SER:OG	51:BT:81:PRO:HD3	2.00	0.61
1:AA:675:A:O2'	1:AA:676:A:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:973:G:H1'	10:AJ:55:LYS:HZ1	1.65	0.61
1:AA:980:C:H5	1:AA:981:U:O2	1.84	0.61
2:AB:238:LEU:O	2:AB:238:LEU:HG	2.00	0.61
3:AC:17:ASP:O	3:AC:54:ARG:NH2	2.34	0.61
3:AC:35:GLU:OE2	3:AC:97:LYS:NZ	2.23	0.61
5:AE:39:GLY:O	5:AE:69:VAL:HG23	2.01	0.61
8:AH:119:LEU:HB3	8:AH:123:GLU:HB3	1.83	0.61
8:AH:109:ILE:HG23	8:AH:137:VAL:O	2.00	0.61
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.16	0.61
17:AQ:91:ARG:HB3	17:AQ:91:ARG:HH11	1.66	0.61
18:AR:25:THR:O	18:AR:26:LEU:HG	2.01	0.61
21:AU:9:ARG:HH22	21:AU:23:PRO:HD2	1.65	0.61
24:AY:106:VAL:CG2	24:AY:107:ASP:H	2.13	0.61
24:AY:421:GLU:HA	24:AY:529:HIS:HE1	1.66	0.61
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.36	0.61
33:B8:8:LYS:NZ	35:BA:244:A:OP2	2.33	0.61
35:BA:2461:C:H2'	35:BA:2462:U:C6	2.36	0.61
35:BA:2887:U:O2'	35:BA:2888:C:H5'	2.01	0.61
35:BA:673:C:H2'	35:BA:674:G:H5'	1.82	0.61
35:BA:677:A:H2'	35:BA:678:C:H6	1.64	0.61
36:BB:68:C:H2'	36:BB:69:G:O4'	2.01	0.61
37:BC:103:ILE:HG23	37:BC:107:TRP:NE1	2.15	0.61
37:BC:46:LYS:O	37:BC:46:LYS:HG3	2.01	0.61
37:BC:45:ALA:O	37:BC:47:LEU:HD12	2.01	0.61
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.30	0.61
39:BE:138:PRO:HD2	39:BE:139:GLY:H	1.65	0.61
39:BE:28:ALA:CB	39:BE:182:LEU:HD22	2.30	0.61
39:BE:198:VAL:CG1	39:BE:199:ARG:N	2.64	0.61
39:BE:48:GLN:HE22	39:BE:64:LYS:NZ	1.99	0.61
45:BN:16:ILE:HG23	45:BN:54:VAL:HG22	1.82	0.61
45:BN:44:PRO:HG3	52:BU:60:LEU:HD21	1.83	0.61
46:BO:39:ILE:HG12	46:BO:60:ALA:O	2.01	0.61
48:BQ:64:ILE:CG2	48:BQ:65:PHE:N	2.64	0.61
35:BA:583:G:P	52:BU:10:ARG:NH1	2.73	0.61
35:BA:2012:G:C5'	54:BW:96:ILE:HD11	2.30	0.61
55:BX:78:LYS:HG3	55:BX:78:LYS:O	2.00	0.61
57:BZ:10:ARG:NE	57:BZ:36:LYS:HB2	2.14	0.61
1:AA:1298:C:N4	7:AG:114:ARG:HB3	2.15	0.61
1:AA:253:U:O2	1:AA:275:G:H1'	2.01	0.61
1:AA:429:U:OP2	4:AD:36:ARG:NH1	2.34	0.61
1:AA:697:U:O4'	1:AA:786:G:H4'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:36:ARG:N	4:AD:37:PRO:HD3	2.15	0.61
8:AH:86:ILE:CG1	8:AH:135:CYS:HA	2.27	0.61
16:AP:73:LEU:O	16:AP:76:GLN:HB3	2.00	0.61
17:AQ:10:VAL:HG11	17:AQ:53:LEU:HA	1.83	0.61
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.01	0.61
22:AV:35:A:O2'	22:AV:36:U:H5'	2.01	0.61
22:AV:7:G:H2'	22:AV:49:G:OP2	2.01	0.61
24:AY:149:ARG:O	24:AY:150:ASP:HB2	2.00	0.61
24:AY:223:LEU:O	24:AY:227:LEU:HG	2.01	0.61
24:AY:303:ILE:O	24:AY:305:ALA:N	2.34	0.61
24:AY:416:LEU:O	24:AY:419:LEU:N	2.33	0.61
24:AY:70:ILE:HG23	24:AY:95:PHE:CE1	2.35	0.61
35:BA:1087:G:H8	35:BA:1088:A:H4'	1.65	0.61
35:BA:111:A:H2'	35:BA:112:U:C6	2.35	0.61
35:BA:1418:G:O6	35:BA:1578:U:H5''	2.00	0.61
35:BA:1695:G:H2'	35:BA:1696:G:C5'	2.27	0.61
35:BA:2027:G:O2'	35:BA:2028:U:C5'	2.49	0.61
35:BA:961:C:C5	35:BA:2031:A:C2	2.89	0.61
35:BA:2484:G:O2'	48:BQ:124:LYS:HB3	2.00	0.61
30:B5:4:HIS:CG	35:BA:2577:A:HO2'	2.19	0.61
35:BA:363(E):U:C5	35:BA:363(F):A:C2	2.89	0.61
35:BA:444:C:H2'	35:BA:445:C:C5	2.36	0.61
36:BB:111:G:C2'	36:BB:112:U:H5'	2.30	0.61
36:BB:13:A:HO2'	36:BB:14:U:H3'	1.65	0.61
37:BC:166:ASP:O	37:BC:168:THR:N	2.26	0.61
45:BN:18:ALA:HB1	45:BN:21:LYS:CB	2.29	0.61
52:BU:92:ARG:O	52:BU:95:LEU:N	2.25	0.61
53:BV:19:LYS:HE2	53:BV:19:LYS:HA	1.82	0.61
53:BV:57:VAL:HG23	53:BV:98:GLU:O	2.01	0.61
57:BZ:151:HIS:HA	57:BZ:171:ILE:CG1	2.30	0.61
57:BZ:99:TYR:CE1	57:BZ:125:LEU:HD12	2.33	0.61
1:AA:1009:G:H2'	1:AA:1010:G:H8	1.65	0.60
1:AA:1319:A:H5'	1:AA:1320:C:OP1	2.01	0.60
1:AA:1494:G:C2'	1:AA:1495:U:H5'	2.31	0.60
1:AA:505:G:OP2	1:AA:535:A:H5'	2.01	0.60
1:AA:881:G:C2'	1:AA:882:C:H5'	2.31	0.60
9:AI:114:TYR:HE2	10:AJ:59:SER:CA	2.14	0.60
1:AA:1047:G:C5'	14:AN:4:LYS:HE2	2.28	0.60
19:AS:44:MET:O	19:AS:62:ILE:HG12	2.01	0.60
19:AS:51:VAL:HB	19:AS:58:VAL:HG21	1.80	0.60
20:AT:79:ARG:O	20:AT:83:ARG:HG3	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:68:ILE:O	24:AY:68:ILE:HG13	2.00	0.60
25:B0:22:GLY:N	25:B0:39:ARG:O	2.30	0.60
27:B2:36:ARG:C	27:B2:39:ALA:HB3	2.21	0.60
29:B4:6:HIS:HA	41:BG:67:LYS:CE	2.31	0.60
30:B5:41:PRO:HG2	30:B5:44:THR:HB	1.83	0.60
35:BA:1003:G:N3	35:BA:1010:A:H2	1.98	0.60
35:BA:1542:A:H5'	35:BA:1543:C:OP2	2.01	0.60
35:BA:1789:A:OP1	38:BD:222:ARG:N	2.32	0.60
35:BA:2185:C:H2'	35:BA:2186:G:H5'	1.82	0.60
35:BA:2097:C:C2	35:BA:2193:G:N1	2.68	0.60
35:BA:2801:A:C8	35:BA:2894:G:OP1	2.48	0.60
35:BA:739:G:N2	35:BA:740:U:O4	2.31	0.60
38:BD:215:LEU:HB2	38:BD:217:ARG:HG3	1.83	0.60
39:BE:109:LYS:O	39:BE:111:ARG:NE	2.34	0.60
39:BE:127:ASP:HA	39:BE:135:HIS:CD2	2.36	0.60
39:BE:13:ARG:HB3	39:BE:22:PRO:CA	2.26	0.60
39:BE:25:VAL:HA	39:BE:182:LEU:O	2.01	0.60
41:BG:57:ALA:HA	41:BG:90:LEU:HD21	1.83	0.60
42:BH:94:TYR:HE1	42:BH:108:GLY:HA3	1.66	0.60
45:BN:48:MET:H	45:BN:48:MET:CE	2.14	0.60
45:BN:60:ILE:HD13	45:BN:99:LEU:HD23	1.83	0.60
49:BR:76:VAL:HG22	49:BR:80:PHE:CD2	2.35	0.60
51:BT:121:ILE:C	51:BT:124:ASP:HB2	2.20	0.60
55:BX:18:TYR:C	55:BX:20:GLY:H	2.04	0.60
56:BY:39:VAL:HG12	56:BY:40:GLU:N	2.16	0.60
1:AA:265:G:H2'	1:AA:266:G:H5''	1.83	0.60
1:AA:528:C:H4'	1:AA:535:A:C6	2.36	0.60
1:AA:790:A:H2'	1:AA:791:G:C8	2.35	0.60
2:AB:8:LYS:C	2:AB:10:LEU:H	2.04	0.60
2:AB:117:GLU:O	2:AB:120:ALA:HB3	2.01	0.60
6:AF:16:GLN:HA	6:AF:19:LEU:HB3	1.81	0.60
6:AF:87:ARG:NH1	6:AF:87:ARG:HG2	1.99	0.60
8:AH:20:TYR:CE1	8:AH:76:PRO:HG2	2.36	0.60
10:AJ:27:ALA:HA	10:AJ:30:SER:HB3	1.83	0.60
10:AJ:53:PRO:C	14:AN:41:ARG:NH2	2.53	0.60
15:AO:31:LEU:O	15:AO:35:ARG:HG3	2.01	0.60
15:AO:58:MET:O	15:AO:61:GLY:N	2.33	0.60
24:AY:327:LYS:HD3	24:AY:357:GLU:HG3	1.82	0.60
24:AY:9:GLU:OE1	24:AY:360:TYR:OH	2.17	0.60
24:AY:359:ALA:HB1	24:AY:363:ASP:HB3	1.83	0.60
24:AY:469:ALA:C	24:AY:470:THR:HG22	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:46:LEU:HA	26:B1:63:ALA:HA	1.82	0.60
27:B2:55:ARG:O	27:B2:58:ALA:HB3	2.01	0.60
33:B8:10:ALA:O	33:B8:13:ARG:N	2.27	0.60
33:B8:49:VAL:O	33:B8:50:LEU:HB2	2.00	0.60
35:BA:1041:G:C2	35:BA:1042:G:C8	2.89	0.60
35:BA:1710:C:O2	35:BA:1749:A:C2	2.54	0.60
35:BA:1975:G:C6	35:BA:1976:U:C4	2.88	0.60
35:BA:2049:G:O2'	35:BA:2050:C:H5'	2.02	0.60
35:BA:2147:G:C2'	35:BA:2148:G:H5'	2.30	0.60
35:BA:2319:G:H4'	35:BA:2319:G:OP2	2.01	0.60
35:BA:67:U:H2'	35:BA:68:G:H8	1.65	0.60
35:BA:733:G:N2	35:BA:734:A:N7	2.48	0.60
35:BA:80:G:O2'	35:BA:81:G:H5'	2.00	0.60
38:BD:160:GLY:H	38:BD:196:VAL:HG12	1.65	0.60
38:BD:87:ASN:HD22	38:BD:88:ARG:CZ	2.14	0.60
39:BE:47:VAL:HG12	39:BE:49:LEU:HD22	1.82	0.60
40:BF:156:LEU:HD23	40:BF:167:ALA:CB	2.31	0.60
45:BN:93:THR:HG23	45:BN:93:THR:O	2.01	0.60
35:BA:833:U:C5'	47:BP:48:PRO:HG3	2.20	0.60
49:BR:99:LYS:HA	49:BR:112:ALA:HA	1.83	0.60
52:BU:113:ALA:C	52:BU:115:ALA:H	2.04	0.60
53:BV:40:LEU:HA	53:BV:45:THR:HB	1.84	0.60
48:BQ:63:LYS:CG	57:BZ:175:VAL:HG21	2.29	0.60
1:AA:1168:A:OP1	1:AA:1168:A:H8	1.85	0.60
1:AA:1500:A:OP1	1:AA:1508:G:OP1	2.20	0.60
1:AA:507:C:OP1	1:AA:508:C:H3'	2.01	0.60
5:AE:30:ALA:N	5:AE:46:GLY:O	2.32	0.60
14:AN:14:PRO:O	14:AN:15:LYS:O	2.19	0.60
14:AN:15:LYS:O	14:AN:16:PHE:O	2.19	0.60
15:AO:49:ASP:OD2	15:AO:52:SER:CB	2.47	0.60
16:AP:35:LYS:O	16:AP:36:ILE:HG23	2.02	0.60
22:AV:48:C:O2'	22:AV:59:A:H1'	2.01	0.60
24:AY:473:TRP:N	24:AY:524:HIS:O	2.34	0.60
28:B3:46:ASN:C	28:B3:46:ASN:ND2	2.54	0.60
29:B4:35:VAL:CG1	29:B4:36:CYS:N	2.64	0.60
35:BA:1934:C:O2'	35:BA:1935:G:H5'	2.01	0.60
35:BA:2109:U:H1'	35:BA:2181:G:C2	2.36	0.60
35:BA:2199:A:N3	35:BA:2199:A:H2'	2.16	0.60
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.31	0.60
35:BA:2268:A:C2'	35:BA:2269:A:H5'	2.32	0.60
35:BA:2361:A:H2'	35:BA:2362:G:C8	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2529:G:OP2	35:BA:2530:A:H8	1.83	0.60
35:BA:30:G:H2'	35:BA:31:C:H6	1.62	0.60
35:BA:90:U:H2'	35:BA:90:U:O2	2.02	0.60
35:BA:916:G:C2'	35:BA:917:A:H5''	2.31	0.60
35:BA:962:G:C2	35:BA:963:U:C2	2.89	0.60
35:BA:972:G:H3'	35:BA:973:A:H2'	1.83	0.60
38:BD:182:LEU:H	38:BD:272:ALA:CB	2.15	0.60
38:BD:208:LYS:O	38:BD:210:GLY:O	2.20	0.60
38:BD:268:ARG:H	38:BD:270:ILE:HD12	1.66	0.60
40:BF:110:LEU:HD22	40:BF:183:VAL:HG12	1.83	0.60
41:BG:97:ASP:H	41:BG:100:TRP:HD1	1.47	0.60
42:BH:43:VAL:HG11	42:BH:52:VAL:CG2	2.24	0.60
49:BR:38:VAL:HG23	49:BR:110:PRO:HB2	1.82	0.60
50:BS:101:LEU:HD12	50:BS:102:ALA:O	2.02	0.60
35:BA:2875:C:H4'	51:BT:5:ALA:HB2	1.83	0.60
51:BT:72:VAL:HG12	51:BT:73:GLU:H	1.66	0.60
53:BV:93:GLU:O	53:BV:94:LEU:HD23	2.01	0.60
1:AA:495:A:H1'	1:AA:496:A:C8	2.36	0.60
2:AB:102:LEU:CD1	2:AB:102:LEU:H	2.15	0.60
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.84	0.60
7:AG:39:ALA:O	7:AG:42:ILE:HB	2.01	0.60
22:AV:17(A):U:H1'	22:AV:18:G:O5'	2.01	0.60
24:AY:115:ALA:HB1	24:AY:148:ILE:HB	1.83	0.60
24:AY:255:PHE:CD1	24:AY:268:MET:SD	2.95	0.60
24:AY:326:GLU:HA	24:AY:357:GLU:O	2.02	0.60
24:AY:13:ARG:HD2	24:AY:363:ASP:OD2	2.01	0.60
24:AY:72:THR:O	24:AY:74:VAL:N	2.34	0.60
33:B8:56:GLU:N	33:B8:56:GLU:CD	2.51	0.60
34:B9:16:VAL:O	34:B9:17:ILE:O	2.18	0.60
35:BA:1335:U:H2'	35:BA:1336:A:C8	2.37	0.60
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.37	0.60
35:BA:1491:G:N1	35:BA:1500:G:C2	2.69	0.60
35:BA:1569:A:C2	35:BA:1570:A:C4	2.88	0.60
35:BA:1266:G:O2'	35:BA:2012:G:O6	2.17	0.60
35:BA:2598:A:N7	35:BA:2599:G:H1'	2.16	0.60
35:BA:2807:G:H2'	35:BA:2808:U:C5'	2.31	0.60
35:BA:445:C:OP1	52:BU:3:ARG:N	2.35	0.60
35:BA:685:A:C4	35:BA:689:A:N6	2.69	0.60
37:BC:167:LYS:O	37:BC:168:THR:HG23	2.00	0.60
37:BC:4:GLY:O	37:BC:7:TYR:N	2.33	0.60
39:BE:167:VAL:HG12	39:BE:189:PRO:HD2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:25:TYR:CZ	41:BG:32:PRO:HD3	2.37	0.60
42:BH:132:ARG:O	42:BH:133:VAL:CG2	2.49	0.60
48:BQ:32:TYR:HA	48:BQ:133:ARG:HA	1.82	0.60
48:BQ:64:ILE:HG22	48:BQ:65:PHE:N	2.16	0.60
50:BS:17:ARG:C	50:BS:19:LYS:H	2.03	0.60
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.02	0.60
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.30	0.60
1:AA:1351:U:C2	1:AA:1352:C:C5	2.89	0.60
1:AA:253:U:N3	1:AA:274:A:H2	2.00	0.60
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.82	0.60
6:AF:22:GLU:OE2	6:AF:82:ARG:NE	2.35	0.60
9:AI:89:ASN:O	9:AI:92:TYR:HB2	2.02	0.60
10:AJ:38:ILE:HG13	10:AJ:40:LEU:CD2	2.31	0.60
17:AQ:3:LYS:O	17:AQ:4:LYS:O	2.19	0.60
22:AV:36:U:C2'	22:AV:37:A:H5'	2.31	0.60
24:AY:346:LEU:O	24:AY:348:PHE:CZ	2.54	0.60
25:B0:41:ARG:HB3	35:BA:2330:G:H1'	1.83	0.60
35:BA:1019:U:H1'	35:BA:1144:G:H22	1.65	0.60
35:BA:1491:G:O2'	35:BA:1492:G:H5'	2.02	0.60
35:BA:1803:A:H2'	35:BA:1804:C:O4'	2.02	0.60
35:BA:2553:G:C2	35:BA:2583:G:H1'	2.36	0.60
35:BA:1653:G:H5''	35:BA:2822:G:N1	2.17	0.60
35:BA:66:C:H2'	35:BA:67:U:O4'	2.01	0.60
35:BA:696:G:H2'	35:BA:697:C:C6	2.37	0.60
35:BA:711:G:N2	35:BA:721:C:O2'	2.34	0.60
35:BA:824:A:H1'	35:BA:2358:G:N7	2.17	0.60
35:BA:922:U:H2'	35:BA:923:C:C6	2.37	0.60
28:B3:13:ILE:HD11	35:BA:989:G:C6	2.37	0.60
36:BB:68:C:C2	36:BB:69:G:C8	2.89	0.60
37:BC:59:ARG:NH1	37:BC:164:ARG:NH1	2.49	0.60
37:BC:49:ILE:CG2	37:BC:208:PHE:HE1	2.14	0.60
38:BD:95:LEU:HD13	38:BD:103:ARG:O	2.00	0.60
38:BD:111:LEU:CD1	38:BD:115:GLN:HE21	2.14	0.60
40:BF:82:ILE:O	40:BF:83:PHE:CB	2.49	0.60
45:BN:101:HIS:O	45:BN:102:ALA:C	2.39	0.60
45:BN:23:LEU:HB3	45:BN:60:ILE:CG2	2.26	0.60
46:BO:2:ILE:CB	46:BO:33:ALA:HB3	2.20	0.60
47:BP:16:ARG:CD	47:BP:18:ARG:H	2.09	0.60
48:BQ:18:LYS:HB2	48:BQ:18:LYS:NZ	2.16	0.60
55:BX:55:ASN:HB2	55:BX:80:ILE:HG12	1.81	0.60
57:BZ:166:SER:HB2	57:BZ:168:GLU:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:28:MET:HE3	57:BZ:35:ARG:O	2.01	0.60
1:AA:1177:G:O2'	1:AA:1178:G:H5'	2.01	0.60
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.66	0.60
1:AA:169:C:H2'	1:AA:170:U:H5'	1.83	0.60
1:AA:19:C:O2'	1:AA:20:U:H5'	2.01	0.60
1:AA:225:C:H2'	1:AA:226:G:H8	1.66	0.60
1:AA:285:G:O2'	1:AA:286:G:H5'	2.01	0.60
1:AA:369:C:H6	1:AA:369:C:O5'	1.84	0.60
1:AA:405:U:C3'	1:AA:406:G:H5'	2.23	0.60
2:AB:148:TYR:C	2:AB:149:LEU:HD23	2.22	0.60
2:AB:74:LYS:NZ	2:AB:74:LYS:HB2	2.15	0.60
3:AC:142:MET:O	3:AC:144:SER:N	2.34	0.60
3:AC:58:GLU:C	3:AC:59:ARG:HG2	2.21	0.60
4:AD:200:GLU:O	4:AD:204:ILE:HG13	2.01	0.60
4:AD:13:ARG:HA	4:AD:33:MET:HE2	1.82	0.60
8:AH:9:MET:SD	8:AH:36:LEU:HD21	2.42	0.60
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.01	0.60
13:AM:68:GLY:C	13:AM:70:LEU:H	2.05	0.60
1:AA:1060:C:P	14:AN:45:ARG:HH22	2.25	0.60
24:AY:189:GLU:HB2	24:AY:206:ILE:CG2	2.31	0.60
24:AY:231:LEU:HD12	24:AY:231:LEU:O	2.01	0.60
24:AY:444:LEU:O	24:AY:447:ASP:N	2.34	0.60
25:B0:45:PHE:HE1	25:B0:77:ARG:HE	1.49	0.60
28:B3:7:LYS:HA	28:B3:34:GLU:HA	1.82	0.60
34:B9:26:ILE:CG2	34:B9:27:CYS:H	2.14	0.60
35:BA:1061:U:C5'	35:BA:1070:A:H1'	2.31	0.60
35:BA:1205:U:H4'	35:BA:1206:G:OP2	2.00	0.60
35:BA:1222:C:C2'	35:BA:1223:G:H5''	2.28	0.60
35:BA:1317:A:C2	35:BA:1336:A:C2	2.90	0.60
35:BA:1494:A:O2'	35:BA:1495:A:H5''	2.01	0.60
35:BA:1528(A):A:C8	35:BA:1529:G:C8	2.90	0.60
35:BA:1814:G:C4'	38:BD:51:VAL:HG21	2.31	0.60
35:BA:204:A:H8	35:BA:204:A:OP1	1.84	0.60
35:BA:2268:A:O2'	35:BA:2269:A:C5'	2.48	0.60
35:BA:2358:G:H2'	35:BA:2359:C:H6	1.67	0.60
35:BA:2557:G:H2'	35:BA:2558:C:C6	2.36	0.60
35:BA:730:C:H2'	35:BA:731:C:H6	1.64	0.60
37:BC:59:ARG:NE	37:BC:164:ARG:HD2	2.17	0.60
38:BD:147:LEU:O	38:BD:189:CYS:SG	2.58	0.60
46:BO:43:VAL:HG21	46:BO:52:VAL:CG1	2.31	0.60
50:BS:30:ARG:HH22	50:BS:62:LYS:CB	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BV:5:VAL:CG2	53:BV:35:LEU:HB3	2.30	0.60
54:BW:21:VAL:C	54:BW:23:LEU:H	2.04	0.60
1:AA:1339:A:H2'	1:AA:1340:A:O4'	2.02	0.60
1:AA:1374:A:O2'	1:AA:1375:A:H5'	2.02	0.60
1:AA:1491:G:H3'	1:AA:1492:A:C8	2.35	0.60
1:AA:706:A:H1'	11:AK:29:ILE:HD11	1.83	0.60
1:AA:751:U:H3'	1:AA:752:G:C8	2.36	0.60
1:AA:764:C:H2'	1:AA:765:G:O4'	2.01	0.60
2:AB:12:GLU:C	2:AB:14:GLY:N	2.53	0.60
1:AA:668:G:O4'	15:AO:49:ASP:HB2	2.02	0.60
22:AV:23:C:O5'	22:AV:23:C:H6	1.84	0.60
27:B2:33:MET:SD	55:BX:5:TYR:HB3	2.41	0.60
30:B5:25:LEU:HD12	54:BW:19:LEU:O	2.01	0.60
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.78	0.60
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.02	0.60
35:BA:1754:C:C5	35:BA:1755:A:N7	2.69	0.60
35:BA:2070:G:C2	35:BA:2071:A:C4	2.90	0.60
35:BA:221:A:O2'	35:BA:222:A:OP2	2.18	0.60
35:BA:2469:A:H3'	35:BA:2470:G:O4'	2.02	0.60
35:BA:2689:U:H4'	35:BA:2690:C:OP2	2.01	0.60
35:BA:977:G:O2'	35:BA:978:G:H5'	2.02	0.60
36:BB:30:C:H2'	36:BB:31:C:O4'	2.01	0.60
38:BD:183:ARG:HB2	38:BD:270:ILE:HG22	1.84	0.60
38:BD:183:ARG:NH2	38:BD:269:PHE:HD2	2.00	0.60
38:BD:213:ARG:HH11	38:BD:219:PRO:HD3	1.62	0.60
38:BD:265:PRO:O	38:BD:267:SER:N	2.35	0.60
38:BD:43:ARG:HD2	38:BD:49:ILE:HD13	1.84	0.60
35:BA:2579:C:C4'	39:BE:134:ILE:HG21	2.32	0.60
40:BF:28:ILE:CD1	40:BF:28:ILE:H	2.14	0.60
41:BG:171:ALA:O	41:BG:172:LEU:C	2.39	0.60
42:BH:12:PRO:HD2	42:BH:15:VAL:HG11	1.84	0.60
35:BA:1068:G:OP2	44:BK:22:UNK:N	2.35	0.60
51:BT:59:THR:OG1	51:BT:78:LEU:HD12	2.02	0.60
53:BV:5:VAL:HG23	53:BV:37:VAL:O	2.01	0.60
1:AA:920:U:C1'	1:AA:1080:A:C2	2.84	0.60
1:AA:141:A:C4'	1:AA:182:U:H1'	2.32	0.60
1:AA:1423:G:H5''	46:BO:49:ARG:NH1	2.16	0.60
1:AA:247:G:OP2	17:AQ:99:SER:HB2	2.01	0.60
1:AA:670:G:O2'	1:AA:671:G:H5'	2.01	0.60
5:AE:136:MET:HA	5:AE:139:LEU:HD12	1.84	0.60
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:32:ILE:HD13	11:AK:72:ALA:HB2	1.84	0.60
11:AK:91:ARG:NH1	11:AK:91:ARG:HG3	2.13	0.60
1:AA:1049:U:HO2'	14:AN:2:ALA:N	2.00	0.60
21:AU:23:PRO:C	21:AU:25:LYS:N	2.55	0.60
22:AV:42:G:H2'	22:AV:43:A:O4'	2.02	0.60
24:AY:349:MET:HE3	24:AY:358:GLU:CG	2.29	0.60
24:AY:305:ALA:HB2	24:AY:423:GLY:H	1.65	0.60
27:B2:2:LYS:O	27:B2:5:GLU:HG2	2.00	0.60
27:B2:35:LEU:CD1	27:B2:50:ILE:HG13	2.23	0.60
30:B5:28:PRO:CG	54:BW:35:ILE:HG23	2.32	0.60
32:B7:32:LYS:HE2	35:BA:180:G:OP2	2.01	0.60
33:B8:21:LYS:HD2	35:BA:651:G:OP1	2.02	0.60
34:B9:7:VAL:O	35:BA:1031:G:O2'	2.14	0.60
35:BA:1919:A:H2'	35:BA:1920:C:C5'	2.21	0.60
35:BA:2300:G:H2'	35:BA:2301:C:C6	2.37	0.60
35:BA:2626:C:H2'	35:BA:2627:G:H8	1.67	0.60
35:BA:1050:A:H1'	35:BA:2751:G:N2	2.16	0.60
35:BA:588:U:O4	35:BA:670:A:H1'	2.01	0.60
35:BA:824:A:H2'	35:BA:825:C:H6	1.66	0.60
37:BC:59:ARG:NH2	37:BC:142:ALA:HB2	2.17	0.60
38:BD:80:ALA:CB	38:BD:96:HIS:NE2	2.65	0.60
39:BE:195:LEU:O	39:BE:196:VAL:HG13	2.01	0.60
39:BE:51:PHE:HD1	39:BE:52:LEU:N	1.96	0.60
40:BF:109:GLY:O	40:BF:112:MET:HB3	2.02	0.60
41:BG:52:ILE:CG1	41:BG:53:LEU:H	2.07	0.60
42:BH:106:THR:CB	42:BH:112:PRO:HA	2.32	0.60
49:BR:24:GLN:HA	49:BR:27:SER:HB2	1.84	0.60
49:BR:96:ARG:HB2	49:BR:96:ARG:CZ	2.29	0.60
51:BT:32:TYR:O	51:BT:42:ILE:HA	2.00	0.60
51:BT:52:ILE:HG12	51:BT:61:PHE:HB3	1.84	0.60
52:BU:27:LEU:HA	52:BU:30:LYS:CG	2.32	0.60
35:BA:483:A:H4'	56:BY:48:ALA:O	2.01	0.60
57:BZ:120:ILE:CG1	57:BZ:172:ALA:HA	2.27	0.60
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.33	0.60
1:AA:1480:G:C6	1:AA:1481:U:C4	2.89	0.60
1:AA:245:C:O2'	1:AA:246:A:H5'	2.01	0.60
1:AA:359:U:H2'	1:AA:360:A:C8	2.35	0.60
1:AA:742:G:O2'	1:AA:743:U:H5'	2.02	0.60
1:AA:848:C:H2'	1:AA:849:C:H6	1.66	0.60
1:AA:836:G:C6	1:AA:851:G:C6	2.90	0.60
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.62	0.60
8:AH:4:ASP:OD1	8:AH:6:ILE:HB	2.00	0.60
10:AJ:38:ILE:HG13	10:AJ:40:LEU:HD21	1.82	0.60
11:AK:115:PRO:C	11:AK:117:ASN:N	2.52	0.60
1:AA:1060:C:H5'	14:AN:45:ARG:HH21	1.66	0.60
15:AO:3:ILE:HG12	15:AO:8:LYS:HE2	1.80	0.60
24:AY:135:THR:HG22	24:AY:136:PRO:CD	2.25	0.60
24:AY:281:PRO:HB3	24:AY:290:GLU:HA	1.83	0.60
24:AY:302:LYS:O	24:AY:316:ALA:C	2.39	0.60
24:AY:325:TYR:CE2	24:AY:357:GLU:OE2	2.54	0.60
26:B1:87:PRO:HG2	26:B1:88:LYS:N	2.17	0.60
35:BA:1526:G:O2'	35:BA:1527:G:H5'	2.02	0.60
35:BA:2180:U:H2'	35:BA:2181:G:C8	2.36	0.60
35:BA:2801:A:O2'	35:BA:2895:U:H5'	2.01	0.60
26:B1:45:ASN:HB2	35:BA:397:G:H5''	1.83	0.60
35:BA:479:A:N3	35:BA:481:G:O4'	2.35	0.60
35:BA:729:G:O6	38:BD:208:LYS:HB2	2.01	0.60
35:BA:955:C:C2'	35:BA:956:G:H5'	2.32	0.60
37:BC:47:LEU:CD1	37:BC:171:ILE:HD12	2.30	0.60
37:BC:41:VAL:HG12	37:BC:43:VAL:HG23	1.84	0.60
38:BD:33:LEU:HD23	38:BD:34:VAL:H	1.67	0.60
39:BE:9:VAL:O	39:BE:192:ASN:OD1	2.20	0.60
40:BF:26:ALA:C	40:BF:27:GLU:HG3	2.22	0.60
41:BG:42:GLY:CA	41:BG:90:LEU:H	2.10	0.60
42:BH:86:GLU:N	42:BH:86:GLU:OE1	2.34	0.60
47:BP:80:TYR:HA	47:BP:111:ARG:CB	2.32	0.60
49:BR:61:HIS:CE1	49:BR:65:LEU:HD22	2.36	0.60
51:BT:32:TYR:HD1	51:BT:32:TYR:N	1.99	0.60
35:BA:2845:G:H5''	51:BT:54:ARG:O	2.01	0.60
35:BA:532:A:H5''	52:BU:28:ARG:NH2	2.15	0.60
54:BW:43:GLY:O	54:BW:45:TYR:N	2.35	0.60
55:BX:54:VAL:HG22	55:BX:81:VAL:HG12	1.84	0.60
56:BY:43:ASN:CB	56:BY:64:GLU:HA	2.30	0.60
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.36	0.60
1:AA:1393:U:H2'	1:AA:1395:C:C5	2.32	0.60
1:AA:59:A:H3'	1:AA:331:G:H22	1.66	0.60
1:AA:507:C:OP2	1:AA:508:C:C2'	2.46	0.60
1:AA:570:G:O4'	1:AA:820:U:C2	2.55	0.60
1:AA:950:U:H2'	1:AA:951:G:H8	1.64	0.60
2:AB:222:ILE:H	2:AB:222:ILE:HD13	1.67	0.60
5:AE:50:GLU:HA	5:AE:50:GLU:OE1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:49:ILE:O	7:AG:50:ILE:C	2.40	0.60
3:AC:5:ILE:HG21	14:AN:58:LYS:NZ	2.17	0.60
16:AP:3:LYS:HA	16:AP:65:GLN:H	1.66	0.60
24:AY:21:HIS:HA	24:AY:122:ARG:HB2	1.84	0.60
24:AY:79:TYR:CD1	24:AY:80:HIS:N	2.68	0.60
30:B5:8:LYS:HG2	35:BA:2054:A:C2	2.37	0.60
31:B6:33:LYS:O	31:B6:34:LEU:HB2	2.01	0.60
33:B8:30:ARG:HA	33:B8:30:ARG:HE	1.66	0.60
35:BA:1498:C:C2'	35:BA:1499:C:H5'	2.31	0.60
35:BA:1600:C:O5'	35:BA:1600:C:H6	1.85	0.60
35:BA:2052:G:O4'	39:BE:142:GLY:HA3	2.01	0.60
35:BA:2472:G:N2	35:BA:2478:A:H62	1.97	0.60
35:BA:2573:C:OP1	35:BA:2574:G:OP1	2.19	0.60
35:BA:2879:C:H4'	35:BA:2880:C:OP1	2.02	0.60
35:BA:438:G:H2'	35:BA:440:G:C8	2.37	0.60
35:BA:879:G:N1	35:BA:898:C:N4	2.50	0.60
40:BF:132:VAL:HG22	40:BF:133:ASN:ND2	2.17	0.60
41:BG:125:PHE:HD2	41:BG:131:TYR:HB2	1.67	0.60
47:BP:92:GLU:HA	47:BP:123:LEU:CD1	2.32	0.60
50:BS:106:ARG:HD2	50:BS:107:GLU:N	2.17	0.60
52:BU:115:ALA:O	52:BU:117:GLN:N	2.35	0.60
52:BU:92:ARG:HD3	52:BU:94:ASN:CB	2.24	0.60
53:BV:39:LEU:HA	53:BV:47:VAL:HG11	1.84	0.60
53:BV:52:VAL:CG1	53:BV:55:ALA:HB3	2.29	0.60
54:BW:26:GLY:C	54:BW:27:LYS:HG3	2.22	0.60
1:AA:1309:G:O2'	1:AA:1310:G:H5'	2.02	0.59
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.01	0.59
1:AA:1395:C:H4'	1:AA:1401:G:H21	1.66	0.59
1:AA:966:G:C2	1:AA:967:C:C2	2.90	0.59
1:AA:980:C:C5	1:AA:981:U:O2	2.55	0.59
2:AB:54:THR:CG2	2:AB:201:ILE:HD11	2.19	0.59
2:AB:222:ILE:O	2:AB:226:ARG:HG3	2.02	0.59
4:AD:70:ILE:HG22	4:AD:71:SER:N	2.16	0.59
11:AK:94:ALA:O	11:AK:97:ALA:HB3	2.02	0.59
16:AP:45:THR:C	16:AP:47:ASP:N	2.53	0.59
19:AS:63:THR:CG2	19:AS:66:MET:HG2	2.32	0.59
24:AY:13:ARG:HD3	24:AY:363:ASP:OD2	1.98	0.59
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.36	0.59
35:BA:2219:G:O2'	35:BA:2220:G:H5'	2.02	0.59
35:BA:2393:A:C2	35:BA:2394:C:H1'	2.37	0.59
35:BA:2653:U:H5''	35:BA:2654:A:H2'	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2769:C:H2'	35:BA:2770:G:C8	2.37	0.59
35:BA:640:C:N4	35:BA:641:C:H41	2.00	0.59
35:BA:654(I):C:H5''	35:BA:654(J):A:OP1	2.02	0.59
35:BA:762:U:H5'	35:BA:763:G:H21	1.66	0.59
38:BD:93:ALA:N	38:BD:105:ILE:O	2.35	0.59
38:BD:106:ILE:O	38:BD:108:PRO:CD	2.49	0.59
38:BD:70:TRP:NE1	38:BD:150:LYS:HE3	2.16	0.59
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.51	0.59
39:BE:3:GLY:O	39:BE:4:ILE:CB	2.49	0.59
40:BF:179:GLU:O	40:BF:181:LEU:N	2.34	0.59
42:BH:137:ASP:O	42:BH:141:VAL:HG13	2.02	0.59
42:BH:41:MET:HG3	42:BH:42:ARG:O	2.02	0.59
42:BH:85:LYS:NZ	42:BH:87:LEU:CD1	2.63	0.59
45:BN:56:ASN:H	45:BN:125:GLY:H	1.49	0.59
45:BN:74:ARG:NH2	45:BN:83:LYS:HD3	2.17	0.59
47:BP:107:LYS:O	47:BP:109:GLY:N	2.35	0.59
48:BQ:75:THR:HG21	48:BQ:87:LYS:HZ3	1.65	0.59
49:BR:48:VAL:HA	49:BR:51:LEU:CG	2.32	0.59
51:BT:62:THR:HA	51:BT:75:ILE:HA	1.83	0.59
51:BT:48:ILE:O	51:BT:63:VAL:HG13	2.01	0.59
52:BU:112:ARG:O	52:BU:115:ALA:HB3	2.01	0.59
52:BU:92:ARG:HB2	53:BV:11:GLN:NE2	2.17	0.59
53:BV:28:GLU:HB3	53:BV:29:PRO:CD	2.32	0.59
35:BA:1598:C:H5'	55:BX:36:LYS:HD3	1.84	0.59
1:AA:1179:A:H2'	1:AA:1180:A:O5'	2.01	0.59
1:AA:332:G:H2'	1:AA:333:G:C8	2.34	0.59
1:AA:574:A:N3	1:AA:883:C:H1'	2.17	0.59
3:AC:165:THR:O	3:AC:165:THR:HG23	2.00	0.59
4:AD:52:SER:O	4:AD:53:ASP:C	2.40	0.59
7:AG:15:ASP:HB3	7:AG:19:GLY:C	2.23	0.59
14:AN:53:LEU:CB	14:AN:56:VAL:HG21	2.30	0.59
23:AX:16:A:H2'	23:AX:17:U:H6	1.67	0.59
24:AY:307:MET:HG2	24:AY:313:ASP:H	1.67	0.59
24:AY:4:SER:OG	24:AY:5:PRO:HD2	2.01	0.59
26:B1:22:GLY:O	26:B1:32:LYS:HE2	2.01	0.59
35:BA:1264:G:C8	35:BA:1265:A:C8	2.90	0.59
35:BA:1286:A:C2	35:BA:1329:U:C6	2.90	0.59
35:BA:1297:C:OP2	35:BA:2710:C:H4'	2.02	0.59
35:BA:1266:G:O2'	35:BA:2012:G:C6	2.55	0.59
35:BA:271(L):U:H5''	35:BA:271(M):G:C5'	2.26	0.59
35:BA:2741:A:H2'	35:BA:2742:C:H5'	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2744:G:H22	42:BH:143:GLN:NE2	1.84	0.59
36:BB:40:U:H3'	36:BB:41:U:C5'	2.30	0.59
37:BC:49:ILE:HG23	37:BC:208:PHE:CD1	2.37	0.59
37:BC:47:LEU:N	37:BC:47:LEU:CD1	2.63	0.59
39:BE:1:MET:HB3	39:BE:200:GLU:CD	2.22	0.59
39:BE:67:PHE:HD1	39:BE:68:ALA:H	1.50	0.59
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.17	0.59
41:BG:15:VAL:HG12	41:BG:19:LEU:HD11	1.84	0.59
53:BV:58:VAL:CG1	53:BV:59:ALA:H	2.12	0.59
54:BW:3:ALA:O	54:BW:106:ILE:HA	2.02	0.59
57:BZ:45:ASP:O	57:BZ:46:LYS:C	2.40	0.59
1:AA:1296:C:H4'	1:AA:1302:U:C5	2.36	0.59
1:AA:1359:C:H3'	14:AN:35:ARG:NH2	2.17	0.59
1:AA:1393:U:H5'	1:AA:1502:A:OP1	2.02	0.59
2:AB:33:TYR:CE1	2:AB:43:ASP:OD1	2.54	0.59
5:AE:12:LEU:O	5:AE:13:ILE:HD12	2.00	0.59
6:AF:74:ASP:HB3	6:AF:77:ARG:NH2	2.14	0.59
7:AG:64:GLN:HE21	7:AG:68:ASN:ND2	1.99	0.59
12:AL:43:VAL:N	12:AL:53:ARG:O	2.27	0.59
16:AP:20:VAL:HA	16:AP:36:ILE:CG1	2.31	0.59
18:AR:69:THR:HA	18:AR:72:ARG:HD2	1.84	0.59
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.16	0.59
19:AS:43:GLU:HG2	29:B4:47:GLN:NE2	2.17	0.59
21:AU:24:ARG:O	21:AU:24:ARG:CG	2.50	0.59
1:AA:55:A:C4	24:AY:311:HIS:NE2	2.69	0.59
24:AY:303:ILE:CG1	24:AY:375:ILE:HD11	2.32	0.59
26:B1:54:ALA:HB1	26:B1:56:GLN:HE21	1.66	0.59
27:B2:21:LEU:O	27:B2:24:LEU:HB3	2.02	0.59
35:BA:1041:G:H22	35:BA:1114:G:N2	2.00	0.59
35:BA:1645:G:H5''	35:BA:1646:C:H5'	1.84	0.59
35:BA:15:G:H2'	35:BA:16:G:H8	1.67	0.59
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.37	0.59
35:BA:2737:G:O5'	35:BA:2737:G:H8	1.86	0.59
35:BA:687:C:H42	35:BA:787:U:H4'	1.66	0.59
36:BB:48:A:C6	36:BB:49:C:N4	2.70	0.59
36:BB:82:G:H2'	36:BB:83:G:C8	2.37	0.59
38:BD:117:VAL:HG22	38:BD:118:VAL:H	1.67	0.59
38:BD:37:LEU:HD13	38:BD:62:TYR:CD1	2.38	0.59
35:BA:2312:U:OP1	41:BG:73:ALA:CA	2.50	0.59
47:BP:33:ARG:O	47:BP:34:GLY:O	2.20	0.59
48:BQ:78:PRO:O	48:BQ:81:VAL:HG12	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:34:HIS:C	50:BS:35:ILE:HG22	2.22	0.59
51:BT:62:THR:CG2	51:BT:75:ILE:HG23	2.31	0.59
51:BT:77:PRO:O	51:BT:78:LEU:HB2	2.02	0.59
52:BU:43:GLY:O	53:BV:73:SER:O	2.20	0.59
52:BU:6:THR:HG21	52:BU:10:ARG:NH2	2.17	0.59
56:BY:15:VAL:HB	56:BY:23:ARG:O	2.02	0.59
57:BZ:177:PRO:O	57:BZ:178:GLU:OE1	2.19	0.59
57:BZ:63:ASP:HB3	57:BZ:65:GLN:NE2	2.17	0.59
1:AA:1013:G:O2'	1:AA:1015:A:N7	2.34	0.59
1:AA:896:C:H2'	1:AA:897:C:H5'	1.84	0.59
3:AC:87:LEU:HD23	3:AC:87:LEU:N	2.17	0.59
7:AG:115:ARG:O	7:AG:118:VAL:HG22	2.01	0.59
10:AJ:8:LEU:N	10:AJ:8:LEU:HD12	2.18	0.59
12:AL:37:CYS:SG	12:AL:81:SER:O	2.59	0.59
12:AL:45:PRO:CD	12:AL:51:ALA:O	2.50	0.59
13:AM:32:GLU:O	13:AM:35:GLU:HG2	2.02	0.59
17:AQ:59:ILE:HG22	17:AQ:60:ILE:N	2.18	0.59
19:AS:16:LEU:C	19:AS:18:LYS:H	2.04	0.59
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.13	0.59
19:AS:45:VAL:HA	19:AS:62:ILE:HG12	1.83	0.59
22:AV:27:U:H2'	22:AV:27:U:O2	2.00	0.59
24:AY:178:LEU:O	24:AY:180:LYS:HG3	2.01	0.59
24:AY:25:GLY:O	24:AY:29:ILE:N	2.26	0.59
24:AY:473:TRP:CD2	24:AY:527:ARG:HG2	2.37	0.59
25:B0:72:ARG:HB2	25:B0:75:LEU:HB3	1.84	0.59
26:B1:43:TYR:O	35:BA:396:G:O2'	2.17	0.59
28:B3:8:LEU:HD22	28:B3:31:LEU:HA	1.84	0.59
35:BA:1055:G:N2	35:BA:1085:A:H1'	2.17	0.59
35:BA:1061:U:O4	44:BK:55:UNK:HA	2.02	0.59
35:BA:13:A:H61	35:BA:525:U:H3'	1.66	0.59
35:BA:1753:G:N2	35:BA:1758:G:N7	2.47	0.59
35:BA:233:A:H2'	35:BA:234:C:H6	1.66	0.59
35:BA:2385:C:O2	35:BA:2386:C:C6	2.55	0.59
35:BA:2628:C:O2'	35:BA:2781:A:H2'	2.02	0.59
35:BA:2685:G:H4'	46:BO:67:LYS:NZ	2.17	0.59
35:BA:271(Y):U:OP1	35:BA:272(D):G:H5''	2.01	0.59
35:BA:44:G:H21	35:BA:435:C:N4	2.00	0.59
35:BA:782:A:H2	38:BD:226:MET:CG	2.10	0.59
36:BB:69:G:C2	36:BB:70:C:C6	2.90	0.59
37:BC:11:LEU:C	37:BC:13:LYS:H	2.05	0.59
37:BC:103:ILE:HD12	37:BC:127:MET:CE	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:24:ILE:HG12	38:BD:82:ILE:HG21	1.85	0.59
40:BF:199:TRP:O	40:BF:202:PHE:HB3	2.02	0.59
48:BQ:55:VAL:HA	48:BQ:58:PHE:HE1	1.63	0.59
51:BT:16:ARG:HH22	51:BT:19:LEU:HD21	1.66	0.59
51:BT:62:THR:HG22	51:BT:75:ILE:CG1	2.32	0.59
35:BA:2847:U:H5''	51:BT:97:ALA:HB2	1.85	0.59
53:BV:3:ALA:HB3	53:BV:14:VAL:O	2.02	0.59
57:BZ:43:GLU:O	57:BZ:47:VAL:HG23	2.03	0.59
1:AA:547:A:OP2	4:AD:2:GLY:N	2.34	0.59
3:AC:68:VAL:HG23	3:AC:102:ASN:O	2.02	0.59
3:AC:108:ASN:O	3:AC:111:LEU:HB2	2.03	0.59
6:AF:11:ASN:ND2	6:AF:86:ARG:HH22	1.99	0.59
20:AT:53:LEU:HD22	20:AT:100:ILE:O	2.02	0.59
24:AY:403:LEU:CD2	24:AY:403:LEU:H	2.13	0.59
24:AY:446:PHE:O	24:AY:449:VAL:HG23	2.01	0.59
34:B9:30:PRO:C	34:B9:32:HIS:H	2.05	0.59
35:BA:104:U:H2'	35:BA:105:C:C5'	2.33	0.59
35:BA:1193:G:H2'	35:BA:1194:A:O4'	2.02	0.59
35:BA:1308:A:H2'	35:BA:1309:G:O4'	2.03	0.59
35:BA:1826:G:C4'	38:BD:242:ARG:NH2	2.66	0.59
35:BA:1858:G:C6	35:BA:1883:G:C6	2.90	0.59
35:BA:2635:C:OP1	39:BE:77:ILE:HD12	2.03	0.59
35:BA:597:U:H2'	35:BA:598:G:C8	2.36	0.59
35:BA:940:G:H2'	35:BA:941:A:H5''	1.85	0.59
38:BD:235:GLY:O	38:BD:236:GLY:O	2.21	0.59
35:BA:601:C:C4'	40:BF:108:LYS:HZ1	2.16	0.59
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.84	0.59
40:BF:110:LEU:HD12	40:BF:206:ILE:CD1	2.32	0.59
46:BO:87:ILE:HG22	46:BO:92:GLU:N	2.18	0.59
50:BS:35:ILE:HD11	50:BS:99:LYS:CE	2.28	0.59
53:BV:72:VAL:CG2	53:BV:85:LYS:HB3	2.27	0.59
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.20	0.59
1:AA:1284:C:H2'	1:AA:1285:A:H8	1.68	0.59
1:AA:345:C:H4'	1:AA:346:G:OP1	2.03	0.59
1:AA:46:G:O2'	1:AA:365:U:H1'	2.03	0.59
1:AA:505:G:H2'	1:AA:506:G:H8	1.67	0.59
1:AA:866:C:H2'	1:AA:867:G:O4'	2.01	0.59
5:AE:41:VAL:O	5:AE:66:MET:CA	2.48	0.59
5:AE:47:LYS:O	5:AE:48:ALA:CB	2.51	0.59
9:AI:87:GLN:HG2	9:AI:88:TYR:HD1	1.67	0.59
13:AM:70:LEU:HA	13:AM:73:GLU:CB	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:23:GLY:O	15:AO:24:SER:CB	2.50	0.59
15:AO:55:GLY:O	15:AO:59:MET:HG3	2.02	0.59
15:AO:3:ILE:CD1	15:AO:8:LYS:HE2	2.32	0.59
18:AR:86:VAL:O	18:AR:87:ARG:HB3	2.01	0.59
19:AS:29:ARG:HB2	19:AS:48:THR:HB	1.84	0.59
19:AS:58:VAL:HG23	19:AS:58:VAL:O	2.03	0.59
24:AY:128:GLU:O	24:AY:131:ARG:HG3	2.01	0.59
24:AY:34:LEU:HD21	24:AY:86:LEU:HD23	1.85	0.59
34:B9:29:ASN:ND2	34:B9:32:HIS:CE1	2.70	0.59
35:BA:1516:C:C2'	35:BA:1517:G:H5''	2.31	0.59
35:BA:1894:C:O2	35:BA:1894:C:H2'	2.02	0.59
35:BA:1971:A:N7	38:BD:241:PRO:HG3	2.17	0.59
25:B0:20:ARG:HD3	35:BA:2356:C:O3'	2.03	0.59
35:BA:2498:C:H2'	35:BA:2499:C:H5''	1.85	0.59
35:BA:432:A:H2'	35:BA:433:C:H6	1.66	0.59
35:BA:482:A:N6	35:BA:506:G:C8	2.70	0.59
32:B7:2:LYS:CE	35:BA:687:C:H5''	2.32	0.59
35:BA:912:C:C2'	35:BA:913:U:H5'	2.32	0.59
35:BA:988:A:C2	35:BA:989:G:N2	2.71	0.59
36:BB:57:A:H2'	36:BB:57:A:N3	2.17	0.59
38:BD:24:ILE:HG21	38:BD:84:TYR:N	2.18	0.59
39:BE:1:MET:HB3	39:BE:200:GLU:OE2	2.03	0.59
41:BG:71:THR:CG2	41:BG:72:ARG:N	2.65	0.59
45:BN:4:TYR:CD1	45:BN:4:TYR:N	2.68	0.59
49:BR:101:ALA:O	49:BR:102:GLU:HB2	2.02	0.59
49:BR:20:LEU:O	49:BR:22:ARG:N	2.36	0.59
50:BS:69:VAL:O	50:BS:72:ALA:HB3	2.01	0.59
55:BX:30:VAL:HG21	55:BX:39:ILE:HD11	1.83	0.59
57:BZ:117:LEU:HD12	57:BZ:118:GLN:H	1.68	0.59
1:AA:376:G:O3'	16:AP:5:ARG:HD3	2.02	0.59
1:AA:575:G:C5	1:AA:881:G:C2	2.91	0.59
1:AA:597:G:C2'	1:AA:598:U:H5'	2.31	0.59
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.85	0.59
7:AG:138:LYS:O	7:AG:141:VAL:HB	2.03	0.59
8:AH:2:LEU:HD22	8:AH:5:PRO:HA	1.85	0.59
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.02	0.59
12:AL:84:LEU:O	12:AL:101:VAL:HG23	2.03	0.59
19:AS:40:ILE:HG21	19:AS:66:MET:O	2.02	0.59
24:AY:164:ILE:HD11	24:AY:251:ILE:O	2.01	0.59
24:AY:299:PHE:HE2	24:AY:319:ARG:CG	2.16	0.59
24:AY:359:ALA:CA	24:AY:363:ASP:OD2	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:69:LYS:O	26:B1:72:GLU:N	2.32	0.59
31:B6:27:LYS:O	31:B6:28:ARG:C	2.41	0.59
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.20	0.59
35:BA:1417:C:O2'	35:BA:1418:G:H5'	2.02	0.59
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.37	0.59
35:BA:783:A:C5	35:BA:785:G:C8	2.90	0.59
37:BC:171:ILE:HD13	37:BC:196:LEU:HD22	1.85	0.59
37:BC:22:ILE:O	37:BC:22:ILE:HG22	2.02	0.59
37:BC:53:ARG:NH1	37:BC:56:GLN:NE2	2.49	0.59
38:BD:11:PRO:O	38:BD:12:SER:OG	2.18	0.59
38:BD:124:PRO:HD2	38:BD:129:ASN:ND2	2.18	0.59
38:BD:91:ARG:C	38:BD:107:ALA:HB2	2.23	0.59
35:BA:601:C:H5'	40:BF:108:LYS:NZ	2.18	0.59
40:BF:195:ASP:O	40:BF:199:TRP:N	2.36	0.59
40:BF:3:GLU:HA	40:BF:24:LEU:CB	2.33	0.59
42:BH:71:LEU:HD22	42:BH:72:ILE:HD13	1.80	0.59
50:BS:97:ARG:HH22	50:BS:98:VAL:HA	1.58	0.59
51:BT:110:ILE:HG22	51:BT:111:ARG:N	2.16	0.59
52:BU:68:ALA:HB1	52:BU:106:PHE:HE2	1.67	0.59
52:BU:22:LYS:NZ	52:BU:29:SER:O	2.33	0.59
56:BY:101:LYS:CG	56:BY:102:CYS:N	2.65	0.59
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.38	0.59
1:AA:986:A:H2'	1:AA:987:G:O4'	2.03	0.59
5:AE:43:LEU:HD21	5:AE:132:ALA:CB	2.23	0.59
6:AF:18:GLN:HA	6:AF:21:LEU:HB2	1.85	0.59
6:AF:22:GLU:O	6:AF:25:ILE:HG22	2.02	0.59
7:AG:50:ILE:HD11	7:AG:121:ALA:HA	1.85	0.59
9:AI:33:PHE:O	9:AI:35:GLU:N	2.36	0.59
9:AI:85:LEU:C	9:AI:85:LEU:HD12	2.23	0.59
12:AL:93:LEU:O	12:AL:96:VAL:HG23	2.03	0.59
15:AO:68:ARG:HG3	15:AO:72:ARG:HE	1.68	0.59
16:AP:5:ARG:HE	16:AP:22:THR:HG21	1.67	0.59
19:AS:29:ARG:HB3	19:AS:48:THR:H	1.68	0.59
1:AA:1503:A:H2'	23:AX:12:A:N6	2.18	0.59
24:AY:336:THR:O	24:AY:337:ALA:HB3	2.03	0.59
24:AY:527:ARG:HH12	24:AY:529:HIS:HA	1.62	0.59
35:BA:1135:C:O2	35:BA:1135:C:H2'	2.01	0.59
35:BA:1210:A:H8	35:BA:1210:A:H5'	1.65	0.59
35:BA:1214:A:H5'	35:BA:1239:G:H4'	1.84	0.59
35:BA:2331:G:N2	35:BA:2385:C:C5	2.71	0.59
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.83	0.59
35:BA:2820:A:H62	39:BE:192:ASN:CB	2.08	0.59
35:BA:572:A:C2'	35:BA:573:G:O4'	2.50	0.59
36:BB:54:G:N2	36:BB:55:U:C2	2.70	0.59
37:BC:49:ILE:HG23	37:BC:208:PHE:CE1	2.37	0.59
38:BD:129:ASN:N	38:BD:193:VAL:CG1	2.66	0.59
38:BD:13:ARG:HA	38:BD:16:MET:SD	2.42	0.59
38:BD:143:HIS:O	38:BD:144:ALA:HB3	2.02	0.59
38:BD:208:LYS:HG3	38:BD:210:GLY:H	1.67	0.59
39:BE:48:GLN:CG	39:BE:78:LEU:HD13	2.33	0.59
42:BH:107:VAL:O	42:BH:152:ARG:NH1	2.36	0.59
43:BJ:24:UNK:HA	43:BJ:85:LEU:O	2.02	0.59
45:BN:46:VAL:O	45:BN:47:ALA:HB3	2.03	0.59
46:BO:13:ASN:C	46:BO:15:GLY:H	2.06	0.59
49:BR:87:TYR:CE2	49:BR:94:TYR:HB3	2.37	0.59
50:BS:51:ALA:HB2	50:BS:73:LEU:HB2	1.84	0.59
52:BU:112:ARG:HG3	52:BU:112:ARG:HH11	1.67	0.59
54:BW:64:MET:O	54:BW:65:LEU:O	2.20	0.59
57:BZ:19:ARG:C	57:BZ:21:ALA:H	2.05	0.59
57:BZ:24:LEU:HD21	57:BZ:86:VAL:HG21	1.83	0.59
1:AA:1201:A:H4'	1:AA:1202:G:C5'	2.32	0.59
1:AA:344:A:H5''	1:AA:345:C:H5	1.68	0.59
1:AA:34:C:H2'	1:AA:35:G:H8	1.68	0.59
1:AA:883:C:N3	1:AA:884:U:C4	2.70	0.59
2:AB:146:GLN:O	2:AB:148:TYR:N	2.36	0.59
3:AC:145:GLY:O	3:AC:146:ALA:HB3	2.01	0.59
8:AH:1:MET:HG2	8:AH:1:MET:O	2.01	0.59
14:AN:47:LEU:HD13	14:AN:52:GLN:CB	2.29	0.59
15:AO:68:ARG:CG	15:AO:72:ARG:NE	2.66	0.59
17:AQ:63:ARG:HG2	17:AQ:64:PRO:CD	2.33	0.59
17:AQ:7:THR:HA	17:AQ:58:GLU:HA	1.85	0.59
18:AR:34:TYR:CD1	18:AR:35:ARG:HG3	2.38	0.59
20:AT:10:LEU:HD12	20:AT:11:SER:H	1.67	0.59
24:AY:155:LEU:H	24:AY:155:LEU:CD1	2.14	0.59
24:AY:210:LEU:HD22	24:AY:210:LEU:N	2.18	0.59
24:AY:259:ALA:C	24:AY:261:GLY:H	2.06	0.59
24:AY:282:ARG:NE	24:AY:319:ARG:HH12	2.00	0.59
24:AY:518:TYR:N	24:AY:518:TYR:HD1	2.00	0.59
25:B0:52:GLY:HA3	25:B0:60:PHE:CZ	2.37	0.59
33:B8:8:LYS:HZ3	33:B8:11:LYS:HZ3	1.50	0.59
35:BA:443:A:C2	35:BA:1245:G:N3	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1496:A:C8	35:BA:1498:C:N4	2.71	0.59
35:BA:1670:C:O5'	35:BA:1670:C:H6	1.85	0.59
35:BA:1926:U:H3'	35:BA:1927:A:H5''	1.85	0.59
35:BA:961:C:N4	35:BA:2031:A:H1'	2.18	0.59
35:BA:2068:U:H3	35:BA:2430:A:H2	1.47	0.59
35:BA:2590:A:O2'	35:BA:2591:C:H5'	2.03	0.59
35:BA:2606:C:O2'	35:BA:2607:G:H5'	2.03	0.59
35:BA:23:G:H1	35:BA:517:C:H42	1.48	0.59
35:BA:588:U:H2'	35:BA:589:C:H6	1.68	0.59
35:BA:824:A:H2'	35:BA:825:C:C6	2.37	0.59
35:BA:7:G:O2'	35:BA:8:A:H5'	2.03	0.59
37:BC:161:ILE:HG21	37:BC:174:PRO:HG2	1.85	0.59
38:BD:11:PRO:O	38:BD:12:SER:CB	2.50	0.59
38:BD:21:PHE:O	38:BD:25:THR:OG1	2.21	0.59
39:BE:12:THR:HG23	39:BE:13:ARG:H	1.66	0.59
41:BG:6:ALA:O	41:BG:10:LYS:N	2.28	0.59
42:BH:22:GLY:C	42:BH:23:ARG:HD3	2.23	0.59
42:BH:67:LEU:O	42:BH:71:LEU:HB2	2.02	0.59
43:BJ:91:UNK:O	43:BJ:93:UNK:N	2.36	0.59
45:BN:62:VAL:HG11	45:BN:67:LEU:HD21	1.84	0.59
47:BP:70:GLN:HB3	47:BP:72:PRO:CD	2.32	0.59
48:BQ:31:ASP:HB3	48:BQ:32:TYR:CD1	2.38	0.59
49:BR:72:ASP:OD2	49:BR:75:LEU:HD23	2.03	0.59
1:AA:1124:G:C2	1:AA:1127:G:N2	2.71	0.59
1:AA:1494:G:C5	1:AA:1495:U:C4	2.90	0.59
1:AA:1392:G:N2	1:AA:1502:A:H8	2.00	0.59
1:AA:275:G:H2'	1:AA:276:G:C8	2.35	0.59
1:AA:355:C:N4	1:AA:356:A:N6	2.51	0.59
1:AA:826:C:C5	1:AA:827:U:H5	2.21	0.59
1:AA:862:C:O2'	1:AA:863:U:H5'	2.03	0.59
1:AA:874:G:C6	1:AA:875:C:C4	2.90	0.59
1:AA:914:A:H2'	1:AA:915:A:H8	1.67	0.59
2:AB:41:ILE:HG22	2:AB:42:ILE:O	2.03	0.59
2:AB:51:LEU:CD2	2:AB:55:PHE:HE2	2.12	0.59
3:AC:174:PRO:C	3:AC:176:HIS:N	2.56	0.59
7:AG:21:VAL:O	7:AG:23:VAL:N	2.35	0.59
8:AH:1:MET:HE3	8:AH:2:LEU:C	2.22	0.59
9:AI:20:ARG:O	9:AI:22:GLY:N	2.36	0.59
12:AL:7:ILE:CG1	12:AL:10:LEU:HD12	2.33	0.59
19:AS:49:ILE:O	19:AS:60:VAL:HG13	2.02	0.59
22:AV:26:G:C2'	22:AV:27:U:OP1	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:19:ILE:C	24:AY:126:LEU:HD13	2.23	0.59
24:AY:470:THR:CG2	24:AY:472:ARG:NH2	2.65	0.59
31:B6:25:LYS:NZ	35:BA:2285:C:H41	2.01	0.59
32:B7:11:LYS:HE3	35:BA:686:G:N2	2.18	0.59
33:B8:32:LEU:HB3	33:B8:36:LYS:HE2	1.85	0.59
35:BA:1133:U:O2'	35:BA:1137:G:OP1	2.17	0.59
35:BA:989:G:C5'	35:BA:1157:G:H4'	2.27	0.59
35:BA:1190:G:OP1	47:BP:32:THR:OG1	2.20	0.59
35:BA:145:G:H2'	35:BA:146:G:O4'	2.03	0.59
35:BA:1498:C:O2'	35:BA:1499:C:H5''	2.03	0.59
35:BA:2394:C:OP1	47:BP:63:PRO:HD2	2.03	0.59
35:BA:2581:G:C6	35:BA:2610:C:N3	2.71	0.59
35:BA:2656:U:H2'	35:BA:2657:A:H5''	1.83	0.59
35:BA:2716:U:H2'	35:BA:2717:G:H8	1.68	0.59
35:BA:2839:G:H2'	35:BA:2840:C:H6	1.67	0.59
35:BA:531:C:H5''	35:BA:532:A:C5	2.38	0.59
35:BA:603:A:C2	35:BA:604:G:H1'	2.38	0.59
25:B0:27:GLU:CD	35:BA:856:C:H1'	2.23	0.59
35:BA:9:U:HO2'	35:BA:10:G:H8	1.50	0.59
38:BD:10:THR:C	38:BD:11:PRO:O	2.41	0.59
38:BD:227:ASN:HB3	38:BD:229:VAL:HG12	1.85	0.59
39:BE:114:ALA:O	39:BE:119:ARG:HB2	2.03	0.59
35:BA:616:G:H5''	40:BF:103:LYS:HZ3	1.64	0.59
40:BF:154:VAL:CG2	40:BF:191:ARG:HB3	2.29	0.59
45:BN:46:VAL:CG1	45:BN:48:MET:HG3	2.33	0.59
47:BP:92:GLU:HA	47:BP:123:LEU:HD11	1.84	0.59
48:BQ:54:MET:C	48:BQ:56:ARG:N	2.56	0.59
53:BV:3:ALA:HB1	53:BV:14:VAL:HG22	1.84	0.59
53:BV:16:PRO:O	53:BV:96:ILE:O	2.21	0.59
57:BZ:120:ILE:HD13	57:BZ:120:ILE:N	2.18	0.59
57:BZ:54:HIS:HA	57:BZ:98:MET:HE3	1.84	0.59
1:AA:170:U:O2'	1:AA:171:A:H5'	2.03	0.58
2:AB:12:GLU:C	2:AB:14:GLY:H	2.06	0.58
2:AB:162:ILE:CG1	2:AB:163:PHE:N	2.65	0.58
3:AC:53:ALA:HB2	3:AC:114:PRO:HB2	1.84	0.58
4:AD:140:VAL:HG11	4:AD:146:ILE:HD11	1.84	0.58
1:AA:18:C:P	5:AE:14:ARG:HH12	2.26	0.58
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.18	0.58
10:AJ:61:GLU:OE2	14:AN:58:LYS:HD3	2.03	0.58
15:AO:62:GLN:HA	15:AO:65:ARG:CD	2.33	0.58
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:75:ALA:N	19:AS:76:PRO:CD	2.66	0.58
21:AU:13:ILE:O	21:AU:16:GLY:N	2.35	0.58
22:AV:8:U:H1'	22:AV:48:C:H1'	1.85	0.58
24:AY:106:VAL:CG2	24:AY:107:ASP:N	2.65	0.58
25:B0:25:ARG:HG2	25:B0:25:ARG:HH11	1.68	0.58
29:B4:8:LYS:O	29:B4:9:LEU:HB2	2.03	0.58
35:BA:1025:G:H1	35:BA:1140:C:N4	2.00	0.58
35:BA:1216:G:O2'	35:BA:1217:C:H5'	2.03	0.58
35:BA:811:U:O2	35:BA:1251:C:C5	2.56	0.58
35:BA:1439:A:H3'	35:BA:1440:G:H8	1.68	0.58
35:BA:1909:C:H42	35:BA:1921:G:H1	1.50	0.58
35:BA:2399:G:O6	35:BA:2417:C:N3	2.36	0.58
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.33	0.58
35:BA:317:G:N2	35:BA:318:C:H1'	2.18	0.58
35:BA:616:G:H5'	40:BF:103:LYS:HZ3	1.67	0.58
35:BA:670:A:H4'	35:BA:671:C:H5''	1.86	0.58
35:BA:729:G:C5	38:BD:208:LYS:HD2	2.38	0.58
35:BA:817:C:O2'	35:BA:839:U:H5''	2.02	0.58
38:BD:66:ASP:OD2	38:BD:103:ARG:CZ	2.51	0.58
39:BE:52:LEU:HD23	39:BE:75:VAL:CB	2.27	0.58
40:BF:89:VAL:HG12	40:BF:90:PHE:CD2	2.37	0.58
48:BQ:131:ILE:N	48:BQ:131:ILE:CD1	2.66	0.58
48:BQ:21:THR:HA	48:BQ:98:LYS:HB2	1.83	0.58
53:BV:29:PRO:O	53:BV:61:VAL:HG23	2.03	0.58
56:BY:79:CYS:O	56:BY:81:LYS:N	2.36	0.58
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.19	0.58
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.17	0.58
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.02	0.58
1:AA:18:C:H2'	1:AA:19:C:C6	2.38	0.58
1:AA:913:A:H4'	1:AA:914:A:C4'	2.33	0.58
2:AB:127:ILE:HD11	2:AB:139:LYS:HE3	1.85	0.58
2:AB:155:LEU:HD13	2:AB:157:ARG:O	2.03	0.58
2:AB:187:LEU:HD23	2:AB:201:ILE:O	2.02	0.58
2:AB:200:ILE:HG22	2:AB:202:PRO:CD	2.28	0.58
3:AC:21:ARG:O	3:AC:22:TRP:CD1	2.56	0.58
4:AD:91:SER:O	4:AD:94:LEU:HB2	2.03	0.58
5:AE:115:VAL:CG1	5:AE:116:THR:N	2.65	0.58
13:AM:103:THR:O	13:AM:105:THR:N	2.36	0.58
15:AO:65:ARG:NH1	15:AO:65:ARG:HG2	2.17	0.58
16:AP:3:LYS:HB3	16:AP:65:GLN:O	2.02	0.58
19:AS:55:LYS:HG2	19:AS:56:GLN:NE2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:39:C:H2'	22:AV:39:C:O2	2.03	0.58
22:AV:50:U:H2'	22:AV:51:C:C6	2.37	0.58
24:AY:138:LEU:HD22	24:AY:275:TRP:HZ3	1.67	0.58
24:AY:259:ALA:C	24:AY:261:GLY:N	2.57	0.58
24:AY:14:ARG:CG	24:AY:276:ALA:HB1	2.33	0.58
24:AY:443:VAL:CG2	24:AY:444:LEU:HD22	2.33	0.58
24:AY:508:MET:HA	24:AY:511:LEU:HB3	1.84	0.58
25:B0:40:GLN:OE1	25:B0:44:ARG:HB2	2.03	0.58
26:B1:53:VAL:O	26:B1:54:ALA:HB3	2.03	0.58
26:B1:48:LYS:CE	26:B1:59:THR:HB	2.33	0.58
35:BA:1287:A:C2'	35:BA:1288:U:H5'	2.33	0.58
35:BA:1341:U:OP1	35:BA:1397:U:N3	2.36	0.58
35:BA:1665:A:H8	35:BA:1665:A:O5'	1.85	0.58
35:BA:1887:C:C2'	35:BA:1888:G:H5''	2.33	0.58
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.69	0.58
35:BA:20:C:H2'	35:BA:21:A:C8	2.38	0.58
35:BA:2282:G:H5''	35:BA:2283:C:O4'	2.03	0.58
35:BA:2514:U:O4'	39:BE:151:TYR:HE2	1.87	0.58
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.84	0.58
35:BA:2787:C:O2	39:BE:61:ARG:HD3	2.03	0.58
37:BC:74:VAL:HG13	37:BC:112:ALA:CB	2.32	0.58
38:BD:147:LEU:CD2	38:BD:183:ARG:CZ	2.80	0.58
38:BD:6:PHE:CE2	38:BD:17:THR:HA	2.38	0.58
35:BA:2680:C:H5'	39:BE:189:PRO:HA	1.85	0.58
45:BN:112:LEU:O	45:BN:115:ARG:HB3	2.02	0.58
45:BN:90:MET:HE2	45:BN:94:HIS:HB2	1.85	0.58
46:BO:17:ARG:NH2	46:BO:99:PHE:CE2	2.71	0.58
49:BR:47:PHE:O	49:BR:49:ASP:N	2.36	0.58
49:BR:5:LYS:O	49:BR:6:SER:HB2	2.03	0.58
51:BT:65:LYS:HE3	51:BT:66:VAL:H	1.69	0.58
52:BU:109:LEU:O	52:BU:113:ALA:N	2.36	0.58
52:BU:57:PHE:O	52:BU:58:ARG:C	2.41	0.58
57:BZ:71:VAL:HG12	57:BZ:73:GLN:O	2.03	0.58
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.18	0.58
1:AA:622:A:H3'	1:AA:623:C:C6	2.38	0.58
1:AA:769:G:N2	1:AA:811:C:H1'	2.18	0.58
1:AA:945:G:H2'	1:AA:946:A:H5'	1.84	0.58
6:AF:80:ARG:HA	6:AF:85:VAL:HG11	1.85	0.58
8:AH:5:PRO:HD2	8:AH:6:ILE:HD12	1.85	0.58
12:AL:41:ARG:CZ	12:AL:41:ARG:CB	2.80	0.58
15:AO:70:LEU:O	15:AO:74:ASP:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:215:LEU:HD23	24:AY:216:ASP:H	1.68	0.58
24:AY:223:LEU:HA	24:AY:226:GLN:OE1	2.02	0.58
24:AY:446:PHE:HA	24:AY:449:VAL:HG22	1.85	0.58
27:B2:47:ASN:HA	27:B2:50:ILE:HD13	1.85	0.58
28:B3:45:GLY:C	28:B3:47:VAL:N	2.55	0.58
35:BA:1003:G:N2	35:BA:1004:C:O2	2.37	0.58
35:BA:1045:A:OP1	35:BA:1046:A:H3'	2.04	0.58
35:BA:1070:A:C6	35:BA:1097:U:H4'	2.37	0.58
35:BA:1218:C:C2'	35:BA:1219:G:H5'	2.33	0.58
35:BA:1304:C:H2'	35:BA:1305:C:H6	1.67	0.58
35:BA:1683:C:H6	35:BA:1683:C:O5'	1.86	0.58
35:BA:2277:G:C6	35:BA:2278:A:N7	2.71	0.58
35:BA:2579:C:O4'	39:BE:134:ILE:HG21	2.03	0.58
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.18	0.58
38:BD:226:MET:SD	38:BD:230:ASP:O	2.61	0.58
35:BA:1799:G:OP1	38:BD:260:ARG:NE	2.36	0.58
39:BE:38:THR:HB	39:BE:41:LYS:HG2	1.85	0.58
39:BE:52:LEU:CD2	39:BE:75:VAL:HB	2.26	0.58
39:BE:81:ILE:O	39:BE:82:ARG:O	2.20	0.58
40:BF:101:LEU:CD1	40:BF:102:PRO:HD2	2.20	0.58
40:BF:158:THR:C	40:BF:160:ASN:H	2.07	0.58
40:BF:178:PRO:C	40:BF:201:VAL:HG11	2.22	0.58
47:BP:114:ILE:CG2	47:BP:130:PHE:CD1	2.86	0.58
47:BP:71:VAL:H	47:BP:72:PRO:HD2	1.64	0.58
51:BT:121:ILE:O	51:BT:124:ASP:CB	2.48	0.58
52:BU:57:PHE:HD1	52:BU:60:LEU:HD12	1.68	0.58
57:BZ:48:PHE:O	57:BZ:50:GLN:N	2.36	0.58
57:BZ:48:PHE:O	57:BZ:52:SER:N	2.36	0.58
1:AA:840:C:H5'	1:AA:841:U:OP1	2.03	0.58
1:AA:914:A:O2'	1:AA:915:A:H5'	2.02	0.58
2:AB:92:TYR:CD1	2:AB:93:VAL:N	2.71	0.58
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.85	0.58
4:AD:30:LYS:C	4:AD:32:ALA:H	2.06	0.58
1:AA:878:G:P	8:AH:88:LYS:HD2	2.44	0.58
11:AK:28:THR:HG22	11:AK:29:ILE:N	2.17	0.58
11:AK:95:ILE:O	11:AK:98:LEU:HB2	2.04	0.58
12:AL:35:GLY:C	12:AL:58:VAL:HG13	2.23	0.58
12:AL:53:ARG:NH1	12:AL:53:ARG:HG2	2.17	0.58
12:AL:82:VAL:HG22	24:AY:406:PRO:HB3	1.84	0.58
27:B2:2:LYS:NZ	27:B2:5:GLU:CD	2.56	0.58
31:B6:19:ARG:HG3	31:B6:19:ARG:HH11	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1057:A:C2'	35:BA:1058:G:H5'	2.33	0.58
35:BA:1463:C:H2'	35:BA:1464:C:C6	2.38	0.58
35:BA:1691:C:H2'	35:BA:1692:U:C6	2.37	0.58
22:AV:72:A:O2'	35:BA:1852:C:H4'	2.02	0.58
35:BA:2243:U:O2	35:BA:2434:A:C2	2.56	0.58
35:BA:254:G:O2'	35:BA:384:U:H5'	2.03	0.58
35:BA:2576:G:OP1	35:BA:2577:A:OP1	2.21	0.58
35:BA:2868:A:H2'	35:BA:2869:G:H8	1.66	0.58
35:BA:30:G:O2'	35:BA:31:C:H5'	2.04	0.58
35:BA:85:G:OP1	56:BY:30:VAL:HB	2.02	0.58
35:BA:981:A:H8	35:BA:982:C:C5	2.22	0.58
36:BB:68:C:C2'	36:BB:69:G:H8	2.15	0.58
38:BD:36:PRO:O	38:BD:37:LEU:CB	2.48	0.58
39:BE:167:VAL:O	39:BE:167:VAL:HG13	2.03	0.58
40:BF:63:LYS:HZ1	40:BF:67:GLN:HA	1.69	0.58
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.21	0.58
41:BG:71:THR:HB	41:BG:89:GLY:CA	2.32	0.58
42:BH:109:PHE:CD2	42:BH:152:ARG:NH1	2.72	0.58
42:BH:65:HIS:CD2	42:BH:65:HIS:C	2.76	0.58
35:BA:1070:A:C6	44:BK:7:UNK:C	2.86	0.58
45:BN:76:SER:N	45:BN:81:GLY:O	2.35	0.58
45:BN:90:MET:CE	45:BN:90:MET:HA	2.33	0.58
45:BN:90:MET:HE3	45:BN:90:MET:HA	1.85	0.58
47:BP:94:GLU:HG3	47:BP:124:LYS:CB	2.34	0.58
50:BS:49:VAL:HG12	50:BS:50:SER:N	2.18	0.58
54:BW:6:ILE:HG23	54:BW:104:THR:HG22	1.86	0.58
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.68	0.58
1:AA:1266:G:N2	1:AA:1268:A:H3'	2.18	0.58
1:AA:67:C:H6	1:AA:67:C:H3'	1.68	0.58
1:AA:938:A:H2'	1:AA:939:G:O4'	2.04	0.58
1:AA:980:C:O2'	14:AN:19:ARG:HG2	2.04	0.58
2:AB:213:LEU:C	2:AB:213:LEU:HD23	2.24	0.58
3:AC:83:ARG:O	3:AC:87:LEU:HG	2.04	0.58
5:AE:72:GLN:O	5:AE:73:ASN:CB	2.49	0.58
9:AI:46:ALA:HB1	9:AI:77:ILE:CG2	2.33	0.58
13:AM:23:TYR:HB3	13:AM:67:GLU:CB	2.33	0.58
15:AO:60:VAL:O	15:AO:63:ARG:HB3	2.03	0.58
19:AS:9:VAL:CG1	19:AS:11:VAL:HG12	2.24	0.58
22:AV:34:C:H2'	22:AV:35:A:C8	2.37	0.58
24:AY:325:TYR:O	24:AY:358:GLU:HA	2.02	0.58
24:AY:470:THR:OG1	24:AY:471:ALA:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:59:GLU:O	30:B5:59:GLU:HG3	2.04	0.58
35:BA:143:G:H5''	35:BA:1598:C:O2'	2.03	0.58
35:BA:742:G:H4'	35:BA:1675:C:O2'	2.03	0.58
35:BA:1951:U:O2	35:BA:1954:G:H8	1.86	0.58
35:BA:2360:A:O2'	35:BA:2361:A:O4'	2.21	0.58
35:BA:2689:U:H5''	35:BA:2690:C:C5'	2.25	0.58
35:BA:2796:U:OP2	35:BA:2799:C:C5	2.56	0.58
35:BA:448:U:H5'	35:BA:449:A:C8	2.37	0.58
35:BA:627:A:H61	35:BA:636:G:H2'	1.67	0.58
35:BA:654(Q):C:O2'	35:BA:654(R):C:H5'	2.04	0.58
35:BA:568:U:C5'	35:BA:945:A:N6	2.67	0.58
38:BD:182:LEU:CA	38:BD:272:ALA:HB2	2.33	0.58
39:BE:4:ILE:HG22	39:BE:198:VAL:HB	1.85	0.58
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.02	0.58
52:BU:108:GLU:O	52:BU:109:LEU:C	2.41	0.58
52:BU:92:ARG:NH2	53:BV:10:LYS:HG2	2.19	0.58
53:BV:40:LEU:CD1	53:BV:46:VAL:H	2.16	0.58
56:BY:6:HIS:CD2	56:BY:6:HIS:H	2.21	0.58
57:BZ:72:ARG:O	57:BZ:73:GLN:HB3	2.02	0.58
1:AA:1014:A:H5'	19:AS:14:HIS:CD2	2.39	0.58
1:AA:18:C:H2'	1:AA:19:C:H6	1.69	0.58
1:AA:383:A:H2'	1:AA:384:G:H5'	1.83	0.58
1:AA:777:A:H2'	1:AA:778:G:H8	1.68	0.58
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.24	0.58
5:AE:115:VAL:HG13	5:AE:116:THR:N	2.18	0.58
5:AE:24:ARG:HD3	5:AE:26:PHE:CE2	2.39	0.58
7:AG:76:ARG:HG2	7:AG:76:ARG:HH11	1.69	0.58
15:AO:68:ARG:HG3	15:AO:72:ARG:CG	2.33	0.58
16:AP:40:ASP:OD1	16:AP:43:LYS:N	2.37	0.58
16:AP:61:SER:O	16:AP:62:VAL:HG13	2.03	0.58
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	1.86	0.58
24:AY:210:LEU:H	24:AY:210:LEU:HD22	1.67	0.58
24:AY:138:LEU:CD2	24:AY:275:TRP:CE3	2.84	0.58
24:AY:28:THR:O	24:AY:32:LYS:HG3	2.03	0.58
24:AY:446:PHE:O	24:AY:449:VAL:HG22	2.04	0.58
24:AY:518:TYR:N	24:AY:518:TYR:CD1	2.71	0.58
26:B1:90:ILE:O	26:B1:94:LEU:HD13	2.03	0.58
35:BA:1012:U:O5'	35:BA:1013:C:H5''	2.02	0.58
35:BA:154:G:H1	35:BA:172:C:H42	1.50	0.58
35:BA:1655:A:C2	35:BA:2049:G:H4'	2.39	0.58
35:BA:2115:G:C3'	35:BA:2116:G:H5''	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:225:A:C2'	35:BA:226:G:H5'	2.33	0.58
35:BA:2439:A:C5'	35:BA:2439:A:H8	2.16	0.58
36:BB:73:A:H2'	36:BB:74:U:O4'	2.04	0.58
37:BC:155:GLU:HG3	37:BC:160:ARG:HD3	1.84	0.58
35:BA:2177:C:HO2'	37:BC:168:THR:HG21	1.69	0.58
38:BD:90:ALA:HB3	38:BD:106:ILE:CG2	2.32	0.58
39:BE:200:GLU:H	39:BE:200:GLU:CD	2.06	0.58
40:BF:179:GLU:C	40:BF:181:LEU:H	2.05	0.58
41:BG:7:LEU:HD22	41:BG:176:LEU:HD21	1.84	0.58
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.68	0.58
42:BH:30:LYS:HB2	42:BH:79:VAL:O	2.03	0.58
45:BN:57:ALA:HB3	45:BN:124:ALA:HA	1.86	0.58
49:BR:117:VAL:HG22	49:BR:118:GLU:H	1.68	0.58
53:BV:6:LYS:O	53:BV:37:VAL:HG21	2.04	0.58
57:BZ:8:TYR:HB2	57:BZ:38:TYR:CZ	2.38	0.58
57:BZ:69:THR:C	57:BZ:70:LEU:HD22	2.23	0.58
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.38	0.58
1:AA:1327:C:H2'	1:AA:1328:C:C6	2.39	0.58
1:AA:415:A:H2'	1:AA:416:G:C8	2.38	0.58
1:AA:679:C:H2'	1:AA:680:C:C6	2.39	0.58
1:AA:951:G:O2'	1:AA:952:U:H5'	2.02	0.58
8:AH:85:ARG:NH1	8:AH:85:ARG:HG3	2.18	0.58
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.22	0.58
12:AL:36:VAL:CB	12:AL:82:VAL:HA	2.34	0.58
12:AL:82:VAL:O	12:AL:83:VAL:HG13	2.03	0.58
17:AQ:11:VAL:HG22	17:AQ:20:THR:O	2.03	0.58
20:AT:13:LEU:HD23	20:AT:13:LEU:H	1.68	0.58
26:B1:20:ARG:HB2	26:B1:33:LYS:O	2.03	0.58
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.04	0.58
35:BA:1238:G:N2	35:BA:1239:G:H1'	2.19	0.58
35:BA:1491:G:C6	35:BA:1500:G:C2	2.92	0.58
35:BA:1642:G:O2'	35:BA:1643:G:H5'	2.03	0.58
35:BA:182:A:H2'	35:BA:183:C:C6	2.39	0.58
35:BA:2443:C:H3'	35:BA:2443:C:H6	1.69	0.58
35:BA:2563:U:H1'	35:BA:2566:A:N6	2.19	0.58
35:BA:2680:C:OP2	39:BE:111:ARG:NH2	2.36	0.58
35:BA:2739:U:H5	35:BA:2763:G:C5	2.21	0.58
35:BA:406:G:H2'	35:BA:407:G:C8	2.39	0.58
35:BA:81:G:H3'	35:BA:82:G:H8	1.68	0.58
35:BA:913:U:HO2'	35:BA:915:C:H5	1.50	0.58
40:BF:165:ARG:HA	40:BF:168:ARG:NH2	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:154:VAL:HG12	40:BF:193:VAL:HG23	1.84	0.58
41:BG:25:TYR:CE2	41:BG:32:PRO:CD	2.86	0.58
42:BH:33:LEU:HD21	42:BH:136:ILE:CG2	2.32	0.58
42:BH:67:LEU:CD2	42:BH:71:LEU:HD12	2.34	0.58
46:BO:89:ASN:C	46:BO:91:LEU:N	2.55	0.58
49:BR:42:LYS:O	49:BR:45:ARG:HG2	2.03	0.58
51:BT:47:GLY:C	51:BT:48:ILE:HD12	2.24	0.58
52:BU:13:LYS:HD3	52:BU:13:LYS:N	2.17	0.58
53:BV:39:LEU:HB3	53:BV:47:VAL:CG2	2.27	0.58
57:BZ:110:GLY:O	57:BZ:115:GLY:HA2	2.04	0.58
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.37	0.58
1:AA:1513:A:O2'	1:AA:1514:C:H5'	2.03	0.58
1:AA:357:G:OP1	1:AA:367:U:H2'	2.04	0.58
1:AA:452:A:H62	1:AA:480:U:H3	1.51	0.58
2:AB:155:LEU:CD1	2:AB:157:ARG:O	2.51	0.58
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.86	0.58
6:AF:4:TYR:HD1	6:AF:92:LYS:HA	1.69	0.58
7:AG:42:ILE:HG22	7:AG:43:PHE:N	2.18	0.58
1:AA:586:C:O3'	8:AH:89:PRO:HB2	2.04	0.58
13:AM:120:LYS:HA	13:AM:120:LYS:HE3	1.84	0.58
24:AY:227:LEU:O	24:AY:231:LEU:HB3	2.04	0.58
24:AY:386:LYS:HD2	24:AY:386:LYS:C	2.24	0.58
35:BA:1228:G:N2	35:BA:1229:G:H1'	2.19	0.58
35:BA:1270:C:O4'	35:BA:1325:G:C6	2.56	0.58
35:BA:1556:C:O2'	35:BA:1557:C:H5'	2.04	0.58
35:BA:1859:A:N6	35:BA:1883:G:H1'	2.19	0.58
35:BA:201:C:H2'	35:BA:202:U:C5'	2.34	0.58
35:BA:2307:G:N2	35:BA:2308:G:H5''	2.18	0.58
35:BA:2394:C:OP1	47:BP:63:PRO:CG	2.51	0.58
35:BA:2459:A:N1	35:BA:2494:G:N3	2.51	0.58
35:BA:341:G:H2'	35:BA:342:G:O4'	2.03	0.58
35:BA:848:G:H8	35:BA:848:G:H5'	1.68	0.58
35:BA:931:G:N2	35:BA:933:A:N7	2.51	0.58
35:BA:977:G:C6	35:BA:987:G:C6	2.92	0.58
36:BB:47:C:H5'	36:BB:48:A:OP2	2.04	0.58
40:BF:20:LEU:O	40:BF:24:LEU:HD23	2.03	0.58
42:BH:83:TYR:CB	42:BH:135:GLY:H	2.16	0.58
45:BN:2:LYS:NZ	52:BU:95:LEU:CD2	2.65	0.58
47:BP:112:LEU:HD22	47:BP:113:LYS:H	1.67	0.58
47:BP:113:LYS:CE	47:BP:131:SER:HB3	2.33	0.58
35:BA:2406:U:N3	47:BP:72:PRO:HB2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:7:ARG:HB3	47:BP:8:PRO:CD	2.33	0.58
48:BQ:125:LEU:HD22	48:BQ:125:LEU:N	2.17	0.58
35:BA:1651:G:H5'	49:BR:39:PRO:HG2	1.86	0.58
51:BT:64:ARG:NH1	51:BT:103:ARG:HA	2.19	0.58
53:BV:33:VAL:O	53:BV:58:VAL:HG13	2.04	0.58
53:BV:96:ILE:H	53:BV:96:ILE:CD1	1.92	0.58
54:BW:36:LEU:HD12	54:BW:48:ALA:HB2	1.86	0.58
57:BZ:123:ASP:O	57:BZ:124:ILE:HG12	2.03	0.58
57:BZ:151:HIS:CG	57:BZ:170:THR:HA	2.38	0.58
48:BQ:141:GLN:OXT	57:BZ:53:ILE:HB	2.04	0.58
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.04	0.58
1:AA:1152:A:C6	1:AA:1153:C:N4	2.72	0.58
1:AA:114:U:H2'	1:AA:115:G:C8	2.38	0.58
1:AA:702:A:H61	35:BA:1846:G:C5'	2.14	0.58
1:AA:80:G:H5''	1:AA:81:U:C5	2.38	0.58
1:AA:833:U:C2	1:AA:834:C:C5	2.91	0.58
1:AA:8:A:C5	4:AD:209:ARG:HB3	2.39	0.58
2:AB:8:LYS:HE2	2:AB:217:ARG:NH2	2.19	0.58
2:AB:95:GLN:O	2:AB:96:ARG:HD2	2.04	0.58
3:AC:174:PRO:C	3:AC:176:HIS:H	2.08	0.58
5:AE:50:GLU:HG3	5:AE:52:PRO:CD	2.12	0.58
10:AJ:40:LEU:HB3	10:AJ:41:PRO:HD2	1.85	0.58
10:AJ:5:ARG:HG2	10:AJ:71:LEU:CD1	2.30	0.58
17:AQ:52:LYS:O	17:AQ:55:ASP:OD2	2.22	0.58
20:AT:39:LYS:O	20:AT:43:LEU:HG	2.04	0.58
22:AV:14:A:C2	22:AV:15:G:H1'	2.39	0.58
22:AV:15:G:O6	22:AV:48:C:O2	2.22	0.58
24:AY:284:THR:HG23	24:AY:385:MET:HE1	1.86	0.58
33:B8:50:LEU:O	33:B8:51:ALA:HB2	2.03	0.58
34:B9:16:VAL:HG11	35:BA:1032:A:O3'	2.04	0.58
35:BA:1202:C:H2'	35:BA:1203:G:H5'	1.86	0.58
35:BA:1328:G:H2'	35:BA:1330:C:C5	2.39	0.58
35:BA:1697:G:H5''	35:BA:1979:C:OP1	2.04	0.58
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.39	0.58
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.68	0.58
35:BA:2046:G:H2'	35:BA:2047:U:C6	2.38	0.58
35:BA:2091:U:H3	35:BA:2228:G:H1	1.52	0.58
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.85	0.58
35:BA:2389:G:H5''	35:BA:2390:U:C4'	2.34	0.58
35:BA:2619:C:H5'	39:BE:150:VAL:O	2.04	0.58
35:BA:335:C:OP1	35:BA:335:C:H6	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:9:U:O2'	35:BA:10:G:H8	1.87	0.58
36:BB:57:A:H2	36:BB:58:A:C4	2.22	0.58
37:BC:37:PHE:HZ	37:BC:217:THR:HG21	1.68	0.58
38:BD:53:PHE:C	38:BD:218:ARG:HB2	2.24	0.58
40:BF:5:ALA:HB2	40:BF:24:LEU:CD1	2.28	0.58
41:BG:76:SER:HA	41:BG:83:ARG:HA	1.85	0.58
44:BK:86:UNK:O	44:BK:87:UNK:CB	2.51	0.58
45:BN:18:ALA:HB3	45:BN:26:LEU:CD2	2.34	0.58
45:BN:27:ALA:O	45:BN:30:ILE:N	2.36	0.58
33:B8:12:LYS:CD	47:BP:68:GLN:HG3	2.32	0.58
35:BA:2722:G:O2'	49:BR:5:LYS:CB	2.52	0.58
50:BS:29:PHE:HE1	50:BS:31:SER:CB	2.04	0.58
46:BO:120:GLU:HB2	51:BT:68:TYR:HE2	1.68	0.58
46:BO:76:ALA:HB3	51:BT:75:ILE:HD13	1.85	0.58
57:BZ:63:ASP:HB3	57:BZ:65:GLN:HE21	1.68	0.58
1:AA:1206:G:H4'	3:AC:192:THR:O	2.03	0.58
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.86	0.58
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	2.03	0.58
1:AA:1300:G:C5	1:AA:1334:G:N7	2.71	0.58
1:AA:974:A:OP1	1:AA:974:A:C8	2.56	0.58
2:AB:157:ARG:NH1	2:AB:157:ARG:CB	2.67	0.58
3:AC:206:GLU:O	3:AC:207:VAL:O	2.22	0.58
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.69	0.58
6:AF:22:GLU:OE1	6:AF:22:GLU:HA	2.03	0.58
1:AA:1372:U:H5''	9:AI:71:SER:HB2	1.84	0.58
10:AJ:24:VAL:O	10:AJ:28:ARG:HG3	2.04	0.58
1:AA:750:G:O2'	15:AO:21:ASP:HB2	2.04	0.58
15:AO:24:SER:OG	15:AO:27:VAL:HG23	2.04	0.58
1:AA:279:A:H2'	17:AQ:95:TYR:CE1	2.39	0.58
20:AT:48:LYS:O	20:AT:52:ALA:CB	2.52	0.58
24:AY:452:ARG:C	24:AY:454:LYS:H	2.06	0.58
27:B2:19:VAL:CG1	27:B2:23:LYS:HE3	2.33	0.58
31:B6:11:LEU:HD21	31:B6:51:GLU:CG	2.32	0.58
35:BA:1794:U:H2'	35:BA:1795:C:H6	1.68	0.58
35:BA:1817:G:H2'	35:BA:1818:U:H5'	1.85	0.58
35:BA:1826:G:OP1	38:BD:224:ALA:HB2	2.04	0.58
35:BA:1976:U:O2'	35:BA:1977:A:C8	2.56	0.58
35:BA:2235:G:H2'	35:BA:2236:C:H6	1.69	0.58
35:BA:2304:G:C2	35:BA:2313:C:N3	2.71	0.58
35:BA:2580:U:C5	35:BA:2581:G:C5	2.92	0.58
35:BA:2839:G:H4'	49:BR:49:ASP:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:628:G:H2'	35:BA:629:G:H8	1.69	0.58
35:BA:761:A:H8	35:BA:761:A:O5'	1.86	0.58
35:BA:878:A:C2	35:BA:879:G:C8	2.91	0.58
35:BA:886:C:C4	35:BA:887:A:N7	2.72	0.58
38:BD:147:LEU:C	38:BD:189:CYS:SG	2.82	0.58
38:BD:226:MET:SD	38:BD:230:ASP:HB3	2.44	0.58
40:BF:24:LEU:O	40:BF:26:ALA:N	2.36	0.58
40:BF:64:ILE:HG23	40:BF:65:TRP:N	2.18	0.58
35:BA:2744:G:H21	42:BH:143:GLN:NE2	2.02	0.58
45:BN:121:LYS:O	45:BN:122:VAL:HG23	2.04	0.58
47:BP:68:GLN:N	47:BP:68:GLN:OE1	2.37	0.58
48:BQ:18:LYS:HG2	48:BQ:19:GLY:N	2.17	0.58
53:BV:57:VAL:HG22	53:BV:58:VAL:O	2.04	0.58
57:BZ:151:HIS:HA	57:BZ:171:ILE:HG23	1.85	0.58
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.39	0.57
1:AA:1312:G:H2'	1:AA:1313:U:H6	1.69	0.57
1:AA:1395:C:C4'	1:AA:1401:G:H21	2.17	0.57
2:AB:162:ILE:HG23	2:AB:184:VAL:HA	1.84	0.57
3:AC:136:GLN:O	3:AC:140:ARG:NH1	2.37	0.57
3:AC:172:ARG:NH2	3:AC:206:GLU:OE1	2.37	0.57
13:AM:18:ALA:O	13:AM:21:TYR:HB2	2.04	0.57
1:AA:580:U:H4'	15:AO:58:MET:HG3	1.85	0.57
18:AR:41:LYS:C	18:AR:43:PHE:H	2.08	0.57
18:AR:76:LEU:C	18:AR:78:LEU:H	2.06	0.57
19:AS:43:GLU:C	19:AS:45:VAL:N	2.57	0.57
24:AY:114:ASP:OD2	24:AY:143:LYS:HG3	2.04	0.57
24:AY:222:ASP:C	24:AY:226:GLN:HB2	2.22	0.57
24:AY:309:PRO:HG2	24:AY:311:HIS:O	2.04	0.57
24:AY:76:GLN:HG3	24:AY:85:ASN:ND2	2.19	0.57
24:AY:86:LEU:HD12	24:AY:87:LEU:N	2.19	0.57
28:B3:17:LYS:HG2	35:BA:969:U:OP1	2.04	0.57
29:B4:14:ILE:HG13	29:B4:31:ILE:CG2	2.34	0.57
35:BA:150:C:O2'	35:BA:151:C:H5'	2.03	0.57
35:BA:152:G:H2'	35:BA:153:C:C6	2.39	0.57
35:BA:2307:G:N2	35:BA:2308:G:C5'	2.67	0.57
35:BA:2582:G:OP2	35:BA:2583:G:OP2	2.21	0.57
35:BA:2830:G:OP1	39:BE:75:VAL:HG13	2.04	0.57
35:BA:2837:G:O5'	35:BA:2837:G:H8	1.87	0.57
35:BA:471:A:C2'	35:BA:472:A:H5''	2.31	0.57
35:BA:68:G:C2	35:BA:69:C:C2	2.91	0.57
35:BA:751:A:C6	35:BA:789:A:C5	2.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:74:VAL:HA	37:BC:112:ALA:HB3	1.85	0.57
35:BA:2222:G:O4'	38:BD:149:PRO:HG3	2.04	0.57
38:BD:80:ALA:CB	38:BD:94:LEU:CD1	2.82	0.57
40:BF:110:LEU:HD22	40:BF:183:VAL:HG13	1.85	0.57
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.16	0.57
40:BF:126:VAL:CG1	40:BF:142:TRP:HH2	2.00	0.57
40:BF:7:TYR:CD2	40:BF:16:GLY:CA	2.87	0.57
41:BG:107:LEU:HD11	41:BG:178:PHE:HE1	1.69	0.57
41:BG:36:LYS:HE2	41:BG:38:VAL:CG2	2.34	0.57
42:BH:103:LEU:O	42:BH:105:LEU:HD22	2.04	0.57
42:BH:27:LYS:HG2	42:BH:32:GLU:CG	2.31	0.57
42:BH:66:GLY:O	42:BH:69:ARG:HB2	2.04	0.57
35:BA:1070:A:N6	44:BK:8:UNK:HA	2.18	0.57
47:BP:100:LEU:H	47:BP:100:LEU:HD22	1.69	0.57
35:BA:625:G:O6	47:BP:107:LYS:HD2	2.04	0.57
47:BP:125:VAL:O	47:BP:125:VAL:HG13	2.04	0.57
49:BR:104:ARG:HD3	49:BR:107:ASP:OD1	2.04	0.57
49:BR:33:ARG:O	49:BR:34:ILE:HD13	2.04	0.57
50:BS:101:LEU:O	50:BS:101:LEU:HG	2.03	0.57
51:BT:10:VAL:O	51:BT:13:ARG:HG2	2.03	0.57
52:BU:66:ASN:ND2	52:BU:70:ARG:HG3	2.19	0.57
52:BU:69:CYS:HB2	52:BU:74:LEU:HD12	1.85	0.57
52:BU:99:ALA:HB2	52:BU:106:PHE:CZ	2.38	0.57
1:AA:559:A:H4'	1:AA:560:U:H5''	1.86	0.57
2:AB:201:ILE:O	2:AB:202:PRO:O	2.21	0.57
2:AB:233:SER:O	2:AB:234:PRO:C	2.41	0.57
6:AF:25:ILE:HG23	6:AF:26:ILE:N	2.18	0.57
6:AF:46:ARG:HB2	6:AF:60:PHE:HE1	1.69	0.57
16:AP:7:ALA:HA	16:AP:28:ARG:HG3	1.86	0.57
24:AY:189:GLU:HA	24:AY:208:LYS:HA	1.86	0.57
24:AY:412:LEU:O	24:AY:414:LYS:N	2.37	0.57
24:AY:526:THR:OG1	24:AY:527:ARG:N	2.37	0.57
24:AY:78:PRO:CA	24:AY:83:LEU:HA	2.34	0.57
35:BA:1495:A:H3'	35:BA:1496:A:H2	1.67	0.57
35:BA:1519:G:H5'	35:BA:1520:G:P	2.43	0.57
35:BA:1818:U:O2'	38:BD:155:LEU:HA	2.04	0.57
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
35:BA:2095:C:H2'	35:BA:2096:U:C6	2.39	0.57
35:BA:2152:G:C2'	35:BA:2153:G:H5'	2.35	0.57
35:BA:2290:G:O2'	35:BA:2291:U:H5'	2.04	0.57
35:BA:2393:A:C4	35:BA:2394:C:C5	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2514:U:H2'	35:BA:2515:C:O4'	2.03	0.57
35:BA:252:G:O2'	35:BA:253:C:H5'	2.04	0.57
35:BA:2724:C:H2'	35:BA:2725:A:C8	2.39	0.57
35:BA:2792:G:O2'	35:BA:2793:G:H5'	2.03	0.57
35:BA:456:C:O2'	55:BX:68:ARG:NH1	2.37	0.57
35:BA:578:A:OP1	35:BA:1255:U:O2'	2.20	0.57
35:BA:852:G:C5	35:BA:926:A:C2	2.92	0.57
37:BC:103:ILE:HG22	37:BC:103:ILE:O	2.04	0.57
38:BD:108:PRO:CB	38:BD:143:HIS:CE1	2.82	0.57
38:BD:43:ARG:HH11	38:BD:49:ILE:CD1	2.16	0.57
38:BD:70:TRP:CD1	38:BD:70:TRP:C	2.76	0.57
35:BA:2821:A:P	39:BE:110:GLY:H	2.24	0.57
39:BE:4:ILE:CG2	39:BE:96:PHE:HE2	2.14	0.57
40:BF:10:PRO:HD2	40:BF:13:SER:O	2.04	0.57
41:BG:178:PHE:HB3	41:BG:180:PHE:CE1	2.38	0.57
41:BG:52:ILE:H	41:BG:52:ILE:CD1	2.08	0.57
41:BG:64:THR:CG2	41:BG:65:GLY:H	2.16	0.57
42:BH:122:THR:C	42:BH:123:PHE:CD1	2.77	0.57
48:BQ:12:GLN:CG	48:BQ:73:PRO:HD2	2.29	0.57
52:BU:13:LYS:H	52:BU:13:LYS:CD	2.16	0.57
1:AA:471:G:H8	1:AA:471:G:O5'	1.86	0.57
1:AA:517:G:H4'	1:AA:519:C:C5	2.39	0.57
1:AA:774:G:N2	1:AA:775:G:H1'	2.18	0.57
3:AC:131:ARG:HH11	3:AC:166:GLU:CD	2.07	0.57
5:AE:64:ARG:O	5:AE:65:ASN:HB2	2.04	0.57
8:AH:14:ARG:NE	8:AH:83:ILE:CG2	2.67	0.57
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.38	0.57
24:AY:138:LEU:HD23	24:AY:253:PRO:HG2	1.83	0.57
24:AY:264:GLY:HA2	24:AY:267:HIS:CE1	2.39	0.57
24:AY:74:VAL:HG11	24:AY:317:PHE:HE2	1.68	0.57
25:B0:43:THR:CG2	25:B0:43:THR:O	2.53	0.57
25:B0:53:MET:HA	25:B0:58:THR:O	2.04	0.57
27:B2:25:VAL:CG2	27:B2:60:LEU:HB3	2.35	0.57
31:B6:35:GLU:HB3	31:B6:51:GLU:HB2	1.87	0.57
35:BA:154:G:H2'	35:BA:154(A):C:H6	1.68	0.57
35:BA:1894:C:C2'	35:BA:1895:C:H5''	2.34	0.57
35:BA:2072:G:H8	35:BA:2072:G:O5'	1.87	0.57
35:BA:2281:C:H4'	35:BA:2389:G:H21	1.69	0.57
35:BA:2703:C:O2	35:BA:2703:C:H2'	2.03	0.57
35:BA:2758:A:O2'	35:BA:2759:G:O4'	2.22	0.57
35:BA:527:C:O5'	35:BA:2779:U:C5	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2818:G:H4'	35:BA:2837:G:O4'	2.04	0.57
35:BA:332:A:O2'	35:BA:333:G:O5'	2.23	0.57
35:BA:650:C:H5'	35:BA:651:G:OP2	2.04	0.57
35:BA:884:C:C2'	35:BA:885:C:H5''	2.33	0.57
35:BA:994:C:OP2	52:BU:54:LYS:NZ	2.36	0.57
37:BC:117:PRO:HG3	37:BC:145:VAL:HG12	1.85	0.57
38:BD:134:ARG:HG2	38:BD:135:PHE:N	2.19	0.57
38:BD:206:LEU:HB2	38:BD:211:ARG:HG2	1.85	0.57
39:BE:9:VAL:HG13	39:BE:10:GLY:N	2.19	0.57
39:BE:119:ARG:HD3	39:BE:120:TRP:NE1	2.19	0.57
40:BF:132:VAL:HG22	40:BF:133:ASN:HD22	1.70	0.57
40:BF:183:VAL:O	40:BF:187:VAL:HG23	2.04	0.57
42:BH:107:VAL:HG21	42:BH:152:ARG:HG2	1.85	0.57
42:BH:20:ALA:HB3	42:BH:23:ARG:O	2.04	0.57
42:BH:54:ARG:HD3	42:BH:57:ASP:OD2	2.05	0.57
45:BN:56:ASN:N	45:BN:125:GLY:H	2.01	0.57
46:BO:19:ILE:CG2	46:BO:43:VAL:HA	2.25	0.57
35:BA:943:U:OP2	47:BP:38:GLN:HB3	2.04	0.57
51:BT:51:ARG:O	51:BT:61:PHE:HA	2.04	0.57
52:BU:112:ARG:NH1	52:BU:112:ARG:HG3	2.19	0.57
52:BU:35:ALA:O	52:BU:38:THR:N	2.38	0.57
55:BX:55:ASN:HB2	55:BX:80:ILE:CD1	2.34	0.57
1:AA:1310:G:H2'	1:AA:1311:G:H8	1.66	0.57
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.84	0.57
1:AA:1444:C:O5'	1:AA:1444:C:H6	1.88	0.57
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.86	0.57
1:AA:538:G:H2'	1:AA:539:A:H8	1.69	0.57
1:AA:855:G:O2'	1:AA:856:C:H5'	2.05	0.57
3:AC:142:MET:HA	3:AC:145:GLY:O	2.03	0.57
11:AK:122:LYS:O	11:AK:126:ARG:HB2	2.04	0.57
11:AK:92:GLU:OE2	11:AK:95:ILE:HD12	2.05	0.57
1:AA:954:G:H4'	13:AM:120:LYS:CD	2.34	0.57
15:AO:23:GLY:O	15:AO:27:VAL:HG21	2.05	0.57
20:AT:10:LEU:C	20:AT:12:ALA:H	2.07	0.57
21:AU:18:TYR:N	21:AU:18:TYR:CD1	2.71	0.57
22:AV:27:U:C2'	22:AV:28:C:H5'	2.33	0.57
24:AY:113:ILE:CG2	24:AY:118:GLY:HA2	2.34	0.57
26:B1:50:ARG:HD3	26:B1:57:GLU:OE2	2.04	0.57
30:B5:41:PRO:HD3	54:BW:38:TYR:CZ	2.39	0.57
35:BA:145:G:H2'	35:BA:146:G:H5''	1.85	0.57
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1663:C:O2'	35:BA:1664:A:H8	1.87	0.57
35:BA:1666:G:C8	35:BA:1667:G:N7	2.72	0.57
35:BA:1712:C:H2'	35:BA:1713:U:H5'	1.87	0.57
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.86	0.57
35:BA:2051:A:H5''	35:BA:2578:G:O5'	2.04	0.57
35:BA:571:A:H1'	35:BA:573:G:C8	2.39	0.57
35:BA:56:A:H2'	35:BA:57:C:C6	2.38	0.57
35:BA:915:C:N4	35:BA:916:G:C6	2.72	0.57
38:BD:17:THR:N	38:BD:205:VAL:O	2.37	0.57
39:BE:116:VAL:O	39:BE:117:MET:CB	2.51	0.57
41:BG:56:ALA:HA	41:BG:153:ARG:NH2	2.15	0.57
55:BX:12:VAL:HG12	55:BX:27:THR:O	2.04	0.57
35:BA:1335:U:OP1	55:BX:65:ARG:NH2	2.37	0.57
1:AA:1405:G:H1'	1:AA:1519:A:H4'	1.87	0.57
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.85	0.57
1:AA:236:G:OP1	17:AQ:42:TYR:HE1	1.87	0.57
1:AA:357:G:H2'	1:AA:358:U:C6	2.38	0.57
2:AB:196:LEU:HD12	2:AB:197:VAL:CG2	2.33	0.57
5:AE:84:PHE:CD1	5:AE:133:TYR:HB3	2.40	0.57
5:AE:31:LEU:CD2	5:AE:43:LEU:HD11	2.34	0.57
1:AA:737:A:H1'	6:AF:73:ASN:OD1	2.04	0.57
15:AO:54:ARG:HG3	15:AO:58:MET:HE2	1.83	0.57
15:AO:9:GLN:O	15:AO:13:GLN:HG2	2.03	0.57
18:AR:61:LYS:O	18:AR:62:GLU:C	2.41	0.57
22:AV:57:A:O2'	22:AV:58:A:C5'	2.53	0.57
24:AY:94:ASP:OD1	24:AY:442:GLY:O	2.23	0.57
30:B5:19:ARG:C	30:B5:21:SER:N	2.53	0.57
31:B6:7:ILE:HB	31:B6:27:LYS:HZ2	1.70	0.57
32:B7:34:ARG:NH2	35:BA:467:G:N7	2.51	0.57
32:B7:46:VAL:CG1	32:B7:47:ARG:H	2.12	0.57
35:BA:1296:G:H2'	35:BA:1297:C:C6	2.39	0.57
35:BA:1351:C:H4'	35:BA:1572:A:O4'	2.05	0.57
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.40	0.57
35:BA:2267:A:H5''	35:BA:2268:A:H5''	1.86	0.57
35:BA:2709:G:O2'	35:BA:2710:C:H5'	2.03	0.57
35:BA:390:A:H5'	35:BA:412:A:O4'	2.04	0.57
35:BA:44:G:H2'	35:BA:215:G:N7	2.20	0.57
35:BA:48:G:H4'	35:BA:52:A:O4'	2.05	0.57
35:BA:586:A:C5'	40:BF:89:VAL:HG11	2.34	0.57
35:BA:591:C:H2'	35:BA:592:G:H8	1.68	0.57
35:BA:66:C:C4	35:BA:67:U:C5	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:54:LYS:HG2	35:BA:73:A:OP1	2.05	0.57
35:BA:981:A:C8	35:BA:982:C:C5	2.92	0.57
36:BB:66:A:N6	36:BB:108:U:C5	2.72	0.57
37:BC:161:ILE:HG21	37:BC:174:PRO:CG	2.35	0.57
38:BD:242:ARG:HG2	38:BD:246:PRO:HG3	1.85	0.57
38:BD:44:ASN:HD22	38:BD:47:GLY:C	2.07	0.57
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.69	0.57
40:BF:122:LYS:CB	40:BF:191:ARG:HG3	2.35	0.57
41:BG:151:ALA:HB3	41:BG:153:ARG:NH1	2.19	0.57
41:BG:36:LYS:HE2	41:BG:38:VAL:HG22	1.86	0.57
45:BN:74:ARG:NH2	45:BN:85:ILE:HD11	2.20	0.57
47:BP:83:VAL:O	47:BP:114:ILE:HD12	2.04	0.57
48:BQ:133:ARG:CB	48:BQ:133:ARG:NH1	2.66	0.57
52:BU:28:ARG:HD3	52:BU:38:THR:OG1	2.03	0.57
52:BU:92:ARG:O	52:BU:94:ASN:N	2.38	0.57
55:BX:8:ILE:H	55:BX:8:ILE:CD1	2.14	0.57
57:BZ:119:GLU:O	57:BZ:119:GLU:HG2	2.04	0.57
57:BZ:8:TYR:HB2	57:BZ:38:TYR:CE2	2.40	0.57
1:AA:1256:A:O4'	1:AA:1256:A:OP2	2.23	0.57
1:AA:47:C:C6	1:AA:365:U:H2'	2.39	0.57
1:AA:398:C:C3'	1:AA:398:C:C6	2.86	0.57
1:AA:415:A:H2'	1:AA:416:G:H8	1.69	0.57
1:AA:67:C:C6	1:AA:67:C:H3'	2.40	0.57
1:AA:837:G:C2	1:AA:850:U:O2	2.57	0.57
1:AA:880:C:O2'	1:AA:881:G:H5'	2.05	0.57
2:AB:157:ARG:NH1	2:AB:157:ARG:HB3	2.19	0.57
3:AC:121:ALA:HB2	3:AC:187:ALA:HB1	1.85	0.57
3:AC:96:GLY:O	3:AC:97:LYS:HG2	2.04	0.57
4:AD:5:ILE:H	4:AD:115:ARG:HH12	1.52	0.57
4:AD:170:VAL:HG21	4:AD:176:LEU:HB2	1.87	0.57
5:AE:34:VAL:O	5:AE:41:VAL:HA	2.04	0.57
5:AE:80:ILE:HG13	5:AE:81:GLU:N	2.20	0.57
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.20	0.57
12:AL:27:LEU:O	12:AL:28:LYS:C	2.43	0.57
12:AL:41:ARG:HG2	12:AL:42:THR:O	2.03	0.57
12:AL:69:TYR:CE1	12:AL:71:PRO:HA	2.38	0.57
12:AL:88:GLY:H	12:AL:98:TYR:HA	1.68	0.57
18:AR:34:TYR:HD1	18:AR:35:ARG:HG3	1.68	0.57
20:AT:72:LEU:HD21	20:AT:80:ARG:HH21	1.69	0.57
24:AY:246:PHE:CD2	24:AY:247:LEU:HD23	2.39	0.57
24:AY:327:LYS:HZ1	24:AY:344:ASP:HB3	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:487:ARG:C	24:AY:489:ASN:H	2.08	0.57
27:B2:24:LEU:HD22	27:B2:60:LEU:CD2	2.35	0.57
33:B8:13:ARG:HH11	47:BP:61:ARG:CD	2.15	0.57
35:BA:1309:G:O2'	35:BA:1310:G:H5'	2.04	0.57
35:BA:1666:G:H5'	35:BA:1666:G:H8	1.69	0.57
35:BA:1666:G:H3'	35:BA:1667:G:H8	1.69	0.57
35:BA:1789:A:H5''	38:BD:221:VAL:CA	2.32	0.57
35:BA:1834:U:H4'	35:BA:1969:A:C6	2.39	0.57
35:BA:2281:C:H4'	35:BA:2389:G:N2	2.19	0.57
35:BA:2444:G:OP2	40:BF:68:LYS:NZ	2.29	0.57
35:BA:271(I):G:H2'	35:BA:271(J):C:H6	1.68	0.57
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.39	0.57
35:BA:603:A:O3'	47:BP:90:ARG:NH2	2.37	0.57
33:B8:17:THR:HG21	35:BA:650:C:O3'	2.04	0.57
35:BA:845:G:O2'	35:BA:846:C:H5	1.87	0.57
36:BB:53:A:C5	36:BB:54:G:N7	2.73	0.57
37:BC:66:HIS:CG	37:BC:184:LYS:HD2	2.39	0.57
38:BD:242:ARG:CD	38:BD:242:ARG:N	2.68	0.57
39:BE:63:LEU:O	39:BE:65:GLY:N	2.37	0.57
40:BF:33:LEU:HD11	40:BF:109:GLY:O	2.05	0.57
41:BG:140:ILE:CD1	41:BG:140:ILE:C	2.73	0.57
41:BG:39:ILE:HG13	41:BG:156:ASP:O	2.04	0.57
42:BH:12:PRO:CG	42:BH:15:VAL:HG13	2.34	0.57
42:BH:37:VAL:HG22	42:BH:72:ILE:HD13	1.85	0.57
45:BN:27:ALA:HA	45:BN:30:ILE:HB	1.87	0.57
45:BN:97:ARG:O	45:BN:99:LEU:N	2.37	0.57
46:BO:60:ALA:CB	46:BO:85:VAL:O	2.51	0.57
47:BP:6:LEU:HG	47:BP:9:ASN:CB	2.34	0.57
48:BQ:133:ARG:CG	48:BQ:134:ARG:N	2.61	0.57
51:BT:54:ARG:HA	51:BT:59:THR:CG2	2.34	0.57
30:B5:39:MET:O	54:BW:38:TYR:HE2	1.88	0.57
56:BY:45:VAL:HA	56:BY:62:GLU:HB2	1.85	0.57
57:BZ:41:LEU:HD11	57:BZ:82:ARG:NH2	2.19	0.57
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.70	0.57
1:AA:357:G:H2'	1:AA:358:U:H6	1.69	0.57
1:AA:1113:C:C6	3:AC:178:LEU:HD23	2.40	0.57
4:AD:9:CYS:HB3	4:AD:32:ALA:HB3	1.86	0.57
9:AI:117:HIS:HB2	9:AI:121:ARG:O	2.04	0.57
1:AA:1152:A:H5'	10:AJ:70:ARG:HH21	1.70	0.57
11:AK:103:LEU:N	11:AK:103:LEU:HD22	2.19	0.57
12:AL:34:ARG:O	12:AL:61:THR:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:36:VAL:CG1	12:AL:82:VAL:HA	2.34	0.57
12:AL:91:LYS:O	12:AL:92:ASP:CB	2.49	0.57
13:AM:30:ALA:O	13:AM:33:ALA:N	2.37	0.57
13:AM:86:CYS:SG	13:AM:88:ARG:N	2.78	0.57
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.17	0.57
19:AS:58:VAL:O	19:AS:60:VAL:HG12	2.05	0.57
20:AT:19:SER:HA	20:AT:22:ARG:CD	2.34	0.57
22:AV:52:G:C2'	22:AV:53:G:H8	2.15	0.57
24:AY:10:VAL:O	24:AY:279:PRO:CD	2.52	0.57
24:AY:21:HIS:CD2	24:AY:122:ARG:N	2.59	0.57
24:AY:219:VAL:CG2	24:AY:224:ALA:HB2	2.32	0.57
24:AY:10:VAL:CG1	24:AY:291:ALA:HB1	2.33	0.57
24:AY:299:PHE:HE1	24:AY:387:PHE:CE1	2.23	0.57
34:B9:1:MET:HG3	34:B9:32:HIS:HA	1.85	0.57
30:B5:6:VAL:HG22	35:BA:2016:U:O2	2.04	0.57
35:BA:2274:A:H5''	35:BA:2275:C:OP2	2.04	0.57
35:BA:2423:U:H5''	35:BA:2423:U:H6	1.69	0.57
35:BA:2045:C:C2	35:BA:2624:G:N2	2.73	0.57
35:BA:2781:A:H5'	35:BA:2782:G:O4'	2.05	0.57
35:BA:2850:A:H2	49:BR:61:HIS:CD2	2.22	0.57
35:BA:783:A:C6	35:BA:785:G:C8	2.93	0.57
35:BA:568:U:O4	35:BA:973:A:OP2	2.21	0.57
38:BD:25:THR:HG22	38:BD:26:LYS:H	1.69	0.57
45:BN:3:THR:HG22	45:BN:4:TYR:N	2.20	0.57
47:BP:67:MET:O	47:BP:69:GLY:N	2.38	0.57
50:BS:87:PHE:CD1	50:BS:88:ASP:N	2.67	0.57
52:BU:27:LEU:O	52:BU:31:SER:N	2.27	0.57
52:BU:74:LEU:CD1	52:BU:79:PHE:HB2	2.34	0.57
56:BY:28:LYS:HG2	56:BY:39:VAL:N	2.19	0.57
56:BY:46:LYS:HG2	56:BY:47:LYS:H	1.70	0.57
1:AA:1308:U:O2'	1:AA:1309:G:H5'	2.05	0.57
1:AA:1351:U:C2	1:AA:1352:C:H5	2.23	0.57
1:AA:1497:G:H2'	1:AA:1498:U:C5'	2.35	0.57
1:AA:298:A:H2'	1:AA:299:G:O4'	2.03	0.57
1:AA:360:A:OP1	24:AY:411:GLN:NE2	2.37	0.57
1:AA:429:U:H2'	4:AD:25:ARG:NH1	2.19	0.57
1:AA:630:G:H5'	1:AA:631:G:OP2	2.04	0.57
2:AB:45:GLN:HG2	2:AB:46:LYS:N	2.19	0.57
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.87	0.57
4:AD:11:LEU:N	4:AD:11:LEU:HD23	2.20	0.57
4:AD:147:ALA:HA	4:AD:182:LYS:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:122:HIS:O	7:AG:125:MET:HB2	2.05	0.57
7:AG:137:LYS:O	7:AG:141:VAL:HG23	2.05	0.57
1:AA:1202:G:C1'	14:AN:29:ARG:HD3	2.35	0.57
20:AT:57:ARG:HB2	20:AT:57:ARG:NH1	2.20	0.57
22:AV:49:G:C2	22:AV:50:U:C6	2.93	0.57
24:AY:324:LYS:HG3	24:AY:360:TYR:CG	2.40	0.57
24:AY:419:LEU:HD21	24:AY:424:ALA:HB3	1.87	0.57
26:B1:80:LEU:HD22	26:B1:82:LEU:CD2	2.34	0.57
30:B5:45:VAL:HG12	30:B5:50:GLY:HA2	1.86	0.57
31:B6:32:ASN:CG	31:B6:33:LYS:N	2.58	0.57
35:BA:1020:A:H5'	35:BA:1021:A:N3	2.20	0.57
35:BA:1297:C:H2'	35:BA:1298:C:C6	2.39	0.57
35:BA:2241:A:O2'	35:BA:2242:G:H5'	2.04	0.57
35:BA:2459:A:N7	35:BA:2460:U:C4	2.72	0.57
35:BA:2493:U:H6	35:BA:2493:U:O5'	1.88	0.57
35:BA:2532:G:H2'	35:BA:2533:A:O4'	2.05	0.57
35:BA:2599:G:H2'	35:BA:2600:A:H8	1.70	0.57
35:BA:2753:A:O2'	35:BA:2754:U:H5'	2.04	0.57
35:BA:556:G:C6	35:BA:557:U:C4	2.93	0.57
35:BA:603:A:N3	35:BA:604:G:H1'	2.20	0.57
35:BA:744:G:OP1	39:BE:132:HIS:HB3	2.03	0.57
36:BB:57:A:N7	41:BG:29:TRP:CD1	2.72	0.57
37:BC:59:ARG:CZ	37:BC:164:ARG:HD2	2.35	0.57
37:BC:78:ALA:HB1	37:BC:82:LYS:O	2.04	0.57
38:BD:186:HIS:ND1	38:BD:187:GLY:N	2.52	0.57
38:BD:229:VAL:CG1	38:BD:230:ASP:N	2.65	0.57
38:BD:265:PRO:C	38:BD:267:SER:N	2.58	0.57
38:BD:28:GLU:N	38:BD:29:PRO:CD	2.67	0.57
38:BD:31:LYS:O	38:BD:35:LYS:HB3	2.05	0.57
39:BE:82:ARG:O	39:BE:83:ASP:C	2.41	0.57
40:BF:51:THR:OG1	40:BF:88:VAL:HG11	2.04	0.57
41:BG:99:MET:HG2	41:BG:103:LEU:HD12	1.87	0.57
42:BH:59:ARG:CB	42:BH:59:ARG:HH11	2.17	0.57
45:BN:103:VAL:O	45:BN:104:LYS:C	2.42	0.57
45:BN:10:GLU:OE2	45:BN:11:PRO:HD2	2.04	0.57
45:BN:27:ALA:O	45:BN:30:ILE:HB	2.05	0.57
45:BN:76:SER:OG	45:BN:77:GLY:N	2.38	0.57
45:BN:95:PRO:O	45:BN:98:VAL:CG2	2.52	0.57
51:BT:19:LEU:HD12	51:BT:78:LEU:HD23	1.86	0.57
51:BT:60:THR:HG22	51:BT:77:PRO:CA	2.25	0.57
53:BV:12:TYR:HE2	53:BV:22:VAL:HG12	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:4:LYS:CA	54:BW:106:ILE:HG22	2.29	0.57
54:BW:6:ILE:HG12	54:BW:104:THR:HG22	1.87	0.57
1:AA:109:A:H5'	1:AA:110:C:C5	2.40	0.57
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.40	0.57
1:AA:1283:G:O2'	1:AA:1284:C:P	2.63	0.57
1:AA:1368:G:OP2	9:AI:112:LYS:CD	2.53	0.57
1:AA:1374:A:C2'	1:AA:1375:A:H5'	2.35	0.57
1:AA:528:C:H41	12:AL:49:ASN:ND2	2.03	0.57
2:AB:163:PHE:HD1	2:AB:185:ILE:HB	1.69	0.57
2:AB:228:GLY:O	2:AB:229:VAL:O	2.23	0.57
3:AC:11:ARG:HE	3:AC:180:ALA:HB3	1.69	0.57
8:AH:121:ASP:OD1	8:AH:122:ARG:N	2.38	0.57
14:AN:45:ARG:O	14:AN:49:HIS:CD2	2.57	0.57
17:AQ:27:PHE:O	17:AQ:36:ILE:HG13	2.04	0.57
22:AV:27:U:C2'	22:AV:28:C:C5'	2.82	0.57
24:AY:303:ILE:HA	24:AY:316:ALA:HA	1.87	0.57
26:B1:48:LYS:NZ	26:B1:60:PHE:C	2.59	0.57
35:BA:1814:G:O3'	38:BD:54:ARG:NH2	2.37	0.57
35:BA:219:G:C6	35:BA:220:G:C6	2.93	0.57
35:BA:2629:A:OP2	35:BA:2629:A:H3'	2.04	0.57
35:BA:2673:G:O2'	35:BA:2674:G:H5'	2.05	0.57
35:BA:2711:A:OP1	35:BA:2712(A):A:P	2.61	0.57
35:BA:2739:U:C5	35:BA:2763:G:C5	2.93	0.57
35:BA:2791:C:N4	35:BA:2801(A):A:H62	2.03	0.57
35:BA:484:C:P	56:BY:49:VAL:HG22	2.45	0.57
35:BA:579:G:H1'	35:BA:2017:U:N3	2.18	0.57
35:BA:74:A:O2'	35:BA:75:G:OP2	2.20	0.57
35:BA:783:A:N3	35:BA:785:G:H1'	2.20	0.57
35:BA:900:A:N3	35:BA:900:A:H2'	2.20	0.57
35:BA:950:G:C2	35:BA:951:C:C2	2.93	0.57
37:BC:175:VAL:HG22	37:BC:189:ILE:HA	1.85	0.57
37:BC:175:VAL:HG13	37:BC:188:ASN:CB	2.34	0.57
37:BC:21:THR:HA	37:BC:225:ASN:HB2	1.86	0.57
38:BD:117:VAL:HG13	38:BD:118:VAL:N	2.18	0.57
38:BD:229:VAL:CG1	38:BD:230:ASP:H	2.17	0.57
39:BE:195:LEU:HD11	39:BE:197:ILE:HG22	1.86	0.57
40:BF:2:LYS:HG3	40:BF:25:PRO:CG	2.35	0.57
41:BG:110:ALA:HB1	41:BG:140:ILE:HD13	1.86	0.57
45:BN:52:VAL:CG1	45:BN:53:VAL:H	2.17	0.57
35:BA:631:A:H4'	47:BP:65:ARG:HD3	1.85	0.57
47:BP:9:ASN:N	47:BP:10:PRO:HD2	2.14	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:31:ASP:HB3	48:BQ:32:TYR:CE1	2.39	0.57
52:BU:13:LYS:O	52:BU:17:ILE:CD1	2.53	0.57
30:B5:25:LEU:CD1	54:BW:19:LEU:O	2.52	0.57
54:BW:69:LEU:HD22	54:BW:107:LEU:HB2	1.87	0.57
1:AA:1031:G:H2'	1:AA:1032:G:O4'	2.04	0.57
1:AA:1353:G:C6	1:AA:1354:C:N4	2.73	0.57
1:AA:1423:G:OP1	46:BO:48:PRO:HB3	2.05	0.57
2:AB:223:ILE:HG21	2:AB:230:VAL:HG22	1.87	0.57
3:AC:124:ILE:HG12	3:AC:130:VAL:HG22	1.87	0.57
3:AC:52:LEU:HB2	3:AC:69:HIS:O	2.04	0.57
4:AD:89:THR:O	4:AD:93:PHE:N	2.38	0.57
5:AE:41:VAL:HG11	5:AE:113:ALA:HA	1.86	0.57
2:AB:181:PHE:CE1	8:AH:70:GLN:HB3	2.39	0.57
1:AA:706:A:O4'	11:AK:29:ILE:HD11	2.05	0.57
13:AM:16:ASP:HB2	13:AM:31:LYS:HG2	1.87	0.57
1:AA:728:A:N6	15:AO:51:HIS:HD2	2.03	0.57
1:AA:754:C:O2'	15:AO:66:LEU:HD23	2.04	0.57
1:AA:986:A:H1'	19:AS:54:GLY:O	2.05	0.57
24:AY:103:LEU:N	24:AY:103:LEU:HD12	2.18	0.57
24:AY:103:LEU:HD23	24:AY:109:CYS:SG	2.45	0.57
24:AY:97:GLU:HB3	24:AY:392:ASN:ND2	2.19	0.57
35:BA:1060:U:C4'	35:BA:1061:U:H5	2.17	0.57
35:BA:134:C:C2	35:BA:135:G:C8	2.93	0.57
35:BA:1661:G:H2'	35:BA:1662:C:C6	2.36	0.57
35:BA:1676:A:C6	35:BA:1677:A:C6	2.93	0.57
35:BA:1925:C:C3'	35:BA:1926:U:H5''	2.28	0.57
35:BA:1971:A:C8	38:BD:241:PRO:CB	2.85	0.57
35:BA:1667:G:H22	35:BA:1991:U:H3'	1.69	0.57
35:BA:322:A:H5'	35:BA:340:A:C1'	2.35	0.57
35:BA:729:G:H5'	35:BA:730:C:H5''	1.86	0.57
35:BA:871:U:O2	35:BA:871:U:H2'	2.04	0.57
35:BA:914:C:H2'	35:BA:915:C:C5'	2.17	0.57
36:BB:101:G:H2'	36:BB:102:A:H8	1.68	0.57
37:BC:44:HIS:HA	37:BC:171:ILE:O	2.05	0.57
38:BD:65:ILE:HD11	38:BD:88:ARG:HH11	1.70	0.57
35:BA:601:C:C5'	40:BF:108:LYS:HZ1	2.18	0.57
40:BF:116:ASP:O	40:BF:120:GLU:HG2	2.05	0.57
41:BG:166:ASP:O	41:BG:168:GLU:N	2.38	0.57
47:BP:31:ALA:O	47:BP:33:ARG:N	2.31	0.57
47:BP:40:SER:OG	47:BP:45:LEU:HD21	2.04	0.57
48:BQ:65:PHE:HD2	48:BQ:105:GLU:O	1.88	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2880:C:O3'	49:BR:90:ARG:NH1	2.38	0.57
54:BW:12:ILE:HG13	54:BW:42:ARG:NH1	2.19	0.57
54:BW:36:LEU:CD1	54:BW:48:ALA:HB2	2.35	0.57
54:BW:5:ALA:O	54:BW:6:ILE:HB	2.04	0.57
1:AA:1389:C:O2'	1:AA:1390:U:H5'	2.04	0.56
1:AA:730:G:O6	15:AO:51:HIS:HE1	1.88	0.56
1:AA:79:G:H3'	1:AA:83:U:OP1	2.05	0.56
2:AB:48:MET:O	2:AB:51:LEU:N	2.38	0.56
3:AC:43:LEU:C	3:AC:45:LYS:N	2.57	0.56
4:AD:58:LEU:CD1	4:AD:62:GLN:HG3	2.34	0.56
5:AE:33:VAL:CG2	5:AE:43:LEU:CD1	2.81	0.56
13:AM:107:ALA:O	13:AM:111:LYS:HD3	2.04	0.56
16:AP:50:LYS:HE2	16:AP:50:LYS:O	2.05	0.56
21:AU:5:ASP:C	21:AU:7:ARG:N	2.56	0.56
22:AV:40:C:H2'	22:AV:41:C:H6	1.70	0.56
24:AY:127:MET:O	24:AY:130:THR:HG22	2.05	0.56
24:AY:193:TYR:HB3	24:AY:263:PHE:CE1	2.37	0.56
24:AY:72:THR:HA	24:AY:89:THR:HA	1.87	0.56
28:B3:8:LEU:CD1	28:B3:30:ARG:O	2.53	0.56
33:B8:6:THR:HG22	33:B8:61:LEU:CD1	2.34	0.56
35:BA:1060:U:C4'	35:BA:1061:U:C5	2.88	0.56
35:BA:1256:G:H2'	35:BA:1257:C:C6	2.40	0.56
35:BA:1665:A:H4'	46:BO:66:LYS:O	2.04	0.56
35:BA:1954:G:H22	35:BA:1986:A:P	2.28	0.56
35:BA:2020:A:C2	35:BA:2022:U:C6	2.92	0.56
35:BA:2057:A:H2'	35:BA:2058:A:H8	1.64	0.56
35:BA:2101:G:H2'	35:BA:2102:U:O4'	2.05	0.56
35:BA:2292:C:O2'	35:BA:2293:C:H5'	2.04	0.56
35:BA:2359:C:C2'	35:BA:2360:A:H5'	2.34	0.56
35:BA:2455:G:C6	35:BA:2456:C:N4	2.73	0.56
35:BA:639:U:O2'	35:BA:640:C:H5'	2.04	0.56
35:BA:747:U:C4	35:BA:2613:U:C5	2.93	0.56
38:BD:31:LYS:O	38:BD:35:LYS:HB2	2.05	0.56
40:BF:119:ARG:NH2	40:BF:120:GLU:OE2	2.38	0.56
45:BN:10:GLU:CG	45:BN:11:PRO:HD2	2.35	0.56
46:BO:35:VAL:HG23	46:BO:65:THR:HG23	1.85	0.56
47:BP:121:LYS:O	47:BP:123:LEU:HD23	2.05	0.56
47:BP:16:ARG:HD3	47:BP:17:LYS:N	2.20	0.56
49:BR:47:PHE:O	49:BR:50:HIS:N	2.38	0.56
50:BS:89:ARG:HG2	50:BS:92:TYR:HA	1.87	0.56
51:BT:121:ILE:CA	51:BT:124:ASP:HB2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:65:ILE:CD1	52:BU:96:ALA:HB3	2.35	0.56
57:BZ:108:PRO:HG2	57:BZ:111:VAL:CG2	2.34	0.56
57:BZ:143:GLY:C	57:BZ:144:LEU:HD22	2.26	0.56
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.39	0.56
1:AA:232:G:C2	1:AA:233:C:C2	2.93	0.56
1:AA:458:C:N4	1:AA:474:G:N1	2.53	0.56
1:AA:628:G:O2'	1:AA:629:G:H5'	2.05	0.56
1:AA:680:C:H2'	1:AA:681:C:H6	1.69	0.56
1:AA:781:A:H2'	1:AA:782:A:H5'	1.86	0.56
1:AA:826:C:C4	1:AA:827:U:H5	2.21	0.56
2:AB:201:ILE:O	2:AB:202:PRO:C	2.40	0.56
3:AC:183:ASP:O	3:AC:202:ILE:N	2.33	0.56
3:AC:70:VAL:O	3:AC:106:VAL:HG23	2.04	0.56
5:AE:73:ASN:ND2	5:AE:73:ASN:O	2.38	0.56
7:AG:50:ILE:HD11	7:AG:121:ALA:CA	2.35	0.56
8:AH:2:LEU:CD2	8:AH:5:PRO:HA	2.35	0.56
8:AH:95:VAL:CG2	8:AH:133:LEU:HD13	2.35	0.56
9:AI:23:ASN:OD1	9:AI:24:GLY:N	2.38	0.56
12:AL:129:ALA:N	24:AY:487:ARG:NH1	2.54	0.56
15:AO:27:VAL:O	15:AO:30:ALA:CB	2.54	0.56
15:AO:60:VAL:HA	15:AO:63:ARG:HD2	1.87	0.56
17:AQ:83:ASP:CG	17:AQ:84:LEU:N	2.58	0.56
24:AY:14:ARG:HD3	24:AY:276:ALA:HB1	1.85	0.56
24:AY:416:LEU:O	24:AY:417:VAL:C	2.44	0.56
29:B4:40:HIS:CG	29:B4:41:PRO:HA	2.40	0.56
32:B7:37:LYS:HZ3	32:B7:39:ARG:NH2	2.03	0.56
33:B8:7:HIS:O	33:B8:7:HIS:ND1	2.38	0.56
35:BA:1092:C:OP2	35:BA:1093:G:N7	2.38	0.56
35:BA:1349:A:N6	35:BA:1598:C:H42	2.02	0.56
35:BA:1422:G:H2'	35:BA:1423:G:H8	1.70	0.56
35:BA:1478:G:C2	35:BA:1479:G:N7	2.72	0.56
35:BA:1508:A:H2'	35:BA:1508:A:N3	2.19	0.56
35:BA:1954:G:H21	35:BA:1956:U:H3	1.53	0.56
35:BA:2281:C:H2'	35:BA:2282:G:C8	2.40	0.56
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.04	0.56
35:BA:2578:G:O2'	35:BA:2579:C:H5'	2.05	0.56
35:BA:482:A:H1'	35:BA:498:G:N2	2.20	0.56
35:BA:573:G:N2	35:BA:2029:G:N2	2.54	0.56
35:BA:704:G:N3	35:BA:726:G:C2	2.73	0.56
36:BB:15:A:H1'	36:BB:110:G:C5	2.40	0.56
38:BD:126:GLN:O	38:BD:193:VAL:HG21	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:79:VAL:HG23	38:BD:114:GLY:N	2.20	0.56
39:BE:171:GLU:C	39:BE:173:VAL:H	2.08	0.56
40:BF:118:ALA:HA	40:BF:123:LEU:HB3	1.85	0.56
40:BF:33:LEU:HD21	40:BF:112:MET:HG2	1.87	0.56
35:BA:1257:C:H4'	40:BF:83:PHE:CD1	2.39	0.56
42:BH:105:LEU:N	42:BH:105:LEU:HD22	2.13	0.56
45:BN:62:VAL:HG11	45:BN:67:LEU:CD2	2.35	0.56
51:BT:77:PRO:O	51:BT:78:LEU:CB	2.52	0.56
53:BV:5:VAL:HG21	53:BV:35:LEU:CG	2.34	0.56
35:BA:1322:A:OP1	54:BW:11:ARG:HG3	2.04	0.56
1:AA:1068:G:N2	1:AA:1069:C:C2	2.73	0.56
1:AA:1366:C:O2'	10:AJ:60:ARG:NH2	2.36	0.56
1:AA:1399:C:C2	1:AA:1502:A:N6	2.74	0.56
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.23	0.56
1:AA:197:A:C6	1:AA:221:C:H4'	2.38	0.56
1:AA:507:C:OP1	1:AA:508:C:O3'	2.23	0.56
1:AA:796:C:H2'	1:AA:797:C:H6	1.70	0.56
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.58	0.56
7:AG:99:LEU:HD23	7:AG:102:ARG:CZ	2.35	0.56
8:AH:32:LYS:O	8:AH:36:LEU:HG	2.05	0.56
10:AJ:91:PRO:O	10:AJ:92:THR:C	2.43	0.56
11:AK:29:ILE:O	11:AK:29:ILE:HG12	2.05	0.56
18:AR:83:GLU:C	18:AR:84:LYS:HZ3	2.09	0.56
20:AT:48:LYS:HD2	20:AT:51:GLU:OE2	2.05	0.56
22:AV:32:C:H2'	22:AV:33:U:C5'	2.34	0.56
24:AY:281:PRO:C	24:AY:282:ARG:HD2	2.24	0.56
24:AY:403:LEU:N	24:AY:403:LEU:CD2	2.68	0.56
25:B0:51:VAL:HG21	25:B0:80:HIS:HA	1.86	0.56
32:B7:9:ARG:HG3	32:B7:9:ARG:HH11	1.69	0.56
35:BA:1007:C:O2'	45:BN:108:PRO:HA	2.04	0.56
35:BA:1047:G:C2	35:BA:1110:G:H2'	2.40	0.56
35:BA:1408:C:C2	35:BA:1595:G:N2	2.74	0.56
35:BA:1496:A:C2'	35:BA:1498:C:H41	2.15	0.56
35:BA:2097:C:H1'	35:BA:2193:G:N2	2.20	0.56
35:BA:2640:G:H2'	35:BA:2641:G:H5''	1.87	0.56
35:BA:631:A:H2'	35:BA:632:A:C8	2.40	0.56
35:BA:721:C:O2	35:BA:721:C:H2'	2.05	0.56
35:BA:942:G:C6	35:BA:943:U:C4	2.93	0.56
37:BC:76:ALA:HA	37:BC:114:VAL:HG23	1.86	0.56
37:BC:49:ILE:CG2	37:BC:208:PHE:CE1	2.88	0.56
38:BD:146:GLU:OE1	38:BD:152:GLY:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1569:A:O2'	38:BD:38:LYS:HG2	2.04	0.56
38:BD:95:LEU:N	38:BD:95:LEU:HD13	2.20	0.56
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.35	0.56
40:BF:165:ARG:CB	40:BF:168:ARG:HH21	2.18	0.56
46:BO:14:THR:CG2	46:BO:94:ARG:HB2	2.35	0.56
47:BP:39:LYS:C	47:BP:41:ARG:HG2	2.23	0.56
50:BS:13:ARG:CG	50:BS:14:VAL:N	2.50	0.56
52:BU:49:HIS:O	52:BU:53:ARG:N	2.33	0.56
55:BX:24:GLY:HA3	55:BX:82:GLN:NE2	2.20	0.56
57:BZ:24:LEU:N	57:BZ:39:VAL:O	2.27	0.56
1:AA:1001(A):G:C8	1:AA:1002:G:C8	2.88	0.56
1:AA:1019:C:C2'	1:AA:1020:U:H5'	2.35	0.56
1:AA:1206:G:H2'	1:AA:1207:G:O4'	2.05	0.56
1:AA:1267:C:C2	21:AU:20:LYS:HD2	2.40	0.56
1:AA:162:A:C5	1:AA:163:C:H1'	2.40	0.56
1:AA:244:U:H4'	1:AA:245:C:H5''	1.88	0.56
1:AA:402:G:O2'	1:AA:403:C:H5'	2.05	0.56
1:AA:822:C:O2'	1:AA:823:G:H5'	2.04	0.56
1:AA:834:C:C4	1:AA:853:G:N1	2.73	0.56
1:AA:939:G:H1	1:AA:1344:C:H42	1.50	0.56
1:AA:956:U:C2'	1:AA:957:U:H5'	2.34	0.56
1:AA:404:U:C5'	4:AD:122:ARG:HD3	2.35	0.56
4:AD:5:ILE:N	4:AD:115:ARG:HH12	2.02	0.56
6:AF:22:GLU:HA	6:AF:25:ILE:HG22	1.85	0.56
9:AI:33:PHE:CZ	9:AI:43:ALA:HB1	2.36	0.56
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.40	0.56
11:AK:57:THR:HG22	11:AK:60:ALA:HB3	1.87	0.56
17:AQ:95:TYR:HD1	17:AQ:98:LEU:CD1	2.14	0.56
24:AY:103:LEU:CD1	24:AY:103:LEU:H	2.17	0.56
24:AY:336:THR:O	24:AY:337:ALA:HB2	2.05	0.56
25:B0:26:TYR:N	25:B0:26:TYR:CD1	2.72	0.56
28:B3:52:HIS:CE1	36:BB:83:G:H5''	2.39	0.56
32:B7:34:ARG:O	32:B7:39:ARG:HB2	2.05	0.56
33:B8:38:GLY:O	33:B8:41:ILE:HG23	2.06	0.56
35:BA:1313:U:H3'	35:BA:1313:U:O2	2.06	0.56
35:BA:1887:C:H2'	35:BA:1888:G:C4'	2.35	0.56
1:AA:1484:C:HO2'	35:BA:1961:C:H5'	1.70	0.56
35:BA:2014:A:C4	35:BA:2015:A:N6	2.74	0.56
35:BA:201:C:H2'	35:BA:202:U:H5'	1.88	0.56
35:BA:203:C:H3'	35:BA:204:A:H5''	1.87	0.56
35:BA:2085:C:H2'	35:BA:2086:U:C6	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:185:U:C2	35:BA:212:G:N2	2.74	0.56
35:BA:219:G:H2'	35:BA:220:G:C8	2.41	0.56
30:B5:7:PRO:HA	35:BA:2615:U:C6	2.41	0.56
35:BA:2794:C:N4	35:BA:2801(A):A:N6	2.53	0.56
35:BA:74:A:H4'	35:BA:75:G:O5'	2.05	0.56
35:BA:786:C:C2	35:BA:787:U:C5	2.94	0.56
38:BD:92:ILE:CB	38:BD:106:ILE:HA	2.34	0.56
39:BE:55:ASN:O	39:BE:56:PRO:O	2.23	0.56
35:BA:674:G:N3	40:BF:74:ARG:NH1	2.54	0.56
42:BH:145:ALA:HB1	42:BH:164:TYR:OH	2.05	0.56
45:BN:115:ARG:HA	45:BN:118:LYS:HE2	1.87	0.56
49:BR:102:GLU:OE1	49:BR:105:ARG:NH2	2.37	0.56
51:BT:29:ARG:NE	51:BT:86:ILE:HG23	2.12	0.56
52:BU:104:GLN:C	52:BU:106:PHE:N	2.59	0.56
52:BU:66:ASN:HD21	52:BU:70:ARG:HG3	1.71	0.56
1:AA:116:A:O2'	1:AA:117:G:H5'	2.04	0.56
1:AA:122:G:C2	1:AA:123:C:C2	2.94	0.56
1:AA:1332:A:C2'	1:AA:1333:A:H5'	2.35	0.56
1:AA:1480:G:C2	1:AA:1481:U:C2	2.94	0.56
1:AA:299:G:H2'	1:AA:300:A:N7	2.21	0.56
1:AA:374:A:H4'	1:AA:451:A:OP1	2.05	0.56
1:AA:575:G:C8	1:AA:881:G:N2	2.73	0.56
2:AB:122:PHE:HA	2:AB:139:LYS:HZ2	1.70	0.56
3:AC:47:LEU:HD11	3:AC:76:VAL:HG12	1.87	0.56
4:AD:173:TRP:HB3	4:AD:187:ARG:HH22	1.71	0.56
4:AD:59:ARG:CZ	4:AD:59:ARG:CA	2.72	0.56
15:AO:60:VAL:HG13	15:AO:63:ARG:HD2	1.86	0.56
17:AQ:76:LEU:CD1	17:AQ:78:GLU:H	2.19	0.56
1:AA:279:A:H2'	17:AQ:95:TYR:HE1	1.69	0.56
19:AS:32:LYS:HB3	19:AS:57:HIS:CE1	2.40	0.56
20:AT:40:ALA:HB2	20:AT:55:ILE:CG2	2.34	0.56
23:AX:14:A:C3'	23:AX:15:A:C5'	2.73	0.56
24:AY:284:THR:HG22	24:AY:287:ARG:O	2.06	0.56
24:AY:344:ASP:CG	24:AY:344:ASP:O	2.43	0.56
24:AY:416:LEU:HD13	24:AY:427:VAL:HG11	1.88	0.56
26:B1:19:GLN:HB2	26:B1:35:THR:HG23	1.86	0.56
27:B2:25:VAL:CG2	27:B2:60:LEU:HD13	2.21	0.56
35:BA:1168:G:H2'	35:BA:1169:G:H8	1.71	0.56
35:BA:1429:G:H2'	35:BA:1430:C:C6	2.39	0.56
35:BA:1473:G:O6	35:BA:1519:G:C2	2.59	0.56
35:BA:2352:A:N7	35:BA:2366:A:C6	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1669:A:O3'	35:BA:2549:G:H5'	2.06	0.56
35:BA:2764:A:H2'	35:BA:2766:G:C8	2.41	0.56
38:BD:109:ASP:OD1	38:BD:110:GLY:N	2.38	0.56
38:BD:177:LEU:HD23	38:BD:177:LEU:N	2.20	0.56
38:BD:206:LEU:HB3	38:BD:211:ARG:HG2	1.88	0.56
38:BD:212:SER:HA	38:BD:215:LEU:CD1	2.33	0.56
39:BE:126:PRO:O	39:BE:128:SER:N	2.38	0.56
43:BJ:56:UNK:O	43:BJ:57:UNK:O	2.22	0.56
44:BK:23:UNK:O	44:BK:25:UNK:N	2.38	0.56
45:BN:95:PRO:O	45:BN:98:VAL:HB	2.06	0.56
47:BP:77:ARG:HH11	47:BP:77:ARG:HG2	1.71	0.56
48:BQ:60:ARG:CB	48:BQ:60:ARG:NH1	2.63	0.56
49:BR:67:LEU:CD1	49:BR:71:GLN:O	2.53	0.56
50:BS:29:PHE:CE1	50:BS:31:SER:CB	2.82	0.56
51:BT:106:SER:O	51:BT:107:ASP:HB3	2.05	0.56
51:BT:65:LYS:NZ	51:BT:66:VAL:H	2.03	0.56
35:BA:996:A:H4'	52:BU:92:ARG:CZ	2.35	0.56
48:BQ:141:GLN:HE22	57:BZ:72:ARG:C	2.07	0.56
57:BZ:8:TYR:HD2	57:BZ:38:TYR:OH	1.76	0.56
1:AA:1286:A:O2'	1:AA:1287:A:C5'	2.53	0.56
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.06	0.56
1:AA:195:A:OP1	20:AT:68:LYS:NZ	2.37	0.56
2:AB:223:ILE:O	2:AB:226:ARG:CB	2.49	0.56
3:AC:139:GLN:HA	3:AC:139:GLN:OE1	2.04	0.56
7:AG:17:VAL:HG12	7:AG:18:TYR:N	2.19	0.56
11:AK:83:ILE:HA	11:AK:109:VAL:O	2.04	0.56
14:AN:22:THR:HB	14:AN:33:VAL:HG21	1.88	0.56
19:AS:31:ILE:CG2	19:AS:49:ILE:HA	2.36	0.56
24:AY:269:LEU:O	24:AY:273:VAL:HG23	2.06	0.56
24:AY:335:ARG:NE	24:AY:374:GLN:OE1	2.38	0.56
24:AY:506:THR:HG22	24:AY:506:THR:O	2.06	0.56
25:B0:7:LEU:HD13	48:BQ:85:LYS:NZ	2.20	0.56
29:B4:9:LEU:HA	29:B4:26:SER:O	2.04	0.56
19:AS:23:ASN:HA	29:B4:47:GLN:HB3	1.87	0.56
30:B5:46:CYS:HB2	30:B5:48:GLU:HG2	1.88	0.56
31:B6:40:CYS:SG	31:B6:45:LYS:HB2	2.44	0.56
35:BA:117:G:H2'	35:BA:119:A:C8	2.41	0.56
35:BA:1223:G:C2	35:BA:1227:G:C5	2.94	0.56
35:BA:145:G:C2'	35:BA:146:G:H5''	2.36	0.56
35:BA:1904:G:H1'	35:BA:1927:A:N6	2.17	0.56
35:BA:2101:G:C6	35:BA:2102:U:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2115:G:N2	35:BA:2119:A:OP1	2.36	0.56
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.06	0.56
35:BA:2629:A:N3	35:BA:2629:A:H2'	2.21	0.56
35:BA:2673:G:H2'	35:BA:2674:G:H8	1.71	0.56
35:BA:2745:C:H2'	35:BA:2746:U:H6	1.71	0.56
35:BA:2760:C:C3'	35:BA:2761:G:H5''	2.36	0.56
35:BA:584:C:O2'	35:BA:585:G:H5'	2.04	0.56
35:BA:607:U:H5	35:BA:619:G:C4	2.23	0.56
35:BA:682:G:H2'	35:BA:683:C:C6	2.41	0.56
35:BA:687:C:H2'	35:BA:688:U:H5'	1.87	0.56
35:BA:884:C:H2'	35:BA:885:C:H5''	1.88	0.56
28:B3:10:LYS:NZ	35:BA:987:G:OP1	2.34	0.56
37:BC:72:VAL:HG22	37:BC:74:VAL:CG2	2.34	0.56
1:AA:712:A:H5'	38:BD:139:GLY:HA3	1.87	0.56
40:BF:29:ASN:O	40:BF:33:LEU:HD23	2.06	0.56
44:BK:91:UNK:O	44:BK:92:UNK:CB	2.54	0.56
46:BO:87:ILE:HG22	46:BO:92:GLU:H	1.70	0.56
49:BR:48:VAL:C	49:BR:51:LEU:HB2	2.26	0.56
51:BT:65:LYS:CE	51:BT:66:VAL:N	2.68	0.56
57:BZ:155:LEU:HD23	57:BZ:155:LEU:N	2.20	0.56
1:AA:107:G:C2	1:AA:108:G:H1'	2.41	0.56
2:AB:101:MET:O	2:AB:105:PHE:HD1	1.89	0.56
3:AC:23:TYR:CD1	3:AC:23:TYR:C	2.79	0.56
3:AC:52:LEU:HD12	3:AC:55:VAL:CG2	2.35	0.56
4:AD:100:ARG:O	4:AD:104:VAL:HG23	2.05	0.56
4:AD:163:GLU:OE1	4:AD:163:GLU:HA	2.06	0.56
5:AE:138:ALA:O	5:AE:141:GLN:N	2.36	0.56
5:AE:35:GLY:CA	5:AE:40:ARG:O	2.54	0.56
7:AG:114:ARG:O	7:AG:119:ARG:NH1	2.39	0.56
8:AH:112:LEU:HB2	8:AH:132:GLU:O	2.05	0.56
16:AP:9:PHE:HB2	16:AP:16:HIS:O	2.05	0.56
18:AR:22:VAL:CG1	18:AR:43:PHE:HE1	2.18	0.56
21:AU:20:LYS:HG2	21:AU:20:LYS:O	2.04	0.56
24:AY:208:LYS:O	24:AY:209:GLY:C	2.43	0.56
24:AY:138:LEU:CD1	24:AY:272:LEU:HB3	2.31	0.56
24:AY:473:TRP:O	24:AY:524:HIS:O	2.22	0.56
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.06	0.56
32:B7:14:LYS:HD2	35:BA:125:G:H5'	1.86	0.56
33:B8:4:MET:CE	35:BA:592:G:H21	2.19	0.56
35:BA:1057:A:C2	35:BA:1082:U:N3	2.64	0.56
35:BA:1058:G:OP1	44:BK:1:UNK:C	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1119:C:O2'	35:BA:1120:G:H5'	2.05	0.56
35:BA:1370:C:H3'	35:BA:1371:G:H8	1.71	0.56
35:BA:1458:C:H6	35:BA:1458:C:O5'	1.89	0.56
35:BA:1911:U:O5'	35:BA:1911:U:H6	1.88	0.56
35:BA:2179:C:H5''	35:BA:2180:U:OP1	2.06	0.56
35:BA:2334:G:H4'	35:BA:2335:A:OP2	2.05	0.56
35:BA:2464:C:C2	35:BA:2465:C:C6	2.93	0.56
35:BA:2821:A:O2'	35:BA:2822:G:H5'	2.05	0.56
35:BA:44:G:H21	35:BA:435:C:H41	1.52	0.56
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.86	0.56
35:BA:672:C:H2'	35:BA:673:C:C5'	2.35	0.56
35:BA:71:A:H3'	35:BA:71:A:OP2	2.05	0.56
35:BA:803:U:HO2'	35:BA:804:A:H5'	1.69	0.56
37:BC:141:LYS:NZ	37:BC:164:ARG:HH21	2.00	0.56
37:BC:28:LEU:HG	37:BC:28:LEU:O	2.06	0.56
37:BC:53:ARG:NH1	37:BC:55:ASP:HB2	2.13	0.56
37:BC:6:ARG:CZ	37:BC:7:TYR:HA	2.35	0.56
37:BC:75:LEU:HB2	37:BC:93:TYR:O	2.05	0.56
38:BD:184:LYS:HG3	38:BD:269:PHE:O	2.06	0.56
40:BF:110:LEU:HD13	40:BF:110:LEU:C	2.25	0.56
40:BF:57:VAL:HG12	40:BF:59:TYR:N	2.15	0.56
40:BF:8:GLN:CG	40:BF:9:ILE:H	2.18	0.56
45:BN:24:GLY:O	45:BN:28:THR:HG22	2.05	0.56
35:BA:1667:G:H5'	46:BO:5:GLN:O	2.06	0.56
47:BP:71:VAL:N	47:BP:72:PRO:CD	2.47	0.56
47:BP:84:ASN:HA	47:BP:115:LEU:O	2.04	0.56
48:BQ:106:VAL:HG21	48:BQ:114:ALA:CB	2.35	0.56
49:BR:27:SER:O	49:BR:30:THR:HG22	2.06	0.56
50:BS:57:LYS:HD2	50:BS:57:LYS:O	2.05	0.56
51:BT:53:ARG:HB2	51:BT:53:ARG:HH11	1.70	0.56
52:BU:79:PHE:HE1	52:BU:83:LEU:CD2	2.19	0.56
57:BZ:140:ASP:OD1	57:BZ:150:LEU:HD13	2.05	0.56
1:AA:1113:C:O2'	1:AA:1114:C:H5'	2.06	0.56
1:AA:1117:G:C2	1:AA:1184:G:C2	2.94	0.56
1:AA:127:G:C2	1:AA:235:C:N3	2.74	0.56
1:AA:505:G:H2'	1:AA:506:G:C8	2.41	0.56
1:AA:929:G:O5'	1:AA:929:G:H8	1.89	0.56
2:AB:153:ARG:CG	2:AB:154:LEU:H	2.19	0.56
2:AB:19:HIS:HD2	2:AB:20:GLU:OE1	1.89	0.56
3:AC:14:ILE:HD11	3:AC:178:LEU:HG	1.86	0.56
3:AC:34:LEU:O	3:AC:38:ARG:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:77:PRO:HB2	5:AE:78:HIS:HD2	1.71	0.56
6:AF:12:PRO:HG2	6:AF:13:ASN:ND2	2.20	0.56
8:AH:83:ILE:HG23	8:AH:83:ILE:O	2.05	0.56
12:AL:18:VAL:O	12:AL:19:ARG:HB3	2.06	0.56
14:AN:22:THR:HB	14:AN:33:VAL:CG2	2.35	0.56
15:AO:39:LEU:CB	15:AO:56:LEU:CD2	2.74	0.56
20:AT:91:LEU:C	20:AT:93:GLU:N	2.55	0.56
22:AV:34:C:H6	22:AV:34:C:O5'	1.89	0.56
24:AY:221:GLU:O	24:AY:222:ASP:C	2.42	0.56
24:AY:282:ARG:O	24:AY:283:GLN:CB	2.54	0.56
28:B3:31:LEU:CD2	28:B3:32:GLN:HE21	2.18	0.56
19:AS:23:ASN:CB	29:B4:47:GLN:HG2	2.33	0.56
31:B6:28:ARG:HA	31:B6:32:ASN:ND2	2.21	0.56
32:B7:35:ARG:NH1	32:B7:42:LEU:HD11	2.21	0.56
35:BA:1166:C:O2	35:BA:1184:G:C2	2.59	0.56
35:BA:1203:G:C5	35:BA:1204:A:N1	2.74	0.56
35:BA:1479:G:N2	35:BA:1480:G:H1'	2.20	0.56
35:BA:1667:G:N3	35:BA:1991:U:C4	2.74	0.56
35:BA:2462:U:H2'	35:BA:2463:C:O4'	2.06	0.56
35:BA:2590:A:P	38:BD:238:GLY:HA2	2.46	0.56
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.06	0.56
35:BA:2764:A:H3'	35:BA:2766:G:N7	2.20	0.56
35:BA:27:G:O2'	35:BA:28:A:OP2	2.24	0.56
35:BA:353:G:C2	35:BA:354:G:C8	2.93	0.56
35:BA:377:C:O2'	35:BA:378:C:H5'	2.04	0.56
35:BA:720:C:N3	35:BA:721:C:H1'	2.20	0.56
35:BA:774:A:H2	35:BA:787:U:O2'	1.89	0.56
36:BB:10:C:C4	36:BB:11:C:C5	2.94	0.56
39:BE:7:VAL:O	39:BE:26:ILE:HG22	2.06	0.56
41:BG:34:LEU:CA	41:BG:161:THR:HG22	2.25	0.56
41:BG:42:GLY:O	41:BG:43:LEU:HB2	2.06	0.56
42:BH:103:LEU:O	42:BH:105:LEU:HD13	2.04	0.56
42:BH:27:LYS:CG	42:BH:32:GLU:HG2	2.33	0.56
45:BN:67:LEU:O	45:BN:68:GLU:HB2	2.05	0.56
46:BO:17:ARG:O	46:BO:18:LYS:HG3	2.04	0.56
33:B8:12:LYS:HG2	47:BP:68:GLN:HE21	1.70	0.56
47:BP:7:ARG:O	47:BP:10:PRO:HD2	2.05	0.56
49:BR:21:TYR:HB3	49:BR:47:PHE:CE2	2.41	0.56
49:BR:38:VAL:HG23	49:BR:110:PRO:O	2.05	0.56
51:BT:78:LEU:O	51:BT:78:LEU:HD23	2.06	0.56
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:300:A:O5'	1:AA:300:A:H8	1.89	0.56
1:AA:509:A:C2	1:AA:510:A:C2	2.93	0.56
1:AA:824:C:H2'	1:AA:825:G:C8	2.40	0.56
2:AB:221:LEU:O	2:AB:222:ILE:C	2.42	0.56
3:AC:123:GLN:CB	3:AC:128:PHE:HD2	2.18	0.56
4:AD:30:LYS:O	4:AD:32:ALA:N	2.38	0.56
6:AF:25:ILE:N	6:AF:28:ARG:NH1	2.53	0.56
8:AH:35:ILE:O	8:AH:36:LEU:C	2.43	0.56
12:AL:41:ARG:CG	12:AL:42:THR:H	2.07	0.56
15:AO:62:GLN:HA	15:AO:65:ARG:CG	2.36	0.56
18:AR:34:TYR:HD2	18:AR:72:ARG:HH11	1.54	0.56
24:AY:221:GLU:HG2	24:AY:222:ASP:H	1.70	0.56
24:AY:527:ARG:CD	24:AY:528:GLU:H	2.15	0.56
31:B6:6:ARG:NH1	31:B6:7:ILE:HG13	2.20	0.56
35:BA:1803:A:H3'	35:BA:1804:C:C6	2.41	0.56
35:BA:2039:C:C2	35:BA:2040:C:C5	2.94	0.56
35:BA:2163:C:H2'	35:BA:2164:C:O4'	2.04	0.56
35:BA:2521:C:N4	35:BA:2544:G:H1	2.03	0.56
35:BA:2639:A:H3'	35:BA:2640:G:C8	2.41	0.56
35:BA:564:C:H2'	35:BA:565:C:H6	1.70	0.56
32:B7:2:LYS:HE2	35:BA:687:C:H5"	1.88	0.56
25:B0:27:GLU:OE2	35:BA:856:C:H1'	2.05	0.56
37:BC:37:PHE:HE1	37:BC:39:GLU:HG3	1.68	0.56
38:BD:79:VAL:CG2	38:BD:115:GLN:N	2.69	0.56
35:BA:2784:C:O2'	39:BE:37:ARG:NH1	2.38	0.56
39:BE:34:VAL:CG1	39:BE:48:GLN:HE21	2.17	0.56
39:BE:48:GLN:HA	39:BE:79:ARG:O	2.06	0.56
40:BF:156:LEU:O	40:BF:157:VAL:CG1	2.54	0.56
40:BF:57:VAL:HG12	40:BF:58:ALA:N	2.20	0.56
45:BN:134:ARG:NH2	45:BN:136:GLU:HB2	2.21	0.56
45:BN:99:LEU:HD13	45:BN:103:VAL:HG23	1.86	0.56
45:BN:6:PRO:O	45:BN:9:VAL:HG23	2.06	0.56
47:BP:85:LEU:CD1	47:BP:120:ALA:HB2	2.35	0.56
53:BV:72:VAL:HG23	53:BV:85:LYS:HB2	1.85	0.56
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.88	0.56
1:AA:1324:A:H2'	1:AA:1325:C:O4'	2.05	0.56
1:AA:1371:G:OP2	9:AI:11:LYS:HD2	2.06	0.56
1:AA:771:G:H2'	1:AA:772:U:H6	1.70	0.56
2:AB:142:LEU:HA	2:AB:145:LEU:HB3	1.87	0.56
8:AH:13:ILE:HD13	8:AH:13:ILE:N	2.20	0.56
9:AI:104:ARG:HG3	9:AI:104:ARG:NH1	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:16:ARG:HH11	9:AI:16:ARG:HG3	1.71	0.56
10:AJ:53:PRO:HA	14:AN:42:ILE:HD11	1.87	0.56
14:AN:52:GLN:O	14:AN:54:PRO:HD3	2.05	0.56
15:AO:36:ILE:CG1	15:AO:59:MET:HE1	2.31	0.56
15:AO:60:VAL:HG13	15:AO:63:ARG:CD	2.36	0.56
15:AO:5:LYS:HA	15:AO:8:LYS:HG3	1.87	0.56
18:AR:22:VAL:HG11	18:AR:43:PHE:CE1	2.41	0.56
19:AS:51:VAL:HG11	19:AS:75:ALA:HB2	1.88	0.56
24:AY:254:VAL:HG12	24:AY:256:PHE:CE1	2.41	0.56
24:AY:138:LEU:CD2	24:AY:275:TRP:HE3	2.19	0.56
25:B0:38:VAL:HG11	25:B0:59:LEU:HD12	1.88	0.56
26:B1:87:PRO:CG	26:B1:88:LYS:H	2.19	0.56
30:B5:41:PRO:HD3	54:BW:38:TYR:CE1	2.41	0.56
35:BA:1278:A:C2	35:BA:1293:C:N3	2.73	0.56
35:BA:1432:C:O2	35:BA:1562:A:C2	2.59	0.56
35:BA:1514:U:H2'	35:BA:1515:G:H8	1.71	0.56
35:BA:1910:G:N2	35:BA:1920:C:N3	2.45	0.56
35:BA:2023:G:H2'	35:BA:2024:G:H8	1.70	0.56
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.70	0.56
35:BA:242:G:H1'	35:BA:243:U:C5	2.39	0.56
35:BA:1050:A:H1'	35:BA:2751:G:C2	2.41	0.56
35:BA:419:C:H2'	35:BA:420:C:H6	1.71	0.56
35:BA:485:C:C4	35:BA:486:C:N4	2.74	0.56
35:BA:961:C:H42	35:BA:2031:A:H1'	1.70	0.56
37:BC:47:LEU:CD2	37:BC:171:ILE:HD12	2.35	0.56
38:BD:108:PRO:CG	38:BD:143:HIS:NE2	2.69	0.56
35:BA:2572:A:C4	39:BE:144:ARG:NH1	2.74	0.56
35:BA:2810:A:N3	39:BE:61:ARG:NH2	2.54	0.56
39:BE:9:VAL:CG1	39:BE:10:GLY:N	2.68	0.56
40:BF:154:VAL:HG13	40:BF:191:ARG:C	2.26	0.56
42:BH:126:PRO:HD2	42:BH:131:VAL:HA	1.88	0.56
45:BN:55:VAL:HG13	45:BN:56:ASN:N	2.19	0.56
52:BU:26:GLY:O	52:BU:28:ARG:N	2.39	0.56
52:BU:46:ALA:O	52:BU:49:HIS:N	2.38	0.56
53:BV:39:LEU:CD1	53:BV:47:VAL:HG11	2.36	0.56
57:BZ:41:LEU:O	57:BZ:44:PHE:CB	2.53	0.56
57:BZ:57:ILE:CD1	57:BZ:57:ILE:H	2.19	0.56
1:AA:220:G:C2'	1:AA:221:C:H5'	2.35	0.56
1:AA:184:G:O4'	1:AA:224:C:H5''	2.05	0.56
1:AA:377:G:H2'	1:AA:378:G:H8	1.71	0.56
1:AA:622:A:C8	1:AA:623:C:C5	2.94	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:929:G:C8	1:AA:929:G:O5'	2.59	0.56
1:AA:945:G:C2'	1:AA:946:A:H5'	2.36	0.56
2:AB:18:GLY:O	2:AB:19:HIS:HB2	2.04	0.56
9:AI:100:GLY:O	9:AI:102:LEU:N	2.39	0.56
12:AL:86:ARG:HH21	12:AL:99:HIS:CD2	2.23	0.56
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.04	0.56
15:AO:49:ASP:CG	15:AO:52:SER:HB3	2.26	0.56
18:AR:34:TYR:HD2	18:AR:72:ARG:HD3	1.69	0.56
18:AR:53:ARG:C	18:AR:55:ARG:H	2.09	0.56
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.21	0.56
22:AV:17(A):U:C4'	22:AV:18:G:OP1	2.54	0.56
22:AV:71:C:H3'	22:AV:72:A:C8	2.40	0.56
24:AY:454:LYS:O	24:AY:454:LYS:HD3	2.06	0.56
25:B0:10:THR:HG22	25:B0:12:ASN:N	2.18	0.56
26:B1:80:LEU:HD22	26:B1:82:LEU:HD22	1.87	0.56
29:B4:14:ILE:CG1	29:B4:31:ILE:HB	2.30	0.56
31:B6:33:LYS:HA	31:B6:33:LYS:CE	2.19	0.56
35:BA:1367:A:H2'	35:BA:1368:G:C5'	2.35	0.56
35:BA:1712:C:N4	35:BA:1747:G:N1	2.54	0.56
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.87	0.56
35:BA:1964:G:C6	35:BA:1967:C:N4	2.74	0.56
35:BA:2043:C:H2'	35:BA:2044:C:H6	1.69	0.56
35:BA:2110:G:H22	35:BA:2178:C:H5	1.54	0.56
26:B1:43:TYR:HB2	35:BA:2230:G:O3'	2.06	0.56
35:BA:241:A:H5'	35:BA:243:U:H1'	1.87	0.56
35:BA:723:G:C2	35:BA:724:U:C2	2.94	0.56
35:BA:925:C:C3'	35:BA:926:A:H5''	2.36	0.56
38:BD:24:ILE:HD13	38:BD:84:TYR:CA	2.34	0.56
39:BE:144:ARG:CG	39:BE:145:LYS:N	2.69	0.56
40:BF:6:VAL:HG11	40:BF:124:LEU:CD1	2.36	0.56
41:BG:83:ARG:NH1	41:BG:84:LYS:HZ1	2.04	0.56
44:BK:125:UNK:HA	44:BK:129:UNK:CB	2.36	0.56
50:BS:14:VAL:O	50:BS:15:ARG:C	2.44	0.56
50:BS:42:ASP:C	50:BS:44:LYS:N	2.54	0.56
50:BS:67:ARG:NH2	50:BS:100:ALA:CB	2.69	0.56
57:BZ:128:VAL:CG1	57:BZ:133:ILE:HD13	2.36	0.56
57:BZ:6:LYS:O	57:BZ:39:VAL:HG12	2.06	0.56
1:AA:1074:G:H2'	1:AA:1075:C:H6	1.72	0.55
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.40	0.55
1:AA:1109:C:C2	1:AA:1110:A:C8	2.94	0.55
1:AA:1210:C:H5'	1:AA:1214:C:N4	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:274:A:O2'	1:AA:275:G:C8	2.60	0.55
1:AA:748:C:O2'	1:AA:749:C:P	2.64	0.55
1:AA:990:C:H2'	1:AA:991:U:C1'	2.35	0.55
5:AE:103:GLY:HA3	5:AE:122:GLU:OE1	2.06	0.55
7:AG:140:ASP:O	7:AG:143:ARG:HB2	2.06	0.55
7:AG:15:ASP:OD1	7:AG:16:LEU:N	2.39	0.55
12:AL:88:GLY:O	12:AL:99:HIS:ND1	2.37	0.55
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.60	0.55
20:AT:56:MET:HA	20:AT:59:ALA:HB3	1.88	0.55
24:AY:147:ASP:HA	24:AY:175:CYS:HB3	1.88	0.55
24:AY:279:PRO:HB2	24:AY:361:PRO:O	2.06	0.55
24:AY:423:GLY:O	24:AY:425:VAL:N	2.38	0.55
25:B0:26:TYR:HB3	25:B0:27:GLU:OE2	2.06	0.55
27:B2:2:LYS:HB2	35:BA:97:C:C5'	2.22	0.55
35:BA:1590:U:C3'	35:BA:1591:G:H5''	2.36	0.55
35:BA:1774:C:H4'	35:BA:1979:C:O2	2.06	0.55
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.72	0.55
35:BA:2035:G:H3'	35:BA:2036:C:C5'	2.33	0.55
35:BA:2366:A:H2'	35:BA:2367:G:O4'	2.06	0.55
35:BA:2487:G:H2'	35:BA:2488:A:C8	2.42	0.55
35:BA:2639:A:H3'	35:BA:2640:G:H8	1.71	0.55
35:BA:272(D):G:H1	35:BA:364:C:H42	1.54	0.55
35:BA:648:G:H4'	35:BA:2351:G:H5''	1.88	0.55
35:BA:797:C:C2'	35:BA:798:G:H8	2.00	0.55
38:BD:131:LEU:CB	38:BD:136:ILE:HG13	2.27	0.55
38:BD:33:LEU:HD23	38:BD:34:VAL:HG22	1.88	0.55
38:BD:64:ILE:HG13	38:BD:65:ILE:N	2.21	0.55
39:BE:34:VAL:O	39:BE:34:VAL:HG13	2.06	0.55
39:BE:37:ARG:O	39:BE:45:THR:HA	2.06	0.55
40:BF:195:ASP:OD2	40:BF:197:ASP:HB2	2.05	0.55
40:BF:8:GLN:CG	40:BF:9:ILE:N	2.66	0.55
41:BG:159:VAL:CG2	41:BG:159:VAL:O	2.53	0.55
45:BN:58:ASP:C	45:BN:60:ILE:N	2.56	0.55
45:BN:94:HIS:N	45:BN:95:PRO:CD	2.69	0.55
47:BP:146:VAL:HG13	47:BP:147:LEU:H	1.71	0.55
48:BQ:39:PRO:O	48:BQ:40:ALA:HB2	2.06	0.55
50:BS:102:ALA:C	50:BS:103:GLU:OE1	2.45	0.55
50:BS:24:LEU:HD13	50:BS:41:ASP:OD1	2.05	0.55
51:BT:30:VAL:HA	51:BT:43:GLN:O	2.06	0.55
55:BX:26:TYR:HD2	55:BX:92:LEU:HD12	1.70	0.55
56:BY:15:VAL:CG1	56:BY:17:SER:OG	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:120:ILE:HG12	57:BZ:172:ALA:N	2.20	0.55
1:AA:1392:G:N2	1:AA:1502:A:C8	2.74	0.55
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.36	0.55
1:AA:193:C:O2'	1:AA:194:C:H5'	2.06	0.55
1:AA:913:A:H4'	1:AA:914:A:H4'	1.88	0.55
2:AB:97:TRP:CZ2	2:AB:173:ALA:HA	2.42	0.55
4:AD:52:SER:O	4:AD:56:VAL:HG23	2.06	0.55
5:AE:80:ILE:HA	8:AH:104:ARG:HH22	1.65	0.55
6:AF:36:ARG:HB3	6:AF:66:GLU:HB3	1.88	0.55
7:AG:129:GLU:OE1	7:AG:131:LYS:HE2	2.06	0.55
7:AG:13:GLN:O	7:AG:14:PRO:C	2.45	0.55
7:AG:94:ARG:O	7:AG:97:GLN:N	2.40	0.55
12:AL:28:LYS:O	12:AL:30:ALA:N	2.39	0.55
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.88	0.55
13:AM:41:PRO:O	13:AM:42:ALA:C	2.45	0.55
24:AY:170:THR:HG22	24:AY:184:HIS:CA	2.16	0.55
24:AY:78:PRO:CB	24:AY:83:LEU:HA	2.35	0.55
27:B2:2:LYS:HZ3	27:B2:5:GLU:CD	2.10	0.55
35:BA:1036:G:C2	35:BA:1120:G:C6	2.94	0.55
35:BA:1054:A:H2	35:BA:1055:G:C5	2.24	0.55
35:BA:1286:A:C2	35:BA:1329:U:C5	2.94	0.55
35:BA:1653:G:O2'	35:BA:1654:A:OP2	2.17	0.55
35:BA:2021:C:H4'	35:BA:2022:U:OP2	2.06	0.55
35:BA:2049:G:C2'	35:BA:2050:C:H5'	2.37	0.55
35:BA:723:G:H2'	35:BA:724:U:H6	1.64	0.55
36:BB:54:G:N2	36:BB:55:U:N1	2.53	0.55
37:BC:186:ALA:HB1	37:BC:190:ARG:NH1	2.20	0.55
37:BC:6:ARG:NH1	37:BC:34:THR:O	2.39	0.55
37:BC:59:ARG:NH1	37:BC:164:ARG:CZ	2.69	0.55
41:BG:123:ASN:HB2	41:BG:126:ASP:OD2	2.06	0.55
41:BG:66:GLN:O	41:BG:68:PRO:HD3	2.06	0.55
41:BG:76:SER:HB3	41:BG:83:ARG:HG2	1.89	0.55
45:BN:116:LEU:O	45:BN:119:ARG:N	2.38	0.55
35:BA:1244:G:H4'	47:BP:11:GLY:CA	2.35	0.55
47:BP:85:LEU:HD12	47:BP:120:ALA:HB2	1.88	0.55
48:BQ:53:ALA:C	48:BQ:56:ARG:HB2	2.26	0.55
51:BT:62:THR:HG22	51:BT:75:ILE:CB	2.36	0.55
51:BT:50:ILE:HA	51:BT:99:LEU:HD11	1.88	0.55
53:BV:2:PHE:HB3	53:BV:41:GLY:C	2.27	0.55
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.27	0.55
1:AA:754:C:C5'	15:AO:72:ARG:HH12	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:834:C:O2'	1:AA:835:U:H5'	2.05	0.55
2:AB:152:PHE:O	2:AB:153:ARG:CB	2.54	0.55
2:AB:167:PRO:O	2:AB:171:ALA:HB2	2.07	0.55
2:AB:68:ILE:HB	2:AB:70:PHE:HE1	1.71	0.55
4:AD:96:LEU:CD1	4:AD:96:LEU:H	2.18	0.55
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.68	0.55
10:AJ:27:ALA:CA	10:AJ:30:SER:HB3	2.37	0.55
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.80	0.55
15:AO:10:LYS:O	15:AO:13:GLN:HB2	2.06	0.55
24:AY:21:HIS:CD2	24:AY:122:ARG:HB2	2.41	0.55
24:AY:109:CYS:C	24:AY:137:ILE:HG22	2.27	0.55
24:AY:413:LEU:O	24:AY:417:VAL:HG23	2.05	0.55
30:B5:8:LYS:CB	35:BA:2054:A:C2	2.90	0.55
31:B6:10:LEU:HD13	33:B8:34:TRP:HD1	1.70	0.55
33:B8:23:VAL:HG12	33:B8:46:ARG:NH1	2.20	0.55
33:B8:25:MET:SD	47:BP:64:LYS:HD3	2.46	0.55
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.41	0.55
35:BA:1770:G:C2'	35:BA:1771:C:H5'	2.36	0.55
35:BA:1922:G:H2'	35:BA:1923:U:C6	2.41	0.55
35:BA:2050:C:N4	35:BA:2051:A:C6	2.74	0.55
35:BA:1889:A:O2'	35:BA:2087:G:H5'	2.05	0.55
35:BA:2394:C:O2	35:BA:2394:C:H2'	2.06	0.55
35:BA:2493:U:H2'	35:BA:2494:G:O4'	2.06	0.55
35:BA:2519:U:C5	35:BA:2542:A:C2	2.94	0.55
35:BA:2692:C:H1'	35:BA:2847:U:H1'	1.88	0.55
35:BA:2857:G:H2'	35:BA:2858:C:O5'	2.07	0.55
35:BA:449:A:H2'	35:BA:450:G:H8	1.71	0.55
35:BA:598:G:C6	35:BA:599:G:C6	2.95	0.55
35:BA:635:C:O2'	35:BA:636:G:H5'	2.05	0.55
35:BA:811:U:O2	35:BA:1251:C:C4	2.59	0.55
36:BB:116:G:C2	36:BB:117:G:C5	2.94	0.55
37:BC:47:LEU:HD22	37:BC:58:VAL:HG21	1.87	0.55
38:BD:208:LYS:HG3	38:BD:210:GLY:CA	2.36	0.55
38:BD:90:ALA:CB	38:BD:106:ILE:HG23	2.36	0.55
39:BE:8:LYS:HA	39:BE:26:ILE:CG2	2.36	0.55
40:BF:179:GLU:O	40:BF:205:ARG:NH1	2.39	0.55
48:BQ:76:LYS:HB3	48:BQ:91:GLU:HG3	1.88	0.55
52:BU:104:GLN:C	52:BU:106:PHE:H	2.10	0.55
57:BZ:96:VAL:CG1	57:BZ:130:PRO:HG3	2.36	0.55
1:AA:1063:C:H42	1:AA:1193:G:H1	1.54	0.55
1:AA:1371:G:H5''	9:AI:69:GLY:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1436:U:C5	1:AA:1437:C:C5	2.94	0.55
1:AA:1418:A:C2	1:AA:1483:A:C2	2.94	0.55
1:AA:30:U:H1'	1:AA:31:G:OP1	2.06	0.55
1:AA:797:C:O2	1:AA:797:C:H2'	2.05	0.55
1:AA:882:C:H2'	1:AA:883:C:H6	1.70	0.55
2:AB:123:ALA:O	2:AB:124:SER:HB2	2.07	0.55
3:AC:73:PRO:HG3	3:AC:105:GLU:HB2	1.87	0.55
3:AC:142:MET:C	3:AC:144:SER:N	2.59	0.55
6:AF:62:TRP:CD2	18:AR:35:ARG:NH2	2.75	0.55
7:AG:19:GLY:O	7:AG:20:ASP:C	2.44	0.55
9:AI:29:ASN:OD1	9:AI:64:THR:HA	2.06	0.55
10:AJ:51:ARG:HG3	10:AJ:51:ARG:HH11	1.71	0.55
1:AA:948:C:P	13:AM:108:ARG:H	2.29	0.55
1:AA:657:G:H4'	15:AO:28:GLN:HG2	1.88	0.55
15:AO:45:VAL:CG1	15:AO:46:HIS:N	2.69	0.55
16:AP:7:ALA:HB1	16:AP:29:ASP:HA	1.87	0.55
16:AP:74:LEU:CB	16:AP:79:VAL:HG21	2.36	0.55
24:AY:18:ILE:HD11	24:AY:30:THR:OG1	2.06	0.55
24:AY:236:GLY:O	24:AY:237:ALA:CB	2.54	0.55
24:AY:360:TYR:HB3	24:AY:361:PRO:CD	2.27	0.55
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.67	0.55
30:B5:32:PRO:HD2	35:BA:2886:G:O2'	2.05	0.55
35:BA:139:G:C6	35:BA:140:G:H2'	2.41	0.55
35:BA:1712:C:C2'	35:BA:1713:U:H5'	2.36	0.55
35:BA:1720:U:H2'	35:BA:1721:G:C4'	2.36	0.55
35:BA:2159:G:C2'	35:BA:2160:G:C5'	2.81	0.55
35:BA:848:G:N3	35:BA:933:A:H1'	2.21	0.55
35:BA:955:C:OP1	48:BQ:87:LYS:HE3	2.06	0.55
38:BD:165:ILE:HA	38:BD:175:LEU:HD22	1.88	0.55
38:BD:44:ASN:HD22	38:BD:48:ARG:N	2.04	0.55
40:BF:154:VAL:HG12	40:BF:155:LEU:H	1.71	0.55
40:BF:18:ARG:CZ	40:BF:199:TRP:CZ3	2.88	0.55
40:BF:6:VAL:CG1	40:BF:7:TYR:N	2.52	0.55
41:BG:171:ALA:CA	41:BG:174:GLU:HB3	2.36	0.55
49:BR:47:PHE:C	49:BR:49:ASP:N	2.59	0.55
35:BA:2839:G:C4'	49:BR:49:ASP:OD2	2.53	0.55
52:BU:12:ARG:HB2	52:BU:13:LYS:NZ	2.22	0.55
53:BV:98:GLU:OE2	53:BV:100:ARG:HD3	2.06	0.55
54:BW:1:MET:HG3	54:BW:64:MET:CE	2.36	0.55
54:BW:72:LYS:HE3	54:BW:108:GLY:HA3	1.87	0.55
57:BZ:100:VAL:HG11	57:BZ:137:ILE:HG13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.06	0.55
1:AA:127:G:N2	1:AA:235:C:C2	2.75	0.55
1:AA:1432:G:HO2'	1:AA:1433:A:H8	1.52	0.55
1:AA:22:G:H5''	1:AA:885:G:OP2	2.07	0.55
1:AA:575:G:C5	1:AA:881:G:N2	2.75	0.55
1:AA:622:A:H3'	1:AA:623:C:C5	2.41	0.55
1:AA:874:G:C6	1:AA:875:C:N4	2.75	0.55
1:AA:951:G:C2'	1:AA:952:U:C6	2.66	0.55
2:AB:142:LEU:O	2:AB:146:GLN:N	2.39	0.55
3:AC:38:ARG:O	3:AC:39:ILE:C	2.43	0.55
3:AC:7:PRO:HG2	3:AC:8:ILE:H	1.71	0.55
10:AJ:91:PRO:O	10:AJ:93:GLY:N	2.40	0.55
12:AL:75:HIS:HD2	12:AL:77:LEU:HB2	1.70	0.55
17:AQ:7:THR:O	17:AQ:23:VAL:HG13	2.07	0.55
19:AS:40:ILE:HG13	19:AS:69:HIS:O	2.07	0.55
19:AS:63:THR:HG23	19:AS:65:ASN:N	2.19	0.55
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.07	0.55
24:AY:28:THR:N	58:AY:1000:GCP:O1A	2.31	0.55
24:AY:241:PHE:CZ	24:AY:275:TRP:NE1	2.74	0.55
24:AY:425:VAL:HG21	24:AY:449:VAL:HG13	1.88	0.55
24:AY:72:THR:OG1	24:AY:302:LYS:NZ	2.35	0.55
26:B1:18:ILE:HG21	26:B1:20:ARG:CZ	2.36	0.55
27:B2:27:GLU:O	27:B2:30:ARG:N	2.38	0.55
27:B2:8:LYS:O	27:B2:12:GLU:HB2	2.05	0.55
28:B3:5:LYS:CB	28:B3:36:VAL:HG12	2.37	0.55
30:B5:40:LYS:NZ	30:B5:45:VAL:HA	2.22	0.55
31:B6:9:LEU:HD22	31:B6:10:LEU:N	2.20	0.55
35:BA:1054:A:C2	35:BA:1055:G:C5	2.94	0.55
35:BA:1528(A):A:H8	35:BA:1529:G:C8	2.24	0.55
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.70	0.55
35:BA:1806:C:H2'	35:BA:1807:G:H8	1.72	0.55
35:BA:1826:G:C6	35:BA:1827:C:C4	2.95	0.55
35:BA:184:C:O3'	35:BA:217:G:N2	2.39	0.55
35:BA:271(M):G:O2'	35:BA:271(O):C:H5'	2.05	0.55
35:BA:2706:G:H5''	35:BA:2851:A:H5''	1.89	0.55
35:BA:341:G:O2'	35:BA:342:G:H5'	2.06	0.55
35:BA:35:G:C4	35:BA:454:A:C2	2.94	0.55
35:BA:535:C:O2'	35:BA:536:A:H5'	2.07	0.55
36:BB:31:C:H2'	36:BB:31:C:O2	2.05	0.55
36:BB:31:C:N4	36:BB:51:G:H1	2.04	0.55
38:BD:40:THR:O	38:BD:41:GLY:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:62:TYR:HE1	38:BD:64:ILE:CA	2.19	0.55
40:BF:70:THR:C	40:BF:72:ARG:N	2.59	0.55
41:BG:28:VAL:O	41:BG:29:TRP:CG	2.60	0.55
41:BG:5:VAL:CG1	41:BG:6:ALA:H	2.09	0.55
45:BN:47:ALA:N	45:BN:48:MET:HE2	2.21	0.55
45:BN:94:HIS:HA	45:BN:96:GLU:OE2	2.06	0.55
1:AA:1030:C:N4	1:AA:1032:G:N2	2.54	0.55
1:AA:1030:C:N4	1:AA:1032:G:H21	2.05	0.55
1:AA:1055:A:C6	1:AA:1206:G:C5	2.95	0.55
1:AA:482:A:H2'	1:AA:483:C:O4'	2.07	0.55
2:AB:152:PHE:HD1	2:AB:153:ARG:N	2.04	0.55
2:AB:185:ILE:N	2:AB:185:ILE:CD1	2.69	0.55
2:AB:208:ILE:O	2:AB:209:ARG:C	2.45	0.55
4:AD:134:ASP:OD1	4:AD:134:ASP:N	2.40	0.55
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.55	0.55
6:AF:80:ARG:NH1	6:AF:88:VAL:O	2.39	0.55
9:AI:52:ALA:HB3	9:AI:95:LYS:NZ	2.21	0.55
12:AL:113:ARG:HG3	12:AL:114:LYS:N	2.22	0.55
12:AL:121:GLY:O	12:AL:122:THR:O	2.25	0.55
19:AS:20:LEU:CA	19:AS:23:ASN:HB3	2.34	0.55
19:AS:61:TYR:O	19:AS:62:ILE:CB	2.54	0.55
24:AY:289:VAL:HG12	24:AY:322:SER:HB3	1.87	0.55
24:AY:473:TRP:HZ3	24:AY:500:ASN:CB	1.93	0.55
25:B0:37:LEU:HD23	25:B0:37:LEU:N	2.20	0.55
30:B5:28:PRO:HG2	54:BW:35:ILE:CD1	2.35	0.55
35:BA:83:G:H22	35:BA:102:G:H2'	1.69	0.55
35:BA:126:A:C6	35:BA:127:A:C2	2.94	0.55
35:BA:116:C:OP1	35:BA:128:C:N4	2.40	0.55
32:B7:8:ASN:HA	35:BA:1309:G:H5'	1.89	0.55
35:BA:1429:G:H5'	35:BA:1568:G:O2'	2.05	0.55
35:BA:1773:A:C2	35:BA:1978:A:C2	2.95	0.55
35:BA:2008:C:O2'	35:BA:2009:G:H5'	2.07	0.55
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.06	0.55
35:BA:2586:C:O5'	35:BA:2586:C:H6	1.90	0.55
35:BA:2646:C:H2'	35:BA:2646:C:O2	2.06	0.55
35:BA:2864:G:OP1	51:BT:119:LYS:HG3	2.06	0.55
38:BD:211:ARG:HH11	38:BD:211:ARG:HG3	1.71	0.55
48:BQ:50:ALA:O	48:BQ:52:VAL:N	2.40	0.55
48:BQ:19:GLY:O	48:BQ:98:LYS:HD3	2.07	0.55
51:BT:23:ARG:CZ	51:BT:120:ARG:HD3	2.37	0.55
51:BT:57:PHE:O	51:BT:79:HIS:CE1	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:80:SER:OG	51:BT:81:PRO:CD	2.55	0.55
53:BV:57:VAL:HG22	53:BV:58:VAL:N	2.22	0.55
55:BX:12:VAL:HG12	55:BX:27:THR:CA	2.36	0.55
56:BY:88:LYS:NZ	56:BY:93:GLY:N	2.54	0.55
57:BZ:127:LYS:HG2	57:BZ:162:GLU:HG3	1.88	0.55
1:AA:1200:C:H1'	1:AA:1205:U:O4	2.07	0.55
1:AA:1226:C:C6	13:AM:104:ARG:HA	2.41	0.55
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.72	0.55
2:AB:189:ASP:OD1	2:AB:189:ASP:C	2.44	0.55
4:AD:9:CYS:HA	4:AD:12:CYS:SG	2.46	0.55
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	1.99	0.55
11:AK:66:LEU:O	11:AK:69:ALA:HB3	2.06	0.55
11:AK:96:ARG:O	11:AK:97:ALA:C	2.45	0.55
12:AL:103:GLY:HA3	12:AL:121:GLY:HA2	1.87	0.55
16:AP:38:TYR:OH	16:AP:47:ASP:OD1	2.24	0.55
24:AY:186:TYR:OH	24:AY:241:PHE:N	2.40	0.55
24:AY:472:ARG:HD3	24:AY:525:GLN:HB3	1.87	0.55
26:B1:48:LYS:HZ2	26:B1:60:PHE:C	2.09	0.55
27:B2:27:GLU:O	27:B2:30:ARG:HB3	2.06	0.55
30:B5:4:HIS:HB2	30:B5:5:PRO:HD3	1.89	0.55
32:B7:35:ARG:HH11	32:B7:35:ARG:HG2	1.72	0.55
35:BA:1018:C:H2'	35:BA:1019:U:O4'	2.07	0.55
35:BA:1061:U:P	44:BK:1:UNK:H2	2.30	0.55
35:BA:1070:A:H8	35:BA:1070:A:OP2	1.89	0.55
35:BA:1345:C:H4'	35:BA:1396:U:N3	2.22	0.55
35:BA:1451:C:H5'	35:BA:1452:A:H5'	1.88	0.55
35:BA:1607:C:N4	35:BA:1621:U:H2'	2.22	0.55
35:BA:2305:A:C8	41:BG:135:LEU:O	2.60	0.55
35:BA:2309:A:H2'	35:BA:2310:A:C5'	2.36	0.55
35:BA:2282:G:H1	35:BA:2427:C:H42	1.54	0.55
35:BA:2839:G:O2'	35:BA:2840:C:H5'	2.07	0.55
35:BA:575:A:O2'	35:BA:576:U:C5'	2.54	0.55
35:BA:578:A:C8	35:BA:2018:G:H5'	2.41	0.55
36:BB:89:G:H2'	36:BB:90:A:C8	2.42	0.55
37:BC:30:LYS:HZ1	37:BC:30:LYS:HA	1.71	0.55
38:BD:143:HIS:O	38:BD:192:THR:HG23	2.07	0.55
38:BD:242:ARG:HD2	38:BD:242:ARG:H	1.70	0.55
39:BE:12:THR:HG23	39:BE:13:ARG:N	2.21	0.55
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.88	0.55
39:BE:62:PRO:C	39:BE:64:LYS:H	2.09	0.55
41:BG:7:LEU:HD22	41:BG:176:LEU:CD2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.37	0.55
49:BR:17:ARG:HB2	49:BR:17:ARG:CZ	2.37	0.55
49:BR:9:LYS:O	49:BR:10:LEU:HD23	2.06	0.55
50:BS:56:LEU:O	50:BS:57:LYS:C	2.45	0.55
50:BS:97:ARG:O	50:BS:97:ARG:CZ	2.55	0.55
35:BA:1754:C:H4'	51:BT:101:PHE:CD1	2.42	0.55
36:BB:75:G:HO2'	57:BZ:85:HIS:CE1	2.25	0.55
1:AA:105:G:H2'	1:AA:106:C:H6	1.65	0.55
1:AA:1067:A:O2'	1:AA:1068:G:C8	2.59	0.55
1:AA:1221:G:OP1	1:AA:1321:C:N3	2.39	0.55
1:AA:131:C:H2'	1:AA:131:C:O2	2.05	0.55
1:AA:1418:A:H2	1:AA:1483:A:C2	2.25	0.55
1:AA:236:G:H5''	17:AQ:42:TYR:OH	2.07	0.55
1:AA:741:G:O2'	1:AA:742:G:H5'	2.07	0.55
1:AA:928:G:H2'	1:AA:929:G:C8	2.41	0.55
4:AD:96:LEU:HA	4:AD:99:SER:CB	2.37	0.55
6:AF:72:VAL:O	6:AF:75:LEU:N	2.38	0.55
10:AJ:32:ALA:HB3	10:AJ:76:ASN:HB2	1.89	0.55
12:AL:35:GLY:CA	12:AL:59:ARG:O	2.54	0.55
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.70	0.55
13:AM:70:LEU:HA	13:AM:73:GLU:HB3	1.87	0.55
18:AR:58:LEU:CD1	18:AR:66:LEU:HD22	2.27	0.55
22:AV:51:C:H6	22:AV:51:C:O5'	1.90	0.55
25:B0:51:VAL:HG23	25:B0:80:HIS:HA	1.87	0.55
33:B8:30:ARG:HA	33:B8:30:ARG:NE	2.22	0.55
34:B9:36:GLN:OE1	35:BA:1124:C:H1'	2.06	0.55
35:BA:1357:U:H2'	35:BA:1358:G:O4'	2.07	0.55
35:BA:1389:G:C2	35:BA:1399:C:O2	2.60	0.55
35:BA:1887:C:H2'	35:BA:1888:G:O4'	2.06	0.55
35:BA:1919:A:C2'	35:BA:1920:C:C5'	2.82	0.55
35:BA:2266:A:H8	35:BA:2266:A:OP1	1.90	0.55
35:BA:2314:C:H5''	41:BG:38:VAL:HG21	1.89	0.55
35:BA:2615:U:H2'	35:BA:2616:C:C6	2.42	0.55
35:BA:2631:G:H1	39:BE:61:ARG:HH12	1.54	0.55
35:BA:453:C:O4'	35:BA:457:A:C2	2.60	0.55
37:BC:193:ILE:HG22	37:BC:193:ILE:O	2.07	0.55
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.53	0.55
44:BK:55:UNK:CB	44:BK:69:UNK:HA	2.37	0.55
46:BO:105:GLU:HG3	46:BO:108:GLU:OE2	2.07	0.55
46:BO:43:VAL:O	46:BO:54:GLU:HA	2.07	0.55
1:AA:1423:G:OP1	46:BO:49:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:53:ARG:CB	51:BT:53:ARG:NH1	2.70	0.55
52:BU:27:LEU:HA	52:BU:30:LYS:CB	2.36	0.55
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.41	0.55
1:AA:452:A:N7	1:AA:480:U:O4	2.39	0.55
1:AA:534:U:H5'	1:AA:534:U:H6	1.71	0.55
1:AA:909:A:OP1	12:AL:21:LYS:NZ	2.35	0.55
1:AA:992:U:O2	1:AA:992:U:H2'	2.07	0.55
2:AB:138:LEU:N	2:AB:138:LEU:CD2	2.67	0.55
3:AC:154:SER:HA	3:AC:165:THR:HA	1.88	0.55
5:AE:82:VAL:HG11	5:AE:134:ALA:O	2.07	0.55
8:AH:11:THR:C	8:AH:13:ILE:H	2.10	0.55
17:AQ:76:LEU:HD12	17:AQ:78:GLU:H	1.72	0.55
17:AQ:91:ARG:CB	17:AQ:91:ARG:HH11	2.20	0.55
19:AS:51:VAL:HG23	19:AS:60:VAL:HG11	1.89	0.55
1:AA:1503:A:H2'	23:AX:12:A:H62	1.72	0.55
24:AY:150:ASP:OD1	24:AY:151:PRO:HD2	2.07	0.55
24:AY:176:GLY:O	24:AY:179:PHE:HB2	2.07	0.55
24:AY:138:LEU:CD1	24:AY:268:MET:CE	2.82	0.55
24:AY:327:LYS:NZ	24:AY:344:ASP:CB	2.69	0.55
24:AY:99:THR:HA	24:AY:102:THR:CB	2.36	0.55
27:B2:25:VAL:C	27:B2:27:GLU:H	2.10	0.55
33:B8:29:LYS:HA	33:B8:32:LEU:HB2	1.88	0.55
33:B8:50:LEU:O	33:B8:51:ALA:CB	2.55	0.55
35:BA:1160:G:O2'	35:BA:1161:C:H5'	2.07	0.55
35:BA:818:G:N2	35:BA:1188:U:OP2	2.36	0.55
35:BA:131:G:H2'	35:BA:132:G:C8	2.42	0.55
35:BA:1528(A):A:H62	35:BA:1541:G:H21	1.49	0.55
35:BA:1625:C:H2'	35:BA:1626:G:C5'	2.37	0.55
35:BA:807:U:O2'	35:BA:2060:A:N1	2.40	0.55
35:BA:2222:G:H5'	38:BD:149:PRO:HG3	1.89	0.55
35:BA:2391:G:H1'	35:BA:2429:G:H21	1.71	0.55
35:BA:2396:G:N1	35:BA:2421:G:O6	2.40	0.55
35:BA:391:G:C2	35:BA:392:C:C2	2.95	0.55
35:BA:459:U:H2'	35:BA:460:A:C8	2.42	0.55
35:BA:485:C:H2'	35:BA:486:C:C5	2.42	0.55
35:BA:734:A:H2'	35:BA:735:A:O4'	2.06	0.55
35:BA:931:G:C2	35:BA:933:A:C5	2.94	0.55
37:BC:134:ARG:H	37:BC:134:ARG:HD2	1.72	0.55
37:BC:131:LEU:HD22	37:BC:136:LEU:CD1	2.37	0.55
38:BD:158:ALA:O	38:BD:196:VAL:CG1	2.47	0.55
38:BD:3:VAL:HG22	38:BD:200:ASP:OD1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:70:TRP:CD1	38:BD:150:LYS:HE3	2.42	0.55
39:BE:154:LYS:O	39:BE:155:LYS:C	2.44	0.55
39:BE:189:PRO:O	39:BE:190:GLY:O	2.25	0.55
40:BF:123:LEU:HD11	40:BF:125:LEU:HD22	1.89	0.55
41:BG:137:GLU:O	41:BG:138:GLN:HB3	2.07	0.55
41:BG:19:LEU:O	41:BG:22:ARG:N	2.40	0.55
42:BH:43:VAL:CG1	42:BH:52:VAL:CG2	2.83	0.55
47:BP:100:LEU:CD2	47:BP:100:LEU:H	2.20	0.55
49:BR:58:GLY:HA2	49:BR:80:PHE:HE1	1.71	0.55
50:BS:89:ARG:O	50:BS:92:TYR:CB	2.54	0.55
51:BT:107:ASP:H	51:BT:110:ILE:HG13	1.66	0.55
52:BU:12:ARG:HD2	52:BU:13:LYS:NZ	2.22	0.55
53:BV:28:GLU:O	53:BV:61:VAL:CG2	2.55	0.55
53:BV:69:LYS:HA	53:BV:87:HIS:O	2.07	0.55
57:BZ:44:PHE:C	57:BZ:44:PHE:HD1	2.10	0.55
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.37	0.55
1:AA:443:C:H6	1:AA:443:C:O5'	1.89	0.55
1:AA:538:G:H5''	12:AL:114:LYS:CB	2.36	0.55
1:AA:758:G:H4'	1:AA:880:C:H4'	1.89	0.55
1:AA:790:A:N6	1:AA:1498:U:OP1	2.39	0.55
1:AA:896:C:C2'	1:AA:897:C:H5'	2.36	0.55
2:AB:36:ARG:HB3	2:AB:41:ILE:HD11	1.89	0.55
2:AB:57:PHE:O	2:AB:61:LEU:N	2.32	0.55
3:AC:39:ILE:O	3:AC:43:LEU:HG	2.06	0.55
4:AD:12:CYS:SG	4:AD:19:LEU:C	2.84	0.55
5:AE:35:GLY:HA2	5:AE:40:ARG:O	2.07	0.55
8:AH:27:PRO:HG3	8:AH:58:TYR:CE1	2.42	0.55
12:AL:85:ILE:HG22	12:AL:86:ARG:N	2.22	0.55
13:AM:78:ILE:O	13:AM:81:LEU:HB2	2.07	0.55
15:AO:4:THR:O	15:AO:7:GLU:N	2.40	0.55
16:AP:74:LEU:C	16:AP:79:VAL:HG23	2.28	0.55
19:AS:62:ILE:HG23	19:AS:62:ILE:O	2.07	0.55
20:AT:77:ALA:O	20:AT:81:LYS:HG3	2.07	0.55
24:AY:12:LYS:O	24:AY:82:CYS:CB	2.55	0.55
24:AY:194:GLN:HB3	24:AY:202:GLN:HG2	1.89	0.55
28:B3:31:LEU:HD22	28:B3:32:GLN:HG2	1.88	0.55
29:B4:11:PRO:HB3	29:B4:25:TYR:CE2	2.42	0.55
30:B5:47:PRO:HG2	30:B5:48:GLU:OE1	2.07	0.55
35:BA:974:G:P	35:BA:1186:G:H21	2.29	0.55
35:BA:1467:C:C2	35:BA:1468:C:C5	2.95	0.55
35:BA:1683:C:C4	35:BA:1684:C:N4	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1827:C:H2'	35:BA:1828:G:H8	1.72	0.55
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.37	0.55
35:BA:2428:G:H5''	35:BA:2429:G:O5'	2.07	0.55
35:BA:257:A:H2'	35:BA:258:G:H5'	1.89	0.55
35:BA:2684:U:H1'	46:BO:70:LYS:CD	2.33	0.55
35:BA:2699:C:O2'	35:BA:2700:C:H5'	2.07	0.55
35:BA:476:G:N2	35:BA:479:A:C8	2.74	0.55
35:BA:762:U:H5'	35:BA:763:G:N3	2.22	0.55
35:BA:1815:A:P	38:BD:54:ARG:HH22	2.30	0.55
39:BE:116:VAL:HG22	39:BE:122:PHE:CB	2.36	0.55
39:BE:38:THR:C	39:BE:40:GLU:H	2.09	0.55
40:BF:130:ALA:C	40:BF:132:VAL:H	2.10	0.55
41:BG:171:ALA:O	41:BG:174:GLU:HB3	2.06	0.55
45:BN:6:PRO:HG3	52:BU:64:ARG:HH22	1.72	0.55
1:AA:1423:G:H5''	46:BO:49:ARG:CZ	2.36	0.55
46:BO:92:GLU:CG	46:BO:93:PRO:HD2	2.31	0.55
47:BP:62:LEU:N	47:BP:62:LEU:CD2	2.70	0.55
49:BR:103:ARG:O	49:BR:111:LEU:HD13	2.07	0.55
49:BR:76:VAL:CG2	49:BR:80:PHE:CE2	2.86	0.55
50:BS:27:SER:O	50:BS:28:VAL:HG22	2.07	0.55
50:BS:24:LEU:HB3	50:BS:85:VAL:HG12	1.88	0.55
52:BU:93:LYS:H	52:BU:93:LYS:HD2	1.72	0.55
56:BY:28:LYS:HB3	56:BY:37:VAL:HB	1.88	0.55
1:AA:1037:C:O5'	1:AA:1037:C:H6	1.90	0.54
1:AA:1078:U:H5	1:AA:1079:G:C5	2.25	0.54
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.07	0.54
1:AA:186:C:H2'	1:AA:187:C:H6	1.72	0.54
1:AA:441:A:H3'	1:AA:442:C:H6	1.70	0.54
1:AA:881:G:H2'	1:AA:882:C:O4'	2.07	0.54
1:AA:943:U:C2'	1:AA:944:G:H5'	2.37	0.54
6:AF:48:LEU:HD12	6:AF:55:ASP:O	2.06	0.54
13:AM:107:ALA:O	13:AM:108:ARG:HD2	2.07	0.54
14:AN:19:ARG:O	14:AN:20:ALA:O	2.25	0.54
15:AO:33:THR:CG2	15:AO:34:LEU:H	2.20	0.54
19:AS:22:LEU:CD1	19:AS:27:GLU:HB2	2.37	0.54
24:AY:142:ASN:O	24:AY:143:LYS:HB2	2.07	0.54
24:AY:74:VAL:CG1	24:AY:317:PHE:CE2	2.91	0.54
24:AY:424:ALA:O	24:AY:445:GLN:HB2	2.07	0.54
24:AY:487:ARG:O	24:AY:489:ASN:N	2.40	0.54
24:AY:512:ARG:HA	24:AY:515:GLN:CG	2.36	0.54
31:B6:15:GLU:CD	31:B6:18:ARG:CZ	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:11:LYS:CE	35:BA:686:G:N2	2.71	0.54
35:BA:1260:G:O2'	35:BA:1261:C:H5'	2.07	0.54
35:BA:1287:A:O2'	35:BA:1288:U:H5'	2.06	0.54
35:BA:1411:C:H2'	35:BA:1412:A:C8	2.42	0.54
35:BA:151:C:H2'	35:BA:152:G:C8	2.42	0.54
35:BA:1631(A):A:O2'	35:BA:1632:A:H5'	2.06	0.54
35:BA:1632:A:C6	35:BA:1633:G:C6	2.95	0.54
35:BA:1827:C:H5''	35:BA:1971:A:O3'	2.07	0.54
35:BA:2126:A:N6	35:BA:2163:C:C4'	2.70	0.54
35:BA:2184:G:H2'	35:BA:2185:C:O4'	2.06	0.54
35:BA:2312:U:OP1	41:BG:74:LYS:N	2.41	0.54
35:BA:2393:A:C2'	35:BA:2394:C:H6	2.13	0.54
35:BA:570:G:O6	35:BA:2499:C:OP1	2.26	0.54
35:BA:2718:G:H5'	51:BT:100:TYR:CE2	2.40	0.54
35:BA:271(I):G:H2'	35:BA:271(J):C:C6	2.41	0.54
35:BA:2882:A:OP1	49:BR:96:ARG:NE	2.35	0.54
35:BA:385:C:O2'	35:BA:388:G:N2	2.39	0.54
35:BA:481:G:OP2	56:BY:47:LYS:CD	2.54	0.54
35:BA:970:C:H2'	35:BA:971:C:C6	2.41	0.54
39:BE:119:ARG:HG2	39:BE:120:TRP:N	2.22	0.54
41:BG:11:TYR:HD1	41:BG:15:VAL:CB	2.20	0.54
41:BG:64:THR:CG2	41:BG:65:GLY:N	2.70	0.54
41:BG:83:ARG:CZ	41:BG:84:LYS:NZ	2.70	0.54
45:BN:95:PRO:O	45:BN:98:VAL:HG23	2.07	0.54
47:BP:39:LYS:O	47:BP:41:ARG:CG	2.51	0.54
48:BQ:54:MET:O	48:BQ:55:VAL:C	2.45	0.54
48:BQ:79:LEU:O	48:BQ:80:GLU:HB2	2.06	0.54
46:BO:107:ARG:HH11	51:BT:36:GLU:HG3	1.72	0.54
52:BU:80:ILE:HG22	52:BU:80:ILE:O	2.05	0.54
53:BV:68:LYS:HD2	53:BV:69:LYS:H	1.72	0.54
54:BW:5:ALA:N	54:BW:105:VAL:O	2.39	0.54
57:BZ:54:HIS:HB3	57:BZ:101:PRO:HD3	1.89	0.54
1:AA:1040:U:O2'	1:AA:1041:A:H5'	2.07	0.54
1:AA:272:C:C4	1:AA:273:A:N7	2.75	0.54
1:AA:436:C:H2'	1:AA:437:U:H6	1.70	0.54
1:AA:519:C:H2'	1:AA:520:A:O4'	2.07	0.54
1:AA:621:A:C5	1:AA:622:A:N7	2.75	0.54
2:AB:118:LEU:HD11	2:AB:141:GLU:OE2	2.07	0.54
2:AB:16:HIS:HD2	2:AB:209:ARG:C	2.09	0.54
2:AB:69:LEU:HD12	2:AB:71:VAL:HG22	1.89	0.54
5:AE:89:ILE:CG1	5:AE:90:VAL:N	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:107:ALA:HB1	7:AG:123:GLU:OE1	2.07	0.54
8:AH:126:LYS:HG2	8:AH:127:LEU:N	2.22	0.54
9:AI:45:ALA:C	9:AI:47:LEU:H	2.10	0.54
9:AI:57:GLY:O	9:AI:58:ARG:HB3	2.08	0.54
9:AI:70:LYS:HA	9:AI:73:GLN:NE2	2.22	0.54
1:AA:1124:G:O5'	10:AJ:35:SER:HB2	2.06	0.54
10:AJ:78:ASN:ND2	10:AJ:80:LYS:HB3	2.22	0.54
10:AJ:64:GLU:OE1	14:AN:59:ALA:HA	2.07	0.54
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	1.89	0.54
16:AP:58:TYR:HE2	16:AP:59:TRP:CZ3	2.23	0.54
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.08	0.54
18:AR:83:GLU:C	18:AR:84:LYS:NZ	2.61	0.54
21:AU:6:ARG:HG2	21:AU:15:ARG:NH1	2.21	0.54
25:B0:41:ARG:O	25:B0:42:GLY:O	2.24	0.54
28:B3:19:GLN:O	28:B3:22:ALA:HB3	2.08	0.54
35:BA:1260:G:H2'	35:BA:1261:C:H6	1.73	0.54
35:BA:1334:G:O2'	35:BA:1335:U:H5'	2.07	0.54
35:BA:1503:U:O2'	35:BA:1504:C:H5'	2.08	0.54
35:BA:1563:G:C2'	35:BA:1564:C:H5'	2.37	0.54
35:BA:2012:G:H4'	54:BW:96:ILE:HD11	1.90	0.54
35:BA:2108:C:O2	35:BA:2108:C:C2'	2.55	0.54
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.43	0.54
35:BA:2289:G:N2	35:BA:2344:U:C2	2.75	0.54
35:BA:2454:G:H2'	35:BA:2455:G:H8	1.72	0.54
35:BA:2591:C:OP1	38:BD:239:ARG:HG3	2.07	0.54
35:BA:2661:G:O2'	35:BA:2662:A:H5'	2.08	0.54
35:BA:1462:C:C5'	35:BA:2703:C:O4'	2.55	0.54
35:BA:2761:G:H8	35:BA:2761:G:H5'	1.72	0.54
35:BA:2791:C:C5	35:BA:2793:G:O6	2.60	0.54
35:BA:712:G:O2'	35:BA:713:G:H5'	2.06	0.54
36:BB:67:G:O2'	36:BB:68:C:O5'	2.24	0.54
38:BD:209:ALA:O	38:BD:210:GLY:C	2.44	0.54
38:BD:267:SER:HA	38:BD:270:ILE:CG1	2.36	0.54
47:BP:50:ARG:HG2	47:BP:50:ARG:NH1	2.21	0.54
48:BQ:10:ARG:CB	48:BQ:10:ARG:NH1	2.66	0.54
50:BS:63:THR:O	50:BS:65:VAL:N	2.40	0.54
56:BY:90:LEU:O	56:BY:91:GLU:HG2	2.08	0.54
57:BZ:98:MET:O	57:BZ:126:VAL:HG22	2.07	0.54
57:BZ:118:GLN:O	57:BZ:172:ALA:HB1	2.07	0.54
1:AA:1004:A:C3'	1:AA:1005:A:H5'	2.37	0.54
1:AA:1155:G:O2'	1:AA:1156:G:H5'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.42	0.54
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.07	0.54
1:AA:141:A:H4'	1:AA:182:U:H1'	1.89	0.54
1:AA:323:U:H4'	20:AT:22:ARG:HD3	1.87	0.54
1:AA:959:A:H2'	1:AA:960:U:C4'	2.37	0.54
2:AB:16:HIS:HD2	2:AB:210:SER:N	2.05	0.54
2:AB:40:HIS:HB3	2:AB:190:THR:HG21	1.90	0.54
3:AC:109:PRO:C	3:AC:111:LEU:H	2.10	0.54
3:AC:157:ILE:HG21	3:AC:164:ARG:NH2	2.21	0.54
3:AC:58:GLU:N	3:AC:65:ALA:CB	2.67	0.54
4:AD:6:GLY:N	4:AD:115:ARG:HH22	2.05	0.54
5:AE:10:MET:O	5:AE:10:MET:HG2	2.07	0.54
6:AF:33:TYR:CG	6:AF:75:LEU:HD13	2.42	0.54
11:AK:42:TRP:O	11:AK:71:LYS:NZ	2.38	0.54
12:AL:20:LYS:N	12:AL:20:LYS:HD3	2.21	0.54
13:AM:51:ALA:O	13:AM:52:GLU:C	2.46	0.54
15:AO:11:VAL:HG12	15:AO:15:PHE:CE1	2.42	0.54
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.89	0.54
17:AQ:3:LYS:O	17:AQ:60:ILE:CG1	2.45	0.54
17:AQ:46:ASP:OD2	17:AQ:51:TYR:CD2	2.55	0.54
19:AS:16:LEU:N	19:AS:16:LEU:CD1	2.71	0.54
19:AS:42:PRO:HG3	19:AS:67:VAL:HG11	1.90	0.54
24:AY:314:ARG:NH1	24:AY:418:GLN:OE1	2.40	0.54
25:B0:27:GLU:CA	25:B0:67:VAL:O	2.56	0.54
33:B8:17:THR:HG1	33:B8:21:LYS:HB2	1.71	0.54
35:BA:1061:U:H5'	35:BA:1070:A:H1'	1.89	0.54
35:BA:768:G:O2'	35:BA:1379:A:N6	2.40	0.54
35:BA:1791:A:N1	35:BA:1829:A:C4'	2.71	0.54
35:BA:1667:G:C2	35:BA:1991:U:C5	2.95	0.54
35:BA:2139:C:H2'	35:BA:2140:C:C6	2.41	0.54
35:BA:2142:C:H2'	35:BA:2143:C:C6	2.43	0.54
35:BA:2348:U:H5	35:BA:2382:G:N2	2.05	0.54
35:BA:2395:C:C2'	35:BA:2396:G:O5'	2.55	0.54
35:BA:43:A:O2'	35:BA:44:G:H5'	2.07	0.54
35:BA:484:C:O2'	35:BA:485:C:H5'	2.08	0.54
35:BA:682:G:H2'	35:BA:683:C:H6	1.71	0.54
35:BA:77:C:H2'	35:BA:78:A:C8	2.42	0.54
36:BB:101:G:C4	36:BB:102:A:C8	2.96	0.54
38:BD:138:VAL:HG23	38:BD:168:ARG:NE	2.23	0.54
40:BF:3:GLU:C	40:BF:24:LEU:HG	2.28	0.54
43:BJ:16:UNK:O	43:BJ:20:UNK:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:118:LYS:C	45:BN:120:LEU:H	2.11	0.54
45:BN:57:ALA:H	45:BN:124:ALA:HA	1.72	0.54
47:BP:123:LEU:N	47:BP:123:LEU:CD2	2.70	0.54
48:BQ:12:GLN:OE1	48:BQ:73:PRO:HD3	2.07	0.54
49:BR:14:SER:HA	49:BR:17:ARG:CZ	2.34	0.54
49:BR:67:LEU:HD11	49:BR:71:GLN:O	2.06	0.54
50:BS:56:LEU:O	50:BS:56:LEU:CD2	2.53	0.54
50:BS:92:TYR:O	50:BS:93:LYS:CB	2.54	0.54
54:BW:21:VAL:O	54:BW:23:LEU:N	2.40	0.54
54:BW:14:PRO:CG	54:BW:78:GLU:HG3	2.18	0.54
55:BX:35:THR:C	55:BX:37:THR:H	2.11	0.54
1:AA:1049:U:H2'	14:AN:2:ALA:HA	1.88	0.54
1:AA:1072:G:C6	1:AA:1073:U:C4	2.95	0.54
1:AA:1238:A:H2	1:AA:1241:G:N3	2.04	0.54
1:AA:1254:C:H6	1:AA:1254:C:O5'	1.90	0.54
1:AA:1314:C:H2'	1:AA:1315:U:O4'	2.08	0.54
1:AA:289:G:N2	1:AA:312:C:C2	2.75	0.54
1:AA:740:U:HO2'	1:AA:741:G:C5'	2.21	0.54
1:AA:825:G:O2'	1:AA:826:C:H5'	2.07	0.54
6:AF:25:ILE:CG2	6:AF:26:ILE:N	2.70	0.54
10:AJ:43:ARG:O	10:AJ:67:THR:CG2	2.55	0.54
18:AR:55:ARG:HG3	18:AR:55:ARG:NH1	2.22	0.54
20:AT:91:LEU:O	20:AT:93:GLU:N	2.40	0.54
24:AY:114:ASP:O	24:AY:118:GLY:CA	2.53	0.54
24:AY:440:ALA:HA	24:AY:445:GLN:NE2	2.22	0.54
24:AY:508:MET:CA	24:AY:511:LEU:HB3	2.38	0.54
24:AY:86:LEU:HD12	24:AY:88:ASP:H	1.71	0.54
35:BA:1479:G:H2'	35:BA:1480:G:C8	2.42	0.54
35:BA:1705:G:O2'	35:BA:1706:U:H5'	2.07	0.54
35:BA:1882:C:C3'	35:BA:1883:G:H5'	2.38	0.54
35:BA:2146:C:H4'	35:BA:2147:G:N7	2.21	0.54
35:BA:2441:C:H4'	35:BA:2441:C:OP1	2.08	0.54
35:BA:2460:U:H2'	35:BA:2461:C:H5'	1.89	0.54
35:BA:2007:C:O4'	35:BA:2824:C:H4'	2.06	0.54
35:BA:2847:U:C5	35:BA:2848:G:C5	2.95	0.54
35:BA:396:G:C8	35:BA:396:G:O5'	2.60	0.54
35:BA:910:A:H5'	35:BA:911:A:OP2	2.08	0.54
39:BE:63:LEU:O	39:BE:64:LYS:C	2.45	0.54
40:BF:78:ILE:C	40:BF:80:ALA:H	2.10	0.54
35:BA:1107:G:OP1	43:BJ:59:UNK:N	2.39	0.54
47:BP:146:VAL:O	47:BP:147:LEU:C	2.45	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:101:ARG:NH1	48:BQ:102:VAL:O	2.40	0.54
48:BQ:58:PHE:CZ	48:BQ:64:ILE:HD11	2.43	0.54
50:BS:25:ARG:HG2	50:BS:25:ARG:HH11	1.73	0.54
35:BA:2718:G:P	51:BT:100:TYR:HD2	2.30	0.54
53:BV:81:TYR:HE1	53:BV:83:ARG:HH21	1.54	0.54
53:BV:91:TYR:CD1	53:BV:92:THR:N	2.74	0.54
56:BY:13:VAL:O	56:BY:24:VAL:HG13	2.07	0.54
1:AA:1057:G:H2'	1:AA:1058:G:H5'	1.89	0.54
1:AA:18:C:H1'	1:AA:1079:G:N2	2.23	0.54
1:AA:920:U:H1'	1:AA:1080:A:N3	2.22	0.54
1:AA:1100:C:O2	1:AA:1102:A:H5''	2.08	0.54
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.42	0.54
1:AA:109:A:O2'	1:AA:110:C:OP1	2.19	0.54
1:AA:119:A:H4'	1:AA:120:A:O5'	2.07	0.54
1:AA:1266:G:N2	1:AA:1268:A:OP2	2.40	0.54
1:AA:663:A:O2'	1:AA:664:G:H5'	2.07	0.54
1:AA:771:G:H2'	1:AA:772:U:C6	2.43	0.54
1:AA:951:G:O2'	1:AA:952:U:C5'	2.56	0.54
1:AA:981:U:O5'	1:AA:981:U:C6	2.60	0.54
2:AB:219:VAL:HA	2:AB:222:ILE:HG12	1.89	0.54
2:AB:50:GLU:O	2:AB:54:THR:N	2.39	0.54
5:AE:145:LYS:HD2	8:AH:107:LEU:CD2	2.37	0.54
7:AG:65:ALA:HB1	7:AG:124:LEU:HD23	1.90	0.54
7:AG:75:VAL:CG2	7:AG:144:MET:HB3	2.37	0.54
11:AK:21:ILE:HD13	11:AK:94:ALA:HB1	1.89	0.54
11:AK:33:THR:HB	11:AK:38:ASN:C	2.28	0.54
16:AP:67:THR:H	16:AP:70:ALA:CB	2.21	0.54
20:AT:104:LEU:C	20:AT:104:LEU:HD23	2.28	0.54
24:AY:12:LYS:O	24:AY:82:CYS:HB3	2.07	0.54
24:AY:261:GLY:C	24:AY:263:PHE:H	2.11	0.54
24:AY:440:ALA:CB	24:AY:446:PHE:CE1	2.90	0.54
25:B0:37:LEU:HG	25:B0:59:LEU:C	2.27	0.54
32:B7:11:LYS:O	32:B7:13:ALA:N	2.40	0.54
35:BA:1225:G:H2'	35:BA:1226:A:C8	2.42	0.54
35:BA:1714:G:H2'	35:BA:1717:G:O4'	2.07	0.54
35:BA:1720:U:C2'	35:BA:1721:G:C5'	2.77	0.54
35:BA:1851:U:O2'	35:BA:1852:C:H5'	2.07	0.54
35:BA:1903:G:N2	35:BA:1927:A:C2	2.73	0.54
35:BA:1930:G:O2'	35:BA:1968:G:N1	2.32	0.54
35:BA:1947:C:C2'	35:BA:1948:G:C5'	2.58	0.54
35:BA:204:A:C8	35:BA:204:A:OP1	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2208:A:H1'	35:BA:2219:G:C6	2.43	0.54
35:BA:2394:C:OP1	47:BP:63:PRO:CD	2.56	0.54
35:BA:2870:C:H2'	35:BA:2871:C:C5'	2.38	0.54
35:BA:325:G:O2'	35:BA:326:G:H5'	2.07	0.54
35:BA:637:A:N1	35:BA:652:C:H5'	2.23	0.54
35:BA:981:A:H5''	35:BA:982:C:OP2	2.08	0.54
37:BC:58:VAL:O	37:BC:59:ARG:HB2	2.08	0.54
38:BD:66:ASP:OD1	38:BD:103:ARG:NH1	2.40	0.54
38:BD:92:ILE:HB	38:BD:105:ILE:O	2.08	0.54
38:BD:70:TRP:NE1	38:BD:150:LYS:CE	2.70	0.54
38:BD:182:LEU:O	38:BD:271:ILE:HG13	2.08	0.54
46:BO:2:ILE:HB	46:BO:33:ALA:CB	2.22	0.54
47:BP:122:PRO:CB	47:BP:141:ALA:HB3	2.35	0.54
48:BQ:109:VAL:O	48:BQ:110:THR:C	2.44	0.54
50:BS:33:LYS:O	50:BS:34:HIS:HD2	1.91	0.54
51:BT:124:ASP:HB3	51:BT:125:ARG:HH11	1.61	0.54
52:BU:6:THR:CB	52:BU:10:ARG:NH2	2.71	0.54
53:BV:77:ALA:O	53:BV:79:VAL:HG23	2.07	0.54
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.08	0.54
1:AA:1215:G:O2'	1:AA:1216:G:H5'	2.07	0.54
1:AA:66:G:H4'	1:AA:173:U:C5	2.43	0.54
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.08	0.54
1:AA:413:G:H21	1:AA:428:G:H1'	1.72	0.54
1:AA:493:G:H8	1:AA:493:G:O5'	1.89	0.54
1:AA:38:G:H5'	1:AA:547:A:N6	2.23	0.54
1:AA:949:A:C6	1:AA:950:U:C4	2.95	0.54
4:AD:18:LYS:HG3	4:AD:33:MET:CB	2.38	0.54
4:AD:8:VAL:O	4:AD:10:ARG:N	2.40	0.54
1:AA:673:G:H4'	6:AF:87:ARG:HH21	1.73	0.54
7:AG:49:ILE:O	7:AG:52:GLU:N	2.37	0.54
1:AA:600:C:OP1	8:AH:97:VAL:HG12	2.07	0.54
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.07	0.54
10:AJ:12:ASP:C	10:AJ:14:LYS:H	2.11	0.54
10:AJ:7:LYS:HA	10:AJ:70:ARG:O	2.07	0.54
11:AK:37:GLY:C	11:AK:38:ASN:HD22	2.09	0.54
15:AO:12:ILE:O	15:AO:16:ALA:N	2.40	0.54
15:AO:12:ILE:HG23	15:AO:27:VAL:HG13	1.87	0.54
19:AS:15:LEU:HD13	19:AS:19:VAL:CG2	2.38	0.54
20:AT:90:GLN:O	20:AT:91:LEU:HD23	2.06	0.54
24:AY:21:HIS:HD2	24:AY:122:ARG:HB2	1.73	0.54
24:AY:173:ILE:CD1	24:AY:190:THR:HG23	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:8:LYS:HD3	33:B8:11:LYS:CD	2.34	0.54
35:BA:1022:G:C5	35:BA:1140:C:C4	2.95	0.54
35:BA:13:A:C2	35:BA:526:A:C8	2.96	0.54
35:BA:1478:G:H2'	35:BA:1479:G:C8	2.42	0.54
35:BA:1499:C:O2'	35:BA:1500:G:C5'	2.55	0.54
35:BA:1665:A:C3'	35:BA:1666:G:H5''	2.36	0.54
35:BA:2011:U:H2'	35:BA:2012:G:H5'	1.89	0.54
35:BA:203:C:C3'	35:BA:204:A:H5''	2.38	0.54
35:BA:2124:G:H3'	35:BA:2125:G:H8	1.73	0.54
35:BA:2075:U:H2'	35:BA:2238:G:N2	2.23	0.54
35:BA:2563:U:H1'	35:BA:2566:A:C6	2.43	0.54
35:BA:2687:U:C4	35:BA:2688:U:C5	2.95	0.54
35:BA:1638:C:H5''	35:BA:2710:C:O2'	2.08	0.54
35:BA:491:G:N2	35:BA:492:A:H1'	2.23	0.54
35:BA:27:G:H22	35:BA:512:G:H2'	1.71	0.54
25:B0:27:GLU:OE1	35:BA:856:C:H1'	2.07	0.54
35:BA:94(A):G:H2'	35:BA:95:G:C4'	2.38	0.54
37:BC:70:LYS:O	37:BC:71:GLN:O	2.26	0.54
39:BE:33:VAL:HG13	39:BE:69:LYS:HD2	1.89	0.54
40:BF:154:VAL:HG22	40:BF:191:ARG:CB	2.32	0.54
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.28	0.54
47:BP:139:LYS:HG2	47:BP:139:LYS:O	2.08	0.54
47:BP:58:THR:C	47:BP:61:ARG:HE	2.09	0.54
35:BA:958:U:H5''	48:BQ:14:ARG:HH11	1.73	0.54
54:BW:24:ILE:O	54:BW:71:VAL:HG21	2.08	0.54
56:BY:37:VAL:O	56:BY:38:ILE:HD13	2.08	0.54
56:BY:45:VAL:HG11	56:BY:60:PHE:HD2	1.71	0.54
56:BY:46:LYS:CA	56:BY:62:GLU:HG2	2.37	0.54
56:BY:46:LYS:HG2	56:BY:47:LYS:N	2.22	0.54
57:BZ:162:GLU:C	57:BZ:163:LEU:HD23	2.27	0.54
1:AA:132:C:O2'	1:AA:133:U:H5'	2.07	0.54
1:AA:1502:A:N1	1:AA:1504:G:C2	2.75	0.54
1:AA:1501:C:N3	1:AA:1504:G:C6	2.76	0.54
1:AA:123:C:H5''	1:AA:311:C:C2'	2.37	0.54
1:AA:404:U:H5'	4:AD:122:ARG:HE	1.72	0.54
1:AA:906:G:O5'	1:AA:906:G:H8	1.90	0.54
2:AB:87:ARG:NH1	2:AB:219:VAL:HB	2.22	0.54
2:AB:57:PHE:O	2:AB:60:ASP:N	2.39	0.54
3:AC:95:THR:HG22	3:AC:97:LYS:HB2	1.88	0.54
5:AE:89:ILE:HG22	5:AE:134:ALA:HB1	1.90	0.54
5:AE:149:GLU:C	5:AE:151:LEU:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:21:VAL:C	7:AG:23:VAL:H	2.11	0.54
8:AH:109:ILE:HG13	8:AH:110:ALA:N	2.21	0.54
8:AH:73:ASP:OD1	8:AH:75:ARG:NE	2.41	0.54
9:AI:53:VAL:C	9:AI:55:ALA:H	2.10	0.54
10:AJ:4:ILE:CB	10:AJ:74:ILE:HD11	2.37	0.54
11:AK:65:ALA:O	11:AK:68:ALA:N	2.40	0.54
15:AO:65:ARG:HH11	15:AO:65:ARG:HG2	1.71	0.54
17:AQ:58:GLU:O	17:AQ:59:ILE:HG12	2.07	0.54
24:AY:16:PHE:CA	24:AY:106:VAL:HG23	2.34	0.54
24:AY:16:PHE:HA	24:AY:106:VAL:HG21	1.85	0.54
24:AY:227:LEU:HA	24:AY:230:GLU:HB2	1.88	0.54
24:AY:444:LEU:O	24:AY:446:PHE:N	2.41	0.54
24:AY:479:ALA:O	24:AY:482:PHE:HB3	2.07	0.54
28:B3:5:LYS:HE2	28:B3:34:GLU:OE2	2.07	0.54
35:BA:182:A:H2'	35:BA:183:C:H6	1.71	0.54
35:BA:1839:G:N9	35:BA:1927:A:H1'	2.21	0.54
35:BA:1948:G:C2'	35:BA:1949:G:H5'	2.36	0.54
35:BA:2637:U:C2'	35:BA:2638:G:H5'	2.37	0.54
35:BA:2650:U:H2'	35:BA:2651:C:C6	2.43	0.54
35:BA:324:A:C2	35:BA:325:G:H1'	2.42	0.54
35:BA:359:A:H2'	35:BA:360:G:O4'	2.06	0.54
35:BA:49:A:H5''	35:BA:51:G:O4'	2.08	0.54
35:BA:673:C:O2'	35:BA:674:G:H5'	2.08	0.54
37:BC:39:GLU:HG3	37:BC:217:THR:OG1	2.08	0.54
38:BD:80:ALA:CB	38:BD:94:LEU:HD12	2.37	0.54
39:BE:82:ARG:HG3	39:BE:83:ASP:N	2.19	0.54
41:BG:106:LEU:HD12	41:BG:106:LEU:O	2.08	0.54
46:BO:6:THR:CG2	46:BO:7:TYR:N	2.70	0.54
52:BU:107:ALA:O	52:BU:111:GLU:HG2	2.08	0.54
35:BA:2010:G:H4'	54:BW:42:ARG:HB2	1.88	0.54
56:BY:12:THR:HG22	56:BY:13:VAL:N	2.23	0.54
57:BZ:105:VAL:HG22	57:BZ:106:GLY:N	2.23	0.54
1:AA:1337:G:H5''	1:AA:1338:G:OP1	2.07	0.54
1:AA:723:U:H2'	1:AA:723:U:O2	2.06	0.54
1:AA:874:G:O2'	1:AA:875:C:H5'	2.08	0.54
1:AA:928:G:H2'	1:AA:929:G:H8	1.72	0.54
2:AB:14:GLY:HA3	2:AB:16:HIS:HE1	1.72	0.54
2:AB:229:VAL:CG1	2:AB:230:VAL:H	2.21	0.54
3:AC:58:GLU:CB	3:AC:65:ALA:HB2	2.37	0.54
6:AF:77:ARG:HG2	6:AF:77:ARG:HH11	1.73	0.54
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:108:CYS:CA	24:AY:136:PRO:HG2	2.37	0.54
24:AY:16:PHE:CE2	24:AY:86:LEU:HB2	2.43	0.54
24:AY:223:LEU:HD23	24:AY:226:GLN:OE1	2.08	0.54
24:AY:300:VAL:HG13	24:AY:316:ALA:HB1	1.89	0.54
24:AY:78:PRO:HG3	24:AY:350:ALA:HB2	1.88	0.54
24:AY:305:ALA:HA	24:AY:422:GLU:CG	2.38	0.54
24:AY:76:GLN:OE1	24:AY:349:MET:HA	2.07	0.54
26:B1:62:VAL:HG21	26:B1:66:HIS:O	2.07	0.54
35:BA:1061:U:O2'	44:BK:9:UNK:CB	2.56	0.54
35:BA:1094:U:H1'	35:BA:1097:U:C5	2.41	0.54
35:BA:135:G:O2'	35:BA:136:G:H5'	2.08	0.54
35:BA:1411:C:H2'	35:BA:1412:A:H8	1.73	0.54
35:BA:1600:C:C6	35:BA:1600:C:O5'	2.61	0.54
35:BA:1310:G:C4'	35:BA:1611:C:H5''	2.37	0.54
35:BA:1772:G:H2'	35:BA:1773:A:H4'	1.89	0.54
35:BA:1934:C:H2'	35:BA:1935:G:H5'	1.90	0.54
35:BA:2415:G:H4'	47:BP:66:GLY:CA	2.37	0.54
35:BA:2688:U:O4	35:BA:2719:G:H3'	2.08	0.54
35:BA:57:C:C2'	35:BA:58:G:H5'	2.38	0.54
35:BA:955:C:H2'	35:BA:956:G:H5'	1.90	0.54
35:BA:962:G:C2	35:BA:963:U:C1'	2.91	0.54
35:BA:985:C:H6	35:BA:985:C:O5'	1.91	0.54
36:BB:116:G:H2'	36:BB:116:G:N3	2.22	0.54
37:BC:10:LEU:HD11	37:BC:34:THR:OG1	2.08	0.54
38:BD:63:ARG:O	38:BD:64:ILE:C	2.45	0.54
39:BE:102:VAL:HB	39:BE:199:ARG:O	2.08	0.54
39:BE:164:ARG:O	39:BE:165:VAL:CG2	2.55	0.54
40:BF:159:GLY:HA2	40:BF:178:PRO:HD3	1.88	0.54
40:BF:62:ARG:HH11	40:BF:62:ARG:HG2	1.72	0.54
41:BG:163:ALA:HB1	41:BG:168:GLU:CB	2.38	0.54
46:BO:64:ARG:HE	46:BO:101:PRO:HG2	1.72	0.54
47:BP:29:LYS:O	47:BP:30:THR:O	2.26	0.54
47:BP:95:VAL:HG23	47:BP:95:VAL:O	2.06	0.54
48:BQ:27:VAL:HG12	48:BQ:29:PHE:H	1.72	0.54
49:BR:21:TYR:HB3	49:BR:47:PHE:CZ	2.43	0.54
49:BR:67:LEU:CD2	49:BR:76:VAL:HB	2.38	0.54
52:BU:105:VAL:O	52:BU:109:LEU:HG	2.08	0.54
35:BA:2018:G:H21	52:BU:34:LYS:NZ	2.05	0.54
53:BV:12:TYR:CE2	53:BV:22:VAL:HG12	2.41	0.54
53:BV:46:VAL:O	53:BV:46:VAL:HG13	2.08	0.54
53:BV:47:VAL:HG12	53:BV:52:VAL:CB	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:35:ARG:O	57:BZ:37:VAL:HG13	2.08	0.54
1:AA:1202:G:C2	14:AN:42:ILE:HG22	2.42	0.54
1:AA:1204:A:C2'	1:AA:1205:U:H6	2.16	0.54
1:AA:1236:A:P	21:AU:3:LYS:HD2	2.48	0.54
1:AA:1508:G:C2	1:AA:1509:C:C2	2.96	0.54
1:AA:123:C:O2'	1:AA:290:C:O2	2.21	0.54
1:AA:368:U:C6	24:AY:370:HIS:NE2	2.73	0.54
1:AA:447:G:N2	1:AA:486:U:C5	2.76	0.54
1:AA:688:G:O2'	1:AA:689:C:H5'	2.08	0.54
1:AA:756:C:H2'	1:AA:757:U:O4'	2.08	0.54
3:AC:6:HIS:O	3:AC:7:PRO:C	2.44	0.54
4:AD:133:VAL:CG1	4:AD:135:LEU:HD22	2.38	0.54
6:AF:54:LYS:O	6:AF:56:PRO:HD3	2.07	0.54
7:AG:46:ALA:O	7:AG:50:ILE:HG12	2.08	0.54
9:AI:63:ILE:HD13	9:AI:77:ILE:HD13	1.90	0.54
13:AM:56:LEU:HD22	13:AM:60:VAL:CG2	2.38	0.54
13:AM:74:VAL:C	13:AM:76:ALA:N	2.62	0.54
1:AA:730:G:O6	15:AO:51:HIS:CE1	2.61	0.54
16:AP:39:TYR:O	16:AP:41:PRO:HD3	2.08	0.54
24:AY:144:LEU:O	24:AY:179:PHE:CD1	2.60	0.54
24:AY:198:GLY:O	24:AY:262:ASN:ND2	2.37	0.54
24:AY:284:THR:O	24:AY:287:ARG:O	2.25	0.54
24:AY:74:VAL:CG1	24:AY:317:PHE:HE2	2.21	0.54
24:AY:285:ASP:HB3	24:AY:387:PHE:HB3	1.89	0.54
24:AY:402:ARG:O	24:AY:461:ALA:CB	2.54	0.54
24:AY:480:LYS:O	24:AY:480:LYS:HE2	2.08	0.54
24:AY:74:VAL:HA	24:AY:87:LEU:HA	1.89	0.54
25:B0:14:ARG:HB2	35:BA:2279:G:O6	2.08	0.54
35:BA:118:A:OP2	35:BA:119:A:H5''	2.08	0.54
35:BA:1366:A:N6	35:BA:1367:A:C6	2.76	0.54
35:BA:1436:G:N2	35:BA:1557:C:O2	2.40	0.54
35:BA:2092:U:H4'	35:BA:2093:G:C5'	2.32	0.54
31:B6:38:LYS:HD2	35:BA:2344:U:OP1	2.08	0.54
35:BA:2385:C:C2	35:BA:2386:C:C5	2.96	0.54
35:BA:2420:C:H2'	35:BA:2421:G:H8	1.73	0.54
35:BA:2626:C:H2'	35:BA:2627:G:C8	2.43	0.54
35:BA:2689:U:C4'	35:BA:2690:C:H5'	2.38	0.54
35:BA:2741:A:C2'	35:BA:2742:C:H5'	2.37	0.54
35:BA:2791:C:H5	35:BA:2793:G:O6	1.90	0.54
35:BA:2839:G:H4'	49:BR:49:ASP:CB	2.37	0.54
35:BA:55:G:H2'	35:BA:56:A:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:76:ALA:CB	37:BC:153:ILE:HD11	2.35	0.54
35:BA:1799:G:OP1	38:BD:260:ARG:HB2	2.07	0.54
38:BD:97:TYR:O	38:BD:99:ASP:N	2.41	0.54
41:BG:58:GLN:HE22	41:BG:62:LEU:HD13	1.72	0.54
42:BH:129:THR:O	42:BH:131:VAL:HG22	2.08	0.54
42:BH:68:THR:HA	42:BH:71:LEU:CB	2.32	0.54
46:BO:108:GLU:O	46:BO:108:GLU:HG2	2.07	0.54
46:BO:50:GLY:O	46:BO:52:VAL:N	2.41	0.54
46:BO:86:ILE:HG22	46:BO:94:ARG:CG	2.07	0.54
48:BQ:59:ARG:HD2	48:BQ:59:ARG:O	2.08	0.54
49:BR:17:ARG:HH11	49:BR:17:ARG:HB3	1.72	0.54
51:BT:132:LYS:O	51:BT:134:GLU:N	2.36	0.54
51:BT:92:GLY:O	51:BT:94:ALA:N	2.40	0.54
52:BU:17:ILE:N	52:BU:17:ILE:CD1	2.70	0.54
54:BW:1:MET:HG3	54:BW:64:MET:HE3	1.89	0.54
54:BW:88:ARG:NH1	54:BW:88:ARG:CG	2.67	0.54
54:BW:83:LYS:NZ	54:BW:97:LYS:HD3	2.23	0.54
56:BY:14:LEU:N	56:BY:73:ARG:O	2.41	0.54
57:BZ:141:VAL:O	57:BZ:141:VAL:HG12	2.07	0.54
1:AA:1238:A:C2	1:AA:1241:G:N3	2.76	0.54
1:AA:1402:C:H2'	1:AA:1403:C:H6	1.71	0.54
1:AA:293:G:H5'	1:AA:610:G:N2	2.23	0.54
1:AA:64:G:H4'	1:AA:65:U:C5'	2.37	0.54
1:AA:669:U:H2'	1:AA:670:G:C8	2.43	0.54
1:AA:817:C:C4	1:AA:819:A:C1'	2.90	0.54
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	2.08	0.54
2:AB:162:ILE:CG2	2:AB:184:VAL:HA	2.38	0.54
3:AC:148:GLY:O	3:AC:203:PHE:HB3	2.08	0.54
3:AC:48:TYR:O	3:AC:50:ALA:N	2.42	0.54
3:AC:52:LEU:HD12	3:AC:55:VAL:HG21	1.90	0.54
4:AD:164:ALA:O	4:AD:168:ARG:HD3	2.08	0.54
4:AD:30:LYS:O	4:AD:31:CYS:C	2.46	0.54
4:AD:59:ARG:NH1	4:AD:59:ARG:CA	2.71	0.54
6:AF:1:MET:N	6:AF:67:MET:O	2.41	0.54
11:AK:82:VAL:CG1	11:AK:108:ILE:HA	2.38	0.54
12:AL:89:ARG:HD2	12:AL:91:LYS:H	1.73	0.54
13:AM:70:LEU:O	13:AM:73:GLU:CB	2.55	0.54
1:AA:741:G:C5'	15:AO:39:LEU:HD21	2.37	0.54
15:AO:49:ASP:OD1	15:AO:52:SER:N	2.34	0.54
16:AP:17:TYR:HE1	16:AP:41:PRO:HG3	1.73	0.54
20:AT:53:LEU:O	20:AT:56:MET:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1236:A:OP1	21:AU:3:LYS:HG3	2.07	0.54
22:AV:3:C:C4	22:AV:4:G:N7	2.76	0.54
24:AY:215:LEU:HD23	24:AY:216:ASP:N	2.22	0.54
1:AA:55:A:C4	24:AY:311:HIS:CD2	2.96	0.54
24:AY:360:TYR:CB	24:AY:361:PRO:CD	2.86	0.54
31:B6:15:GLU:CG	31:B6:18:ARG:CZ	2.86	0.54
31:B6:52:VAL:CG2	31:B6:53:LYS:N	2.57	0.54
35:BA:1598:C:H5'	55:BX:36:LYS:HG2	1.90	0.54
35:BA:1847:A:H61	35:BA:1893:C:N4	2.06	0.54
35:BA:1859:A:H1'	35:BA:1884:A:C2	2.43	0.54
35:BA:1864:U:H2'	35:BA:1865:G:C8	2.42	0.54
35:BA:1964:G:H4'	35:BA:1965:C:OP2	2.07	0.54
35:BA:352:G:N3	35:BA:352:G:H2'	2.22	0.54
35:BA:705:A:O2'	35:BA:706:A:H5'	2.07	0.54
35:BA:990:A:O5'	35:BA:991:C:OP2	2.25	0.54
37:BC:49:ILE:HG21	37:BC:208:PHE:HE1	1.73	0.54
38:BD:247:ALA:HB2	38:BD:253:GLN:HA	1.86	0.54
38:BD:9:TYR:N	38:BD:9:TYR:CD1	2.72	0.54
35:BA:2578:G:C6	39:BE:140:SER:HB2	2.43	0.54
41:BG:135:LEU:O	41:BG:154:GLY:HA3	2.07	0.54
42:BH:118:PRO:HD2	42:BH:121:ILE:HB	1.89	0.54
45:BN:16:ILE:O	45:BN:54:VAL:HG13	2.08	0.54
47:BP:107:LYS:C	47:BP:109:GLY:H	2.11	0.54
33:B8:12:LYS:O	47:BP:65:ARG:HB2	2.07	0.54
50:BS:97:ARG:NH2	50:BS:98:VAL:CA	2.62	0.54
51:BT:64:ARG:NH1	51:BT:102:ILE:O	2.41	0.54
52:BU:9:VAL:O	52:BU:13:LYS:HG2	2.08	0.54
52:BU:92:ARG:NH1	53:BV:11:GLN:H	2.05	0.54
56:BY:46:LYS:H	56:BY:62:GLU:CG	2.16	0.54
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.08	0.53
1:AA:130:A:H4'	1:AA:189(G):G:C2	2.42	0.53
1:AA:61:G:H2'	1:AA:62:U:C6	2.43	0.53
3:AC:189:ALA:O	3:AC:195:VAL:HA	2.08	0.53
4:AD:123:HIS:N	4:AD:123:HIS:CD2	2.76	0.53
4:AD:199:ASN:ND2	4:AD:202:LEU:HG	2.23	0.53
6:AF:53:ALA:C	6:AF:55:ASP:H	2.11	0.53
6:AF:63:TYR:O	6:AF:64:GLN:HB2	2.08	0.53
10:AJ:16:LEU:CD1	10:AJ:70:ARG:HG3	2.34	0.53
1:AA:880:C:H5	12:AL:9:GLN:NE2	2.06	0.53
17:AQ:67:LYS:HG2	17:AQ:68:ARG:CG	2.37	0.53
18:AR:46:GLU:HA	18:AR:46:GLU:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:27:U:O4'	22:AV:27:U:OP1	2.26	0.53
24:AY:170:THR:OG1	24:AY:182:VAL:HG11	2.08	0.53
24:AY:210:LEU:CD2	24:AY:210:LEU:N	2.71	0.53
24:AY:505:ALA:HB2	24:AY:511:LEU:HD12	1.91	0.53
27:B2:29:LYS:HA	27:B2:32:LEU:HB2	1.90	0.53
28:B3:31:LEU:CD2	28:B3:32:GLN:HG2	2.38	0.53
32:B7:23:ARG:O	32:B7:24:THR:HG22	2.09	0.53
35:BA:1406:U:H2'	35:BA:1407:C:C1'	2.38	0.53
35:BA:1803:A:H3'	35:BA:1804:C:C5	2.43	0.53
35:BA:1927:A:N6	35:BA:1928:A:N1	2.56	0.53
35:BA:2009:G:H5'	54:BW:40:ASN:ND2	2.22	0.53
35:BA:2122:U:C2	35:BA:2123:G:N7	2.76	0.53
35:BA:2187:G:C2'	35:BA:2188:C:H5'	2.33	0.53
35:BA:2311:A:C2'	35:BA:2312:U:C5	2.92	0.53
35:BA:245:G:O3'	47:BP:71:VAL:HG23	2.08	0.53
35:BA:2769:C:H2'	35:BA:2770:G:H8	1.71	0.53
35:BA:2773:C:H2'	35:BA:2774:C:C6	2.44	0.53
35:BA:2801(A):A:H5''	35:BA:2802:G:H5'	1.89	0.53
35:BA:382:G:H2'	35:BA:383:U:H5'	1.87	0.53
35:BA:54:G:OP2	35:BA:54:G:H8	1.90	0.53
35:BA:654(N):G:H2'	35:BA:654(O):G:O4'	2.08	0.53
35:BA:693:C:C1'	35:BA:1354:A:H1'	2.37	0.53
35:BA:940:G:H2'	35:BA:941:A:C4'	2.37	0.53
35:BA:1805:U:H5'	38:BD:250:TRP:CZ3	2.43	0.53
35:BA:1812:A:H2	38:BD:50:THR:HG21	1.72	0.53
39:BE:44:TYR:HD2	39:BE:45:THR:O	1.91	0.53
40:BF:109:GLY:HA2	40:BF:112:MET:CB	2.38	0.53
41:BG:114:ILE:O	41:BG:114:ILE:HG23	2.08	0.53
42:BH:94:TYR:CD1	42:BH:107:VAL:HB	2.43	0.53
46:BO:8:LEU:HD23	46:BO:84:ALA:CB	2.38	0.53
48:BQ:18:LYS:HZ3	48:BQ:18:LYS:HB2	1.73	0.53
48:BQ:50:ALA:O	48:BQ:53:ALA:N	2.40	0.53
50:BS:66:ALA:HA	50:BS:69:VAL:CG1	2.39	0.53
50:BS:92:TYR:O	50:BS:93:LYS:HB3	2.08	0.53
50:BS:97:ARG:C	50:BS:97:ARG:CZ	2.76	0.53
51:BT:133:GLU:HG2	51:BT:133:GLU:O	2.08	0.53
51:BT:65:LYS:HA	51:BT:65:LYS:NZ	2.22	0.53
52:BU:97:ASP:O	52:BU:100:VAL:CB	2.55	0.53
52:BU:66:ASN:C	52:BU:66:ASN:HD22	2.08	0.53
53:BV:18:LEU:CD2	53:BV:19:LYS:H	2.21	0.53
56:BY:3:VAL:O	56:BY:3:VAL:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:904:C:O2'	57:BZ:169:GLU:OE1	2.23	0.53
1:AA:1031:G:O2'	1:AA:1032:G:H5'	2.08	0.53
1:AA:1151:A:H1'	1:AA:1152:A:C8	2.43	0.53
1:AA:1155:G:H2'	1:AA:1156:G:O4'	2.09	0.53
1:AA:895:G:C6	1:AA:904:C:N3	2.77	0.53
1:AA:929:G:H2'	1:AA:930:C:O4'	2.09	0.53
4:AD:155:LEU:O	4:AD:159:ARG:HG2	2.09	0.53
4:AD:52:SER:H	4:AD:55:ALA:HB3	1.73	0.53
6:AF:14:LEU:HD12	6:AF:18:GLN:HB2	1.89	0.53
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.70	0.53
8:AH:30:ARG:CZ	8:AH:30:ARG:HB3	2.37	0.53
8:AH:30:ARG:O	8:AH:33:GLU:HB2	2.09	0.53
14:AN:4:LYS:HZ3	14:AN:4:LYS:HB2	1.72	0.53
15:AO:12:ILE:HG13	15:AO:31:LEU:CD1	2.37	0.53
1:AA:135:C:O2	16:AP:1:MET:HB3	2.07	0.53
16:AP:71:ARG:HG2	16:AP:75:ARG:NH2	2.23	0.53
24:AY:10:VAL:HG13	24:AY:360:TYR:HB2	1.89	0.53
24:AY:246:PHE:CD2	24:AY:247:LEU:CD2	2.91	0.53
24:AY:316:ALA:O	24:AY:317:PHE:C	2.46	0.53
24:AY:430:PRO:C	24:AY:432:SER:H	2.12	0.53
26:B1:4:VAL:O	26:B1:4:VAL:HG13	2.08	0.53
35:BA:1248:G:N1	52:BU:3:ARG:HD2	2.23	0.53
35:BA:141:A:C6	35:BA:142:A:N6	2.76	0.53
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.89	0.53
35:BA:1840:G:N2	35:BA:1902:C:N3	2.52	0.53
35:BA:1982:C:O5'	35:BA:1982:C:H6	1.91	0.53
30:B5:4:HIS:O	35:BA:2056:G:N2	2.41	0.53
35:BA:2230:G:H2'	35:BA:2231:C:C6	2.43	0.53
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.37	0.53
35:BA:2489:G:C8	35:BA:2489:G:O5'	2.53	0.53
35:BA:632:A:H2'	35:BA:633:A:H8	1.73	0.53
37:BC:222:VAL:O	37:BC:224:ILE:N	2.41	0.53
37:BC:96:GLY:O	37:BC:97:GLU:HG2	2.08	0.53
38:BD:124:PRO:CB	38:BD:129:ASN:ND2	2.69	0.53
38:BD:146:GLU:CB	38:BD:152:GLY:O	2.57	0.53
38:BD:33:LEU:CG	38:BD:34:VAL:N	2.72	0.53
38:BD:73:VAL:O	38:BD:75:ILE:CD1	2.56	0.53
39:BE:120:TRP:NE1	39:BE:156:MET:O	2.41	0.53
39:BE:34:VAL:HG11	39:BE:78:LEU:HD21	1.87	0.53
42:BH:122:THR:O	42:BH:123:PHE:CD1	2.62	0.53
45:BN:63:THR:HB	45:BN:66:LYS:CE	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:97:PRO:CA	47:BP:100:LEU:HD23	2.39	0.53
48:BQ:1:MET:HE1	48:BQ:48:GLU:CB	2.35	0.53
48:BQ:90:VAL:HG12	48:BQ:91:GLU:N	2.23	0.53
49:BR:50:HIS:O	49:BR:53:HIS:HB3	2.08	0.53
52:BU:6:THR:O	52:BU:9:VAL:HG22	2.09	0.53
57:BZ:44:PHE:C	57:BZ:44:PHE:CD1	2.81	0.53
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.08	0.53
1:AA:1493:A:C3'	1:AA:1493:A:N3	2.70	0.53
1:AA:1494:G:C4	1:AA:1495:U:C5	2.97	0.53
1:AA:550:G:C5	1:AA:551:U:C5	2.95	0.53
1:AA:693:G:H2'	1:AA:694:A:C8	2.44	0.53
2:AB:131:PRO:O	2:AB:135:GLN:HG3	2.07	0.53
2:AB:15:VAL:N	2:AB:16:HIS:CE1	2.76	0.53
2:AB:51:LEU:O	2:AB:55:PHE:HB2	2.08	0.53
2:AB:97:TRP:CH2	2:AB:176:GLU:CG	2.91	0.53
8:AH:2:LEU:HD11	8:AH:8:ASP:OD2	2.07	0.53
1:AA:1368:G:OP1	9:AI:114:TYR:HB3	2.07	0.53
9:AI:22:GLY:HA3	9:AI:60:ASP:OD2	2.08	0.53
1:AA:280:C:N4	17:AQ:91:ARG:HE	2.07	0.53
24:AY:171:TRP:HB3	24:AY:172:PRO:CD	2.38	0.53
24:AY:170:THR:CB	24:AY:182:VAL:CG1	2.86	0.53
33:B8:2:PRO:O	33:B8:3:LYS:C	2.46	0.53
34:B9:16:VAL:HG12	34:B9:16:VAL:O	2.07	0.53
35:BA:1003:G:N3	35:BA:1010:A:C2	2.76	0.53
35:BA:1144:G:H2'	35:BA:1145:C:C6	2.43	0.53
35:BA:1275:A:N7	49:BR:13:HIS:CE1	2.76	0.53
35:BA:1747:G:C4	35:BA:1747(A):G:C8	2.96	0.53
35:BA:195:A:N7	35:BA:197:A:OP1	2.42	0.53
35:BA:2077:A:H2'	35:BA:2078:C:H6	1.73	0.53
35:BA:2145:C:OP2	35:BA:2146:C:H5	1.92	0.53
35:BA:2393:A:C5	35:BA:2394:C:C5	2.97	0.53
35:BA:28:A:H1'	35:BA:513:A:N1	2.24	0.53
35:BA:706:A:H2'	35:BA:707:G:O4'	2.09	0.53
35:BA:893:C:H2'	35:BA:894:C:C5'	2.39	0.53
36:BB:87:G:H2'	36:BB:88:C:H5"	1.91	0.53
37:BC:40:THR:O	37:BC:216:THR:HG22	2.08	0.53
37:BC:75:LEU:HD12	37:BC:76:ALA:N	2.23	0.53
38:BD:136:ILE:CD1	38:BD:191:ALA:HB3	2.38	0.53
38:BD:263:ARG:CG	38:BD:263:ARG:NH1	2.61	0.53
39:BE:135:HIS:O	39:BE:136:ARG:HG2	2.08	0.53
39:BE:199:ARG:HG2	39:BE:200:GLU:H	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:162:LEU:CD1	40:BF:162:LEU:H	2.18	0.53
49:BR:6:SER:OG	49:BR:8:ARG:NH2	2.36	0.53
50:BS:74:ALA:HB1	50:BS:103:GLU:HG3	1.89	0.53
52:BU:79:PHE:CE1	52:BU:83:LEU:HD11	2.43	0.53
54:BW:20:VAL:O	54:BW:23:LEU:HB3	2.09	0.53
1:AA:1107:C:OP1	3:AC:174:PRO:HG3	2.08	0.53
1:AA:1418:A:C8	1:AA:1419:G:C1'	2.92	0.53
1:AA:1442(A):G:N2	51:BT:121:ILE:O	2.42	0.53
1:AA:186:C:H2'	1:AA:187:C:C6	2.43	0.53
1:AA:280:C:N4	17:AQ:91:ARG:HH21	2.05	0.53
1:AA:796:C:N3	1:AA:797:C:C5	2.76	0.53
2:AB:222:ILE:N	2:AB:222:ILE:HD13	2.24	0.53
1:AA:437:U:H5''	4:AD:155:LEU:HD21	1.90	0.53
8:AH:114:THR:HG22	8:AH:130:GLY:O	2.09	0.53
9:AI:77:ILE:C	9:AI:79:LEU:H	2.12	0.53
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB2	2.38	0.53
10:AJ:54:PHE:CE1	10:AJ:55:LYS:NZ	2.76	0.53
9:AI:114:TYR:HE2	10:AJ:60:ARG:N	2.07	0.53
16:AP:69:THR:HA	16:AP:72:ARG:CB	2.37	0.53
24:AY:269:LEU:O	24:AY:273:VAL:CG2	2.57	0.53
24:AY:79:TYR:CG	24:AY:80:HIS:N	2.76	0.53
25:B0:45:PHE:HD1	25:B0:77:ARG:O	1.92	0.53
35:BA:15:G:H2'	35:BA:16:G:C8	2.44	0.53
35:BA:1827:C:H2'	35:BA:1828:G:C8	2.43	0.53
35:BA:1844:C:C2	35:BA:1845:G:C8	2.96	0.53
30:B5:19:ARG:HG3	35:BA:2046:G:H5'	1.89	0.53
25:B0:36:ILE:HD11	35:BA:2355:C:C1'	2.39	0.53
33:B8:5:LYS:HG2	35:BA:242:G:C8	2.43	0.53
35:BA:2251:G:C8	35:BA:2450:A:H4'	2.44	0.53
35:BA:2447:G:C5	35:BA:2501:C:C2	2.97	0.53
35:BA:2521:C:C2	35:BA:2545:G:C2	2.96	0.53
35:BA:2688:U:H6	35:BA:2721:A:H62	1.55	0.53
35:BA:2872:G:O2'	35:BA:2873:A:H5'	2.09	0.53
35:BA:662:G:C2	35:BA:663:G:N7	2.76	0.53
35:BA:810:U:OP1	35:BA:1253:A:N7	2.42	0.53
38:BD:53:PHE:HE2	38:BD:220:HIS:CE1	2.27	0.53
38:BD:80:ALA:CB	38:BD:96:HIS:CD2	2.90	0.53
40:BF:63:LYS:NZ	40:BF:65:TRP:O	2.41	0.53
40:BF:90:PHE:O	40:BF:91:GLY:O	2.27	0.53
41:BG:142:PRO:C	41:BG:143:GLU:HG2	2.28	0.53
35:BA:2314:C:OP1	41:BG:38:VAL:HG11	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:149:GLU:O	47:BP:150:ALA:HB2	2.08	0.53
49:BR:35:THR:HG23	49:BR:112:ALA:O	2.08	0.53
51:BT:108:ARG:HB3	51:BT:111:ARG:CZ	2.36	0.53
51:BT:28:VAL:CG1	51:BT:46:GLU:HA	2.39	0.53
56:BY:31:LEU:HB2	56:BY:32:PRO:HA	1.90	0.53
1:AA:1165:C:O2'	1:AA:1166:G:H5'	2.08	0.53
1:AA:1290:G:O2'	9:AI:40:LEU:HD21	2.09	0.53
1:AA:1484:C:H4'	35:BA:1961:C:H4'	1.89	0.53
1:AA:273:A:N1	1:AA:274:A:C2	2.76	0.53
1:AA:681:C:H4'	38:BD:174:ILE:CD1	2.38	0.53
1:AA:740:U:OP1	15:AO:38:ARG:HG3	2.09	0.53
1:AA:863:U:C5	1:AA:867:G:N1	2.77	0.53
1:AA:979:C:C2	1:AA:1318:A:N6	2.75	0.53
3:AC:53:ALA:CB	3:AC:114:PRO:HB2	2.38	0.53
7:AG:64:GLN:NE2	7:AG:68:ASN:ND2	2.56	0.53
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.42	0.53
10:AJ:89:ASP:CB	10:AJ:91:PRO:HD3	2.39	0.53
10:AJ:90:LEU:H	10:AJ:91:PRO:CD	2.18	0.53
13:AM:15:VAL:HG13	13:AM:43:THR:O	2.09	0.53
14:AN:12:ARG:NH1	14:AN:14:PRO:CG	2.67	0.53
15:AO:64:ARG:HG2	15:AO:65:ARG:N	2.23	0.53
19:AS:29:ARG:O	19:AS:48:THR:O	2.26	0.53
19:AS:47:HIS:O	19:AS:61:TYR:O	2.27	0.53
24:AY:142:ASN:OD1	58:AY:1000:GCP:O6	2.27	0.53
24:AY:141:MET:O	24:AY:257:GLY:O	2.25	0.53
24:AY:168:PRO:HB3	24:AY:171:TRP:CE2	2.42	0.53
24:AY:207:VAL:O	24:AY:208:LYS:C	2.47	0.53
26:B1:3:LYS:HA	35:BA:1365:A:OP2	2.08	0.53
27:B2:51:ARG:HB2	27:B2:55:ARG:NH1	2.23	0.53
31:B6:19:ARG:O	31:B6:20:ASN:O	2.25	0.53
35:BA:1000:A:C2	35:BA:1155:A:C5	2.97	0.53
35:BA:1087:G:O2'	35:BA:1089:G:H5'	2.09	0.53
35:BA:973:A:H5'	35:BA:1188:U:H1'	1.90	0.53
35:BA:1356:G:O2'	35:BA:1357:U:H5'	2.09	0.53
35:BA:1791:A:C6	35:BA:1829:A:H5'	2.43	0.53
35:BA:185:U:H4'	35:BA:218:A:H4'	1.91	0.53
35:BA:1939:U:O2	35:BA:2592:G:H5'	2.07	0.53
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.43	0.53
35:BA:2756:U:H1'	35:BA:2757:A:H5''	1.90	0.53
35:BA:586:A:H2	35:BA:809:G:N3	2.06	0.53
35:BA:702:G:O2'	35:BA:703:U:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:906:G:O2'	48:BQ:67:ARG:NH1	2.41	0.53
37:BC:30:LYS:HD3	37:BC:185:LEU:CD1	2.38	0.53
37:BC:42:GLU:N	37:BC:215:THR:O	2.39	0.53
37:BC:222:VAL:O	37:BC:224:ILE:HG23	2.09	0.53
38:BD:75:ILE:O	38:BD:118:VAL:CG2	2.57	0.53
38:BD:134:ARG:HG2	38:BD:135:PHE:CD1	2.44	0.53
39:BE:170:LEU:HD21	39:BE:187:ALA:O	2.09	0.53
40:BF:127:GLU:HB2	40:BF:196:LEU:HD12	1.90	0.53
40:BF:37:VAL:HG12	40:BF:38:ARG:N	2.24	0.53
47:BP:88:LEU:HD11	47:BP:95:VAL:HG21	1.91	0.53
48:BQ:55:VAL:O	48:BQ:58:PHE:O	2.27	0.53
49:BR:71:GLN:NE2	49:BR:71:GLN:HA	2.22	0.53
50:BS:17:ARG:O	50:BS:20:ARG:HB2	2.09	0.53
55:BX:41:ASN:O	55:BX:45:THR:OG1	2.27	0.53
56:BY:28:LYS:HG2	56:BY:39:VAL:CA	2.39	0.53
57:BZ:151:HIS:CD2	57:BZ:170:THR:HA	2.43	0.53
57:BZ:151:HIS:HD2	57:BZ:170:THR:HG23	1.73	0.53
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.91	0.53
1:AA:1057:G:C2'	1:AA:1058:G:H5'	2.39	0.53
1:AA:1183:A:HO2'	1:AA:1184:G:P	2.31	0.53
1:AA:1294:G:O2'	1:AA:1295:G:H5'	2.08	0.53
1:AA:179:A:O2'	1:AA:180:U:H5'	2.08	0.53
1:AA:266:G:H5''	1:AA:267:C:C5	2.44	0.53
1:AA:398:C:O2'	1:AA:399:G:H5'	2.09	0.53
1:AA:769:G:H22	1:AA:811:C:H1'	1.73	0.53
1:AA:778:G:C2'	1:AA:779:C:O4'	2.57	0.53
1:AA:973:G:H2'	1:AA:974:A:OP1	2.07	0.53
3:AC:117:ALA:O	3:AC:187:ALA:HB2	2.09	0.53
3:AC:51:GLY:O	3:AC:70:VAL:HG13	2.08	0.53
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.89	0.53
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.70	0.53
13:AM:82:MET:O	13:AM:83:ASP:O	2.26	0.53
17:AQ:26:GLN:HE21	17:AQ:37:LYS:HD3	1.74	0.53
19:AS:23:ASN:CB	29:B4:47:GLN:CG	2.86	0.53
24:AY:103:LEU:CD2	24:AY:109:CYS:SG	2.97	0.53
24:AY:139:THR:HB	24:AY:254:VAL:HA	1.90	0.53
24:AY:139:THR:O	24:AY:255:PHE:N	2.34	0.53
24:AY:169:ILE:C	24:AY:170:THR:HG23	2.29	0.53
24:AY:282:ARG:HG3	24:AY:319:ARG:NH1	2.23	0.53
24:AY:327:LYS:HZ2	24:AY:344:ASP:CB	2.21	0.53
26:B1:76:ARG:HH22	26:B1:95:LEU:CD1	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:35:LEU:HD13	27:B2:35:LEU:C	2.29	0.53
27:B2:54:LYS:O	27:B2:57:ILE:HB	2.09	0.53
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.28	0.53
35:BA:1064:C:C3'	35:BA:1065:U:H5''	2.38	0.53
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.09	0.53
35:BA:130:C:O3'	35:BA:1349:A:H1'	2.08	0.53
35:BA:1744:C:H5''	35:BA:1744:C:H6	1.73	0.53
35:BA:2423:U:H6	35:BA:2423:U:C5'	2.22	0.53
35:BA:252:G:O2'	35:BA:253:C:C5'	2.57	0.53
35:BA:2628:C:OP1	35:BA:2629:A:H5''	2.09	0.53
35:BA:2666:C:C5	35:BA:2667:C:C4	2.96	0.53
35:BA:1297:C:P	35:BA:2710:C:H4'	2.49	0.53
35:BA:2812:G:N2	35:BA:2889:C:C2	2.77	0.53
35:BA:673:C:H6	35:BA:673:C:C5'	2.19	0.53
35:BA:692:C:H2'	35:BA:693:C:C6	2.38	0.53
35:BA:770:G:N3	35:BA:1354:A:C2	2.73	0.53
35:BA:849:A:C8	35:BA:850:C:C5	2.96	0.53
36:BB:57:A:C2	36:BB:58:A:N9	2.77	0.53
37:BC:29:VAL:HG12	37:BC:222:VAL:CG2	2.38	0.53
37:BC:23:ASP:O	37:BC:27:HIS:N	2.41	0.53
37:BC:37:PHE:CE1	37:BC:217:THR:HG21	2.43	0.53
38:BD:169:GLU:O	38:BD:170:GLY:C	2.47	0.53
38:BD:183:ARG:HG3	38:BD:270:ILE:HG23	1.89	0.53
38:BD:201:HIS:O	38:BD:201:HIS:ND1	2.41	0.53
39:BE:138:PRO:CD	39:BE:139:GLY:H	2.21	0.53
39:BE:4:ILE:HG23	39:BE:198:VAL:HB	1.90	0.53
40:BF:195:ASP:CB	40:BF:198:ALA:HB3	2.37	0.53
40:BF:82:ILE:CG1	40:BF:83:PHE:H	2.21	0.53
29:B4:26:SER:HB3	41:BG:105:LYS:HE3	1.91	0.53
41:BG:11:TYR:HA	41:BG:15:VAL:HG23	1.90	0.53
42:BH:66:GLY:CA	42:BH:69:ARG:HB2	2.39	0.53
45:BN:133:GLN:CG	45:BN:135:PRO:HD3	2.24	0.53
47:BP:20:GLY:O	47:BP:21:ARG:HB2	2.09	0.53
48:BQ:56:ARG:O	48:BQ:57:HIS:C	2.47	0.53
56:BY:54:LYS:HE3	56:BY:55:TYR:CD2	2.44	0.53
57:BZ:54:HIS:HA	57:BZ:98:MET:CE	2.38	0.53
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.73	0.53
1:AA:102:G:H2'	1:AA:103:C:H6	1.74	0.53
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.44	0.53
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.23	0.53
1:AA:1253:G:N1	1:AA:1285:A:N6	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1351:U:N3	1:AA:1352:C:H5	2.07	0.53
1:AA:112:G:C4'	1:AA:389:A:H4'	2.37	0.53
1:AA:412:A:C2	4:AD:35:ARG:HG3	2.43	0.53
1:AA:532:A:H2	3:AC:156:ARG:HH22	1.56	0.53
1:AA:77:G:H5'	1:AA:78:G:OP2	2.08	0.53
1:AA:826:C:H1'	8:AH:15:ASN:ND2	2.24	0.53
2:AB:164:VAL:HG12	2:AB:166:ASP:N	2.24	0.53
5:AE:145:LYS:O	5:AE:148:VAL:HB	2.09	0.53
5:AE:150:ARG:O	5:AE:150:ARG:HG2	2.08	0.53
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.09	0.53
16:AP:19:ILE:HD13	16:AP:19:ILE:N	2.24	0.53
1:AA:255:G:H1'	17:AQ:16:GLN:HE22	1.74	0.53
17:AQ:62:SER:HB3	17:AQ:72:ARG:HG3	1.90	0.53
22:AV:48:C:C5'	22:AV:49:G:H5''	2.39	0.53
24:AY:169:ILE:O	24:AY:170:THR:CG2	2.56	0.53
31:B6:7:ILE:HB	31:B6:27:LYS:NZ	2.23	0.53
35:BA:1010:A:H8	35:BA:1010:A:O5'	1.91	0.53
35:BA:1428:C:H2'	35:BA:1569:A:OP1	2.09	0.53
35:BA:1754:C:N4	35:BA:1755:A:N6	2.56	0.53
35:BA:2000:G:H2'	35:BA:2001:A:H8	1.73	0.53
35:BA:2102:U:C5	35:BA:2103:C:C4	2.97	0.53
35:BA:271(Y):U:OP1	35:BA:272(D):G:C5'	2.55	0.53
35:BA:2760:C:C2'	35:BA:2761:G:H5''	2.39	0.53
35:BA:2796:U:O2'	35:BA:2799:C:H5'	2.09	0.53
35:BA:895:U:H3'	35:BA:896:A:H5''	1.90	0.53
35:BA:928:G:H8	35:BA:928:G:O5'	1.92	0.53
37:BC:67:GLY:N	37:BC:188:ASN:HD21	2.06	0.53
37:BC:56:GLN:HG2	37:BC:204:ALA:HB2	1.89	0.53
38:BD:90:ALA:CB	38:BD:106:ILE:CG2	2.86	0.53
42:BH:94:TYR:HD1	42:BH:107:VAL:C	2.11	0.53
45:BN:23:LEU:HB2	45:BN:99:LEU:CD2	2.38	0.53
45:BN:52:VAL:O	45:BN:53:VAL:CG2	2.56	0.53
46:BO:62:VAL:HG12	46:BO:63:VAL:N	2.24	0.53
50:BS:26:LEU:HD23	50:BS:27:SER:O	2.07	0.53
36:BB:50:G:P	50:BS:63:THR:HG23	2.49	0.53
52:BU:95:LEU:CD1	53:BV:4:ILE:HG23	2.37	0.53
56:BY:8:LYS:HE2	56:BY:72:VAL:HG23	1.91	0.53
57:BZ:39:VAL:HB	57:BZ:43:GLU:OE2	2.07	0.53
1:AA:1075:C:C4'	1:AA:1101:A:N6	2.72	0.53
1:AA:1288:A:H1'	1:AA:1353:G:O4'	2.08	0.53
1:AA:979:C:H1'	1:AA:1318:A:N1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1304:G:C1'	1:AA:1334:G:H22	2.21	0.53
1:AA:1375:A:C2	1:AA:1376:U:C2	2.97	0.53
1:AA:431:A:H2'	1:AA:432:A:C8	2.43	0.53
1:AA:762:C:H2'	1:AA:763:G:H8	1.72	0.53
1:AA:909:A:P	12:AL:21:LYS:NZ	2.82	0.53
1:AA:928:G:H8	1:AA:928:G:O5'	1.91	0.53
2:AB:118:LEU:HB3	2:AB:142:LEU:CD1	2.38	0.53
2:AB:46:LYS:O	2:AB:47:THR:C	2.47	0.53
3:AC:179:ARG:HD2	3:AC:207:VAL:HA	1.91	0.53
4:AD:19:LEU:CG	4:AD:21:LEU:HD21	2.38	0.53
4:AD:89:THR:HA	4:AD:92:VAL:CB	2.34	0.53
5:AE:30:ALA:HB3	5:AE:54:ALA:O	2.08	0.53
7:AG:21:VAL:C	7:AG:23:VAL:N	2.62	0.53
1:AA:653:A:O5'	8:AH:56:LYS:HE3	2.09	0.53
8:AH:90:GLY:O	8:AH:91:ARG:HB2	2.07	0.53
10:AJ:91:PRO:C	10:AJ:93:GLY:N	2.59	0.53
11:AK:32:ILE:HD11	11:AK:68:ALA:O	2.08	0.53
1:AA:1047:G:O3'	14:AN:4:LYS:HB3	2.07	0.53
20:AT:25:ARG:O	20:AT:29:LYS:HG3	2.09	0.53
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.91	0.53
22:AV:32:C:C2'	22:AV:33:U:H5''	2.39	0.53
22:AV:64:G:C2	22:AV:65:C:C2	2.97	0.53
24:AY:158:VAL:HG12	24:AY:162:LEU:HB3	1.91	0.53
24:AY:247:LEU:C	24:AY:249:GLY:N	2.61	0.53
24:AY:485:PHE:O	24:AY:489:ASN:O	2.25	0.53
34:B9:35:ARG:NE	34:B9:35:ARG:O	2.42	0.53
35:BA:106:C:H2'	35:BA:107:C:C6	2.44	0.53
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.43	0.53
35:BA:176:G:C2'	35:BA:177:G:H5'	2.38	0.53
35:BA:2120:G:H1	35:BA:2177:C:H42	1.57	0.53
35:BA:2701:C:H2'	35:BA:2702:U:H2'	1.90	0.53
35:BA:2735:G:H2'	35:BA:2736:G:C8	2.41	0.53
35:BA:476:G:O4'	35:BA:505:A:C2	2.62	0.53
35:BA:811:U:H2'	47:BP:24:GLY:O	2.08	0.53
35:BA:818:G:C8	35:BA:818:G:O5'	2.54	0.53
35:BA:874:G:C2	35:BA:875:G:C4	2.97	0.53
35:BA:962:G:C2	35:BA:963:U:N1	2.77	0.53
35:BA:989:G:H5'	35:BA:1157:G:C4'	2.30	0.53
36:BB:54:G:H21	36:BB:55:U:C1'	2.22	0.53
36:BB:93:G:N2	36:BB:94:C:C2	2.77	0.53
37:BC:175:VAL:CG2	37:BC:189:ILE:HG12	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:20:ASP:OD2	38:BD:22:SER:OG	2.19	0.53
38:BD:43:ARG:NH1	38:BD:49:ILE:HD11	2.22	0.53
38:BD:65:ILE:HB	38:BD:67:PHE:CZ	2.44	0.53
38:BD:80:ALA:HB1	38:BD:96:HIS:NE2	2.23	0.53
40:BF:51:THR:O	40:BF:52:LYS:HG3	2.08	0.53
46:BO:66:LYS:HE3	46:BO:80:ASP:HA	1.90	0.53
48:BQ:109:VAL:HG12	48:BQ:113:GLN:HB2	1.91	0.53
55:BX:20:GLY:O	55:BX:25:LYS:O	2.26	0.53
57:BZ:28:MET:O	57:BZ:29:TYR:HB3	2.08	0.53
57:BZ:33:LEU:CD1	57:BZ:34:ASN:N	2.53	0.53
1:AA:101:A:C2'	1:AA:102:G:O5'	2.57	0.53
1:AA:1223:C:OP2	19:AS:78:ARG:NH2	2.41	0.53
1:AA:1367:C:H5'	10:AJ:60:ARG:NH2	2.24	0.53
1:AA:556:C:O2'	1:AA:557:G:H5'	2.08	0.53
2:AB:168:THR:HG23	2:AB:192:SER:HA	1.90	0.53
5:AE:6:PHE:HB2	5:AE:34:VAL:CG2	2.38	0.53
6:AF:10:LEU:O	6:AF:11:ASN:C	2.45	0.53
7:AG:69:VAL:HG11	7:AG:104:LEU:CD2	2.39	0.53
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.44	0.53
12:AL:75:HIS:CG	12:AL:76:ASN:N	2.77	0.53
15:AO:69:TYR:HA	15:AO:72:ARG:HB2	1.90	0.53
16:AP:28:ARG:NH1	16:AP:29:ASP:OD1	2.42	0.53
16:AP:80:PHE:CD1	16:AP:80:PHE:N	2.76	0.53
22:AV:24:U:C2'	22:AV:25:C:H5'	2.38	0.53
24:AY:194:GLN:CB	24:AY:202:GLN:HG2	2.39	0.53
24:AY:391:PRO:O	24:AY:392:ASN:HB3	2.08	0.53
24:AY:515:GLN:HB3	24:AY:523:PHE:CG	2.44	0.53
25:B0:72:ARG:HD3	36:BB:11:C:OP2	2.09	0.53
26:B1:48:LYS:HZ2	26:B1:61:ARG:N	2.06	0.53
26:B1:78:LYS:HG3	26:B1:79:GLY:H	1.74	0.53
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.05	0.53
35:BA:107:C:H2'	35:BA:108:U:C6	2.44	0.53
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.38	0.53
35:BA:1549:C:H6	35:BA:1549:C:H5''	1.74	0.53
35:BA:1332:G:N2	35:BA:1609:A:O2'	2.42	0.53
35:BA:1842:G:C4	35:BA:1901:A:C2	2.97	0.53
35:BA:2030:A:H4'	35:BA:2031:A:C8	2.44	0.53
35:BA:2352:A:H2'	35:BA:2353:G:H5'	1.90	0.53
35:BA:2435:A:C6	35:BA:2436:G:C5	2.97	0.53
35:BA:2574:G:H2'	35:BA:2575:C:C6	2.44	0.53
35:BA:257:A:C2'	35:BA:258:G:H5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2588:G:C6	35:BA:2607:G:C2	2.97	0.53
35:BA:2823:A:H2'	35:BA:2824:C:O4'	2.09	0.53
35:BA:310:A:P	56:BY:18:GLY:HA2	2.49	0.53
35:BA:589:C:H2'	35:BA:590:A:C8	2.36	0.53
35:BA:70:G:H21	35:BA:71:A:H62	1.57	0.53
35:BA:868:U:H6	35:BA:868:U:O5'	1.92	0.53
35:BA:974:G:C6	35:BA:1186:G:C6	2.97	0.53
36:BB:16:G:O2'	36:BB:17:C:H6	1.92	0.53
36:BB:40:U:O2	36:BB:43:C:H5''	2.09	0.53
37:BC:37:PHE:O	37:BC:39:GLU:OE2	2.26	0.53
37:BC:98:GLU:HG3	37:BC:98:GLU:O	2.09	0.53
38:BD:146:GLU:HB2	38:BD:152:GLY:O	2.09	0.53
38:BD:147:LEU:CD1	38:BD:155:LEU:CD1	2.87	0.53
38:BD:87:ASN:CB	38:BD:88:ARG:NH2	2.69	0.53
39:BE:45:THR:HG22	39:BE:46:ALA:N	2.24	0.53
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	2.23	0.53
40:BF:155:LEU:O	40:BF:193:VAL:N	2.38	0.53
41:BG:37:VAL:HG13	41:BG:158:ALA:O	2.08	0.53
43:BJ:100:UNK:CB	43:BJ:132:UNK:CB	2.87	0.53
46:BO:64:ARG:NH1	46:BO:81:ASP:OD2	2.42	0.53
47:BP:111:ARG:HA	47:BP:128:HIS:HD2	1.72	0.53
51:BT:11:GLU:N	51:BT:11:GLU:CD	2.58	0.53
51:BT:13:ARG:HA	51:BT:13:ARG:CZ	2.39	0.53
52:BU:91:ASP:O	52:BU:92:ARG:O	2.26	0.53
27:B2:30:ARG:CZ	55:BX:5:TYR:OH	2.57	0.53
35:BA:483:A:H1'	56:BY:60:PHE:CE1	2.44	0.53
1:AA:1234:C:O4'	1:AA:1364:U:H1'	2.09	0.53
1:AA:1286:A:H1'	1:AA:1287:A:H4'	1.90	0.53
1:AA:1398:A:H61	5:AE:22:GLY:N	2.05	0.53
1:AA:405:U:H5''	1:AA:495:A:C2	2.43	0.53
1:AA:437:U:H5''	4:AD:155:LEU:CD2	2.39	0.53
1:AA:458:C:C2'	1:AA:460:G:H5'	2.39	0.53
1:AA:618:C:H42	1:AA:623:C:N4	2.04	0.53
2:AB:47:THR:C	2:AB:51:LEU:HD12	2.29	0.53
2:AB:71:VAL:N	2:AB:163:PHE:O	2.42	0.53
7:AG:24:THR:CA	7:AG:27:ILE:HB	2.37	0.53
8:AH:2:LEU:HD21	8:AH:8:ASP:HB2	1.91	0.53
12:AL:36:VAL:HB	12:AL:82:VAL:HA	1.91	0.53
15:AO:25:THR:OG1	15:AO:26:GLU:N	2.41	0.53
1:AA:658:G:H5''	15:AO:31:LEU:CD2	2.38	0.53
18:AR:20:ALA:O	18:AR:21:LYS:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:11:VAL:HG23	19:AS:38:SER:CB	2.30	0.53
19:AS:20:LEU:HD22	19:AS:23:ASN:ND2	2.24	0.53
22:AV:17(A):U:HO2'	22:AV:18:G:H4'	1.72	0.53
22:AV:47:U:C3'	22:AV:47:U:O2	2.57	0.53
24:AY:296:PHE:CD2	24:AY:331:LEU:HD21	2.44	0.53
24:AY:412:LEU:C	24:AY:414:LYS:N	2.59	0.53
24:AY:84:VAL:HG12	24:AY:85:ASN:N	2.23	0.53
29:B4:7:PRO:HG2	41:BG:65:GLY:HA2	1.90	0.53
33:B8:28:GLY:C	33:B8:32:LEU:HG	2.30	0.53
35:BA:1953:A:C2	35:BA:2550:G:O4'	2.62	0.53
35:BA:203:C:C5'	35:BA:204:A:H5''	2.39	0.53
35:BA:2345:G:N3	35:BA:2381:C:H2'	2.23	0.53
35:BA:2723:C:O3'	49:BR:2:ARG:NH2	2.41	0.53
35:BA:331:A:N6	35:BA:1209:G:H2'	2.24	0.53
35:BA:496:G:C1'	54:BW:61:ASN:ND2	2.71	0.53
35:BA:515:A:C2'	35:BA:516:C:H5'	2.37	0.53
35:BA:638:G:C6	35:BA:639:U:C4	2.97	0.53
35:BA:650:C:H3'	35:BA:651:G:H5''	1.91	0.53
35:BA:70:G:H2'	35:BA:113:G:O2'	2.08	0.53
35:BA:855:G:N2	35:BA:923:C:O2	2.42	0.53
36:BB:18:G:H2'	36:BB:19:G:H8	1.74	0.53
38:BD:260:ARG:HG2	38:BD:261:LYS:O	2.09	0.53
39:BE:200:GLU:N	39:BE:200:GLU:OE1	2.42	0.53
40:BF:174:VAL:HG12	40:BF:176:LEU:HD11	1.90	0.53
40:BF:64:ILE:CG2	40:BF:65:TRP:N	2.72	0.53
45:BN:56:ASN:H	45:BN:125:GLY:N	2.07	0.53
45:BN:57:ALA:O	45:BN:58:ASP:O	2.27	0.53
35:BA:1665:A:C5'	46:BO:66:LYS:O	2.57	0.53
46:BO:17:ARG:NH2	46:BO:99:PHE:HE2	2.07	0.53
47:BP:89:ALA:HA	47:BP:121:LYS:HD3	1.91	0.53
48:BQ:128:LYS:O	48:BQ:129:THR:HG23	2.08	0.53
48:BQ:48:GLU:CA	48:BQ:51:ARG:HB3	2.38	0.53
52:BU:79:PHE:CE1	52:BU:83:LEU:CD1	2.92	0.53
53:BV:21:ARG:HG2	53:BV:91:TYR:CD2	2.44	0.53
35:BA:1598:C:O3'	55:BX:35:THR:HG23	2.08	0.53
55:BX:24:GLY:H	55:BX:82:GLN:HE22	1.55	0.53
57:BZ:153:SER:HA	57:BZ:155:LEU:HD23	1.90	0.53
1:AA:1005:A:H4'	1:AA:1037:C:O2	2.09	0.52
1:AA:1265:G:H2'	1:AA:1266:G:H8	1.73	0.52
1:AA:1324:A:OP2	1:AA:1324:A:H8	1.92	0.52
1:AA:1505:G:H5''	1:AA:1506:U:OP1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:197:A:N6	1:AA:221:C:C4'	2.67	0.52
1:AA:298:A:H3'	1:AA:299:G:C8	2.44	0.52
1:AA:664:G:N2	1:AA:742:G:N2	2.56	0.52
1:AA:901:A:H2'	1:AA:902:G:H5'	1.91	0.52
1:AA:960:U:C5	19:AS:78:ARG:HD3	2.44	0.52
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.39	0.52
4:AD:59:ARG:CG	4:AD:59:ARG:HH11	2.22	0.52
5:AE:24:ARG:CG	5:AE:24:ARG:HH11	2.21	0.52
19:AS:49:ILE:O	19:AS:60:VAL:HG12	2.09	0.52
19:AS:72:GLY:O	19:AS:74:PHE:N	2.42	0.52
20:AT:50:GLU:O	20:AT:53:LEU:N	2.42	0.52
24:AY:144:LEU:O	24:AY:179:PHE:CG	2.61	0.52
24:AY:216:ASP:HA	24:AY:224:ALA:HB2	1.86	0.52
24:AY:508:MET:C	24:AY:511:LEU:HB3	2.29	0.52
26:B1:29:GLY:O	26:B1:31:GLY:N	2.40	0.52
26:B1:44:PRO:HA	35:BA:396:G:O3'	2.09	0.52
26:B1:54:ALA:CB	26:B1:56:GLN:HE21	2.21	0.52
27:B2:56:GLN:O	27:B2:59:ARG:HG3	2.08	0.52
28:B3:5:LYS:HD2	28:B3:57:GLU:OE1	2.09	0.52
29:B4:5:ILE:N	29:B4:5:ILE:HD13	2.23	0.52
31:B6:11:LEU:HD13	31:B6:12:GLU:N	2.24	0.52
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.24	0.52
35:BA:1651:G:H2'	35:BA:1652:A:C8	2.44	0.52
35:BA:1832:C:C4	35:BA:1833:U:C5	2.96	0.52
35:BA:1839:G:H5'	35:BA:1839:G:H8	1.74	0.52
35:BA:1930:G:HO2'	35:BA:1968:G:H1	1.38	0.52
35:BA:1991:U:C6	35:BA:1991:U:H5''	2.44	0.52
35:BA:2189:U:H2'	35:BA:2190:G:H4'	1.91	0.52
35:BA:2271:G:O2'	35:BA:2272:U:H5'	2.09	0.52
35:BA:2262:U:C4'	35:BA:2328:A:C2	2.86	0.52
35:BA:2374:C:H2'	35:BA:2375:G:O4'	2.09	0.52
35:BA:2603:G:H21	35:BA:2604:U:H1'	1.74	0.52
35:BA:2850:A:C2	49:BR:61:HIS:CD2	2.98	0.52
35:BA:716:A:H2'	35:BA:717:G:O5'	2.09	0.52
35:BA:820:A:N3	35:BA:943:U:O2'	2.37	0.52
35:BA:983:A:H2'	35:BA:984:A:O4'	2.09	0.52
36:BB:66:A:C6	36:BB:108:U:C4	2.97	0.52
38:BD:246:PRO:O	38:BD:247:ALA:HB2	2.09	0.52
38:BD:2:ALA:C	38:BD:3:VAL:CG2	2.77	0.52
38:BD:87:ASN:ND2	38:BD:88:ARG:CZ	2.71	0.52
39:BE:45:THR:CG2	39:BE:46:ALA:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:141:ALA:C	40:BF:143:ALA:H	2.10	0.52
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.91	0.52
41:BG:101:ILE:O	41:BG:104:GLU:HB3	2.08	0.52
41:BG:111:LEU:H	41:BG:112:PRO:HD2	1.73	0.52
41:BG:120:LEU:HD12	41:BG:179:PRO:HD2	1.91	0.52
42:BH:126:PRO:O	42:BH:127:GLU:CB	2.56	0.52
45:BN:6:PRO:O	45:BN:9:VAL:CG2	2.58	0.52
49:BR:2:ARG:HG3	49:BR:2:ARG:NH1	2.22	0.52
51:BT:120:ARG:O	51:BT:123:GLN:HG2	2.08	0.52
53:BV:31:ALA:O	53:BV:61:VAL:CG2	2.54	0.52
35:BA:85:G:O5'	56:BY:30:VAL:HB	2.08	0.52
1:AA:1188:A:O5'	1:AA:1188:A:H8	1.91	0.52
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.72	0.52
1:AA:1254:C:H5'	1:AA:1356:G:H4'	1.91	0.52
1:AA:1494:G:C5	1:AA:1495:U:C5	2.97	0.52
1:AA:15:G:C5	1:AA:16:A:N7	2.78	0.52
1:AA:357:G:OP1	1:AA:367:U:H5''	2.09	0.52
1:AA:518:C:C5	1:AA:530:G:C8	2.98	0.52
1:AA:868:C:O2'	1:AA:869:G:H5'	2.08	0.52
2:AB:11:LEU:O	2:AB:16:HIS:CE1	2.62	0.52
2:AB:80:ILE:N	2:AB:80:ILE:HD12	2.16	0.52
3:AC:70:VAL:C	3:AC:106:VAL:HG23	2.30	0.52
10:AJ:58:ASP:OD1	10:AJ:58:ASP:N	2.42	0.52
12:AL:90:VAL:O	12:AL:92:ASP:N	2.42	0.52
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.24	0.52
13:AM:54:VAL:HG12	13:AM:58:GLU:CD	2.30	0.52
15:AO:82:ILE:CG2	15:AO:83:GLU:N	2.72	0.52
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	2.09	0.52
17:AQ:69:LYS:C	17:AQ:70:ARG:HD2	2.29	0.52
20:AT:14:LYS:O	20:AT:16:HIS:N	2.42	0.52
22:AV:15:G:H3'	22:AV:16:C:H5''	1.91	0.52
22:AV:59:A:O2'	22:AV:60:U:H5'	2.08	0.52
24:AY:305:ALA:HA	24:AY:422:GLU:CD	2.29	0.52
24:AY:310:LYS:HB2	24:AY:311:HIS:CD2	2.45	0.52
24:AY:380:THR:CG2	24:AY:383:GLU:HB2	2.39	0.52
25:B0:27:GLU:HG3	25:B0:69:PHE:CD1	2.44	0.52
31:B6:25:LYS:HZ3	35:BA:2285:C:H41	1.56	0.52
32:B7:11:LYS:HE2	35:BA:686:G:H5''	1.91	0.52
33:B8:36:LYS:O	33:B8:37:SER:O	2.27	0.52
35:BA:1223:G:N2	35:BA:1226:A:OP2	2.42	0.52
35:BA:151:C:H2'	35:BA:152:G:H8	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1683:C:H2'	35:BA:1684:C:H6	1.72	0.52
35:BA:1827:C:OP1	35:BA:1971:A:O2'	2.20	0.52
35:BA:2153:G:C2	35:BA:2154:G:H1'	2.43	0.52
35:BA:2133:G:H1'	35:BA:2158:A:H61	1.73	0.52
24:AY:260:LEU:CD2	35:BA:2655:G:H5''	2.39	0.52
35:BA:2822:G:O6	49:BR:4:LEU:HD23	2.08	0.52
35:BA:621:A:C2'	35:BA:622:G:H5'	2.32	0.52
35:BA:654(M):C:C2'	35:BA:654(N):G:C8	2.89	0.52
35:BA:729:G:H1'	35:BA:763:G:O3'	2.09	0.52
35:BA:880:G:H2'	35:BA:881:G:C8	2.44	0.52
36:BB:115:G:N3	36:BB:116:G:C8	2.77	0.52
37:BC:68:LEU:CD2	37:BC:174:PRO:HB2	2.39	0.52
37:BC:29:VAL:HG12	37:BC:32:LEU:HD12	1.92	0.52
38:BD:125:ILE:CD1	38:BD:137:PRO:HD3	2.34	0.52
35:BA:2590:A:O3'	38:BD:239:ARG:HG3	2.09	0.52
39:BE:27:LEU:HD13	39:BE:180:ASN:O	2.09	0.52
40:BF:203:GLN:C	40:BF:205:ARG:N	2.62	0.52
41:BG:128:ARG:O	41:BG:129:GLY:O	2.26	0.52
46:BO:10:VAL:HG22	46:BO:17:ARG:HA	1.91	0.52
47:BP:23:PRO:HB2	47:BP:33:ARG:HG3	1.91	0.52
48:BQ:20:ALA:H	57:BZ:79:ARG:HH21	1.58	0.52
49:BR:29:LEU:CD2	49:BR:52:ILE:HD11	2.39	0.52
52:BU:29:SER:O	52:BU:30:LYS:HD3	2.09	0.52
53:BV:21:ARG:HA	53:BV:92:THR:O	2.09	0.52
53:BV:38:LEU:C	53:BV:39:LEU:HD22	2.30	0.52
35:BA:482:A:H4'	56:BY:47:LYS:CG	2.40	0.52
57:BZ:10:ARG:HB3	57:BZ:36:LYS:C	2.29	0.52
57:BZ:48:PHE:HZ	57:BZ:74:VAL:HG21	1.74	0.52
1:AA:1078:U:C5	1:AA:1079:G:C5	2.97	0.52
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.44	0.52
1:AA:1117:G:N2	1:AA:1184:G:C4	2.77	0.52
1:AA:1127:G:H1	1:AA:1145:C:H42	1.58	0.52
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.37	0.52
1:AA:1516:G:N1	1:AA:1519:A:OP2	2.41	0.52
1:AA:381:C:H2'	1:AA:382:A:H8	1.71	0.52
1:AA:992:U:O2'	1:AA:993:G:P	2.67	0.52
2:AB:103:THR:OG1	2:AB:104:ASN:N	2.43	0.52
6:AF:13:ASN:O	6:AF:14:LEU:HD22	2.10	0.52
10:AJ:18:ALA:C	10:AJ:20:ALA:H	2.13	0.52
17:AQ:56:VAL:O	17:AQ:57:VAL:HG12	2.08	0.52
17:AQ:59:ILE:HG22	17:AQ:60:ILE:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:73:HIS:CB	20:AT:74:LYS:HD3	2.39	0.52
22:AV:68:C:O2	22:AV:68:C:H2'	2.08	0.52
24:AY:196:GLY:O	24:AY:197:LYS:CG	2.52	0.52
27:B2:29:LYS:O	27:B2:32:LEU:HB3	2.10	0.52
31:B6:6:ARG:NH1	31:B6:6:ARG:HB3	2.24	0.52
33:B8:49:VAL:HB	33:B8:53:PRO:HD3	1.92	0.52
35:BA:1151:G:N2	35:BA:1152:C:O2	2.42	0.52
35:BA:1184:G:O2'	35:BA:1185:C:H5'	2.09	0.52
35:BA:1202:C:C2'	35:BA:1203:G:H5'	2.39	0.52
35:BA:1248:G:OP1	35:BA:1248:G:H8	1.92	0.52
35:BA:1351:C:H2'	35:BA:1352:U:C6	2.43	0.52
35:BA:1485:G:O2'	35:BA:1486:A:H5'	2.09	0.52
35:BA:2244:U:H1'	35:BA:2434:A:C4	2.45	0.52
35:BA:2291:U:OP1	35:BA:2381:C:H5'	2.09	0.52
35:BA:2338:G:O5'	35:BA:2338:G:C8	2.62	0.52
35:BA:2459:A:C8	35:BA:2460:U:C5	2.97	0.52
35:BA:2648:C:H2'	35:BA:2649:U:H6	1.71	0.52
35:BA:2822:G:O2'	35:BA:2823:A:O5'	2.26	0.52
35:BA:289:A:H2'	35:BA:290:G:C8	2.44	0.52
35:BA:474:G:C6	35:BA:510:C:N4	2.77	0.52
35:BA:580:C:H2'	35:BA:581:C:C6	2.44	0.52
35:BA:653:A:H2'	35:BA:653:A:N3	2.23	0.52
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.09	0.52
35:BA:718:A:H2'	35:BA:719:C:H5'	1.90	0.52
35:BA:963:U:H2'	35:BA:964:C:H6	1.73	0.52
37:BC:100:ILE:CG2	37:BC:126:LYS:HE3	2.39	0.52
38:BD:147:LEU:CD1	38:BD:155:LEU:HD13	2.40	0.52
35:BA:2222:G:O4'	38:BD:149:PRO:CG	2.56	0.52
38:BD:169:GLU:HG2	38:BD:169:GLU:O	2.07	0.52
38:BD:85:ASP:OD1	38:BD:88:ARG:CD	2.34	0.52
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	1.92	0.52
39:BE:82:ARG:O	39:BE:84:PHE:N	2.42	0.52
40:BF:109:GLY:HA2	40:BF:112:MET:HB3	1.90	0.52
41:BG:133:LEU:CD1	41:BG:157:ILE:HB	2.39	0.52
41:BG:166:ASP:O	41:BG:167:GLU:C	2.46	0.52
41:BG:180:PHE:C	41:BG:182:LYS:N	2.62	0.52
41:BG:16:ARG:NH1	41:BG:28:VAL:CG1	2.73	0.52
29:B4:7:PRO:HD3	41:BG:67:LYS:HE3	1.92	0.52
45:BN:24:GLY:C	45:BN:26:LEU:H	2.12	0.52
45:BN:75:TYR:HA	45:BN:82:LEU:HA	1.90	0.52
45:BN:68:GLU:HA	45:BN:86:PRO:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:100:GLY:O	46:BO:119:PRO:HD2	2.09	0.52
48:BQ:125:LEU:CD2	48:BQ:125:LEU:H	2.22	0.52
51:BT:128:GLU:C	51:BT:128:GLU:CD	2.68	0.52
51:BT:50:ILE:HA	51:BT:99:LEU:HD12	1.92	0.52
52:BU:115:ALA:C	52:BU:117:GLN:N	2.59	0.52
55:BX:10:ALA:HB1	55:BX:11:PRO:HD2	1.91	0.52
57:BZ:154:ASP:N	57:BZ:154:ASP:OD1	2.42	0.52
1:AA:1091:U:O2	1:AA:1095:U:C2	2.62	0.52
1:AA:1169:A:O5'	1:AA:1169:A:H8	1.92	0.52
1:AA:1192:C:H2'	1:AA:1193:G:O4'	2.09	0.52
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.73	0.52
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.41	0.52
1:AA:22:G:H5'	1:AA:885:G:O4'	2.09	0.52
1:AA:575:G:C4'	1:AA:576:G:O5'	2.55	0.52
1:AA:8:A:N6	4:AD:209:ARG:OXT	2.43	0.52
1:AA:918:A:C5	1:AA:919:A:C5	2.98	0.52
2:AB:194:PRO:O	2:AB:196:LEU:N	2.43	0.52
2:AB:200:ILE:HD12	2:AB:200:ILE:N	2.25	0.52
1:AA:1191:A:OP1	3:AC:4:LYS:NZ	2.41	0.52
1:AA:436:C:O2'	4:AD:157:LEU:HD11	2.09	0.52
12:AL:75:HIS:CD2	12:AL:77:LEU:H	2.27	0.52
13:AM:13:LYS:O	13:AM:14:ARG:C	2.48	0.52
13:AM:73:GLU:OE1	13:AM:73:GLU:O	2.27	0.52
19:AS:43:GLU:O	19:AS:45:VAL:N	2.42	0.52
20:AT:74:LYS:CG	20:AT:75:ASN:H	2.22	0.52
22:AV:49:G:N2	22:AV:50:U:C1'	2.72	0.52
24:AY:171:TRP:O	24:AY:182:VAL:HG13	2.08	0.52
24:AY:169:ILE:O	24:AY:185:LEU:N	2.43	0.52
24:AY:413:LEU:O	24:AY:417:VAL:CG2	2.57	0.52
24:AY:483:GLU:HA	24:AY:486:LYS:HE3	1.91	0.52
26:B1:46:LEU:HD13	26:B1:62:VAL:O	2.09	0.52
27:B2:16:LEU:O	27:B2:21:LEU:HG	2.08	0.52
29:B4:9:LEU:HD13	29:B4:26:SER:O	2.09	0.52
35:BA:1053:C:O2'	35:BA:1054:A:H5'	2.09	0.52
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.44	0.52
35:BA:1417:C:C2'	35:BA:1418:G:H5'	2.39	0.52
35:BA:1441:G:H4'	35:BA:1628:G:OP1	2.09	0.52
35:BA:1892:C:C3'	35:BA:1893:C:C5'	2.87	0.52
35:BA:2305:A:C2'	35:BA:2306:C:O5'	2.58	0.52
35:BA:2366:A:N7	35:BA:2367:G:C5	2.77	0.52
35:BA:2734:A:H62	35:BA:2770:G:N2	2.06	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2833:G:C3'	35:BA:2834:G:C5'	2.72	0.52
35:BA:467:G:H2'	35:BA:468:G:H8	1.74	0.52
35:BA:886:C:C2	35:BA:887:A:C8	2.97	0.52
36:BB:93:G:O2'	36:BB:94:C:H5'	2.10	0.52
37:BC:175:VAL:HG13	37:BC:188:ASN:HB2	1.90	0.52
38:BD:169:GLU:OE1	38:BD:184:LYS:CD	2.53	0.52
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.44	0.52
39:BE:120:TRP:O	39:BE:121:ASN:CB	2.58	0.52
39:BE:198:VAL:CG1	39:BE:199:ARG:H	2.21	0.52
44:BK:30:UNK:O	44:BK:31:UNK:CB	2.57	0.52
45:BN:68:GLU:H	45:BN:87:LEU:HB3	1.75	0.52
48:BQ:31:ASP:C	48:BQ:32:TYR:CD1	2.83	0.52
49:BR:43:GLU:OE1	49:BR:43:GLU:HA	2.09	0.52
54:BW:107:LEU:H	54:BW:107:LEU:HD12	1.73	0.52
56:BY:86:ARG:HB3	56:BY:88:LYS:CE	2.36	0.52
1:AA:1243:C:H2'	1:AA:1244:C:C6	2.45	0.52
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.91	0.52
1:AA:1406:U:O2	1:AA:1518:A:C1'	2.55	0.52
1:AA:1506:U:O4	1:AA:1521:G:H5''	2.10	0.52
1:AA:502:G:O5'	1:AA:502:G:H8	1.93	0.52
1:AA:787:A:H2'	1:AA:788:U:H5'	1.91	0.52
2:AB:170:GLU:C	2:AB:172:ILE:H	2.13	0.52
2:AB:219:VAL:O	2:AB:222:ILE:HG12	2.10	0.52
3:AC:71:ALA:O	3:AC:73:PRO:CD	2.57	0.52
4:AD:15:GLU:OE1	4:AD:59:ARG:NE	2.43	0.52
6:AF:45:LEU:CD1	6:AF:59:TYR:HD1	2.23	0.52
7:AG:104:LEU:O	7:AG:107:ALA:CB	2.58	0.52
8:AH:40:ALA:HA	8:AH:45:ILE:HG13	1.90	0.52
9:AI:52:ALA:CB	9:AI:95:LYS:NZ	2.73	0.52
10:AJ:52:GLY:O	14:AN:41:ARG:NH2	2.33	0.52
12:AL:45:PRO:CG	12:AL:51:ALA:HB3	2.29	0.52
12:AL:55:VAL:HG22	12:AL:56:ALA:N	2.24	0.52
15:AO:12:ILE:HD11	15:AO:31:LEU:HD21	1.91	0.52
1:AA:754:C:C4'	15:AO:72:ARG:NH1	2.66	0.52
15:AO:5:LYS:HG2	15:AO:8:LYS:HD2	1.91	0.52
18:AR:50:ILE:HD11	18:AR:70:ILE:HG21	1.90	0.52
19:AS:75:ALA:O	19:AS:76:PRO:O	2.28	0.52
20:AT:73:HIS:ND1	20:AT:74:LYS:HD3	2.24	0.52
24:AY:222:ASP:O	24:AY:226:GLN:N	2.42	0.52
24:AY:29:ILE:HG12	24:AY:259:ALA:HB3	1.90	0.52
24:AY:78:PRO:HB2	24:AY:83:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:56:ASP:O	25:B0:57:PHE:HB2	2.08	0.52
26:B1:45:ASN:ND2	35:BA:2230:G:H1'	2.24	0.52
27:B2:41:ILE:CG1	27:B2:42:GLY:N	2.72	0.52
34:B9:10:ILE:HD13	34:B9:32:HIS:HB3	1.91	0.52
35:BA:1543:C:O5'	35:BA:1543:C:H6	1.93	0.52
35:BA:1951:U:O2	35:BA:1954:G:C8	2.62	0.52
35:BA:2128:C:O2'	35:BA:2129:C:H5'	2.10	0.52
35:BA:2275:C:H5'	35:BA:2275:C:C6	2.45	0.52
35:BA:2386:C:H2'	35:BA:2387:U:C6	2.45	0.52
35:BA:237:C:O2'	35:BA:238:C:H5'	2.09	0.52
35:BA:2684:U:O2'	46:BO:68:GLU:HG3	2.09	0.52
35:BA:321:G:OP1	40:BF:135:LYS:HD2	2.10	0.52
35:BA:433:C:C2	35:BA:434:U:C5	2.97	0.52
32:B7:12:ARG:HA	35:BA:686:G:O6	2.10	0.52
35:BA:886:C:HO2'	35:BA:887:A:P	2.32	0.52
35:BA:906:G:C6	35:BA:907:U:C5	2.97	0.52
35:BA:946:G:C2'	35:BA:947:G:H5'	2.40	0.52
27:B2:2:LYS:N	35:BA:98:G:P	2.83	0.52
36:BB:111:G:H2'	36:BB:112:U:H5'	1.91	0.52
37:BC:201:PRO:HD2	37:BC:208:PHE:CE1	2.44	0.52
37:BC:47:LEU:HD23	37:BC:208:PHE:CE1	2.42	0.52
38:BD:120:GLY:O	38:BD:123:ALA:HB2	2.08	0.52
38:BD:108:PRO:HG3	38:BD:143:HIS:NE2	2.25	0.52
35:BA:1799:G:O6	38:BD:179:SER:CB	2.57	0.52
35:BA:1570:A:O4'	38:BD:38:LYS:HD3	2.09	0.52
38:BD:80:ALA:HB3	38:BD:94:LEU:CD1	2.40	0.52
39:BE:117:MET:H	39:BE:122:PHE:HB2	1.73	0.52
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.91	0.52
40:BF:124:LEU:O	40:BF:193:VAL:HA	2.10	0.52
40:BF:97:TYR:O	40:BF:98:SER:O	2.26	0.52
41:BG:175:LEU:O	41:BG:176:LEU:HB2	2.09	0.52
46:BO:113:LYS:HB3	46:BO:113:LYS:NZ	2.24	0.52
50:BS:28:VAL:CG1	50:BS:29:PHE:H	2.08	0.52
51:BT:65:LYS:CE	51:BT:66:VAL:H	2.22	0.52
52:BU:65:ILE:HG23	52:BU:106:PHE:HZ	1.75	0.52
52:BU:92:ARG:C	52:BU:94:ASN:N	2.62	0.52
52:BU:92:ARG:CB	53:BV:11:GLN:NE2	2.72	0.52
53:BV:72:VAL:O	53:BV:85:LYS:HB2	2.10	0.52
56:BY:95:LYS:HA	56:BY:101:LYS:CA	2.40	0.52
1:AA:1055:A:C5	1:AA:1206:G:C2	2.98	0.52
1:AA:1179:A:C2'	1:AA:1180:A:O5'	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:945:G:C2	1:AA:1337:G:N2	2.77	0.52
1:AA:246:A:O3'	1:AA:247:G:C4'	2.58	0.52
1:AA:52:G:N2	1:AA:360:A:H1'	2.24	0.52
1:AA:547:A:O2'	1:AA:548:G:OP2	2.28	0.52
1:AA:652:U:O4	1:AA:752:G:O2'	2.23	0.52
1:AA:691:G:H2'	1:AA:692:U:C6	2.44	0.52
1:AA:753:A:O4'	1:AA:754:C:N3	2.42	0.52
1:AA:841:U:O2'	1:AA:848:C:H5'	2.10	0.52
1:AA:907:A:C5	1:AA:908:A:N7	2.78	0.52
2:AB:79:ASP:OD1	2:AB:79:ASP:N	2.42	0.52
3:AC:113:ALA:N	3:AC:202:ILE:HD12	2.25	0.52
4:AD:100:ARG:HB3	4:AD:103:ASN:CB	2.40	0.52
4:AD:159:ARG:CG	4:AD:159:ARG:HH11	2.22	0.52
5:AE:94:ALA:HB1	5:AE:98:THR:CB	2.39	0.52
6:AF:22:GLU:O	6:AF:26:ILE:HB	2.09	0.52
8:AH:106:GLY:C	8:AH:108:GLY:H	2.13	0.52
8:AH:33:GLU:O	8:AH:34:GLU:C	2.48	0.52
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.92	0.52
12:AL:43:VAL:O	12:AL:53:ARG:N	2.42	0.52
20:AT:61:SER:OG	20:AT:62:LEU:N	2.38	0.52
20:AT:53:LEU:HD11	20:AT:92:LEU:CD1	2.39	0.52
24:AY:121:ASP:O	24:AY:125:LYS:HB2	2.10	0.52
24:AY:135:THR:O	24:AY:137:ILE:CG1	2.57	0.52
24:AY:194:GLN:HB2	24:AY:202:GLN:CB	2.40	0.52
24:AY:303:ILE:CD1	24:AY:375:ILE:CD1	2.87	0.52
24:AY:68:ILE:HD13	24:AY:92:HIS:NE2	2.25	0.52
26:B1:58:ILE:HG23	26:B1:58:ILE:O	2.08	0.52
33:B8:51:ALA:H	33:B8:53:PRO:HD2	1.73	0.52
34:B9:10:ILE:O	34:B9:11:CYS:CB	2.57	0.52
35:BA:1614:A:H61	54:BW:87:PRO:CA	2.15	0.52
35:BA:1881:C:H2'	35:BA:1881:C:O2	2.10	0.52
35:BA:1663:C:N3	35:BA:1992:G:N7	2.58	0.52
35:BA:2147:G:O2'	35:BA:2148:G:H5'	2.09	0.52
35:BA:2154:G:C6	35:BA:2155:G:N7	2.78	0.52
35:BA:2461:C:H1'	35:BA:2492:U:C4	2.44	0.52
35:BA:2615:U:H2'	35:BA:2616:C:H6	1.75	0.52
35:BA:271(M):G:C2'	35:BA:271(N):U:H5''	2.39	0.52
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.40	0.52
35:BA:481:G:OP2	56:BY:47:LYS:HD3	2.09	0.52
35:BA:634:C:H2'	35:BA:635:C:C6	2.44	0.52
35:BA:819:A:C8	35:BA:1188:U:O4	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:870:A:C2	35:BA:871:U:H1'	2.44	0.52
35:BA:872:A:H2'	35:BA:873:G:C8	2.43	0.52
36:BB:69:G:N2	36:BB:70:C:H1'	2.25	0.52
37:BC:175:VAL:CG2	37:BC:189:ILE:HA	2.39	0.52
38:BD:17:THR:CG2	38:BD:18:VAL:N	2.44	0.52
38:BD:213:ARG:HH12	38:BD:219:PRO:CG	2.22	0.52
38:BD:35:LYS:HG2	38:BD:63:ARG:HG3	1.88	0.52
38:BD:6:PHE:CE1	38:BD:13:ARG:NH2	2.70	0.52
39:BE:35:GLN:NE2	39:BE:36:ARG:O	2.29	0.52
35:BA:674:G:OP1	40:BF:76:GLY:HA3	2.10	0.52
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.30	0.52
46:BO:4:PRO:O	46:BO:5:GLN:CB	2.56	0.52
47:BP:96:THR:C	47:BP:97:PRO:O	2.45	0.52
48:BQ:37:LEU:O	48:BQ:99:PRO:HB3	2.09	0.52
49:BR:73:VAL:O	49:BR:76:VAL:HG12	2.10	0.52
49:BR:84:ALA:N	49:BR:85:PRO:CD	2.73	0.52
50:BS:89:ARG:CG	50:BS:92:TYR:HB3	2.38	0.52
51:BT:29:ARG:CD	51:BT:30:VAL:H	2.22	0.52
51:BT:50:ILE:HG23	51:BT:99:LEU:HD12	1.92	0.52
52:BU:79:PHE:HE1	52:BU:83:LEU:HD21	1.75	0.52
52:BU:88:ILE:CG1	52:BU:88:ILE:O	2.57	0.52
53:BV:82:ARG:HD2	53:BV:82:ARG:N	2.24	0.52
54:BW:25:ARG:HA	54:BW:71:VAL:CB	2.39	0.52
54:BW:76:VAL:O	54:BW:76:VAL:HG13	2.10	0.52
55:BX:12:VAL:HG22	55:BX:13:LEU:H	1.72	0.52
56:BY:95:LYS:HA	56:BY:101:LYS:C	2.30	0.52
57:BZ:102:LEU:HB2	57:BZ:122:ARG:C	2.29	0.52
57:BZ:102:LEU:HD21	57:BZ:124:ILE:CD1	2.31	0.52
57:BZ:152:ALA:O	57:BZ:155:LEU:CD2	2.56	0.52
57:BZ:24:LEU:HD13	57:BZ:44:PHE:HD2	1.74	0.52
57:BZ:29:TYR:O	57:BZ:90:VAL:HG23	2.09	0.52
1:AA:1119:C:H6	1:AA:1119:C:O5'	1.93	0.52
1:AA:1240:U:OP1	7:AG:116:ALA:HB2	2.10	0.52
1:AA:1375:A:C4	1:AA:1376:U:C6	2.98	0.52
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.09	0.52
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.45	0.52
1:AA:408:A:H2'	1:AA:409:G:C8	2.44	0.52
1:AA:413:G:N2	1:AA:428:G:H1'	2.24	0.52
1:AA:446:G:O2'	1:AA:447:G:H5'	2.09	0.52
1:AA:669:U:H2'	1:AA:670:G:H8	1.74	0.52
1:AA:687:A:HO2'	1:AA:688:G:P	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:660:G:C2	1:AA:746:A:C2	2.97	0.52
1:AA:895:G:O2'	1:AA:896:C:H5'	2.09	0.52
1:AA:957:U:O5'	1:AA:957:U:H6	1.92	0.52
4:AD:173:TRP:HB3	4:AD:187:ARG:NH2	2.25	0.52
4:AD:58:LEU:HD13	4:AD:62:GLN:HG3	1.91	0.52
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.08	0.52
7:AG:27:ILE:O	7:AG:27:ILE:HG22	2.09	0.52
1:AA:597:G:N2	8:AH:94:TYR:HE2	2.08	0.52
14:AN:50:LYS:C	14:AN:52:GLN:N	2.59	0.52
16:AP:5:ARG:HE	16:AP:22:THR:HG23	1.73	0.52
16:AP:6:LEU:HD23	16:AP:17:TYR:CG	2.43	0.52
17:AQ:13:ASP:C	17:AQ:15:MET:N	2.63	0.52
17:AQ:81:ARG:C	17:AQ:83:ASP:H	2.12	0.52
18:AR:22:VAL:CG1	18:AR:43:PHE:CE1	2.93	0.52
18:AR:70:ILE:O	18:AR:73:ALA:HB3	2.10	0.52
22:AV:26:G:H2'	22:AV:27:U:OP1	2.10	0.52
24:AY:312:ARG:HH12	24:AY:370:HIS:HB3	1.73	0.52
24:AY:74:VAL:HG13	24:AY:74:VAL:O	2.10	0.52
26:B1:53:VAL:O	26:B1:54:ALA:CB	2.57	0.52
27:B2:35:LEU:HD11	27:B2:50:ILE:CD1	2.39	0.52
29:B4:22:ILE:HG22	29:B4:24:THR:HG23	1.91	0.52
31:B6:26:ASN:O	31:B6:27:LYS:HB2	2.09	0.52
31:B6:28:ARG:CA	31:B6:32:ASN:HD22	2.22	0.52
32:B7:35:ARG:HH12	32:B7:42:LEU:HD11	1.74	0.52
35:BA:1198:U:H2'	35:BA:1199:U:C6	2.45	0.52
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.45	0.52
35:BA:177:G:H3'	35:BA:178:G:C8	2.45	0.52
35:BA:1785:A:H4'	35:BA:1982:C:H1'	1.92	0.52
35:BA:2011:U:C2'	35:BA:2012:G:H5'	2.40	0.52
35:BA:2180:U:C6	35:BA:2181:G:N7	2.77	0.52
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.75	0.52
30:B5:6:VAL:O	35:BA:2615:U:C4	2.62	0.52
35:BA:2681:C:H5	35:BA:2727:G:N2	2.08	0.52
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.10	0.52
35:BA:38:A:H5'	40:BF:50:SER:OG	2.09	0.52
35:BA:636:G:H2'	47:BP:115:LEU:CD1	2.34	0.52
35:BA:68:G:C6	35:BA:69:C:C4	2.98	0.52
35:BA:771:G:C2	35:BA:772:C:C5	2.97	0.52
35:BA:81:G:H3'	35:BA:82:G:C8	2.45	0.52
35:BA:955:C:C5	35:BA:956:G:N7	2.77	0.52
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:46:ALA:O	39:BE:84:PHE:O	2.28	0.52
39:BE:74:PRO:O	39:BE:75:VAL:C	2.48	0.52
39:BE:93:VAL:HG11	39:BE:182:LEU:HD13	1.90	0.52
40:BF:159:GLY:CA	40:BF:164:ARG:HH21	2.20	0.52
41:BG:15:VAL:O	41:BG:19:LEU:HG	2.10	0.52
41:BG:22:ARG:HD2	41:BG:23:PHE:CE1	2.44	0.52
24:AY:177:LYS:NZ	42:BH:110:SER:HB3	2.24	0.52
44:BK:7:UNK:O	44:BK:8:UNK:CB	2.55	0.52
47:BP:147:LEU:O	47:BP:148:LEU:CB	2.57	0.52
48:BQ:109:VAL:CG1	48:BQ:113:GLN:HB2	2.39	0.52
51:BT:72:VAL:O	51:BT:73:GLU:HG3	2.09	0.52
51:BT:83:ILE:O	51:BT:84:GLN:C	2.48	0.52
52:BU:62:ILE:HG23	52:BU:76:TYR:CE2	2.45	0.52
53:BV:32:THR:HG22	53:BV:33:VAL:H	1.75	0.52
53:BV:39:LEU:CB	53:BV:47:VAL:HG21	2.31	0.52
35:BA:565:C:P	53:BV:78:LYS:H	2.32	0.52
54:BW:66:GLU:C	54:BW:68:ARG:H	2.13	0.52
54:BW:72:LYS:CD	54:BW:108:GLY:HA3	2.40	0.52
57:BZ:128:VAL:HG22	57:BZ:129:SER:N	2.25	0.52
1:AA:1057:G:O3'	3:AC:197:GLY:HA3	2.09	0.52
1:AA:1189:C:O3'	3:AC:5:ILE:CD1	2.57	0.52
1:AA:244:U:H4'	1:AA:245:C:C5'	2.40	0.52
1:AA:492:G:O2'	1:AA:493:G:H5'	2.10	0.52
1:AA:527:G:N2	1:AA:528:C:C2	2.78	0.52
1:AA:664:G:N2	1:AA:742:G:C2	2.77	0.52
1:AA:673:G:N2	1:AA:674:G:C2	2.78	0.52
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.92	0.52
1:AA:895:G:N1	1:AA:904:C:O2	2.32	0.52
2:AB:109:SER:O	2:AB:113:HIS:CE1	2.63	0.52
2:AB:52:GLU:O	2:AB:56:ARG:HG3	2.09	0.52
2:AB:8:LYS:HZ1	2:AB:217:ARG:NH1	2.08	0.52
3:AC:34:LEU:CD2	3:AC:38:ARG:HD2	2.39	0.52
4:AD:98:GLU:C	4:AD:100:ARG:H	2.13	0.52
7:AG:136:LYS:O	7:AG:138:LYS:N	2.43	0.52
7:AG:52:GLU:O	7:AG:53:LYS:C	2.48	0.52
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.91	0.52
13:AM:57:ARG:O	13:AM:60:VAL:HB	2.10	0.52
13:AM:8:GLU:OE1	13:AM:67:GLU:HG2	2.10	0.52
16:AP:2:VAL:O	16:AP:2:VAL:HG13	2.09	0.52
17:AQ:92:ARG:HA	17:AQ:95:TYR:HD2	1.71	0.52
1:AA:834:C:OP1	18:AR:60:ALA:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:53:ASN:OD1	19:AS:55:LYS:HB3	2.09	0.52
24:AY:168:PRO:CB	24:AY:171:TRP:CE2	2.92	0.52
24:AY:284:THR:HG22	24:AY:287:ARG:H	1.75	0.52
26:B1:94:LEU:HD13	26:B1:94:LEU:H	1.73	0.52
28:B3:19:GLN:HG2	28:B3:49:LYS:HE3	1.90	0.52
30:B5:50:GLY:HA3	30:B5:56:LYS:HD3	1.91	0.52
31:B6:26:ASN:ND2	31:B6:32:ASN:HD21	2.04	0.52
35:BA:1062:G:H1'	44:BK:73:UNK:CB	2.40	0.52
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.09	0.52
35:BA:2283:C:C5	35:BA:2389:G:C4	2.98	0.52
35:BA:2551:C:H2'	35:BA:2552:U:O4'	2.10	0.52
35:BA:8:A:H2'	35:BA:9:U:H5	1.73	0.52
35:BA:851:U:H3	35:BA:926:A:H61	1.57	0.52
36:BB:102:A:N3	36:BB:102:A:H2'	2.25	0.52
37:BC:177:LYS:O	37:BC:185:LEU:HD21	2.09	0.52
38:BD:109:ASP:N	38:BD:195:ALA:O	2.42	0.52
38:BD:212:SER:O	38:BD:217:ARG:HB2	2.09	0.52
40:BF:174:VAL:HG12	40:BF:176:LEU:CD1	2.40	0.52
41:BG:52:ILE:O	41:BG:53:LEU:HB2	2.10	0.52
46:BO:105:GLU:HA	46:BO:108:GLU:OE1	2.10	0.52
47:BP:105:LEU:HD12	47:BP:105:LEU:N	2.25	0.52
49:BR:27:SER:C	49:BR:30:THR:HG22	2.30	0.52
51:BT:11:GLU:O	51:BT:13:ARG:N	2.37	0.52
51:BT:22:PHE:HE2	51:BT:85:LYS:CE	2.22	0.52
52:BU:15:LYS:CA	52:BU:18:LEU:HD23	2.31	0.52
56:BY:88:LYS:O	56:BY:89:PHE:HB2	2.09	0.52
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.45	0.52
1:AA:66:G:N2	1:AA:172:A:H2	2.08	0.52
1:AA:64:G:C2	1:AA:67:C:N4	2.77	0.52
2:AB:77:ALA:CA	2:AB:80:ILE:HD13	2.39	0.52
2:AB:97:TRP:HH2	2:AB:176:GLU:CG	2.22	0.52
4:AD:116:GLN:HG2	4:AD:116:GLN:O	2.08	0.52
6:AF:28:ARG:O	6:AF:32:ASN:HB2	2.10	0.52
7:AG:145:ALA:O	7:AG:147:ALA:N	2.43	0.52
7:AG:26:PHE:CZ	7:AG:124:LEU:HD11	2.45	0.52
11:AK:90:GLY:O	11:AK:94:ALA:N	2.43	0.52
12:AL:113:ARG:HG3	12:AL:114:LYS:H	1.75	0.52
12:AL:34:ARG:HD3	12:AL:105:TYR:HH	1.71	0.52
14:AN:39:LEU:HD12	14:AN:44:LEU:HD12	1.91	0.52
15:AO:79:ARG:O	15:AO:82:ILE:HG22	2.10	0.52
18:AR:76:LEU:C	18:AR:78:LEU:N	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:35:SER:O	19:AS:38:SER:OG	2.22	0.52
22:AV:34:C:C6	22:AV:34:C:O5'	2.63	0.52
24:AY:138:LEU:CD2	24:AY:253:PRO:HG2	2.40	0.52
24:AY:146:ARG:HA	24:AY:176:GLY:HA2	1.91	0.52
24:AY:320:VAL:HG11	24:AY:359:ALA:O	2.10	0.52
24:AY:513:LEU:O	24:AY:517:ARG:HB2	2.09	0.52
25:B0:31:VAL:HG22	25:B0:65:GLY:O	2.10	0.52
28:B3:8:LEU:CD2	28:B3:8:LEU:C	2.79	0.52
30:B5:8:LYS:HB2	35:BA:2054:A:C2	2.44	0.52
31:B6:20:ASN:OD1	31:B6:21:TYR:N	2.43	0.52
35:BA:1057:A:O2'	35:BA:1058:G:H5'	2.10	0.52
35:BA:1060:U:H4'	35:BA:1061:U:C5	2.45	0.52
35:BA:1108:U:OP1	43:BJ:80:UNK:HA	2.09	0.52
35:BA:1286:A:OP1	49:BR:105:ARG:CZ	2.58	0.52
35:BA:1783:A:O2'	35:BA:2607:G:O2'	2.06	0.52
35:BA:2046:G:C2	35:BA:2047:U:C2	2.98	0.52
35:BA:206:U:H2'	35:BA:207:A:H8	1.74	0.52
35:BA:223:A:N1	35:BA:407:G:O2'	2.39	0.52
35:BA:2280:G:N1	35:BA:2281:C:C4	2.77	0.52
24:AY:146:ARG:NE	35:BA:2656:U:H1'	2.24	0.52
35:BA:748:G:O6	35:BA:751:A:H4'	2.09	0.52
35:BA:976:C:O2'	35:BA:977:G:H5'	2.09	0.52
37:BC:25:ALA:CB	37:BC:224:ILE:HG22	2.40	0.52
38:BD:77:ALA:HA	38:BD:97:TYR:HA	1.91	0.52
39:BE:128:SER:O	39:BE:129:HIS:HB2	2.10	0.52
39:BE:33:VAL:HG23	39:BE:47:VAL:HG13	1.91	0.52
40:BF:110:LEU:HD12	40:BF:206:ILE:HD11	1.92	0.52
42:BH:121:ILE:CG2	42:BH:122:THR:N	2.72	0.52
47:BP:106:LEU:O	47:BP:107:LYS:CG	2.58	0.52
47:BP:24:GLY:HA3	47:BP:33:ARG:NH1	2.25	0.52
48:BQ:58:PHE:HZ	48:BQ:64:ILE:HD11	1.75	0.52
52:BU:26:GLY:C	52:BU:28:ARG:N	2.63	0.52
52:BU:68:ALA:O	52:BU:71:GLN:HB3	2.10	0.52
56:BY:90:LEU:O	56:BY:90:LEU:HG	2.10	0.52
57:BZ:48:PHE:C	57:BZ:50:GLN:N	2.63	0.52
1:AA:979:C:H41	1:AA:1360:A:N6	2.08	0.52
1:AA:1409:C:C2	1:AA:1410:G:N7	2.78	0.52
1:AA:1393:U:C5'	1:AA:1502:A:OP1	2.58	0.52
1:AA:169:C:C2'	1:AA:170:U:H5'	2.39	0.52
1:AA:309:G:O2'	1:AA:310:G:H5'	2.09	0.52
1:AA:838:G:C6	1:AA:840:C:H1'	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:55:PHE:O	2:AB:56:ARG:C	2.49	0.52
2:AB:61:LEU:N	2:AB:64:ARG:NH2	2.57	0.52
3:AC:6:HIS:CE1	3:AC:184:TYR:CE2	2.98	0.52
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.24	0.52
5:AE:70:PRO:O	5:AE:72:GLN:HG3	2.10	0.52
13:AM:97:PRO:N	13:AM:110:ARG:HD3	2.24	0.52
10:AJ:62:HIS:HB2	14:AN:59:ALA:HB3	1.91	0.52
24:AY:7:LEU:HA	24:AY:10:VAL:CG2	2.40	0.52
24:AY:29:ILE:O	24:AY:32:LYS:N	2.43	0.52
30:B5:17:ASP:HA	30:B5:20:ARG:HD2	1.92	0.52
35:BA:1000:A:C6	35:BA:1155:A:C8	2.98	0.52
35:BA:1070:A:H62	35:BA:1096:A:H2'	1.73	0.52
35:BA:1169:G:H1	35:BA:1180:C:N4	2.08	0.52
35:BA:1173:G:H3'	35:BA:1174:A:C5'	2.40	0.52
35:BA:1308:A:C6	35:BA:1309:G:C2	2.98	0.52
35:BA:1543:C:C3'	35:BA:1544:A:C5'	2.81	0.52
35:BA:1598:C:H5'	55:BX:36:LYS:CG	2.39	0.52
32:B7:32:LYS:HE2	35:BA:180:G:P	2.50	0.52
35:BA:2280:G:O2'	35:BA:2281:C:H5'	2.10	0.52
35:BA:230:U:O2'	35:BA:231:C:H5'	2.10	0.52
35:BA:2319:G:H1'	35:BA:2320:A:N7	2.25	0.52
35:BA:2370:G:H2'	35:BA:2371:G:C8	2.45	0.52
35:BA:2707:G:H2'	35:BA:2708:G:H8	1.72	0.52
35:BA:2747:G:C2	35:BA:2756:U:C5	2.96	0.52
35:BA:388:G:C4	35:BA:390:A:C6	2.98	0.52
35:BA:388:G:H2'	35:BA:390:A:N7	2.25	0.52
35:BA:479:A:HO2'	35:BA:481:G:H8	1.56	0.52
35:BA:480:A:H3'	35:BA:481:G:H5''	1.91	0.52
35:BA:861:A:C2'	35:BA:862:G:H5'	2.40	0.52
37:BC:65:PRO:HD2	37:BC:188:ASN:HA	1.90	0.52
35:BA:1799:G:N2	38:BD:155:LEU:HG	2.24	0.52
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.91	0.52
39:BE:51:PHE:O	39:BE:52:LEU:C	2.47	0.52
35:BA:586:A:OP1	40:BF:89:VAL:HG21	2.10	0.52
41:BG:125:PHE:CD2	41:BG:131:TYR:CD1	2.97	0.52
42:BH:16:SER:O	42:BH:26:VAL:HG23	2.10	0.52
45:BN:10:GLU:HG3	45:BN:11:PRO:HD2	1.92	0.52
48:BQ:68:ILE:HD13	48:BQ:103:MET:HB3	1.92	0.52
50:BS:97:ARG:O	50:BS:99:LYS:HG2	2.09	0.52
51:BT:53:ARG:CB	51:BT:53:ARG:HH11	2.23	0.52
53:BV:2:PHE:CE1	53:BV:13:ARG:HD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:2:ARG:HG2	56:BY:2:ARG:HH11	1.73	0.52
1:AA:1155:G:C2'	1:AA:1156:G:H5'	2.40	0.51
1:AA:1188:A:C2'	1:AA:1189:C:H5'	2.40	0.51
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.10	0.51
1:AA:1327:C:OP1	21:AU:20:LYS:HB3	2.10	0.51
1:AA:52:G:C6	1:AA:360:A:C2	2.98	0.51
1:AA:588:G:C8	1:AA:753:A:C2	2.99	0.51
1:AA:633:G:C5'	1:AA:634:C:OP2	2.58	0.51
1:AA:855:G:H2'	1:AA:856:C:H6	1.74	0.51
2:AB:170:GLU:O	2:AB:172:ILE:N	2.43	0.51
2:AB:22:LYS:CE	2:AB:40:HIS:CE1	2.94	0.51
2:AB:70:PHE:CD1	2:AB:70:PHE:N	2.77	0.51
3:AC:11:ARG:HH21	3:AC:180:ALA:HB3	1.75	0.51
3:AC:6:HIS:CE1	3:AC:184:TYR:HE2	2.28	0.51
5:AE:34:VAL:O	5:AE:42:GLY:N	2.43	0.51
7:AG:24:THR:HA	7:AG:27:ILE:CG1	2.40	0.51
8:AH:1:MET:HE2	8:AH:1:MET:H3	1.73	0.51
2:AB:178:ARG:NH1	8:AH:71:GLY:O	2.42	0.51
9:AI:52:ALA:C	9:AI:95:LYS:HZ1	2.13	0.51
11:AK:126:ARG:CB	11:AK:126:ARG:HH11	2.02	0.51
12:AL:39:VAL:HG11	12:AL:41:ARG:NH2	2.25	0.51
13:AM:88:ARG:HA	13:AM:98:VAL:HG13	1.93	0.51
16:AP:40:ASP:C	16:AP:40:ASP:OD1	2.48	0.51
17:AQ:90:ILE:O	17:AQ:93:GLN:HB3	2.10	0.51
19:AS:30:LEU:HD23	19:AS:30:LEU:C	2.31	0.51
22:AV:7:G:H8	22:AV:7:G:OP2	1.93	0.51
24:AY:225:GLN:O	24:AY:228:ARG:CB	2.58	0.51
24:AY:315:VAL:CG1	24:AY:316:ALA:H	2.22	0.51
24:AY:386:LYS:HD2	24:AY:387:PHE:N	2.26	0.51
26:B1:23:LYS:CE	26:B1:28:GLY:HA3	2.40	0.51
30:B5:51:TYR:HD2	30:B5:52:TYR:CE1	2.28	0.51
32:B7:5:TRP:CH2	35:BA:464:U:H4'	2.45	0.51
33:B8:12:LYS:HD3	47:BP:68:GLN:CG	2.38	0.51
33:B8:35:GLN:O	33:B8:36:LYS:HG3	2.10	0.51
33:B8:4:MET:HE2	35:BA:592:G:H21	1.75	0.51
35:BA:1139:G:N3	35:BA:1143:A:H2	2.08	0.51
35:BA:770:G:O2'	35:BA:1354:A:N1	2.36	0.51
35:BA:1963:U:H2'	35:BA:1963:U:O2	2.10	0.51
35:BA:197:A:C8	35:BA:197:A:H5'	2.45	0.51
35:BA:2048:G:H1'	35:BA:2823:A:N6	2.25	0.51
35:BA:2331:G:N2	35:BA:2385:C:C4	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2461:C:H2'	35:BA:2462:U:H6	1.74	0.51
35:BA:2572:A:C2	39:BE:144:ARG:NH1	2.78	0.51
35:BA:2687:U:O2'	35:BA:2688:U:H5'	2.10	0.51
35:BA:271(L):U:H4'	35:BA:271(M):G:C8	2.45	0.51
35:BA:2751:G:N3	35:BA:2751:G:H2'	2.25	0.51
35:BA:2875:C:O2'	51:BT:6:LEU:HG	2.10	0.51
35:BA:2877:G:C5	35:BA:2878:U:C4	2.98	0.51
35:BA:586:A:OP1	40:BF:89:VAL:CG2	2.58	0.51
35:BA:606:U:H4'	35:BA:658:C:O4'	2.10	0.51
35:BA:627:A:O2'	35:BA:628:G:C8	2.62	0.51
35:BA:636:G:C8	47:BP:113:LYS:NZ	2.74	0.51
35:BA:852:G:O6	35:BA:926:A:C6	2.63	0.51
37:BC:28:LEU:O	37:BC:32:LEU:HG	2.10	0.51
39:BE:167:VAL:CG1	39:BE:188:VAL:HA	2.33	0.51
45:BN:56:ASN:H	45:BN:125:GLY:CA	2.23	0.51
45:BN:98:VAL:O	45:BN:102:ALA:HB2	2.09	0.51
47:BP:80:TYR:HA	47:BP:111:ARG:HB3	1.92	0.51
49:BR:48:VAL:O	49:BR:51:LEU:HB2	2.10	0.51
50:BS:106:ARG:CD	50:BS:107:GLU:O	2.58	0.51
50:BS:106:ARG:HD2	50:BS:106:ARG:C	2.30	0.51
52:BU:101:ARG:HG3	52:BU:101:ARG:NH1	2.25	0.51
52:BU:6:THR:OG1	52:BU:10:ARG:NH2	2.43	0.51
52:BU:17:ILE:O	52:BU:18:LEU:C	2.47	0.51
52:BU:66:ASN:C	52:BU:66:ASN:ND2	2.62	0.51
55:BX:26:TYR:N	55:BX:26:TYR:CD1	2.76	0.51
56:BY:76:CYS:O	56:BY:77:PRO:C	2.48	0.51
57:BZ:118:GLN:N	57:BZ:173:ALA:O	2.35	0.51
57:BZ:70:LEU:CD2	57:BZ:70:LEU:N	2.72	0.51
1:AA:1204:A:C2'	1:AA:1205:U:O4'	2.59	0.51
1:AA:668:G:H4'	15:AO:48:LYS:CB	2.38	0.51
1:AA:575:G:N7	1:AA:881:G:N2	2.58	0.51
1:AA:969:A:C2'	1:AA:970:C:H5'	2.40	0.51
2:AB:80:ILE:CG2	2:AB:212:GLN:HA	2.40	0.51
2:AB:68:ILE:HB	2:AB:70:PHE:CE1	2.45	0.51
4:AD:152:SER:CB	4:AD:155:LEU:HD12	2.35	0.51
5:AE:55:VAL:HG12	5:AE:56:GLN:N	2.25	0.51
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.76	0.51
6:AF:82:ARG:CB	6:AF:85:VAL:HG23	2.39	0.51
9:AI:94:ALA:O	9:AI:95:LYS:HB3	2.10	0.51
15:AO:65:ARG:NH1	15:AO:65:ARG:CG	2.61	0.51
19:AS:10:PHE:CE1	19:AS:70:LYS:HD2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:15:G:H5''	22:AV:16:C:H5'	1.92	0.51
24:AY:173:ILE:HA	24:AY:227:LEU:CD1	2.40	0.51
24:AY:25:GLY:HA3	24:AY:29:ILE:CG1	2.40	0.51
24:AY:272:LEU:O	24:AY:276:ALA:N	2.33	0.51
27:B2:37:PHE:C	27:B2:39:ALA:N	2.61	0.51
35:BA:1010:A:H1'	35:BA:1153:C:C1'	2.37	0.51
35:BA:1215:G:H2'	35:BA:1216:G:H8	1.74	0.51
35:BA:1315:C:C2'	35:BA:1316:U:H5'	2.41	0.51
35:BA:1764:G:H2'	35:BA:1765:C:C6	2.45	0.51
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.09	0.51
35:BA:1947:C:O2'	35:BA:1948:G:H5''	2.07	0.51
1:AA:1483:A:C2	35:BA:1960:A:C1'	2.92	0.51
35:BA:2110:G:H1	35:BA:2178:C:N4	2.06	0.51
35:BA:199:A:N1	35:BA:2433:A:C2'	2.73	0.51
35:BA:2245:U:O2	35:BA:2435:A:C8	2.63	0.51
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.45	0.51
35:BA:295:G:C6	35:BA:344:G:C2	2.98	0.51
35:BA:514:A:N3	35:BA:581:C:O2'	2.33	0.51
35:BA:687:C:H2'	35:BA:688:U:C5'	2.40	0.51
35:BA:803:U:C2'	35:BA:804:A:C5'	2.84	0.51
35:BA:868:U:C4	35:BA:869:G:N7	2.78	0.51
35:BA:925:C:H2'	35:BA:926:A:C5'	2.29	0.51
35:BA:947:G:H2'	35:BA:948:G:C8	2.42	0.51
35:BA:962:G:C4	35:BA:963:U:C6	2.97	0.51
36:BB:61:G:H2'	36:BB:62:C:C6	2.45	0.51
38:BD:108:PRO:CB	38:BD:143:HIS:NE2	2.73	0.51
38:BD:233:HIS:NE2	38:BD:246:PRO:HA	2.25	0.51
38:BD:274:ARG:HH11	38:BD:274:ARG:CG	2.24	0.51
39:BE:188:VAL:O	39:BE:189:PRO:O	2.28	0.51
39:BE:195:LEU:HD11	39:BE:197:ILE:HG23	1.91	0.51
40:BF:156:LEU:C	40:BF:157:VAL:HG13	2.30	0.51
41:BG:125:PHE:CD2	41:BG:131:TYR:HB2	2.44	0.51
41:BG:51:ARG:NH1	41:BG:53:LEU:HD21	2.25	0.51
43:BJ:64:UNK:C	43:BJ:66:UNK:N	2.72	0.51
35:BA:807:U:H5	47:BP:39:LYS:HZ1	1.57	0.51
47:BP:48:PRO:O	47:BP:49:ARG:C	2.48	0.51
50:BS:35:ILE:N	50:BS:53:SER:HB2	2.25	0.51
57:BZ:15:PRO:HA	57:BZ:18:LEU:HD23	1.92	0.51
57:BZ:72:ARG:NH2	57:BZ:97:GLU:O	2.43	0.51
1:AA:1010:G:H2'	1:AA:1011:G:C8	2.46	0.51
1:AA:1097:C:O5'	1:AA:1097:C:H6	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:115:G:O2'	1:AA:116:A:C8	2.58	0.51
1:AA:1192:C:C2'	5:AE:25:ARG:HH22	2.24	0.51
1:AA:1235:U:O3'	21:AU:3:LYS:HB2	2.10	0.51
1:AA:1241:G:C4	1:AA:1242:C:C5	2.98	0.51
1:AA:1320:C:C5'	1:AA:1320:C:H6	2.21	0.51
1:AA:1353:G:C2	1:AA:1354:C:C5	2.98	0.51
1:AA:144:G:H2'	1:AA:145:G:O4'	2.10	0.51
1:AA:146:G:N2	1:AA:177:C:C2	2.79	0.51
1:AA:407:G:H1	1:AA:435:C:H42	1.58	0.51
1:AA:508:C:H1'	1:AA:509:A:N7	2.25	0.51
1:AA:679:C:C4	1:AA:680:C:N4	2.78	0.51
1:AA:781:A:N7	1:AA:801:U:O4	2.43	0.51
1:AA:973:G:OP2	1:AA:974:A:H2'	2.10	0.51
2:AB:60:ASP:C	2:AB:64:ARG:HH21	2.13	0.51
3:AC:108:ASN:HB3	3:AC:111:LEU:CG	2.40	0.51
3:AC:11:ARG:O	3:AC:14:ILE:O	2.27	0.51
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.23	0.51
3:AC:86:VAL:HA	3:AC:89:GLU:HB3	1.92	0.51
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.39	0.51
5:AE:152:ARG:NH2	8:AH:44:PHE:CE1	2.79	0.51
6:AF:12:PRO:HB3	6:AF:58:GLY:CA	2.40	0.51
6:AF:26:ILE:HG22	6:AF:27:GLN:N	2.26	0.51
7:AG:141:VAL:O	7:AG:144:MET:HB2	2.10	0.51
7:AG:46:ALA:HB1	7:AG:121:ALA:HB2	1.92	0.51
9:AI:121:ARG:HH11	9:AI:121:ARG:CG	2.22	0.51
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.24	0.51
11:AK:32:ILE:CD1	11:AK:72:ALA:HB2	2.41	0.51
12:AL:26:ALA:O	12:AL:27:LEU:O	2.28	0.51
14:AN:27:CYS:SG	14:AN:43:CYS:SG	3.05	0.51
14:AN:50:LYS:C	14:AN:52:GLN:H	2.13	0.51
24:AY:210:LEU:C	24:AY:212:ASN:H	2.11	0.51
24:AY:7:LEU:HA	24:AY:10:VAL:HG21	1.91	0.51
25:B0:40:GLN:HE22	25:B0:43:THR:HA	1.75	0.51
27:B2:51:ARG:O	27:B2:54:LYS:N	2.42	0.51
30:B5:48:GLU:O	30:B5:49:CYS:HB3	2.10	0.51
34:B9:16:VAL:HG21	35:BA:1033:U:OP1	2.11	0.51
35:BA:1015:G:C5	35:BA:1148:A:C2	2.98	0.51
35:BA:1261:C:C2	35:BA:1262:A:C8	2.99	0.51
35:BA:1695:G:H3'	35:BA:1695:G:N3	2.25	0.51
35:BA:1934:C:H5'	35:BA:1974:C:H4'	1.91	0.51
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:10:ILE:HG21	35:BA:2477:C:H5	1.76	0.51
35:BA:2581:G:N1	35:BA:2610:C:C2	2.78	0.51
35:BA:2812:G:N2	35:BA:2889:C:N3	2.58	0.51
35:BA:2838:G:H4'	49:BR:45:ARG:HD2	1.91	0.51
35:BA:327:G:C2	35:BA:328:U:C2	2.98	0.51
35:BA:392:C:H5''	35:BA:409:C:H5''	1.92	0.51
35:BA:695:G:N3	35:BA:696:G:C8	2.78	0.51
35:BA:744:G:P	39:BE:132:HIS:HB3	2.50	0.51
35:BA:817:C:H42	35:BA:1190:G:H1	1.59	0.51
35:BA:897:C:H5''	35:BA:897:C:C6	2.41	0.51
37:BC:114:VAL:HG12	37:BC:144:THR:CB	2.41	0.51
37:BC:173:ALA:HB3	37:BC:192:PHE:CZ	2.45	0.51
37:BC:77:ILE:HG13	37:BC:115:ALA:CB	2.40	0.51
39:BE:51:PHE:N	39:BE:74:PRO:HG3	2.25	0.51
40:BF:81:PRO:C	40:BF:82:ILE:O	2.49	0.51
41:BG:12:TYR:O	41:BG:17:PRO:HD2	2.11	0.51
42:BH:144:VAL:O	42:BH:148:ILE:HG12	2.10	0.51
44:BK:97:UNK:O	44:BK:134:UNK:O	2.29	0.51
46:BO:60:ALA:CA	46:BO:87:ILE:HG12	2.25	0.51
47:BP:16:ARG:NE	47:BP:18:ARG:HB2	2.26	0.51
35:BA:942:G:H5''	47:BP:36:LYS:HA	1.91	0.51
49:BR:45:ARG:C	49:BR:49:ASP:HB2	2.29	0.51
50:BS:89:ARG:O	50:BS:90:GLY:C	2.47	0.51
51:BT:123:GLN:HA	51:BT:126:ALA:HB2	1.93	0.51
51:BT:28:VAL:HG13	51:BT:45:PHE:O	2.09	0.51
51:BT:50:ILE:HD11	51:BT:64:ARG:CB	2.40	0.51
52:BU:76:TYR:HD1	52:BU:77:SER:N	2.08	0.51
1:AA:1431:C:N3	1:AA:1470:G:C2	2.78	0.51
1:AA:148:G:C2	1:AA:175:C:N3	2.78	0.51
1:AA:241:C:N3	1:AA:242:C:C5	2.79	0.51
1:AA:9:G:C2	1:AA:26:A:C2	2.99	0.51
1:AA:878:G:C6	1:AA:879:C:N4	2.78	0.51
1:AA:938:A:O2'	1:AA:939:G:H5'	2.09	0.51
1:AA:944:G:C2	1:AA:1340:A:C6	2.99	0.51
2:AB:153:ARG:HG2	2:AB:154:LEU:H	1.75	0.51
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.59	0.51
3:AC:131:ARG:NH1	3:AC:166:GLU:HG3	2.23	0.51
3:AC:157:ILE:HD13	3:AC:166:GLU:HB2	1.91	0.51
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.93	0.51
15:AO:21:ASP:O	15:AO:21:ASP:OD1	2.28	0.51
24:AY:380:THR:CB	24:AY:383:GLU:HB2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:401:ILE:CG2	24:AY:412:LEU:HD21	2.40	0.51
24:AY:438:VAL:O	24:AY:446:PHE:HE2	1.93	0.51
24:AY:475:GLU:O	24:AY:522:GLN:OE1	2.29	0.51
27:B2:16:LEU:O	27:B2:17:SER:O	2.28	0.51
30:B5:13:LYS:O	30:B5:16:ARG:CB	2.54	0.51
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.35	0.51
31:B6:9:LEU:HD13	31:B6:10:LEU:N	2.25	0.51
35:BA:1083:U:O2	35:BA:1086:A:N1	2.44	0.51
35:BA:1402:C:O2'	35:BA:1403:C:H5'	2.11	0.51
35:BA:1666:G:H3'	35:BA:1667:G:C8	2.45	0.51
35:BA:171:G:O2'	35:BA:172:C:H5'	2.10	0.51
35:BA:1759:A:N7	35:BA:2696:U:H1'	2.25	0.51
35:BA:1825:A:OP2	38:BD:220:HIS:NE2	2.32	0.51
35:BA:1882:C:O2	35:BA:1882:C:H2'	2.11	0.51
35:BA:2143:C:H5''	35:BA:2182:G:C4'	2.40	0.51
35:BA:2206:G:N2	35:BA:2207:G:H4'	2.26	0.51
35:BA:2469:A:N7	35:BA:2482:G:C1'	2.68	0.51
35:BA:2703:C:HO2'	35:BA:2704:C:H5'	1.69	0.51
35:BA:2770:G:H5'	35:BA:2771:C:OP2	2.10	0.51
35:BA:363(E):U:H2'	35:BA:363(F):A:C1'	2.40	0.51
35:BA:382:G:N2	35:BA:393:C:C2	2.79	0.51
35:BA:558:G:P	45:BN:111:PRO:HD2	2.50	0.51
35:BA:813:U:C2	35:BA:814:C:C4	2.99	0.51
35:BA:864:G:C6	35:BA:865:C:N4	2.79	0.51
36:BB:105:A:O2'	36:BB:106:G:H5'	2.10	0.51
38:BD:111:LEU:HD11	38:BD:115:GLN:NE2	2.21	0.51
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.93	0.51
39:BE:171:GLU:C	39:BE:173:VAL:N	2.62	0.51
40:BF:42:ALA:CA	40:BF:45:ARG:HG3	2.33	0.51
42:BH:41:MET:HE1	42:BH:53:GLU:H	1.75	0.51
45:BN:44:PRO:O	45:BN:45:ASN:CB	2.55	0.51
46:BO:13:ASN:C	46:BO:15:GLY:N	2.63	0.51
46:BO:4:PRO:HB3	46:BO:22:ILE:C	2.31	0.51
50:BS:102:ALA:HB3	50:BS:103:GLU:OE1	2.11	0.51
50:BS:51:ALA:HB3	50:BS:73:LEU:HB2	1.91	0.51
50:BS:58:LEU:CD2	50:BS:65:VAL:HG13	2.40	0.51
52:BU:83:LEU:HD12	52:BU:83:LEU:N	2.24	0.51
56:BY:81:LYS:O	56:BY:82:PRO:O	2.28	0.51
57:BZ:119:GLU:CG	57:BZ:122:ARG:CZ	2.89	0.51
57:BZ:157:LEU:O	57:BZ:158:PRO:C	2.48	0.51
57:BZ:14:LYS:O	57:BZ:17:ALA:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:101:A:H2'	1:AA:102:G:O5'	2.11	0.51
1:AA:951:G:N1	1:AA:1231:G:C6	2.78	0.51
1:AA:1333:A:N6	1:AA:1334:G:C2	2.79	0.51
1:AA:408:A:H2'	1:AA:409:G:H8	1.76	0.51
1:AA:683:G:H3'	1:AA:684:A:H8	1.75	0.51
1:AA:971:G:H4'	1:AA:972:C:C5'	2.41	0.51
2:AB:67:THR:HG22	2:AB:90:MET:HE3	1.92	0.51
5:AE:84:PHE:CZ	5:AE:133:TYR:CD2	2.98	0.51
7:AG:70:LYS:O	7:AG:138:LYS:HE3	2.10	0.51
1:AA:1152:A:C5'	10:AJ:13:HIS:HD2	2.19	0.51
12:AL:24:VAL:CG1	12:AL:98:TYR:CE2	2.91	0.51
1:AA:585:G:C4'	12:AL:8:ASN:ND2	2.71	0.51
1:AA:950:U:H3'	13:AM:102:ARG:HH22	1.75	0.51
19:AS:51:VAL:O	19:AS:58:VAL:N	2.44	0.51
20:AT:14:LYS:C	20:AT:16:HIS:H	2.13	0.51
24:AY:136:PRO:O	24:AY:137:ILE:CG1	2.54	0.51
24:AY:420:SER:CB	24:AY:427:VAL:CG2	2.88	0.51
35:BA:116:C:N4	35:BA:117:G:C6	2.78	0.51
35:BA:1202:C:H2'	35:BA:1203:G:C5'	2.40	0.51
35:BA:134:C:C4	35:BA:135:G:N7	2.79	0.51
35:BA:1674:G:H1'	35:BA:1676:A:N6	2.25	0.51
35:BA:2131:G:OP1	35:BA:2132:U:H3'	2.10	0.51
35:BA:2308:G:N7	35:BA:2310:A:H5'	2.25	0.51
35:BA:2325:G:C6	35:BA:2326:C:N4	2.78	0.51
35:BA:2459:A:N7	35:BA:2460:U:C5	2.79	0.51
35:BA:2489:G:O2'	35:BA:2490:G:H5'	2.11	0.51
35:BA:2630:G:HO2'	35:BA:2892:A:HO2'	1.57	0.51
35:BA:310:A:O2'	35:BA:311:A:C2'	2.57	0.51
35:BA:526:A:OP1	35:BA:527:C:OP1	2.27	0.51
35:BA:649:G:H2'	35:BA:650:C:C6	2.45	0.51
35:BA:668:G:H2'	35:BA:670:A:N6	2.24	0.51
35:BA:85:G:P	56:BY:30:VAL:HB	2.49	0.51
35:BA:948:G:C6	35:BA:949:C:C4	2.99	0.51
36:BB:20:C:C2'	36:BB:21:G:H5''	2.30	0.51
37:BC:64:LEU:HD12	37:BC:159:GLY:O	2.10	0.51
37:BC:59:ARG:HB2	37:BC:164:ARG:HG3	1.92	0.51
35:BA:2619:C:O3'	39:BE:152:LYS:HA	2.10	0.51
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.92	0.51
41:BG:86:MET:N	41:BG:87:PRO:CD	2.73	0.51
47:BP:95:VAL:CG2	47:BP:125:VAL:HG23	2.41	0.51
48:BQ:54:MET:CE	48:BQ:64:ILE:HD13	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2838:G:O4'	49:BR:45:ARG:NH1	2.44	0.51
50:BS:15:ARG:HH11	50:BS:15:ARG:CB	2.24	0.51
51:BT:91:ARG:HA	51:BT:117:ASP:H	1.75	0.51
51:BT:28:VAL:CG2	51:BT:46:GLU:HA	2.40	0.51
54:BW:42:ARG:HG2	54:BW:42:ARG:O	2.11	0.51
1:AA:1014:A:N3	19:AS:34:TRP:CD2	2.78	0.51
1:AA:1068:G:N7	1:AA:1108:G:N2	2.59	0.51
1:AA:1249:C:H4'	9:AI:36:TYR:OH	2.11	0.51
1:AA:576:G:OP2	1:AA:576:G:H3'	2.09	0.51
1:AA:80:G:C2'	1:AA:81:U:H5'	2.41	0.51
2:AB:159:PRO:HB2	2:AB:161:ALA:O	2.10	0.51
2:AB:209:ARG:O	2:AB:213:LEU:HB2	2.11	0.51
2:AB:236:TYR:CD1	2:AB:236:TYR:N	2.76	0.51
2:AB:83:MET:O	2:AB:86:GLU:N	2.44	0.51
3:AC:157:ILE:CG2	3:AC:164:ARG:NH2	2.66	0.51
6:AF:43:LEU:CD2	6:AF:43:LEU:H	2.23	0.51
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.70	0.51
9:AI:57:GLY:O	9:AI:58:ARG:CB	2.59	0.51
1:AA:1060:C:C5'	10:AJ:51:ARG:HD3	2.28	0.51
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.31	0.51
15:AO:77:ARG:O	15:AO:81:LEU:HB3	2.11	0.51
20:AT:76:ALA:O	20:AT:77:ALA:C	2.49	0.51
20:AT:88:VAL:HG12	20:AT:92:LEU:CD1	2.40	0.51
24:AY:369:ASN:ND2	24:AY:373:ILE:CG1	2.59	0.51
24:AY:412:LEU:HA	24:AY:459:VAL:HG11	1.92	0.51
12:AL:126:LYS:CB	24:AY:487:ARG:HE	2.19	0.51
29:B4:9:LEU:CD1	29:B4:10:VAL:H	2.21	0.51
30:B5:8:LYS:CG	35:BA:2054:A:C2	2.94	0.51
33:B8:45:GLY:O	33:B8:46:ARG:CB	2.55	0.51
27:B2:65:ASN:HD21	35:BA:112:U:H5'	1.76	0.51
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.45	0.51
35:BA:1636:C:O5'	35:BA:1636:C:H6	1.93	0.51
35:BA:1806:C:H2'	35:BA:1807:G:C8	2.45	0.51
35:BA:2123:G:C2	35:BA:2124:G:C8	2.98	0.51
35:BA:2206:G:N2	35:BA:2208:A:C2	2.78	0.51
35:BA:2243:U:H2'	35:BA:2244:U:H6	1.72	0.51
35:BA:2464:C:O2'	35:BA:2465:C:P	2.68	0.51
35:BA:271(J):C:H2'	35:BA:271(J):C:O2	2.10	0.51
35:BA:438:G:O2'	35:BA:440:G:H5'	2.11	0.51
35:BA:523:C:C2'	35:BA:524:U:H5'	2.41	0.51
35:BA:530:G:H21	35:BA:2021:C:H1'	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:4:MET:HE2	35:BA:592:G:N3	2.26	0.51
35:BA:614(C):A:H8	35:BA:614(C):A:O5'	1.94	0.51
35:BA:752:A:C8	35:BA:1781:C:O2	2.63	0.51
35:BA:875:G:O2'	35:BA:876:C:H5'	2.09	0.51
35:BA:917:A:H2'	35:BA:918:A:O4'	2.11	0.51
35:BA:998:C:OP2	52:BU:93:LYS:NZ	2.39	0.51
36:BB:42:C:O2'	36:BB:43:C:O5'	2.29	0.51
36:BB:80:U:H2'	36:BB:81:G:N2	2.24	0.51
38:BD:141:VAL:O	38:BD:194:GLY:O	2.29	0.51
39:BE:116:VAL:CG2	39:BE:122:PHE:CD2	2.93	0.51
35:BA:2631:G:N2	39:BE:61:ARG:HH22	2.09	0.51
41:BG:113:ARG:HB3	41:BG:140:ILE:HB	1.93	0.51
42:BH:83:TYR:HB2	42:BH:134:SER:HA	1.91	0.51
43:BJ:68:UNK:C	43:BJ:70:UNK:N	2.69	0.51
48:BQ:70:PRO:HA	48:BQ:94:VAL:O	2.09	0.51
49:BR:42:LYS:O	49:BR:45:ARG:CG	2.58	0.51
50:BS:63:THR:O	50:BS:66:ALA:N	2.42	0.51
51:BT:25:GLY:O	51:BT:48:ILE:HG22	2.10	0.51
52:BU:21:ALA:HB2	52:BU:39:LEU:CD2	2.29	0.51
52:BU:17:ILE:CG2	52:BU:39:LEU:HD11	2.41	0.51
57:BZ:153:SER:HA	57:BZ:155:LEU:CD2	2.40	0.51
57:BZ:30:ASN:O	57:BZ:32:HIS:N	2.43	0.51
1:AA:260:G:O2'	1:AA:261:U:H5'	2.11	0.51
1:AA:66:G:O4'	1:AA:173:U:C4	2.64	0.51
1:AA:805:C:C2'	1:AA:806:C:H5'	2.41	0.51
1:AA:80:G:H1	1:AA:90:U:H5'	1.76	0.51
2:AB:7:VAL:CG1	2:AB:11:LEU:HD12	2.41	0.51
3:AC:52:LEU:CB	3:AC:70:VAL:HG22	2.39	0.51
1:AA:9:G:OP2	5:AE:121:LYS:HD2	2.11	0.51
13:AM:97:PRO:HB2	13:AM:101:GLN:HE21	1.75	0.51
14:AN:12:ARG:CB	14:AN:14:PRO:HD2	2.37	0.51
19:AS:31:ILE:HG23	19:AS:49:ILE:HA	1.93	0.51
22:AV:17(A):U:O2'	22:AV:18:G:C4'	2.54	0.51
26:B1:83:GLU:OE1	26:B1:83:GLU:N	2.44	0.51
30:B5:45:VAL:HG13	30:B5:51:TYR:H	1.76	0.51
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.72	0.51
35:BA:572:A:C2	35:BA:2033:A:C2	2.98	0.51
35:BA:2143:C:O2'	35:BA:2144:U:H5'	2.11	0.51
35:BA:2196:C:O2'	35:BA:2197:U:H5'	2.10	0.51
35:BA:2870:C:C2'	35:BA:2871:C:H5'	2.41	0.51
35:BA:296:C:H42	35:BA:342:G:H1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:391:G:C2'	35:BA:392:C:H5'	2.41	0.51
35:BA:412:A:C2	35:BA:413:C:H1'	2.46	0.51
35:BA:593:G:H2'	35:BA:594:U:O4'	2.10	0.51
35:BA:699:A:C8	35:BA:734:A:C2	2.99	0.51
35:BA:977:G:H2'	35:BA:978:G:C8	2.43	0.51
39:BE:112:GLY:HA2	39:BE:159:HIS:CD2	2.46	0.51
35:BA:1248:G:OP1	40:BF:92:PRO:HG3	2.10	0.51
42:BH:108:GLY:O	42:BH:109:PHE:C	2.49	0.51
35:BA:942:G:H5''	47:BP:36:LYS:N	2.26	0.51
35:BA:943:U:OP2	47:BP:38:GLN:NE2	2.44	0.51
47:BP:47:ASP:CB	47:BP:48:PRO:CA	2.76	0.51
48:BQ:5:ARG:C	48:BQ:6:ARG:HG2	2.30	0.51
51:BT:8:LYS:CA	51:BT:11:GLU:OE2	2.59	0.51
55:BX:6:ASP:O	55:BX:9:LEU:CD2	2.59	0.51
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.10	0.51
1:AA:1179:A:OP2	9:AI:93:ARG:NH2	2.44	0.51
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.11	0.51
1:AA:1382:C:O2'	1:AA:1383:C:H5'	2.10	0.51
1:AA:1414:U:C2'	1:AA:1415:G:H8	2.21	0.51
1:AA:623:C:H3'	1:AA:624:C:H6	1.76	0.51
2:AB:42:ILE:CD1	2:AB:203:GLY:HA2	2.40	0.51
2:AB:187:LEU:CD1	2:AB:205:ASP:HB3	2.40	0.51
3:AC:88:ARG:CG	3:AC:88:ARG:HH11	2.24	0.51
3:AC:92:ALA:O	3:AC:95:THR:N	2.29	0.51
9:AI:63:ILE:HD13	9:AI:77:ILE:CD1	2.41	0.51
12:AL:75:HIS:CD2	12:AL:77:LEU:HB2	2.46	0.51
12:AL:82:VAL:C	12:AL:83:VAL:HG22	2.30	0.51
13:AM:90:LEU:H	13:AM:90:LEU:CD2	2.03	0.51
17:AQ:29:HIS:HA	17:AQ:36:ILE:HD11	1.93	0.51
1:AA:1319:A:OP1	19:AS:5:LEU:HD23	2.11	0.51
19:AS:7:LYS:HB2	19:AS:7:LYS:HZ2	1.76	0.51
20:AT:12:ALA:C	20:AT:14:LYS:N	2.61	0.51
22:AV:40:C:H2'	22:AV:41:C:C6	2.46	0.51
22:AV:48:C:P	22:AV:48:C:H6	2.34	0.51
24:AY:15:THR:O	24:AY:106:VAL:HG23	2.11	0.51
25:B0:35:ASN:OD1	35:BA:2353:G:O2'	2.23	0.51
31:B6:42:TRP:CE3	31:B6:42:TRP:HA	2.45	0.51
35:BA:1108:U:H5'	35:BA:1109:C:OP2	2.11	0.51
35:BA:1264:G:H3'	35:BA:1265:A:H5''	1.93	0.51
35:BA:1453:U:H5	35:BA:2702:U:O4	1.94	0.51
35:BA:144:C:H2'	35:BA:145:G:H8	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1551:C:H2'	35:BA:1552:G:H5'	1.92	0.51
35:BA:1907:G:C5	35:BA:1908:C:C4	2.98	0.51
35:BA:2026:C:C2	35:BA:2027:G:C8	2.99	0.51
35:BA:2072:G:H2'	35:BA:2073:C:O4'	2.10	0.51
33:B8:26:LYS:NZ	35:BA:2361:A:OP2	2.29	0.51
35:BA:249:C:H2'	35:BA:2395:C:P	2.51	0.51
35:BA:2580:U:H5	35:BA:2581:G:C6	2.25	0.51
35:BA:2766:G:H2'	35:BA:2767:C:C6	2.46	0.51
35:BA:401:A:H2'	35:BA:402:A:H8	1.76	0.51
35:BA:754:C:H2'	35:BA:755:C:H6	1.66	0.51
35:BA:874:G:H2'	35:BA:875:G:H8	1.75	0.51
36:BB:116:G:N3	36:BB:117:G:C8	2.79	0.51
37:BC:180:PHE:CD2	37:BC:184:LYS:HG3	2.41	0.51
37:BC:75:LEU:O	37:BC:76:ALA:HB2	2.11	0.51
38:BD:4:LYS:CE	38:BD:20:ASP:OD1	2.57	0.51
38:BD:247:ALA:HB2	38:BD:253:GLN:HG2	1.93	0.51
38:BD:248:SER:CB	38:BD:252:TRP:CZ2	2.94	0.51
39:BE:96:PHE:HD1	39:BE:100:GLU:OE1	1.94	0.51
41:BG:102:PHE:HD1	41:BG:103:LEU:N	2.08	0.51
42:BH:162:ILE:CG1	42:BH:162:ILE:O	2.59	0.51
45:BN:57:ALA:CB	45:BN:124:ALA:HA	2.41	0.51
39:BE:111:ARG:HA	49:BR:2:ARG:HG2	1.92	0.51
49:BR:92:GLY:C	49:BR:94:TYR:CE1	2.84	0.51
50:BS:34:HIS:HB3	50:BS:53:SER:HB3	1.93	0.51
45:BN:40:PRO:HB3	52:BU:64:ARG:O	2.10	0.51
52:BU:66:ASN:ND2	52:BU:66:ASN:O	2.41	0.51
35:BA:572:A:OP2	53:BV:78:LYS:NZ	2.44	0.51
53:BV:66:ARG:HA	53:BV:90:PRO:HA	1.92	0.51
35:BA:139(A):G:N2	55:BX:44:GLU:OE1	2.33	0.51
56:BY:15:VAL:CG1	56:BY:15:VAL:O	2.59	0.51
56:BY:95:LYS:HA	56:BY:101:LYS:HA	1.93	0.51
56:BY:96:ILE:HG13	56:BY:99:CYS:HB2	1.93	0.51
57:BZ:100:VAL:HG23	57:BZ:126:VAL:HG22	1.89	0.51
57:BZ:65:GLN:HB3	57:BZ:67:LEU:HD11	1.93	0.51
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.74	0.51
1:AA:1093:A:H2	1:AA:1109:C:O2	1.93	0.51
2:AB:129:GLU:O	2:AB:130:ARG:O	2.29	0.51
4:AD:111:ALA:HB3	4:AD:117:ALA:HB2	1.93	0.51
8:AH:1:MET:HE2	8:AH:1:MET:H2	1.73	0.51
9:AI:53:VAL:O	9:AI:55:ALA:N	2.44	0.51
1:AA:1357:A:HO2'	14:AN:34:TYR:HE1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:11:VAL:O	15:AO:15:PHE:HD1	1.93	0.51
15:AO:3:ILE:HD11	15:AO:8:LYS:HE2	1.93	0.51
15:AO:3:ILE:HG13	15:AO:8:LYS:HG2	1.93	0.51
19:AS:16:LEU:C	19:AS:18:LYS:N	2.64	0.51
20:AT:53:LEU:O	20:AT:54:LYS:C	2.49	0.51
24:AY:445:GLN:O	24:AY:448:VAL:CB	2.53	0.51
28:B3:45:GLY:O	28:B3:48:GLU:N	2.44	0.51
35:BA:1293:C:H2'	35:BA:1294:U:C6	2.43	0.51
35:BA:1777:U:O2'	35:BA:1778:U:H5'	2.11	0.51
35:BA:2125:G:N2	35:BA:2172:U:OP1	2.42	0.51
35:BA:2187:G:H2'	35:BA:2188:C:C5'	2.34	0.51
35:BA:2306:C:C5	35:BA:2307:G:O2'	2.58	0.51
33:B8:8:LYS:HZ3	35:BA:243:U:H5''	1.76	0.51
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.09	0.51
35:BA:334:C:P	35:BA:335:C:H41	2.33	0.51
35:BA:459:U:C2	35:BA:460:A:C8	2.99	0.51
35:BA:654(M):C:H2'	35:BA:654(N):G:H8	1.72	0.51
35:BA:832:G:P	47:BP:40:SER:HB3	2.50	0.51
35:BA:958:U:H3'	35:BA:958:U:C6	2.45	0.51
37:BC:14:VAL:HG23	37:BC:32:LEU:HD21	1.92	0.51
37:BC:45:ALA:HB3	37:BC:171:ILE:HG21	1.93	0.51
38:BD:155:LEU:O	38:BD:156:ALA:HB3	2.11	0.51
38:BD:214:TRP:CD1	38:BD:214:TRP:N	2.79	0.51
38:BD:35:LYS:CG	38:BD:63:ARG:HG2	2.40	0.51
38:BD:45:ASN:N	38:BD:45:ASN:HD22	2.09	0.51
40:BF:185:ASP:O	40:BF:188:ARG:HG2	2.10	0.51
42:BH:103:LEU:O	42:BH:105:LEU:N	2.44	0.51
45:BN:25:ARG:C	45:BN:28:THR:HG22	2.32	0.51
46:BO:24:VAL:O	46:BO:24:VAL:CG2	2.59	0.51
35:BA:2684:U:O4'	46:BO:70:LYS:HD2	2.10	0.51
48:BQ:31:ASP:O	48:BQ:32:TYR:CD1	2.64	0.51
51:BT:27:THR:O	51:BT:28:VAL:CB	2.59	0.51
51:BT:16:ARG:NH2	51:BT:82:LEU:O	2.43	0.51
52:BU:19:LYS:C	52:BU:21:ALA:N	2.59	0.51
52:BU:74:LEU:HD13	52:BU:75:ASN:N	2.24	0.51
52:BU:76:TYR:CE1	52:BU:80:ILE:HG13	2.45	0.51
52:BU:85:LYS:HG2	52:BU:116:ALA:HB1	1.93	0.51
56:BY:28:LYS:HG2	56:BY:39:VAL:HA	1.93	0.51
56:BY:82:PRO:O	56:BY:96:ILE:HG22	2.11	0.51
1:AA:1013:G:N2	1:AA:1016:A:OP2	2.44	0.51
1:AA:1026:G:H5'	1:AA:1027:C:OP2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1149:C:H2'	1:AA:1150:U:H6	1.70	0.51
1:AA:1187:G:N3	1:AA:1187:G:H2'	2.26	0.51
1:AA:1432:G:N2	1:AA:1469:G:C6	2.79	0.51
1:AA:1518:A:C2	1:AA:1519:A:C2	2.99	0.51
1:AA:300:A:H1'	1:AA:565:U:O2	2.11	0.51
1:AA:356:A:H2	1:AA:368:U:O2	1.94	0.51
1:AA:42:G:H2'	1:AA:43:C:C6	2.46	0.51
1:AA:868:C:H2'	1:AA:869:G:C5'	2.40	0.51
1:AA:882:C:O2'	1:AA:883:C:H5'	2.11	0.51
2:AB:28:PHE:O	2:AB:28:PHE:HD1	1.93	0.51
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.24	0.51
5:AE:91:LEU:CD1	5:AE:120:THR:HB	2.41	0.51
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.11	0.51
7:AG:17:VAL:C	7:AG:19:GLY:H	2.14	0.51
10:AJ:6:ILE:C	10:AJ:71:LEU:HD12	2.30	0.51
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.20	0.51
13:AM:46:LYS:HG2	13:AM:46:LYS:O	2.11	0.51
13:AM:4:ILE:HG23	13:AM:57:ARG:HB2	1.93	0.51
15:AO:42:HIS:O	15:AO:45:VAL:HG12	2.11	0.51
20:AT:53:LEU:HD11	20:AT:92:LEU:HD13	1.93	0.51
24:AY:131:ARG:HH22	24:AY:162:LEU:HD13	1.76	0.51
24:AY:15:THR:O	24:AY:106:VAL:CG2	2.59	0.51
24:AY:144:LEU:HD12	24:AY:179:PHE:HE1	1.71	0.51
24:AY:198:GLY:HA2	24:AY:262:ASN:CG	2.31	0.51
25:B0:32:ARG:H	25:B0:35:ASN:ND2	2.08	0.51
26:B1:85:LEU:O	26:B1:87:PRO:HD3	2.10	0.51
27:B2:57:ILE:O	27:B2:60:LEU:HB2	2.10	0.51
28:B3:54:VAL:CG1	28:B3:55:ARG:N	2.74	0.51
35:BA:1011:G:C2	35:BA:1013:C:C2	2.99	0.51
35:BA:1494:A:C3'	35:BA:1494:A:N3	2.74	0.51
35:BA:1826:G:C2	35:BA:1827:C:C6	2.99	0.51
35:BA:1977:A:C2'	35:BA:1978:A:O4'	2.55	0.51
35:BA:2199:A:C5'	35:BA:2200:C:OP2	2.49	0.51
35:BA:2249:U:H4'	35:BA:2275:C:C5	2.46	0.51
35:BA:363:G:H2'	35:BA:363(A):A:H8	1.76	0.51
35:BA:491:G:H2'	35:BA:492:A:C8	2.46	0.51
35:BA:527:C:O5'	35:BA:2779:U:H5	1.92	0.51
35:BA:7:G:H2'	35:BA:8:A:H8	1.76	0.51
35:BA:847:U:C2'	35:BA:848:G:H5''	2.38	0.51
37:BC:181:PRO:CB	37:BC:182:PRO:CD	2.87	0.51
37:BC:80:GLY:O	37:BC:83:ILE:HD12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:17:THR:O	38:BD:211:ARG:NH2	2.38	0.51
38:BD:263:ARG:NH1	38:BD:263:ARG:HB3	2.26	0.51
35:BA:2223:G:C4'	38:BD:269:PHE:HZ	2.23	0.51
38:BD:45:ASN:ND2	38:BD:46:GLN:H	2.09	0.51
35:BA:2830:G:OP1	39:BE:75:VAL:CG1	2.58	0.51
40:BF:203:GLN:O	40:BF:205:ARG:N	2.43	0.51
35:BA:2305:A:C5'	41:BG:134:GLY:HA3	2.05	0.51
43:BJ:118:UNK:O	43:BJ:119:UNK:CB	2.59	0.51
45:BN:118:LYS:O	45:BN:120:LEU:N	2.44	0.51
51:BT:91:ARG:O	51:BT:117:ASP:CB	2.58	0.51
51:BT:92:GLY:C	51:BT:94:ALA:N	2.63	0.51
53:BV:38:LEU:C	53:BV:39:LEU:HD13	2.31	0.51
54:BW:10:VAL:O	54:BW:11:ARG:CB	2.59	0.51
54:BW:14:PRO:HG3	54:BW:101:SER:CB	2.29	0.51
54:BW:43:GLY:C	54:BW:45:TYR:H	2.13	0.51
56:BY:60:PHE:HA	56:BY:62:GLU:OE1	2.11	0.51
1:AA:1151:A:C4	1:AA:1152:A:C8	2.99	0.50
1:AA:1201:A:H4'	1:AA:1202:G:H5"	1.93	0.50
1:AA:1309:G:C2'	1:AA:1310:G:H5'	2.40	0.50
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.69	0.50
1:AA:265:G:H2'	1:AA:267:C:C5	2.38	0.50
1:AA:276:G:O3'	17:AQ:68:ARG:NH1	2.45	0.50
1:AA:279:A:C8	1:AA:281:G:N2	2.78	0.50
1:AA:346:G:O2'	1:AA:347:G:C8	2.64	0.50
1:AA:88:A:C2	1:AA:89:C:H5	2.28	0.50
1:AA:966:G:N2	1:AA:967:C:C2	2.78	0.50
2:AB:163:PHE:CD1	2:AB:185:ILE:HB	2.46	0.50
2:AB:15:VAL:HG21	2:AB:209:ARG:NE	2.26	0.50
4:AD:175:SER:OG	4:AD:186:LEU:HD21	2.11	0.50
5:AE:87:SER:OG	5:AE:131:ILE:CD1	2.57	0.50
6:AF:25:ILE:O	6:AF:25:ILE:HD13	2.11	0.50
6:AF:71:ARG:NH1	6:AF:71:ARG:HG3	2.26	0.50
1:AA:1342:C:C5'	9:AI:125:TYR:HB3	2.38	0.50
11:AK:57:THR:HG23	11:AK:60:ALA:N	2.19	0.50
12:AL:6:THR:O	12:AL:8:ASN:N	2.45	0.50
14:AN:55:GLY:O	14:AN:56:VAL:C	2.48	0.50
1:AA:229:U:OP1	16:AP:59:TRP:CH2	2.64	0.50
18:AR:22:VAL:HG11	18:AR:43:PHE:CD1	2.46	0.50
24:AY:186:TYR:N	24:AY:186:TYR:CD1	2.79	0.50
24:AY:226:GLN:HE22	42:BH:97:ARG:CZ	2.24	0.50
24:AY:267:HIS:H	24:AY:267:HIS:CD2	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:312:ARG:NH1	24:AY:370:HIS:HB3	2.25	0.50
24:AY:378:THR:OG1	24:AY:386:LYS:HG2	2.11	0.50
24:AY:389:GLY:O	24:AY:390:ILE:CB	2.59	0.50
28:B3:41:PRO:O	28:B3:44:ARG:HB3	2.11	0.50
35:BA:1060:U:H5'	35:BA:1061:U:H5	1.75	0.50
35:BA:1164:G:H1	35:BA:1185:C:H42	1.59	0.50
35:BA:1720:U:H2'	35:BA:1721:G:O4'	2.11	0.50
35:BA:2009:G:C5'	54:BW:40:ASN:ND2	2.74	0.50
35:BA:2090:G:C6	35:BA:2091:U:C4	2.99	0.50
35:BA:2247:A:H2'	35:BA:2248:C:C6	2.47	0.50
35:BA:2455:G:O2'	35:BA:2456:C:H5'	2.12	0.50
35:BA:2464:C:N3	35:BA:2487:G:C2	2.79	0.50
35:BA:2535:G:H2'	35:BA:2536:G:O4'	2.12	0.50
35:BA:30:G:H2'	35:BA:31:C:O4'	2.11	0.50
32:B7:38:GLY:O	35:BA:458:G:H5''	2.11	0.50
35:BA:779:U:H2'	35:BA:780:G:O4'	2.10	0.50
35:BA:845:G:HO2'	35:BA:846:C:H5	1.57	0.50
35:BA:908:C:O2'	35:BA:909:A:C5'	2.57	0.50
35:BA:954:G:OP1	48:BQ:15:GLY:HA2	2.11	0.50
37:BC:114:VAL:HG12	37:BC:144:THR:HB	1.93	0.50
39:BE:126:PRO:C	39:BE:128:SER:H	2.14	0.50
39:BE:198:VAL:HG12	39:BE:199:ARG:H	1.72	0.50
39:BE:33:VAL:HG11	39:BE:88:GLY:C	2.31	0.50
39:BE:9:VAL:HG12	39:BE:25:VAL:C	2.31	0.50
40:BF:158:THR:HG23	40:BF:160:ASN:H	1.76	0.50
40:BF:194:MET:SD	40:BF:199:TRP:HD1	2.34	0.50
42:BH:154:PRO:O	42:BH:155:SER:OG	2.26	0.50
35:BA:1138:G:O2'	45:BN:102:ALA:O	2.29	0.50
45:BN:28:THR:N	45:BN:106:MET:HE3	2.26	0.50
46:BO:8:LEU:N	46:BO:8:LEU:HD12	2.26	0.50
48:BQ:111:GLU:O	48:BQ:113:GLN:N	2.44	0.50
35:BA:910:A:N6	48:BQ:13:GLN:H	2.09	0.50
48:BQ:16:ARG:CG	48:BQ:17:LEU:H	2.24	0.50
49:BR:99:LYS:N	49:BR:99:LYS:HD2	2.22	0.50
50:BS:94:TYR:CD1	50:BS:94:TYR:O	2.63	0.50
52:BU:88:ILE:HD12	52:BU:90:VAL:HG23	1.93	0.50
52:BU:96:ALA:O	52:BU:99:ALA:N	2.38	0.50
53:BV:39:LEU:HA	53:BV:47:VAL:CG1	2.40	0.50
35:BA:328:U:H4'	56:BY:68:HIS:CE1	2.47	0.50
57:BZ:109:ALA:O	57:BZ:111:VAL:N	2.45	0.50
1:AA:1068:G:N7	1:AA:1094:G:H2'	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.75	0.50
1:AA:1371:G:H2'	1:AA:1372:U:H6	1.72	0.50
1:AA:1397:C:O4'	1:AA:1397:C:O2	2.29	0.50
1:AA:347:G:H21	1:AA:348:G:H1'	1.77	0.50
1:AA:62:U:H4'	1:AA:385:C:O2	2.11	0.50
1:AA:552:U:C2	1:AA:553:A:C8	3.00	0.50
1:AA:708:C:H2'	1:AA:709:G:H8	1.76	0.50
1:AA:783:C:O2'	1:AA:784:C:H5'	2.11	0.50
1:AA:834:C:C2	1:AA:853:G:C2	2.99	0.50
1:AA:833:U:H3	1:AA:853:G:H1	1.58	0.50
1:AA:981:U:H2'	1:AA:982:U:C6	2.47	0.50
2:AB:67:THR:HG22	2:AB:90:MET:CE	2.41	0.50
2:AB:69:LEU:HD12	2:AB:71:VAL:CG2	2.41	0.50
4:AD:12:CYS:SG	4:AD:19:LEU:CB	2.98	0.50
6:AF:14:LEU:CD1	6:AF:18:GLN:HB2	2.40	0.50
6:AF:47:ARG:HB3	6:AF:47:ARG:HH11	1.68	0.50
8:AH:56:LYS:O	8:AH:58:TYR:HD2	1.94	0.50
9:AI:46:ALA:HB2	9:AI:74:ILE:HG23	1.94	0.50
9:AI:6:GLY:HA3	9:AI:84:ALA:HB2	1.92	0.50
19:AS:38:SER:O	19:AS:70:LYS:HA	2.10	0.50
22:AV:37:A:C2'	22:AV:38:A:H5'	2.41	0.50
22:AV:64:G:H2'	22:AV:65:C:O4'	2.10	0.50
26:B1:7:ILE:HD13	26:B1:69:LYS:CG	2.41	0.50
26:B1:91:LYS:O	26:B1:93:GLU:N	2.44	0.50
33:B8:61:LEU:HD13	33:B8:62:LEU:HG	1.93	0.50
35:BA:999:U:C6	35:BA:1154:G:C6	2.99	0.50
35:BA:1160:G:C2'	35:BA:1161:C:H5'	2.42	0.50
28:B3:30:ARG:HG3	35:BA:1184:G:OP1	2.12	0.50
35:BA:1385:G:HO2'	35:BA:1396:U:H6	1.60	0.50
35:BA:1399:C:O5'	35:BA:1399:C:H6	1.94	0.50
35:BA:2101:G:H3'	35:BA:2102:U:H5''	1.93	0.50
35:BA:827:U:O2	35:BA:2246:G:H4'	2.11	0.50
35:BA:2264:C:C4	35:BA:2265:U:C4	3.00	0.50
35:BA:792:G:H2'	35:BA:2440:C:O2	2.11	0.50
35:BA:2564:A:N6	35:BA:2565:A:N6	2.59	0.50
35:BA:12:U:H1'	35:BA:2627:G:OP1	2.12	0.50
35:BA:646:A:N3	35:BA:646:A:H5'	2.26	0.50
35:BA:209:C:C4'	35:BA:681:G:H4'	2.42	0.50
35:BA:792:G:N7	35:BA:2440:C:H1'	2.26	0.50
36:BB:106:G:O2'	36:BB:107:G:H5'	2.10	0.50
36:BB:10:C:N4	36:BB:11:C:H41	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:175:VAL:CG1	37:BC:188:ASN:HB2	2.41	0.50
37:BC:67:GLY:H	37:BC:188:ASN:HD21	1.60	0.50
38:BD:227:ASN:HD22	38:BD:228:PRO:HD2	1.76	0.50
38:BD:274:ARG:HG3	38:BD:274:ARG:NH1	2.25	0.50
38:BD:33:LEU:HD21	38:BD:34:VAL:HG22	1.93	0.50
38:BD:35:LYS:N	38:BD:36:PRO:CD	2.59	0.50
38:BD:21:PHE:CD1	38:BD:91:ARG:NH2	2.79	0.50
39:BE:116:VAL:HG22	39:BE:122:PHE:CG	2.46	0.50
39:BE:186:GLY:O	39:BE:187:ALA:HB3	2.11	0.50
39:BE:202:LYS:HD2	39:BE:202:LYS:N	2.26	0.50
40:BF:42:ALA:C	40:BF:44:ARG:H	2.15	0.50
40:BF:65:TRP:HZ3	40:BF:73:ALA:O	1.94	0.50
41:BG:43:LEU:HB3	41:BG:45:GLU:HG2	1.92	0.50
42:BH:120:GLY:O	42:BH:121:ILE:HG12	2.11	0.50
46:BO:11:ALA:O	46:BO:98:VAL:HA	2.11	0.50
46:BO:71:ARG:NH2	46:BO:77:ILE:HB	2.26	0.50
49:BR:37:THR:HG23	49:BR:40:LYS:HE2	1.93	0.50
49:BR:99:LYS:CD	49:BR:99:LYS:H	2.21	0.50
52:BU:108:GLU:O	52:BU:110:VAL:N	2.44	0.50
52:BU:113:ALA:C	52:BU:115:ALA:N	2.65	0.50
57:BZ:16:SER:C	57:BZ:20:ARG:HG2	2.31	0.50
57:BZ:24:LEU:HD21	57:BZ:86:VAL:HG23	1.93	0.50
1:AA:18:C:C1'	1:AA:1079:G:H21	2.25	0.50
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.64	0.50
1:AA:1269:A:H61	1:AA:1312:G:C2'	2.24	0.50
1:AA:280:C:N4	17:AQ:91:ARG:NE	2.60	0.50
1:AA:405:U:H5''	1:AA:406:G:O4'	2.11	0.50
1:AA:604:G:C6	1:AA:605:U:N3	2.80	0.50
1:AA:59:A:H5'	1:AA:60:A:H5''	1.91	0.50
3:AC:114:PRO:O	3:AC:117:ALA:HB3	2.10	0.50
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	1.92	0.50
6:AF:43:LEU:CD2	6:AF:43:LEU:N	2.75	0.50
9:AI:99:LEU:C	9:AI:101:PHE:H	2.14	0.50
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.73	0.50
12:AL:113:ARG:CB	12:AL:122:THR:HG21	2.41	0.50
24:AY:113:ILE:HG22	24:AY:118:GLY:HA2	1.92	0.50
24:AY:108:CYS:HA	24:AY:136:PRO:HG2	1.94	0.50
24:AY:282:ARG:O	24:AY:283:GLN:HB2	2.10	0.50
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.77	0.50
34:B9:11:CYS:SG	34:B9:27:CYS:SG	3.09	0.50
34:B9:16:VAL:CG1	35:BA:1032:A:H4'	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1060:U:H1'	35:BA:1061:U:O5'	2.12	0.50
35:BA:1214:A:H2'	35:BA:1215:G:O4'	2.11	0.50
35:BA:812:C:H1'	35:BA:1250:G:C2	2.46	0.50
35:BA:1296:G:OP1	35:BA:2709:G:H4'	2.11	0.50
35:BA:1453:U:H4'	35:BA:1455:G:OP1	2.12	0.50
35:BA:1605:C:H2'	35:BA:1606:G:C5'	2.41	0.50
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.41	0.50
35:BA:289:A:C6	35:BA:290:G:C6	2.99	0.50
35:BA:582:G:H2'	35:BA:583:G:C8	2.46	0.50
35:BA:591:C:C2	35:BA:592:G:C8	2.99	0.50
35:BA:673:C:C2	35:BA:808:G:N2	2.80	0.50
35:BA:888:C:H2'	35:BA:888:C:O2	2.11	0.50
35:BA:996:A:OP1	53:BV:10:LYS:HD2	2.11	0.50
37:BC:128:GLY:HA3	37:BC:137:LEU:HD23	1.90	0.50
37:BC:3:HIS:CG	37:BC:7:TYR:CD2	2.99	0.50
38:BD:123:ALA:HB3	38:BD:131:LEU:CD2	2.41	0.50
38:BD:144:ALA:H	38:BD:156:ALA:HB3	1.75	0.50
35:BA:2787:C:C1'	39:BE:61:ARG:HD3	2.41	0.50
40:BF:195:ASP:HB3	40:BF:198:ALA:H	1.75	0.50
40:BF:5:ALA:HB1	40:BF:123:LEU:HD21	1.93	0.50
42:BH:118:PRO:HD2	42:BH:121:ILE:CB	2.41	0.50
44:BK:82:UNK:CB	44:BK:98:UNK:N	2.73	0.50
47:BP:16:ARG:HD3	47:BP:16:ARG:C	2.32	0.50
47:BP:83:VAL:CG1	47:BP:112:LEU:HD21	2.41	0.50
51:BT:45:PHE:CE1	51:BT:74:ARG:HG3	2.45	0.50
51:BT:89:VAL:CG1	51:BT:91:ARG:HE	2.24	0.50
53:BV:23:GLU:OE2	53:BV:89:GLN:NE2	2.45	0.50
54:BW:40:ASN:O	54:BW:41:LYS:HG2	2.11	0.50
56:BY:46:LYS:CG	56:BY:47:LYS:H	2.23	0.50
57:BZ:129:SER:HB3	57:BZ:131:ARG:HD3	1.93	0.50
57:BZ:151:HIS:HA	57:BZ:171:ILE:CG2	2.41	0.50
1:AA:1057:G:C6	1:AA:1058:G:C4	3.00	0.50
1:AA:976:G:OP2	1:AA:1358:U:O2'	2.29	0.50
1:AA:1408:A:O2'	1:AA:1409:C:H5'	2.11	0.50
1:AA:1485:U:O2'	1:AA:1486:G:H5'	2.11	0.50
1:AA:49:U:C4	1:AA:364:A:C5	2.99	0.50
1:AA:577:G:H8	1:AA:577:G:OP1	1.95	0.50
1:AA:744:C:O2'	1:AA:745:C:H5'	2.10	0.50
1:AA:571:U:OP1	1:AA:819:A:N3	2.44	0.50
1:AA:858:G:H8	1:AA:858:G:O5'	1.95	0.50
1:AA:980:C:H5	1:AA:981:U:C2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:102:LEU:O	2:AB:105:PHE:CB	2.58	0.50
3:AC:95:THR:HG22	3:AC:95:THR:O	2.11	0.50
7:AG:119:ARG:O	7:AG:120:ILE:C	2.50	0.50
7:AG:65:ALA:HB3	7:AG:124:LEU:HD23	1.91	0.50
12:AL:89:ARG:HD3	12:AL:90:VAL:H	1.74	0.50
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.80	0.50
14:AN:38:GLY:O	14:AN:39:LEU:HD23	2.11	0.50
19:AS:12:ASP:OD2	19:AS:14:HIS:CE1	2.64	0.50
19:AS:42:PRO:O	19:AS:43:GLU:CB	2.59	0.50
24:AY:10:VAL:HG12	24:AY:279:PRO:HG3	1.87	0.50
24:AY:162:LEU:O	24:AY:163:LYS:HB2	2.11	0.50
32:B7:1:MET:O	32:B7:2:LYS:C	2.49	0.50
35:BA:1206:G:C2	35:BA:1207:C:C2	2.99	0.50
35:BA:1257:C:O2'	40:BF:83:PHE:HD1	1.93	0.50
35:BA:1259:G:H2'	35:BA:1260:G:H8	1.76	0.50
35:BA:1287:A:H2'	35:BA:1288:U:H5'	1.92	0.50
35:BA:143:G:OP1	35:BA:1598:C:H1'	2.11	0.50
35:BA:1510:G:C2	35:BA:1511:C:C2	3.00	0.50
35:BA:1394:U:H5''	35:BA:1603:A:O3'	2.12	0.50
35:BA:2093:G:C6	35:BA:2225:A:C8	2.98	0.50
35:BA:2132:U:O5'	35:BA:2132:U:H6	1.94	0.50
35:BA:2154:G:N1	35:BA:2155:G:N7	2.60	0.50
35:BA:2180:U:H6	35:BA:2181:G:N7	2.09	0.50
35:BA:2280:G:C2	35:BA:2281:C:C6	2.99	0.50
35:BA:2315:G:H4'	41:BG:130:ASN:ND2	2.27	0.50
35:BA:272(H):C:O5'	35:BA:272(H):C:C6	2.63	0.50
35:BA:649:G:C2	35:BA:650:C:C2	3.00	0.50
36:BB:114:C:H2'	36:BB:115:G:C8	2.46	0.50
37:BC:21:THR:O	37:BC:25:ALA:HB3	2.11	0.50
37:BC:25:ALA:HB2	37:BC:224:ILE:HG22	1.91	0.50
37:BC:51:PRO:HG2	37:BC:52:ARG:HD3	1.92	0.50
42:BH:83:TYR:HB3	42:BH:135:GLY:H	1.76	0.50
42:BH:92:ILE:HD11	42:BH:95:ARG:NH2	2.26	0.50
35:BA:1060:U:O3'	44:BK:1:UNK:N	2.44	0.50
46:BO:105:GLU:HA	46:BO:108:GLU:CD	2.31	0.50
47:BP:65:ARG:HB3	47:BP:68:GLN:NE2	2.26	0.50
48:BQ:26:TYR:O	48:BQ:102:VAL:HG21	2.11	0.50
48:BQ:76:LYS:HB3	48:BQ:91:GLU:CG	2.41	0.50
50:BS:34:HIS:CB	50:BS:36:TYR:HE1	2.24	0.50
50:BS:96:GLY:O	50:BS:98:VAL:N	2.39	0.50
51:BT:60:THR:HG22	51:BT:76:PHE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:99:TYR:CD1	57:BZ:125:LEU:HA	2.46	0.50
1:AA:11:G:H2'	1:AA:12:U:O4'	2.11	0.50
1:AA:46:G:HO2'	1:AA:365:U:H1'	1.76	0.50
1:AA:575:G:OP1	1:AA:576:G:OP1	2.30	0.50
1:AA:67:C:C6	1:AA:67:C:C3'	2.95	0.50
1:AA:773:G:C5'	38:BD:203:ASN:ND2	2.74	0.50
1:AA:828:A:H3'	1:AA:828:A:C8	2.45	0.50
2:AB:97:TRP:CZ3	2:AB:172:ILE:HB	2.47	0.50
2:AB:170:GLU:C	2:AB:172:ILE:N	2.64	0.50
3:AC:122:GLU:O	3:AC:125:GLU:HB2	2.12	0.50
1:AA:1106:G:H5''	3:AC:172:ARG:HG2	1.93	0.50
4:AD:121:VAL:O	4:AD:134:ASP:CB	2.59	0.50
5:AE:91:LEU:HD12	5:AE:120:THR:HB	1.93	0.50
9:AI:18:PHE:HB2	9:AI:62:TYR:HB3	1.92	0.50
11:AK:58:PRO:O	11:AK:61:ALA:HB3	2.12	0.50
13:AM:64:TRP:O	13:AM:66:LEU:CD1	2.60	0.50
1:AA:764:C:H5''	15:AO:50:HIS:CD2	2.46	0.50
16:AP:3:LYS:HD2	16:AP:24:ALA:HB2	1.92	0.50
19:AS:4:SER:O	19:AS:5:LEU:O	2.29	0.50
24:AY:155:LEU:HD12	24:AY:155:LEU:N	2.23	0.50
24:AY:138:LEU:HD22	24:AY:253:PRO:CG	2.34	0.50
26:B1:44:PRO:HB2	26:B1:46:LEU:HD23	1.93	0.50
29:B4:40:HIS:HD2	29:B4:42:PHE:CE1	2.30	0.50
35:BA:1456:G:C2	35:BA:2704:C:C2	3.00	0.50
35:BA:186:G:O2'	35:BA:187:G:H5'	2.12	0.50
35:BA:1887:C:H2'	35:BA:1888:G:C5'	2.42	0.50
35:BA:2044:C:C2	35:BA:2625:G:C2	2.99	0.50
35:BA:2163:C:C2'	35:BA:2164:C:H5'	2.41	0.50
35:BA:2167:U:H3	35:BA:2171:A:H62	1.60	0.50
35:BA:2244:U:O4'	35:BA:2434:A:C6	2.65	0.50
35:BA:2261:C:O2'	35:BA:2262:U:H5'	2.11	0.50
35:BA:2293:C:N4	35:BA:2294:C:N4	2.59	0.50
35:BA:2322:A:N6	35:BA:2323:G:C6	2.80	0.50
35:BA:2420:C:H2'	35:BA:2421:G:C8	2.47	0.50
35:BA:2506:U:OP2	35:BA:2576:G:N1	2.42	0.50
35:BA:2589:A:H2'	35:BA:2590:A:H8	1.76	0.50
35:BA:2689:U:H4'	35:BA:2690:C:H5'	1.92	0.50
35:BA:2692:C:C1'	35:BA:2847:U:O2'	2.59	0.50
35:BA:2881:C:C5'	49:BR:117:VAL:HG21	2.42	0.50
35:BA:310:A:O2'	35:BA:311:A:H3'	2.11	0.50
35:BA:513:A:H2	35:BA:582:G:H4'	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:869:G:C2'	35:BA:870:A:H5'	2.41	0.50
35:BA:969:U:O5'	35:BA:969:U:H6	1.94	0.50
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.42	0.50
38:BD:80:ALA:HB2	38:BD:96:HIS:NE2	2.25	0.50
40:BF:123:LEU:HD11	40:BF:125:LEU:CD2	2.41	0.50
41:BG:83:ARG:CZ	41:BG:84:LYS:HZ2	2.25	0.50
42:BH:138:LYS:O	42:BH:141:VAL:HG22	2.11	0.50
49:BR:48:VAL:N	49:BR:51:LEU:HD13	2.26	0.50
50:BS:85:VAL:H	50:BS:106:ARG:CA	2.24	0.50
52:BU:18:LEU:O	52:BU:22:LYS:HG2	2.11	0.50
52:BU:74:LEU:HD21	52:BU:79:PHE:HA	1.92	0.50
52:BU:98:LEU:C	52:BU:100:VAL:N	2.62	0.50
53:BV:87:HIS:NE2	53:BV:89:GLN:HG2	2.27	0.50
54:BW:97:LYS:HE3	54:BW:99:ARG:NH1	2.27	0.50
55:BX:55:ASN:O	55:BX:80:ILE:HG12	2.12	0.50
57:BZ:162:GLU:O	57:BZ:163:LEU:O	2.29	0.50
57:BZ:19:ARG:NH1	57:BZ:84:GLU:HG2	2.26	0.50
57:BZ:71:VAL:HG12	57:BZ:73:GLN:H	1.76	0.50
1:AA:1005:A:H5''	1:AA:1038:C:O2	2.11	0.50
1:AA:1014:A:H5''	19:AS:14:HIS:CG	2.46	0.50
1:AA:1491:G:C3'	1:AA:1492:A:H8	2.22	0.50
1:AA:1493:A:HO2'	1:AA:1494:G:C1'	2.25	0.50
1:AA:1493:A:H2'	1:AA:1494:G:C8	2.46	0.50
1:AA:552:U:H2'	1:AA:553:A:H8	1.77	0.50
1:AA:782:A:C8	1:AA:783:C:C5	3.00	0.50
2:AB:63:MET:HG3	2:AB:64:ARG:H	1.76	0.50
3:AC:39:ILE:O	3:AC:42:LEU:HB3	2.12	0.50
3:AC:55:VAL:CG2	3:AC:68:VAL:HG13	2.41	0.50
4:AD:148:VAL:HG23	4:AD:181:MET:HB3	1.93	0.50
4:AD:31:CYS:O	4:AD:32:ALA:CB	2.59	0.50
5:AE:107:ARG:C	5:AE:109:ILE:N	2.62	0.50
6:AF:50:TYR:CD1	6:AF:50:TYR:C	2.84	0.50
8:AH:22:GLU:O	8:AH:63:LEU:HD23	2.12	0.50
11:AK:33:THR:HG22	11:AK:39:PRO:HG3	1.93	0.50
12:AL:123:LYS:O	12:AL:125:PRO:HD3	2.12	0.50
1:AA:759:A:C1'	12:AL:12:ARG:HH22	2.23	0.50
15:AO:53:HIS:HD1	15:AO:53:HIS:C	2.15	0.50
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.94	0.50
18:AR:37:VAL:CG2	18:AR:38:GLU:N	2.73	0.50
21:AU:18:TYR:CE1	21:AU:24:ARG:NH2	2.79	0.50
1:AA:1230:C:OP1	22:AV:30:G:H5''	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:154:LEU:C	24:AY:156:ASP:H	2.14	0.50
24:AY:403:LEU:CD1	24:AY:461:ALA:HB2	2.34	0.50
24:AY:76:GLN:HG2	24:AY:77:PHE:N	2.27	0.50
25:B0:10:THR:HG21	35:BA:2277:G:OP2	2.11	0.50
25:B0:80:HIS:N	25:B0:80:HIS:CD2	2.79	0.50
27:B2:29:LYS:HA	27:B2:32:LEU:CB	2.41	0.50
30:B5:36:CYS:SG	30:B5:48:GLU:O	2.69	0.50
34:B9:36:GLN:CD	35:BA:1124:C:H1'	2.32	0.50
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.12	0.50
35:BA:1125:G:H3'	35:BA:1126:A:C8	2.45	0.50
35:BA:1310:G:H4'	35:BA:1611:C:H5''	1.94	0.50
35:BA:1794:U:O4'	35:BA:1900:A:C2	2.64	0.50
35:BA:1805:U:C2	35:BA:1806:C:C5	2.98	0.50
35:BA:1924:C:HO2'	35:BA:1925:C:H6	1.46	0.50
35:BA:1926:U:O2	35:BA:1926:U:C2'	2.58	0.50
35:BA:1991:U:H5''	35:BA:1991:U:H6	1.76	0.50
35:BA:2514:U:O4'	39:BE:151:TYR:CE2	2.64	0.50
35:BA:1264:G:O3'	35:BA:2615:U:H5'	2.11	0.50
24:AY:146:ARG:HG2	35:BA:2656:U:H4'	1.94	0.50
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.12	0.50
35:BA:2726:U:HO2'	35:BA:2727:G:H8	1.57	0.50
35:BA:2762:G:H8	35:BA:2762:G:C5'	2.24	0.50
35:BA:40:C:H2'	35:BA:41:C:H6	1.77	0.50
35:BA:824:A:C5	35:BA:825:C:C5	2.99	0.50
35:BA:871:U:O3'	48:BQ:69:PHE:CE2	2.64	0.50
35:BA:879:G:C6	35:BA:898:C:N4	2.80	0.50
35:BA:949:C:O2'	35:BA:950:G:H5'	2.11	0.50
36:BB:101:G:C2'	36:BB:102:A:O4'	2.55	0.50
36:BB:117:G:N2	36:BB:118:G:H1'	2.26	0.50
37:BC:14:VAL:HG21	37:BC:32:LEU:HD11	1.94	0.50
37:BC:180:PHE:CB	37:BC:184:LYS:HB3	2.28	0.50
39:BE:9:VAL:CG1	39:BE:25:VAL:CB	2.89	0.50
40:BF:60:SER:OG	40:BF:61:GLY:N	2.44	0.50
41:BG:124:SER:HB2	41:BG:131:TYR:CZ	2.47	0.50
42:BH:85:LYS:HZ2	42:BH:87:LEU:CD1	2.17	0.50
35:BA:1058:G:OP2	44:BK:1:UNK:HA	2.12	0.50
46:BO:4:PRO:HD3	46:BO:24:VAL:CG1	2.41	0.50
54:BW:36:LEU:CD1	54:BW:47:VAL:HG12	2.41	0.50
56:BY:46:LYS:HB3	56:BY:62:GLU:HG3	1.94	0.50
56:BY:78:ALA:HB2	56:BY:81:LYS:NZ	2.27	0.50
1:AA:1003:G:C2	1:AA:1039:C:N3	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1345:U:H5''	9:AI:120:ARG:NH1	2.27	0.50
1:AA:1406:U:C2'	1:AA:1407:C:H5'	2.42	0.50
1:AA:455:C:O2	1:AA:477:A:C2	2.64	0.50
1:AA:572:A:P	1:AA:573:A:OP1	2.70	0.50
2:AB:97:TRP:HZ3	2:AB:172:ILE:CB	2.24	0.50
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.93	0.50
2:AB:88:ALA:O	2:AB:89:GLY:C	2.49	0.50
4:AD:3:ARG:O	4:AD:5:ILE:HG13	2.12	0.50
5:AE:12:LEU:CD2	5:AE:13:ILE:O	2.60	0.50
7:AG:24:THR:HA	7:AG:27:ILE:CB	2.39	0.50
8:AH:111:ILE:HG22	8:AH:112:LEU:N	2.26	0.50
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.26	0.50
11:AK:63:LEU:HA	11:AK:66:LEU:HG	1.94	0.50
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.12	0.50
15:AO:5:LYS:HA	15:AO:8:LYS:CG	2.41	0.50
16:AP:1:MET:O	16:AP:24:ALA:HB2	2.12	0.50
17:AQ:57:VAL:HG21	17:AQ:73:VAL:CG1	2.41	0.50
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.64	0.50
20:AT:71:THR:HG22	20:AT:72:LEU:N	2.27	0.50
24:AY:135:THR:O	24:AY:136:PRO:O	2.30	0.50
24:AY:315:VAL:HG22	24:AY:367:LEU:O	2.11	0.50
24:AY:331:LEU:HD22	24:AY:379:PHE:CG	2.31	0.50
24:AY:387:PHE:HD1	24:AY:387:PHE:N	2.05	0.50
24:AY:63:GLU:OE2	24:AY:70:ILE:HB	2.11	0.50
25:B0:48:GLY:HA3	25:B0:80:HIS:HA	1.94	0.50
26:B1:25:LYS:HB2	35:BA:388:G:OP1	2.12	0.50
30:B5:34:PRO:O	30:B5:35:GLU:HG2	2.11	0.50
35:BA:1247:A:O2'	35:BA:1248:G:H5''	2.12	0.50
35:BA:693:C:H4'	35:BA:1353:A:O2'	2.11	0.50
35:BA:1484:G:C2	35:BA:1506:C:N3	2.79	0.50
35:BA:1719:G:C6	35:BA:1720:U:C4	2.99	0.50
35:BA:1926:U:H3'	35:BA:1927:A:C5'	2.42	0.50
35:BA:225:A:H2'	35:BA:226:G:H5'	1.94	0.50
35:BA:2721:A:H2'	35:BA:2722:G:O4'	2.12	0.50
35:BA:2835:A:H62	35:BA:2878:U:H3'	1.75	0.50
35:BA:331:A:H1'	35:BA:332:A:OP1	2.12	0.50
35:BA:13:A:C2	35:BA:526:A:N7	2.80	0.50
35:BA:524:U:O2'	35:BA:555:U:H4'	2.12	0.50
35:BA:761:A:O5'	35:BA:761:A:C8	2.64	0.50
37:BC:114:VAL:HG21	37:BC:149:ILE:HD11	1.93	0.50
38:BD:111:LEU:HD22	38:BD:127:VAL:HB	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1826:G:H4'	38:BD:242:ARG:NE	2.26	0.50
38:BD:24:ILE:CG2	38:BD:83:GLU:CA	2.88	0.50
40:BF:141:ALA:C	40:BF:143:ALA:N	2.65	0.50
40:BF:157:VAL:O	40:BF:158:THR:HB	2.12	0.50
40:BF:33:LEU:N	40:BF:33:LEU:HD22	2.27	0.50
42:BH:29:PRO:HG2	42:BH:30:LYS:H	1.76	0.50
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.27	0.50
42:BH:67:LEU:O	42:BH:71:LEU:N	2.39	0.50
42:BH:94:TYR:CG	42:BH:107:VAL:HB	2.47	0.50
46:BO:71:ARG:HH12	51:BT:74:ARG:NH2	2.09	0.50
47:BP:115:LEU:HD23	47:BP:115:LEU:N	2.26	0.50
47:BP:47:ASP:HB2	47:BP:51:PHE:CD2	2.43	0.50
35:BA:954:G:OP1	48:BQ:15:GLY:N	2.44	0.50
48:BQ:29:PHE:HB2	48:BQ:105:GLU:OE2	2.12	0.50
50:BS:101:LEU:O	50:BS:102:ALA:O	2.29	0.50
51:BT:107:ASP:CG	51:BT:108:ARG:N	2.65	0.50
51:BT:48:ILE:N	51:BT:48:ILE:CD1	2.72	0.50
51:BT:72:VAL:O	51:BT:73:GLU:CG	2.60	0.50
51:BT:80:SER:HB3	51:BT:81:PRO:CD	2.33	0.50
52:BU:55:ARG:HG3	52:BU:55:ARG:HH11	1.76	0.50
56:BY:10:GLY:CA	56:BY:27:VAL:HG13	2.42	0.50
56:BY:15:VAL:C	56:BY:17:SER:H	2.15	0.50
1:AA:1052:U:O2	1:AA:1207:G:N2	2.45	0.50
1:AA:1308:U:C5	13:AM:99:ARG:NH1	2.80	0.50
1:AA:1374:A:C2	1:AA:1375:A:C8	3.00	0.50
1:AA:279:A:C2'	17:AQ:95:TYR:HE1	2.25	0.50
1:AA:499:A:O3'	1:AA:500:G:C8	2.59	0.50
1:AA:500:G:H8	1:AA:500:G:P	2.35	0.50
1:AA:719:C:H3'	1:AA:720:C:H6	1.74	0.50
1:AA:827:U:O2	1:AA:827:U:H2'	2.11	0.50
1:AA:961:U:OP2	1:AA:1223:C:O4'	2.29	0.50
2:AB:171:ALA:HA	2:AB:174:VAL:HG21	1.93	0.50
2:AB:219:VAL:CA	2:AB:222:ILE:HG12	2.42	0.50
2:AB:58:ILE:O	2:AB:62:ALA:N	2.29	0.50
4:AD:165:MET:HE2	4:AD:176:LEU:CD2	2.42	0.50
8:AH:103:VAL:O	8:AH:104:ARG:C	2.50	0.50
9:AI:87:GLN:HG2	9:AI:88:TYR:CD1	2.47	0.50
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.93	0.50
12:AL:111:LYS:HG2	12:AL:112:ASP:OD1	2.12	0.50
12:AL:31:PRO:O	12:AL:32:PHE:CG	2.65	0.50
12:AL:82:VAL:HG12	12:AL:83:VAL:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:70:LEU:O	13:AM:73:GLU:N	2.45	0.50
13:AM:97:PRO:HB2	13:AM:101:GLN:NE2	2.27	0.50
1:AA:658:G:O4'	15:AO:22:THR:HB	2.11	0.50
15:AO:80:ALA:O	15:AO:83:GLU:N	2.45	0.50
15:AO:85:LEU:H	15:AO:85:LEU:HD23	1.74	0.50
1:AA:627:G:OP1	16:AP:38:TYR:HE2	1.94	0.50
1:AA:280:C:N4	17:AQ:91:ARG:NH2	2.59	0.50
18:AR:76:LEU:O	18:AR:78:LEU:N	2.45	0.50
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.12	0.50
22:AV:33:U:C6	22:AV:33:U:H5'	2.43	0.50
22:AV:53:G:H22	22:AV:61:C:N4	2.10	0.50
22:AV:55:U:N3	22:AV:58:A:OP2	2.45	0.50
22:AV:64:G:H2'	22:AV:65:C:C6	2.47	0.50
24:AY:183:TYR:CD2	24:AY:189:GLU:C	2.85	0.50
24:AY:315:VAL:CG1	24:AY:316:ALA:N	2.73	0.50
24:AY:412:LEU:HD23	24:AY:436:LEU:CD1	2.39	0.50
24:AY:480:LYS:HA	24:AY:480:LYS:HE2	1.94	0.50
25:B0:50:ASN:O	25:B0:62:LEU:CD2	2.60	0.50
27:B2:25:VAL:C	27:B2:27:GLU:N	2.64	0.50
27:B2:37:PHE:O	27:B2:40:SER:N	2.35	0.50
28:B3:6:VAL:CG1	28:B3:56:VAL:HA	2.38	0.50
31:B6:28:ARG:O	31:B6:32:ASN:HB3	2.12	0.50
32:B7:40:TRP:CH2	35:BA:459:U:C4'	2.88	0.50
32:B7:4:THR:CG2	35:BA:789:A:H5'	2.41	0.50
34:B9:31:LYS:O	34:B9:32:HIS:HD2	1.95	0.50
35:BA:1048:A:OP2	35:BA:1048:A:C8	2.64	0.50
35:BA:991:C:OP2	35:BA:1186:G:OP2	2.29	0.50
35:BA:1244:G:H2'	35:BA:1245:G:H8	1.77	0.50
35:BA:1267:U:C5	35:BA:2012:G:C2	2.99	0.50
35:BA:1712:C:N3	35:BA:1747:G:N2	2.59	0.50
31:B6:25:LYS:HD2	35:BA:2285:C:H42	1.77	0.50
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.12	0.50
35:BA:2498:C:C3'	35:BA:2499:C:H5''	2.42	0.50
35:BA:2687:U:C2'	35:BA:2688:U:H5'	2.42	0.50
35:BA:376:C:H2'	35:BA:377:C:C6	2.46	0.50
35:BA:53:A:H8	35:BA:53:A:O5'	1.95	0.50
35:BA:886:C:O2'	35:BA:887:A:OP1	2.30	0.50
35:BA:88:G:N3	35:BA:88:G:H2'	2.27	0.50
35:BA:938:G:H2'	35:BA:939:G:H8	1.77	0.50
35:BA:94(A):G:C2'	35:BA:95:G:C5'	2.79	0.50
35:BA:962:G:N1	35:BA:963:U:C2	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:994:C:O2'	35:BA:996:A:OP1	2.30	0.50
36:BB:81:G:N1	36:BB:97:G:N1	2.60	0.50
38:BD:117:VAL:HG21	38:BD:128:GLY:C	2.32	0.50
38:BD:158:ALA:CB	38:BD:161:THR:OG1	2.56	0.50
38:BD:92:ILE:CG2	38:BD:106:ILE:HG12	2.42	0.50
39:BE:105:THR:HG23	39:BE:165:VAL:O	2.12	0.50
39:BE:111:ARG:O	39:BE:112:GLY:O	2.30	0.50
39:BE:33:VAL:HG11	39:BE:89:ASP:N	2.26	0.50
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.46	0.50
39:BE:70:ALA:O	39:BE:72:VAL:N	2.40	0.50
40:BF:107:LYS:O	40:BF:206:ILE:HG23	2.11	0.50
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.47	0.50
43:BJ:61:UNK:O	43:BJ:65:UNK:CB	2.59	0.50
45:BN:97:ARG:O	45:BN:98:VAL:C	2.49	0.50
35:BA:1244:G:C4'	47:BP:11:GLY:HA2	2.42	0.50
33:B8:13:ARG:NH1	47:BP:59:LEU:HD23	2.23	0.50
48:BQ:24:GLY:O	48:BQ:26:TYR:N	2.45	0.50
48:BQ:58:PHE:CD1	48:BQ:58:PHE:O	2.63	0.50
35:BA:869:G:H1'	48:BQ:8:LYS:HD2	1.94	0.50
51:BT:128:GLU:O	51:BT:129:ARG:C	2.50	0.50
52:BU:28:ARG:HD3	52:BU:38:THR:HG21	1.92	0.50
53:BV:4:ILE:HB	53:BV:39:LEU:O	2.12	0.50
57:BZ:110:GLY:O	57:BZ:115:GLY:CA	2.59	0.50
1:AA:1114:C:O2'	1:AA:1115:C:H5'	2.12	0.50
1:AA:1151:A:HO2'	1:AA:1152:A:H8	1.57	0.50
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.47	0.50
1:AA:217:C:H5''	1:AA:217:C:H6	1.76	0.50
1:AA:624:C:H4'	16:AP:11:SER:HB3	1.93	0.50
2:AB:20:GLU:HG2	2:AB:189:ASP:CG	2.32	0.50
3:AC:77:ILE:HG23	3:AC:84:ILE:HG21	1.94	0.50
4:AD:15:GLU:HG2	4:AD:63:LYS:HG3	1.94	0.50
4:AD:26:CYS:HA	4:AD:31:CYS:CB	2.42	0.50
4:AD:39:PRO:HB3	4:AD:40:PRO:HD2	1.94	0.50
5:AE:12:LEU:HD22	5:AE:13:ILE:C	2.33	0.50
6:AF:52:ILE:HG21	6:AF:87:ARG:HH12	1.77	0.50
9:AI:4:TYR:CD2	9:AI:85:LEU:HA	2.38	0.50
10:AJ:43:ARG:CB	10:AJ:67:THR:HG23	2.34	0.50
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.12	0.50
10:AJ:9:ARG:HA	10:AJ:68:HIS:O	2.11	0.50
11:AK:108:ILE:HD12	11:AK:108:ILE:H	1.76	0.50
11:AK:71:LYS:O	11:AK:75:TYR:HD1	1.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:40:ARG:NE	14:AN:52:GLN:OE1	2.44	0.50
15:AO:11:VAL:O	15:AO:14:GLU:N	2.44	0.50
1:AA:277:C:OP1	17:AQ:41:LYS:HE3	2.12	0.50
18:AR:38:GLU:CD	18:AR:38:GLU:H	2.15	0.50
19:AS:32:LYS:O	19:AS:33:THR:HB	2.12	0.50
19:AS:51:VAL:O	19:AS:58:VAL:HG22	2.12	0.50
22:AV:33:U:O2	22:AV:35:A:C8	2.65	0.50
24:AY:170:THR:CA	24:AY:183:TYR:O	2.56	0.50
24:AY:425:VAL:HG13	24:AY:445:GLN:HG3	1.93	0.50
26:B1:13:ILE:HG12	26:B1:14:VAL:O	2.12	0.50
33:B8:35:GLN:C	33:B8:36:LYS:HG3	2.32	0.50
35:BA:1099:G:H2'	35:BA:1100:C:C6	2.47	0.50
35:BA:1141:U:H5	45:BN:66:LYS:NZ	2.10	0.50
35:BA:1240:U:H2'	35:BA:1241:A:OP2	2.11	0.50
35:BA:565:C:C4'	35:BA:1253:A:N1	2.65	0.50
35:BA:1286:A:H2	35:BA:1328:G:HO2'	1.60	0.50
35:BA:1625:C:C2'	35:BA:1626:G:C5'	2.89	0.50
35:BA:1835:G:C2	35:BA:1836:C:C5	3.00	0.50
35:BA:2000:G:C2	35:BA:2001:A:N7	2.80	0.50
35:BA:244:A:N1	35:BA:255:A:H1'	2.27	0.50
35:BA:2559:C:H2'	35:BA:2560:C:C6	2.43	0.50
35:BA:2861:G:C2	35:BA:2862:G:C8	3.00	0.50
32:B7:34:ARG:NE	35:BA:467:G:OP2	2.45	0.50
35:BA:491:G:C2	35:BA:492:A:H1'	2.46	0.50
35:BA:534:U:O2'	52:BU:49:HIS:CD2	2.61	0.50
35:BA:627:A:N6	35:BA:636:G:H2'	2.27	0.50
35:BA:679:C:O2'	35:BA:680:G:H5'	2.11	0.50
35:BA:803:U:H2'	35:BA:804:A:O4'	2.11	0.50
35:BA:952:G:C4	35:BA:966:G:C2	2.99	0.50
36:BB:115:G:H2'	36:BB:116:G:C8	2.36	0.50
36:BB:49:C:H2'	36:BB:50:G:H8	1.77	0.50
37:BC:173:ALA:HB3	37:BC:192:PHE:CE1	2.47	0.50
37:BC:22:ILE:HD13	37:BC:189:ILE:HG22	1.94	0.50
35:BA:1820:U:N1	38:BD:202:LYS:HD3	2.27	0.50
38:BD:183:ARG:HG3	38:BD:270:ILE:HA	1.93	0.50
39:BE:102:VAL:HG23	39:BE:104:VAL:HG23	1.94	0.50
39:BE:175:VAL:HG23	39:BE:182:LEU:CD1	2.42	0.50
40:BF:65:TRP:HB2	40:BF:66:PRO:HD2	1.92	0.50
42:BH:151:ILE:H	42:BH:151:ILE:CD1	2.09	0.50
46:BO:12:ASP:OD1	46:BO:12:ASP:N	2.44	0.50
46:BO:12:ASP:OD2	46:BO:85:VAL:HG13	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:76:ALA:HB3	51:BT:75:ILE:HB	1.93	0.50
47:BP:138:LEU:HD21	47:BP:143:GLY:O	2.12	0.50
33:B8:13:ARG:NH1	47:BP:61:ARG:HD2	2.23	0.50
49:BR:47:PHE:C	49:BR:49:ASP:H	2.16	0.50
49:BR:96:ARG:NH1	49:BR:96:ARG:CB	2.75	0.50
51:BT:41:ARG:HG2	51:BT:41:ARG:NH1	2.27	0.50
53:BV:5:VAL:HG21	53:BV:35:LEU:HG	1.93	0.50
55:BX:39:ILE:CG2	55:BX:54:VAL:HG11	2.40	0.50
57:BZ:128:VAL:HG13	57:BZ:133:ILE:HD13	1.93	0.50
57:BZ:101:PRO:HG2	57:BZ:135:GLU:O	2.11	0.50
1:AA:1151:A:H1'	1:AA:1152:A:H8	1.75	0.49
1:AA:970:C:C2	1:AA:1231:G:H1'	2.46	0.49
1:AA:253:U:N3	1:AA:274:A:C2	2.80	0.49
1:AA:404:U:H5'	4:AD:122:ARG:NE	2.26	0.49
1:AA:781:A:C8	1:AA:801:U:O4	2.65	0.49
2:AB:69:LEU:H	2:AB:162:ILE:HA	1.77	0.49
2:AB:221:LEU:O	2:AB:225:ALA:N	2.45	0.49
2:AB:33:TYR:CD1	2:AB:43:ASP:OD1	2.64	0.49
2:AB:9:GLU:HA	2:AB:12:GLU:HB2	1.93	0.49
3:AC:179:ARG:CD	3:AC:207:VAL:HA	2.42	0.49
5:AE:115:VAL:HG13	5:AE:117:ASP:H	1.77	0.49
8:AH:14:ARG:HE	8:AH:83:ILE:CG2	2.21	0.49
8:AH:67:PRO:C	8:AH:68:ARG:O	2.46	0.49
8:AH:6:ILE:O	8:AH:7:ALA:C	2.49	0.49
9:AI:55:ALA:HB1	9:AI:59:PHE:CD2	2.46	0.49
9:AI:17:VAL:HG21	9:AI:80:GLY:HA3	1.94	0.49
9:AI:9:ARG:CG	9:AI:14:VAL:HG22	2.42	0.49
13:AM:74:VAL:C	13:AM:76:ALA:H	2.14	0.49
15:AO:24:SER:O	15:AO:25:THR:C	2.50	0.49
15:AO:4:THR:HG22	15:AO:7:GLU:H	1.76	0.49
16:AP:75:ARG:N	16:AP:80:PHE:HE1	2.10	0.49
18:AR:34:TYR:O	18:AR:34:TYR:HD1	1.95	0.49
19:AS:20:LEU:O	19:AS:23:ASN:HB3	2.11	0.49
22:AV:61:C:C5'	22:AV:62:C:OP2	2.60	0.49
24:AY:104:THR:O	24:AY:104:THR:HG22	2.11	0.49
24:AY:332:ARG:CB	24:AY:339:ASP:OD1	2.59	0.49
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.21	0.49
35:BA:1379:A:H5'	35:BA:1380:G:N7	2.27	0.49
35:BA:1442:G:H5'	35:BA:1628:G:H5''	1.94	0.49
35:BA:1657:C:H6	35:BA:1657:C:O5'	1.94	0.49
35:BA:176:G:C5	35:BA:177:G:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:189:G:H2'	35:BA:205:G:H22	1.76	0.49
35:BA:2114:A:H2'	35:BA:2167:U:O2'	2.12	0.49
35:BA:2393:A:N3	35:BA:2394:C:C6	2.80	0.49
33:B8:11:LYS:HZ1	35:BA:243:U:H5''	1.76	0.49
35:BA:2443:C:H2'	35:BA:2444:G:C5'	2.42	0.49
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.12	0.49
35:BA:2579:C:O2'	35:BA:2580:U:H5'	2.12	0.49
35:BA:2796:U:C2'	35:BA:2799:C:H5'	2.41	0.49
35:BA:444:C:H2'	35:BA:445:C:C6	2.47	0.49
35:BA:539:G:C6	35:BA:540:C:C4	3.00	0.49
35:BA:752:A:N7	35:BA:1781:C:O2	2.45	0.49
36:BB:54:G:C2	36:BB:55:U:C6	2.99	0.49
36:BB:77:U:C5	36:BB:99:G:N2	2.80	0.49
38:BD:158:ALA:O	38:BD:161:THR:CB	2.60	0.49
38:BD:72:LYS:HD3	38:BD:97:TYR:CD2	2.47	0.49
39:BE:24:THR:HG21	39:BE:188:VAL:CG1	2.33	0.49
39:BE:95:ILE:N	39:BE:95:ILE:HD13	2.26	0.49
40:BF:127:GLU:CB	40:BF:196:LEU:HD12	2.41	0.49
40:BF:110:LEU:HD23	40:BF:183:VAL:HG13	1.93	0.49
42:BH:37:VAL:CG2	42:BH:72:ILE:HG12	2.43	0.49
47:BP:17:LYS:HG2	47:BP:17:LYS:O	2.12	0.49
35:BA:941:A:H4'	47:BP:35:HIS:CE1	2.47	0.49
33:B8:13:ARG:NH1	47:BP:61:ARG:O	2.45	0.49
50:BS:106:ARG:NH1	50:BS:109:GLY:N	2.56	0.49
50:BS:58:LEU:HG	50:BS:59:LYS:N	2.26	0.49
53:BV:49:THR:O	53:BV:50:PRO:C	2.50	0.49
54:BW:70:TYR:O	54:BW:107:LEU:CB	2.58	0.49
56:BY:38:ILE:HD13	56:BY:66:PRO:HG3	1.94	0.49
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.12	0.49
1:AA:244:U:O4	1:AA:893:C:N3	2.45	0.49
1:AA:502:G:C5	1:AA:503:C:C5	3.00	0.49
1:AA:748:C:O2'	1:AA:749:C:O5'	2.30	0.49
2:AB:112:VAL:O	2:AB:115:LEU:N	2.45	0.49
2:AB:21:ARG:HD2	2:AB:39:ILE:CG1	2.42	0.49
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.65	0.49
4:AD:98:GLU:HA	4:AD:103:ASN:HD21	1.75	0.49
4:AD:63:LYS:O	4:AD:67:ILE:HG13	2.11	0.49
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.75	0.49
13:AM:23:TYR:CE1	13:AM:70:LEU:HD22	2.46	0.49
16:AP:53:VAL:HG12	16:AP:78:GLY:O	2.12	0.49
16:AP:70:ALA:O	16:AP:74:LEU:HG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.94	0.49
19:AS:15:LEU:HD13	19:AS:19:VAL:HG21	1.94	0.49
19:AS:47:HIS:N	19:AS:62:ILE:CG2	2.76	0.49
22:AV:39:C:C2'	22:AV:40:C:H5'	2.39	0.49
22:AV:51:C:O2	22:AV:63:G:N1	2.44	0.49
24:AY:182:VAL:CG1	24:AY:183:TYR:N	2.51	0.49
25:B0:42:GLY:HA3	35:BA:2331:G:C1'	2.42	0.49
28:B3:13:ILE:HG22	28:B3:13:ILE:O	2.11	0.49
31:B6:35:GLU:OE1	31:B6:35:GLU:CA	2.53	0.49
32:B7:19:ARG:HH21	32:B7:23:ARG:HH22	1.61	0.49
33:B8:46:ARG:NH1	33:B8:46:ARG:HG2	2.26	0.49
35:BA:1052:C:O2'	35:BA:1053:C:P	2.70	0.49
35:BA:1779:U:C6	35:BA:1783:A:N7	2.81	0.49
35:BA:2010:G:C6	35:BA:2011:U:C5	3.00	0.49
35:BA:2126:A:O2'	35:BA:2127:G:P	2.70	0.49
35:BA:2128:C:O2'	35:BA:2129:C:C5'	2.59	0.49
35:BA:2134:A:H1'	35:BA:2159:G:N3	2.27	0.49
35:BA:2173:A:H2'	35:BA:2173:A:N3	2.27	0.49
35:BA:2326:C:O2	35:BA:2388:A:N6	2.45	0.49
35:BA:2496:C:O5'	35:BA:2496:C:H6	1.95	0.49
35:BA:2594:C:O2'	35:BA:2595:G:H5'	2.12	0.49
35:BA:746:A:C2'	35:BA:2612:C:H5''	2.42	0.49
36:BB:86:G:N2	36:BB:92:C:C2	2.81	0.49
37:BC:7:TYR:O	37:BC:10:LEU:CD2	2.60	0.49
39:BE:172:VAL:O	39:BE:174:ASP:N	2.45	0.49
41:BG:10:LYS:O	41:BG:14:GLU:HB2	2.12	0.49
41:BG:34:LEU:HA	41:BG:161:THR:CG2	2.28	0.49
42:BH:98:LEU:HB2	42:BH:103:LEU:HD13	1.94	0.49
43:BJ:95:UNK:O	43:BJ:99:UNK:CB	2.60	0.49
35:BA:1666:G:O3'	46:BO:6:THR:HG23	2.11	0.49
46:BO:86:ILE:C	46:BO:87:ILE:HD13	2.33	0.49
47:BP:105:LEU:O	47:BP:106:LEU:HB2	2.12	0.49
48:BQ:141:GLN:C	57:BZ:53:ILE:HB	2.32	0.49
48:BQ:48:GLU:HG3	48:BQ:51:ARG:HD3	1.93	0.49
35:BA:1188:U:C4'	53:BV:79:VAL:HG12	2.42	0.49
1:AA:1059:C:O2'	1:AA:1060:C:H5'	2.12	0.49
1:AA:951:G:C2	1:AA:1231:G:C2	3.01	0.49
1:AA:1307:U:N3	1:AA:1308:U:C4	2.80	0.49
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.31	0.49
1:AA:321:A:C2	1:AA:333:G:C2	3.00	0.49
1:AA:867:G:H2'	1:AA:868:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:146:GLN:O	2:AB:149:LEU:N	2.33	0.49
2:AB:161:ALA:HB1	2:AB:185:ILE:HD11	1.94	0.49
2:AB:46:LYS:O	2:AB:49:GLU:HB2	2.12	0.49
2:AB:97:TRP:CZ2	2:AB:176:GLU:OE2	2.65	0.49
4:AD:8:VAL:C	4:AD:10:ARG:N	2.63	0.49
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.27	0.49
7:AG:118:VAL:O	7:AG:119:ARG:C	2.50	0.49
8:AH:9:MET:O	8:AH:11:THR:N	2.46	0.49
9:AI:100:GLY:O	9:AI:101:PHE:C	2.51	0.49
12:AL:90:VAL:HG11	12:AL:93:LEU:CD1	2.41	0.49
13:AM:74:VAL:O	13:AM:76:ALA:N	2.45	0.49
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.42	0.49
1:AA:719:C:H2'	18:AR:50:ILE:HB	1.94	0.49
1:AA:719:C:O2	18:AR:50:ILE:N	2.45	0.49
20:AT:23:ARG:HG2	20:AT:23:ARG:HH11	1.76	0.49
24:AY:136:PRO:CB	24:AY:246:PHE:CZ	2.96	0.49
24:AY:14:ARG:O	24:AY:85:ASN:N	2.42	0.49
24:AY:131:ARG:NH2	24:AY:162:LEU:O	2.45	0.49
27:B2:9:GLN:HG2	27:B2:56:GLN:HE22	1.76	0.49
29:B4:11:PRO:HA	29:B4:25:TYR:CD2	2.47	0.49
29:B4:40:HIS:HD2	29:B4:42:PHE:HD1	1.60	0.49
29:B4:5:ILE:O	29:B4:5:ILE:CG1	2.60	0.49
29:B4:9:LEU:HD13	29:B4:10:VAL:N	2.22	0.49
30:B5:30:LEU:HD13	30:B5:39:MET:HB2	1.94	0.49
33:B8:46:ARG:HH11	33:B8:46:ARG:HG2	1.77	0.49
35:BA:1133:U:H5	35:BA:2026:C:HO2'	1.58	0.49
35:BA:1187:G:H5''	53:BV:81:TYR:HE1	1.73	0.49
35:BA:1242:A:H3'	35:BA:1243:G:H8	1.77	0.49
35:BA:1307:A:N3	35:BA:1307:A:H2'	2.27	0.49
35:BA:1387:C:C2	35:BA:1388:G:C8	3.00	0.49
35:BA:1433:U:O2	35:BA:1433:U:H2'	2.11	0.49
35:BA:1670:C:OP2	35:BA:1671:U:C5	2.65	0.49
35:BA:1799:G:H4'	35:BA:1800:C:H6	1.76	0.49
35:BA:2455:G:N1	35:BA:2498:C:N4	2.61	0.49
35:BA:2651:C:O2'	35:BA:2652:C:H5'	2.11	0.49
35:BA:2649:U:C2	35:BA:2672:G:N2	2.80	0.49
35:BA:2700:C:C2	35:BA:2701:C:C5	3.00	0.49
35:BA:2801(A):A:C5'	35:BA:2802:G:H5'	2.41	0.49
35:BA:2835:A:C2	35:BA:2879:C:C4	3.00	0.49
35:BA:408:G:O2'	35:BA:409:C:H5'	2.12	0.49
35:BA:413:C:H2'	35:BA:414:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:495:G:C6	35:BA:496:G:C5	3.01	0.49
35:BA:660:G:C2	35:BA:661:C:C2	3.00	0.49
35:BA:783:A:C3'	35:BA:783:A:C8	2.95	0.49
37:BC:30:LYS:HD3	37:BC:185:LEU:HD12	1.92	0.49
38:BD:9:TYR:HH	38:BD:13:ARG:CZ	2.24	0.49
38:BD:158:ALA:O	38:BD:161:THR:HB	2.12	0.49
38:BD:268:ARG:H	38:BD:270:ILE:HD11	1.75	0.49
38:BD:53:PHE:CE2	38:BD:220:HIS:ND1	2.80	0.49
38:BD:75:ILE:O	38:BD:118:VAL:HG23	2.11	0.49
42:BH:92:ILE:CD1	42:BH:95:ARG:HH21	2.26	0.49
45:BN:39:ARG:C	45:BN:41:ASP:H	2.16	0.49
45:BN:62:VAL:HG11	45:BN:67:LEU:HG	1.94	0.49
46:BO:10:VAL:HG21	46:BO:16:ALA:O	2.12	0.49
46:BO:87:ILE:HA	46:BO:92:GLU:O	2.12	0.49
48:BQ:2:LEU:O	48:BQ:3:MET:HB3	2.11	0.49
25:B0:4:LYS:HE3	48:BQ:82:ARG:HD2	1.94	0.49
49:BR:114:VAL:HG23	49:BR:114:VAL:O	2.13	0.49
50:BS:18:ILE:HD12	50:BS:18:ILE:H	1.76	0.49
51:BT:67:SER:O	51:BT:68:TYR:O	2.30	0.49
46:BO:76:ALA:CB	51:BT:75:ILE:HD13	2.42	0.49
51:BT:61:PHE:CZ	51:BT:76:PHE:HB2	2.47	0.49
35:BA:444:C:OP2	52:BU:2:PRO:HD3	2.12	0.49
53:BV:39:LEU:HD11	53:BV:51:VAL:HA	1.93	0.49
53:BV:40:LEU:HD23	53:BV:47:VAL:HG22	1.94	0.49
53:BV:52:VAL:O	53:BV:54:GLY:N	2.45	0.49
54:BW:4:LYS:HG3	54:BW:106:ILE:CG2	2.41	0.49
55:BX:4:ALA:C	55:BX:6:ASP:H	2.14	0.49
55:BX:4:ALA:C	55:BX:6:ASP:N	2.64	0.49
1:AA:1068:G:H5'	1:AA:1388:C:OP1	2.12	0.49
1:AA:1413:A:C2	1:AA:1414:U:C2	3.01	0.49
1:AA:323:U:O2'	20:AT:22:ARG:NE	2.45	0.49
1:AA:332:G:C4	1:AA:333:G:C8	3.00	0.49
1:AA:356:A:N3	1:AA:368:U:O2'	2.40	0.49
1:AA:356:A:O3'	1:AA:367:U:H2'	2.13	0.49
1:AA:452:A:O2'	1:AA:453:A:H5'	2.11	0.49
1:AA:554:C:OP1	12:AL:22:SER:CB	2.59	0.49
1:AA:592:G:O2'	1:AA:593:G:H5'	2.11	0.49
1:AA:774:G:H2'	1:AA:775:G:O4'	2.13	0.49
1:AA:839:U:O2	1:AA:839:U:C2'	2.60	0.49
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.12	0.49
4:AD:70:ILE:CG2	4:AD:71:SER:N	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:139:GLU:HA	7:AG:142:GLU:HB2	1.93	0.49
8:AH:4:ASP:O	8:AH:5:PRO:C	2.50	0.49
9:AI:53:VAL:C	9:AI:55:ALA:N	2.65	0.49
20:AT:36:LEU:CD1	20:AT:55:ILE:HG22	2.43	0.49
22:AV:69:C:O2'	22:AV:70:G:H8	1.95	0.49
24:AY:223:LEU:CD2	42:BH:97:ARG:HH22	2.24	0.49
24:AY:25:GLY:HA3	24:AY:29:ILE:CD1	2.42	0.49
24:AY:457:TYR:C	24:AY:459:VAL:H	2.16	0.49
26:B1:48:LYS:NZ	26:B1:61:ARG:HG2	2.27	0.49
19:AS:23:ASN:HA	29:B4:47:GLN:CG	2.43	0.49
29:B4:5:ILE:O	41:BG:67:LYS:HD2	2.12	0.49
33:B8:30:ARG:O	33:B8:31:HIS:HB3	2.11	0.49
35:BA:1065:U:O2'	35:BA:1066:U:H5''	2.13	0.49
35:BA:1058:G:N2	35:BA:1080:C:H42	2.11	0.49
35:BA:1462:C:H5'	35:BA:2703:C:O4'	2.12	0.49
35:BA:1414:G:N2	35:BA:1589:C:C2	2.81	0.49
35:BA:1842:G:C2	35:BA:1901:A:C2	2.99	0.49
35:BA:214:G:H1'	35:BA:216:A:O2'	2.13	0.49
35:BA:2292:C:H2'	35:BA:2293:C:C6	2.45	0.49
35:BA:2543:G:H5'	35:BA:2543:G:C8	2.38	0.49
35:BA:2641:G:O2'	35:BA:2642:G:H5'	2.13	0.49
35:BA:2657:A:H5'	35:BA:2657:A:N3	2.26	0.49
35:BA:627:A:C6	35:BA:637:A:C8	3.00	0.49
35:BA:701:G:H2'	35:BA:702:G:H8	1.76	0.49
35:BA:816:C:N3	35:BA:1192:G:N2	2.59	0.49
35:BA:833:U:H2'	35:BA:834:C:C6	2.45	0.49
36:BB:102:A:C2'	36:BB:103:G:H8	2.24	0.49
36:BB:42:C:O2'	36:BB:43:C:P	2.69	0.49
36:BB:57:A:C8	41:BG:27:ASN:ND2	2.69	0.49
37:BC:46:LYS:HD2	37:BC:47:LEU:O	2.12	0.49
37:BC:62:VAL:HG13	37:BC:62:VAL:O	2.12	0.49
37:BC:8:ARG:C	37:BC:10:LEU:H	2.15	0.49
38:BD:24:ILE:HG23	38:BD:83:GLU:N	2.27	0.49
40:BF:144:LYS:HG2	40:BF:144:LYS:O	2.12	0.49
40:BF:26:ALA:O	40:BF:27:GLU:CG	2.55	0.49
41:BG:46:ALA:O	41:BG:47:LYS:HD2	2.11	0.49
42:BH:98:LEU:HD23	42:BH:125:VAL:HG23	1.95	0.49
42:BH:18:GLU:HB2	42:BH:25:LYS:O	2.13	0.49
47:BP:83:VAL:HG13	47:BP:114:ILE:CD1	2.42	0.49
47:BP:16:ARG:CZ	47:BP:18:ARG:HB2	2.42	0.49
47:BP:55:ARG:C	47:BP:57:THR:H	2.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:35:ILE:H	50:BS:53:SER:HB2	1.77	0.49
52:BU:13:LYS:HA	52:BU:16:LYS:HD2	1.95	0.49
55:BX:12:VAL:HA	55:BX:27:THR:O	2.12	0.49
55:BX:3:THR:O	55:BX:4:ALA:HB2	2.13	0.49
1:AA:1048:G:N3	1:AA:1050:G:N7	2.60	0.49
1:AA:109:A:C8	1:AA:327:A:O4'	2.65	0.49
1:AA:1106:G:C4	1:AA:1107:C:C5	3.01	0.49
1:AA:1230:C:H6	1:AA:1230:C:O5'	1.94	0.49
1:AA:23:C:O2'	1:AA:24:U:C5'	2.58	0.49
1:AA:357:G:P	1:AA:367:U:H2'	2.52	0.49
1:AA:537:G:H2'	1:AA:538:G:C8	2.47	0.49
1:AA:672:U:O2'	1:AA:673:G:H8	1.96	0.49
1:AA:571:U:H5''	1:AA:819:A:C4	2.47	0.49
1:AA:570:G:H1'	1:AA:820:U:N3	2.27	0.49
1:AA:22:G:O2'	1:AA:913:A:N1	2.46	0.49
3:AC:7:PRO:HG3	3:AC:184:TYR:HB2	1.93	0.49
3:AC:47:LEU:HD23	3:AC:52:LEU:CD1	2.39	0.49
4:AD:187:ARG:CZ	4:AD:187:ARG:HB3	2.42	0.49
5:AE:143:ARG:HH11	5:AE:143:ARG:HG3	1.78	0.49
6:AF:15:ASP:OD1	6:AF:18:GLN:HG3	2.12	0.49
7:AG:54:THR:HG23	7:AG:54:THR:O	2.12	0.49
7:AG:70:LYS:HG2	7:AG:96:GLN:HG2	1.93	0.49
8:AH:85:ARG:O	8:AH:86:ILE:HD13	2.11	0.49
8:AH:85:ARG:CZ	8:AH:87:SER:O	2.60	0.49
9:AI:99:LEU:HB2	9:AI:101:PHE:HD1	1.77	0.49
13:AM:70:LEU:O	13:AM:71:ARG:C	2.50	0.49
15:AO:36:ILE:HG12	15:AO:59:MET:CE	2.35	0.49
18:AR:71:LYS:O	18:AR:72:ARG:C	2.51	0.49
22:AV:37:A:O2'	22:AV:38:A:H5'	2.13	0.49
22:AV:55:U:H2'	22:AV:56:C:H3'	1.93	0.49
22:AV:62:C:H3'	22:AV:63:G:H5''	1.94	0.49
24:AY:136:PRO:HB2	24:AY:246:PHE:CZ	2.48	0.49
24:AY:242:ASP:OD1	24:AY:245:LEU:HG	2.12	0.49
24:AY:430:PRO:HD2	24:AY:435:ASP:O	2.13	0.49
24:AY:79:TYR:O	24:AY:80:HIS:C	2.51	0.49
25:B0:27:GLU:H	25:B0:27:GLU:CD	2.15	0.49
26:B1:67:ILE:C	26:B1:69:LYS:H	2.15	0.49
30:B5:43:HIS:CD2	30:B5:43:HIS:N	2.80	0.49
32:B7:2:LYS:HE3	32:B7:6:GLN:HG3	1.94	0.49
35:BA:1188:U:O2'	35:BA:1189:A:H5'	2.11	0.49
35:BA:143(A):C:H4'	55:BX:38:GLU:OE2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1830:C:H6	35:BA:1830:C:O5'	1.95	0.49
35:BA:1859:A:H61	35:BA:1883:G:H1'	1.77	0.49
35:BA:1951:U:C6	35:BA:1953:A:OP2	2.66	0.49
35:BA:2180:U:C6	35:BA:2181:G:C8	2.95	0.49
35:BA:2267:A:H3'	35:BA:2267:A:N3	2.28	0.49
35:BA:2343:C:O2'	35:BA:2344:U:H5'	2.11	0.49
35:BA:2456:C:H2'	35:BA:2457:U:C6	2.40	0.49
35:BA:2521:C:H5'	35:BA:2522:U:OP2	2.12	0.49
35:BA:895:U:H3'	35:BA:896:A:C5'	2.43	0.49
35:BA:906:G:O2'	48:BQ:67:ARG:NH2	2.46	0.49
37:BC:132:GLY:N	37:BC:133:PRO:CD	2.75	0.49
45:BN:67:LEU:O	45:BN:68:GLU:CB	2.60	0.49
45:BN:72:TYR:HE1	45:BN:87:LEU:HD23	1.77	0.49
47:BP:47:ASP:CG	47:BP:49:ARG:N	2.65	0.49
50:BS:85:VAL:HG22	50:BS:106:ARG:HB2	1.93	0.49
50:BS:85:VAL:CG2	50:BS:106:ARG:HB2	2.43	0.49
51:BT:32:TYR:O	51:BT:41:ARG:O	2.30	0.49
53:BV:43:GLU:C	53:BV:44:LYS:HG3	2.33	0.49
53:BV:99:ILE:CD1	53:BV:99:ILE:N	2.74	0.49
55:BX:4:ALA:N	55:BX:6:ASP:OD2	2.41	0.49
56:BY:88:LYS:HZ3	56:BY:93:GLY:N	2.09	0.49
57:BZ:144:LEU:N	57:BZ:144:LEU:HD22	2.27	0.49
57:BZ:8:TYR:CB	57:BZ:38:TYR:CZ	2.95	0.49
1:AA:1038:C:O2'	1:AA:1039:C:H5'	2.13	0.49
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.31	0.49
1:AA:1282:C:H2'	1:AA:1283:G:H5'	1.93	0.49
1:AA:1372:U:P	9:AI:69:GLY:HA3	2.52	0.49
1:AA:1452:C:OP2	1:AA:1456:G:O6	2.30	0.49
1:AA:302:G:O2'	1:AA:556:C:H5''	2.12	0.49
1:AA:724:G:O2'	1:AA:725:G:H5'	2.13	0.49
2:AB:22:LYS:CA	2:AB:22:LYS:CE	2.86	0.49
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.27	0.49
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.12	0.49
1:AA:1345:U:H5''	9:AI:120:ARG:HH11	1.78	0.49
10:AJ:29:ARG:O	10:AJ:29:ARG:CG	2.60	0.49
10:AJ:38:ILE:O	10:AJ:40:LEU:HD23	2.13	0.49
11:AK:80:VAL:HG22	11:AK:104:GLN:O	2.12	0.49
15:AO:49:ASP:CG	15:AO:52:SER:CB	2.80	0.49
1:AA:246:A:O2'	17:AQ:99:SER:HB2	2.12	0.49
19:AS:60:VAL:O	19:AS:60:VAL:HG13	2.12	0.49
20:AT:19:SER:O	20:AT:20:LEU:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1438:G:OP1	20:AT:34:LYS:HD3	2.12	0.49
22:AV:26:G:C5	22:AV:27:U:H5	2.30	0.49
22:AV:58:A:N1	22:AV:61:C:C5	2.80	0.49
24:AY:509:VAL:O	24:AY:512:ARG:HB2	2.13	0.49
24:AY:517:ARG:O	24:AY:519:PRO:HD3	2.12	0.49
25:B0:42:GLY:HA3	35:BA:2331:G:C4'	2.42	0.49
25:B0:49:LYS:HG3	25:B0:80:HIS:HD1	1.77	0.49
25:B0:62:LEU:HD23	25:B0:62:LEU:N	2.27	0.49
27:B2:29:LYS:HZ3	27:B2:57:ILE:HG21	1.77	0.49
35:BA:1047:G:H2'	35:BA:1110:G:N2	2.26	0.49
35:BA:1167:U:N3	35:BA:1183:G:N1	2.60	0.49
35:BA:1291:C:O2'	35:BA:1292:U:H5'	2.12	0.49
35:BA:1315:C:C2	35:BA:1338:G:N2	2.81	0.49
35:BA:154:G:N1	35:BA:173:G:C6	2.80	0.49
35:BA:1766:U:O5'	35:BA:1766:U:H6	1.96	0.49
35:BA:1886:C:H2'	35:BA:1887:C:C6	2.48	0.49
35:BA:199:A:H61	35:BA:2433:A:C2'	2.24	0.49
35:BA:2068:U:N3	35:BA:2430:A:C2	2.73	0.49
35:BA:2761:G:H2'	35:BA:2762:G:C5'	2.41	0.49
35:BA:2785:C:H2'	35:BA:2786:U:H6	1.71	0.49
35:BA:2792:G:C2	35:BA:2805:G:N2	2.80	0.49
35:BA:2822:G:H8	35:BA:2822:G:O5'	1.95	0.49
35:BA:431:U:H6	35:BA:431:U:O5'	1.95	0.49
35:BA:636:G:H4'	35:BA:638:G:H4'	1.94	0.49
33:B8:21:LYS:HD2	35:BA:651:G:P	2.51	0.49
35:BA:745:G:C2'	35:BA:746:A:H5'	2.43	0.49
35:BA:81:G:N2	56:BY:2:ARG:NH1	2.57	0.49
35:BA:861:A:H2'	35:BA:862:G:H5'	1.94	0.49
37:BC:100:ILE:CG2	37:BC:127:MET:HG3	2.27	0.49
38:BD:153:ALA:HB1	38:BD:157:ARG:HH11	1.77	0.49
38:BD:65:ILE:O	38:BD:67:PHE:N	2.45	0.49
39:BE:59:VAL:HG22	39:BE:63:LEU:HA	1.95	0.49
40:BF:101:LEU:HD12	40:BF:102:PRO:CD	2.21	0.49
45:BN:62:VAL:HG11	45:BN:67:LEU:CG	2.42	0.49
46:BO:53:LYS:O	46:BO:56:ASP:HB2	2.12	0.49
47:BP:17:LYS:C	47:BP:19:VAL:N	2.65	0.49
40:BF:184:TYR:HE1	47:BP:7:ARG:HH21	1.60	0.49
48:BQ:29:PHE:HE2	48:BQ:67:ARG:CZ	2.23	0.49
48:BQ:45:GLN:H	48:BQ:45:GLN:HE21	1.59	0.49
49:BR:59:ASP:O	49:BR:63:ARG:HB2	2.13	0.49
50:BS:85:VAL:HG23	50:BS:86:ALA:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:49:HIS:O	52:BU:50:ARG:C	2.50	0.49
53:BV:39:LEU:HD12	53:BV:47:VAL:HG11	1.93	0.49
54:BW:18:ARG:NH1	54:BW:76:VAL:HG13	2.28	0.49
54:BW:72:LYS:HD2	54:BW:108:GLY:HA3	1.92	0.49
36:BB:76:G:O2'	57:BZ:19:ARG:NH2	2.45	0.49
1:AA:106:C:H42	20:AT:14:LYS:NZ	2.09	0.49
1:AA:1073:U:O5'	1:AA:1073:U:H6	1.96	0.49
1:AA:1117:G:C5'	1:AA:1117:G:H8	2.24	0.49
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.48	0.49
1:AA:243:A:H4'	1:AA:244:U:O5'	2.13	0.49
1:AA:986:A:H2'	1:AA:987:G:C8	2.48	0.49
2:AB:146:GLN:O	2:AB:147:LYS:C	2.50	0.49
2:AB:20:GLU:HG3	2:AB:191:ASP:HB2	1.95	0.49
2:AB:32:ILE:O	2:AB:32:ILE:CG2	2.60	0.49
2:AB:22:LYS:HE3	2:AB:40:HIS:CE1	2.48	0.49
3:AC:71:ALA:O	3:AC:73:PRO:HD3	2.13	0.49
4:AD:199:ASN:C	4:AD:199:ASN:OD1	2.50	0.49
4:AD:65:ARG:HB2	4:AD:75:PHE:CZ	2.47	0.49
5:AE:9:LYS:HB3	5:AE:112:LEU:HD11	1.94	0.49
8:AH:29:SER:HB3	8:AH:32:LYS:CD	2.42	0.49
1:AA:1117:G:H1'	9:AI:106:ALA:HB1	1.95	0.49
1:AA:1348:U:H5'	9:AI:110:GLU:HB2	1.94	0.49
10:AJ:17:ASP:O	10:AJ:21:GLN:HB2	2.13	0.49
10:AJ:38:ILE:O	10:AJ:40:LEU:CD2	2.61	0.49
1:AA:1199:U:C4'	10:AJ:54:PHE:CE2	2.92	0.49
10:AJ:8:LEU:N	10:AJ:70:ARG:O	2.46	0.49
12:AL:34:ARG:HB3	12:AL:61:THR:HG21	1.94	0.49
24:AY:505:ALA:C	24:AY:507:SER:H	2.15	0.49
24:AY:90:PRO:HD2	24:AY:99:THR:CG2	2.36	0.49
25:B0:45:PHE:HB2	25:B0:59:LEU:CD1	2.41	0.49
33:B8:62:LEU:HD22	35:BA:242:G:H5'	1.94	0.49
35:BA:1029:A:C2'	35:BA:1030:G:H5'	2.42	0.49
35:BA:116:C:O2'	35:BA:117:G:H5'	2.12	0.49
35:BA:1241:A:N7	35:BA:1242:A:C5	2.81	0.49
35:BA:1292:U:H2'	35:BA:1293:C:H6	1.74	0.49
35:BA:1326:U:C4	35:BA:1648:C:H4'	2.48	0.49
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.40	0.49
35:BA:153:C:N4	35:BA:154:G:O6	2.46	0.49
35:BA:1792:G:C6	35:BA:1793:C:C5	3.00	0.49
35:BA:2474:C:H5''	35:BA:2475:C:H5	1.76	0.49
35:BA:2581:G:H22	35:BA:2610:C:H2'	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2771:C:C2	35:BA:2772:C:C5	3.00	0.49
35:BA:2630:G:O2'	35:BA:2892:A:O2'	2.26	0.49
35:BA:342:G:HO2'	35:BA:343:C:H6	1.58	0.49
35:BA:471:A:N6	35:BA:472:A:C2	2.81	0.49
35:BA:587:C:H4'	35:BA:588:U:H6	1.76	0.49
35:BA:640:C:N4	35:BA:641:C:N4	2.61	0.49
35:BA:685:A:N3	35:BA:689:A:N6	2.61	0.49
35:BA:803:U:H2'	35:BA:804:A:C5'	2.43	0.49
35:BA:884:C:O5'	35:BA:884:C:C6	2.63	0.49
35:BA:954:G:N3	35:BA:2274:A:C2	2.81	0.49
36:BB:85:G:N2	36:BB:93:G:C4	2.81	0.49
37:BC:21:THR:HG22	37:BC:225:ASN:CB	2.43	0.49
37:BC:58:VAL:O	37:BC:59:ARG:CB	2.60	0.49
35:BA:1902:C:C5'	38:BD:246:PRO:CD	2.90	0.49
38:BD:95:LEU:N	38:BD:95:LEU:CD1	2.75	0.49
39:BE:117:MET:HA	39:BE:122:PHE:CA	2.42	0.49
40:BF:155:LEU:HB3	40:BF:192:LEU:HA	1.94	0.49
40:BF:157:VAL:HG21	40:BF:194:MET:HG2	1.95	0.49
35:BA:1258:C:O4'	40:BF:84:VAL:HG21	2.13	0.49
42:BH:141:VAL:O	42:BH:145:ALA:N	2.43	0.49
42:BH:38:SER:HB3	42:BH:64:LEU:HD11	1.89	0.49
47:BP:146:VAL:O	47:BP:148:LEU:HG	2.13	0.49
47:BP:83:VAL:HG13	47:BP:114:ILE:HD12	1.93	0.49
48:BQ:12:GLN:CD	48:BQ:73:PRO:HD3	2.33	0.49
49:BR:82:GLU:C	49:BR:85:PRO:HD2	2.33	0.49
51:BT:61:PHE:CE2	51:BT:63:VAL:HG23	2.48	0.49
52:BU:17:ILE:H	52:BU:17:ILE:CD1	2.26	0.49
53:BV:76:LYS:O	53:BV:79:VAL:HG23	2.13	0.49
56:BY:6:HIS:HD2	56:BY:6:HIS:H	1.60	0.49
57:BZ:146:ILE:O	57:BZ:147:GLY:O	2.30	0.49
57:BZ:37:VAL:HG23	57:BZ:38:TYR:N	2.28	0.49
1:AA:1014:A:C5'	19:AS:14:HIS:CD2	2.96	0.49
1:AA:1127:G:O2'	1:AA:1128:C:H5'	2.13	0.49
1:AA:1195:C:C5	1:AA:1197:G:C8	3.01	0.49
1:AA:1261:A:N6	1:AA:1275:A:C8	2.81	0.49
1:AA:52:G:O2'	1:AA:53:A:H5'	2.13	0.49
1:AA:623:C:H2'	1:AA:624:C:H6	1.76	0.49
1:AA:665:A:C8	1:AA:725:G:C2	3.01	0.49
1:AA:66:G:C4'	1:AA:173:U:C4	2.96	0.49
1:AA:803:G:C5	1:AA:804:U:C4	3.00	0.49
1:AA:837:G:O2'	1:AA:838:G:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:103:THR:HA	2:AB:180:LEU:CD1	2.40	0.49
3:AC:14:ILE:CD1	3:AC:178:LEU:HG	2.43	0.49
3:AC:35:GLU:HB2	3:AC:59:ARG:HH22	1.77	0.49
4:AD:112:VAL:HG12	4:AD:116:GLN:CD	2.32	0.49
4:AD:175:SER:CB	4:AD:186:LEU:HD11	2.42	0.49
5:AE:79:GLU:OE1	5:AE:92:LYS:HE3	2.13	0.49
9:AI:99:LEU:CD2	9:AI:99:LEU:N	2.71	0.49
12:AL:35:GLY:C	12:AL:58:VAL:CG1	2.80	0.49
13:AM:11:ARG:HG2	13:AM:12:ASN:N	2.27	0.49
16:AP:27:LYS:HG2	16:AP:30:GLY:CA	2.43	0.49
16:AP:52:ASP:O	16:AP:56:ALA:HB2	2.13	0.49
16:AP:67:THR:CA	16:AP:70:ALA:HB3	2.43	0.49
19:AS:79:THR:CG2	19:AS:80:TYR:N	2.75	0.49
20:AT:19:SER:O	20:AT:22:ARG:N	2.46	0.49
20:AT:43:LEU:O	20:AT:48:LYS:HB2	2.13	0.49
24:AY:141:MET:O	24:AY:144:LEU:HD23	2.13	0.49
24:AY:169:ILE:O	24:AY:169:ILE:HG22	2.13	0.49
24:AY:197:LYS:HD2	24:AY:200:THR:HG23	1.94	0.49
24:AY:200:THR:HG23	24:AY:200:THR:O	2.11	0.49
24:AY:138:LEU:CA	24:AY:253:PRO:HG2	2.36	0.49
24:AY:282:ARG:CD	24:AY:319:ARG:HH12	2.26	0.49
24:AY:449:VAL:HG21	24:AY:463:TYR:HH	1.76	0.49
24:AY:469:ALA:O	24:AY:470:THR:HG22	2.13	0.49
26:B1:18:ILE:HD12	35:BA:380:U:OP2	2.13	0.49
27:B2:35:LEU:CD1	27:B2:36:ARG:N	2.73	0.49
35:BA:1038:C:C3'	35:BA:1039:G:C5'	2.89	0.49
35:BA:1184:G:C2'	35:BA:1185:C:H5'	2.42	0.49
35:BA:1416:G:H1'	35:BA:1417:C:C6	2.48	0.49
35:BA:1678:G:H1'	35:BA:1991:U:H1'	1.94	0.49
35:BA:1772:G:N2	35:BA:1774:C:C5'	2.75	0.49
35:BA:1878:G:H2'	35:BA:1879:C:C6	2.48	0.49
35:BA:1947:C:C4	35:BA:1948:G:N7	2.80	0.49
35:BA:2014:A:O2'	35:BA:2015:A:C8	2.65	0.49
35:BA:2020:A:OP1	52:BU:27:LEU:HD13	2.12	0.49
35:BA:2111:C:H1'	35:BA:2118:U:H4'	1.94	0.49
35:BA:2110:G:N2	35:BA:2180:U:H3	2.11	0.49
35:BA:2185:C:N3	35:BA:2186:G:N7	2.61	0.49
35:BA:2199:A:C2	35:BA:2200:C:H1'	2.48	0.49
35:BA:2262:U:O2'	35:BA:2263:C:H5'	2.13	0.49
35:BA:2396:G:C2	35:BA:2397:G:N7	2.81	0.49
34:B9:31:LYS:HE2	35:BA:2478:A:H5'	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2489:G:C6	35:BA:2490:G:C6	3.01	0.49
35:BA:2599:G:H2'	35:BA:2600:A:C8	2.48	0.49
35:BA:2743:C:C2	35:BA:2762:G:C2	3.01	0.49
35:BA:2811:G:H5'	39:BE:60:ASN:CG	2.32	0.49
35:BA:286:C:H42	35:BA:355:G:H1	1.61	0.49
35:BA:2875:C:H4'	51:BT:5:ALA:CB	2.43	0.49
35:BA:960:A:H5'	35:BA:2457:U:H4'	1.94	0.49
37:BC:10:LEU:CD1	37:BC:32:LEU:O	2.60	0.49
37:BC:7:TYR:HA	37:BC:10:LEU:HD23	1.94	0.49
38:BD:267:SER:O	38:BD:268:ARG:HB2	2.12	0.49
35:BA:2052:G:C4'	39:BE:143:ASN:O	2.57	0.49
39:BE:49:LEU:HD11	39:BE:91:VAL:CG2	2.43	0.49
40:BF:54:ARG:HB2	40:BF:79:GLY:O	2.12	0.49
41:BG:125:PHE:CD1	41:BG:125:PHE:N	2.76	0.49
41:BG:125:PHE:CB	41:BG:130:ASN:O	2.60	0.49
41:BG:139:LEU:HA	41:BG:144:ILE:HD13	1.95	0.49
41:BG:69:ALA:O	41:BG:90:LEU:HD12	2.13	0.49
42:BH:87:LEU:HB2	42:BH:131:VAL:O	2.13	0.49
45:BN:132:ALA:O	45:BN:133:GLN:HB2	2.13	0.49
45:BN:15:LEU:O	45:BN:136:GLU:HA	2.12	0.49
35:BA:662:G:H4'	47:BP:19:VAL:O	2.13	0.49
47:BP:79:ARG:O	47:BP:79:ARG:HG3	2.12	0.49
47:BP:9:ASN:O	47:BP:10:PRO:C	2.51	0.49
48:BQ:21:THR:HG22	48:BQ:23:GLY:O	2.13	0.49
49:BR:19:ALA:O	49:BR:23:ASN:HB2	2.13	0.49
49:BR:78:LYS:O	49:BR:83:ILE:HG12	2.12	0.49
50:BS:34:HIS:O	50:BS:35:ILE:HG22	2.13	0.49
50:BS:70:GLY:C	50:BS:72:ALA:N	2.66	0.49
51:BT:120:ARG:HA	51:BT:123:GLN:CD	2.33	0.49
51:BT:27:THR:HG23	51:BT:28:VAL:N	2.27	0.49
53:BV:19:LYS:HB3	53:BV:94:LEU:O	2.13	0.49
57:BZ:158:PRO:O	57:BZ:159:PRO:C	2.51	0.49
57:BZ:33:LEU:CG	57:BZ:34:ASN:N	2.75	0.49
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.13	0.49
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.77	0.49
1:AA:1442(B):A:HO2'	1:AA:1443:G:H8	1.61	0.49
1:AA:1493:A:C2'	1:AA:1494:G:C8	2.96	0.49
1:AA:1494:G:O6	1:AA:1495:U:O4	2.31	0.49
1:AA:1530:G:H2'	1:AA:1531:A:H8	1.77	0.49
1:AA:782:A:C2	1:AA:801:U:C2	3.01	0.49
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:60:ASP:HB3	2:AB:64:ARG:HH21	1.77	0.49
3:AC:155:GLY:O	3:AC:157:ILE:N	2.45	0.49
8:AH:100:ILE:O	8:AH:102:ARG:NH1	2.46	0.49
8:AH:39:LEU:HB3	8:AH:45:ILE:HG12	1.95	0.49
8:AH:48:TYR:CD2	8:AH:49:GLU:N	2.80	0.49
9:AI:53:VAL:HG13	9:AI:95:LYS:HZ2	1.77	0.49
9:AI:77:ILE:C	9:AI:79:LEU:N	2.66	0.49
11:AK:105:VAL:HG23	11:AK:105:VAL:O	2.13	0.49
14:AN:54:PRO:O	14:AN:56:VAL:HG23	2.13	0.49
1:AA:740:U:H4'	15:AO:42:HIS:ND1	2.27	0.49
17:AQ:58:GLU:OE1	17:AQ:75:ARG:NE	2.45	0.49
17:AQ:81:ARG:HB3	17:AQ:84:LEU:HD12	1.95	0.49
19:AS:44:MET:SD	29:B4:47:GLN:NE2	2.86	0.49
20:AT:73:HIS:ND1	20:AT:74:LYS:CD	2.76	0.49
24:AY:145:ASP:O	24:AY:176:GLY:O	2.31	0.49
24:AY:340:VAL:HG12	24:AY:342:ILE:HG22	1.95	0.49
24:AY:377:ASP:OD2	24:AY:378:THR:N	2.45	0.49
24:AY:415:GLY:CA	24:AY:457:TYR:CE1	2.95	0.49
29:B4:30:GLU:O	29:B4:31:ILE:HD12	2.12	0.49
31:B6:45:LYS:N	31:B6:45:LYS:CD	2.74	0.49
33:B8:38:GLY:O	33:B8:42:ARG:HB2	2.12	0.49
35:BA:1169:G:H2'	35:BA:1170:G:O4'	2.13	0.49
35:BA:1277:G:O2'	35:BA:1278:A:H5'	2.13	0.49
35:BA:151:C:O2'	35:BA:152:G:H5'	2.13	0.49
35:BA:1567:A:C4	38:BD:84:TYR:CD2	3.00	0.49
35:BA:1821:A:H8	35:BA:1821:A:O5'	1.96	0.49
35:BA:2103:C:H2'	35:BA:2104:G:C5'	2.42	0.49
35:BA:2232:U:O2'	35:BA:2233:U:H5'	2.13	0.49
33:B8:6:THR:OG1	35:BA:243:U:OP1	2.26	0.49
35:BA:2603:G:C2	35:BA:2604:U:N1	2.81	0.49
35:BA:324:A:H2'	35:BA:325:G:O4'	2.12	0.49
35:BA:602:G:N3	35:BA:602:G:H2'	2.28	0.49
35:BA:259:G:H21	35:BA:621:A:H8	1.61	0.49
35:BA:78:A:H8	35:BA:78:A:O5'	1.96	0.49
35:BA:832:G:N2	35:BA:833:U:C2	2.81	0.49
35:BA:956:G:C8	48:BQ:14:ARG:NH2	2.81	0.49
38:BD:9:TYR:OH	38:BD:13:ARG:NE	2.45	0.49
35:BA:2221:G:N2	38:BD:151:LYS:HE3	2.27	0.49
38:BD:224:ALA:CB	38:BD:233:HIS:HB3	2.42	0.49
38:BD:71:ASP:HB3	38:BD:103:ARG:NH1	2.22	0.49
41:BG:139:LEU:C	41:BG:141:PHE:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:161:THR:CG2	41:BG:172:LEU:CD1	2.90	0.49
42:BH:66:GLY:HA2	42:BH:69:ARG:CG	2.42	0.49
43:BJ:15:UNK:HA	43:BJ:18:UNK:CB	2.43	0.49
35:BA:1060:U:H3'	44:BK:1:UNK:CB	2.42	0.49
46:BO:50:GLY:C	46:BO:52:VAL:H	2.16	0.49
46:BO:68:GLU:N	46:BO:68:GLU:OE1	2.44	0.49
49:BR:26:LYS:HG3	49:BR:70:LEU:HD23	1.95	0.49
50:BS:54:LEU:O	50:BS:55:ALA:C	2.51	0.49
50:BS:95:HIS:CG	50:BS:96:GLY:N	2.80	0.49
51:BT:45:PHE:CZ	51:BT:74:ARG:HB2	2.46	0.49
51:BT:64:ARG:HG3	51:BT:73:GLU:HG2	1.95	0.49
52:BU:79:PHE:C	52:BU:79:PHE:CD1	2.86	0.49
54:BW:5:ALA:HB3	54:BW:105:VAL:H	1.77	0.49
30:B5:28:PRO:HG2	54:BW:35:ILE:HD13	1.94	0.49
56:BY:28:LYS:CG	56:BY:39:VAL:HA	2.42	0.49
56:BY:85:VAL:HG12	56:BY:86:ARG:N	2.28	0.49
57:BZ:68:PRO:O	57:BZ:91:LEU:HB2	2.13	0.49
1:AA:1055:A:C6	1:AA:1206:G:C4	3.01	0.49
1:AA:1314:C:C2	1:AA:1315:U:C6	3.01	0.49
1:AA:141:A:H4'	1:AA:182:U:C1'	2.42	0.49
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.12	0.49
1:AA:225:C:O2'	1:AA:226:G:H5'	2.13	0.49
1:AA:578:C:H4'	1:AA:729:A:O4'	2.13	0.49
1:AA:775:G:C2'	1:AA:776:G:H5'	2.42	0.49
2:AB:222:ILE:H	2:AB:222:ILE:CD1	2.25	0.49
2:AB:55:PHE:HE1	2:AB:218:ALA:CB	2.25	0.49
2:AB:72:GLY:O	2:AB:94:ASN:HA	2.13	0.49
3:AC:55:VAL:HG12	3:AC:55:VAL:O	2.12	0.49
3:AC:66:VAL:HB	3:AC:100:ALA:O	2.13	0.49
4:AD:174:LEU:HD23	4:AD:185:PHE:HA	1.93	0.49
5:AE:76:ILE:CG2	5:AE:118:ILE:HD12	2.43	0.49
6:AF:8:ILE:HG22	6:AF:10:LEU:HD12	1.94	0.49
14:AN:57:ARG:HH11	14:AN:57:ARG:CG	2.26	0.49
18:AR:76:LEU:O	18:AR:78:LEU:HG	2.13	0.49
24:AY:142:ASN:O	24:AY:143:LYS:CB	2.61	0.49
24:AY:198:GLY:HA2	24:AY:262:ASN:ND2	2.28	0.49
24:AY:79:TYR:HE2	24:AY:269:LEU:HD13	1.78	0.49
33:B8:56:GLU:N	33:B8:56:GLU:OE1	2.45	0.49
35:BA:1168:G:H2'	35:BA:1169:G:C8	2.48	0.49
35:BA:1224:C:N4	35:BA:1225:G:C6	2.81	0.49
35:BA:1301:A:O2'	35:BA:1302:A:H2'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1350:C:C4	35:BA:1382:G:C2	3.01	0.49
35:BA:1844:C:C2'	35:BA:1845:G:C5'	2.80	0.49
35:BA:1842:G:N3	35:BA:1901:A:C2	2.80	0.49
35:BA:1991:U:C2'	35:BA:1992:G:H5''	2.41	0.49
35:BA:2345:G:C2	35:BA:2381:C:H2'	2.48	0.49
35:BA:2422:A:C2	35:BA:2424:C:C2	3.00	0.49
35:BA:2447:G:O6	35:BA:2504:U:O4	2.31	0.49
35:BA:2557:G:H2'	35:BA:2558:C:H6	1.77	0.49
35:BA:2713:A:OP2	35:BA:2713:A:H4'	2.13	0.49
35:BA:2864:G:O2'	35:BA:2865:U:H5'	2.13	0.49
35:BA:625:G:O2'	35:BA:626:U:H5'	2.12	0.49
35:BA:724:U:O2'	35:BA:725:G:H5'	2.13	0.49
35:BA:680:G:N2	35:BA:798:G:C4	2.80	0.49
35:BA:824:A:C5	35:BA:825:C:C4	3.01	0.49
35:BA:840:C:H2'	35:BA:841:A:C8	2.47	0.49
35:BA:948:G:OP1	35:BA:962:G:OP1	2.29	0.49
40:BF:205:ARG:O	40:BF:205:ARG:CG	2.60	0.49
40:BF:53:THR:O	40:BF:55:GLY:N	2.46	0.49
41:BG:60:LEU:HD12	41:BG:68:PRO:HG3	1.95	0.49
42:BH:125:VAL:HA	42:BH:131:VAL:CG1	2.24	0.49
42:BH:148:ILE:N	42:BH:148:ILE:HD13	2.27	0.49
42:BH:46:GLU:O	42:BH:47:GLU:HB2	2.11	0.49
46:BO:43:VAL:HG23	46:BO:56:ASP:O	2.12	0.49
46:BO:8:LEU:HD23	46:BO:84:ALA:HB2	1.94	0.49
47:BP:115:LEU:HD23	47:BP:115:LEU:H	1.77	0.49
49:BR:9:LYS:C	49:BR:10:LEU:HD23	2.33	0.49
51:BT:27:THR:HG23	51:BT:28:VAL:H	1.78	0.49
51:BT:8:LYS:O	51:BT:11:GLU:OE1	2.30	0.49
52:BU:6:THR:HG21	52:BU:10:ARG:CZ	2.43	0.49
53:BV:58:VAL:O	53:BV:59:ALA:HB2	2.13	0.49
54:BW:7:ALA:O	54:BW:102:HIS:CB	2.61	0.49
35:BA:1598:C:C5'	55:BX:36:LYS:HD3	2.43	0.49
56:BY:64:GLU:O	56:BY:65:ALA:HB2	2.13	0.49
56:BY:67:LEU:CD2	56:BY:71:LYS:HB2	2.39	0.49
57:BZ:126:VAL:HA	57:BZ:163:LEU:HB2	1.94	0.49
57:BZ:24:LEU:HD13	57:BZ:44:PHE:CD2	2.48	0.49
57:BZ:29:TYR:HB2	57:BZ:33:LEU:O	2.12	0.49
36:BB:104:U:O2'	57:BZ:72:ARG:CG	2.59	0.49
1:AA:1112:C:O2	3:AC:179:ARG:HG2	2.13	0.48
1:AA:580:U:N3	1:AA:581:G:C4	2.81	0.48
1:AA:699:C:C2'	1:AA:700:G:H5'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:722:A:H2'	1:AA:722:A:N3	2.28	0.48
11:AK:108:ILE:CD1	11:AK:108:ILE:N	2.75	0.48
14:AN:27:CYS:C	14:AN:29:ARG:H	2.16	0.48
14:AN:29:ARG:NH1	14:AN:31:ARG:O	2.46	0.48
14:AN:40:CYS:O	14:AN:41:ARG:C	2.52	0.48
16:AP:33:ILE:N	16:AP:33:ILE:HD13	2.27	0.48
18:AR:29:PHE:CE1	18:AR:31:LEU:HB3	2.48	0.48
18:AR:29:PHE:HE1	18:AR:31:LEU:HB3	1.78	0.48
19:AS:51:VAL:CA	19:AS:58:VAL:HG22	2.43	0.48
19:AS:9:VAL:HG12	19:AS:11:VAL:CG1	2.25	0.48
20:AT:53:LEU:O	20:AT:55:ILE:N	2.46	0.48
24:AY:184:HIS:HE1	24:AY:191:TYR:CZ	2.30	0.48
24:AY:317:PHE:HA	24:AY:365:LEU:O	2.13	0.48
25:B0:27:GLU:HA	25:B0:67:VAL:C	2.34	0.48
27:B2:61:LEU:O	27:B2:65:ASN:N	2.46	0.48
28:B3:3:ARG:HB2	28:B3:59:VAL:O	2.12	0.48
35:BA:1477:A:C6	35:BA:1478:G:C5	3.01	0.48
35:BA:1612:C:C2'	35:BA:1613:G:O5'	2.61	0.48
35:BA:185:U:O2'	35:BA:186:G:H5'	2.12	0.48
26:B1:14:VAL:HG22	35:BA:188:G:H5'	1.94	0.48
35:BA:1914:C:C4'	35:BA:1914:C:O2	2.61	0.48
35:BA:1954:G:H1'	35:BA:1956:U:O4	2.12	0.48
35:BA:2234:G:C2	35:BA:2235:G:C8	3.01	0.48
35:BA:2290:G:N2	35:BA:2373:G:O2'	2.46	0.48
35:BA:2373:G:O2'	35:BA:2374:C:H5'	2.12	0.48
35:BA:245:G:O2'	35:BA:246:C:H5'	2.13	0.48
35:BA:2794:C:N4	35:BA:2801(A):A:H61	2.11	0.48
35:BA:447:A:C5	35:BA:454:A:N7	2.81	0.48
35:BA:62:C:O5'	35:BA:62:C:H6	1.95	0.48
35:BA:650:C:C5'	35:BA:651:G:OP2	2.61	0.48
35:BA:695:G:H4'	35:BA:1380:G:H5'	1.94	0.48
35:BA:729:G:H5'	35:BA:730:C:C5'	2.42	0.48
35:BA:740:U:H5''	35:BA:1784:A:OP1	2.13	0.48
35:BA:751:A:N7	35:BA:789:A:C6	2.81	0.48
35:BA:896:A:H4'	35:BA:897:C:OP2	2.13	0.48
35:BA:94(A):G:C2'	35:BA:95:G:O4'	2.60	0.48
35:BA:999:U:C5	35:BA:1154:G:C6	3.01	0.48
35:BA:998:C:C2'	35:BA:999:U:O5'	2.61	0.48
37:BC:114:VAL:HG12	37:BC:144:THR:HG22	1.95	0.48
37:BC:99:ILE:O	37:BC:99:ILE:HG22	2.13	0.48
38:BD:124:PRO:O	38:BD:126:GLN:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:46:ALA:HB2	39:BE:82:ARG:HA	1.94	0.48
40:BF:20:LEU:H	40:BF:24:LEU:HD21	1.78	0.48
42:BH:143:GLN:OE1	42:BH:143:GLN:CA	2.59	0.48
45:BN:103:VAL:O	45:BN:106:MET:N	2.29	0.48
45:BN:121:LYS:O	45:BN:122:VAL:CG2	2.61	0.48
46:BO:64:ARG:HD3	46:BO:79:PHE:CD2	2.47	0.48
48:BQ:66:ILE:HG13	48:BQ:66:ILE:O	2.12	0.48
50:BS:18:ILE:HD12	50:BS:18:ILE:N	2.28	0.48
50:BS:85:VAL:CG2	50:BS:86:ALA:H	2.26	0.48
55:BX:35:THR:HG22	55:BX:37:THR:H	1.78	0.48
1:AA:1082:G:H2'	1:AA:1083:U:O4'	2.12	0.48
1:AA:1353:G:C4	1:AA:1354:C:H5	2.32	0.48
1:AA:135:C:O2	16:AP:1:MET:N	2.39	0.48
1:AA:1375:A:C4	1:AA:1376:U:C5	3.01	0.48
1:AA:1407:C:O2'	1:AA:1408:A:H5''	2.13	0.48
1:AA:1412:C:C2	1:AA:1413:A:N7	2.80	0.48
1:AA:1413:A:O2'	1:AA:1414:U:H5'	2.13	0.48
1:AA:538:G:H5''	12:AL:114:LYS:CG	2.42	0.48
2:AB:12:GLU:O	2:AB:13:ALA:C	2.50	0.48
2:AB:25:ASN:HB2	2:AB:191:ASP:O	2.13	0.48
2:AB:47:THR:HA	2:AB:202:PRO:HG2	1.95	0.48
3:AC:121:ALA:HA	3:AC:124:ILE:HD12	1.95	0.48
4:AD:100:ARG:HB3	4:AD:103:ASN:HB3	1.95	0.48
4:AD:121:VAL:O	4:AD:134:ASP:HB3	2.13	0.48
4:AD:182:LYS:HE3	4:AD:182:LYS:HB2	1.58	0.48
4:AD:70:ILE:HG22	4:AD:71:SER:O	2.13	0.48
5:AE:36:ASP:CG	5:AE:40:ARG:HB2	2.33	0.48
6:AF:22:GLU:O	6:AF:23:LYS:C	2.49	0.48
6:AF:52:ILE:CG2	6:AF:87:ARG:HH12	2.26	0.48
7:AG:99:LEU:O	7:AG:100:ALA:C	2.52	0.48
13:AM:44:ARG:O	13:AM:48:LEU:HD21	2.13	0.48
14:AN:23:ARG:O	14:AN:24:CYS:C	2.50	0.48
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.12	0.48
17:AQ:9:VAL:O	17:AQ:11:VAL:HG13	2.13	0.48
19:AS:42:PRO:HG3	19:AS:67:VAL:CG1	2.43	0.48
22:AV:49:G:H2'	22:AV:50:U:C6	2.44	0.48
24:AY:158:VAL:O	24:AY:163:LYS:N	2.47	0.48
24:AY:15:THR:O	24:AY:107:ASP:N	2.36	0.48
1:AA:368:U:H6	24:AY:370:HIS:HE2	1.58	0.48
27:B2:24:LEU:HD22	27:B2:60:LEU:HD21	1.95	0.48
28:B3:3:ARG:HB2	28:B3:59:VAL:C	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:31:LEU:CD2	32:B7:42:LEU:HB3	2.43	0.48
35:BA:1087:G:C4	35:BA:1089:G:N7	2.81	0.48
35:BA:1419:A:O2'	35:BA:1420:U:H5''	2.13	0.48
35:BA:141:A:C6	35:BA:142:A:C6	3.01	0.48
35:BA:1539:G:C2	35:BA:1540:U:C1'	2.83	0.48
35:BA:1382:G:H4'	35:BA:1573:G:N3	2.28	0.48
35:BA:1624:G:C6	35:BA:1625:C:C4	3.01	0.48
35:BA:182:A:O2'	35:BA:183:C:H5'	2.12	0.48
35:BA:201:C:C2'	35:BA:202:U:C5'	2.89	0.48
35:BA:2185:C:O2	35:BA:2185:C:H2'	2.13	0.48
35:BA:2236:C:H2'	35:BA:2237:G:O4'	2.12	0.48
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.13	0.48
35:BA:2710:C:N4	35:BA:2711:A:N6	2.61	0.48
35:BA:2721:A:C2	35:BA:2873:A:C5	3.01	0.48
35:BA:322:A:C5'	35:BA:340:A:H1'	2.40	0.48
35:BA:349:G:C6	35:BA:350:U:C2	3.01	0.48
35:BA:483:A:H4'	56:BY:48:ALA:C	2.33	0.48
35:BA:589:C:O2'	35:BA:590:A:H5'	2.13	0.48
35:BA:607:U:O4	35:BA:619:G:H2'	2.13	0.48
35:BA:691:C:O5'	35:BA:691:C:H6	1.95	0.48
35:BA:854:G:N2	35:BA:924:C:C2	2.81	0.48
35:BA:920:G:C2	35:BA:921:G:C5	3.01	0.48
35:BA:920:G:N3	35:BA:921:G:C8	2.80	0.48
36:BB:107:G:C2	36:BB:108:U:C5	3.02	0.48
36:BB:63:G:H2'	36:BB:64:C:C6	2.48	0.48
36:BB:72:G:C2'	36:BB:73:A:H5''	2.43	0.48
38:BD:186:HIS:CE1	38:BD:188:GLU:H	2.30	0.48
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.78	0.48
38:BD:31:LYS:HG2	38:BD:33:LEU:HD22	1.95	0.48
40:BF:6:VAL:O	40:BF:7:TYR:HB2	2.13	0.48
41:BG:180:PHE:O	41:BG:182:LYS:N	2.45	0.48
41:BG:78:SER:O	41:BG:80:PHE:N	2.47	0.48
47:BP:122:PRO:HG3	47:BP:140:ALA:O	2.13	0.48
47:BP:65:ARG:O	47:BP:68:GLN:OE1	2.30	0.48
47:BP:77:ARG:HG3	47:BP:77:ARG:O	2.12	0.48
49:BR:11:ASN:O	49:BR:12:ARG:CB	2.60	0.48
53:BV:15:GLU:O	53:BV:16:PRO:C	2.52	0.48
56:BY:8:LYS:CE	56:BY:72:VAL:HG23	2.43	0.48
56:BY:76:CYS:O	56:BY:78:ALA:N	2.46	0.48
57:BZ:23:LYS:HD3	57:BZ:38:TYR:CE1	2.49	0.48
1:AA:1203:C:C4	1:AA:1204:A:N7	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1248:A:C5	1:AA:1249:C:C5	3.01	0.48
1:AA:333:G:H2'	1:AA:334:C:C6	2.48	0.48
1:AA:925:G:H1'	1:AA:1502:A:N9	2.27	0.48
2:AB:201:ILE:HG21	2:AB:214:ILE:HG21	1.93	0.48
2:AB:36:ARG:O	2:AB:39:ILE:N	2.39	0.48
3:AC:120:VAL:O	3:AC:121:ALA:C	2.51	0.48
3:AC:31:HIS:O	3:AC:32:LEU:C	2.52	0.48
4:AD:82:ALA:HB2	4:AD:92:VAL:HG12	1.95	0.48
6:AF:11:ASN:HA	6:AF:86:ARG:CZ	2.43	0.48
8:AH:33:GLU:O	8:AH:36:LEU:N	2.47	0.48
9:AI:42:ARG:NH1	9:AI:74:ILE:HD12	2.27	0.48
10:AJ:12:ASP:O	10:AJ:14:LYS:N	2.46	0.48
13:AM:3:ARG:O	13:AM:4:ILE:HG13	2.13	0.48
18:AR:38:GLU:HG2	18:AR:39:VAL:HG23	1.95	0.48
21:AU:13:ILE:O	21:AU:14:TRP:C	2.52	0.48
22:AV:8:U:O2	22:AV:48:C:O2	2.31	0.48
24:AY:155:LEU:C	24:AY:158:VAL:HG23	2.33	0.48
24:AY:22:PRO:O	24:AY:23:ASP:C	2.51	0.48
24:AY:198:GLY:C	24:AY:262:ASN:ND2	2.65	0.48
24:AY:445:GLN:C	24:AY:448:VAL:HB	2.32	0.48
24:AY:492:GLN:HB3	24:AY:504:ILE:HB	1.94	0.48
24:AY:513:LEU:O	24:AY:517:ARG:CG	2.62	0.48
31:B6:25:LYS:HD2	35:BA:2285:C:N4	2.28	0.48
34:B9:8:LYS:HB3	34:B9:8:LYS:HE2	1.72	0.48
34:B9:8:LYS:HE3	35:BA:1032:A:OP1	2.14	0.48
35:BA:1056:G:C4	35:BA:1102:C:H5	2.32	0.48
35:BA:1469:A:H2'	35:BA:1470:G:O4'	2.14	0.48
35:BA:1484:G:C3'	35:BA:1485:G:H5''	2.42	0.48
35:BA:1543:C:O5'	35:BA:1543:C:C6	2.67	0.48
35:BA:1786:A:C6	35:BA:1938:A:H2	2.29	0.48
35:BA:1667:G:O2'	35:BA:1991:U:O4	2.25	0.48
35:BA:2077:A:C2	35:BA:2078:C:C5	3.01	0.48
35:BA:2257:U:H2'	35:BA:2258:C:C6	2.48	0.48
35:BA:2499:C:H2'	35:BA:2500:U:O4'	2.13	0.48
35:BA:2516:G:C6	35:BA:2517:C:N4	2.82	0.48
35:BA:2525:G:N1	35:BA:2526:G:C5	2.81	0.48
35:BA:2547:U:O4'	35:BA:2566:A:C2	2.66	0.48
35:BA:2690:C:OP2	49:BR:14:SER:OG	2.24	0.48
35:BA:2729:G:C2	35:BA:2730:C:C2	3.00	0.48
35:BA:585:G:H2'	35:BA:586:A:N7	2.28	0.48
35:BA:655:A:H4'	35:BA:656:G:C5'	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:831:G:C6	35:BA:832:G:N7	2.81	0.48
36:BB:8:U:H5'	36:BB:8:U:H6	1.79	0.48
37:BC:100:ILE:O	37:BC:104:LEU:HG	2.13	0.48
37:BC:28:LEU:HD21	37:BC:222:VAL:HG22	1.95	0.48
38:BD:28:GLU:H	38:BD:29:PRO:CD	2.26	0.48
38:BD:85:ASP:OD2	38:BD:87:ASN:ND2	2.47	0.48
35:BA:2052:G:O3'	39:BE:143:ASN:O	2.32	0.48
40:BF:6:VAL:HG11	40:BF:124:LEU:HD13	1.95	0.48
40:BF:78:ILE:O	40:BF:80:ALA:N	2.38	0.48
41:BG:167:GLU:H	41:BG:167:GLU:CD	2.17	0.48
41:BG:51:ARG:CZ	41:BG:53:LEU:HD21	2.44	0.48
29:B4:6:HIS:HB3	41:BG:67:LYS:CE	2.43	0.48
42:BH:125:VAL:N	42:BH:126:PRO:HD3	2.27	0.48
47:BP:50:ARG:NH2	47:BP:51:PHE:CE2	2.81	0.48
51:BT:22:PHE:CE2	51:BT:85:LYS:HE3	2.48	0.48
51:BT:41:ARG:HG2	51:BT:41:ARG:HH11	1.79	0.48
52:BU:92:ARG:HH22	53:BV:10:LYS:CG	2.23	0.48
53:BV:91:TYR:C	53:BV:91:TYR:CD1	2.86	0.48
53:BV:22:VAL:HG22	53:BV:92:THR:O	2.13	0.48
1:AA:1076:C:C2	1:AA:1082:G:C2	3.01	0.48
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.45	0.48
1:AA:965:A:OP1	1:AA:1198:G:H5''	2.11	0.48
1:AA:1219:U:H2'	1:AA:1220:G:O4'	2.13	0.48
1:AA:1283:G:O2'	1:AA:1284:C:C6	2.43	0.48
1:AA:35:G:H2'	1:AA:36:C:H6	1.79	0.48
1:AA:502:G:C6	1:AA:503:C:C4	3.02	0.48
1:AA:770:C:O4'	1:AA:900:A:H2	1.96	0.48
1:AA:889:A:H4'	1:AA:890:G:OP1	2.13	0.48
1:AA:960:U:C5	1:AA:1225:A:C8	3.01	0.48
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.75	0.48
4:AD:187:ARG:CB	4:AD:187:ARG:HH11	2.25	0.48
5:AE:137:GLU:HA	5:AE:140:ARG:NH1	2.28	0.48
6:AF:24:GLU:O	6:AF:27:GLN:N	2.45	0.48
6:AF:86:ARG:O	6:AF:87:ARG:HG2	2.12	0.48
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.95	0.48
11:AK:67:ASP:O	11:AK:70:LYS:N	2.46	0.48
13:AM:107:ALA:O	13:AM:111:LYS:CD	2.62	0.48
13:AM:15:VAL:HG23	13:AM:16:ASP:N	2.28	0.48
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.95	0.48
13:AM:37:THR:O	13:AM:39:ILE:HG13	2.14	0.48
13:AM:68:GLY:O	13:AM:70:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:58:LYS:O	14:AN:59:ALA:C	2.51	0.48
15:AO:82:ILE:HA	15:AO:82:ILE:HD12	1.60	0.48
17:AQ:18:THR:HG23	17:AQ:44:ALA:O	2.13	0.48
20:AT:57:ARG:HH11	20:AT:57:ARG:HB2	1.77	0.48
22:AV:53:G:N2	22:AV:61:C:H42	2.11	0.48
24:AY:120:GLU:O	24:AY:121:ASP:C	2.51	0.48
24:AY:10:VAL:C	24:AY:279:PRO:CD	2.81	0.48
24:AY:289:VAL:HB	24:AY:321:VAL:O	2.13	0.48
24:AY:511:LEU:HD23	24:AY:515:GLN:OE1	2.13	0.48
24:AY:26:LYS:HG3	24:AY:88:ASP:OD1	2.13	0.48
25:B0:26:TYR:HE2	35:BA:857:C:C1'	2.20	0.48
25:B0:62:LEU:C	25:B0:63:VAL:HG22	2.34	0.48
26:B1:14:VAL:CG1	26:B1:39:LYS:HD2	2.43	0.48
26:B1:87:PRO:CG	26:B1:88:LYS:N	2.77	0.48
35:BA:999:U:HO2'	35:BA:1000:A:H5'	1.76	0.48
35:BA:1082:U:O5'	35:BA:1082:U:H6	1.96	0.48
35:BA:1124:C:N4	35:BA:1125:G:C6	2.82	0.48
35:BA:1140:C:H1'	35:BA:1143:A:C2	2.48	0.48
35:BA:1150:C:C2'	35:BA:1151:G:H5'	2.43	0.48
35:BA:1368:G:C2	35:BA:1369:G:N7	2.82	0.48
35:BA:1447:G:H4'	35:BA:1545:A:C4'	2.43	0.48
35:BA:1688:U:H2'	35:BA:1698:A:N6	2.28	0.48
35:BA:1799:G:N1	35:BA:1819:A:C8	2.81	0.48
35:BA:1814:G:H2'	35:BA:1815:A:N7	2.29	0.48
35:BA:2177:C:H3'	35:BA:2178:C:O2	2.13	0.48
35:BA:2392:A:H5'	35:BA:2392:A:N3	2.28	0.48
35:BA:2437:U:C2	35:BA:2438:U:C5	3.02	0.48
35:BA:2628:C:HO2'	35:BA:2781:A:H3'	1.78	0.48
35:BA:2681:C:O2	35:BA:2681:C:C2'	2.62	0.48
35:BA:285:C:H2'	35:BA:286:C:H6	1.75	0.48
35:BA:300:A:O5'	56:BY:97:ARG:NH1	2.46	0.48
35:BA:590:A:C2	35:BA:591:C:C2	3.02	0.48
35:BA:589:C:H42	35:BA:668:G:H1	1.61	0.48
35:BA:7:G:C8	35:BA:7:G:O5'	2.66	0.48
36:BB:111:G:H2'	36:BB:112:U:C5'	2.43	0.48
36:BB:76:G:C5	36:BB:77:U:C5	3.01	0.48
37:BC:145:VAL:O	37:BC:145:VAL:HG12	2.14	0.48
37:BC:14:VAL:CG2	37:BC:32:LEU:HD21	2.43	0.48
37:BC:161:ILE:HD12	37:BC:161:ILE:O	2.13	0.48
38:BD:33:LEU:CD2	38:BD:102:LYS:HB2	2.34	0.48
38:BD:148:GLU:C	38:BD:189:CYS:SG	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:80:ALA:CB	38:BD:94:LEU:HD13	2.44	0.48
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.14	0.48
41:BG:96:ARG:H	41:BG:99:MET:HE2	1.77	0.48
45:BN:116:LEU:O	45:BN:117:PHE:C	2.51	0.48
45:BN:65:LYS:HD3	45:BN:69:GLN:NE2	2.28	0.48
48:BQ:46:GLN:C	48:BQ:49:ALA:HB3	2.33	0.48
48:BQ:74:TYR:HD1	48:BQ:75:THR:N	2.11	0.48
50:BS:70:GLY:O	50:BS:72:ALA:N	2.47	0.48
54:BW:33:ARG:C	54:BW:34:ASN:HD22	2.15	0.48
57:BZ:125:LEU:HD23	57:BZ:164:ALA:HB3	1.94	0.48
1:AA:1004:A:H2'	1:AA:1005:A:H5'	1.96	0.48
1:AA:1407:C:H2'	1:AA:1408:A:H5''	1.90	0.48
1:AA:415:A:O2'	1:AA:416:G:H5'	2.14	0.48
1:AA:431:A:O2'	1:AA:432:A:H5'	2.13	0.48
1:AA:863:U:C5	1:AA:867:G:C6	3.02	0.48
1:AA:939:G:H1	1:AA:1344:C:N4	2.12	0.48
2:AB:177:ALA:CB	2:AB:184:VAL:HG22	2.43	0.48
2:AB:76:GLN:OE1	2:AB:206:ASP:O	2.32	0.48
3:AC:15:THR:HG23	3:AC:181:ASN:HA	1.96	0.48
3:AC:34:LEU:HD22	3:AC:38:ARG:HD2	1.95	0.48
4:AD:11:LEU:HB3	4:AD:66:ARG:HD3	1.96	0.48
4:AD:12:CYS:HA	4:AD:19:LEU:CB	2.35	0.48
4:AD:65:ARG:HA	4:AD:75:PHE:CE1	2.48	0.48
6:AF:9:VAL:HG22	6:AF:60:PHE:CD2	2.49	0.48
7:AG:135:VAL:O	7:AG:138:LYS:CB	2.53	0.48
8:AH:110:ALA:O	8:AH:112:LEU:HD23	2.13	0.48
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.61	0.48
13:AM:32:GLU:HA	13:AM:35:GLU:HG2	1.96	0.48
15:AO:45:VAL:HG13	15:AO:46:HIS:N	2.28	0.48
19:AS:12:ASP:HB2	19:AS:35:SER:OG	2.13	0.48
22:AV:5:G:H1	22:AV:68:C:N4	2.06	0.48
24:AY:308:ASP:OD1	24:AY:308:ASP:O	2.32	0.48
24:AY:310:LYS:C	24:AY:311:HIS:CD2	2.87	0.48
26:B1:42:GLN:OE1	35:BA:396:G:H1'	2.13	0.48
28:B3:40:THR:O	28:B3:41:PRO:C	2.51	0.48
29:B4:27:THR:O	29:B4:28:LYS:HB3	2.13	0.48
30:B5:40:LYS:HZ2	30:B5:45:VAL:HA	1.78	0.48
33:B8:55:ALA:O	33:B8:58:ILE:N	2.44	0.48
35:BA:1119:C:H2'	35:BA:1120:G:H8	1.77	0.48
35:BA:1604:C:O2'	35:BA:1605:C:H5'	2.14	0.48
35:BA:742:G:C5'	35:BA:1675:C:O2'	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1832:C:H2'	35:BA:1833:U:O4'	2.14	0.48
26:B1:14:VAL:HG21	35:BA:188:G:H5'	1.91	0.48
35:BA:1890:A:O5'	35:BA:1890:A:H8	1.97	0.48
35:BA:1909:C:N4	35:BA:1921:G:H1	2.11	0.48
30:B5:8:LYS:HE2	35:BA:2054:A:H2'	1.95	0.48
35:BA:2464:C:HO2'	35:BA:2465:C:P	2.36	0.48
35:BA:2720:U:H3'	35:BA:2721:A:C8	2.38	0.48
35:BA:2730:C:O2'	35:BA:2731:G:H5'	2.13	0.48
35:BA:2873:A:H3'	35:BA:2874:C:C5	2.48	0.48
35:BA:349:G:C6	35:BA:350:U:N3	2.81	0.48
35:BA:363:G:C5	35:BA:363(A):A:N7	2.81	0.48
35:BA:465:G:C6	35:BA:466:A:N6	2.82	0.48
35:BA:54:G:OP2	35:BA:54:G:C8	2.66	0.48
35:BA:58:G:N3	35:BA:73:A:C2	2.79	0.48
35:BA:774:A:N1	35:BA:787:U:O2'	2.40	0.48
35:BA:818:G:H5'	35:BA:839:U:OP1	2.13	0.48
36:BB:18:G:H2'	36:BB:19:G:C8	2.48	0.48
38:BD:14:ARG:HG3	38:BD:14:ARG:O	2.12	0.48
38:BD:186:HIS:NE2	38:BD:188:GLU:CG	2.77	0.48
38:BD:97:TYR:C	38:BD:99:ASP:N	2.63	0.48
39:BE:7:VAL:HA	39:BE:194:GLY:O	2.13	0.48
39:BE:22:PRO:O	39:BE:23:VAL:CG1	2.60	0.48
42:BH:44:VAL:HG13	42:BH:45:VAL:N	2.29	0.48
50:BS:18:ILE:O	50:BS:18:ILE:HG22	2.14	0.48
51:BT:53:ARG:NH1	51:BT:53:ARG:HB3	2.27	0.48
35:BA:2848:G:C8	51:BT:97:ALA:HB2	2.49	0.48
52:BU:75:ASN:O	52:BU:76:TYR:C	2.50	0.48
55:BX:10:ALA:HB3	55:BX:29:TRP:HB2	1.94	0.48
35:BA:1337:G:N7	55:BX:62:LYS:NZ	2.61	0.48
57:BZ:141:VAL:HA	57:BZ:144:LEU:CD2	2.31	0.48
57:BZ:25:PRO:HA	57:BZ:38:TYR:HB2	1.95	0.48
1:AA:945:G:N1	1:AA:1337:G:C2	2.82	0.48
1:AA:1424:C:H2'	1:AA:1425:U:O4'	2.14	0.48
1:AA:1484:C:H4'	35:BA:1961:C:C4'	2.43	0.48
1:AA:344:A:C5'	1:AA:345:C:H5	2.26	0.48
1:AA:767:A:H2'	1:AA:768:A:O4'	2.12	0.48
1:AA:796:C:C2	1:AA:797:C:C5	3.01	0.48
1:AA:939:G:N2	1:AA:940:C:C2	2.82	0.48
2:AB:141:GLU:O	2:AB:145:LEU:N	2.40	0.48
2:AB:236:TYR:HB3	2:AB:239:VAL:CG2	2.43	0.48
3:AC:182:ILE:HG12	3:AC:203:PHE:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:10:A:OP2	5:AE:126:ARG:HD2	2.14	0.48
5:AE:98:THR:HG21	5:AE:119:LEU:CD2	2.39	0.48
8:AH:11:THR:O	8:AH:13:ILE:N	2.45	0.48
9:AI:55:ALA:C	9:AI:57:GLY:N	2.65	0.48
11:AK:79:SER:HA	11:AK:104:GLN:HB3	1.95	0.48
18:AR:35:ARG:O	18:AR:37:VAL:HG13	2.13	0.48
18:AR:73:ALA:HB1	18:AR:79:LEU:HG	1.94	0.48
19:AS:20:LEU:HD22	19:AS:23:ASN:HD22	1.78	0.48
19:AS:75:ALA:H	19:AS:76:PRO:CD	2.27	0.48
19:AS:78:ARG:CB	19:AS:81:ARG:HH11	2.17	0.48
19:AS:9:VAL:HG13	19:AS:39:THR:CB	2.44	0.48
24:AY:21:HIS:CE1	24:AY:22:PRO:HD2	2.43	0.48
24:AY:431:ILE:HD11	24:AY:493:LEU:HB3	1.94	0.48
24:AY:468:VAL:HG13	24:AY:506:THR:HA	1.94	0.48
27:B2:50:ILE:HG22	27:B2:51:ARG:H	1.73	0.48
31:B6:37:ARG:O	31:B6:49:HIS:N	2.46	0.48
32:B7:11:LYS:CE	35:BA:686:G:C2	2.97	0.48
35:BA:1259:G:H2'	35:BA:1260:G:C8	2.48	0.48
35:BA:1295:C:C2	35:BA:1296:G:C8	3.01	0.48
35:BA:1389:G:H2'	35:BA:1390:U:O4'	2.13	0.48
35:BA:1551:C:C2'	35:BA:1552:G:H5'	2.43	0.48
35:BA:1935:G:H3'	35:BA:1962:C:H42	1.79	0.48
35:BA:1786:A:C4	35:BA:1938:A:N1	2.81	0.48
1:AA:1484:C:O4'	35:BA:1960:A:O2'	2.31	0.48
35:BA:1131:G:N7	35:BA:2025:C:C1'	2.76	0.48
35:BA:2057:A:O2'	35:BA:2058:A:H5'	2.14	0.48
35:BA:2074:U:O2'	35:BA:2597:G:H1'	2.14	0.48
35:BA:2645:G:C2'	35:BA:2646:C:H5'	2.44	0.48
35:BA:2658:C:H42	35:BA:2663:G:H1	1.61	0.48
35:BA:2726:U:O2'	35:BA:2727:G:O4'	2.31	0.48
35:BA:2779:U:H1'	35:BA:2781:A:C5	2.48	0.48
35:BA:354:G:H2'	35:BA:355:G:C8	2.48	0.48
35:BA:624:C:C5	47:BP:107:LYS:NZ	2.80	0.48
35:BA:993:G:C6	35:BA:994:C:C5	3.02	0.48
37:BC:20:TYR:O	37:BC:225:ASN:HB2	2.14	0.48
37:BC:56:GLN:HA	37:BC:201:PRO:CB	2.37	0.48
38:BD:211:ARG:O	38:BD:214:TRP:N	2.47	0.48
38:BD:45:ASN:ND2	38:BD:46:GLN:N	2.61	0.48
39:BE:15:PHE:HA	39:BE:19:ARG:O	2.13	0.48
39:BE:38:THR:HG22	39:BE:40:GLU:N	2.27	0.48
39:BE:9:VAL:HG11	39:BE:25:VAL:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:64:ILE:HG23	40:BF:65:TRP:CD2	2.48	0.48
41:BG:121:ASN:ND2	41:BG:123:ASN:H	2.11	0.48
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.61	0.48
42:BH:41:MET:HE2	42:BH:52:VAL:HG22	1.95	0.48
42:BH:91:GLY:HA3	42:BH:94:TYR:CE2	2.48	0.48
45:BN:22:THR:N	45:BN:61:ARG:HB2	2.29	0.48
48:BQ:101:ARG:HG3	48:BQ:101:ARG:NH1	2.28	0.48
48:BQ:125:LEU:HD22	48:BQ:125:LEU:H	1.77	0.48
49:BR:14:SER:CA	49:BR:17:ARG:NH2	2.64	0.48
50:BS:38:GLN:O	50:BS:39:ILE:HG13	2.12	0.48
50:BS:89:ARG:CG	50:BS:92:TYR:HA	2.44	0.48
51:BT:13:ARG:CA	51:BT:13:ARG:NE	2.76	0.48
52:BU:59:ARG:O	52:BU:62:ILE:N	2.46	0.48
52:BU:90:VAL:O	52:BU:92:ARG:N	2.47	0.48
53:BV:81:TYR:C	53:BV:82:ARG:HD2	2.33	0.48
1:AA:1071:C:H2'	1:AA:1072:G:C8	2.48	0.48
1:AA:109:A:C6	1:AA:327:A:C5	3.01	0.48
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.79	0.48
1:AA:115:G:O2'	1:AA:116:A:OP2	2.31	0.48
1:AA:59:A:C4	1:AA:331:G:N2	2.81	0.48
1:AA:80:G:H5''	1:AA:81:U:C6	2.49	0.48
1:AA:901:A:H2'	1:AA:902:G:C5'	2.43	0.48
2:AB:15:VAL:CG2	2:AB:209:ARG:HE	2.27	0.48
2:AB:208:ILE:O	2:AB:210:SER:N	2.47	0.48
2:AB:61:LEU:O	2:AB:62:ALA:C	2.51	0.48
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.28	0.48
4:AD:170:VAL:O	4:AD:171:GLY:C	2.51	0.48
5:AE:105:VAL:O	5:AE:109:ILE:HG13	2.13	0.48
7:AG:136:LYS:NZ	7:AG:140:ASP:OD1	2.40	0.48
7:AG:40:ALA:HB1	7:AG:44:TYR:HE2	1.74	0.48
13:AM:81:LEU:C	13:AM:93:ARG:HH11	2.17	0.48
17:AQ:77:VAL:O	17:AQ:77:VAL:HG12	2.14	0.48
17:AQ:95:TYR:HA	17:AQ:98:LEU:HD12	1.96	0.48
18:AR:41:LYS:O	18:AR:43:PHE:N	2.47	0.48
1:AA:1305:G:H5''	21:AU:5:ASP:N	2.29	0.48
24:AY:115:ALA:CB	24:AY:148:ILE:CB	2.91	0.48
24:AY:221:GLU:HA	24:AY:225:GLN:NE2	2.15	0.48
24:AY:305:ALA:CA	24:AY:422:GLU:HB3	2.44	0.48
24:AY:517:ARG:HG2	24:AY:517:ARG:NH1	2.28	0.48
24:AY:68:ILE:HB	24:AY:92:HIS:CE1	2.48	0.48
30:B5:16:ARG:HD2	30:B5:20:ARG:NH2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B5:51:TYR:HB3	30:B5:52:TYR:H	1.50	0.48
35:BA:109:G:O2'	35:BA:110:G:H5'	2.14	0.48
35:BA:1422:G:C4	35:BA:1423:G:C8	3.01	0.48
35:BA:1438:U:H5'	35:BA:1516:C:O3'	2.13	0.48
35:BA:1811:G:H2'	35:BA:1812:A:H8	1.78	0.48
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.29	0.48
35:BA:1853:A:O2'	35:BA:1854:A:H5'	2.13	0.48
35:BA:1856:G:H2'	35:BA:1857:G:O4'	2.13	0.48
35:BA:197:A:H5'	35:BA:197:A:H8	1.77	0.48
35:BA:2093:G:C6	35:BA:2225:A:N7	2.81	0.48
35:BA:2132:U:N3	37:BC:5:LYS:HB2	2.27	0.48
35:BA:2222:G:C2'	35:BA:2223:G:H5'	2.44	0.48
35:BA:2243:U:O2	35:BA:2434:A:H2	1.95	0.48
35:BA:2382:G:H3'	35:BA:2382:G:OP1	2.14	0.48
35:BA:2407:G:H2'	35:BA:2408:U:C6	2.48	0.48
35:BA:2692:C:H2'	35:BA:2693:A:C8	2.46	0.48
35:BA:2726:U:O2	35:BA:2726:U:H5'	2.13	0.48
35:BA:2807:G:H2'	35:BA:2808:U:C4'	2.42	0.48
35:BA:2884:U:C5	35:BA:2885:C:C5	3.02	0.48
35:BA:599:G:C2	35:BA:600:G:N7	2.82	0.48
35:BA:601:C:C5'	40:BF:108:LYS:HZ2	2.26	0.48
35:BA:845:G:O2'	35:BA:846:C:C5	2.64	0.48
36:BB:71:C:H2'	36:BB:72:G:H5'	1.96	0.48
38:BD:92:ILE:HA	38:BD:107:ALA:H	1.78	0.48
39:BE:37:ARG:HH11	39:BE:42:ASP:CG	2.16	0.48
41:BG:25:TYR:C	41:BG:26:GLN:OE1	2.52	0.48
42:BH:103:LEU:HG	42:BH:105:LEU:CD1	2.39	0.48
45:BN:112:LEU:O	45:BN:115:ARG:N	2.46	0.48
48:BQ:125:LEU:N	48:BQ:125:LEU:CD2	2.77	0.48
49:BR:29:LEU:CG	49:BR:52:ILE:HD11	2.44	0.48
51:BT:118:ARG:HA	51:BT:121:ILE:CG2	2.44	0.48
52:BU:65:ILE:HG23	52:BU:106:PHE:CZ	2.49	0.48
52:BU:76:TYR:O	52:BU:79:PHE:HB3	2.13	0.48
1:AA:1001(A):G:C8	1:AA:1002:G:C5	3.01	0.48
1:AA:102:G:H2'	1:AA:103:C:C6	2.49	0.48
1:AA:1046:A:C2	1:AA:1047:G:H1'	2.49	0.48
1:AA:1261:A:C2	1:AA:1262:C:H1'	2.49	0.48
1:AA:1418:A:C8	1:AA:1419:G:H1'	2.49	0.48
1:AA:171:A:H2'	1:AA:172:A:O4'	2.14	0.48
1:AA:296:U:C2	1:AA:302:G:N2	2.81	0.48
1:AA:951:G:C6	1:AA:1231:G:N1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:179:LYS:HA	8:AH:72:PRO:CD	2.42	0.48
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.14	0.48
3:AC:36:ASP:HA	3:AC:39:ILE:HD12	1.95	0.48
4:AD:128:VAL:HA	4:AD:145:GLU:O	2.14	0.48
5:AE:110:LEU:HA	5:AE:113:ALA:CB	2.44	0.48
5:AE:115:VAL:HG13	5:AE:116:THR:H	1.78	0.48
6:AF:45:LEU:HD13	6:AF:59:TYR:CD1	2.45	0.48
7:AG:133:GLY:O	7:AG:136:LYS:HB2	2.14	0.48
8:AH:14:ARG:O	8:AH:15:ASN:C	2.52	0.48
5:AE:152:ARG:CZ	8:AH:44:PHE:CE1	2.97	0.48
9:AI:42:ARG:HH12	9:AI:74:ILE:HD12	1.78	0.48
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.79	0.48
11:AK:46:GLY:O	11:AK:48:ILE:O	2.32	0.48
11:AK:59:TYR:CZ	11:AK:63:LEU:HD11	2.48	0.48
12:AL:70:ILE:O	12:AL:71:PRO:O	2.32	0.48
13:AM:88:ARG:HA	13:AM:98:VAL:CG1	2.43	0.48
14:AN:59:ALA:O	14:AN:60:SER:CB	2.62	0.48
15:AO:68:ARG:O	15:AO:71:GLN:N	2.47	0.48
17:AQ:46:ASP:CG	17:AQ:51:TYR:HD2	2.17	0.48
17:AQ:67:LYS:HG2	17:AQ:68:ARG:HG2	1.94	0.48
24:AY:16:PHE:HE2	24:AY:84:VAL:HG12	1.78	0.48
24:AY:267:HIS:CD2	24:AY:267:HIS:N	2.80	0.48
27:B2:6:VAL:O	27:B2:10:LEU:HG	2.14	0.48
28:B3:16:PRO:CB	28:B3:18:ASP:OD1	2.62	0.48
31:B6:22:ALA:HB2	31:B6:39:TYR:CE2	2.49	0.48
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.96	0.48
34:B9:10:ILE:O	34:B9:11:CYS:HB3	2.12	0.48
35:BA:1113:U:H6	35:BA:1113:U:O5'	1.97	0.48
35:BA:141:A:C2	35:BA:142:A:N1	2.81	0.48
35:BA:1425:G:C6	35:BA:1426:G:C2	3.01	0.48
35:BA:1502:C:H6	35:BA:1502:C:H5"	1.79	0.48
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.44	0.48
35:BA:2049:G:H2'	35:BA:2050:C:H5'	1.95	0.48
35:BA:2078:C:C2'	35:BA:2079:U:H5'	2.43	0.48
35:BA:2114:A:H2'	35:BA:2167:U:HO2'	1.78	0.48
35:BA:2252:G:O2'	35:BA:2253:G:H5'	2.13	0.48
35:BA:2463:C:O2	35:BA:2488:A:C2	2.66	0.48
35:BA:2579:C:H4'	39:BE:134:ILE:CG2	2.43	0.48
35:BA:2645:G:C8	35:BA:2645:G:OP2	2.63	0.48
35:BA:879:G:H1	35:BA:898:C:N4	2.12	0.48
35:BA:900:A:H5"	35:BA:901:A:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:907:U:O2	35:BA:907:U:H2'	2.13	0.48
38:BD:224:ALA:HA	38:BD:233:HIS:CB	2.44	0.48
39:BE:47:VAL:HB	39:BE:84:PHE:CD1	2.46	0.48
40:BF:119:ARG:NH1	40:BF:119:ARG:HG2	2.27	0.48
40:BF:84:VAL:O	40:BF:85:GLY:C	2.48	0.48
41:BG:181:ARG:O	41:BG:182:LYS:OXT	2.32	0.48
42:BH:106:THR:HG21	42:BH:112:PRO:C	2.29	0.48
42:BH:83:TYR:O	42:BH:84:SER:O	2.31	0.48
45:BN:108:PRO:HG2	45:BN:113:GLY:CA	2.43	0.48
45:BN:65:LYS:CD	45:BN:69:GLN:HE21	2.26	0.48
45:BN:74:ARG:HH22	45:BN:85:ILE:HD11	1.78	0.48
46:BO:68:GLU:OE1	46:BO:78:ARG:HD3	2.13	0.48
47:BP:106:LEU:HD11	47:BP:112:LEU:CG	2.39	0.48
47:BP:17:LYS:C	47:BP:19:VAL:H	2.16	0.48
47:BP:35:HIS:O	47:BP:36:LYS:O	2.31	0.48
47:BP:47:ASP:CB	47:BP:51:PHE:HB2	2.43	0.48
48:BQ:113:GLN:O	48:BQ:114:ALA:C	2.52	0.48
48:BQ:87:LYS:HG2	48:BQ:88:GLY:O	2.14	0.48
49:BR:97:VAL:HG13	49:BR:114:VAL:HG12	1.96	0.48
50:BS:56:LEU:O	50:BS:56:LEU:CG	2.62	0.48
51:BT:102:ILE:O	51:BT:102:ILE:HD12	2.14	0.48
51:BT:41:ARG:HH11	51:BT:41:ARG:CG	2.27	0.48
55:BX:20:GLY:C	55:BX:22:ALA:H	2.17	0.48
57:BZ:102:LEU:HD11	57:BZ:124:ILE:CD1	2.44	0.48
57:BZ:133:ILE:O	57:BZ:134:PRO:C	2.50	0.48
57:BZ:19:ARG:HH12	57:BZ:84:GLU:CB	2.25	0.48
1:AA:126:G:H2'	1:AA:127:G:O4'	2.14	0.48
1:AA:1407:C:C2'	1:AA:1408:A:H5'	2.36	0.48
1:AA:246:A:O3'	1:AA:247:G:H4'	2.14	0.48
1:AA:326:G:H2'	1:AA:327:A:H5'	1.92	0.48
1:AA:413:G:H1'	1:AA:428:G:H21	1.79	0.48
1:AA:598:U:C2'	1:AA:599:C:H6	2.22	0.48
1:AA:838:G:N2	1:AA:849:C:C2	2.82	0.48
1:AA:972:C:H4'	10:AJ:57:LYS:CG	2.42	0.48
2:AB:57:PHE:O	2:AB:60:ASP:HB3	2.14	0.48
3:AC:80:GLY:C	3:AC:82:GLU:H	2.17	0.48
1:AA:8:A:C6	4:AD:209:ARG:HB3	2.49	0.48
5:AE:118:ILE:CG1	5:AE:119:LEU:N	2.77	0.48
6:AF:46:ARG:HB2	6:AF:60:PHE:CE1	2.47	0.48
14:AN:21:TYR:N	14:AN:21:TYR:CD1	2.81	0.48
1:AA:1060:C:C5'	14:AN:45:ARG:NH2	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:58:GLU:OE1	17:AQ:74:LEU:HD12	2.14	0.48
20:AT:96:GLY:O	20:AT:97:ALA:O	2.32	0.48
24:AY:154:LEU:CB	24:AY:155:LEU:HD12	2.43	0.48
24:AY:170:THR:CB	24:AY:182:VAL:HG11	2.43	0.48
24:AY:23:ASP:N	24:AY:23:ASP:OD1	2.47	0.48
24:AY:513:LEU:HD22	24:AY:517:ARG:NE	2.29	0.48
26:B1:48:LYS:HA	26:B1:48:LYS:HD2	1.63	0.48
29:B4:9:LEU:CD1	29:B4:26:SER:H	2.26	0.48
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.47	0.48
35:BA:1071:G:H1'	35:BA:1089:G:H2'	1.95	0.48
35:BA:1363:C:C2	35:BA:1369:G:N1	2.82	0.48
35:BA:1381:G:H2'	35:BA:1382:G:C8	2.49	0.48
35:BA:1426:G:H2'	35:BA:1427:A:C8	2.49	0.48
35:BA:1542:A:C8	35:BA:1542:A:H3'	2.49	0.48
35:BA:1429:G:C4'	35:BA:1568:G:HO2'	2.26	0.48
35:BA:1798:U:OP1	38:BD:260:ARG:N	2.45	0.48
35:BA:1865:G:H5'	35:BA:1866:C:OP1	2.14	0.48
35:BA:2376:A:C2	35:BA:2377:A:C1'	2.97	0.48
35:BA:2400:G:C2	35:BA:2401:U:O2	2.67	0.48
35:BA:2428:G:O4'	35:BA:2429:G:C5	2.67	0.48
35:BA:2539:C:H2'	35:BA:2540:C:H6	1.79	0.48
35:BA:2695:C:H2'	35:BA:2696:U:H6	1.78	0.48
35:BA:2789:C:O2'	35:BA:2790:A:H1'	2.14	0.48
35:BA:2866:U:C6	35:BA:2868:A:H1'	2.48	0.48
35:BA:388:G:H5'	35:BA:389:G:OP2	2.13	0.48
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.47	0.48
36:BB:73:A:C8	36:BB:105:A:C6	3.02	0.48
36:BB:94:C:O2'	36:BB:95:C:H5'	2.14	0.48
37:BC:129:ARG:O	37:BC:129:ARG:HG3	2.12	0.48
37:BC:45:ALA:N	37:BC:171:ILE:O	2.47	0.48
38:BD:71:ASP:CG	38:BD:103:ARG:NH1	2.65	0.48
40:BF:156:LEU:CD2	40:BF:167:ALA:CB	2.91	0.48
40:BF:164:ARG:O	40:BF:165:ARG:C	2.52	0.48
35:BA:441:U:C2'	40:BF:46:ARG:HE	2.26	0.48
40:BF:81:PRO:CG	40:BF:82:ILE:H	2.27	0.48
35:BA:660:G:H5'	40:BF:99:TYR:CE1	2.49	0.48
41:BG:125:PHE:CD2	41:BG:131:TYR:HD1	2.30	0.48
41:BG:43:LEU:HD11	41:BG:153:ARG:HG3	1.96	0.48
41:BG:7:LEU:O	41:BG:10:LYS:N	2.46	0.48
42:BH:38:SER:HB3	42:BH:64:LEU:HD21	1.96	0.48
42:BH:92:ILE:HD12	42:BH:95:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BJ:127:UNK:HA	43:BJ:130:UNK:CB	2.44	0.48
48:BQ:77:LYS:HD3	48:BQ:81:VAL:CG1	2.44	0.48
50:BS:84:GLN:HB2	50:BS:106:ARG:HA	1.96	0.48
52:BU:112:ARG:HA	52:BU:115:ALA:HB2	1.96	0.48
56:BY:68:HIS:C	56:BY:70:SER:H	2.16	0.48
56:BY:8:LYS:H	56:BY:8:LYS:CD	2.18	0.48
1:AA:1000:U:H3	1:AA:1042:G:N2	2.12	0.48
1:AA:1091:U:O2	1:AA:1093:A:C8	2.67	0.48
1:AA:1305:G:HO2'	1:AA:1306:A:H8	1.62	0.48
1:AA:1346:A:C5'	9:AI:120:ARG:NH1	2.68	0.48
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.44	0.48
1:AA:377:G:H2'	1:AA:378:G:C8	2.49	0.48
1:AA:42:G:H2'	1:AA:43:C:H6	1.78	0.48
1:AA:601:C:C2	1:AA:638:G:N2	2.82	0.48
1:AA:708:C:O2'	1:AA:709:G:H5'	2.14	0.48
1:AA:735:C:H2'	1:AA:736:C:C5	2.47	0.48
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.14	0.48
1:AA:1190:G:OP1	3:AC:5:ILE:HD13	2.14	0.48
7:AG:71:PRO:HG3	7:AG:103:TRP:HZ3	1.79	0.48
9:AI:9:ARG:HG3	9:AI:14:VAL:HG22	1.96	0.48
10:AJ:64:GLU:OE2	10:AJ:66:ARG:NH2	2.46	0.48
10:AJ:81:THR:O	10:AJ:82:ILE:C	2.52	0.48
11:AK:101:SER:OG	11:AK:103:LEU:HD23	2.14	0.48
11:AK:121:PRO:HB2	11:AK:125:PHE:HB2	1.95	0.48
11:AK:80:VAL:CG2	11:AK:104:GLN:O	2.61	0.48
13:AM:73:GLU:O	13:AM:76:ALA:CB	2.62	0.48
1:AA:277:C:OP2	17:AQ:41:LYS:NZ	2.45	0.48
17:AQ:99:SER:OG	17:AQ:100:LYS:N	2.46	0.48
18:AR:56:THR:O	18:AR:58:LEU:N	2.47	0.48
19:AS:16:LEU:HA	19:AS:19:VAL:HB	1.96	0.48
19:AS:42:PRO:O	19:AS:43:GLU:HB3	2.14	0.48
20:AT:18:GLN:NE2	20:AT:22:ARG:NH1	2.51	0.48
20:AT:93:GLU:CD	20:AT:94:ALA:N	2.68	0.48
22:AV:47:U:N1	22:AV:50:U:OP1	2.47	0.48
24:AY:108:CYS:SG	24:AY:109:CYS:N	2.87	0.48
24:AY:142:ASN:ND2	58:AY:1000:GCP:C6	2.75	0.48
24:AY:144:LEU:HD12	24:AY:179:PHE:CZ	2.49	0.48
24:AY:216:ASP:O	24:AY:220:GLY:N	2.47	0.48
24:AY:253:PRO:HB2	24:AY:275:TRP:CZ3	2.49	0.48
24:AY:304:GLN:HG2	24:AY:304:GLN:O	2.13	0.48
24:AY:398:PHE:C	24:AY:399:ARG:HG2	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:498:GLY:O	24:AY:499:ASP:HB2	2.13	0.48
26:B1:48:LYS:HZ2	26:B1:61:ARG:HG2	1.79	0.48
27:B2:29:LYS:NZ	27:B2:57:ILE:CG2	2.77	0.48
28:B3:37:LEU:CD2	28:B3:38:GLU:H	2.17	0.48
32:B7:9:ARG:NH1	32:B7:9:ARG:HG3	2.29	0.48
35:BA:1462:C:H5''	35:BA:2703:C:H5'	1.96	0.48
35:BA:1527:G:H5''	35:BA:1528:A:OP1	2.14	0.48
35:BA:1964:G:C6	35:BA:1967:C:C4	3.02	0.48
35:BA:1996:C:OP1	35:BA:1996:C:C6	2.66	0.48
30:B5:8:LYS:NZ	35:BA:2055:C:OP1	2.45	0.48
35:BA:2247:A:C2	35:BA:2257:U:O2	2.67	0.48
25:B0:16:SER:OG	35:BA:2262:U:OP2	2.28	0.48
35:BA:2334:G:C6	50:BS:15:ARG:NH2	2.81	0.48
35:BA:2443:C:H2'	35:BA:2444:G:H5'	1.92	0.48
35:BA:2685:G:H4'	46:BO:67:LYS:HZ2	1.77	0.48
35:BA:2769:C:H2'	35:BA:2770:G:O4'	2.13	0.48
35:BA:654(H):G:O6	35:BA:654(L):G:N7	2.46	0.48
35:BA:783:A:H8	35:BA:784:A:O5'	1.96	0.48
35:BA:834:C:H2'	35:BA:835:A:O4'	2.14	0.48
35:BA:940:G:H2'	35:BA:941:A:C5'	2.44	0.48
37:BC:175:VAL:HG11	37:BC:189:ILE:CG1	2.38	0.48
37:BC:186:ALA:O	37:BC:190:ARG:NH1	2.47	0.48
1:AA:711:G:H4'	38:BD:138:VAL:CG1	2.43	0.48
38:BD:61:LEU:HD12	38:BD:62:TYR:O	2.14	0.48
39:BE:62:PRO:O	39:BE:63:LEU:C	2.52	0.48
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.95	0.48
29:B4:5:ILE:O	41:BG:67:LYS:HE2	2.14	0.48
44:BK:116:UNK:C	44:BK:118:UNK:N	2.76	0.48
45:BN:6:PRO:HG3	45:BN:41:ASP:O	2.14	0.48
51:BT:72:VAL:C	51:BT:73:GLU:HG3	2.33	0.48
53:BV:2:PHE:CD1	53:BV:13:ARG:NH1	2.81	0.48
53:BV:39:LEU:O	53:BV:40:LEU:CB	2.58	0.48
53:BV:78:LYS:C	53:BV:79:VAL:CG2	2.83	0.48
54:BW:43:GLY:C	54:BW:45:TYR:N	2.67	0.48
55:BX:6:ASP:O	55:BX:9:LEU:HD21	2.14	0.48
55:BX:8:ILE:O	55:BX:9:LEU:HD23	2.14	0.48
57:BZ:126:VAL:HA	57:BZ:163:LEU:CB	2.44	0.48
1:AA:1011:G:O2'	1:AA:1012:U:H5'	2.14	0.47
1:AA:1210:C:O4'	1:AA:1214:C:C4	2.66	0.47
1:AA:126:G:H1	1:AA:235:C:H42	1.62	0.47
1:AA:945:G:N2	1:AA:1337:G:N2	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:186:C:O5'	1:AA:186:C:H6	1.97	0.47
1:AA:282:A:C6	1:AA:283:C:C2	3.02	0.47
1:AA:773:G:C6	1:AA:774:G:N7	2.82	0.47
1:AA:817:C:H42	1:AA:1529:G:H1	1.60	0.47
1:AA:863:U:H5	1:AA:867:G:C6	2.31	0.47
1:AA:884:U:H4'	1:AA:885:G:H5''	1.95	0.47
5:AE:115:VAL:HG11	5:AE:118:ILE:HG22	1.97	0.47
5:AE:36:ASP:OD1	5:AE:40:ARG:HB2	2.14	0.47
6:AF:33:TYR:CE2	6:AF:75:LEU:HA	2.49	0.47
8:AH:46:LYS:HG3	8:AH:64:LYS:HB2	1.96	0.47
8:AH:72:PRO:O	8:AH:73:ASP:C	2.52	0.47
7:AG:37:ASN:ND2	9:AI:40:LEU:HD23	2.28	0.47
9:AI:82:ALA:CB	9:AI:96:LEU:HD21	2.42	0.47
16:AP:48:TRP:N	16:AP:48:TRP:CD1	2.82	0.47
16:AP:79:VAL:HB	16:AP:80:PHE:CE1	2.49	0.47
24:AY:111:MET:SD	24:AY:113:ILE:CD1	2.98	0.47
24:AY:149:ARG:O	24:AY:150:ASP:CB	2.62	0.47
24:AY:172:PRO:O	24:AY:227:LEU:HD13	2.14	0.47
24:AY:223:LEU:HD21	42:BH:97:ARG:HH22	1.78	0.47
24:AY:25:GLY:O	24:AY:29:ILE:HB	2.14	0.47
24:AY:346:LEU:N	24:AY:366:GLY:O	2.44	0.47
24:AY:403:LEU:HD11	24:AY:412:LEU:HD22	1.96	0.47
24:AY:449:VAL:CG2	24:AY:463:TYR:HH	2.26	0.47
29:B4:8:LYS:O	29:B4:9:LEU:CB	2.61	0.47
30:B5:7:PRO:HA	35:BA:2615:U:C4	2.49	0.47
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.66	0.47
35:BA:1787:A:C2	35:BA:1788:C:C4	3.02	0.47
35:BA:1812:A:C2	35:BA:1813:G:C4	3.02	0.47
35:BA:1799:G:N2	35:BA:1819:A:OP2	2.36	0.47
35:BA:1773:A:N3	35:BA:1978:A:C2	2.82	0.47
35:BA:2147:G:C2'	35:BA:2148:G:C5'	2.89	0.47
34:B9:19:ARG:NH1	35:BA:2755:C:H2'	2.29	0.47
35:BA:491:G:H2'	35:BA:492:A:H8	1.78	0.47
35:BA:595:C:C4	35:BA:596:G:N7	2.82	0.47
35:BA:600:G:H2'	35:BA:601:C:C6	2.49	0.47
35:BA:646:A:H3'	35:BA:647:G:H8	1.78	0.47
35:BA:666:G:H4'	47:BP:49:ARG:NE	2.29	0.47
35:BA:831:G:C6	35:BA:832:G:C5	3.02	0.47
35:BA:906:G:H4'	48:BQ:67:ARG:HH22	1.77	0.47
35:BA:90:U:C2'	35:BA:90:U:O2	2.61	0.47
36:BB:48:A:H2'	36:BB:49:C:C6	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:58:A:H2'	36:BB:59:A:O4'	2.13	0.47
37:BC:66:HIS:CE1	37:BC:184:LYS:NZ	2.82	0.47
38:BD:69:ARG:CZ	38:BD:105:ILE:HG13	2.44	0.47
38:BD:134:ARG:HG2	38:BD:135:PHE:HD1	1.78	0.47
38:BD:143:HIS:O	38:BD:144:ALA:CB	2.62	0.47
38:BD:248:SER:OG	38:BD:252:TRP:CD1	2.65	0.47
41:BG:11:TYR:CD2	41:BG:12:TYR:CD1	3.02	0.47
45:BN:107:LEU:HB3	45:BN:108:PRO:HD2	1.96	0.47
47:BP:100:LEU:HD22	47:BP:100:LEU:N	2.28	0.47
48:BQ:3:MET:O	48:BQ:4:PRO:O	2.32	0.47
49:BR:28:LEU:C	49:BR:30:THR:H	2.16	0.47
50:BS:30:ARG:NH2	50:BS:62:LYS:HB3	2.21	0.47
51:BT:28:VAL:HG22	51:BT:46:GLU:HA	1.96	0.47
52:BU:27:LEU:O	52:BU:28:ARG:C	2.51	0.47
52:BU:95:LEU:O	52:BU:98:LEU:HG	2.15	0.47
56:BY:13:VAL:HG23	56:BY:74:PRO:CA	2.35	0.47
56:BY:25:GLY:HA3	56:BY:39:VAL:CG1	2.44	0.47
56:BY:47:LYS:O	56:BY:48:ALA:HB2	2.14	0.47
1:AA:1015:A:C5	1:AA:1016:A:C5	3.02	0.47
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.15	0.47
1:AA:1009:G:C6	1:AA:1021:G:C6	3.02	0.47
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.78	0.47
1:AA:113:G:C2	1:AA:114:U:C2	3.02	0.47
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.15	0.47
1:AA:180:U:O4	1:AA:195:A:C8	2.67	0.47
1:AA:338:A:O2'	1:AA:339:C:H5'	2.15	0.47
1:AA:28:G:C2	1:AA:556:C:N3	2.82	0.47
1:AA:795:C:H4'	1:AA:1506:U:O2	2.14	0.47
1:AA:817:C:C4	1:AA:819:A:H1'	2.49	0.47
1:AA:938:A:C2'	1:AA:939:G:H5'	2.44	0.47
2:AB:7:VAL:HA	2:AB:11:LEU:HD12	1.96	0.47
2:AB:49:GLU:O	2:AB:52:GLU:HB3	2.14	0.47
2:AB:8:LYS:HZ3	2:AB:217:ARG:NH1	2.12	0.47
4:AD:108:LEU:O	4:AD:165:MET:HE2	2.14	0.47
5:AE:15:ARG:HD2	5:AE:26:PHE:CD2	2.48	0.47
6:AF:2:ARG:HD3	6:AF:92:LYS:CE	2.43	0.47
1:AA:1149:C:OP1	9:AI:14:VAL:HG21	2.14	0.47
10:AJ:12:ASP:C	10:AJ:14:LYS:N	2.66	0.47
10:AJ:40:LEU:N	10:AJ:40:LEU:CD2	2.72	0.47
10:AJ:8:LEU:HB2	10:AJ:70:ARG:HB2	1.95	0.47
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:32:ILE:CD1	11:AK:68:ALA:O	2.62	0.47
11:AK:44:SER:HA	11:AK:64:ALA:HB1	1.95	0.47
1:AA:690:G:N7	11:AK:55:LYS:NZ	2.62	0.47
14:AN:42:ILE:HA	14:AN:42:ILE:HD13	1.71	0.47
17:AQ:57:VAL:HG21	17:AQ:73:VAL:HG13	1.96	0.47
18:AR:44:LEU:O	18:AR:45:SER:C	2.52	0.47
19:AS:44:MET:O	19:AS:47:HIS:HB2	2.14	0.47
21:AU:20:LYS:CG	21:AU:20:LYS:O	2.61	0.47
22:AV:39:C:C4	22:AV:40:C:C5	3.02	0.47
22:AV:21:A:C5	22:AV:46:G:C6	3.02	0.47
24:AY:251:ILE:HD12	24:AY:252:THR:CA	2.43	0.47
24:AY:309:PRO:CG	24:AY:313:ASP:OD2	2.57	0.47
24:AY:472:ARG:HG3	24:AY:523:PHE:CE2	2.49	0.47
29:B4:16:CYS:SG	29:B4:17:GLY:N	2.87	0.47
35:BA:1057:A:N6	35:BA:1087:G:OP2	2.48	0.47
35:BA:1358:G:C2'	35:BA:1359:A:H5''	2.44	0.47
35:BA:1417:C:H2'	35:BA:1418:G:O4'	2.14	0.47
35:BA:1512:U:O2	35:BA:1512:U:H2'	2.13	0.47
35:BA:14:A:N6	35:BA:15:G:C2	2.81	0.47
35:BA:1853:A:C6	35:BA:1889:A:C5	3.02	0.47
35:BA:1947:C:C2	35:BA:1948:G:C8	3.02	0.47
35:BA:2010:G:H5''	54:BW:42:ARG:CB	2.44	0.47
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.45	0.47
35:BA:2177:C:H2'	35:BA:2178:C:O2	2.14	0.47
35:BA:2247:A:H2	35:BA:2257:U:O2	1.98	0.47
35:BA:2374:C:O2'	35:BA:2375:G:H5'	2.13	0.47
35:BA:2389:G:C5'	35:BA:2390:U:H5'	2.37	0.47
35:BA:2514:U:H1'	39:BE:151:TYR:OH	2.13	0.47
35:BA:2637:U:H5''	39:BE:82:ARG:HH21	1.78	0.47
35:BA:2646:C:H5	35:BA:2732:G:C4	2.32	0.47
35:BA:271(C):C:C2	35:BA:271(D):G:C8	3.03	0.47
35:BA:2739:U:C5	35:BA:2763:G:C6	3.02	0.47
35:BA:969:U:C4	35:BA:970:C:N4	2.83	0.47
36:BB:69:G:N2	36:BB:70:C:C1'	2.77	0.47
36:BB:98:G:O2'	36:BB:99:G:H5'	2.13	0.47
38:BD:142:VAL:O	38:BD:163:ALA:CB	2.60	0.47
38:BD:248:SER:OG	38:BD:252:TRP:CG	2.65	0.47
35:BA:1800:C:OP1	38:BD:266:SER:HB2	2.14	0.47
39:BE:1:MET:O	39:BE:3:GLY:N	2.47	0.47
41:BG:125:PHE:O	41:BG:128:ARG:O	2.31	0.47
41:BG:146:TYR:O	41:BG:149:VAL:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:133:LEU:HD21	41:BG:157:ILE:HD12	1.96	0.47
41:BG:25:TYR:CE2	41:BG:32:PRO:HD2	2.49	0.47
50:BS:39:ILE:HD12	50:BS:73:LEU:HD21	1.96	0.47
52:BU:93:LYS:H	52:BU:93:LYS:CD	2.27	0.47
52:BU:65:ILE:HG12	52:BU:96:ALA:HB1	1.95	0.47
54:BW:88:ARG:HB3	54:BW:92:ARG:HB2	1.96	0.47
57:BZ:52:SER:OG	57:BZ:53:ILE:HG12	2.15	0.47
1:AA:106:C:H42	20:AT:14:LYS:HZ3	1.61	0.47
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.80	0.47
1:AA:1262:C:N4	1:AA:1274:G:N2	2.61	0.47
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	2.15	0.47
1:AA:1416:G:C5	1:AA:1417:G:C5	3.02	0.47
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.15	0.47
1:AA:225:C:C2	1:AA:226:G:C8	3.03	0.47
1:AA:343:U:O2'	1:AA:344:A:H3'	2.15	0.47
1:AA:346:G:N3	1:AA:346:G:H2'	2.30	0.47
1:AA:107:G:H5'	1:AA:379:C:OP1	2.14	0.47
1:AA:381:C:H2'	1:AA:382:A:O4'	2.13	0.47
1:AA:513:C:O2'	1:AA:514:C:H5'	2.14	0.47
1:AA:657:G:O2'	1:AA:658:G:H5'	2.14	0.47
1:AA:68:G:C2	1:AA:69:G:H1'	2.49	0.47
1:AA:896:C:C6	1:AA:896:C:C3'	2.96	0.47
1:AA:958:A:H2'	1:AA:985:C:O2'	2.14	0.47
2:AB:98:LEU:HG	2:AB:98:LEU:H	1.38	0.47
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.15	0.47
3:AC:157:ILE:HB	3:AC:164:ARG:HE	1.79	0.47
3:AC:34:LEU:HD21	3:AC:38:ARG:CZ	2.44	0.47
4:AD:84:LYS:HA	4:AD:84:LYS:HD3	1.64	0.47
6:AF:33:TYR:CD2	6:AF:75:LEU:HB2	2.50	0.47
7:AG:149:ARG:HH11	7:AG:149:ARG:HG2	1.79	0.47
1:AA:1117:G:O3'	9:AI:104:ARG:NE	2.47	0.47
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.35	0.47
10:AJ:20:ALA:O	10:AJ:24:VAL:HG23	2.15	0.47
12:AL:18:VAL:O	12:AL:19:ARG:CB	2.63	0.47
14:AN:12:ARG:CB	14:AN:12:ARG:HH11	2.27	0.47
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.15	0.47
15:AO:9:GLN:O	15:AO:12:ILE:HB	2.14	0.47
16:AP:8:ARG:N	16:AP:29:ASP:OD1	2.45	0.47
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.52	0.47
17:AQ:81:ARG:HB3	17:AQ:83:ASP:OD1	2.14	0.47
18:AR:36:ASN:HB2	18:AR:39:VAL:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:38:LYS:HA	20:AT:41:ILE:HD11	1.95	0.47
24:AY:296:PHE:O	24:AY:380:THR:HA	2.14	0.47
24:AY:315:VAL:HG11	24:AY:346:LEU:HD12	1.96	0.47
24:AY:78:PRO:HB3	24:AY:83:LEU:HA	1.97	0.47
31:B6:15:GLU:CD	31:B6:18:ARG:NE	2.67	0.47
32:B7:30:VAL:O	32:B7:34:ARG:HG2	2.13	0.47
34:B9:18:ARG:HG3	34:B9:18:ARG:HH11	1.78	0.47
35:BA:80:G:C2	35:BA:107:C:N3	2.82	0.47
35:BA:1144:G:O2'	35:BA:1145:C:H5'	2.14	0.47
35:BA:1298:C:O2'	35:BA:1301:A:H1'	2.13	0.47
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.14	0.47
35:BA:1680:U:H2'	35:BA:1681:G:C8	2.50	0.47
35:BA:2459:A:N1	35:BA:2494:G:H1'	2.30	0.47
35:BA:2523:G:C1'	35:BA:2765:A:N7	2.77	0.47
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.95	0.47
35:BA:2578:G:N7	39:BE:140:SER:HB2	2.29	0.47
35:BA:2690:C:H5''	35:BA:2872:G:N2	2.29	0.47
35:BA:2705:A:C4	35:BA:2706:G:C8	3.03	0.47
35:BA:363(E):U:C4	35:BA:363(F):A:H2	2.32	0.47
35:BA:425:G:O2'	35:BA:426:C:H5'	2.14	0.47
35:BA:644:A:C8	35:BA:646:A:C2	3.02	0.47
35:BA:811:U:O2'	35:BA:812:C:H5''	2.14	0.47
35:BA:958:U:C3'	35:BA:958:U:C6	2.97	0.47
35:BA:953:A:N6	35:BA:964:C:H42	2.08	0.47
36:BB:78:A:C6	36:BB:100:A:C8	3.02	0.47
37:BC:40:THR:HG23	37:BC:176:GLY:C	2.35	0.47
37:BC:47:LEU:HD21	37:BC:171:ILE:CD1	2.41	0.47
40:BF:119:ARG:HH11	40:BF:119:ARG:CG	2.24	0.47
40:BF:126:VAL:CG2	40:BF:127:GLU:N	2.59	0.47
41:BG:15:VAL:HG12	41:BG:19:LEU:CD1	2.44	0.47
43:BJ:72:UNK:O	43:BJ:73:UNK:CB	2.62	0.47
43:BJ:27:UNK:O	43:BJ:83:UNK:N	2.47	0.47
45:BN:99:LEU:O	45:BN:103:VAL:N	2.36	0.47
47:BP:102:ARG:NH1	47:BP:102:ARG:HB2	2.29	0.47
49:BR:76:VAL:O	49:BR:80:PHE:HD2	1.97	0.47
51:BT:23:ARG:O	51:BT:25:GLY:N	2.47	0.47
51:BT:51:ARG:O	51:BT:61:PHE:CA	2.62	0.47
55:BX:29:TRP:CZ3	55:BX:59:VAL:HG21	2.43	0.47
57:BZ:139:VAL:HG12	57:BZ:140:ASP:H	1.79	0.47
1:AA:1074:G:H2'	1:AA:1075:C:C6	2.48	0.47
1:AA:123:C:H5''	1:AA:311:C:O2'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:148:G:N2	1:AA:175:C:C2	2.82	0.47
1:AA:47:C:H5	1:AA:366:C:OP2	1.96	0.47
1:AA:939:G:H2'	1:AA:940:C:H6	1.78	0.47
2:AB:157:ARG:HB2	2:AB:157:ARG:HH11	1.79	0.47
2:AB:220:ASP:O	2:AB:223:ILE:HB	2.15	0.47
2:AB:23:ARG:O	2:AB:23:ARG:HD2	2.15	0.47
2:AB:25:ASN:HB3	2:AB:192:SER:O	2.14	0.47
2:AB:9:GLU:C	2:AB:12:GLU:HB2	2.34	0.47
4:AD:107:ARG:NH1	4:AD:114:ARG:NH2	2.60	0.47
4:AD:174:LEU:HD21	4:AD:185:PHE:HA	1.95	0.47
6:AF:11:ASN:HA	6:AF:86:ARG:NH1	2.30	0.47
7:AG:72:ARG:CB	7:AG:142:GLU:OE2	2.62	0.47
1:AA:1048:G:OP1	14:AN:4:LYS:N	2.47	0.47
15:AO:69:TYR:HA	15:AO:72:ARG:HD2	1.96	0.47
17:AQ:5:VAL:CG1	17:AQ:58:GLU:HB3	2.45	0.47
22:AV:52:G:C4	22:AV:53:G:C8	3.03	0.47
24:AY:186:TYR:CZ	24:AY:241:PHE:CB	2.95	0.47
24:AY:193:TYR:CE1	24:AY:194:GLN:O	2.68	0.47
24:AY:324:LYS:HG2	24:AY:325:TYR:N	2.29	0.47
24:AY:78:PRO:CB	24:AY:83:LEU:CD2	2.91	0.47
29:B4:5:ILE:O	41:BG:67:LYS:CD	2.63	0.47
35:BA:132:G:H2'	35:BA:133:C:C6	2.49	0.47
35:BA:1509(B):A:O2'	35:BA:1510:G:H5'	2.15	0.47
35:BA:1549:C:C6	35:BA:1549:C:H5''	2.49	0.47
35:BA:2044:C:N3	35:BA:2625:G:C2	2.82	0.47
35:BA:2186:G:C2	35:BA:2187:G:C6	3.02	0.47
35:BA:2318:G:OP2	35:BA:2318:G:N2	2.44	0.47
35:BA:2547:U:O2'	46:BO:29:ASN:HB3	2.13	0.47
35:BA:2679:A:P	39:BE:160:TYR:OH	2.73	0.47
35:BA:2756:U:O2'	35:BA:2757:A:OP2	2.27	0.47
35:BA:428:A:H5'	35:BA:429:A:OP2	2.14	0.47
35:BA:441:U:H1'	40:BF:46:ARG:HH21	1.79	0.47
35:BA:534:U:H5'	52:BU:42:ALA:HB1	1.96	0.47
35:BA:564:C:C2	35:BA:565:C:C6	3.01	0.47
35:BA:740:U:H2'	35:BA:741:G:H8	1.72	0.47
35:BA:779:U:C2'	35:BA:780:G:H5'	2.44	0.47
35:BA:81:G:H2'	35:BA:82:G:C8	2.50	0.47
35:BA:861:A:N3	35:BA:862:G:O4'	2.48	0.47
35:BA:910:A:H2'	35:BA:911:A:C8	2.49	0.47
35:BA:866:A:C2	35:BA:914:C:C6	3.02	0.47
36:BB:107:G:O2'	36:BB:108:U:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:45:A:N3	36:BB:45:A:H2'	2.29	0.47
37:BC:22:ILE:HG22	37:BC:186:ALA:CB	2.43	0.47
38:BD:111:LEU:HD11	38:BD:115:GLN:CB	2.44	0.47
40:BF:154:VAL:CG1	40:BF:155:LEU:N	2.75	0.47
40:BF:25:PRO:HB3	40:BF:119:ARG:HG3	1.96	0.47
40:BF:65:TRP:CB	40:BF:66:PRO:HD2	2.44	0.47
41:BG:178:PHE:HB3	41:BG:180:PHE:HE1	1.79	0.47
41:BG:28:VAL:O	41:BG:29:TRP:CD2	2.67	0.47
42:BH:106:THR:HG21	42:BH:112:PRO:HB2	1.93	0.47
43:BJ:28:UNK:CB	43:BJ:81:UNK:O	2.63	0.47
46:BO:50:GLY:C	46:BO:52:VAL:N	2.67	0.47
48:BQ:21:THR:C	48:BQ:23:GLY:H	2.17	0.47
49:BR:36:THR:OG1	49:BR:37:THR:N	2.46	0.47
53:BV:35:LEU:N	53:BV:57:VAL:O	2.38	0.47
53:BV:95:LEU:HD11	53:BV:97:LYS:NZ	2.29	0.47
54:BW:88:ARG:HB3	54:BW:92:ARG:HD2	1.96	0.47
55:BX:88:LYS:HB2	55:BX:93:GLU:OE2	2.14	0.47
57:BZ:82:ARG:HH11	57:BZ:82:ARG:HG2	1.80	0.47
1:AA:107:G:N2	1:AA:108:G:H1'	2.30	0.47
1:AA:112:G:H5'	1:AA:389:A:C4'	2.34	0.47
1:AA:1251:A:O2'	1:AA:1370:G:H5'	2.15	0.47
1:AA:292:G:C2	1:AA:309:G:C6	3.03	0.47
1:AA:306:G:H2'	1:AA:307:C:H5'	1.97	0.47
1:AA:498:U:HO2'	1:AA:499:A:H8	1.59	0.47
1:AA:58:C:H6	1:AA:58:C:O5'	1.97	0.47
1:AA:799:G:O2'	1:AA:800:G:C5'	2.63	0.47
1:AA:807:A:H2'	1:AA:808:C:C6	2.43	0.47
1:AA:858:G:N2	1:AA:870:U:OP2	2.26	0.47
1:AA:951:G:C6	1:AA:1231:G:C6	3.03	0.47
1:AA:972:C:OP2	10:AJ:57:LYS:CE	2.60	0.47
2:AB:23:ARG:O	2:AB:23:ARG:CD	2.62	0.47
3:AC:20:SER:CB	3:AC:40:ARG:HH22	2.14	0.47
4:AD:127:THR:OG1	4:AD:149:ALA:HB2	2.14	0.47
1:AA:620:C:C1'	4:AD:135:LEU:HG	2.44	0.47
4:AD:59:ARG:NH1	4:AD:59:ARG:CG	2.77	0.47
6:AF:43:LEU:HD22	6:AF:43:LEU:H	1.79	0.47
7:AG:69:VAL:HG11	7:AG:104:LEU:HD22	1.97	0.47
8:AH:13:ILE:O	8:AH:17:THR:N	2.43	0.47
11:AK:85:ARG:HA	11:AK:112:THR:HA	1.95	0.47
12:AL:44:THR:HA	12:AL:51:ALA:O	2.13	0.47
13:AM:15:VAL:HG22	13:AM:41:PRO:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:62:GLN:O	15:AO:63:ARG:C	2.53	0.47
15:AO:68:ARG:CD	15:AO:72:ARG:HH21	2.26	0.47
17:AQ:62:SER:HB2	17:AQ:71:PHE:HA	1.96	0.47
17:AQ:63:ARG:HG2	17:AQ:64:PRO:N	2.28	0.47
18:AR:74:ARG:N	18:AR:79:LEU:HB2	2.29	0.47
22:AV:48:C:H5'	22:AV:49:G:H5''	1.95	0.47
24:AY:401:ILE:HG12	24:AY:463:TYR:HE2	1.76	0.47
33:B8:38:GLY:HA2	33:B8:41:ILE:CG2	2.43	0.47
34:B9:16:VAL:O	34:B9:17:ILE:C	2.51	0.47
35:BA:974:G:C6	35:BA:1186:G:O6	2.67	0.47
35:BA:1509(B):A:C2'	35:BA:1510:G:H5'	2.45	0.47
35:BA:1308:A:C2	35:BA:1611:C:H1'	2.49	0.47
35:BA:1794:U:C2	35:BA:1795:C:C5	3.03	0.47
35:BA:1791:A:N1	35:BA:1829:A:O4'	2.47	0.47
35:BA:1847:A:N6	35:BA:1893:C:N4	2.61	0.47
35:BA:2115:G:N2	35:BA:2119:A:P	2.82	0.47
35:BA:2140:C:H2'	35:BA:2141:G:H8	1.78	0.47
35:BA:2265:U:H2'	35:BA:2266:A:H8	1.74	0.47
35:BA:2282:G:H4'	35:BA:2283:C:OP2	2.14	0.47
35:BA:2435:A:C6	35:BA:2436:G:N7	2.82	0.47
35:BA:2453:A:H8	35:BA:2453:A:H3'	1.78	0.47
35:BA:2712:U:OP1	35:BA:2714:G:H4'	2.13	0.47
35:BA:2715:C:O2'	35:BA:2716:U:C5'	2.62	0.47
35:BA:406:G:H2'	35:BA:407:G:H8	1.78	0.47
35:BA:65:C:O2'	35:BA:66:C:H5'	2.15	0.47
35:BA:852:G:C6	35:BA:926:A:C6	3.03	0.47
35:BA:874:G:H2'	35:BA:875:G:C8	2.50	0.47
36:BB:71:C:C2'	36:BB:72:G:H5'	2.45	0.47
37:BC:45:ALA:CB	37:BC:171:ILE:HG22	2.41	0.47
38:BD:16:MET:O	38:BD:17:THR:OG1	2.27	0.47
35:BA:1798:U:OP1	38:BD:260:ARG:HB3	2.15	0.47
38:BD:271:ILE:HG13	38:BD:272:ALA:N	2.30	0.47
38:BD:29:PRO:O	38:BD:29:PRO:HG2	2.15	0.47
39:BE:105:THR:HG23	39:BE:166:THR:OG1	2.15	0.47
35:BA:2820:A:O2'	39:BE:191:PRO:HG3	2.13	0.47
39:BE:13:ARG:CA	39:BE:22:PRO:HA	2.45	0.47
40:BF:111:ALA:CB	40:BF:206:ILE:HG21	2.30	0.47
40:BF:65:TRP:CB	40:BF:66:PRO:CD	2.92	0.47
40:BF:66:PRO:O	40:BF:68:LYS:N	2.47	0.47
41:BG:76:SER:HB3	41:BG:83:ARG:CB	2.42	0.47
41:BG:7:LEU:O	41:BG:8:LYS:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:109:PHE:H	42:BH:152:ARG:HH12	1.62	0.47
44:BK:82:UNK:O	44:BK:83:UNK:C	2.61	0.47
45:BN:34:LEU:CD1	45:BN:52:VAL:HG23	2.39	0.47
46:BO:6:THR:CG2	46:BO:7:TYR:H	2.27	0.47
48:BQ:21:THR:CG2	48:BQ:23:GLY:O	2.62	0.47
48:BQ:55:VAL:HA	48:BQ:58:PHE:CD1	2.47	0.47
48:BQ:57:HIS:C	48:BQ:57:HIS:ND1	2.67	0.47
51:BT:101:PHE:CE1	51:BT:102:ILE:HG22	2.49	0.47
51:BT:111:ARG:HG2	51:BT:111:ARG:HH11	1.80	0.47
51:BT:28:VAL:HG13	51:BT:46:GLU:HA	1.95	0.47
51:BT:24:PRO:HA	51:BT:49:VAL:HG13	1.96	0.47
52:BU:59:ARG:O	52:BU:61:TRP:N	2.47	0.47
53:BV:2:PHE:CE1	53:BV:13:ARG:NH1	2.82	0.47
35:BA:482:A:H4'	56:BY:47:LYS:CD	2.45	0.47
1:AA:1055:A:C2	1:AA:1206:G:H1'	2.50	0.47
1:AA:1152:A:C2	1:AA:1153:C:C4	3.03	0.47
1:AA:1250:A:N3	1:AA:1370:G:O2'	2.44	0.47
1:AA:1321:C:H6	1:AA:1321:C:H5''	1.79	0.47
1:AA:1394:A:N6	1:AA:1500:A:O2'	2.47	0.47
1:AA:1418:A:N7	1:AA:1419:G:H1'	2.30	0.47
1:AA:1426:C:H2'	1:AA:1427:U:H6	1.78	0.47
1:AA:1495:U:H2'	1:AA:1496:C:C5'	2.37	0.47
1:AA:13:U:O2'	1:AA:14:U:H5'	2.13	0.47
1:AA:541:G:O2'	1:AA:542:G:H5'	2.15	0.47
1:AA:597:G:C6	1:AA:644:G:C6	3.03	0.47
1:AA:64:G:H5''	1:AA:65:U:OP1	2.15	0.47
1:AA:799:G:O2'	1:AA:800:G:H5'	2.14	0.47
1:AA:918:A:H2'	1:AA:919:A:H8	1.69	0.47
2:AB:180:LEU:O	2:AB:182:ILE:N	2.48	0.47
2:AB:97:TRP:CZ3	2:AB:172:ILE:HG22	2.46	0.47
3:AC:142:MET:O	3:AC:145:GLY:N	2.47	0.47
4:AD:89:THR:CA	4:AD:92:VAL:HB	2.35	0.47
5:AE:41:VAL:CG2	5:AE:67:VAL:CG1	2.90	0.47
6:AF:15:ASP:OD1	6:AF:18:GLN:NE2	2.47	0.47
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.14	0.47
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.45	0.47
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.78	0.47
15:AO:68:ARG:HG3	15:AO:72:ARG:NE	2.28	0.47
16:AP:72:ARG:NE	16:AP:73:LEU:HD21	2.29	0.47
20:AT:104:LEU:CD2	20:AT:104:LEU:C	2.83	0.47
22:AV:33:U:C6	22:AV:33:U:H3'	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:50:U:H3'	22:AV:51:C:C5	2.49	0.47
24:AY:307:MET:SD	24:AY:307:MET:C	2.88	0.47
27:B2:71:ASN:O	27:B2:72:ALA:HB2	2.14	0.47
31:B6:7:ILE:CG2	31:B6:27:LYS:NZ	2.78	0.47
35:BA:1011:G:HO2'	35:BA:1013:C:H6	1.62	0.47
35:BA:1388:G:C4	35:BA:1400:G:N2	2.82	0.47
35:BA:1662:C:O2'	35:BA:2687:U:H5''	2.15	0.47
35:BA:1941:C:C4	35:BA:1942:C:C4	3.02	0.47
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.50	0.47
35:BA:2270:G:H2'	35:BA:2271:G:O4'	2.15	0.47
35:BA:2308:G:H2'	35:BA:2309:A:C8	2.50	0.47
35:BA:2439:A:H5''	35:BA:2439:A:H8	1.79	0.47
35:BA:244:A:H4'	47:BP:74:GLU:HB2	1.97	0.47
35:BA:2464:C:N4	35:BA:2487:G:C6	2.83	0.47
35:BA:2592:G:N1	35:BA:2603:G:C6	2.83	0.47
35:BA:2612:C:H2'	35:BA:2613:U:H5'	1.97	0.47
35:BA:2619:C:H4'	39:BE:151:TYR:O	2.14	0.47
35:BA:2845:G:H2'	35:BA:2846:G:H8	1.76	0.47
35:BA:669:G:H5''	35:BA:670:A:OP2	2.14	0.47
35:BA:777:A:O2'	35:BA:778:G:H5'	2.13	0.47
35:BA:920:G:N2	35:BA:921:G:C4	2.83	0.47
35:BA:962:G:H21	35:BA:963:U:H1'	1.76	0.47
36:BB:73:A:H2'	36:BB:74:U:C5'	2.44	0.47
37:BC:42:GLU:HG2	37:BC:44:HIS:NE2	2.30	0.47
38:BD:267:SER:HB3	38:BD:270:ILE:HD11	1.97	0.47
38:BD:35:LYS:O	38:BD:62:TYR:O	2.32	0.47
39:BE:48:GLN:NE2	39:BE:64:LYS:NZ	2.62	0.47
35:BA:1068:G:OP2	44:BK:22:UNK:C	2.63	0.47
45:BN:87:LEU:O	45:BN:90:MET:HB2	2.15	0.47
48:BQ:115:MET:O	48:BQ:116:GLU:C	2.52	0.47
49:BR:4:LEU:HD12	49:BR:7:GLY:HA2	1.97	0.47
51:BT:16:ARG:HH12	51:BT:19:LEU:CG	2.25	0.47
52:BU:26:GLY:C	52:BU:28:ARG:H	2.16	0.47
35:BA:1252:G:C1'	52:BU:33:ARG:HD3	2.44	0.47
53:BV:21:ARG:HG2	53:BV:91:TYR:CD1	2.50	0.47
52:BU:112:ARG:NH2	53:BV:46:VAL:HG21	2.30	0.47
57:BZ:127:LYS:NZ	57:BZ:127:LYS:CB	2.78	0.47
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.15	0.47
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.29	0.47
1:AA:986:A:C6	1:AA:1220:G:C6	3.03	0.47
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1306:A:C5	1:AA:1307:U:C5	3.03	0.47
1:AA:1452:C:H5'	1:AA:1456:G:C6	2.49	0.47
1:AA:39:G:C2'	1:AA:40:C:H5'	2.44	0.47
1:AA:551:U:HO2'	1:AA:552:U:H5'	1.76	0.47
1:AA:796:C:C4	1:AA:797:C:H5	2.32	0.47
1:AA:858:G:C6	1:AA:869:G:C8	3.02	0.47
1:AA:979:C:O2'	14:AN:19:ARG:NH2	2.47	0.47
2:AB:189:ASP:HB3	2:AB:205:ASP:OD2	2.14	0.47
4:AD:11:LEU:HD13	4:AD:66:ARG:CZ	2.44	0.47
4:AD:188:LEU:O	4:AD:189:PRO:O	2.31	0.47
4:AD:64:LEU:CD2	4:AD:203:VAL:HG21	2.44	0.47
5:AE:18:ARG:HG3	5:AE:25:ARG:O	2.14	0.47
6:AF:67:MET:CE	6:AF:68:PRO:O	2.62	0.47
7:AG:40:ALA:O	7:AG:43:PHE:N	2.47	0.47
8:AH:111:ILE:O	8:AH:112:LEU:HB3	2.15	0.47
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.75	0.47
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.15	0.47
12:AL:32:PHE:O	12:AL:33:ARG:HB2	2.15	0.47
12:AL:89:ARG:CD	12:AL:91:LYS:N	2.78	0.47
16:AP:67:THR:CG2	16:AP:68:ASP:H	2.20	0.47
18:AR:34:TYR:O	18:AR:34:TYR:CD1	2.67	0.47
19:AS:15:LEU:CD1	19:AS:19:VAL:HG21	2.45	0.47
19:AS:30:LEU:HD21	19:AS:32:LYS:HZ3	1.79	0.47
22:AV:48:C:P	22:AV:48:C:C6	3.08	0.47
23:AX:16:A:H2'	23:AX:17:U:C6	2.49	0.47
24:AY:116:ALA:O	24:AY:149:ARG:HD2	2.13	0.47
24:AY:7:LEU:CD2	24:AY:292:SER:HB3	2.44	0.47
24:AY:404:LYS:O	24:AY:405:ASP:CB	2.57	0.47
24:AY:431:ILE:HD11	24:AY:493:LEU:CB	2.44	0.47
24:AY:498:GLY:O	24:AY:499:ASP:OD1	2.32	0.47
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.83	0.47
30:B5:44:THR:CG2	30:B5:45:VAL:N	2.78	0.47
33:B8:6:THR:CG2	35:BA:243:U:OP1	2.62	0.47
34:B9:19:ARG:NH1	35:BA:2755:C:H3'	2.29	0.47
35:BA:120:U:C6	35:BA:149:A:C2	3.02	0.47
35:BA:1252:G:O4'	52:BU:33:ARG:CD	2.55	0.47
35:BA:1304:C:C2	35:BA:1305:C:C5	3.03	0.47
35:BA:1470:G:N2	35:BA:1523:U:C4	2.83	0.47
35:BA:2010:G:H5''	54:BW:42:ARG:HB2	1.96	0.47
35:BA:2371:G:N2	35:BA:2372:G:C4	2.83	0.47
35:BA:2450:A:C2	35:BA:2451:A:N9	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2479:G:OP1	35:BA:2537:U:H1'	2.15	0.47
35:BA:2553:G:N3	35:BA:2583:G:H1'	2.30	0.47
35:BA:2580:U:H4'	39:BE:130:GLY:HA3	1.96	0.47
35:BA:2712:U:HO2'	35:BA:2712(A):A:H3'	1.79	0.47
35:BA:2788:C:H4'	35:BA:2810:A:O4'	2.15	0.47
35:BA:472:A:H5'	35:BA:472:A:C8	2.46	0.47
35:BA:644:A:C2	35:BA:2369:A:O2'	2.65	0.47
35:BA:906:G:H5'	35:BA:907:U:OP2	2.14	0.47
35:BA:948:G:C6	35:BA:949:C:N4	2.82	0.47
35:BA:998:C:H2'	35:BA:999:U:O5'	2.14	0.47
36:BB:73:A:O2'	36:BB:74:U:H5'	2.15	0.47
37:BC:90:GLY:O	37:BC:153:ILE:HG22	2.14	0.47
35:BA:1800:C:OP1	38:BD:266:SER:CB	2.63	0.47
39:BE:28:ALA:O	39:BE:29:GLY:O	2.33	0.47
40:BF:52:LYS:C	40:BF:88:VAL:HG12	2.35	0.47
41:BG:12:TYR:O	41:BG:16:ARG:HB2	2.14	0.47
41:BG:56:ALA:CB	41:BG:153:ARG:HH21	2.28	0.47
41:BG:87:PRO:O	41:BG:88:ILE:HG13	2.13	0.47
45:BN:99:LEU:CD1	45:BN:103:VAL:HG23	2.44	0.47
45:BN:100:GLU:O	45:BN:117:PHE:HE1	1.98	0.47
48:BQ:62:GLY:HA3	48:BQ:109:VAL:CG2	2.45	0.47
52:BU:114:LYS:CA	52:BU:117:GLN:HB2	2.43	0.47
52:BU:47:TYR:O	52:BU:47:TYR:CD1	2.68	0.47
35:BA:564:C:OP1	53:BV:77:ALA:HB2	2.15	0.47
53:BV:98:GLU:C	53:BV:99:ILE:HD13	2.35	0.47
54:BW:33:ARG:HG2	54:BW:52:GLU:OE2	2.15	0.47
55:BX:83:VAL:O	55:BX:84:ALA:C	2.53	0.47
1:AA:1292:U:OP2	7:AG:41:ARG:NH2	2.48	0.47
1:AA:1305:G:OP1	21:AU:2:GLY:CA	2.63	0.47
1:AA:139:G:H2'	1:AA:140:A:H8	1.79	0.47
1:AA:163:C:H2'	1:AA:164:U:C5	2.48	0.47
1:AA:344:A:H5''	1:AA:345:C:C5	2.48	0.47
1:AA:393:A:H5'	1:AA:483:C:O2'	2.15	0.47
1:AA:613:C:C2	1:AA:628:G:N2	2.82	0.47
1:AA:773:G:C6	1:AA:807:A:N6	2.83	0.47
1:AA:896:C:H2'	1:AA:897:C:C5'	2.44	0.47
2:AB:165:VAL:CG2	2:AB:166:ASP:H	2.26	0.47
3:AC:9:GLY:O	3:AC:10:PHE:C	2.51	0.47
3:AC:119:ARG:O	3:AC:122:GLU:HB2	2.15	0.47
3:AC:165:THR:O	3:AC:165:THR:CG2	2.62	0.47
5:AE:12:LEU:CD2	5:AE:13:ILE:N	2.65	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:76:ILE:HG13	5:AE:77:PRO:CD	2.44	0.47
7:AG:84:ASN:ND2	7:AG:84:ASN:C	2.68	0.47
1:AA:938:A:O3'	7:AG:95:ARG:NH1	2.47	0.47
8:AH:14:ARG:HG2	8:AH:18:ARG:NH2	2.21	0.47
8:AH:32:LYS:O	8:AH:33:GLU:C	2.53	0.47
8:AH:49:GLU:O	8:AH:49:GLU:HG3	2.14	0.47
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.43	0.47
10:AJ:78:ASN:O	10:AJ:80:LYS:N	2.46	0.47
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.30	0.47
12:AL:6:THR:OG1	12:AL:9:GLN:NE2	2.37	0.47
1:AA:954:G:H4'	13:AM:120:LYS:HD3	1.97	0.47
13:AM:42:ALA:O	13:AM:43:THR:C	2.52	0.47
14:AN:57:ARG:NH1	14:AN:57:ARG:HG2	2.29	0.47
1:AA:279:A:O2'	17:AQ:95:TYR:HE1	1.97	0.47
22:AV:21:A:C6	22:AV:46:G:C5	3.02	0.47
24:AY:168:PRO:HG2	24:AY:171:TRP:CH2	2.48	0.47
24:AY:175:CYS:HA	24:AY:179:PHE:HD1	1.80	0.47
25:B0:4:LYS:HD3	35:BA:2253:G:O6	2.15	0.47
25:B0:69:PHE:HD1	25:B0:69:PHE:N	2.13	0.47
26:B1:5:CYS:O	26:B1:9:GLY:HA2	2.15	0.47
27:B2:25:VAL:HG22	27:B2:60:LEU:HB3	1.96	0.47
30:B5:16:ARG:CG	30:B5:17:ASP:N	2.73	0.47
31:B6:35:GLU:HB2	31:B6:51:GLU:OE1	2.14	0.47
32:B7:1:MET:SD	35:BA:752:A:O3'	2.73	0.47
34:B9:19:ARG:C	34:B9:21:GLY:H	2.18	0.47
35:BA:1260:G:C4	35:BA:1261:C:C5	3.02	0.47
35:BA:1298:C:O4'	35:BA:1302:A:N1	2.47	0.47
35:BA:1380:G:H2'	35:BA:1381:G:C8	2.49	0.47
35:BA:1452:A:HO2'	35:BA:1453:U:H6	1.61	0.47
35:BA:1423:G:H5''	35:BA:1492:G:O2'	2.14	0.47
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.14	0.47
35:BA:1270:C:O2'	35:BA:1648:C:OP2	2.25	0.47
35:BA:1880:C:H2'	35:BA:1881:C:C6	2.50	0.47
35:BA:225:A:O2'	35:BA:226:G:H5'	2.15	0.47
35:BA:2263:C:O2'	35:BA:2264:C:H5'	2.14	0.47
35:BA:2325:G:C4	35:BA:2326:C:C5	3.02	0.47
35:BA:830:G:C4	35:BA:2448:A:C6	3.03	0.47
35:BA:2498:C:O2'	35:BA:2499:C:H5''	2.14	0.47
35:BA:2578:G:H2'	35:BA:2579:C:C6	2.50	0.47
35:BA:354:G:C2	35:BA:355:G:C4	3.02	0.47
35:BA:661:C:H2'	35:BA:662:G:H8	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:766:C:H2'	35:BA:767:U:O4'	2.14	0.47
35:BA:669:G:N1	35:BA:801:G:O6	2.48	0.47
35:BA:671:C:H42	35:BA:809:G:H1	1.61	0.47
35:BA:987:G:H2'	35:BA:988:A:C8	2.49	0.47
35:BA:986:C:H2'	35:BA:987:G:H5'	1.97	0.47
36:BB:16:G:O2'	36:BB:17:C:O5'	2.32	0.47
37:BC:37:PHE:HE1	37:BC:217:THR:OG1	1.97	0.47
38:BD:81:ALA:HA	38:BD:113:VAL:CG1	2.45	0.47
35:BA:1567:A:C5	38:BD:84:TYR:CD2	3.02	0.47
38:BD:80:ALA:HB1	38:BD:96:HIS:HE2	1.80	0.47
40:BF:157:VAL:HG12	40:BF:176:LEU:HB2	1.96	0.47
41:BG:178:PHE:HA	41:BG:179:PRO:HD3	1.56	0.47
42:BH:97:ARG:O	42:BH:104:GLU:HG3	2.15	0.47
42:BH:66:GLY:HA2	42:BH:69:ARG:HB2	1.96	0.47
45:BN:96:GLU:O	45:BN:100:GLU:HG3	2.15	0.47
45:BN:63:THR:HB	45:BN:66:LYS:HZ3	1.75	0.47
46:BO:18:LYS:HB2	46:BO:45:GLU:HB3	1.95	0.47
52:BU:104:GLN:HA	52:BU:107:ALA:HB3	1.97	0.47
54:BW:20:VAL:HG23	54:BW:21:VAL:N	2.29	0.47
56:BY:50:ARG:HD3	56:BY:50:ARG:HA	1.49	0.47
56:BY:46:LYS:HB3	56:BY:62:GLU:CG	2.45	0.47
57:BZ:149:SER:HB2	57:BZ:173:ALA:HB2	1.97	0.47
1:AA:1028:C:O2	1:AA:1034:G:N3	2.48	0.47
1:AA:1035:A:C4	1:AA:1036:G:N7	2.83	0.47
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.80	0.47
1:AA:1202:G:N2	14:AN:42:ILE:HG22	2.29	0.47
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.49	0.47
1:AA:403:C:O2'	1:AA:404:U:H5'	2.15	0.47
1:AA:711:G:O2'	1:AA:712:A:H5'	2.15	0.47
1:AA:809:G:C6	1:AA:810:C:C5	3.03	0.47
3:AC:11:ARG:HH21	3:AC:182:ILE:HD12	1.79	0.47
4:AD:82:ALA:CB	4:AD:92:VAL:HG12	2.45	0.47
5:AE:77:PRO:HG3	5:AE:142:LEU:HD22	1.92	0.47
7:AG:17:VAL:C	7:AG:19:GLY:N	2.66	0.47
12:AL:126:LYS:HE2	12:AL:126:LYS:HB3	1.71	0.47
15:AO:82:ILE:O	15:AO:83:GLU:C	2.53	0.47
16:AP:72:ARG:HG2	16:AP:73:LEU:CG	2.43	0.47
18:AR:68:LYS:O	18:AR:71:LYS:HB2	2.14	0.47
19:AS:11:VAL:HA	19:AS:38:SER:HB3	1.96	0.47
22:AV:11:A:H61	22:AV:24:U:H3	1.62	0.47
24:AY:207:VAL:O	24:AY:207:VAL:CG1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:207:VAL:HG11	24:AY:215:LEU:CA	2.45	0.47
24:AY:246:PHE:CE2	24:AY:247:LEU:CD2	2.96	0.47
24:AY:248:ALA:O	24:AY:249:GLY:O	2.33	0.47
24:AY:284:THR:CG2	24:AY:385:MET:HE1	2.44	0.47
32:B7:5:TRP:CZ3	35:BA:464:U:C4'	2.98	0.47
33:B8:23:VAL:HG13	33:B8:47:LYS:H	1.80	0.47
33:B8:6:THR:HG21	35:BA:243:U:OP1	2.14	0.47
34:B9:11:CYS:SG	34:B9:32:HIS:CE1	3.08	0.47
35:BA:1011:G:O2'	35:BA:1013:C:H6	1.97	0.47
35:BA:1071:G:H1	35:BA:1093:G:H22	1.63	0.47
35:BA:1106:G:H2'	35:BA:1107:G:H5'	1.96	0.47
35:BA:1198:U:H5'	52:BU:9:VAL:CG1	2.45	0.47
35:BA:1288:U:C2	35:BA:1327:C:C2	3.03	0.47
35:BA:1670:C:O5'	35:BA:1670:C:C6	2.67	0.47
30:B5:8:LYS:HB2	35:BA:2054:A:N1	2.30	0.47
35:BA:2189:U:H2'	35:BA:2190:G:C4'	2.44	0.47
35:BA:2257:U:HO2'	35:BA:2258:C:H5'	1.79	0.47
35:BA:2051:A:H2'	35:BA:2578:G:OP1	2.14	0.47
35:BA:2598:A:C8	35:BA:2599:G:C1'	2.98	0.47
35:BA:2693:A:C2	35:BA:2717:G:C2	3.02	0.47
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	2.15	0.47
35:BA:2815:C:H2'	35:BA:2816:C:O4'	2.14	0.47
35:BA:382:G:H2'	35:BA:383:U:O4'	2.15	0.47
35:BA:41:C:H2'	35:BA:42:G:H8	1.80	0.47
35:BA:637:A:H4'	35:BA:638:G:O5'	2.14	0.47
35:BA:654(M):C:H2'	35:BA:654(N):G:N7	2.29	0.47
35:BA:654(T):C:O2'	35:BA:654(U):A:H5'	2.15	0.47
35:BA:662:G:H5''	47:BP:18:ARG:O	2.15	0.47
35:BA:717:G:N2	35:BA:718:A:H1'	2.29	0.47
35:BA:873:G:O5'	35:BA:873:G:H8	1.98	0.47
35:BA:886:C:O2'	35:BA:887:A:P	2.71	0.47
35:BA:887:A:O2'	35:BA:888:C:H5''	2.13	0.47
35:BA:918:A:C2	35:BA:919:G:H1'	2.49	0.47
36:BB:118:G:C2	36:BB:119:G:N7	2.83	0.47
36:BB:96:U:H2'	36:BB:97:G:H8	1.80	0.47
38:BD:183:ARG:CG	38:BD:270:ILE:CG2	2.91	0.47
39:BE:98:PRO:CD	39:BE:175:VAL:HG12	2.43	0.47
40:BF:185:ASP:CA	40:BF:188:ARG:HG2	2.43	0.47
41:BG:157:ILE:HG22	41:BG:159:VAL:HG12	1.96	0.47
41:BG:84:LYS:O	41:BG:85:GLY:O	2.32	0.47
42:BH:54:ARG:HD2	42:BH:54:ARG:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:120:LEU:HD13	45:BN:121:LYS:N	2.30	0.47
45:BN:97:ARG:O	45:BN:100:GLU:N	2.48	0.47
46:BO:104:ARG:CZ	46:BO:104:ARG:HB3	2.45	0.47
46:BO:98:VAL:O	46:BO:98:VAL:HG22	2.12	0.47
40:BF:31:HIS:CG	47:BP:13:ASN:OD1	2.67	0.47
48:BQ:44:ALA:O	48:BQ:47:ILE:N	2.48	0.47
49:BR:21:TYR:O	49:BR:25:ALA:CB	2.61	0.47
51:BT:107:ASP:O	51:BT:110:ILE:HB	2.15	0.47
35:BA:2847:U:OP1	51:BT:98:LYS:HD3	2.15	0.47
35:BA:751:A:O4'	54:BW:90:ARG:HA	2.15	0.47
57:BZ:63:ASP:CB	57:BZ:65:GLN:NE2	2.78	0.47
1:AA:1001(A):G:H2'	1:AA:1002:G:C8	2.49	0.47
1:AA:1018:C:H2'	1:AA:1019:C:C6	2.50	0.47
1:AA:1348:U:C5	1:AA:1373:G:N2	2.83	0.47
1:AA:39:G:O2'	1:AA:40:C:H5'	2.15	0.47
1:AA:448:A:O2'	1:AA:449:C:H5'	2.15	0.47
1:AA:70:G:O2'	1:AA:71:C:H5'	2.15	0.47
1:AA:740:U:C4'	15:AO:42:HIS:ND1	2.78	0.47
1:AA:897:C:C4	1:AA:898:G:N7	2.83	0.47
2:AB:127:ILE:HG23	2:AB:135:GLN:OE1	2.14	0.47
3:AC:121:ALA:CB	3:AC:187:ALA:HB1	2.44	0.47
1:AA:543:C:OP2	4:AD:10:ARG:NH1	2.48	0.47
4:AD:65:ARG:HB2	4:AD:75:PHE:CG	2.50	0.47
5:AE:142:LEU:HD23	5:AE:142:LEU:HA	1.77	0.47
5:AE:24:ARG:CZ	5:AE:24:ARG:HB3	2.45	0.47
6:AF:2:ARG:HD3	6:AF:92:LYS:HE2	1.96	0.47
9:AI:114:TYR:CZ	10:AJ:59:SER:HA	2.50	0.47
12:AL:75:HIS:CG	12:AL:76:ASN:H	2.32	0.47
13:AM:28:ALA:O	13:AM:29:ARG:C	2.53	0.47
14:AN:59:ALA:O	14:AN:60:SER:HB3	2.14	0.47
15:AO:39:LEU:O	15:AO:43:LEU:HB2	2.14	0.47
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.34	0.47
24:AY:26:LYS:CD	24:AY:89:THR:O	2.62	0.47
24:AY:305:ALA:HA	24:AY:422:GLU:CB	2.44	0.47
24:AY:513:LEU:CD1	24:AY:517:ARG:HH21	2.22	0.47
25:B0:69:PHE:CD1	25:B0:69:PHE:N	2.83	0.47
28:B3:41:PRO:HA	28:B3:44:ARG:HB3	1.96	0.47
29:B4:9:LEU:HD22	29:B4:26:SER:O	2.15	0.47
31:B6:17:LYS:O	31:B6:18:ARG:HB3	2.14	0.47
31:B6:40:CYS:HA	31:B6:41:PRO:HD3	1.57	0.47
35:BA:104:U:C2'	35:BA:105:C:H5'	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1909:C:N4	35:BA:1922:G:N1	2.62	0.47
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.30	0.47
31:B6:25:LYS:NZ	35:BA:2285:C:N4	2.63	0.47
35:BA:2305:A:H2'	35:BA:2306:C:O5'	2.14	0.47
35:BA:2309:A:C2'	35:BA:2310:A:H5''	2.44	0.47
35:BA:2594:C:C2	35:BA:2595:G:C8	3.03	0.47
30:B5:7:PRO:HA	35:BA:2615:U:C5	2.50	0.47
35:BA:2752:C:H5'	35:BA:2753:A:OP2	2.15	0.47
35:BA:605:C:C2'	35:BA:606:U:H5'	2.45	0.47
37:BC:39:GLU:CG	37:BC:217:THR:OG1	2.63	0.47
38:BD:34:VAL:HG11	38:BD:102:LYS:O	2.15	0.47
38:BD:143:HIS:O	38:BD:192:THR:CG2	2.62	0.47
35:BA:2052:G:H1'	39:BE:149:ARG:O	2.15	0.47
39:BE:195:LEU:HD12	39:BE:196:VAL:H	1.79	0.47
39:BE:37:ARG:NH1	39:BE:42:ASP:OD1	2.47	0.47
41:BG:46:ALA:C	41:BG:47:LYS:CD	2.77	0.47
45:BN:120:LEU:CD1	45:BN:120:LEU:C	2.83	0.47
46:BO:59:LYS:O	46:BO:87:ILE:O	2.32	0.47
47:BP:16:ARG:CB	47:BP:16:ARG:HH11	2.26	0.47
47:BP:66:GLY:O	47:BP:67:MET:CB	2.61	0.47
47:BP:75:ILE:H	47:BP:75:ILE:HD12	1.79	0.47
48:BQ:50:ALA:O	48:BQ:51:ARG:C	2.53	0.47
48:BQ:70:PRO:O	48:BQ:71:ASP:HB3	2.15	0.47
48:BQ:72:LYS:O	48:BQ:93:TYR:HD1	1.98	0.47
51:BT:132:LYS:C	51:BT:134:GLU:N	2.66	0.47
53:BV:43:GLU:O	53:BV:44:LYS:CB	2.62	0.47
57:BZ:141:VAL:C	57:BZ:143:GLY:H	2.19	0.47
1:AA:1232:U:O5'	1:AA:1232:U:H6	1.98	0.47
1:AA:1326:C:O2'	1:AA:1327:C:O5'	2.33	0.47
1:AA:1379:G:N2	1:AA:1380:U:C2	2.82	0.47
1:AA:1413:A:C2	1:AA:1414:U:N1	2.83	0.47
1:AA:942:G:H2'	1:AA:942:G:N3	2.29	0.47
1:AA:961:U:OP2	1:AA:1223:C:C1'	2.63	0.47
2:AB:115:LEU:HB2	2:AB:145:LEU:HD11	1.94	0.47
2:AB:84:GLU:OE1	2:AB:219:VAL:HG21	2.14	0.47
2:AB:58:ILE:HG22	2:AB:222:ILE:HD12	1.96	0.47
3:AC:106:VAL:O	3:AC:107:GLN:C	2.53	0.47
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.14	0.47
4:AD:60:GLU:CG	4:AD:202:LEU:HD12	2.39	0.47
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.36	0.47
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:98:LEU:O	11:AK:99:GLN:C	2.53	0.47
12:AL:36:VAL:N	12:AL:58:VAL:HG13	2.30	0.47
14:AN:26:ARG:NH1	14:AN:47:LEU:CD2	2.78	0.47
15:AO:80:ALA:O	15:AO:83:GLU:HB2	2.15	0.47
16:AP:4:ILE:HD11	16:AP:64:ALA:HB1	1.96	0.47
1:AA:247:G:OP2	17:AQ:99:SER:CB	2.63	0.47
33:B8:59:LYS:HE3	33:B8:59:LYS:HB2	1.71	0.47
35:BA:1164:G:N2	35:BA:1165:U:H1'	2.30	0.47
35:BA:1330:C:O2	35:BA:1330:C:H2'	2.15	0.47
35:BA:1447:G:C4'	35:BA:1545:A:H4'	2.44	0.47
35:BA:1707:G:H2'	35:BA:1708:C:O4'	2.15	0.47
35:BA:176:G:C6	35:BA:177:G:C6	3.03	0.47
35:BA:1896:G:C6	35:BA:1897:G:N7	2.83	0.47
35:BA:19:C:OP1	52:BU:22:LYS:HD2	2.15	0.47
35:BA:2110:G:N2	35:BA:2178:C:H5	2.12	0.47
25:B0:36:ILE:CD1	35:BA:2355:C:O4'	2.61	0.47
35:BA:2260:C:O2'	35:BA:2388:A:O2'	2.32	0.47
35:BA:251:A:H2'	35:BA:252:G:H5'	1.96	0.47
35:BA:2508:G:C2	35:BA:2582:G:C6	3.03	0.47
35:BA:259:G:H1'	35:BA:621:A:O2'	2.15	0.47
35:BA:2605:U:C2	35:BA:2606:C:C5	3.02	0.47
35:BA:2867:G:C8	51:BT:23:ARG:NH1	2.83	0.47
35:BA:447:A:H4'	35:BA:449:A:N7	2.29	0.47
36:BB:24:G:H2'	36:BB:56:G:O6	2.15	0.47
37:BC:110:PHE:O	37:BC:111:ASP:CG	2.52	0.47
37:BC:142:ALA:HB1	37:BC:162:GLU:OE2	2.15	0.47
37:BC:51:PRO:HG2	37:BC:52:ARG:H	1.79	0.47
38:BD:138:VAL:HG23	38:BD:168:ARG:CZ	2.45	0.47
40:BF:125:LEU:HA	40:BF:194:MET:O	2.15	0.47
35:BA:1255:U:C5	40:BF:73:ALA:HA	2.50	0.47
40:BF:7:TYR:CE2	40:BF:10:PRO:HD3	2.50	0.47
35:BA:1256:G:O2'	40:BF:82:ILE:HD11	2.15	0.47
35:BA:1257:C:H1'	40:BF:83:PHE:HA	1.97	0.47
41:BG:138:GLN:HG3	41:BG:139:LEU:N	2.29	0.47
42:BH:106:THR:CG2	42:BH:112:PRO:CA	2.63	0.47
42:BH:44:VAL:CG1	42:BH:45:VAL:N	2.78	0.47
43:BJ:25:UNK:O	43:BJ:84:UNK:HA	2.15	0.47
46:BO:62:VAL:HA	46:BO:84:ALA:CB	2.43	0.47
47:BP:79:ARG:O	47:BP:111:ARG:HB2	2.15	0.47
35:BA:636:G:N7	47:BP:113:LYS:NZ	2.61	0.47
47:BP:77:ARG:HG2	47:BP:77:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:27:VAL:HG21	48:BQ:134:ARG:CG	2.41	0.47
50:BS:27:SER:C	50:BS:28:VAL:CG2	2.83	0.47
50:BS:34:HIS:HB2	50:BS:36:TYR:CE1	2.47	0.47
51:BT:125:ARG:C	51:BT:128:GLU:HG3	2.34	0.47
51:BT:50:ILE:CG2	51:BT:99:LEU:O	2.54	0.47
54:BW:5:ALA:HB1	54:BW:50:VAL:HG22	1.96	0.47
56:BY:30:VAL:CG1	56:BY:32:PRO:HB3	2.45	0.47
56:BY:45:VAL:CG1	56:BY:60:PHE:CD2	2.98	0.47
57:BZ:127:LYS:HD2	57:BZ:162:GLU:OE2	2.15	0.47
48:BQ:141:GLN:NE2	57:BZ:72:ARG:O	2.49	0.47
1:AA:1351:U:N3	1:AA:1352:C:C5	2.84	0.46
1:AA:1370:G:C2	1:AA:1371:G:N7	2.82	0.46
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.16	0.46
1:AA:346:G:N2	1:AA:347:G:C5	2.83	0.46
1:AA:395:C:O2'	1:AA:396:G:H5'	2.15	0.46
1:AA:408:A:C2	1:AA:435:C:N3	2.83	0.46
1:AA:599:C:H5''	8:AH:96:GLY:HA2	1.96	0.46
1:AA:589:C:C1'	1:AA:653:A:N6	2.77	0.46
1:AA:653:A:OP1	8:AH:56:LYS:NZ	2.33	0.46
1:AA:962:C:O2'	1:AA:963:G:H5'	2.15	0.46
2:AB:107:THR:O	2:AB:110:GLN:N	2.39	0.46
2:AB:156:LYS:O	2:AB:157:ARG:HB2	2.15	0.46
2:AB:70:PHE:N	2:AB:70:PHE:HD1	2.13	0.46
5:AE:63:ARG:O	5:AE:64:ARG:CB	2.63	0.46
5:AE:72:GLN:OE1	5:AE:77:PRO:HA	2.15	0.46
6:AF:37:VAL:O	6:AF:37:VAL:HG12	2.16	0.46
8:AH:35:ILE:O	8:AH:38:ILE:N	2.46	0.46
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.95	0.46
11:AK:123:LYS:CG	11:AK:123:LYS:O	2.63	0.46
12:AL:109:GLY:HA2	12:AL:121:GLY:HA3	1.94	0.46
13:AM:56:LEU:C	13:AM:60:VAL:HG23	2.35	0.46
14:AN:13:THR:O	14:AN:14:PRO:O	2.33	0.46
1:AA:1060:C:P	14:AN:45:ARG:NH2	2.87	0.46
15:AO:61:GLY:O	15:AO:62:GLN:C	2.53	0.46
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.29	0.46
20:AT:8:ARG:HG3	20:AT:8:ARG:HH11	1.80	0.46
22:AV:28:C:H42	22:AV:42:G:H1	1.63	0.46
22:AV:76:A:H1'	35:BA:2395:C:N3	2.30	0.46
24:AY:169:ILE:C	24:AY:170:THR:CG2	2.84	0.46
24:AY:287:ARG:NH2	24:AY:289:VAL:HG13	2.29	0.46
24:AY:418:GLN:HA	24:AY:421:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:425:VAL:HG13	24:AY:445:GLN:HB2	1.97	0.46
24:AY:474:VAL:HG13	24:AY:521:VAL:HG13	1.97	0.46
24:AY:76:GLN:OE1	24:AY:349:MET:CA	2.63	0.46
26:B1:15:ALA:CB	26:B1:42:GLN:HG3	2.45	0.46
26:B1:94:LEU:CD1	26:B1:94:LEU:H	2.28	0.46
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.97	0.46
27:B2:21:LEU:O	27:B2:24:LEU:CB	2.63	0.46
30:B5:16:ARG:HD2	30:B5:20:ARG:CZ	2.44	0.46
31:B6:5:VAL:N	31:B6:8:LYS:HB3	2.31	0.46
33:B8:52:LYS:O	33:B8:54:GLU:N	2.48	0.46
33:B8:61:LEU:HD12	33:B8:62:LEU:H	1.78	0.46
35:BA:1006:C:H2'	35:BA:1007:C:H6	1.80	0.46
35:BA:107:C:H2'	35:BA:108:U:H6	1.80	0.46
35:BA:1141:U:H5	45:BN:66:LYS:HZ1	1.62	0.46
35:BA:1256:G:H2'	35:BA:1257:C:H6	1.77	0.46
35:BA:1298:C:H2'	35:BA:1299:G:O4'	2.15	0.46
35:BA:1423:G:OP1	35:BA:1492:G:O2'	2.22	0.46
35:BA:1470:G:O3'	35:BA:1471:A:H8	1.98	0.46
35:BA:1829:A:H3'	35:BA:1830:C:C6	2.50	0.46
35:BA:1916:A:O2'	35:BA:1917:U:H5'	2.15	0.46
35:BA:2070:G:H2'	35:BA:2071:A:O4'	2.16	0.46
35:BA:2086:U:C2'	35:BA:2087:G:H8	2.10	0.46
35:BA:2127:G:C2	35:BA:2128:C:C4	3.03	0.46
35:BA:2206:G:H5''	35:BA:2206:G:N3	2.31	0.46
35:BA:2406:U:H3	47:BP:72:PRO:HB2	1.79	0.46
35:BA:2584:U:C2'	35:BA:2585:U:H5'	2.45	0.46
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.68	0.46
35:BA:2727:G:N2	35:BA:2728:U:O2	2.48	0.46
35:BA:27:G:N2	35:BA:512:G:C2'	2.73	0.46
35:BA:2822:G:H2'	35:BA:2823:A:C5'	2.42	0.46
35:BA:2838:G:N2	35:BA:2881:C:C2	2.83	0.46
35:BA:296:C:N4	35:BA:342:G:H1	2.13	0.46
35:BA:35:G:O2'	35:BA:36:G:H5'	2.15	0.46
35:BA:565:C:O2	35:BA:565:C:H2'	2.14	0.46
32:B7:11:LYS:HG2	35:BA:686:G:C4	2.50	0.46
35:BA:704:G:N2	35:BA:726:G:C4	2.83	0.46
35:BA:942:G:O2'	35:BA:943:U:H5'	2.15	0.46
35:BA:953:A:C2	35:BA:965:C:O2	2.68	0.46
35:BA:974:G:O5'	35:BA:1186:G:N2	2.48	0.46
36:BB:52:A:H2'	36:BB:53:A:OP2	2.15	0.46
38:BD:154:LYS:C	38:BD:155:LEU:HD12	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:24:ILE:HA	38:BD:82:ILE:CB	2.37	0.46
38:BD:183:ARG:HG3	38:BD:270:ILE:CA	2.45	0.46
38:BD:66:ASP:CG	38:BD:103:ARG:CZ	2.83	0.46
39:BE:200:GLU:N	39:BE:200:GLU:CD	2.68	0.46
40:BF:114:VAL:HG21	40:BF:202:PHE:CZ	2.50	0.46
40:BF:59:TYR:CD2	40:BF:78:ILE:HG13	2.50	0.46
42:BH:18:GLU:CB	42:BH:25:LYS:O	2.64	0.46
42:BH:27:LYS:HG2	42:BH:32:GLU:OE1	2.15	0.46
44:BK:115:UNK:O	44:BK:116:UNK:CB	2.62	0.46
47:BP:67:MET:C	47:BP:69:GLY:N	2.68	0.46
47:BP:75:ILE:N	47:BP:75:ILE:HD12	2.30	0.46
48:BQ:44:ALA:O	48:BQ:47:ILE:HB	2.15	0.46
49:BR:3:HIS:O	49:BR:5:LYS:N	2.48	0.46
49:BR:96:ARG:HH22	49:BR:117:VAL:HG23	1.80	0.46
50:BS:49:VAL:HG11	50:BS:73:LEU:CD2	2.45	0.46
51:BT:106:SER:O	51:BT:107:ASP:CB	2.61	0.46
51:BT:32:TYR:HB3	51:BT:81:PRO:HB2	1.95	0.46
52:BU:55:ARG:O	52:BU:59:ARG:HD2	2.16	0.46
52:BU:76:TYR:CD1	52:BU:77:SER:N	2.83	0.46
54:BW:6:ILE:HG12	54:BW:104:THR:CB	2.44	0.46
56:BY:27:VAL:HG12	56:BY:28:LYS:H	1.80	0.46
57:BZ:147:GLY:C	57:BZ:148:ASP:O	2.54	0.46
57:BZ:10:ARG:HG2	57:BZ:36:LYS:HD3	1.97	0.46
57:BZ:70:LEU:HD21	57:BZ:91:LEU:HD21	1.96	0.46
1:AA:1055:A:H8	1:AA:1055:A:O5'	1.98	0.46
1:AA:1282:C:H2'	1:AA:1283:G:C5'	2.45	0.46
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.30	0.46
1:AA:1353:G:N3	1:AA:1354:C:C5	2.83	0.46
1:AA:135:C:C2'	1:AA:136:C:H5'	2.45	0.46
1:AA:321:A:O3'	1:AA:1436:U:H4'	2.15	0.46
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.46
1:AA:24:U:H5	1:AA:559:A:H61	1.62	0.46
1:AA:58:C:H2'	1:AA:59:A:H8	1.80	0.46
1:AA:644:G:O2'	1:AA:645:C:H5'	2.15	0.46
1:AA:711:G:H4'	38:BD:138:VAL:HG12	1.97	0.46
1:AA:774:G:C2	1:AA:775:G:N9	2.83	0.46
1:AA:941:G:H1	1:AA:1342:C:H42	1.63	0.46
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.15	0.46
2:AB:8:LYS:CE	2:AB:217:ARG:NH2	2.77	0.46
2:AB:223:ILE:O	2:AB:224:GLN:C	2.53	0.46
4:AD:133:VAL:HG12	4:AD:135:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:29:ALA:O	6:AF:30:LEU:C	2.53	0.46
8:AH:119:LEU:HD23	8:AH:123:GLU:OE1	2.14	0.46
8:AH:14:ARG:HG3	8:AH:83:ILE:HG22	1.96	0.46
15:AO:12:ILE:HG13	15:AO:31:LEU:HD13	1.97	0.46
15:AO:82:ILE:HG22	15:AO:83:GLU:N	2.30	0.46
17:AQ:77:VAL:O	17:AQ:78:GLU:HB3	2.15	0.46
20:AT:50:GLU:O	20:AT:52:ALA:N	2.48	0.46
20:AT:73:HIS:C	20:AT:74:LYS:HD3	2.36	0.46
23:AX:16:A:H2'	23:AX:17:U:O4'	2.14	0.46
24:AY:123:THR:CA	24:AY:126:LEU:HD12	2.44	0.46
24:AY:145:ASP:OD1	24:AY:145:ASP:N	2.47	0.46
24:AY:20:SER:C	24:AY:126:LEU:HD11	2.35	0.46
24:AY:232:GLU:O	24:AY:235:LYS:HB2	2.15	0.46
24:AY:32:LYS:HZ2	24:AY:260:LEU:HD12	1.81	0.46
24:AY:347:THR:HA	24:AY:365:LEU:HA	1.98	0.46
24:AY:377:ASP:OD2	24:AY:378:THR:O	2.32	0.46
25:B0:17:GLN:O	25:B0:18:ALA:C	2.54	0.46
26:B1:27:GLU:CG	26:B1:28:GLY:N	2.76	0.46
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.29	0.46
31:B6:28:ARG:O	31:B6:29:ASN:O	2.32	0.46
31:B6:54:ILE:HD11	35:BA:2397:G:H22	1.81	0.46
32:B7:1:MET:HB2	32:B7:1:MET:HE2	1.82	0.46
32:B7:34:ARG:HD2	32:B7:39:ARG:HG3	1.96	0.46
35:BA:1069:A:N6	35:BA:1073:A:N1	2.63	0.46
35:BA:1366:A:C6	35:BA:1367:A:C5	3.04	0.46
35:BA:1619:G:O5'	35:BA:1619:G:H8	1.98	0.46
35:BA:1688:U:O2	35:BA:1701:A:N7	2.49	0.46
35:BA:1778:U:C4	35:BA:1784:A:C4	3.03	0.46
35:BA:1799:G:OP1	38:BD:260:ARG:CD	2.63	0.46
35:BA:1823:G:C5	35:BA:1824:G:N7	2.84	0.46
35:BA:1912:A:OP1	35:BA:1912:A:H4'	2.15	0.46
35:BA:199:A:N3	35:BA:2433:A:C2	2.83	0.46
35:BA:2171:A:O2'	35:BA:2172:U:C5	2.66	0.46
35:BA:2097:C:H1'	35:BA:2193:G:H22	1.80	0.46
35:BA:2308:G:C2'	35:BA:2309:A:C8	2.98	0.46
35:BA:2303:G:N2	35:BA:2313:C:N3	2.54	0.46
35:BA:2332:U:H4'	35:BA:2336:A:H62	1.79	0.46
35:BA:2645:G:C3'	35:BA:2646:C:C5'	2.87	0.46
35:BA:278:A:O5'	35:BA:278:A:H8	1.98	0.46
35:BA:2793:G:O2'	35:BA:2794:C:C5'	2.64	0.46
35:BA:860:U:O4'	35:BA:860:U:O2	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:861:A:C2	35:BA:862:G:N9	2.84	0.46
35:BA:872:A:H2'	35:BA:873:G:H8	1.79	0.46
37:BC:4:GLY:O	37:BC:7:TYR:HB3	2.14	0.46
38:BD:177:LEU:HB2	38:BD:179:SER:OG	2.15	0.46
38:BD:248:SER:HB2	38:BD:249:PRO:CD	2.46	0.46
39:BE:57:LYS:O	39:BE:58:ARG:HG3	2.15	0.46
41:BG:42:GLY:C	41:BG:43:LEU:HD22	2.35	0.46
41:BG:74:LYS:O	41:BG:75:LYS:O	2.34	0.46
45:BN:54:VAL:HG12	45:BN:55:VAL:N	2.30	0.46
45:BN:66:LYS:O	45:BN:87:LEU:CB	2.62	0.46
47:BP:98:GLU:H	47:BP:101:VAL:HG13	1.80	0.46
47:BP:95:VAL:HG23	47:BP:125:VAL:HA	1.96	0.46
47:BP:58:THR:O	47:BP:61:ARG:HG3	2.14	0.46
48:BQ:110:THR:O	48:BQ:111:GLU:C	2.53	0.46
48:BQ:14:ARG:HA	48:BQ:72:LYS:CE	2.45	0.46
49:BR:82:GLU:O	49:BR:85:PRO:HD2	2.15	0.46
50:BS:93:LYS:O	50:BS:95:HIS:N	2.48	0.46
51:BT:5:ALA:O	51:BT:8:LYS:N	2.48	0.46
57:BZ:111:VAL:C	57:BZ:113:ALA:O	2.54	0.46
48:BQ:141:GLN:CG	57:BZ:72:ARG:NH1	2.78	0.46
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.97	0.46
1:AA:1075:C:O2'	1:AA:1076:C:H5'	2.15	0.46
1:AA:1250:A:H2	1:AA:1370:G:H1'	1.80	0.46
1:AA:1338:G:C6	1:AA:1339:A:N6	2.83	0.46
1:AA:1500:A:OP2	1:AA:1505:G:P	2.73	0.46
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.78	0.46
1:AA:189:G:C6	1:AA:189(A):C:C4	3.04	0.46
1:AA:250:A:H2	1:AA:274:A:N6	2.14	0.46
1:AA:322:C:O2'	1:AA:323:U:H5'	2.16	0.46
1:AA:446:G:C2'	1:AA:447:G:H5'	2.45	0.46
1:AA:575:G:N2	1:AA:576:G:N7	2.62	0.46
1:AA:619:U:N3	4:AD:135:LEU:HD11	2.29	0.46
1:AA:662:G:C6	1:AA:744:C:N3	2.83	0.46
1:AA:692:U:O2'	1:AA:694:A:N7	2.38	0.46
1:AA:774:G:H21	1:AA:775:G:H1'	1.79	0.46
1:AA:929:G:N2	1:AA:930:C:C2	2.83	0.46
2:AB:213:LEU:HD22	2:AB:214:ILE:HD13	1.96	0.46
2:AB:87:ARG:NH1	2:AB:220:ASP:OD1	2.48	0.46
3:AC:14:ILE:O	3:AC:15:THR:HB	2.14	0.46
3:AC:187:ALA:HB3	3:AC:198:VAL:HB	1.97	0.46
4:AD:192:GLU:O	4:AD:193:ASP:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:64:LEU:HB2	4:AD:198:VAL:HG21	1.98	0.46
7:AG:87:VAL:HG22	7:AG:154:TYR:HB2	1.97	0.46
9:AI:111:ARG:O	9:AI:113:LYS:HG3	2.15	0.46
10:AJ:25:GLU:O	10:AJ:29:ARG:NH2	2.49	0.46
1:AA:1124:G:C5'	10:AJ:35:SER:HB2	2.45	0.46
1:AA:954:G:H4'	13:AM:120:LYS:HD2	1.96	0.46
1:AA:658:G:C1'	15:AO:22:THR:HB	2.46	0.46
15:AO:80:ALA:O	15:AO:81:LEU:C	2.53	0.46
17:AQ:71:PHE:O	17:AQ:72:ARG:HG2	2.15	0.46
19:AS:20:LEU:C	19:AS:23:ASN:HB3	2.35	0.46
19:AS:34:TRP:CD1	19:AS:52:TYR:CD2	3.03	0.46
19:AS:41:VAL:CG2	19:AS:44:MET:HG2	2.45	0.46
20:AT:14:LYS:C	20:AT:16:HIS:N	2.68	0.46
20:AT:38:LYS:HA	20:AT:41:ILE:CG1	2.46	0.46
21:AU:18:TYR:N	21:AU:18:TYR:HD1	2.13	0.46
22:AV:49:G:H21	22:AV:50:U:C1'	2.26	0.46
22:AV:47:U:C6	22:AV:50:U:OP1	2.68	0.46
22:AV:69:C:C2	22:AV:70:G:C8	3.03	0.46
24:AY:282:ARG:CG	24:AY:319:ARG:CZ	2.94	0.46
24:AY:303:ILE:HA	24:AY:315:VAL:O	2.16	0.46
24:AY:386:LYS:HE3	24:AY:388:THR:CA	2.45	0.46
24:AY:72:THR:CB	24:AY:89:THR:HA	2.45	0.46
19:AS:43:GLU:CG	29:B4:47:GLN:NE2	2.77	0.46
30:B5:12:SER:O	30:B5:15:ARG:N	2.49	0.46
35:BA:1115:G:C5	35:BA:1116:C:C5	3.04	0.46
35:BA:1120:G:O2'	35:BA:1121:C:H5'	2.15	0.46
35:BA:1254:A:C8	35:BA:1256:G:C8	3.03	0.46
35:BA:149:A:O5'	35:BA:149:A:H8	1.97	0.46
35:BA:1576:U:O2'	35:BA:1577:C:H5'	2.15	0.46
35:BA:1718:G:H2'	35:BA:1719:G:H8	1.80	0.46
35:BA:2048:G:C6	35:BA:2049:G:C5	3.04	0.46
35:BA:2156:G:OP2	35:BA:2156:G:C8	2.68	0.46
35:BA:2373:G:C6	35:BA:2374:C:N4	2.83	0.46
35:BA:257:A:O2'	35:BA:258:G:H5'	2.16	0.46
35:BA:2049:G:N2	35:BA:2620:C:C2	2.82	0.46
35:BA:629:G:H4'	35:BA:650:C:O2	2.15	0.46
35:BA:654(L):G:C2'	35:BA:654(M):C:H4'	2.45	0.46
35:BA:743:G:N2	35:BA:755:C:C2	2.83	0.46
35:BA:934:G:C6	35:BA:935:C:C4	3.03	0.46
35:BA:977:G:O6	35:BA:987:G:C6	2.69	0.46
36:BB:12:C:H4'	36:BB:13:A:OP1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:42:C:HO2'	36:BB:43:C:H6	1.59	0.46
37:BC:65:PRO:CG	37:BC:187:ASP:O	2.64	0.46
35:BA:1819:A:C5'	38:BD:158:ALA:HB2	2.39	0.46
38:BD:80:ALA:N	38:BD:94:LEU:O	2.46	0.46
39:BE:108:SER:O	39:BE:109:LYS:C	2.53	0.46
39:BE:33:VAL:HG13	39:BE:69:LYS:CD	2.45	0.46
41:BG:180:PHE:C	41:BG:182:LYS:H	2.19	0.46
41:BG:67:LYS:HD3	41:BG:67:LYS:N	2.29	0.46
41:BG:92:VAL:CG1	41:BG:92:VAL:O	2.64	0.46
35:BA:1141:U:P	45:BN:63:THR:HG23	2.54	0.46
46:BO:105:GLU:OE1	46:BO:105:GLU:N	2.47	0.46
35:BA:662:G:P	47:BP:18:ARG:HD2	2.55	0.46
35:BA:826:U:H1'	47:BP:53:GLY:O	2.15	0.46
47:BP:98:GLU:C	47:BP:101:VAL:HG22	2.35	0.46
50:BS:30:ARG:HH22	50:BS:62:LYS:CG	2.28	0.46
50:BS:54:LEU:O	50:BS:57:LYS:N	2.49	0.46
50:BS:78:LEU:HD21	50:BS:83:LYS:HA	1.96	0.46
52:BU:82:GLY:O	52:BU:85:LYS:N	2.47	0.46
53:BV:33:VAL:O	53:BV:58:VAL:CG1	2.63	0.46
54:BW:28:SER:HA	54:BW:70:TYR:HA	1.97	0.46
35:BA:2010:G:C5'	54:BW:42:ARG:HB2	2.46	0.46
55:BX:26:TYR:HH	55:BX:93:GLU:CD	2.19	0.46
55:BX:4:ALA:O	55:BX:6:ASP:N	2.48	0.46
56:BY:6:HIS:N	56:BY:6:HIS:CD2	2.83	0.46
56:BY:75:ILE:O	56:BY:76:CYS:SG	2.74	0.46
56:BY:84:ARG:HG2	56:BY:85:VAL:N	2.26	0.46
57:BZ:145:GLU:HG3	57:BZ:146:ILE:H	1.81	0.46
57:BZ:53:ILE:HG13	57:BZ:54:HIS:CD2	2.51	0.46
1:AA:19:C:H2'	1:AA:20:U:H6	1.80	0.46
1:AA:269:C:H2'	1:AA:270:A:C8	2.49	0.46
1:AA:28:G:O2'	1:AA:296:U:OP1	2.34	0.46
1:AA:757:U:O2'	1:AA:758:G:H5'	2.15	0.46
1:AA:817:C:N4	1:AA:819:A:C4	2.83	0.46
1:AA:941:G:O5'	1:AA:941:G:H8	1.99	0.46
2:AB:16:HIS:HB3	2:AB:210:SER:CB	2.46	0.46
2:AB:31:TYR:CD1	2:AB:31:TYR:N	2.81	0.46
6:AF:50:TYR:CD1	6:AF:50:TYR:O	2.68	0.46
6:AF:50:TYR:CE1	6:AF:52:ILE:HG13	2.49	0.46
8:AH:87:SER:HG	8:AH:92:ARG:HA	1.77	0.46
9:AI:15:ALA:O	9:AI:17:VAL:HG23	2.15	0.46
9:AI:22:GLY:O	9:AI:59:PHE:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:81:LEU:C	13:AM:93:ARG:NH1	2.69	0.46
14:AN:22:THR:CB	14:AN:33:VAL:HG21	2.46	0.46
15:AO:5:LYS:HA	15:AO:8:LYS:HB2	1.97	0.46
17:AQ:67:LYS:HA	17:AQ:70:ARG:NH1	2.28	0.46
19:AS:62:ILE:HA	19:AS:66:MET:HE1	1.95	0.46
22:AV:15:G:C5'	22:AV:16:C:H5'	2.46	0.46
24:AY:171:TRP:C	24:AY:182:VAL:HG13	2.35	0.46
24:AY:334:VAL:O	24:AY:334:VAL:HG12	2.15	0.46
32:B7:30:VAL:HG22	32:B7:33:ARG:HH21	1.78	0.46
34:B9:19:ARG:HG3	34:B9:20:HIS:ND1	2.30	0.46
35:BA:1024:G:N7	35:BA:1025:G:H2'	2.30	0.46
35:BA:1170:G:H1	35:BA:1179:C:N4	2.13	0.46
35:BA:116:C:C4	35:BA:117:G:C5	3.03	0.46
35:BA:1281:G:H2'	35:BA:1282:U:C6	2.49	0.46
35:BA:1297:C:O2'	35:BA:1298:C:H5'	2.16	0.46
35:BA:1308:A:N6	35:BA:1309:G:C2	2.83	0.46
35:BA:693:C:O2'	35:BA:1353:A:H1'	2.16	0.46
35:BA:1479:G:H2'	35:BA:1480:G:O4'	2.15	0.46
35:BA:1491:G:C5	35:BA:1500:G:N2	2.84	0.46
35:BA:1527:G:O5'	35:BA:1527:G:H8	1.98	0.46
35:BA:1673:U:O2'	35:BA:1674:G:H5'	2.16	0.46
35:BA:2152:G:C5	35:BA:2153:G:C8	3.03	0.46
35:BA:2282:G:OP1	35:BA:2283:C:H1'	2.15	0.46
35:BA:2355:C:O2	35:BA:2355:C:C2'	2.59	0.46
35:BA:2356:C:C5	35:BA:2357:U:C4	3.02	0.46
35:BA:199:A:O2'	35:BA:2433:A:N6	2.48	0.46
35:BA:2498:C:H2'	35:BA:2499:C:C5'	2.46	0.46
35:BA:2529:G:H5''	35:BA:2530:A:H5''	1.98	0.46
35:BA:2781:A:H5'	35:BA:2782:G:H5'	1.97	0.46
35:BA:280:C:H3'	35:BA:281:G:C8	2.51	0.46
35:BA:2821:A:H3'	35:BA:2821:A:OP2	2.16	0.46
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.70	0.46
35:BA:28:A:N6	35:BA:512:G:H1'	2.30	0.46
35:BA:519:U:H2'	35:BA:520:G:C8	2.50	0.46
35:BA:642:G:H8	35:BA:642:G:O5'	1.99	0.46
35:BA:714:U:H2'	35:BA:715:G:H3'	1.97	0.46
35:BA:854:G:H5'	35:BA:855:G:OP2	2.16	0.46
36:BB:45:A:OP2	41:BG:96:ARG:NH2	2.48	0.46
37:BC:68:LEU:HA	37:BC:176:GLY:HA2	1.96	0.46
38:BD:144:ALA:O	38:BD:145:VAL:HG23	2.15	0.46
38:BD:274:ARG:CG	38:BD:274:ARG:NH1	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:180:ASN:O	39:BE:181:LEU:HD12	2.16	0.46
39:BE:9:VAL:HG11	39:BE:25:VAL:CG1	2.45	0.46
39:BE:97:LYS:O	39:BE:100:GLU:HG3	2.15	0.46
40:BF:32:LEU:HD13	40:BF:112:MET:SD	2.56	0.46
41:BG:115:ARG:NH2	41:BG:136:ARG:CD	2.79	0.46
41:BG:138:GLN:NE2	41:BG:149:VAL:HG12	2.30	0.46
41:BG:43:LEU:HB3	41:BG:45:GLU:CG	2.46	0.46
41:BG:77:ILE:HG22	41:BG:80:PHE:O	2.16	0.46
41:BG:40:ASN:HB2	41:BG:90:LEU:O	2.15	0.46
42:BH:139:GLN:HG3	42:BH:140:LYS:N	2.30	0.46
47:BP:30:THR:HG22	47:BP:31:ALA:N	2.18	0.46
47:BP:47:ASP:HB3	47:BP:51:PHE:HB2	1.97	0.46
48:BQ:57:HIS:C	48:BQ:57:HIS:HD1	2.17	0.46
49:BR:26:LYS:HA	49:BR:70:LEU:HD22	1.97	0.46
49:BR:66:VAL:C	49:BR:68:ARG:N	2.65	0.46
49:BR:7:GLY:O	49:BR:8:ARG:CB	2.60	0.46
50:BS:53:SER:OG	50:BS:54:LEU:N	2.47	0.46
50:BS:85:VAL:HG23	50:BS:86:ALA:N	2.30	0.46
51:BT:83:ILE:O	51:BT:84:GLN:O	2.34	0.46
53:BV:59:ALA:CA	53:BV:95:LEU:O	2.64	0.46
57:BZ:122:ARG:CG	57:BZ:122:ARG:NH1	2.75	0.46
57:BZ:3:TYR:CD1	57:BZ:3:TYR:N	2.83	0.46
1:AA:1001(A):G:H2'	1:AA:1002:G:O4'	2.15	0.46
1:AA:110:C:C2	1:AA:111:G:C8	3.03	0.46
1:AA:1242:C:O2'	1:AA:1243:C:C5'	2.62	0.46
1:AA:978:A:C6	1:AA:1318:A:N7	2.83	0.46
1:AA:1497:G:C2'	1:AA:1498:U:C5'	2.92	0.46
1:AA:166:G:C2	1:AA:167:G:C4	3.04	0.46
1:AA:377:G:H5''	16:AP:24:ALA:O	2.15	0.46
1:AA:495:A:O2'	1:AA:496:A:H2'	2.16	0.46
1:AA:686:U:O4	1:AA:703:G:H1'	2.16	0.46
1:AA:712:A:H2'	1:AA:713:G:O4'	2.15	0.46
1:AA:892:A:C2	1:AA:907:A:C2	3.03	0.46
1:AA:945:G:N2	1:AA:1337:G:H21	2.13	0.46
1:AA:995:C:HO2'	1:AA:996:A:P	2.37	0.46
2:AB:127:ILE:C	2:AB:135:GLN:HE22	2.19	0.46
2:AB:204:ASN:ND2	2:AB:205:ASP:N	2.61	0.46
2:AB:30:ARG:C	2:AB:32:ILE:N	2.68	0.46
3:AC:16:ARG:NH2	3:AC:183:ASP:HA	2.30	0.46
4:AD:61:LYS:O	4:AD:61:LYS:HG2	2.16	0.46
5:AE:20:GLN:CG	5:AE:21:ALA:N	2.65	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:12:LEU:HD13	7:AG:25:ALA:HB2	1.98	0.46
8:AH:22:GLU:O	8:AH:63:LEU:CD2	2.63	0.46
8:AH:1:MET:HE1	8:AH:3:THR:CG2	2.45	0.46
8:AH:40:ALA:CA	8:AH:45:ILE:HG13	2.46	0.46
9:AI:49:PRO:C	9:AI:51:ARG:N	2.69	0.46
10:AJ:28:ARG:C	10:AJ:30:SER:N	2.68	0.46
10:AJ:16:LEU:HD23	10:AJ:94:VAL:CG1	2.44	0.46
11:AK:63:LEU:HA	11:AK:66:LEU:CG	2.45	0.46
1:AA:562:C:H1'	12:AL:15:ARG:HD2	1.98	0.46
14:AN:31:ARG:O	14:AN:32:SER:OG	2.33	0.46
24:AY:115:ALA:HB2	24:AY:148:ILE:HB	1.97	0.46
24:AY:171:TRP:O	24:AY:182:VAL:CA	2.62	0.46
24:AY:14:ARG:CD	24:AY:276:ALA:HB1	2.46	0.46
24:AY:393:PHE:HB3	24:AY:394:ALA:H	1.18	0.46
27:B2:29:LYS:NZ	27:B2:57:ILE:HG21	2.29	0.46
29:B4:9:LEU:CD2	29:B4:26:SER:HA	2.44	0.46
35:BA:1051:G:N2	35:BA:1108:U:C5	2.83	0.46
35:BA:1257:C:H4'	40:BF:83:PHE:CE1	2.51	0.46
35:BA:1327:C:N4	35:BA:1328:G:C6	2.84	0.46
35:BA:1388:G:C2'	35:BA:1389:G:H5'	2.46	0.46
35:BA:1416:G:N3	35:BA:1417:C:C4	2.84	0.46
35:BA:1349:A:N6	35:BA:1598:C:N4	2.64	0.46
35:BA:1902:C:H4'	38:BD:246:PRO:HD3	1.97	0.46
35:BA:1993:U:H4'	39:BE:128:SER:HG	1.78	0.46
35:BA:2000:G:N3	35:BA:2001:A:C8	2.83	0.46
35:BA:2111:C:C2	35:BA:2147:G:N2	2.83	0.46
35:BA:2181:G:H2'	35:BA:2182:G:H8	1.81	0.46
35:BA:2249:U:H1'	35:BA:2275:C:N4	2.30	0.46
35:BA:28:A:H1'	35:BA:513:A:C6	2.51	0.46
35:BA:772:C:O2'	35:BA:773:U:H5'	2.15	0.46
35:BA:831:G:O3'	47:BP:40:SER:CB	2.64	0.46
35:BA:906:G:C4'	48:BQ:67:ARG:HH22	2.28	0.46
35:BA:961:C:C4	35:BA:2031:A:N3	2.83	0.46
37:BC:142:ALA:HB1	37:BC:162:GLU:CD	2.36	0.46
37:BC:55:ASP:C	37:BC:56:GLN:HG3	2.35	0.46
38:BD:133:LEU:CD2	38:BD:191:ALA:HB2	2.43	0.46
35:BA:1902:C:H5'	38:BD:246:PRO:CD	2.45	0.46
39:BE:111:ARG:NH1	39:BE:160:TYR:CE2	2.83	0.46
40:BF:154:VAL:HG13	40:BF:191:ARG:CB	2.45	0.46
40:BF:66:PRO:C	40:BF:68:LYS:N	2.69	0.46
42:BH:107:VAL:O	42:BH:107:VAL:CG2	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:145:ALA:CB	42:BH:164:TYR:OH	2.63	0.46
42:BH:68:THR:HG23	42:BH:72:ILE:HB	1.98	0.46
45:BN:26:LEU:O	45:BN:30:ILE:CG1	2.56	0.46
46:BO:14:THR:HG22	46:BO:95:GLY:H	1.79	0.46
47:BP:67:MET:C	47:BP:69:GLY:H	2.19	0.46
52:BU:97:ASP:HA	52:BU:100:VAL:HG23	1.98	0.46
52:BU:65:ILE:CD1	52:BU:96:ALA:CB	2.94	0.46
53:BV:29:PRO:HG2	53:BV:30:GLY:H	1.81	0.46
53:BV:95:LEU:CD1	53:BV:97:LYS:NZ	2.78	0.46
53:BV:60:GLU:HB3	53:BV:95:LEU:HB3	1.96	0.46
35:BA:2009:G:C4'	54:BW:40:ASN:ND2	2.79	0.46
55:BX:18:TYR:C	55:BX:20:GLY:N	2.60	0.46
1:AA:1001:A:N3	1:AA:1001:A:C2'	2.75	0.46
1:AA:1202:G:O4'	14:AN:29:ARG:HD3	2.15	0.46
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.32	0.46
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.50	0.46
1:AA:1360:A:C6	1:AA:1361:G:C6	3.03	0.46
1:AA:1405:G:C1'	1:AA:1519:A:H4'	2.44	0.46
1:AA:1516:G:N3	1:AA:1518:A:OP2	2.48	0.46
1:AA:16:A:H2'	1:AA:17:U:C5'	2.44	0.46
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.15	0.46
1:AA:111:G:O2'	1:AA:389:A:H1'	2.15	0.46
1:AA:450:G:H5''	1:AA:451:A:H3'	1.97	0.46
1:AA:453:A:O2'	1:AA:454:C:H5''	2.15	0.46
1:AA:507:C:C6	1:AA:507:C:OP2	2.69	0.46
1:AA:623:C:H3'	1:AA:624:C:C6	2.51	0.46
1:AA:629:G:H2'	1:AA:630:G:H8	1.79	0.46
1:AA:67:C:O2	1:AA:171:A:C2	2.55	0.46
1:AA:785:G:C2'	1:AA:786:G:H5'	2.46	0.46
1:AA:951:G:C2'	1:AA:952:U:O5'	2.64	0.46
2:AB:157:ARG:CB	2:AB:157:ARG:HH11	2.29	0.46
2:AB:68:ILE:N	2:AB:90:MET:CE	2.66	0.46
3:AC:108:ASN:HB3	3:AC:111:LEU:CB	2.43	0.46
3:AC:83:ARG:C	3:AC:85:ARG:H	2.18	0.46
4:AD:112:VAL:HG12	4:AD:116:GLN:NE2	2.31	0.46
4:AD:57:ARG:NH2	5:AE:107:ARG:NH1	2.63	0.46
4:AD:61:LYS:HA	4:AD:203:VAL:CG2	2.38	0.46
4:AD:98:GLU:O	4:AD:100:ARG:N	2.49	0.46
7:AG:18:TYR:O	7:AG:20:ASP:N	2.45	0.46
9:AI:53:VAL:HG23	9:AI:55:ALA:HB3	1.96	0.46
11:AK:82:VAL:CG2	11:AK:83:ILE:H	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:66:LEU:O	13:AM:67:GLU:C	2.53	0.46
17:AQ:81:ARG:O	17:AQ:83:ASP:N	2.49	0.46
24:AY:438:VAL:O	24:AY:446:PHE:CE2	2.68	0.46
24:AY:425:VAL:HG11	24:AY:445:GLN:HG3	1.94	0.46
24:AY:457:TYR:HB3	24:AY:459:VAL:HG22	1.98	0.46
25:B0:38:VAL:HB	25:B0:59:LEU:HD12	1.96	0.46
25:B0:45:PHE:CB	25:B0:59:LEU:HD11	2.45	0.46
31:B6:15:GLU:O	31:B6:17:LYS:N	2.48	0.46
35:BA:1005:C:C2	35:BA:1006:C:C5	3.04	0.46
35:BA:1058:G:N1	35:BA:1059:G:N7	2.63	0.46
35:BA:1120:G:C6	35:BA:1121:C:N3	2.84	0.46
35:BA:1200:C:C2	35:BA:1246:A:C2	3.03	0.46
35:BA:1501:C:H5''	35:BA:1501:C:H6	1.81	0.46
35:BA:1502:C:H5'	35:BA:1503:U:OP2	2.16	0.46
35:BA:1721:G:H8	35:BA:1741:A:H62	1.64	0.46
35:BA:2031:A:N6	35:BA:2498:C:H1'	2.31	0.46
35:BA:2304:G:OP1	41:BG:124:SER:OG	2.30	0.46
35:BA:2309:A:C2'	35:BA:2310:A:C5'	2.94	0.46
35:BA:2365:G:O2'	35:BA:2366:A:H8	1.95	0.46
35:BA:2068:U:N3	35:BA:2430:A:H2	2.13	0.46
35:BA:2585:U:O4'	35:BA:2585:U:O2	2.31	0.46
35:BA:2718:G:OP1	51:BT:100:TYR:CD2	2.64	0.46
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.51	0.46
35:BA:2043:C:C4	35:BA:2777:G:C2	3.04	0.46
35:BA:486:C:H4'	54:BW:60:ASN:ND2	2.31	0.46
35:BA:605:C:H1'	35:BA:657:U:O2'	2.16	0.46
36:BB:41:U:C2	41:BG:70:VAL:HB	2.51	0.46
37:BC:104:LEU:O	37:BC:105:ASP:CB	2.63	0.46
38:BD:6:PHE:HE1	38:BD:13:ARG:HH21	1.52	0.46
38:BD:241:PRO:O	38:BD:242:ARG:C	2.53	0.46
39:BE:184:VAL:O	39:BE:186:GLY:N	2.48	0.46
40:BF:110:LEU:C	40:BF:112:MET:N	2.68	0.46
41:BG:135:LEU:HD23	41:BG:155:MET:CG	2.46	0.46
42:BH:118:PRO:O	42:BH:119:GLU:O	2.33	0.46
42:BH:129:THR:HB	42:BH:130:ARG:H	1.54	0.46
35:BA:1061:U:N3	44:BK:55:UNK:C	2.79	0.46
45:BN:62:VAL:CG1	45:BN:62:VAL:O	2.61	0.46
47:BP:23:PRO:HD2	47:BP:33:ARG:CZ	2.43	0.46
52:BU:83:LEU:O	52:BU:88:ILE:HG13	2.15	0.46
35:BA:564:C:OP1	53:BV:77:ALA:CB	2.63	0.46
35:BA:2012:G:C4'	54:BW:96:ILE:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:88:LYS:NZ	56:BY:93:GLY:O	2.36	0.46
57:BZ:120:ILE:HG12	57:BZ:171:ILE:C	2.36	0.46
1:AA:1059:C:O3'	14:AN:45:ARG:NH2	2.49	0.46
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.69	0.46
1:AA:110:C:O2'	1:AA:111:G:H5'	2.16	0.46
1:AA:1049:U:O2	1:AA:1201:A:C5	2.69	0.46
1:AA:986:A:N1	1:AA:1220:G:C6	2.84	0.46
1:AA:1250:A:O2'	9:AI:68:GLY:HA2	2.16	0.46
1:AA:1418:A:C2	1:AA:1483:A:C4	3.03	0.46
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.80	0.46
1:AA:431:A:H2'	1:AA:432:A:H8	1.80	0.46
1:AA:867:G:H2'	1:AA:868:C:H6	1.80	0.46
1:AA:921:U:O2	5:AE:19:MET:HB2	2.16	0.46
2:AB:224:GLN:O	2:AB:225:ALA:C	2.54	0.46
2:AB:221:LEU:HD13	2:AB:225:ALA:HB2	1.97	0.46
2:AB:64:ARG:HG2	2:AB:65:GLY:N	2.30	0.46
3:AC:128:PHE:O	3:AC:129:ALA:C	2.54	0.46
5:AE:77:PRO:HG2	5:AE:142:LEU:CD2	2.44	0.46
6:AF:98:LEU:CD1	6:AF:98:LEU:H	1.96	0.46
7:AG:126:ASP:OD1	7:AG:126:ASP:N	2.47	0.46
11:AK:57:THR:HG22	11:AK:60:ALA:HB2	1.98	0.46
12:AL:89:ARG:HD2	12:AL:91:LYS:N	2.30	0.46
13:AM:15:VAL:HG13	13:AM:44:ARG:O	2.15	0.46
14:AN:53:LEU:HB3	14:AN:56:VAL:CG2	2.34	0.46
15:AO:33:THR:O	15:AO:36:ILE:HB	2.15	0.46
19:AS:11:VAL:HA	19:AS:38:SER:CB	2.46	0.46
19:AS:77:THR:HG23	19:AS:78:ARG:H	1.81	0.46
22:AV:27:U:H2'	22:AV:28:C:H5''	1.92	0.46
24:AY:103:LEU:HB3	24:AY:106:VAL:HG11	1.98	0.46
24:AY:122:ARG:O	24:AY:123:THR:C	2.52	0.46
24:AY:225:GLN:CA	24:AY:228:ARG:CB	2.90	0.46
24:AY:498:GLY:O	24:AY:499:ASP:CB	2.63	0.46
28:B3:25:ALA:HA	35:BA:849:A:N1	2.30	0.46
31:B6:15:GLU:OE1	31:B6:18:ARG:NE	2.49	0.46
31:B6:27:LYS:O	31:B6:27:LYS:HG3	2.15	0.46
32:B7:1:MET:HG2	35:BA:753:C:OP1	2.16	0.46
33:B8:3:LYS:HD3	35:BA:242:G:C5'	2.45	0.46
35:BA:1340:U:H4'	35:BA:1394:U:H1'	1.97	0.46
35:BA:1695:G:N2	35:BA:1696:G:C5	2.84	0.46
35:BA:1803:A:C3'	35:BA:1804:C:H6	2.29	0.46
35:BA:1845:G:N1	35:BA:1895:C:N3	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:A:H2	35:BA:1960:A:O4'	1.99	0.46
35:BA:2048:G:O4'	35:BA:2823:A:N1	2.48	0.46
35:BA:2156:G:OP2	35:BA:2156:G:H8	1.98	0.46
35:BA:2309:A:H2'	35:BA:2310:A:H5'	1.96	0.46
35:BA:2453:A:C8	35:BA:2453:A:H3'	2.51	0.46
35:BA:467:G:H2'	35:BA:468:G:C8	2.51	0.46
35:BA:582:G:H2'	35:BA:583:G:H8	1.80	0.46
35:BA:676:A:H1'	35:BA:2443:C:O4'	2.15	0.46
35:BA:848:G:H5'	35:BA:848:G:C8	2.49	0.46
35:BA:972:G:C2'	35:BA:973:A:C8	2.90	0.46
28:B3:13:ILE:HD11	35:BA:989:G:N1	2.30	0.46
36:BB:112:U:H2'	36:BB:113:G:H8	1.81	0.46
36:BB:67:G:C2	36:BB:68:C:C5	3.03	0.46
37:BC:131:LEU:HD22	37:BC:136:LEU:HB2	1.97	0.46
37:BC:59:ARG:NE	37:BC:164:ARG:CD	2.78	0.46
38:BD:214:TRP:C	38:BD:216:GLY:N	2.66	0.46
35:BA:2076:U:H5	38:BD:244:ARG:HH22	1.60	0.46
38:BD:26:LYS:O	38:BD:27:THR:CG2	2.62	0.46
38:BD:65:ILE:HD11	38:BD:88:ARG:NH1	2.31	0.46
39:BE:46:ALA:C	39:BE:84:PHE:O	2.54	0.46
40:BF:33:LEU:CD2	40:BF:33:LEU:H	2.29	0.46
42:BH:154:PRO:O	42:BH:155:SER:HB3	2.16	0.46
42:BH:12:PRO:CD	42:BH:15:VAL:CG1	2.93	0.46
42:BH:18:GLU:HG3	42:BH:25:LYS:HB2	1.97	0.46
45:BN:114:ARG:O	45:BN:117:PHE:N	2.49	0.46
45:BN:123:TYR:CD1	45:BN:123:TYR:N	2.84	0.46
46:BO:87:ILE:HD13	46:BO:87:ILE:N	2.30	0.46
48:BQ:106:VAL:O	48:BQ:107:ALA:CB	2.64	0.46
35:BA:952:G:P	48:BQ:16:ARG:HH22	2.39	0.46
48:BQ:51:ARG:O	48:BQ:55:VAL:HG12	2.15	0.46
49:BR:102:GLU:O	49:BR:103:ARG:C	2.53	0.46
50:BS:35:ILE:C	50:BS:36:TYR:HD1	2.19	0.46
51:BT:58:ASN:ND2	51:BT:58:ASN:N	2.30	0.46
51:BT:48:ILE:N	51:BT:63:VAL:HG13	2.30	0.46
53:BV:32:THR:O	53:BV:33:VAL:HG13	2.15	0.46
53:BV:95:LEU:HD13	53:BV:97:LYS:CE	2.46	0.46
54:BW:26:GLY:O	54:BW:27:LYS:HG3	2.14	0.46
56:BY:31:LEU:HB2	56:BY:32:PRO:CA	2.45	0.46
56:BY:46:LYS:CG	56:BY:47:LYS:N	2.79	0.46
57:BZ:7:ALA:O	57:BZ:61:LEU:HA	2.15	0.46
36:BB:75:G:C2'	57:BZ:85:HIS:CE1	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1117:G:C6	1:AA:1184:G:C6	3.03	0.46
1:AA:1267:C:O2	21:AU:20:LYS:HD2	2.15	0.46
1:AA:1443:G:H2'	1:AA:1443:G:N3	2.31	0.46
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.16	0.46
1:AA:67:C:O2'	1:AA:171:A:H1'	2.16	0.46
1:AA:686:U:O2	11:AK:42:TRP:HZ2	1.99	0.46
1:AA:777:A:C2'	1:AA:778:G:O5'	2.64	0.46
1:AA:816:A:OP2	1:AA:1526:G:O2'	2.33	0.46
1:AA:894:G:O2'	1:AA:895:G:H5'	2.16	0.46
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.89	0.46
2:AB:87:ARG:HH11	2:AB:223:ILE:CD1	2.14	0.46
4:AD:23:GLY:HA3	4:AD:112:VAL:O	2.15	0.46
5:AE:107:ARG:C	5:AE:109:ILE:H	2.19	0.46
5:AE:148:VAL:HG12	5:AE:149:GLU:N	2.31	0.46
5:AE:99:GLY:O	5:AE:118:ILE:N	2.43	0.46
6:AF:46:ARG:NH2	18:AR:37:VAL:HG22	2.31	0.46
7:AG:108:ALA:HB2	7:AG:123:GLU:CB	2.46	0.46
8:AH:31:PHE:CE1	8:AH:118:VAL:HG21	2.51	0.46
8:AH:50:ARG:O	8:AH:51:VAL:HG13	2.16	0.46
8:AH:92:ARG:HB2	8:AH:94:TYR:CE1	2.50	0.46
12:AL:76:ASN:CG	12:AL:76:ASN:O	2.54	0.46
12:AL:92:ASP:C	12:AL:93:LEU:HD23	2.35	0.46
13:AM:30:ALA:C	13:AM:32:GLU:H	2.19	0.46
15:AO:14:GLU:CG	15:AO:15:PHE:CE1	2.99	0.46
24:AY:184:HIS:CE1	24:AY:191:TYR:OH	2.68	0.46
24:AY:287:ARG:HH21	24:AY:289:VAL:HG13	1.81	0.46
24:AY:105:ALA:O	24:AY:319:ARG:NH1	2.49	0.46
24:AY:457:TYR:HB2	24:AY:459:VAL:CG2	2.36	0.46
24:AY:4:SER:CB	24:AY:7:LEU:HD12	2.43	0.46
24:AY:99:THR:O	24:AY:100:TYR:C	2.53	0.46
25:B0:23:VAL:HG22	25:B0:38:VAL:HG22	1.97	0.46
27:B2:50:ILE:CG2	27:B2:51:ARG:N	2.62	0.46
28:B3:21:ALA:O	28:B3:25:ALA:HB2	2.16	0.46
30:B5:10:LYS:O	30:B5:11:THR:C	2.54	0.46
31:B6:18:ARG:CG	31:B6:19:ARG:H	2.20	0.46
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.76	0.46
34:B9:24:TYR:CE2	34:B9:35:ARG:HG3	2.49	0.46
35:BA:1018:C:C2'	35:BA:1019:U:H5'	2.46	0.46
35:BA:1124:C:H2'	35:BA:1125:G:O4'	2.16	0.46
35:BA:1289:C:H4'	35:BA:1330:C:C1'	2.46	0.46
35:BA:1378:A:C8	35:BA:1380:G:C6	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1624:G:C5	35:BA:1625:C:C5	3.03	0.46
35:BA:1267:U:H5	35:BA:2012:G:C2	2.33	0.46
35:BA:2053:G:H4'	39:BE:145:LYS:HD3	1.98	0.46
35:BA:2068:U:H5'	35:BA:2069:G:H5''	1.97	0.46
35:BA:2078:C:H2'	35:BA:2079:U:O4'	2.15	0.46
35:BA:2106:G:H2'	35:BA:2107:C:H1'	1.97	0.46
35:BA:2173:A:C2'	35:BA:2173:A:N3	2.79	0.46
35:BA:2396:G:N1	35:BA:2421:G:C6	2.84	0.46
35:BA:2570:G:O2'	35:BA:2571:C:H5'	2.16	0.46
35:BA:2801(A):A:H4'	35:BA:2802:G:C2'	2.45	0.46
35:BA:298:G:H8	35:BA:298:G:H5''	1.81	0.46
35:BA:401:A:H2'	35:BA:402:A:C8	2.50	0.46
35:BA:573:G:OP2	53:BV:78:LYS:NZ	2.48	0.46
35:BA:71:A:OP1	35:BA:112:U:O2'	2.27	0.46
35:BA:955:C:C5	35:BA:956:G:C8	3.04	0.46
35:BA:957:A:N7	35:BA:959:A:C5	2.84	0.46
35:BA:971:C:O2'	35:BA:983:A:H1'	2.16	0.46
36:BB:10:C:N3	36:BB:11:C:C5	2.84	0.46
37:BC:133:PRO:C	37:BC:135:GLY:H	2.19	0.46
38:BD:183:ARG:HH21	38:BD:269:PHE:HD2	1.64	0.46
39:BE:103:ASP:OD2	39:BE:202:LYS:CE	2.64	0.46
39:BE:199:ARG:CG	39:BE:200:GLU:H	2.28	0.46
40:BF:195:ASP:H	40:BF:198:ALA:HB3	1.81	0.46
40:BF:33:LEU:N	40:BF:33:LEU:CD2	2.78	0.46
40:BF:62:ARG:HG2	40:BF:62:ARG:NH1	2.31	0.46
40:BF:8:GLN:O	40:BF:10:PRO:HD3	2.14	0.46
40:BF:95:ARG:NH2	40:BF:97:TYR:OH	2.49	0.46
41:BG:166:ASP:C	41:BG:168:GLU:N	2.69	0.46
41:BG:18:GLU:HA	41:BG:18:GLU:OE1	2.16	0.46
42:BH:154:PRO:CB	42:BH:161:GLY:HA3	2.42	0.46
45:BN:10:GLU:CD	45:BN:11:PRO:HD2	2.36	0.46
51:BT:35:LYS:NZ	51:BT:41:ARG:CD	2.78	0.46
52:BU:85:LYS:C	52:BU:87:GLY:H	2.19	0.46
35:BA:1187:G:C5'	53:BV:81:TYR:CE1	2.96	0.46
56:BY:12:THR:CG2	56:BY:75:ILE:HG21	2.46	0.46
56:BY:79:CYS:SG	56:BY:80:GLY:N	2.89	0.46
1:AA:1178:G:N7	9:AI:97:LYS:NZ	2.53	0.46
1:AA:1190:G:H5'	1:AA:1191:A:OP1	2.16	0.46
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.16	0.46
1:AA:1363:C:H5'	1:AA:1363(A):A:O5'	2.16	0.46
1:AA:661:G:N2	1:AA:745:C:C2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:948:C:H42	1:AA:1233:G:H1	1.64	0.46
1:AA:949:A:C5	1:AA:950:U:C5	3.04	0.46
2:AB:131:PRO:HG2	2:AB:134:GLU:HB2	1.97	0.46
3:AC:139:GLN:NE2	3:AC:143:GLU:CD	2.65	0.46
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.81	0.46
4:AD:200:GLU:O	4:AD:201:GLN:C	2.53	0.46
4:AD:46:LYS:O	4:AD:47:ARG:C	2.55	0.46
5:AE:94:ALA:HB1	5:AE:98:THR:CG2	2.43	0.46
7:AG:34:GLY:C	7:AG:36:LYS:N	2.68	0.46
9:AI:22:GLY:HA3	9:AI:60:ASP:CG	2.35	0.46
9:AI:10:ARG:CG	9:AI:75:ASP:HB3	2.34	0.46
11:AK:111:ASP:O	11:AK:111:ASP:OD1	2.34	0.46
11:AK:57:THR:CG2	11:AK:60:ALA:CB	2.94	0.46
11:AK:62:GLN:O	11:AK:65:ALA:N	2.49	0.46
11:AK:73:MET:HG2	11:AK:103:LEU:HD11	1.97	0.46
12:AL:24:VAL:HG12	12:AL:26:ALA:HB2	1.97	0.46
13:AM:30:ALA:O	13:AM:33:ALA:HB3	2.16	0.46
1:AA:1359:C:P	14:AN:22:THR:HG21	2.54	0.46
17:AQ:81:ARG:C	17:AQ:83:ASP:N	2.69	0.46
24:AY:327:LYS:CD	24:AY:357:GLU:HG3	2.45	0.46
24:AY:331:LEU:CB	24:AY:379:PHE:CD2	2.95	0.46
27:B2:3:LEU:CD2	27:B2:7:ARG:HH12	2.29	0.46
32:B7:3:ARG:NH2	35:BA:789:A:C2	2.84	0.46
35:BA:1059:G:OP2	44:BK:1:UNK:CB	2.64	0.46
35:BA:1260:G:C5	35:BA:1261:C:C5	3.04	0.46
35:BA:1334:G:H2'	35:BA:1335:U:C6	2.50	0.46
35:BA:132:G:C2'	35:BA:133:C:O4'	2.63	0.46
35:BA:1348:G:C6	35:BA:1349:A:N1	2.84	0.46
35:BA:1392:A:C6	35:BA:1393:A:C6	3.03	0.46
35:BA:1511:C:C5	35:BA:1512:U:C5	3.04	0.46
35:BA:1696:G:H2'	35:BA:1697:G:O4'	2.15	0.46
35:BA:1701:A:H5'	35:BA:1702:G:OP2	2.16	0.46
35:BA:1949:G:H2'	35:BA:1950:G:C8	2.50	0.46
35:BA:530:G:N2	35:BA:2021:C:H1'	2.31	0.46
35:BA:2115:G:H4'	35:BA:2167:U:O2	2.15	0.46
35:BA:2332:U:H4'	35:BA:2336:A:N6	2.31	0.46
35:BA:2341:G:H2'	35:BA:2342:C:C6	2.51	0.46
35:BA:2348:U:C2'	35:BA:2349:G:H5'	2.46	0.46
35:BA:2443:C:C6	35:BA:2443:C:H3'	2.49	0.46
35:BA:247:G:OP2	35:BA:249:C:H5	1.99	0.46
35:BA:2822:G:H5''	39:BE:159:HIS:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.51	0.46
35:BA:2850:A:H2'	35:BA:2851:A:O4'	2.16	0.46
35:BA:528:A:H3'	35:BA:528:A:H8	1.81	0.46
35:BA:831:G:O3'	47:BP:40:SER:HB2	2.16	0.46
35:BA:568:U:P	35:BA:945:A:H61	2.39	0.46
35:BA:963:U:C2	35:BA:964:C:C5	3.04	0.46
36:BB:116:G:C2	36:BB:117:G:C8	3.04	0.46
36:BB:58:A:C8	36:BB:59:A:N7	2.84	0.46
37:BC:66:HIS:CE1	37:BC:184:LYS:HZ3	2.34	0.46
38:BD:218:ARG:O	38:BD:219:PRO:C	2.54	0.46
39:BE:44:TYR:O	39:BE:45:THR:CB	2.63	0.46
39:BE:4:ILE:H	39:BE:81:ILE:HD11	1.80	0.46
40:BF:179:GLU:C	40:BF:181:LEU:N	2.69	0.46
41:BG:107:LEU:HD11	41:BG:178:PHE:CE1	2.48	0.46
43:BJ:55:UNK:O	43:BJ:84:UNK:N	2.48	0.46
35:BA:558:G:OP1	45:BN:110:GLY:HA3	2.16	0.46
45:BN:59:LYS:O	45:BN:60:ILE:C	2.54	0.46
47:BP:122:PRO:HA	47:BP:141:ALA:O	2.15	0.46
48:BQ:127:ILE:HG13	48:BQ:128:LYS:O	2.15	0.46
48:BQ:1:MET:HG3	48:BQ:2:LEU:N	2.31	0.46
48:BQ:43:THR:O	48:BQ:46:GLN:HB2	2.16	0.46
35:BA:957:A:OP1	48:BQ:77:LYS:HB2	2.16	0.46
51:BT:132:LYS:CE	51:BT:132:LYS:H	2.29	0.46
51:BT:66:VAL:O	51:BT:66:VAL:HG23	2.16	0.46
52:BU:112:ARG:O	52:BU:115:ALA:CB	2.63	0.46
52:BU:45:TYR:O	52:BU:48:ALA:HB3	2.15	0.46
52:BU:74:LEU:CD1	52:BU:75:ASN:N	2.79	0.46
54:BW:29:LEU:HD23	54:BW:33:ARG:HH11	1.80	0.46
1:AA:1000:U:N3	1:AA:1042:G:N2	2.64	0.46
1:AA:1203:C:C5	1:AA:1204:A:N7	2.83	0.46
1:AA:1424:C:O2'	1:AA:1425:U:H5'	2.16	0.46
1:AA:1498:U:C5	23:AX:17:U:H4'	2.50	0.46
1:AA:275:G:C4	1:AA:276:G:C8	3.04	0.46
1:AA:61:G:H4'	1:AA:386:C:O2'	2.16	0.46
1:AA:683:G:C6	1:AA:684:A:C6	3.04	0.46
1:AA:896:C:C6	1:AA:896:C:H3'	2.50	0.46
1:AA:994:A:C2	1:AA:995:C:C5	3.04	0.46
1:AA:998:G:C6	1:AA:999:C:N4	2.84	0.46
3:AC:21:ARG:O	3:AC:22:TRP:HD1	1.98	0.46
4:AD:141:ARG:O	4:AD:185:PHE:HD2	1.98	0.46
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:20:TYR:O	4:AD:21:LEU:HD23	2.16	0.46
5:AE:107:ARG:O	5:AE:109:ILE:N	2.49	0.46
7:AG:103:TRP:O	7:AG:104:LEU:C	2.54	0.46
9:AI:112:LYS:CD	9:AI:112:LYS:C	2.75	0.46
9:AI:127:LYS:CG	9:AI:128:ARG:N	2.75	0.46
12:AL:85:ILE:CG2	12:AL:86:ARG:N	2.79	0.46
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.98	0.46
13:AM:16:ASP:HB3	13:AM:34:LEU:CD1	2.47	0.46
14:AN:33:VAL:HA	14:AN:39:LEU:O	2.16	0.46
15:AO:12:ILE:HD11	15:AO:31:LEU:CD2	2.45	0.46
15:AO:39:LEU:HB2	15:AO:56:LEU:HD21	1.87	0.46
15:AO:66:LEU:O	15:AO:67:LEU:C	2.52	0.46
17:AQ:34:LYS:O	17:AQ:36:ILE:HG12	2.15	0.46
1:AA:276:G:O2'	17:AQ:68:ARG:NH1	2.49	0.46
20:AT:74:LYS:HG2	20:AT:75:ASN:H	1.80	0.46
24:AY:69:SER:N	58:AY:1000:GCP:O3G	2.49	0.46
24:AY:122:ARG:NE	24:AY:122:ARG:HA	2.31	0.46
24:AY:131:ARG:HG2	24:AY:131:ARG:NH1	2.30	0.46
12:AL:129:ALA:N	24:AY:487:ARG:HH12	2.13	0.46
24:AY:76:GLN:CG	24:AY:85:ASN:ND2	2.79	0.46
25:B0:24:LYS:O	25:B0:25:ARG:HD3	2.16	0.46
31:B6:29:ASN:O	31:B6:30:THR:C	2.53	0.46
33:B8:22:VAL:HG21	33:B8:53:PRO:CB	2.46	0.46
34:B9:11:CYS:SG	34:B9:12:ASP:N	2.89	0.46
35:BA:1139:G:OP1	45:BN:102:ALA:HA	2.16	0.46
35:BA:1142(A):A:H8	35:BA:1142(A):A:H5'	1.79	0.46
35:BA:1155:A:C2	35:BA:1157:G:C8	3.04	0.46
35:BA:1385:G:C4	35:BA:1386:C:C5	3.04	0.46
35:BA:1614:A:C2	35:BA:1615:C:C5	3.04	0.46
35:BA:1764:G:C2	35:BA:1765:C:C2	3.04	0.46
35:BA:1824:G:O2'	35:BA:1825:A:H5'	2.16	0.46
35:BA:1832:C:C5	35:BA:1833:U:C5	3.04	0.46
35:BA:1906:G:C2	35:BA:1907:G:C4	3.04	0.46
35:BA:1925:C:O2'	35:BA:1926:U:H6	1.94	0.46
35:BA:1987:G:C2	35:BA:1988:C:C2	3.04	0.46
35:BA:1988:C:O2'	35:BA:1989:G:H5'	2.16	0.46
35:BA:1998:G:H2'	35:BA:1999:C:H5'	1.98	0.46
35:BA:2143:C:OP1	35:BA:2182:G:H4'	2.16	0.46
35:BA:2407:G:H2'	35:BA:2408:U:H6	1.81	0.46
33:B8:3:LYS:CD	35:BA:242:G:O5'	2.52	0.46
35:BA:2475:C:H2'	35:BA:2477:C:OP1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2740:A:C6	35:BA:2741:A:C6	3.04	0.46
35:BA:2748:A:H2	42:BH:63:SER:HG	1.60	0.46
35:BA:2743:C:C2	35:BA:2762:G:N2	2.84	0.46
35:BA:2787:C:O2	35:BA:2787:C:C2'	2.63	0.46
35:BA:2791:C:H4'	35:BA:2792:G:O5'	2.15	0.46
35:BA:2818:G:O2'	35:BA:2837:G:H5'	2.16	0.46
35:BA:2849:U:O2	35:BA:2866:U:H1'	2.16	0.46
35:BA:556:G:C6	35:BA:557:U:O4	2.69	0.46
35:BA:660:G:O2'	35:BA:661:C:H5'	2.16	0.46
35:BA:718:A:C2'	35:BA:719:C:H5'	2.46	0.46
35:BA:941:A:N1	35:BA:942:G:C2	2.84	0.46
38:BD:213:ARG:O	38:BD:216:GLY:N	2.45	0.46
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.98	0.46
35:BA:1826:G:C4'	38:BD:242:ARG:HH21	2.28	0.46
39:BE:156:MET:HB3	39:BE:157:ALA:H	1.41	0.46
39:BE:179:GLU:O	39:BE:180:ASN:CB	2.64	0.46
40:BF:139:PHE:O	40:BF:140:LEU:C	2.55	0.46
40:BF:57:VAL:CG1	40:BF:58:ALA:N	2.79	0.46
45:BN:97:ARG:HA	45:BN:100:GLU:CG	2.46	0.46
45:BN:99:LEU:HA	45:BN:102:ALA:HB3	1.98	0.46
35:BA:246:C:H5'	47:BP:71:VAL:HG23	1.98	0.46
48:BQ:31:ASP:O	48:BQ:32:TYR:CG	2.69	0.46
49:BR:18:LEU:HD11	49:BR:22:ARG:NE	2.31	0.46
51:BT:131:ALA:C	51:BT:133:GLU:N	2.67	0.46
57:BZ:177:PRO:O	57:BZ:178:GLU:HG2	2.15	0.46
57:BZ:23:LYS:HA	57:BZ:40:ASP:HA	1.98	0.46
1:AA:1293:G:H2'	1:AA:1294:G:C8	2.51	0.45
1:AA:1335:C:O2'	1:AA:1336:C:OP2	2.31	0.45
1:AA:19:C:O2	1:AA:572:A:H2	1.99	0.45
1:AA:220:G:H2'	1:AA:221:C:H5'	1.97	0.45
1:AA:414:A:C5	1:AA:431:A:C2	3.04	0.45
1:AA:416:G:C6	1:AA:417:C:C4	3.04	0.45
1:AA:748:C:H1'	1:AA:749:C:H5	1.80	0.45
1:AA:775:G:N2	1:AA:776:G:H1'	2.31	0.45
1:AA:788:U:H2'	1:AA:789:U:O4'	2.16	0.45
1:AA:861:G:N2	1:AA:872:A:C8	2.84	0.45
1:AA:939:G:OP1	7:AG:95:ARG:NH2	2.46	0.45
2:AB:29:ALA:O	2:AB:32:ILE:CG2	2.62	0.45
5:AE:107:ARG:CG	5:AE:108:ALA:N	2.78	0.45
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.81	0.45
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.68	0.45
11:AK:82:VAL:CG2	11:AK:83:ILE:N	2.78	0.45
13:AM:65:LYS:HD3	13:AM:69:GLU:O	2.16	0.45
15:AO:42:HIS:CD2	15:AO:42:HIS:O	2.63	0.45
15:AO:82:ILE:HD11	15:AO:87:ILE:HG13	1.98	0.45
18:AR:33:ASP:O	18:AR:36:ASN:OD1	2.34	0.45
19:AS:51:VAL:CG1	19:AS:75:ALA:CB	2.94	0.45
20:AT:10:LEU:O	20:AT:12:ALA:N	2.49	0.45
21:AU:17:THR:O	21:AU:22:ARG:HD3	2.16	0.45
22:AV:52:G:C6	22:AV:63:G:C6	3.04	0.45
22:AV:69:C:HO2'	22:AV:70:G:H5''	1.75	0.45
23:AX:14:A:H2'	23:AX:15:A:H5''	1.97	0.45
24:AY:19:ILE:HB	24:AY:126:LEU:HB3	1.97	0.45
24:AY:19:ILE:CG1	24:AY:19:ILE:O	2.65	0.45
24:AY:90:PRO:CD	24:AY:90:PRO:O	2.63	0.45
26:B1:76:ARG:HB3	35:BA:271(Q):G:O3'	2.17	0.45
27:B2:57:ILE:O	27:B2:58:ALA:O	2.33	0.45
27:B2:25:VAL:HG21	27:B2:60:LEU:HB3	1.97	0.45
28:B3:4:LEU:O	28:B3:36:VAL:CA	2.61	0.45
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.98	0.45
35:BA:83:G:N2	35:BA:103:A:OP2	2.50	0.45
35:BA:1084:A:OP1	43:BJ:54:UNK:O	2.35	0.45
35:BA:1380:G:H2'	35:BA:1381:G:H8	1.81	0.45
35:BA:1925:C:O2	35:BA:1925:C:C2'	2.64	0.45
35:BA:2072:G:N1	35:BA:2438:U:C4	2.84	0.45
35:BA:2304:G:N2	35:BA:2313:C:C2	2.84	0.45
35:BA:2303:G:N2	35:BA:2314:C:C2	2.84	0.45
35:BA:2376:A:C2	35:BA:2377:A:H1'	2.51	0.45
35:BA:2435:A:H2'	35:BA:2436:G:O5'	2.15	0.45
35:BA:2063:C:O2	35:BA:2451:A:C2	2.68	0.45
35:BA:2438:U:OP1	35:BA:2600:A:H5'	2.16	0.45
35:BA:2648:C:O2'	35:BA:2649:U:H5'	2.16	0.45
35:BA:575:A:C2'	35:BA:576:U:O5'	2.64	0.45
35:BA:579:G:C6	35:BA:580:C:N4	2.84	0.45
35:BA:687:C:C2'	35:BA:688:U:H5'	2.46	0.45
35:BA:804:A:H2'	35:BA:806:C:C4	2.51	0.45
35:BA:986:C:C2'	35:BA:987:G:H5'	2.46	0.45
28:B3:11:SER:HB2	35:BA:988:A:C5'	2.46	0.45
28:B3:52:HIS:CE1	36:BB:83:G:C5'	2.99	0.45
37:BC:40:THR:HA	37:BC:177:LYS:CA	2.38	0.45
37:BC:4:GLY:C	37:BC:6:ARG:N	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:33:LEU:HD13	38:BD:102:LYS:HD2	1.99	0.45
38:BD:89:SER:OG	38:BD:201:HIS:HD2	1.99	0.45
35:BA:2053:G:O3'	39:BE:145:LYS:HD3	2.16	0.45
39:BE:45:THR:O	39:BE:46:ALA:CB	2.63	0.45
40:BF:162:LEU:HD12	40:BF:162:LEU:N	2.26	0.45
41:BG:95:ARG:O	41:BG:96:ARG:O	2.33	0.45
42:BH:94:TYR:O	42:BH:95:ARG:HG3	2.16	0.45
46:BO:37:ASP:O	46:BO:61:VAL:HG23	2.16	0.45
47:BP:23:PRO:HG2	47:BP:33:ARG:HE	1.81	0.45
35:BA:910:A:H62	48:BQ:13:GLN:H	1.64	0.45
48:BQ:16:ARG:CG	48:BQ:17:LEU:N	2.79	0.45
50:BS:38:GLN:C	50:BS:39:ILE:HG13	2.36	0.45
54:BW:5:ALA:O	54:BW:6:ILE:CB	2.64	0.45
56:BY:27:VAL:HG12	56:BY:28:LYS:N	2.31	0.45
57:BZ:10:ARG:HB3	57:BZ:36:LYS:CG	2.38	0.45
1:AA:1072:G:C5	1:AA:1073:U:C4	3.04	0.45
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.80	0.45
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.81	0.45
1:AA:1341:U:O2'	1:AA:1342:C:H5'	2.16	0.45
1:AA:245:C:C2	1:AA:284:G:C2	3.04	0.45
1:AA:274:A:O2'	1:AA:275:G:H8	1.97	0.45
1:AA:782:A:N7	1:AA:783:C:C4	2.84	0.45
1:AA:786:G:C2	1:AA:787:A:C8	3.04	0.45
1:AA:971:G:C4'	1:AA:972:C:H5''	2.45	0.45
1:AA:985:C:H6	1:AA:985:C:O5'	2.00	0.45
2:AB:20:GLU:HG2	2:AB:189:ASP:OD2	2.17	0.45
2:AB:41:ILE:HG22	2:AB:42:ILE:N	2.31	0.45
3:AC:150:LYS:HE3	3:AC:167:TRP:NE1	2.30	0.45
4:AD:108:LEU:O	4:AD:165:MET:CE	2.64	0.45
5:AE:94:ALA:CB	5:AE:98:THR:HG21	2.45	0.45
6:AF:8:ILE:HD11	6:AF:79:LEU:HD13	1.98	0.45
7:AG:117:ALA:O	7:AG:120:ILE:HB	2.16	0.45
7:AG:72:ARG:N	7:AG:142:GLU:OE2	2.46	0.45
7:AG:8:GLU:HG3	7:AG:9:VAL:H	1.81	0.45
8:AH:32:LYS:C	8:AH:36:LEU:HG	2.36	0.45
9:AI:52:ALA:HB3	9:AI:95:LYS:HZ3	1.80	0.45
10:AJ:65:LEU:O	10:AJ:65:LEU:CG	2.61	0.45
13:AM:11:ARG:O	13:AM:13:LYS:N	2.49	0.45
16:AP:82:GLN:O	16:AP:83:GLU:HB2	2.16	0.45
19:AS:78:ARG:H	19:AS:81:ARG:NH1	2.14	0.45
24:AY:327:LYS:N	24:AY:357:GLU:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:420:SER:HB2	24:AY:427:VAL:CG2	2.37	0.45
27:B2:61:LEU:HD23	27:B2:64:LEU:HD12	1.98	0.45
28:B3:14:GLY:C	28:B3:15:TYR:CD1	2.90	0.45
29:B4:27:THR:O	29:B4:28:LYS:CB	2.64	0.45
32:B7:23:ARG:C	32:B7:24:THR:CG2	2.85	0.45
33:B8:7:HIS:CE1	33:B8:59:LYS:HZ2	2.32	0.45
35:BA:1055:G:N2	35:BA:1105:U:H1'	2.30	0.45
35:BA:1221:C:C2'	35:BA:1221(A):C:H6	2.20	0.45
35:BA:1246:A:N6	35:BA:1247:A:C6	2.84	0.45
35:BA:1344:G:H5'	35:BA:1384:A:C6	2.51	0.45
35:BA:1719:G:C2	35:BA:1720:U:C2	3.04	0.45
35:BA:18:C:N4	35:BA:19:C:N4	2.64	0.45
35:BA:2056:G:H2'	35:BA:2056:G:N3	2.30	0.45
35:BA:2095:C:H2'	35:BA:2096:U:H6	1.81	0.45
35:BA:2111:C:O2	35:BA:2111:C:H2'	2.15	0.45
35:BA:2189:U:C2'	35:BA:2190:G:H4'	2.47	0.45
35:BA:2331:G:C6	35:BA:2332:U:N3	2.85	0.45
35:BA:792:G:C4	35:BA:2440:C:C2	3.04	0.45
34:B9:19:ARG:NH1	35:BA:2755:C:C2'	2.80	0.45
35:BA:2628:C:O2'	35:BA:2781:A:H3'	2.16	0.45
35:BA:474:G:C5	35:BA:510:C:N4	2.84	0.45
35:BA:572:A:H5''	35:BA:573:G:OP2	2.15	0.45
35:BA:59:U:H5'	35:BA:60:G:OP2	2.15	0.45
35:BA:61:G:O5'	35:BA:61:G:H8	2.00	0.45
35:BA:663:G:OP1	47:BP:20:GLY:O	2.34	0.45
35:BA:672:C:O2'	35:BA:673:C:H5''	2.15	0.45
35:BA:722:A:H2'	35:BA:723:G:C8	2.51	0.45
35:BA:886:C:C5	35:BA:887:A:N7	2.84	0.45
37:BC:34:THR:O	37:BC:35:ALA:HB2	2.16	0.45
38:BD:164:GLN:C	38:BD:165:ILE:HD12	2.36	0.45
38:BD:224:ALA:O	38:BD:233:HIS:O	2.34	0.45
40:BF:113:ALA:HB1	40:BF:186:ILE:CG2	2.45	0.45
41:BG:80:PHE:HD1	41:BG:81:LYS:HG2	1.81	0.45
42:BH:155:SER:C	42:BH:157:TYR:H	2.18	0.45
42:BH:54:ARG:HD2	42:BH:54:ARG:H	1.82	0.45
42:BH:55:PRO:HG2	42:BH:56:SER:H	1.80	0.45
43:BJ:45:UNK:O	43:BJ:49:UNK:N	2.50	0.45
45:BN:27:ALA:O	45:BN:28:THR:C	2.55	0.45
35:BA:1664:A:H2	46:BO:1:MET:CE	2.29	0.45
46:BO:31:LYS:C	46:BO:32:TYR:CD1	2.89	0.45
48:BQ:26:TYR:HA	48:BQ:137:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:74:TYR:HD1	48:BQ:74:TYR:C	2.20	0.45
48:BQ:98:LYS:O	48:BQ:99:PRO:O	2.34	0.45
49:BR:101:ALA:O	49:BR:102:GLU:CB	2.63	0.45
50:BS:68:GLN:O	50:BS:72:ALA:HB2	2.16	0.45
52:BU:108:GLU:C	52:BU:110:VAL:N	2.69	0.45
52:BU:50:ARG:O	52:BU:53:ARG:N	2.49	0.45
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG23	2.46	0.45
48:BQ:141:GLN:CD	57:BZ:72:ARG:HD3	2.34	0.45
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.51	0.45
1:AA:19:C:OP1	5:AE:125:SER:OG	2.30	0.45
1:AA:126:G:H1	1:AA:235:C:N4	2.14	0.45
1:AA:296:U:O2'	1:AA:297:G:H5'	2.17	0.45
1:AA:373:A:C2	1:AA:374:A:C8	3.04	0.45
1:AA:658:G:H4'	15:AO:22:THR:HG22	1.99	0.45
1:AA:739:C:N3	1:AA:740:U:C5	2.84	0.45
1:AA:815:A:C2	1:AA:1527:C:O2	2.69	0.45
2:AB:142:LEU:HA	2:AB:145:LEU:CB	2.46	0.45
2:AB:21:ARG:HB3	2:AB:39:ILE:HG12	1.98	0.45
3:AC:32:LEU:O	3:AC:35:GLU:N	2.49	0.45
3:AC:31:HIS:O	3:AC:33:LEU:N	2.49	0.45
3:AC:3:ASN:O	3:AC:4:LYS:HB2	2.16	0.45
4:AD:150:GLU:O	4:AD:151:LYS:C	2.55	0.45
4:AD:190:ASP:OD1	4:AD:191:ARG:N	2.50	0.45
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.98	0.45
5:AE:84:PHE:CE2	5:AE:133:TYR:HD2	2.34	0.45
8:AH:5:PRO:CD	8:AH:6:ILE:HD12	2.45	0.45
9:AI:100:GLY:C	9:AI:102:LEU:N	2.68	0.45
11:AK:29:ILE:HA	11:AK:44:SER:HB2	1.98	0.45
13:AM:37:THR:O	13:AM:39:ILE:N	2.49	0.45
13:AM:79:LYS:O	13:AM:82:MET:N	2.49	0.45
15:AO:28:GLN:O	15:AO:32:LEU:N	2.40	0.45
22:AV:52:G:C2	22:AV:63:G:C4	3.03	0.45
24:AY:164:ILE:HD11	24:AY:251:ILE:CA	2.46	0.45
24:AY:443:VAL:O	24:AY:445:GLN:HG2	2.15	0.45
24:AY:513:LEU:HD13	24:AY:517:ARG:NH2	2.24	0.45
35:BA:331:A:OP1	35:BA:1210:A:N6	2.49	0.45
35:BA:1670:C:OP1	35:BA:1671:U:OP2	2.35	0.45
35:BA:1773:A:H2'	35:BA:1774:C:C5'	2.43	0.45
35:BA:1805:U:H6	35:BA:1805:U:O5'	2.00	0.45
35:BA:2009:G:OP1	54:BW:41:LYS:NZ	2.47	0.45
35:BA:2188:C:H2'	35:BA:2189:U:N1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2403:C:C2	35:BA:2415:G:C2	3.04	0.45
35:BA:2502:G:H5''	35:BA:2503:A:H5''	1.97	0.45
35:BA:2581:G:H22	35:BA:2610:C:C2'	2.30	0.45
35:BA:2739:U:H5	35:BA:2763:G:N7	2.14	0.45
35:BA:2786:U:C2	35:BA:2787:C:C5	3.05	0.45
35:BA:2821:A:C6	35:BA:2822:G:C6	3.04	0.45
35:BA:348:G:H2'	35:BA:349:G:O4'	2.16	0.45
35:BA:696:G:N2	35:BA:697:C:C2	2.84	0.45
35:BA:781:A:H2'	35:BA:1777:U:O2'	2.15	0.45
35:BA:672:C:C2	35:BA:809:G:N2	2.83	0.45
35:BA:843:G:N2	35:BA:844:C:C2	2.84	0.45
35:BA:874:G:C4	35:BA:875:G:C8	3.05	0.45
36:BB:15:A:OP1	36:BB:108:U:O2'	2.35	0.45
36:BB:21:G:C6	36:BB:22:U:C4	3.04	0.45
37:BC:14:VAL:HG21	37:BC:32:LEU:CD1	2.46	0.45
37:BC:20:TYR:HD1	37:BC:24:GLU:HB3	1.81	0.45
37:BC:64:LEU:HD22	37:BC:188:ASN:HB3	1.97	0.45
37:BC:86:ALA:O	37:BC:91:ALA:HB3	2.16	0.45
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.64	0.45
35:BA:2637:U:H5''	39:BE:82:ARG:HE	1.81	0.45
35:BA:615:G:OP2	40:BF:40:GLN:CG	2.63	0.45
41:BG:133:LEU:HD11	41:BG:157:ILE:HB	1.98	0.45
42:BH:117:PRO:HB3	42:BH:123:PHE:HE1	1.81	0.45
35:BA:1070:A:N1	44:BK:7:UNK:C	2.79	0.45
45:BN:61:ARG:CG	45:BN:61:ARG:HH11	2.19	0.45
35:BA:245:G:O3'	47:BP:71:VAL:HA	2.17	0.45
35:BA:2276:G:OP2	48:BQ:86:GLY:N	2.49	0.45
50:BS:73:LEU:HD23	50:BS:73:LEU:C	2.37	0.45
52:BU:101:ARG:HH11	52:BU:101:ARG:HG3	1.80	0.45
52:BU:10:ARG:O	52:BU:14:HIS:HB2	2.16	0.45
57:BZ:54:HIS:O	57:BZ:98:MET:HE1	2.16	0.45
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.32	0.45
1:AA:1048:G:C2	1:AA:1050:G:N7	2.84	0.45
1:AA:112:G:H4'	1:AA:389:A:H4'	1.97	0.45
1:AA:116:A:H2'	1:AA:117:G:O4'	2.17	0.45
1:AA:122:G:C5	1:AA:123:C:C4	3.04	0.45
1:AA:1304:G:C6	1:AA:1305:G:N1	2.83	0.45
1:AA:1352:C:O2	1:AA:1352:C:H2'	2.16	0.45
1:AA:1416:G:C6	1:AA:1417:G:C6	3.05	0.45
1:AA:1502:A:C2	1:AA:1504:G:N3	2.85	0.45
1:AA:14:U:N3	1:AA:17:U:OP2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:332:G:C5	1:AA:333:G:N7	2.84	0.45
1:AA:897:C:C5	1:AA:898:G:N7	2.85	0.45
1:AA:935:A:H2	1:AA:1383:C:N4	2.14	0.45
1:AA:951:G:C2	1:AA:952:U:C2	3.04	0.45
2:AB:224:GLN:C	2:AB:226:ARG:N	2.68	0.45
2:AB:8:LYS:C	2:AB:9:GLU:OE1	2.55	0.45
3:AC:52:LEU:HD12	3:AC:68:VAL:HG12	1.98	0.45
3:AC:70:VAL:O	3:AC:106:VAL:N	2.45	0.45
4:AD:98:GLU:C	4:AD:100:ARG:N	2.69	0.45
4:AD:111:ALA:HB2	4:AD:117:ALA:HA	1.98	0.45
4:AD:5:ILE:CG2	4:AD:6:GLY:N	2.78	0.45
8:AH:7:ALA:HA	8:AH:85:ARG:HD3	1.98	0.45
9:AI:43:ALA:O	9:AI:45:ALA:N	2.49	0.45
10:AJ:28:ARG:NH1	10:AJ:28:ARG:HG2	2.30	0.45
10:AJ:78:ASN:HD21	10:AJ:80:LYS:HB3	1.81	0.45
11:AK:67:ASP:O	11:AK:68:ALA:C	2.55	0.45
12:AL:90:VAL:O	12:AL:91:LYS:C	2.54	0.45
1:AA:667:G:N3	15:AO:49:ASP:OD2	2.49	0.45
17:AQ:67:LYS:O	17:AQ:68:ARG:CB	2.63	0.45
18:AR:37:VAL:HG22	18:AR:38:GLU:OE1	2.16	0.45
1:AA:1014:A:C4	19:AS:34:TRP:CE3	3.04	0.45
19:AS:72:GLY:C	19:AS:74:PHE:H	2.20	0.45
20:AT:9:ASN:HB3	20:AT:13:LEU:HD11	1.99	0.45
22:AV:61:C:O2	22:AV:61:C:C2'	2.64	0.45
22:AV:61:C:H5'	22:AV:62:C:OP2	2.16	0.45
23:AX:12:A:C3'	23:AX:12:A:N3	2.76	0.45
24:AY:20:SER:O	24:AY:122:ARG:HB3	2.17	0.45
28:B3:45:GLY:C	28:B3:47:VAL:H	2.19	0.45
32:B7:43:THR:O	32:B7:45:ALA:N	2.49	0.45
35:BA:1032:A:N1	35:BA:1123:C:N3	2.64	0.45
35:BA:1331:A:O2'	35:BA:1332:G:C8	2.62	0.45
35:BA:1789:A:H5''	38:BD:221:VAL:CG1	2.45	0.45
35:BA:1921:G:C2'	35:BA:1922:G:H5'	2.45	0.45
35:BA:2021:C:C4'	35:BA:2022:U:OP2	2.64	0.45
35:BA:2416:C:OP1	47:BP:64:LYS:O	2.35	0.45
35:BA:2459:A:C6	35:BA:2494:G:N3	2.85	0.45
35:BA:2705:A:C5	35:BA:2706:G:N7	2.85	0.45
35:BA:2758:A:H62	42:BH:67:LEU:CD1	2.25	0.45
35:BA:2809:A:H62	35:BA:2891:G:H2'	1.81	0.45
35:BA:413:C:O2'	35:BA:414:C:H5'	2.16	0.45
35:BA:529:A:N7	35:BA:2041:U:O4	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:535:C:H2'	35:BA:536:A:H8	1.78	0.45
35:BA:576:U:H2'	35:BA:577:G:H8	1.74	0.45
35:BA:823:G:O2'	35:BA:824:A:H5'	2.17	0.45
35:BA:831:G:C5	35:BA:832:G:C8	3.04	0.45
36:BB:42:C:N4	41:BG:91:ARG:HD3	2.31	0.45
36:BB:87:G:C3'	36:BB:88:C:H5''	2.47	0.45
37:BC:14:VAL:HG23	37:BC:32:LEU:CD2	2.47	0.45
37:BC:77:ILE:HB	37:BC:115:ALA:HA	1.96	0.45
38:BD:109:ASP:C	38:BD:109:ASP:OD1	2.55	0.45
38:BD:26:LYS:O	38:BD:27:THR:CB	2.65	0.45
40:BF:170:LEU:HB3	40:BF:173:VAL:CG2	2.45	0.45
40:BF:181:LEU:HD12	40:BF:182:ASN:N	2.27	0.45
40:BF:192:LEU:HD23	40:BF:192:LEU:C	2.37	0.45
40:BF:3:GLU:HA	40:BF:24:LEU:HB3	1.96	0.45
45:BN:111:PRO:O	45:BN:115:ARG:HB2	2.17	0.45
46:BO:39:ILE:CG1	46:BO:60:ALA:O	2.63	0.45
46:BO:67:LYS:HD2	46:BO:68:GLU:OE2	2.16	0.45
47:BP:64:LYS:O	47:BP:65:ARG:C	2.54	0.45
48:BQ:118:LEU:HA	48:BQ:121:ALA:HB3	1.97	0.45
36:BB:92:C:OP1	48:BQ:19:GLY:CA	2.64	0.45
48:BQ:32:TYR:CE2	48:BQ:111:GLU:HG3	2.51	0.45
48:BQ:54:MET:HE3	48:BQ:64:ILE:HD13	1.98	0.45
35:BA:2840:C:O3'	49:BR:53:HIS:NE2	2.50	0.45
49:BR:63:ARG:NH1	49:BR:63:ARG:HB2	2.24	0.45
50:BS:19:LYS:HB3	50:BS:20:ARG:NH2	2.32	0.45
51:BT:100:TYR:O	51:BT:102:ILE:N	2.49	0.45
51:BT:7:ILE:O	51:BT:9:LEU:N	2.49	0.45
52:BU:113:ALA:O	52:BU:115:ALA:N	2.50	0.45
53:BV:4:ILE:CD1	53:BV:39:LEU:O	2.58	0.45
57:BZ:63:ASP:HB3	57:BZ:65:GLN:HG3	1.98	0.45
1:AA:109:A:O3'	1:AA:110:C:C6	2.67	0.45
1:AA:1309:G:C6	1:AA:1310:G:C5	3.04	0.45
1:AA:1431:C:C2	1:AA:1470:G:N2	2.85	0.45
1:AA:1404:C:C1'	1:AA:1499:A:N1	2.79	0.45
1:AA:1514:C:N4	1:AA:1515:C:N4	2.64	0.45
1:AA:924:C:H2'	1:AA:925:G:H8	1.80	0.45
3:AC:108:ASN:HB3	3:AC:111:LEU:HD12	1.97	0.45
3:AC:121:ALA:HB2	3:AC:187:ALA:CB	2.46	0.45
3:AC:83:ARG:CG	3:AC:87:LEU:HD11	2.43	0.45
4:AD:60:GLU:HG2	4:AD:202:LEU:CD1	2.41	0.45
5:AE:96:PRO:HA	5:AE:117:ASP:CG	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:77:PRO:CD	5:AE:142:LEU:HD22	2.45	0.45
10:AJ:12:ASP:HB3	10:AJ:15:THR:OG1	2.16	0.45
11:AK:123:LYS:HG2	11:AK:123:LYS:O	2.16	0.45
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.31	0.45
1:AA:660:G:OP2	15:AO:5:LYS:HD3	2.16	0.45
15:AO:68:ARG:O	15:AO:71:GLN:HB3	2.17	0.45
22:AV:33:U:C6	22:AV:33:U:C3'	2.99	0.45
22:AV:49:G:C2	22:AV:50:U:N1	2.84	0.45
24:AY:146:ARG:HH11	24:AY:146:ARG:CG	2.07	0.45
24:AY:297:THR:OG1	24:AY:383:GLU:OE1	2.35	0.45
24:AY:333:GLN:C	24:AY:335:ARG:H	2.20	0.45
24:AY:360:TYR:CD1	24:AY:360:TYR:N	2.84	0.45
24:AY:398:PHE:HE2	24:AY:428:PHE:CE1	2.35	0.45
28:B3:31:LEU:C	28:B3:33:GLN:H	2.20	0.45
29:B4:9:LEU:CD1	29:B4:25:TYR:HB3	2.46	0.45
30:B5:3:LYS:HE2	35:BA:2611:U:C2'	2.47	0.45
34:B9:30:PRO:C	34:B9:32:HIS:N	2.69	0.45
35:BA:1027:A:C6	35:BA:1126:A:C4	3.04	0.45
35:BA:1125:G:C6	35:BA:1126:A:N6	2.85	0.45
26:B1:41:ARG:NH2	35:BA:1365:A:OP1	2.39	0.45
35:BA:1504:C:O2'	35:BA:1505:C:O5'	2.35	0.45
35:BA:1668:A:C2'	35:BA:1674:G:N7	2.80	0.45
35:BA:1759:A:H2'	35:BA:1760:A:C8	2.52	0.45
35:BA:1826:G:C5	35:BA:1827:C:C5	3.05	0.45
35:BA:1845:G:O2'	35:BA:1846:G:H5'	2.17	0.45
35:BA:2019:A:N6	35:BA:2020:A:N6	2.64	0.45
35:BA:2096:U:H2'	35:BA:2097:C:H6	1.81	0.45
35:BA:2190:G:N3	35:BA:2190:G:H2'	2.32	0.45
35:BA:2265:U:H2'	35:BA:2266:A:N7	2.31	0.45
35:BA:2422:A:C6	35:BA:2424:C:N3	2.85	0.45
35:BA:2686:G:C2	35:BA:2687:U:C2	3.04	0.45
35:BA:1637:A:H4'	35:BA:2711:A:O2'	2.17	0.45
35:BA:272(E):G:O2'	35:BA:272(F):C:H5'	2.16	0.45
35:BA:2762:G:H8	35:BA:2762:G:H5''	1.82	0.45
35:BA:2628:C:O4'	35:BA:2781:A:C4	2.69	0.45
35:BA:2631:G:N2	35:BA:2788:C:H1'	2.31	0.45
35:BA:597:U:H4'	47:BP:15:ARG:CZ	2.46	0.45
35:BA:659:C:O2'	35:BA:660:G:C5'	2.62	0.45
35:BA:701:G:N2	35:BA:732:C:C2	2.84	0.45
35:BA:823:G:C6	35:BA:835:A:C2	3.04	0.45
35:BA:82:G:H8	35:BA:82:G:OP2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:942:G:C6	35:BA:943:U:N3	2.85	0.45
37:BC:222:VAL:O	37:BC:224:ILE:CG2	2.63	0.45
38:BD:131:LEU:HD13	38:BD:135:PHE:CB	2.47	0.45
38:BD:174:ILE:O	38:BD:175:LEU:HD23	2.16	0.45
38:BD:63:ARG:C	38:BD:64:ILE:O	2.55	0.45
39:BE:81:ILE:C	39:BE:82:ARG:O	2.52	0.45
40:BF:153:SER:HA	40:BF:172:TRP:HB2	1.98	0.45
40:BF:4:VAL:HG12	40:BF:4:VAL:O	2.15	0.45
40:BF:82:ILE:HG13	40:BF:83:PHE:H	1.82	0.45
41:BG:143:GLU:O	41:BG:144:ILE:CG2	2.65	0.45
41:BG:55:LYS:O	41:BG:56:ALA:C	2.54	0.45
42:BH:91:GLY:HA2	42:BH:160:LYS:HZ1	1.82	0.45
48:BQ:38:GLU:CD	48:BQ:127:ILE:HB	2.36	0.45
48:BQ:46:GLN:HA	48:BQ:49:ALA:CB	2.47	0.45
49:BR:12:ARG:HB3	49:BR:16:HIS:HD2	1.82	0.45
49:BR:26:LYS:HG2	49:BR:70:LEU:HD22	1.98	0.45
49:BR:67:LEU:HD22	49:BR:76:VAL:HB	1.98	0.45
49:BR:9:LYS:HD2	49:BR:43:GLU:HB2	1.97	0.45
50:BS:25:ARG:HG2	50:BS:25:ARG:NH1	2.30	0.45
51:BT:11:GLU:C	51:BT:13:ARG:N	2.68	0.45
51:BT:63:VAL:N	51:BT:74:ARG:O	2.43	0.45
52:BU:31:SER:CB	52:BU:34:LYS:CB	2.81	0.45
35:BA:1155:A:OP2	52:BU:58:ARG:NH1	2.50	0.45
54:BW:3:ALA:HB3	54:BW:107:LEU:CD1	2.46	0.45
56:BY:45:VAL:CG1	56:BY:60:PHE:HD2	2.29	0.45
57:BZ:35:ARG:NE	57:BZ:35:ARG:CA	2.71	0.45
57:BZ:42:VAL:CG1	57:BZ:43:GLU:N	2.78	0.45
1:AA:1015:A:N6	1:AA:1016:A:C6	2.84	0.45
1:AA:1091:U:N3	1:AA:1095:U:C4	2.84	0.45
1:AA:1200:C:OP1	1:AA:1201:A:C2'	2.64	0.45
1:AA:1286:A:O2'	1:AA:1287:A:OP2	2.31	0.45
1:AA:1308:U:H6	1:AA:1308:U:O5'	1.99	0.45
1:AA:1483:A:H2	35:BA:1960:A:C1'	2.29	0.45
1:AA:32:A:N6	1:AA:33:A:N1	2.65	0.45
1:AA:59:A:C6	1:AA:331:G:N3	2.85	0.45
1:AA:406:G:H1'	1:AA:495:A:N1	2.32	0.45
1:AA:495:A:O2'	1:AA:496:A:P	2.73	0.45
1:AA:519:C:O2'	1:AA:520:A:H5'	2.17	0.45
1:AA:929:G:C2'	1:AA:930:C:H5'	2.47	0.45
1:AA:998:G:C2	1:AA:999:C:C2	3.05	0.45
2:AB:198:ASP:N	2:AB:198:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.17	0.45
2:AB:92:TYR:CD1	2:AB:151:GLY:HA3	2.52	0.45
3:AC:109:PRO:O	3:AC:111:LEU:N	2.48	0.45
3:AC:64:VAL:CG1	3:AC:65:ALA:H	2.26	0.45
3:AC:95:THR:CG2	3:AC:97:LYS:HG3	2.47	0.45
4:AD:101:LEU:C	4:AD:103:ASN:H	2.20	0.45
1:AA:620:C:H4'	4:AD:138:TYR:HD1	1.82	0.45
8:AH:103:VAL:HG21	8:AH:109:ILE:O	2.17	0.45
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.47	0.45
12:AL:105:TYR:C	12:AL:107:ALA:H	2.20	0.45
12:AL:126:LYS:HB3	24:AY:487:ARG:CZ	2.41	0.45
1:AA:1226:C:H5	13:AM:104:ARG:HB2	1.81	0.45
13:AM:29:ARG:NE	13:AM:64:TRP:CD2	2.84	0.45
16:AP:65:GLN:HA	16:AP:66:PRO:HD3	1.70	0.45
19:AS:41:VAL:CB	19:AS:44:MET:HG2	2.44	0.45
19:AS:51:VAL:CB	19:AS:58:VAL:HG22	2.42	0.45
23:AX:17:U:H2'	23:AX:18:G:H5'	1.98	0.45
24:AY:200:THR:O	24:AY:201:ILE:C	2.55	0.45
24:AY:171:TRP:CZ2	24:AY:234:VAL:HG13	2.51	0.45
24:AY:25:GLY:CA	24:AY:29:ILE:HG13	2.43	0.45
24:AY:295:LYS:O	24:AY:323:GLY:CA	2.63	0.45
24:AY:401:ILE:HD12	24:AY:461:ALA:HB3	1.98	0.45
24:AY:513:LEU:O	24:AY:517:ARG:CB	2.65	0.45
24:AY:6:TYR:O	24:AY:360:TYR:CE2	2.70	0.45
25:B0:20:ARG:HD2	25:B0:20:ARG:H	1.81	0.45
27:B2:65:ASN:O	27:B2:67:LYS:N	2.50	0.45
28:B3:8:LEU:HD22	28:B3:31:LEU:CA	2.46	0.45
29:B4:7:PRO:HD2	41:BG:65:GLY:O	2.17	0.45
30:B5:57:VAL:HG12	30:B5:58:LEU:CD1	2.36	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N1	2.31	0.45
32:B7:37:LYS:NZ	32:B7:39:ARG:NH2	2.64	0.45
33:B8:8:LYS:O	33:B8:11:LYS:HB3	2.17	0.45
34:B9:27:CYS:SG	34:B9:32:HIS:ND1	2.90	0.45
34:B9:5:ALA:HB1	35:BA:1125:G:O2'	2.17	0.45
35:BA:1054:A:C2	35:BA:1055:G:N7	2.85	0.45
35:BA:1313:U:C4'	35:BA:1333:C:OP2	2.64	0.45
35:BA:1358:G:O2'	35:BA:1359:A:H5''	2.15	0.45
35:BA:1392:A:N6	35:BA:1393:A:N6	2.64	0.45
35:BA:1823:G:C6	35:BA:1824:G:C5	3.05	0.45
35:BA:1931:U:O2'	35:BA:1932:A:H5'	2.16	0.45
35:BA:2100:G:H5'	35:BA:2101:G:OP2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2189:U:C3'	35:BA:2190:G:H4'	2.46	0.45
35:BA:2234:G:H2'	35:BA:2235:G:H8	1.82	0.45
35:BA:2346:A:H5'	35:BA:2383:G:H1'	1.97	0.45
35:BA:242:G:O3'	35:BA:243:U:H6	2.00	0.45
35:BA:2509:G:C2'	35:BA:2510:C:H5'	2.47	0.45
35:BA:2580:U:H5''	39:BE:131:ALA:HB2	1.99	0.45
35:BA:2770:G:C5'	35:BA:2771:C:OP2	2.64	0.45
35:BA:2794:C:H42	35:BA:2801(A):A:N6	2.15	0.45
35:BA:307:G:C2'	35:BA:309:G:OP2	2.61	0.45
35:BA:682:G:HO2'	35:BA:683:C:H5'	1.77	0.45
35:BA:715:G:C2	35:BA:716:A:C4	3.05	0.45
37:BC:100:ILE:O	37:BC:100:ILE:CG2	2.62	0.45
38:BD:176:ARG:HA	38:BD:182:LEU:HG	1.98	0.45
38:BD:211:ARG:C	38:BD:213:ARG:N	2.70	0.45
38:BD:88:ARG:CD	38:BD:88:ARG:N	2.80	0.45
38:BD:91:ARG:HD3	38:BD:198:ASN:CB	2.47	0.45
40:BF:160:ASN:HD21	40:BF:162:LEU:HD13	1.81	0.45
41:BG:78:SER:C	41:BG:80:PHE:N	2.69	0.45
41:BG:71:THR:CB	41:BG:89:GLY:O	2.62	0.45
42:BH:54:ARG:CD	42:BH:54:ARG:H	2.30	0.45
46:BO:64:ARG:CZ	51:BT:70:VAL:HG21	2.46	0.45
49:BR:87:TYR:HE2	49:BR:117:VAL:CG1	2.29	0.45
49:BR:26:LYS:CE	49:BR:71:GLN:H	2.30	0.45
51:BT:24:PRO:HB2	51:BT:94:ALA:CB	2.46	0.45
51:BT:28:VAL:HG23	51:BT:47:GLY:O	2.16	0.45
30:B5:28:PRO:HG2	54:BW:35:ILE:HD12	1.98	0.45
54:BW:46:PHE:O	54:BW:50:VAL:HG12	2.16	0.45
27:B2:30:ARG:NH2	55:BX:5:TYR:OH	2.49	0.45
56:BY:64:GLU:O	56:BY:65:ALA:CB	2.65	0.45
57:BZ:151:HIS:HA	57:BZ:171:ILE:CD1	2.47	0.45
57:BZ:7:ALA:HB3	57:BZ:61:LEU:HD22	1.97	0.45
57:BZ:63:ASP:CB	57:BZ:65:GLN:HG3	2.47	0.45
1:AA:1301:U:O2'	1:AA:1302:U:O5'	2.27	0.45
1:AA:1342:C:H4'	9:AI:125:TYR:H	1.81	0.45
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.16	0.45
1:AA:166:G:H2'	1:AA:167:G:H8	1.81	0.45
1:AA:220:G:N2	1:AA:221:C:H1'	2.31	0.45
1:AA:420:U:H1'	1:AA:424:G:N2	2.32	0.45
1:AA:55:A:C2'	1:AA:56:U:H5'	2.47	0.45
1:AA:56:U:H2'	1:AA:57:G:C8	2.51	0.45
1:AA:758:G:H4'	1:AA:880:C:C4'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:774:G:N3	1:AA:775:G:C8	2.85	0.45
1:AA:992:U:O2'	1:AA:993:G:O5'	2.35	0.45
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.47	0.45
2:AB:27:LYS:HG3	2:AB:27:LYS:H	1.42	0.45
9:AI:112:LYS:O	9:AI:112:LYS:HD3	2.17	0.45
9:AI:47:LEU:HG	9:AI:50:LEU:CD1	2.45	0.45
11:AK:24:SER:OG	11:AK:27:ASN:O	2.30	0.45
12:AL:126:LYS:HB2	24:AY:487:ARG:NE	2.23	0.45
16:AP:60:LEU:CD1	16:AP:79:VAL:HG12	2.38	0.45
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.15	0.45
18:AR:59:SER:HG	18:AR:62:GLU:CD	2.19	0.45
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.50	0.45
20:AT:45:GLN:O	20:AT:45:GLN:NE2	2.49	0.45
1:AA:186:C:O2'	20:AT:85:MET:SD	2.72	0.45
21:AU:18:TYR:CE1	21:AU:24:ARG:NH1	2.85	0.45
24:AY:10:VAL:HG13	24:AY:360:TYR:CB	2.46	0.45
24:AY:207:VAL:O	24:AY:208:LYS:O	2.35	0.45
24:AY:29:ILE:HG12	24:AY:259:ALA:HB2	1.97	0.45
25:B0:72:ARG:CB	25:B0:75:LEU:HB3	2.47	0.45
30:B5:33:CYS:O	30:B5:35:GLU:N	2.45	0.45
35:BA:976:C:H4'	35:BA:1156:A:H62	1.81	0.45
35:BA:1206:G:H2'	35:BA:1207:C:C6	2.51	0.45
35:BA:131:G:H2'	35:BA:132:G:H8	1.80	0.45
35:BA:1394:U:H3'	35:BA:1394:U:H6	1.82	0.45
35:BA:1444:G:H2'	35:BA:1445(A):C:C5	2.51	0.45
35:BA:1636:C:H2'	35:BA:1637:A:C8	2.51	0.45
35:BA:1636:C:O4'	35:BA:1761:C:H1'	2.16	0.45
35:BA:1668:A:C8	35:BA:1674:G:C6	3.05	0.45
35:BA:1676:A:C5	35:BA:1677:A:C5	3.05	0.45
35:BA:1779:U:C5	35:BA:1783:A:N7	2.85	0.45
35:BA:1267:U:C5	35:BA:2012:G:N2	2.85	0.45
35:BA:2131:G:H3'	35:BA:2131:G:OP2	2.17	0.45
25:B0:18:ALA:HB1	35:BA:2271:G:H5''	1.97	0.45
35:BA:2325:G:C5	35:BA:2326:C:C5	3.05	0.45
35:BA:2453:A:H2	35:BA:2504:U:H3	1.64	0.45
35:BA:247:G:C8	35:BA:249:C:C6	3.05	0.45
35:BA:2574:G:C2	35:BA:2575:C:C2	3.05	0.45
35:BA:2793:G:O2'	35:BA:2794:C:H5''	2.17	0.45
35:BA:220:G:H2'	35:BA:427:U:O4	2.16	0.45
35:BA:65:C:O2'	35:BA:456:C:O2	2.33	0.45
35:BA:587:C:N4	47:BP:33:ARG:CB	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:614:U:C2'	35:BA:614(A):U:H5'	2.46	0.45
36:BB:42:C:O2	41:BG:66:GLN:NE2	2.50	0.45
36:BB:67:G:C2	36:BB:68:C:C6	3.05	0.45
37:BC:213:TYR:HD2	37:BC:221:SER:CB	2.30	0.45
38:BD:158:ALA:O	38:BD:161:THR:OG1	2.34	0.45
39:BE:111:ARG:HD2	39:BE:111:ARG:N	2.31	0.45
39:BE:11:MET:HA	39:BE:23:VAL:O	2.16	0.45
35:BA:1257:C:C1'	40:BF:83:PHE:HA	2.46	0.45
35:BA:2685:G:C4'	46:BO:67:LYS:HZ2	2.30	0.45
46:BO:71:ARG:HB3	46:BO:72:PRO:HD2	1.99	0.45
47:BP:98:GLU:O	47:BP:102:ARG:NH2	2.50	0.45
47:BP:107:LYS:C	47:BP:109:GLY:N	2.70	0.45
47:BP:113:LYS:HB2	47:BP:129:ALA:CB	2.28	0.45
48:BQ:14:ARG:HG3	48:BQ:14:ARG:H	1.36	0.45
35:BA:863:A:P	48:BQ:22:LYS:HB2	2.57	0.45
48:BQ:48:GLU:O	48:BQ:49:ALA:C	2.55	0.45
49:BR:27:SER:O	49:BR:30:THR:CG2	2.65	0.45
49:BR:24:GLN:NE2	49:BR:36:THR:HG21	2.32	0.45
51:BT:102:ILE:O	51:BT:102:ILE:CG1	2.65	0.45
51:BT:32:TYR:CG	51:BT:33:LYS:N	2.85	0.45
52:BU:12:ARG:HD2	52:BU:13:LYS:HZ3	1.81	0.45
52:BU:61:TRP:CH2	52:BU:94:ASN:OD1	2.70	0.45
56:BY:26:LYS:N	56:BY:40:GLU:OE2	2.47	0.45
1:AA:1048:G:C2	1:AA:1050:G:C5	3.05	0.45
1:AA:865:A:H5'	1:AA:1078:U:O4	2.16	0.45
1:AA:1309:G:C6	1:AA:1329:A:C6	3.05	0.45
1:AA:189(C):C:O5'	1:AA:189(C):C:H6	2.00	0.45
1:AA:276:G:C6	1:AA:277:C:C5	3.04	0.45
1:AA:633:G:H3'	1:AA:634:C:C5	2.52	0.45
1:AA:587:G:N2	1:AA:754:C:OP2	2.48	0.45
1:AA:883:C:N3	1:AA:884:U:O4	2.50	0.45
1:AA:955:U:O2'	1:AA:956:U:H5'	2.17	0.45
2:AB:177:ALA:HB3	2:AB:184:VAL:CG2	2.47	0.45
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.16	0.45
4:AD:31:CYS:O	4:AD:32:ALA:HB2	2.16	0.45
5:AE:110:LEU:HA	5:AE:113:ALA:HB2	1.98	0.45
5:AE:150:ARG:HB2	5:AE:150:ARG:NH1	2.32	0.45
5:AE:24:ARG:CG	5:AE:24:ARG:NH1	2.77	0.45
7:AG:43:PHE:O	7:AG:46:ALA:N	2.49	0.45
8:AH:14:ARG:HG3	8:AH:83:ILE:CG2	2.46	0.45
10:AJ:16:LEU:CD1	10:AJ:16:LEU:C	2.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:86:GLY:H	11:AK:112:THR:HG23	1.81	0.45
12:AL:119:LYS:O	12:AL:120:TYR:CG	2.70	0.45
13:AM:78:ILE:CG2	13:AM:79:LYS:N	2.80	0.45
13:AM:89:GLY:C	13:AM:90:LEU:O	2.53	0.45
16:AP:18:ARG:O	16:AP:20:VAL:HG12	2.17	0.45
18:AR:47:THR:C	18:AR:83:GLU:HG2	2.37	0.45
22:AV:22:G:N3	22:AV:22:G:H2'	2.32	0.45
22:AV:4:G:H2'	22:AV:5:G:C8	2.51	0.45
24:AY:115:ALA:HB1	24:AY:148:ILE:CB	2.46	0.45
24:AY:119:VAL:HG22	24:AY:124:ARG:HG3	1.93	0.45
24:AY:158:VAL:HG12	24:AY:164:ILE:HG22	1.99	0.45
24:AY:187:LYS:O	24:AY:188:ASP:C	2.54	0.45
24:AY:189:GLU:HB2	24:AY:206:ILE:HG22	1.98	0.45
24:AY:231:LEU:C	24:AY:231:LEU:HD12	2.37	0.45
24:AY:347:THR:HB	24:AY:365:LEU:HG	1.99	0.45
24:AY:70:ILE:HG23	24:AY:95:PHE:CD1	2.52	0.45
25:B0:36:ILE:HG22	25:B0:60:PHE:HB3	1.98	0.45
26:B1:11:ARG:NH1	26:B1:12:PRO:HD2	2.31	0.45
27:B2:3:LEU:HD23	27:B2:3:LEU:C	2.38	0.45
31:B6:15:GLU:OE2	31:B6:41:PRO:HB2	2.17	0.45
33:B8:35:GLN:O	33:B8:35:GLN:CD	2.55	0.45
35:BA:1097:U:O2'	44:BK:6:UNK:CA	2.52	0.45
35:BA:143:G:H1'	55:BX:37:THR:CG2	2.23	0.45
35:BA:1651:G:H2'	35:BA:1652:A:H8	1.81	0.45
35:BA:1742:G:H5'	35:BA:1743:C:OP2	2.17	0.45
35:BA:1815:A:H8	35:BA:1815:A:OP1	2.00	0.45
35:BA:1982:C:N4	35:BA:1983:C:N4	2.65	0.45
35:BA:2007:C:H4'	35:BA:2824:C:HO2'	1.82	0.45
35:BA:2028:U:O2'	35:BA:2029:G:H5'	2.16	0.45
35:BA:2080:G:H2'	35:BA:2081:C:C6	2.52	0.45
35:BA:2082:A:H2'	35:BA:2083:G:O4'	2.17	0.45
35:BA:2099:U:O2	35:BA:2191:G:N1	2.50	0.45
35:BA:2222:G:H1'	38:BD:151:LYS:NZ	2.31	0.45
22:AV:76:A:O2'	35:BA:2395:C:C4	2.65	0.45
35:BA:2742:C:H2'	35:BA:2743:C:H6	1.81	0.45
35:BA:307:G:H22	35:BA:310:A:H5''	1.81	0.45
35:BA:447:A:C4'	35:BA:449:A:N7	2.80	0.45
35:BA:481:G:H1'	35:BA:506:G:N2	2.31	0.45
35:BA:613:G:H8	35:BA:613:G:C5'	2.12	0.45
35:BA:903:C:H6	35:BA:903:C:O5'	2.00	0.45
35:BA:993:G:O4'	53:BV:87:HIS:NE2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:167:LYS:O	37:BC:167:LYS:CE	2.65	0.45
37:BC:64:LEU:CD1	37:BC:175:VAL:O	2.58	0.45
38:BD:136:ILE:HG23	38:BD:140:THR:HG21	1.98	0.45
38:BD:155:LEU:N	38:BD:155:LEU:HD12	2.31	0.45
38:BD:183:ARG:HG3	38:BD:270:ILE:CG2	2.47	0.45
38:BD:227:ASN:ND2	38:BD:228:PRO:HD2	2.31	0.45
38:BD:84:TYR:CG	38:BD:85:ASP:N	2.84	0.45
39:BE:105:THR:CG2	39:BE:106:GLY:H	2.27	0.45
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.70	0.45
45:BN:93:THR:CG2	45:BN:93:THR:O	2.65	0.45
46:BO:23:ARG:HB3	46:BO:40:VAL:CG2	2.43	0.45
46:BO:71:ARG:HG3	46:BO:75:SER:OG	2.16	0.45
47:BP:93:GLY:N	47:BP:123:LEU:HD12	2.32	0.45
49:BR:20:LEU:HA	49:BR:23:ASN:HB2	1.97	0.45
50:BS:73:LEU:O	50:BS:74:ALA:C	2.55	0.45
51:BT:88:ILE:HG22	51:BT:89:VAL:N	2.32	0.45
45:BN:6:PRO:CG	52:BU:64:ARG:HH22	2.29	0.45
56:BY:23:ARG:HG2	56:BY:23:ARG:NH1	2.27	0.45
56:BY:62:GLU:HB3	56:BY:63:LYS:H	1.64	0.45
57:BZ:166:SER:HB2	57:BZ:168:GLU:CB	2.46	0.45
57:BZ:42:VAL:C	57:BZ:44:PHE:N	2.67	0.45
1:AA:1010:G:C2	1:AA:1020:U:C2	3.04	0.45
1:AA:1236:A:C2	1:AA:1237:C:C2	3.05	0.45
1:AA:337:C:C2	1:AA:338:A:C8	3.04	0.45
1:AA:449:C:H2'	1:AA:450:G:O4'	2.17	0.45
1:AA:55:A:O2'	1:AA:56:U:H5'	2.17	0.45
1:AA:598:U:H2'	1:AA:599:C:O4'	2.17	0.45
1:AA:679:C:N4	1:AA:680:C:N4	2.65	0.45
2:AB:90:MET:HA	2:AB:91:PRO:HD3	1.84	0.45
2:AB:92:TYR:OH	2:AB:150:SER:HB2	2.17	0.45
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.97	0.45
4:AD:118:ARG:NH1	4:AD:136:PRO:CB	2.80	0.45
4:AD:202:LEU:O	4:AD:205:GLU:N	2.50	0.45
5:AE:148:VAL:HG21	8:AH:107:LEU:HD13	1.99	0.45
1:AA:1398:A:N6	5:AE:22:GLY:H	2.06	0.45
5:AE:41:VAL:CG2	5:AE:67:VAL:HG13	2.47	0.45
7:AG:137:LYS:HB3	7:AG:137:LYS:HE2	1.60	0.45
8:AH:46:LYS:HG2	8:AH:64:LYS:HE2	1.98	0.45
10:AJ:50:ILE:N	10:AJ:60:ARG:HG2	2.32	0.45
11:AK:91:ARG:O	11:AK:94:ALA:CB	2.64	0.45
13:AM:68:GLY:C	13:AM:70:LEU:N	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:41:ARG:HG3	14:AN:42:ILE:N	2.32	0.45
16:AP:57:ARG:HA	16:AP:60:LEU:CD1	2.43	0.45
20:AT:62:LEU:HA	20:AT:65:LYS:HG3	1.99	0.45
22:AV:58:A:C2	22:AV:61:C:C5	3.05	0.45
24:AY:171:TRP:CA	24:AY:182:VAL:HG13	2.46	0.45
24:AY:282:ARG:HD3	24:AY:319:ARG:NH2	2.23	0.45
24:AY:323:GLY:O	24:AY:324:LYS:C	2.54	0.45
25:B0:75:LEU:HD23	25:B0:75:LEU:O	2.17	0.45
29:B4:37:SER:C	29:B4:39:CYS:H	2.17	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N3	2.31	0.45
30:B5:6:VAL:HG22	30:B5:7:PRO:HD2	1.99	0.45
31:B6:22:ALA:O	31:B6:23:THR:OG1	2.29	0.45
35:BA:1022:G:C6	35:BA:1140:C:C2	3.05	0.45
35:BA:1027:A:C2	35:BA:1028:A:N7	2.84	0.45
35:BA:1023:U:C4'	35:BA:1123:C:OP1	2.65	0.45
35:BA:1140:C:C5'	35:BA:1141:U:OP2	2.64	0.45
35:BA:1144:G:H2'	35:BA:1145:C:H6	1.79	0.45
28:B3:30:ARG:CG	35:BA:1184:G:OP1	2.65	0.45
35:BA:1381:G:O2'	35:BA:1382:G:H5'	2.16	0.45
35:BA:1553:A:C5	35:BA:1555:G:C5	3.05	0.45
35:BA:1612:C:H2'	35:BA:1613:G:O5'	2.17	0.45
35:BA:1614:A:H2	35:BA:1615:C:C5	2.34	0.45
35:BA:1691:C:O5'	35:BA:1691:C:H6	1.99	0.45
35:BA:1721:G:H1'	35:BA:1742:G:H1	1.82	0.45
35:BA:1894:C:O2	35:BA:1894:C:C2'	2.65	0.45
35:BA:1902:C:C5	35:BA:1903:G:C8	3.05	0.45
35:BA:1910:G:N2	35:BA:1911:U:O2	2.49	0.45
35:BA:1693:U:O4	35:BA:1976:U:O2'	2.35	0.45
35:BA:2677:G:O2'	35:BA:2678:C:H5'	2.17	0.45
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.46	0.45
35:BA:2681:C:C5	35:BA:2727:G:C2	3.00	0.45
35:BA:2850:A:O5'	35:BA:2850:A:H8	2.00	0.45
35:BA:317:G:H2'	35:BA:318:C:C6	2.52	0.45
35:BA:80:G:H1'	35:BA:346:A:C6	2.52	0.45
35:BA:292:C:H42	35:BA:348:G:H1	1.65	0.45
35:BA:36:G:C2	35:BA:445:C:N3	2.85	0.45
35:BA:627:A:H61	35:BA:636:G:C2'	2.30	0.45
35:BA:748:G:H8	35:BA:750:A:OP2	1.99	0.45
37:BC:189:ILE:O	37:BC:193:ILE:HG13	2.17	0.45
37:BC:81:GLU:C	37:BC:83:ILE:H	2.19	0.45
38:BD:28:GLU:N	38:BD:29:PRO:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:61:LEU:CD1	38:BD:62:TYR:N	2.80	0.45
39:BE:65:GLY:HA2	39:BE:70:ALA:CB	2.46	0.45
40:BF:192:LEU:HD23	40:BF:192:LEU:O	2.17	0.45
41:BG:80:PHE:CE1	41:BG:81:LYS:NZ	2.84	0.45
42:BH:132:ARG:C	42:BH:133:VAL:HG23	2.37	0.45
45:BN:95:PRO:O	45:BN:98:VAL:CB	2.64	0.45
51:BT:73:GLU:OE1	51:BT:103:ARG:NH1	2.49	0.45
52:BU:14:HIS:O	52:BU:16:LYS:N	2.50	0.45
54:BW:14:PRO:CA	54:BW:101:SER:HB3	2.46	0.45
54:BW:14:PRO:HA	54:BW:101:SER:CB	2.47	0.45
55:BX:9:LEU:HG	55:BX:30:VAL:HA	1.99	0.45
55:BX:56:THR:O	55:BX:57:LEU:HB3	2.17	0.45
56:BY:22:GLY:O	56:BY:23:ARG:HG2	2.16	0.45
1:AA:1091:U:C2	1:AA:1095:U:C4	3.04	0.45
1:AA:1151:A:C5	1:AA:1152:A:N7	2.85	0.45
1:AA:1157:A:C2	1:AA:1181:G:C4	3.05	0.45
1:AA:125:U:H2'	1:AA:126:G:H8	1.81	0.45
1:AA:1269:A:N6	1:AA:1312:G:O2'	2.49	0.45
1:AA:1328:C:C2	1:AA:1329:A:C8	3.05	0.45
1:AA:134:A:C5	1:AA:135:C:C4	3.05	0.45
1:AA:1465:C:C5	1:AA:1466:C:C4	3.05	0.45
1:AA:1430:C:C2	1:AA:1471:G:N2	2.85	0.45
1:AA:354:G:H2'	1:AA:354:G:N3	2.32	0.45
1:AA:560:U:H4'	1:AA:561:U:H5''	1.99	0.45
1:AA:677:U:O2'	1:AA:678:U:H5'	2.17	0.45
1:AA:713:G:C2'	1:AA:714:G:C8	2.84	0.45
1:AA:889:A:O4'	1:AA:891:U:C6	2.70	0.45
2:AB:101:MET:CB	2:AB:102:LEU:HD12	2.42	0.45
2:AB:137:ARG:O	2:AB:140:HIS:HB2	2.17	0.45
2:AB:208:ILE:H	2:AB:208:ILE:HG13	1.40	0.45
3:AC:52:LEU:HG	3:AC:52:LEU:O	2.16	0.45
4:AD:127:THR:HB	4:AD:147:ALA:O	2.17	0.45
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.64	0.45
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.84	0.45
1:AA:1348:U:C5'	9:AI:110:GLU:OE1	2.64	0.45
9:AI:36:TYR:CD2	9:AI:37:PHE:CE1	3.05	0.45
11:AK:65:ALA:O	11:AK:68:ALA:HB3	2.17	0.45
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.32	0.45
1:AA:1226:C:C5	13:AM:104:ARG:HA	2.52	0.45
13:AM:96:LEU:C	13:AM:110:ARG:HD3	2.37	0.45
17:AQ:67:LYS:HG2	17:AQ:68:ARG:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:62:TRP:CG	18:AR:35:ARG:NH1	2.85	0.45
22:AV:74:C:C2'	22:AV:75:C:H5'	2.47	0.45
24:AY:154:LEU:C	24:AY:156:ASP:N	2.71	0.45
24:AY:25:GLY:O	24:AY:27:THR:N	2.50	0.45
24:AY:32:LYS:NZ	24:AY:260:LEU:HD12	2.32	0.45
25:B0:34:GLY:HA3	35:BA:2352:A:N1	2.32	0.45
28:B3:45:GLY:O	28:B3:47:VAL:N	2.50	0.45
30:B5:52:TYR:CD2	30:B5:52:TYR:O	2.69	0.45
30:B5:6:VAL:CG2	30:B5:7:PRO:HD2	2.47	0.45
31:B6:15:GLU:O	31:B6:16:CYS:C	2.55	0.45
32:B7:30:VAL:HG22	32:B7:33:ARG:HH22	1.80	0.45
35:BA:1002:G:H2'	35:BA:1003:G:O5'	2.16	0.45
35:BA:1022:G:N7	45:BN:66:LYS:HE3	2.32	0.45
35:BA:1024:G:C3'	35:BA:1025:G:C5'	2.89	0.45
35:BA:1063:G:H8	35:BA:1063:G:OP2	1.99	0.45
35:BA:1124:C:O2'	35:BA:1125:G:H5'	2.17	0.45
35:BA:1469:A:C2	35:BA:1470:G:H1'	2.52	0.45
35:BA:154:G:C4	35:BA:154(A):C:C5	3.05	0.45
35:BA:1770:G:C5	35:BA:1771:C:C5	3.05	0.45
35:BA:186:G:O5'	35:BA:186:G:H8	2.00	0.45
35:BA:1906:G:N3	35:BA:1907:G:H1'	2.32	0.45
35:BA:1999:C:H2'	35:BA:2000:G:O4'	2.17	0.45
35:BA:2000:G:C2	35:BA:2001:A:C8	3.05	0.45
35:BA:2411:A:O2'	35:BA:2412:A:H5'	2.16	0.45
35:BA:2450:A:C2	35:BA:2451:A:C5	3.05	0.45
35:BA:2788:C:O3'	35:BA:2809:A:O2'	2.34	0.45
35:BA:338:G:O2'	35:BA:339:U:H5'	2.16	0.45
35:BA:729:G:C4	38:BD:208:LYS:HD2	2.52	0.45
35:BA:85:G:H5"	35:BA:85:G:H8	1.81	0.45
36:BB:77:U:H4'	57:BZ:84:GLU:OE2	2.17	0.45
37:BC:213:TYR:OH	37:BC:223:ARG:HD2	2.16	0.45
37:BC:38:ASP:OD2	37:BC:177:LYS:HE2	2.17	0.45
38:BD:260:ARG:HG2	38:BD:261:LYS:N	2.32	0.45
35:BA:2631:G:N2	39:BE:61:ARG:HH12	2.14	0.45
40:BF:117:ARG:HD2	40:BF:191:ARG:HA	1.97	0.45
40:BF:3:GLU:O	40:BF:19:GLU:HB2	2.17	0.45
40:BF:37:VAL:C	40:BF:39:TRP:N	2.69	0.45
41:BG:143:GLU:O	41:BG:144:ILE:HG22	2.16	0.45
41:BG:147:ASP:O	41:BG:147:ASP:OD1	2.35	0.45
45:BN:22:THR:HA	45:BN:61:ARG:HB2	1.98	0.45
48:BQ:72:LYS:HB3	48:BQ:94:VAL:CG2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:96:ARG:HD3	49:BR:98:LEU:CD1	2.36	0.45
36:BB:50:G:OP1	50:BS:63:THR:CG2	2.65	0.45
52:BU:98:LEU:O	52:BU:100:VAL:N	2.50	0.45
52:BU:84:LYS:HD3	52:BU:84:LYS:HA	1.76	0.45
52:BU:90:VAL:HB	52:BU:91:ASP:H	1.50	0.45
56:BY:54:LYS:O	56:BY:55:TYR:HB2	2.17	0.45
56:BY:84:ARG:CG	56:BY:85:VAL:H	2.25	0.45
57:BZ:17:ALA:O	57:BZ:20:ARG:N	2.50	0.45
57:BZ:24:LEU:HD23	57:BZ:25:PRO:O	2.17	0.45
57:BZ:27:VAL:O	57:BZ:87:ASP:HA	2.17	0.45
57:BZ:63:ASP:O	57:BZ:64:GLY:C	2.55	0.45
1:AA:122:G:H2'	1:AA:123:C:H6	1.76	0.44
1:AA:1314:C:C4	1:AA:1315:U:C5	3.06	0.44
1:AA:1330:U:O4	1:AA:1331:G:C2	2.70	0.44
1:AA:1526:G:O2'	1:AA:1527:C:H5'	2.17	0.44
1:AA:1530:G:H2'	1:AA:1531:A:C8	2.51	0.44
1:AA:172:A:C8	1:AA:172:A:H5''	2.42	0.44
1:AA:221:C:H2'	1:AA:222:U:H6	1.81	0.44
1:AA:327:A:H3'	1:AA:328:C:H5''	1.99	0.44
1:AA:575:G:H4'	1:AA:576:G:C5'	2.45	0.44
1:AA:691:G:C6	1:AA:692:U:O4	2.70	0.44
2:AB:164:VAL:HG11	2:AB:167:PRO:N	2.32	0.44
2:AB:166:ASP:HA	2:AB:167:PRO:HD2	1.82	0.44
2:AB:97:TRP:HZ3	2:AB:172:ILE:HB	1.82	0.44
4:AD:36:ARG:N	4:AD:37:PRO:CD	2.77	0.44
4:AD:59:ARG:HA	4:AD:59:ARG:NH2	2.27	0.44
5:AE:108:ALA:O	5:AE:112:LEU:HD12	2.17	0.44
14:AN:31:ARG:C	14:AN:32:SER:OG	2.54	0.44
15:AO:70:LEU:O	15:AO:74:ASP:C	2.55	0.44
20:AT:48:LYS:O	20:AT:52:ALA:N	2.50	0.44
24:AY:202:GLN:O	24:AY:203:GLU:C	2.54	0.44
24:AY:25:GLY:O	24:AY:26:LYS:C	2.55	0.44
24:AY:201:ILE:CA	24:AY:262:ASN:HD22	2.27	0.44
1:AA:55:A:C5	24:AY:311:HIS:CE1	3.05	0.44
24:AY:484:GLU:O	24:AY:488:LYS:N	2.50	0.44
25:B0:36:ILE:HG12	35:BA:2354:G:O2'	2.17	0.44
26:B1:18:ILE:HG21	26:B1:20:ARG:NH2	2.31	0.44
27:B2:31:GLU:OE1	27:B2:31:GLU:HA	2.16	0.44
35:BA:1095:A:H2'	35:BA:1096:A:C8	2.42	0.44
35:BA:1047:G:N2	35:BA:1110:G:H2'	2.31	0.44
35:BA:1252:G:O2'	35:BA:1253:A:C8	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1310:G:H2'	35:BA:1311:G:C5'	2.32	0.44
35:BA:1355:G:O2'	35:BA:1356:G:H5'	2.17	0.44
35:BA:1447:G:C4'	35:BA:1545:A:C4'	2.95	0.44
35:BA:1542:A:H8	35:BA:1542:A:H3'	1.81	0.44
35:BA:1611:C:N4	35:BA:1620:G:H1	2.15	0.44
35:BA:1747(A):G:N2	35:BA:1748:G:C8	2.85	0.44
35:BA:1798:U:N1	35:BA:1822:G:N2	2.66	0.44
35:BA:1822:G:O2'	35:BA:1823:G:H5'	2.16	0.44
35:BA:2050:C:N4	35:BA:2051:A:N6	2.65	0.44
35:BA:2072:G:C8	35:BA:2072:G:O5'	2.70	0.44
35:BA:2289:G:O5'	35:BA:2289:G:H8	2.00	0.44
35:BA:2472:G:H1'	35:BA:2479:G:H22	1.83	0.44
35:BA:2679:A:OP1	39:BE:160:TYR:OH	2.34	0.44
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.17	0.44
35:BA:489:G:H22	35:BA:1321:A:P	2.40	0.44
35:BA:527:C:O2	35:BA:2779:U:C6	2.71	0.44
35:BA:572:A:H2'	35:BA:573:G:H1'	1.94	0.44
35:BA:598:G:C6	35:BA:599:G:C5	3.05	0.44
35:BA:830:G:C8	35:BA:2448:A:C2	3.05	0.44
35:BA:873:G:C2'	35:BA:874:G:H5'	2.47	0.44
35:BA:940:G:C2'	35:BA:941:A:H5"	2.47	0.44
35:BA:962:G:H2'	35:BA:963:U:H6	1.81	0.44
37:BC:117:PRO:HG3	37:BC:145:VAL:HG13	1.99	0.44
37:BC:155:GLU:O	37:BC:160:ARG:HB2	2.18	0.44
37:BC:73:ARG:HH21	37:BC:110:PHE:HA	1.81	0.44
38:BD:267:SER:O	38:BD:268:ARG:CB	2.65	0.44
38:BD:44:ASN:N	38:BD:44:ASN:OD1	2.48	0.44
39:BE:143:ASN:HD22	39:BE:143:ASN:N	2.13	0.44
39:BE:167:VAL:O	39:BE:170:LEU:HD11	2.16	0.44
40:BF:107:LYS:O	40:BF:206:ILE:CG2	2.66	0.44
41:BG:23:PHE:CD1	41:BG:23:PHE:N	2.85	0.44
41:BG:43:LEU:C	41:BG:45:GLU:HG2	2.38	0.44
41:BG:67:LYS:H	41:BG:67:LYS:CD	2.29	0.44
42:BH:125:VAL:HG13	42:BH:131:VAL:CG1	2.46	0.44
45:BN:15:LEU:C	45:BN:15:LEU:HD13	2.37	0.44
45:BN:59:LYS:O	45:BN:60:ILE:O	2.35	0.44
47:BP:97:PRO:O	47:BP:99:LEU:N	2.50	0.44
48:BQ:114:ALA:C	48:BQ:118:LEU:HD12	2.34	0.44
48:BQ:117:ALA:C	48:BQ:119:ARG:H	2.21	0.44
49:BR:20:LEU:O	49:BR:21:TYR:C	2.55	0.44
35:BA:2840:C:H5"	49:BR:53:HIS:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:14:VAL:CG1	50:BS:16:ASN:HD22	2.30	0.44
50:BS:26:LEU:CD2	50:BS:27:SER:O	2.65	0.44
50:BS:53:SER:C	50:BS:55:ALA:H	2.14	0.44
51:BT:56:GLY:O	51:BT:57:PHE:C	2.56	0.44
53:BV:28:GLU:O	53:BV:61:VAL:CB	2.65	0.44
54:BW:47:VAL:O	54:BW:51:LEU:HB2	2.16	0.44
55:BX:12:VAL:O	55:BX:13:LEU:HB2	2.16	0.44
57:BZ:167:PRO:HG2	57:BZ:167:PRO:O	2.17	0.44
57:BZ:17:ALA:HA	57:BZ:20:ARG:CG	2.46	0.44
57:BZ:10:ARG:H	57:BZ:37:VAL:HA	1.82	0.44
57:BZ:40:ASP:OD1	57:BZ:42:VAL:CG1	2.61	0.44
1:AA:1055:A:O2'	3:AC:156:ARG:HD2	2.18	0.44
1:AA:1127:G:H1	1:AA:1145:C:N4	2.15	0.44
1:AA:1148:U:C2'	1:AA:1149:C:H5'	2.47	0.44
1:AA:1183:A:H3'	1:AA:1184:G:C5'	2.47	0.44
1:AA:1325:C:C4	1:AA:1326:C:N4	2.85	0.44
1:AA:1325:C:H6	1:AA:1325:C:H5''	1.81	0.44
1:AA:1406:U:H2'	1:AA:1407:C:H5'	1.98	0.44
1:AA:14:U:O2	1:AA:16:A:H3'	2.16	0.44
1:AA:20:U:N3	1:AA:21:G:C4	2.86	0.44
1:AA:405:U:H3'	1:AA:406:G:C5'	2.24	0.44
1:AA:519:C:N4	1:AA:520:A:C2	2.85	0.44
1:AA:720:C:H2'	1:AA:721:G:N7	2.33	0.44
1:AA:80:G:C3'	1:AA:81:U:C5'	2.87	0.44
1:AA:996:A:C2	1:AA:997:U:N3	2.85	0.44
2:AB:178:ARG:CG	2:AB:178:ARG:HH11	2.20	0.44
2:AB:75:LYS:C	2:AB:75:LYS:HD3	2.36	0.44
2:AB:97:TRP:NE1	2:AB:101:MET:HG3	2.32	0.44
4:AD:187:ARG:O	4:AD:189:PRO:HD3	2.16	0.44
6:AF:3:ARG:NH1	6:AF:38:GLU:OE2	2.46	0.44
7:AG:95:ARG:O	7:AG:98:SER:HB2	2.17	0.44
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.47	0.44
15:AO:81:LEU:O	15:AO:82:ILE:C	2.55	0.44
18:AR:67:ALA:O	18:AR:70:ILE:HB	2.17	0.44
19:AS:75:ALA:O	19:AS:76:PRO:C	2.55	0.44
22:AV:68:C:N4	22:AV:69:C:N4	2.65	0.44
24:AY:184:HIS:HE1	24:AY:191:TYR:CE1	2.22	0.44
24:AY:390:ILE:CG2	24:AY:390:ILE:O	2.62	0.44
24:AY:419:LEU:HD21	24:AY:424:ALA:CB	2.47	0.44
26:B1:92:LYS:HD2	26:B1:93:GLU:N	2.33	0.44
27:B2:20:GLU:OE1	27:B2:20:GLU:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B2:29:LYS:HD3	27:B2:57:ILE:HD12	1.99	0.44
28:B3:47:VAL:CA	28:B3:50:VAL:HG22	2.29	0.44
29:B4:4:GLY:N	29:B4:6:HIS:HE1	2.14	0.44
32:B7:10:ARG:CD	35:BA:770:G:H5''	2.47	0.44
33:B8:49:VAL:CG1	33:B8:53:PRO:HD3	2.47	0.44
34:B9:8:LYS:CE	35:BA:1032:A:OP1	2.65	0.44
35:BA:1069:A:H5'	44:BK:9:UNK:CB	2.47	0.44
35:BA:1095:A:C8	35:BA:1096:A:N7	2.85	0.44
35:BA:9:U:O2	35:BA:10:G:C8	2.70	0.44
35:BA:1155:A:N3	35:BA:1157:G:C8	2.85	0.44
35:BA:1305:C:C2	35:BA:1306:C:C6	3.05	0.44
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.16	0.44
35:BA:1668:A:H2'	35:BA:1674:G:N7	2.31	0.44
35:BA:1947:C:N3	35:BA:1960:A:C2	2.85	0.44
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.82	0.44
35:BA:2577:A:C5'	35:BA:2578:G:H5'	2.44	0.44
35:BA:2685:G:C4'	46:BO:67:LYS:NZ	2.80	0.44
35:BA:1638:C:H4'	35:BA:2710:C:O2	2.17	0.44
35:BA:2776:A:H4'	35:BA:2777:G:H5''	1.99	0.44
35:BA:2796:U:H3'	35:BA:2799:C:H5'	1.99	0.44
35:BA:459:U:H2'	35:BA:460:A:H8	1.80	0.44
32:B7:33:ARG:CZ	35:BA:467:G:OP1	2.65	0.44
35:BA:493:G:H2'	35:BA:494:G:O4'	2.18	0.44
35:BA:685:A:H2	35:BA:688:U:O2	1.99	0.44
35:BA:752:A:O2'	35:BA:753:C:OP2	2.35	0.44
35:BA:880:G:H2'	35:BA:881:G:H8	1.81	0.44
35:BA:954:G:N3	35:BA:2274:A:H2	2.15	0.44
35:BA:954:G:H2'	35:BA:955:C:H5'	1.99	0.44
37:BC:213:TYR:HD2	37:BC:221:SER:HB3	1.81	0.44
37:BC:14:VAL:HG22	37:BC:28:LEU:HD11	1.99	0.44
38:BD:211:ARG:O	38:BD:213:ARG:N	2.50	0.44
38:BD:244:ARG:HA	38:BD:245:PRO:HA	1.61	0.44
39:BE:63:LEU:O	39:BE:63:LEU:CD2	2.59	0.44
39:BE:6:GLY:HA2	39:BE:51:PHE:CE2	2.52	0.44
41:BG:19:LEU:O	41:BG:22:ARG:CB	2.65	0.44
42:BH:121:ILE:HD13	42:BH:121:ILE:HA	1.72	0.44
42:BH:151:ILE:N	42:BH:151:ILE:CD1	2.71	0.44
42:BH:71:LEU:CD2	42:BH:72:ILE:HD12	2.43	0.44
43:BJ:25:UNK:CB	43:BJ:85:LEU:HB3	2.47	0.44
46:BO:33:ALA:CA	46:BO:37:ASP:OD2	2.64	0.44
48:BQ:121:ALA:O	48:BQ:125:LEU:HD23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:42:ILE:HD12	48:BQ:42:ILE:HA	1.75	0.44
35:BA:906:G:C2'	48:BQ:67:ARG:HH22	2.30	0.44
49:BR:45:ARG:O	49:BR:47:PHE:N	2.50	0.44
50:BS:106:ARG:O	50:BS:107:GLU:HB3	2.18	0.44
50:BS:33:LYS:C	50:BS:34:HIS:HD2	2.21	0.44
50:BS:36:TYR:HD1	50:BS:36:TYR:H	1.45	0.44
50:BS:61:ASN:O	50:BS:62:LYS:CB	2.64	0.44
36:BB:50:G:OP1	50:BS:63:THR:HG23	2.17	0.44
51:BT:108:ARG:O	51:BT:110:ILE:N	2.49	0.44
51:BT:124:ASP:CB	51:BT:125:ARG:HH12	2.23	0.44
53:BV:79:VAL:O	53:BV:80:GLN:HB2	2.16	0.44
54:BW:110:LYS:HD2	54:BW:110:LYS:HA	1.85	0.44
56:BY:54:LYS:HE3	56:BY:55:TYR:HE2	1.79	0.44
1:AA:1030(C):G:H2'	1:AA:1030(D):A:H8	1.81	0.44
1:AA:108:G:O6	20:AT:15:ARG:HD2	2.17	0.44
1:AA:1139:G:N2	1:AA:1143:G:N1	2.65	0.44
1:AA:1092:A:C4	1:AA:1183:A:N6	2.85	0.44
1:AA:1190:G:C5'	1:AA:1191:A:OP1	2.66	0.44
1:AA:1474:G:C6	1:AA:1475:G:N7	2.85	0.44
1:AA:1495:U:C2'	1:AA:1496:C:C5'	2.88	0.44
1:AA:220:G:O2'	1:AA:221:C:H5'	2.16	0.44
1:AA:298:A:C6	1:AA:299:G:C2	3.05	0.44
1:AA:504:C:H2'	1:AA:511:C:H5	1.83	0.44
2:AB:112:VAL:O	2:AB:113:HIS:C	2.56	0.44
2:AB:44:LEU:O	2:AB:45:GLN:C	2.56	0.44
3:AC:6:HIS:NE2	3:AC:8:ILE:HB	2.31	0.44
4:AD:140:VAL:HG12	4:AD:141:ARG:N	2.31	0.44
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.48	0.44
7:AG:103:TRP:HB3	7:AG:134:ALA:HB1	1.99	0.44
8:AH:121:ASP:O	8:AH:125:ARG:HB2	2.17	0.44
9:AI:94:ALA:O	9:AI:95:LYS:CB	2.65	0.44
11:AK:32:ILE:O	11:AK:39:PRO:HA	2.16	0.44
12:AL:77:LEU:HD21	12:AL:106:ASP:O	2.17	0.44
13:AM:82:MET:HG2	13:AM:82:MET:O	2.17	0.44
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.99	0.44
14:AN:40:CYS:C	14:AN:42:ILE:N	2.71	0.44
20:AT:65:LYS:O	20:AT:68:LYS:HG3	2.17	0.44
22:AV:36:U:C2'	22:AV:37:A:C5'	2.95	0.44
24:AY:146:ARG:HH22	24:AY:177:LYS:HE2	1.83	0.44
24:AY:178:LEU:O	24:AY:179:PHE:C	2.55	0.44
24:AY:9:GLU:HB2	24:AY:360:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:303:ILE:HD12	24:AY:375:ILE:HD13	1.98	0.44
24:AY:443:VAL:CG2	24:AY:444:LEU:N	2.59	0.44
31:B6:15:GLU:HG2	31:B6:18:ARG:NH1	2.33	0.44
35:BA:1138:G:H8	35:BA:1138:G:O5'	2.01	0.44
35:BA:1020:A:N1	35:BA:1141:U:H1'	2.33	0.44
35:BA:1173:G:H5'	35:BA:1174:A:O5'	2.17	0.44
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.46	0.44
35:BA:1363:C:O2'	35:BA:1364:G:H5'	2.17	0.44
35:BA:1370:C:H3'	35:BA:1371:G:C8	2.52	0.44
35:BA:1493:C:C2'	35:BA:1493:C:O2	2.65	0.44
35:BA:1609:A:C2	35:BA:1616:A:C2	3.05	0.44
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	2.47	0.44
35:BA:1759:A:O2'	35:BA:1760:A:H5'	2.18	0.44
35:BA:1858:G:O2'	35:BA:1859:A:C8	2.70	0.44
35:BA:1906:G:C8	35:BA:1929:G:C5	3.05	0.44
35:BA:1953:A:H1'	35:BA:2560:C:H1'	1.99	0.44
35:BA:2014:A:H2'	35:BA:2015:A:C5	2.44	0.44
35:BA:2276:G:H2'	35:BA:2276:G:N3	2.31	0.44
35:BA:2385:C:N3	35:BA:2386:C:C5	2.86	0.44
35:BA:2673:G:H5'	35:BA:2673:G:C8	2.50	0.44
35:BA:2822:G:OP1	39:BE:112:GLY:N	2.27	0.44
35:BA:310:A:H1'	35:BA:311:A:H2'	1.98	0.44
35:BA:58:G:N2	35:BA:70:G:C4	2.85	0.44
35:BA:662:G:C2	35:BA:663:G:C8	3.05	0.44
32:B7:11:LYS:HE2	35:BA:686:G:C2	2.53	0.44
35:BA:864:G:N2	35:BA:913:U:O2	2.50	0.44
37:BC:62:VAL:HG11	37:BC:192:PHE:HD1	1.81	0.44
37:BC:43:VAL:CG2	37:BC:214:VAL:HG22	2.40	0.44
37:BC:217:THR:HG22	37:BC:218:MET:H	1.79	0.44
37:BC:21:THR:HG22	37:BC:225:ASN:HB2	2.00	0.44
38:BD:72:LYS:HZ3	38:BD:101:GLU:HB3	1.82	0.44
39:BE:27:LEU:CD1	39:BE:180:ASN:O	2.66	0.44
39:BE:82:ARG:HH11	39:BE:82:ARG:CG	2.29	0.44
40:BF:32:LEU:HD21	40:BF:109:GLY:HA3	1.99	0.44
40:BF:7:TYR:CD2	40:BF:16:GLY:HA3	2.52	0.44
41:BG:139:LEU:C	41:BG:141:PHE:N	2.70	0.44
41:BG:57:ALA:O	41:BG:60:LEU:HB3	2.16	0.44
45:BN:67:LEU:HD23	45:BN:87:LEU:HD12	1.99	0.44
46:BO:11:ALA:O	46:BO:98:VAL:CA	2.65	0.44
48:BQ:135:ASP:HB2	48:BQ:136:ALA:H	1.43	0.44
49:BR:24:GLN:O	49:BR:28:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:94:ALA:C	51:BT:96:ARG:H	2.21	0.44
52:BU:101:ARG:HH11	52:BU:101:ARG:CG	2.30	0.44
57:BZ:24:LEU:CD1	57:BZ:41:LEU:HA	2.45	0.44
57:BZ:8:TYR:CB	57:BZ:38:TYR:CE2	3.00	0.44
57:BZ:91:LEU:HD22	57:BZ:130:PRO:CB	2.46	0.44
1:AA:1009:G:H1	1:AA:1020:U:H3	1.65	0.44
1:AA:1034:G:N2	1:AA:1035:A:C5	2.85	0.44
1:AA:989:C:O2	1:AA:1217:C:O2	2.36	0.44
1:AA:979:C:N4	1:AA:1360:A:H62	2.12	0.44
1:AA:1377:A:P	7:AG:94:ARG:HH22	2.41	0.44
1:AA:1418:A:H8	1:AA:1419:G:O4'	2.01	0.44
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.18	0.44
1:AA:346:G:N3	1:AA:346:G:C2'	2.80	0.44
1:AA:395:C:C2'	1:AA:396:G:H5'	2.47	0.44
1:AA:426:G:H4'	4:AD:41:GLY:O	2.18	0.44
1:AA:455:C:H2'	1:AA:456:C:C6	2.51	0.44
1:AA:580:U:H4'	15:AO:58:MET:SD	2.57	0.44
1:AA:603:U:O2'	1:AA:604:G:H5'	2.17	0.44
1:AA:607:A:H2'	1:AA:608:A:C8	2.38	0.44
1:AA:714:G:C6	1:AA:715:A:N6	2.85	0.44
1:AA:855:G:H2'	1:AA:856:C:C6	2.51	0.44
2:AB:108:ILE:H	2:AB:108:ILE:HG12	1.40	0.44
2:AB:168:THR:HG23	2:AB:192:SER:CA	2.47	0.44
2:AB:41:ILE:CG2	2:AB:42:ILE:N	2.81	0.44
2:AB:54:THR:O	2:AB:58:ILE:HG13	2.17	0.44
2:AB:70:PHE:C	2:AB:71:VAL:CG2	2.86	0.44
10:AJ:15:THR:O	10:AJ:19:SER:HB3	2.18	0.44
10:AJ:60:ARG:O	10:AJ:61:GLU:HB2	2.17	0.44
15:AO:3:ILE:HG13	15:AO:8:LYS:CG	2.47	0.44
16:AP:55:ARG:NH2	16:AP:58:TYR:CG	2.81	0.44
17:AQ:40:LYS:HG2	17:AQ:42:TYR:CE2	2.52	0.44
20:AT:10:LEU:O	20:AT:13:LEU:HG	2.18	0.44
20:AT:36:LEU:HD13	20:AT:36:LEU:C	2.37	0.44
21:AU:16:GLY:O	21:AU:17:THR:CG2	2.65	0.44
24:AY:131:ARG:HH12	24:AY:162:LEU:HD13	1.81	0.44
26:B1:14:VAL:HG21	35:BA:189:G:OP2	2.17	0.44
26:B1:37:ILE:HD12	26:B1:37:ILE:C	2.37	0.44
32:B7:11:LYS:O	32:B7:12:ARG:C	2.55	0.44
32:B7:24:THR:N	32:B7:28:ARG:NH2	2.66	0.44
33:B8:8:LYS:O	33:B8:9:GLY:C	2.56	0.44
35:BA:1028:A:C2	35:BA:1029:A:C5	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1142(A):A:H5'	35:BA:1142(A):A:C8	2.53	0.44
35:BA:1202:C:C5	35:BA:1203:G:N7	2.85	0.44
35:BA:1272:A:N7	35:BA:1618:A:C1'	2.81	0.44
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.53	0.44
35:BA:1463:C:H2'	35:BA:1464:C:H6	1.77	0.44
35:BA:1528:A:N6	35:BA:1544:A:C2	2.86	0.44
35:BA:1414:G:N1	35:BA:1588:C:N4	2.55	0.44
35:BA:1625:C:H2'	35:BA:1626:G:H5'	1.93	0.44
35:BA:1858:G:O2'	35:BA:1859:A:H8	2.00	0.44
35:BA:1921:G:H2'	35:BA:1922:G:H8	1.82	0.44
35:BA:1947:C:C2	35:BA:1960:A:C2	3.06	0.44
35:BA:2088:G:C6	35:BA:2089:U:C4	3.06	0.44
35:BA:2280:G:C6	35:BA:2281:C:C4	3.05	0.44
35:BA:2418:A:C6	35:BA:2419:U:C4	3.06	0.44
35:BA:2452:C:O2'	35:BA:2453:A:H5'	2.17	0.44
35:BA:24:G:H2'	35:BA:25:U:O4'	2.18	0.44
35:BA:2624:G:H8	35:BA:2624:G:O5'	2.00	0.44
35:BA:2727:G:C2	35:BA:2728:U:C2	3.06	0.44
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.32	0.44
35:BA:942:G:C5'	47:BP:36:LYS:N	2.80	0.44
37:BC:143:GLY:O	37:BC:152:ILE:HG21	2.17	0.44
37:BC:168:THR:O	37:BC:169:GLY:C	2.55	0.44
37:BC:86:ALA:HB1	37:BC:153:ILE:HD12	1.99	0.44
38:BD:14:ARG:CG	38:BD:14:ARG:HH11	2.15	0.44
38:BD:92:ILE:CA	38:BD:106:ILE:HA	2.47	0.44
39:BE:105:THR:CG2	39:BE:106:GLY:N	2.80	0.44
39:BE:114:ALA:HB3	39:BE:160:TYR:CB	2.32	0.44
39:BE:190:GLY:O	39:BE:191:PRO:O	2.34	0.44
40:BF:154:VAL:CG1	40:BF:191:ARG:HB3	2.46	0.44
41:BG:121:ASN:OD1	41:BG:122:PRO:HD2	2.17	0.44
41:BG:71:THR:HG22	41:BG:72:ARG:O	2.17	0.44
24:AY:177:LYS:HZ1	42:BH:110:SER:HB3	1.82	0.44
42:BH:18:GLU:HB2	42:BH:25:LYS:CB	2.47	0.44
44:BK:131:UNK:O	44:BK:136:UNK:CB	2.66	0.44
46:BO:17:ARG:NH2	46:BO:99:PHE:CD2	2.86	0.44
47:BP:55:ARG:O	47:BP:57:THR:N	2.50	0.44
48:BQ:135:ASP:C	48:BQ:137:TYR:H	2.21	0.44
56:BY:36:ALA:O	56:BY:37:VAL:HG13	2.17	0.44
57:BZ:126:VAL:O	57:BZ:126:VAL:HG23	2.16	0.44
57:BZ:37:VAL:O	57:BZ:38:TYR:HB3	2.18	0.44
57:BZ:82:ARG:NH1	57:BZ:82:ARG:HG2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1314:C:O2'	1:AA:1315:U:C5'	2.64	0.44
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.83	0.44
1:AA:141:A:H1'	1:AA:182:U:C2	2.52	0.44
1:AA:515:G:H2'	1:AA:516:U:O4'	2.18	0.44
1:AA:765:G:O6	1:AA:812:C:C6	2.70	0.44
1:AA:875:C:H2'	1:AA:876:G:O4'	2.16	0.44
2:AB:102:LEU:O	2:AB:103:THR:C	2.55	0.44
2:AB:60:ASP:HB3	2:AB:64:ARG:NH2	2.31	0.44
4:AD:155:LEU:C	4:AD:157:LEU:N	2.71	0.44
4:AD:190:ASP:OD2	4:AD:192:GLU:HB2	2.17	0.44
3:AC:132:ARG:HH22	4:AD:47:ARG:HH22	1.65	0.44
4:AD:58:LEU:C	4:AD:58:LEU:HD13	2.38	0.44
5:AE:84:PHE:CE2	5:AE:133:TYR:CD2	3.06	0.44
7:AG:136:LYS:C	7:AG:138:LYS:N	2.71	0.44
9:AI:34:ASN:O	9:AI:38:GLN:CB	2.64	0.44
9:AI:46:ALA:O	9:AI:47:LEU:HD12	2.17	0.44
1:AA:1151:A:H4'	10:AJ:70:ARG:HH12	1.82	0.44
10:AJ:84:GLN:H	10:AJ:84:GLN:HG3	1.59	0.44
1:AA:909:A:P	12:AL:21:LYS:HZ2	2.40	0.44
12:AL:98:TYR:N	12:AL:98:TYR:CD1	2.85	0.44
13:AM:54:VAL:HG22	13:AM:57:ARG:NH1	2.33	0.44
10:AJ:64:GLU:O	14:AN:56:VAL:HA	2.18	0.44
16:AP:49:LEU:HA	16:AP:49:LEU:HD12	1.74	0.44
19:AS:30:LEU:HD21	19:AS:32:LYS:NZ	2.31	0.44
24:AY:210:LEU:C	24:AY:212:ASN:N	2.71	0.44
24:AY:257:GLY:HA3	24:AY:264:GLY:HA3	2.00	0.44
24:AY:13:ARG:CD	24:AY:363:ASP:CG	2.75	0.44
24:AY:492:GLN:HB3	24:AY:504:ILE:CB	2.47	0.44
24:AY:87:LEU:O	24:AY:88:ASP:C	2.55	0.44
25:B0:47:PRO:HG2	25:B0:53:MET:HE2	1.99	0.44
25:B0:70:GLN:HG2	25:B0:71:ASP:N	2.33	0.44
26:B1:7:ILE:HD13	26:B1:69:LYS:HG2	1.98	0.44
27:B2:25:VAL:CG1	27:B2:57:ILE:HD12	2.48	0.44
30:B5:2:ALA:HA	35:BA:2015:A:H1'	2.00	0.44
30:B5:54:GLY:O	30:B5:56:LYS:HG2	2.18	0.44
30:B5:59:GLU:CG	30:B5:59:GLU:O	2.65	0.44
33:B8:32:LEU:O	33:B8:33:ASN:O	2.35	0.44
35:BA:1020:A:C2	35:BA:1141:U:C2	3.05	0.44
35:BA:1112:G:C2	35:BA:1113:U:C2	3.05	0.44
35:BA:70:G:H5''	35:BA:112:U:O2	2.18	0.44
35:BA:1247:A:O2'	35:BA:1248:G:C5'	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1275:A:O2'	35:BA:1645:G:N2	2.45	0.44
35:BA:1670:C:OP2	35:BA:1671:U:C4	2.70	0.44
35:BA:1747(A):G:C3'	35:BA:1748:G:H5''	2.48	0.44
35:BA:1799:G:C6	35:BA:1819:A:C8	3.05	0.44
35:BA:184:C:H4'	35:BA:217:G:N2	2.33	0.44
35:BA:2097:C:C2	35:BA:2193:G:C2	3.05	0.44
35:BA:221:A:H4'	35:BA:222:A:C5'	2.48	0.44
35:BA:917:A:H3'	35:BA:2268:A:H61	1.81	0.44
35:BA:2511:U:O2	35:BA:2578:G:C6	2.70	0.44
35:BA:2666:C:H3'	35:BA:2667:C:C6	2.52	0.44
35:BA:2689:U:O2'	49:BR:14:SER:HB2	2.17	0.44
35:BA:2873:A:H3'	35:BA:2874:C:C6	2.53	0.44
35:BA:292:C:C2'	35:BA:293:U:H5'	2.47	0.44
35:BA:363(E):U:C2'	35:BA:363(F):A:O4'	2.66	0.44
35:BA:473:G:O2'	35:BA:474:G:H5'	2.18	0.44
35:BA:496:G:H1'	54:BW:61:ASN:ND2	2.33	0.44
35:BA:523:C:H2'	35:BA:524:U:O4'	2.17	0.44
35:BA:572:A:C3'	35:BA:573:G:O4'	2.65	0.44
35:BA:690:G:H21	38:BD:43:ARG:NH2	2.13	0.44
35:BA:696:G:N3	35:BA:696:G:C2'	2.79	0.44
35:BA:863:A:H2'	35:BA:864:G:H8	1.82	0.44
37:BC:6:ARG:CZ	37:BC:10:LEU:HD21	2.46	0.44
37:BC:181:PRO:HG2	37:BC:184:LYS:HB2	1.99	0.44
37:BC:62:VAL:HG12	37:BC:161:ILE:HD11	1.98	0.44
38:BD:116:GLN:HG3	38:BD:116:GLN:O	2.17	0.44
39:BE:203:LYS:O	39:BE:203:LYS:HG3	2.16	0.44
41:BG:111:LEU:H	41:BG:112:PRO:CD	2.31	0.44
41:BG:172:LEU:CD2	41:BG:173:LEU:HD23	2.48	0.44
42:BH:92:ILE:HD12	42:BH:95:ARG:HH21	1.83	0.44
35:BA:1084:A:P	43:BJ:55:UNK:HA	2.57	0.44
35:BA:1139:G:C5'	45:BN:70:LYS:NZ	2.80	0.44
47:BP:75:ILE:CD1	47:BP:75:ILE:H	2.31	0.44
35:BA:1243:G:H1'	47:BP:8:PRO:O	2.17	0.44
48:BQ:120:ILE:HA	48:BQ:123:HIS:HD2	1.83	0.44
35:BA:2469:A:HO2'	48:BQ:56:ARG:HD2	1.82	0.44
49:BR:76:VAL:HG22	49:BR:80:PHE:HE2	1.64	0.44
50:BS:61:ASN:O	50:BS:62:LYS:HG3	2.17	0.44
50:BS:89:ARG:CZ	50:BS:91:PRO:HG2	2.48	0.44
51:BT:118:ARG:HA	51:BT:121:ILE:HG22	1.99	0.44
55:BX:57:LEU:HD11	55:BX:78:LYS:HE3	1.99	0.44
55:BX:7:VAL:O	55:BX:30:VAL:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:45:VAL:HG11	56:BY:60:PHE:CD2	2.50	0.44
1:AA:1238:A:N3	1:AA:1238:A:H2'	2.31	0.44
1:AA:297:G:N2	1:AA:300:A:OP2	2.51	0.44
1:AA:320:C:H2'	1:AA:321:A:H8	1.77	0.44
1:AA:321:A:O3'	1:AA:1436:U:H5'	2.18	0.44
1:AA:662:G:N2	1:AA:663:A:C2	2.86	0.44
1:AA:673:G:H2'	1:AA:674:G:H8	1.63	0.44
1:AA:695:A:H2'	1:AA:696:A:C8	2.53	0.44
1:AA:828:A:C3'	1:AA:828:A:C8	3.01	0.44
2:AB:235:SER:HB2	2:AB:236:TYR:HD1	1.82	0.44
2:AB:36:ARG:HB3	2:AB:41:ILE:CD1	2.46	0.44
2:AB:47:THR:O	2:AB:51:LEU:CD1	2.54	0.44
2:AB:76:GLN:O	2:AB:80:ILE:CD1	2.65	0.44
2:AB:95:GLN:C	2:AB:96:ARG:HD2	2.37	0.44
3:AC:28:GLN:O	3:AC:31:HIS:HB2	2.17	0.44
3:AC:58:GLU:O	3:AC:65:ALA:N	2.50	0.44
7:AG:108:ALA:HB2	7:AG:123:GLU:HB3	1.99	0.44
7:AG:27:ILE:CG2	7:AG:27:ILE:O	2.65	0.44
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.32	0.44
9:AI:104:ARG:HH11	9:AI:104:ARG:CG	2.17	0.44
12:AL:102:ARG:NH2	12:AL:110:VAL:CG2	2.80	0.44
13:AM:12:ASN:O	13:AM:44:ARG:HD2	2.17	0.44
13:AM:70:LEU:CA	13:AM:73:GLU:CB	2.95	0.44
14:AN:3:ARG:O	14:AN:3:ARG:HG2	2.17	0.44
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.18	0.44
19:AS:51:VAL:N	19:AS:58:VAL:HG22	2.32	0.44
19:AS:58:VAL:C	19:AS:60:VAL:H	2.20	0.44
22:AV:59:A:H2'	22:AV:60:U:O4'	2.17	0.44
24:AY:341:VAL:O	24:AY:341:VAL:HG12	2.15	0.44
24:AY:425:VAL:CG1	24:AY:445:GLN:CG	2.88	0.44
25:B0:82:ARG:HA	25:B0:83:PRO:HD3	1.71	0.44
26:B1:44:PRO:CB	26:B1:46:LEU:HD23	2.47	0.44
27:B2:41:ILE:CG1	27:B2:42:GLY:H	2.27	0.44
33:B8:64:TYR:CE2	35:BA:625:G:OP1	2.71	0.44
35:BA:1057:A:H2'	35:BA:1058:G:C5'	2.48	0.44
35:BA:1416:G:C2	35:BA:1417:C:C4	3.06	0.44
35:BA:1517:G:H8	35:BA:1517:G:C5'	2.31	0.44
35:BA:1833:U:N3	35:BA:1834:U:C5	2.86	0.44
35:BA:182:A:C2	35:BA:183:C:C2	3.06	0.44
35:BA:1903:G:OP1	38:BD:241:PRO:O	2.34	0.44
35:BA:1915:U:H6	35:BA:1915:U:H3'	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2076:U:O2	35:BA:2076:U:C2'	2.66	0.44
35:BA:2306:C:OP2	35:BA:2307:G:C8	2.70	0.44
35:BA:2332:U:C4'	35:BA:2336:A:N6	2.80	0.44
35:BA:2533:A:H2'	35:BA:2534:A:O4'	2.17	0.44
35:BA:2652:C:C2	35:BA:2669:G:C2	3.05	0.44
35:BA:2668:G:C2'	35:BA:2669:G:H5'	2.47	0.44
35:BA:2687:U:H2'	35:BA:2688:U:O4'	2.17	0.44
35:BA:2711:A:H3'	35:BA:2712:U:H5'	1.99	0.44
35:BA:271(J):C:O2	35:BA:271(M):G:O6	2.36	0.44
35:BA:271(P):C:C2'	35:BA:271(Q):G:H5'	2.47	0.44
35:BA:332:A:O2'	35:BA:333:G:P	2.76	0.44
35:BA:447:A:C6	35:BA:454:A:C8	3.05	0.44
35:BA:528:A:H3'	35:BA:528:A:C8	2.52	0.44
35:BA:736:C:C2	35:BA:737:C:C5	3.06	0.44
35:BA:962:G:H2'	35:BA:963:U:C6	2.53	0.44
35:BA:948:G:H1	35:BA:969:U:H3	1.65	0.44
35:BA:980:A:C4	35:BA:1136:G:O4'	2.71	0.44
36:BB:80:U:C2'	36:BB:81:G:H21	2.24	0.44
37:BC:22:ILE:HG22	37:BC:186:ALA:HB1	1.99	0.44
37:BC:47:LEU:CD2	37:BC:58:VAL:HG21	2.46	0.44
37:BC:67:GLY:HA2	37:BC:159:GLY:HA3	2.00	0.44
37:BC:79:LYS:HD3	37:BC:119:VAL:HG11	2.00	0.44
38:BD:129:ASN:N	38:BD:193:VAL:HG11	2.32	0.44
38:BD:137:PRO:HD2	38:BD:140:THR:HG21	1.98	0.44
38:BD:147:LEU:HD12	38:BD:155:LEU:HD13	2.00	0.44
38:BD:177:LEU:CG	38:BD:181:GLU:O	2.50	0.44
35:BA:1820:U:C4	38:BD:202:LYS:HD3	2.52	0.44
38:BD:31:LYS:HG3	38:BD:33:LEU:H	1.82	0.44
39:BE:120:TRP:CE3	39:BE:155:LYS:NZ	2.74	0.44
39:BE:163:GLU:HG3	39:BE:164:ARG:O	2.17	0.44
35:BA:2638:G:P	39:BE:82:ARG:NH2	2.91	0.44
39:BE:49:LEU:HD11	39:BE:91:VAL:HG23	1.97	0.44
40:BF:158:THR:C	40:BF:160:ASN:N	2.71	0.44
42:BH:133:VAL:CG1	42:BH:134:SER:N	2.76	0.44
42:BH:18:GLU:HB2	42:BH:25:LYS:CG	2.47	0.44
45:BN:30:ILE:O	45:BN:34:LEU:HD22	2.18	0.44
46:BO:13:ASN:OD1	46:BO:95:GLY:HA3	2.17	0.44
40:BF:188:ARG:CA	47:BP:7:ARG:HD2	2.32	0.44
48:BQ:35:VAL:O	48:BQ:130:LYS:N	2.49	0.44
48:BQ:44:ALA:O	48:BQ:45:GLN:C	2.56	0.44
49:BR:18:LEU:HD11	49:BR:22:ARG:CZ	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:95:LEU:HA	52:BU:95:LEU:HD23	1.73	0.44
52:BU:99:ALA:HB2	52:BU:106:PHE:CE1	2.53	0.44
53:BV:16:PRO:O	53:BV:96:ILE:CG1	2.37	0.44
53:BV:58:VAL:CG1	53:BV:59:ALA:N	2.71	0.44
1:AA:1119:C:H2'	1:AA:1120:G:H8	1.82	0.44
1:AA:1375:A:C2'	1:AA:1376:U:O4'	2.63	0.44
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.53	0.44
1:AA:1489:G:O2'	1:AA:1490:C:H5'	2.18	0.44
1:AA:1410:G:C5	1:AA:1491:G:N2	2.86	0.44
1:AA:777:A:C2	1:AA:778:G:C4	3.05	0.44
1:AA:834:C:C2	1:AA:853:G:N2	2.85	0.44
1:AA:828:A:C5	1:AA:859:A:C8	3.05	0.44
1:AA:88:A:C2	1:AA:89:C:C5	3.06	0.44
1:AA:968:A:O2'	1:AA:969:A:OP1	2.31	0.44
2:AB:30:ARG:HH21	2:AB:194:PRO:CG	2.30	0.44
3:AC:116:VAL:O	3:AC:120:VAL:HG23	2.17	0.44
3:AC:138:VAL:HB	3:AC:151:VAL:HG23	2.00	0.44
4:AD:100:ARG:HG2	4:AD:102:ASP:OD1	2.17	0.44
4:AD:152:SER:O	4:AD:155:LEU:N	2.45	0.44
4:AD:166:LYS:C	4:AD:168:ARG:H	2.21	0.44
4:AD:18:LYS:HE2	4:AD:31:CYS:CB	2.47	0.44
4:AD:95:GLY:O	4:AD:99:SER:N	2.41	0.44
5:AE:128:PRO:HB2	5:AE:129:ILE:CD1	2.46	0.44
5:AE:131:ILE:O	5:AE:135:THR:HB	2.17	0.44
5:AE:78:HIS:CD2	5:AE:78:HIS:N	2.86	0.44
6:AF:61:LEU:HD22	6:AF:63:TYR:CZ	2.52	0.44
8:AH:112:LEU:O	8:AH:118:VAL:HG13	2.16	0.44
9:AI:15:ALA:HB2	9:AI:65:VAL:HG23	1.99	0.44
10:AJ:4:ILE:HB	10:AJ:74:ILE:HG13	2.00	0.44
11:AK:19:ALA:O	11:AK:82:VAL:HG23	2.18	0.44
11:AK:98:LEU:HA	11:AK:98:LEU:HD23	1.74	0.44
13:AM:86:CYS:O	13:AM:87:TYR:C	2.54	0.44
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.33	0.44
16:AP:36:ILE:O	16:AP:51:VAL:HG13	2.17	0.44
19:AS:61:TYR:CD1	35:BA:887:A:H5'	2.52	0.44
24:AY:119:VAL:HG12	24:AY:119:VAL:O	2.17	0.44
24:AY:276:ALA:HA	24:AY:277:PRO:HD3	1.78	0.44
24:AY:333:GLN:C	24:AY:335:ARG:N	2.71	0.44
24:AY:452:ARG:C	24:AY:454:LYS:N	2.69	0.44
24:AY:507:SER:OG	24:AY:510:ASN:HB2	2.18	0.44
27:B2:17:SER:OG	27:B2:20:GLU:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B3:30:ARG:HD2	35:BA:1184:G:OP2	2.18	0.44
30:B5:17:ASP:O	30:B5:20:ARG:N	2.51	0.44
32:B7:35:ARG:HG2	32:B7:35:ARG:NH1	2.33	0.44
35:BA:1125:G:H3'	35:BA:1126:A:H8	1.82	0.44
35:BA:1197:G:H2'	35:BA:1198:U:C6	2.53	0.44
35:BA:1240:U:C2'	35:BA:1241:A:OP2	2.66	0.44
35:BA:1331:A:H2'	35:BA:1333:C:C5	2.53	0.44
35:BA:1381:G:H2'	35:BA:1382:G:H8	1.82	0.44
35:BA:142:A:H1'	35:BA:1408:C:C1'	2.47	0.44
35:BA:1645:G:H5''	35:BA:1646:C:O4'	2.18	0.44
35:BA:1754:C:N4	35:BA:1755:A:C6	2.86	0.44
35:BA:1958:C:C2'	35:BA:1959:G:H5'	2.48	0.44
35:BA:2189:U:H3'	35:BA:2189:U:C6	2.53	0.44
35:BA:2199:A:H61	35:BA:2226:C:N4	2.16	0.44
35:BA:2341:G:H2'	35:BA:2342:C:H6	1.83	0.44
35:BA:242:G:N2	35:BA:243:U:O4	2.45	0.44
35:BA:2056:G:C8	35:BA:2577:A:C6	3.05	0.44
30:B5:5:PRO:HB3	35:BA:2614:A:N9	2.32	0.44
35:BA:2666:C:H5'	35:BA:2667:C:OP2	2.18	0.44
35:BA:2818:G:OP1	35:BA:2837:G:O2'	2.31	0.44
35:BA:288:C:C5	35:BA:351:G:N2	2.85	0.44
35:BA:361:G:H2'	35:BA:362:U:C5'	2.48	0.44
35:BA:462:C:H2'	35:BA:463:G:O4'	2.17	0.44
35:BA:491:G:C4	35:BA:492:A:C8	3.05	0.44
35:BA:830:G:C8	35:BA:2448:A:N3	2.86	0.44
35:BA:86:C:OP1	56:BY:32:PRO:HD2	2.18	0.44
35:BA:931:G:N1	35:BA:933:A:C6	2.86	0.44
35:BA:948:G:C4	35:BA:949:C:C5	3.05	0.44
36:BB:16:G:O2'	36:BB:17:C:P	2.76	0.44
36:BB:43:C:H5'	36:BB:44:G:OP2	2.18	0.44
36:BB:5:C:H2'	36:BB:6:C:H6	1.82	0.44
36:BB:71:C:H2'	36:BB:72:G:C5'	2.47	0.44
36:BB:76:G:C6	36:BB:77:U:C5	3.05	0.44
37:BC:77:ILE:O	37:BC:95:GLY:HA2	2.18	0.44
37:BC:3:HIS:ND1	37:BC:7:TYR:CD2	2.86	0.44
38:BD:131:LEU:CD2	38:BD:132:PRO:HD2	2.47	0.44
38:BD:162:SER:O	38:BD:178:PRO:HG3	2.17	0.44
38:BD:211:ARG:HB3	38:BD:212:SER:H	1.63	0.44
35:BA:782:A:N1	38:BD:226:MET:CE	2.81	0.44
38:BD:69:ARG:CZ	38:BD:105:ILE:CG1	2.96	0.44
39:BE:104:VAL:O	39:BE:166:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:52:LEU:O	39:BE:52:LEU:HG	2.18	0.44
35:BA:442:G:N2	40:BF:48:THR:HB	2.33	0.44
41:BG:104:GLU:O	41:BG:108:ASN:OD1	2.36	0.44
41:BG:159:VAL:HG22	41:BG:159:VAL:O	2.17	0.44
42:BH:91:GLY:HA2	42:BH:160:LYS:NZ	2.33	0.44
45:BN:52:VAL:HB	45:BN:120:LEU:HD22	2.00	0.44
47:BP:91:PHE:N	47:BP:91:PHE:CD1	2.86	0.44
47:BP:93:GLY:O	47:BP:123:LEU:HD12	2.18	0.44
49:BR:40:LYS:O	49:BR:44:LEU:HB2	2.18	0.44
50:BS:22:GLY:O	50:BS:23:ARG:O	2.36	0.44
50:BS:31:SER:OG	50:BS:32:LEU:N	2.51	0.44
51:BT:111:ARG:NH1	51:BT:111:ARG:HG2	2.32	0.44
54:BW:62:HIS:C	54:BW:63:ASP:CG	2.75	0.44
57:BZ:151:HIS:HB3	57:BZ:170:THR:CA	2.46	0.44
57:BZ:9:TYR:CE1	57:BZ:63:ASP:OD2	2.71	0.44
1:AA:1015:A:C8	1:AA:1016:A:N7	2.85	0.44
1:AA:1031:G:C2'	1:AA:1032:G:H5'	2.48	0.44
1:AA:1176:A:C6	1:AA:1177:G:C6	3.06	0.44
1:AA:1177:G:H2'	1:AA:1178:G:O4'	2.18	0.44
1:AA:1216:G:C6	1:AA:1217:C:N4	2.86	0.44
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.18	0.44
1:AA:1491:G:C5	1:AA:1492:A:C6	3.05	0.44
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.36	0.44
1:AA:184:G:O4'	1:AA:224:C:C5'	2.66	0.44
1:AA:232:G:H2'	1:AA:233:C:C6	2.53	0.44
1:AA:600:C:C2	1:AA:639:G:C2	3.06	0.44
1:AA:652:U:C5	1:AA:752:G:N3	2.86	0.44
1:AA:683:G:H3'	1:AA:684:A:C8	2.53	0.44
1:AA:699:C:H2'	1:AA:700:G:O4'	2.17	0.44
1:AA:688:G:O2'	1:AA:704:A:N1	2.45	0.44
1:AA:781:A:C6	1:AA:802:A:C2	3.05	0.44
1:AA:851:G:H2'	1:AA:852:G:C8	2.53	0.44
1:AA:857:C:H2'	1:AA:858:G:O5'	2.17	0.44
1:AA:906:G:C8	1:AA:906:G:H3'	2.53	0.44
1:AA:980:C:H5'	1:AA:981:U:C5	2.53	0.44
2:AB:42:ILE:CD1	2:AB:203:GLY:CA	2.88	0.44
2:AB:54:THR:CG2	2:AB:58:ILE:HD11	2.37	0.44
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.81	0.44
3:AC:55:VAL:HG22	3:AC:68:VAL:HG12	1.95	0.44
6:AF:52:ILE:HG21	6:AF:87:ARG:NH1	2.32	0.44
7:AG:18:TYR:CB	7:AG:59:LEU:HD13	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:89:ASN:HB3	9:AI:92:TYR:CG	2.53	0.44
10:AJ:33:GLN:HB2	10:AJ:75:ILE:CD1	2.47	0.44
10:AJ:45:ARG:NH1	10:AJ:45:ARG:HG3	2.32	0.44
17:AQ:67:LYS:O	17:AQ:68:ARG:HB2	2.17	0.44
18:AR:66:LEU:O	18:AR:70:ILE:CG1	2.64	0.44
20:AT:53:LEU:C	20:AT:55:ILE:N	2.71	0.44
20:AT:72:LEU:CD2	20:AT:80:ARG:HH21	2.29	0.44
1:AA:1326:C:OP1	21:AU:12:LYS:HE3	2.18	0.44
22:AV:48:C:C6	22:AV:48:C:OP1	2.62	0.44
24:AY:103:LEU:O	24:AY:104:THR:C	2.56	0.44
24:AY:138:LEU:HB2	24:AY:268:MET:CE	2.36	0.44
24:AY:15:THR:HG22	24:AY:106:VAL:HA	2.00	0.44
24:AY:215:LEU:HD23	24:AY:216:ASP:CG	2.38	0.44
24:AY:296:PHE:CD2	24:AY:331:LEU:CD1	2.93	0.44
24:AY:415:GLY:HA2	24:AY:457:TYR:CZ	2.53	0.44
25:B0:53:MET:HB3	25:B0:53:MET:HE2	1.87	0.44
28:B3:10:LYS:O	28:B3:11:SER:C	2.56	0.44
28:B3:35:ARG:HG2	28:B3:36:VAL:N	2.30	0.44
31:B6:18:ARG:HG3	31:B6:19:ARG:N	2.30	0.44
31:B6:8:LYS:O	31:B6:9:LEU:HB3	2.16	0.44
35:BA:85:G:N2	35:BA:103:A:C2	2.86	0.44
35:BA:1060:U:C5'	35:BA:1061:U:H5	2.31	0.44
35:BA:1090:U:O5'	35:BA:1090:U:H6	2.00	0.44
35:BA:1139:G:O2'	35:BA:1143:A:N6	2.43	0.44
35:BA:1203:G:N1	35:BA:1241:A:OP2	2.50	0.44
35:BA:1264:G:C6	35:BA:1265:A:N6	2.86	0.44
35:BA:1332:G:C5'	35:BA:1333:C:H5	2.30	0.44
35:BA:1642:G:C2'	35:BA:1643:G:H5'	2.47	0.44
35:BA:1653:G:H1'	35:BA:1654:A:OP2	2.18	0.44
35:BA:2304:G:C2	35:BA:2313:C:C2	3.06	0.44
35:BA:2328:A:H61	35:BA:2387:U:H3	1.66	0.44
35:BA:2456:C:O2'	35:BA:2457:U:H5'	2.17	0.44
35:BA:244:A:H3'	35:BA:245:G:O4'	2.18	0.44
35:BA:2469:A:N1	35:BA:2481:G:H1'	2.33	0.44
35:BA:252:G:O2'	35:BA:253:C:O4'	2.30	0.44
35:BA:271(G):C:H6	35:BA:271(G):C:O5'	2.01	0.44
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.44	0.44
35:BA:2832:U:H5	35:BA:2884:U:H5''	1.82	0.44
35:BA:695:G:C2	35:BA:696:G:C8	3.05	0.44
35:BA:884:C:C2	35:BA:892:G:N2	2.86	0.44
36:BB:16:G:O2'	36:BB:17:C:C6	2.67	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:103:ILE:HG23	37:BC:107:TRP:CD1	2.53	0.44
37:BC:59:ARG:NH2	37:BC:142:ALA:CB	2.81	0.44
38:BD:206:LEU:HD12	38:BD:207:GLY:H	1.83	0.44
38:BD:221:VAL:O	38:BD:221:VAL:HG23	2.18	0.44
38:BD:37:LEU:CD1	38:BD:62:TYR:CD1	3.00	0.44
39:BE:172:VAL:HG12	39:BE:172:VAL:O	2.18	0.44
39:BE:67:PHE:CD1	39:BE:68:ALA:N	2.77	0.44
42:BH:12:PRO:CD	42:BH:15:VAL:HG11	2.48	0.44
42:BH:12:PRO:HG2	42:BH:15:VAL:HG13	2.00	0.44
43:BJ:27:UNK:O	43:BJ:82:UNK:HA	2.18	0.44
35:BA:1058:G:OP1	44:BK:2:UNK:N	2.51	0.44
45:BN:107:LEU:O	45:BN:108:PRO:O	2.35	0.44
45:BN:34:LEU:HD22	45:BN:52:VAL:HG21	1.99	0.44
45:BN:66:LYS:O	45:BN:87:LEU:HB2	2.17	0.44
35:BA:833:U:C5'	47:BP:48:PRO:CB	2.88	0.44
35:BA:1277:G:HO2'	49:BR:24:GLN:HG2	1.81	0.44
49:BR:78:LYS:HG2	49:BR:78:LYS:O	2.16	0.44
51:BT:60:THR:CB	51:BT:76:PHE:O	2.66	0.44
52:BU:12:ARG:O	52:BU:13:LYS:C	2.55	0.44
53:BV:95:LEU:HD22	53:BV:97:LYS:HD3	1.99	0.44
54:BW:41:LYS:HA	54:BW:41:LYS:HD3	1.77	0.44
56:BY:38:ILE:HD12	56:BY:38:ILE:HA	1.65	0.44
57:BZ:102:LEU:HD11	57:BZ:124:ILE:HD13	2.00	0.44
57:BZ:149:SER:O	57:BZ:151:HIS:CD2	2.71	0.44
57:BZ:42:VAL:CG1	57:BZ:43:GLU:H	2.27	0.44
1:AA:1034:G:C2	1:AA:1035:A:N7	2.86	0.44
1:AA:1068:G:O6	1:AA:1108:G:C2	2.70	0.44
1:AA:1102:A:O2'	1:AA:1103:C:C5'	2.65	0.44
1:AA:1465:C:C4	1:AA:1466:C:C4	3.05	0.44
1:AA:200:G:C6	1:AA:201:C:C4	3.06	0.44
1:AA:294:U:O2'	1:AA:295:C:H5'	2.18	0.44
1:AA:346:G:O2'	1:AA:347:G:H8	2.01	0.44
1:AA:474:G:H2'	1:AA:475:G:H8	1.82	0.44
1:AA:608:A:C2	1:AA:609:A:C4	3.06	0.44
1:AA:609:A:C2'	1:AA:610:G:H5'	2.48	0.44
1:AA:658:G:H5''	15:AO:31:LEU:HD23	2.00	0.44
1:AA:739:C:C4	1:AA:740:U:C5	3.06	0.44
1:AA:762:C:H2'	1:AA:763:G:C8	2.53	0.44
1:AA:780:A:O3'	1:AA:1523:G:H4'	2.18	0.44
1:AA:782:A:C6	1:AA:801:U:C5	3.06	0.44
1:AA:892:A:C4	1:AA:907:A:C6	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:956:U:H2'	1:AA:957:U:H5'	1.99	0.44
1:AA:972:C:O2'	1:AA:973:G:C5'	2.65	0.44
2:AB:105:PHE:HE1	2:AB:152:PHE:CE1	2.36	0.44
2:AB:213:LEU:C	2:AB:213:LEU:CD2	2.87	0.44
2:AB:47:THR:O	2:AB:48:MET:C	2.56	0.44
2:AB:7:VAL:HA	2:AB:11:LEU:CD1	2.48	0.44
4:AD:105:VAL:HG13	4:AD:110:PHE:HB2	1.99	0.44
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.33	0.44
4:AD:19:LEU:CD2	4:AD:21:LEU:HD21	2.48	0.44
5:AE:39:GLY:CA	5:AE:69:VAL:HB	2.28	0.44
6:AF:24:GLU:O	6:AF:25:ILE:C	2.56	0.44
7:AG:139:GLU:O	7:AG:140:ASP:C	2.56	0.44
8:AH:30:ARG:CB	8:AH:30:ARG:NH1	2.81	0.44
1:AA:878:G:H5'	8:AH:89:PRO:CG	2.47	0.44
7:AG:37:ASN:HD21	9:AI:40:LEU:CD2	2.30	0.44
11:AK:71:LYS:O	11:AK:75:TYR:CD1	2.70	0.44
12:AL:105:TYR:O	24:AY:434:ASN:ND2	2.51	0.44
12:AL:86:ARG:HH21	12:AL:99:HIS:CG	2.35	0.44
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.47	0.44
13:AM:116:THR:O	13:AM:117:VAL:C	2.55	0.44
13:AM:89:GLY:O	13:AM:90:LEU:C	2.56	0.44
14:AN:42:ILE:O	14:AN:46:GLU:HB2	2.18	0.44
15:AO:12:ILE:HG13	15:AO:31:LEU:HD11	1.99	0.44
16:AP:8:ARG:HH21	16:AP:15:PRO:HG3	1.82	0.44
19:AS:6:LYS:O	19:AS:7:LYS:HD3	2.18	0.44
20:AT:44:ALA:HA	20:AT:52:ALA:HB1	2.00	0.44
20:AT:53:LEU:N	20:AT:53:LEU:HD12	2.32	0.44
21:AU:12:LYS:O	21:AU:17:THR:N	2.45	0.44
21:AU:9:ARG:HD3	21:AU:13:ILE:HD11	1.99	0.44
22:AV:63:G:H2'	22:AV:64:G:O4'	2.18	0.44
24:AY:136:PRO:HB3	24:AY:246:PHE:CZ	2.53	0.44
24:AY:34:LEU:N	24:AY:34:LEU:HD23	2.33	0.44
24:AY:68:ILE:CD1	24:AY:92:HIS:CE1	3.01	0.44
25:B0:31:VAL:N	25:B0:65:GLY:O	2.51	0.44
26:B1:37:ILE:HD12	26:B1:37:ILE:O	2.17	0.44
27:B2:40:SER:O	55:BX:13:LEU:HD11	2.18	0.44
28:B3:8:LEU:CD2	28:B3:31:LEU:HG	2.48	0.44
30:B5:44:THR:HG22	30:B5:45:VAL:H	1.82	0.44
31:B6:54:ILE:CD1	35:BA:2397:G:H22	2.31	0.44
32:B7:19:ARG:NH2	32:B7:23:ARG:HH22	2.16	0.44
33:B8:22:VAL:CG2	33:B8:53:PRO:HB2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:18:ARG:O	34:B9:19:ARG:HB3	2.18	0.44
35:BA:1038:C:H3'	35:BA:1039:G:C5'	2.48	0.44
35:BA:1055:G:H22	35:BA:1105:U:H1'	1.83	0.44
35:BA:1166:C:H1'	35:BA:1184:G:N2	2.33	0.44
35:BA:1199:U:C2	35:BA:1200:C:C6	3.06	0.44
35:BA:1252:G:O2'	35:BA:1253:A:O4'	2.35	0.44
35:BA:579:G:H1	35:BA:1261:C:N4	2.15	0.44
35:BA:1299:G:H4'	35:BA:1301:A:N9	2.33	0.44
35:BA:1924:C:P	35:BA:1924:C:C2'	3.00	0.44
35:BA:1936:A:P	35:BA:1961:C:N4	2.84	0.44
35:BA:1947:C:N3	35:BA:1948:G:N7	2.66	0.44
35:BA:1986:A:H3'	35:BA:1987:G:H5''	1.99	0.44
35:BA:205:G:HO2'	35:BA:206:U:P	2.37	0.44
35:BA:2063:C:N4	35:BA:2064:C:N4	2.66	0.44
35:BA:2073:C:C6	35:BA:2073:C:C3'	3.01	0.44
35:BA:2076:U:C5	38:BD:244:ARG:NH2	2.84	0.44
35:BA:2343:C:H2'	35:BA:2344:U:C5	2.51	0.44
35:BA:2396:G:C2	35:BA:2421:G:C6	3.06	0.44
35:BA:263:C:O4'	35:BA:430:G:H1'	2.17	0.44
35:BA:2711:A:C3'	35:BA:2712:U:H5'	2.48	0.44
26:B1:76:ARG:CA	35:BA:271(Q):G:H4'	2.42	0.44
35:BA:2818:G:OP2	49:BR:42:LYS:NZ	2.39	0.44
35:BA:2886:G:N2	35:BA:2887:U:C2	2.86	0.44
35:BA:372:G:O2'	35:BA:373:U:OP2	2.36	0.44
35:BA:424:G:O2'	35:BA:425:G:H5'	2.17	0.44
35:BA:463:G:C2	35:BA:467:G:N1	2.85	0.44
35:BA:486:C:O5'	35:BA:486:C:H6	2.01	0.44
35:BA:658:C:O2'	40:BF:102:PRO:HG3	2.18	0.44
35:BA:778:G:C2	35:BA:779:U:C2	3.06	0.44
35:BA:857:C:C4	35:BA:858:U:O4	2.71	0.44
37:BC:149:ILE:O	37:BC:153:ILE:HG13	2.18	0.44
37:BC:22:ILE:O	37:BC:186:ALA:HB2	2.18	0.44
37:BC:6:ARG:NH2	37:BC:7:TYR:CA	2.67	0.44
38:BD:148:GLU:H	38:BD:154:LYS:NZ	2.15	0.44
38:BD:233:HIS:CE1	38:BD:247:ALA:H	2.36	0.44
39:BE:169:ASN:O	39:BE:169:ASN:ND2	2.51	0.44
39:BE:199:ARG:NH1	39:BE:199:ARG:CB	2.59	0.44
40:BF:139:PHE:O	40:BF:141:ALA:N	2.50	0.44
41:BG:106:LEU:CD2	41:BG:157:ILE:HD13	2.48	0.44
29:B4:6:HIS:HB3	41:BG:67:LYS:HE2	1.99	0.44
36:BB:45:A:H1'	41:BG:95:ARG:CZ	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:58:GLU:O	42:BH:62:LYS:HG3	2.18	0.44
45:BN:34:LEU:HD13	45:BN:34:LEU:HA	1.81	0.44
45:BN:36:GLY:N	45:BN:49:GLY:HA2	2.30	0.44
45:BN:90:MET:HE2	45:BN:93:THR:O	2.18	0.44
46:BO:67:LYS:HD2	46:BO:68:GLU:CD	2.39	0.44
47:BP:5:ASP:OD1	47:BP:6:LEU:N	2.51	0.44
48:BQ:56:ARG:C	48:BQ:58:PHE:N	2.71	0.44
49:BR:117:VAL:HG22	49:BR:118:GLU:N	2.33	0.44
51:BT:110:ILE:C	51:BT:112:ARG:H	2.21	0.44
51:BT:73:GLU:OE2	51:BT:103:ARG:HD2	2.17	0.44
51:BT:78:LEU:HB3	51:BT:79:HIS:ND1	2.32	0.44
53:BV:52:VAL:CG2	53:BV:52:VAL:O	2.62	0.44
53:BV:62:LEU:CD2	53:BV:95:LEU:HB2	2.47	0.44
55:BX:10:ALA:HB1	55:BX:11:PRO:CD	2.48	0.44
56:BY:63:LYS:HG2	56:BY:64:GLU:H	1.83	0.44
48:BQ:141:GLN:OE1	57:BZ:72:ARG:HA	2.18	0.44
1:AA:1030(C):G:O2'	1:AA:1030(D):A:H5'	2.17	0.43
1:AA:1053:G:O2'	1:AA:1054:C:OP2	2.30	0.43
1:AA:105:G:O2'	1:AA:106:C:H5'	2.18	0.43
1:AA:1282:C:H2'	1:AA:1283:G:O5'	2.18	0.43
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.18	0.43
1:AA:339:C:H2'	1:AA:340:U:H6	1.79	0.43
1:AA:340:U:C2	1:AA:350:G:N2	2.86	0.43
1:AA:59:A:N1	1:AA:331:G:N3	2.65	0.43
1:AA:673:G:O6	1:AA:734:G:C6	2.71	0.43
1:AA:678:U:C5	1:AA:679:C:C5	3.06	0.43
1:AA:836:G:C5	1:AA:851:G:N1	2.86	0.43
2:AB:10:LEU:O	2:AB:10:LEU:HD13	2.18	0.43
2:AB:177:ALA:O	2:AB:180:LEU:N	2.51	0.43
3:AC:113:ALA:HB2	3:AC:183:ASP:O	2.18	0.43
3:AC:157:ILE:HB	3:AC:164:ARG:NH2	2.32	0.43
4:AD:135:LEU:O	4:AD:136:PRO:C	2.56	0.43
4:AD:29:PRO:O	4:AD:30:LYS:HB3	2.18	0.43
7:AG:14:PRO:HA	7:AG:21:VAL:HG12	1.99	0.43
10:AJ:14:LYS:C	10:AJ:16:LEU:N	2.69	0.43
10:AJ:64:GLU:HG2	14:AN:59:ALA:CA	2.46	0.43
12:AL:113:ARG:HB3	12:AL:122:THR:HG21	1.98	0.43
13:AM:56:LEU:CD1	13:AM:57:ARG:N	2.77	0.43
15:AO:10:LYS:HE2	15:AO:10:LYS:HA	2.00	0.43
15:AO:53:HIS:O	15:AO:54:ARG:C	2.56	0.43
15:AO:39:LEU:HB3	15:AO:56:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:70:LEU:HD12	15:AO:78:TYR:HD1	1.83	0.43
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.51	0.43
17:AQ:29:HIS:CE1	17:AQ:32:TYR:CD2	3.05	0.43
1:AA:253:U:H5''	17:AQ:68:ARG:HD2	2.00	0.43
20:AT:61:SER:O	20:AT:62:LEU:C	2.57	0.43
24:AY:113:ILE:HG23	24:AY:118:GLY:C	2.39	0.43
24:AY:179:PHE:HD2	24:AY:193:TYR:CE2	2.36	0.43
24:AY:210:LEU:O	24:AY:212:ASN:N	2.50	0.43
24:AY:215:LEU:HD23	24:AY:216:ASP:OD2	2.18	0.43
24:AY:169:ILE:CD1	24:AY:275:TRP:CZ2	3.01	0.43
24:AY:282:ARG:O	24:AY:283:GLN:CG	2.66	0.43
24:AY:9:GLU:HB2	24:AY:360:TYR:OH	2.18	0.43
24:AY:384:MET:O	24:AY:385:MET:CB	2.65	0.43
24:AY:99:THR:O	24:AY:101:ARG:N	2.51	0.43
30:B5:28:PRO:O	30:B5:30:LEU:HG	2.18	0.43
31:B6:35:GLU:CB	31:B6:51:GLU:OE1	2.66	0.43
31:B6:48:VAL:O	31:B6:49:HIS:ND1	2.51	0.43
35:BA:1163:G:C2	35:BA:1164:G:C8	3.06	0.43
35:BA:1289:C:H4'	35:BA:1330:C:O4'	2.17	0.43
35:BA:1312:U:OP2	55:BX:63:LYS:NZ	2.34	0.43
35:BA:1360:A:N6	35:BA:1372:U:C5	2.85	0.43
32:B7:10:ARG:NH2	35:BA:1378:A:H5''	2.32	0.43
35:BA:1452:A:O2'	35:BA:1453:U:H6	2.01	0.43
35:BA:1494:A:O2'	35:BA:1496:A:C2	2.71	0.43
35:BA:1555:G:N2	35:BA:1556:C:C2	2.86	0.43
35:BA:1310:G:O4'	35:BA:1611:C:H5''	2.18	0.43
35:BA:1619:G:C8	35:BA:1619:G:O5'	2.71	0.43
35:BA:1891:G:C2	35:BA:1892:C:C2	3.06	0.43
35:BA:2115:G:H5'	35:BA:2167:U:H1'	2.00	0.43
35:BA:2291:U:H2'	35:BA:2292:C:H6	1.76	0.43
35:BA:2296:U:N3	35:BA:2337:G:N2	2.66	0.43
35:BA:2487:G:H2'	35:BA:2488:A:H8	1.82	0.43
35:BA:2650:U:H2'	35:BA:2651:C:H6	1.84	0.43
35:BA:269:U:C4	35:BA:271(Y):U:C2	3.05	0.43
35:BA:2628:C:C2'	35:BA:2781:A:H2'	2.47	0.43
35:BA:2860:A:C8	35:BA:2861:G:H1'	2.53	0.43
35:BA:2690:C:H5''	35:BA:2872:G:H22	1.82	0.43
35:BA:335:C:OP1	35:BA:335:C:C6	2.68	0.43
35:BA:370:G:O2'	35:BA:423:A:H3'	2.18	0.43
35:BA:599:G:H2'	35:BA:600:G:H8	1.83	0.43
35:BA:695:G:C2	35:BA:696:G:C4	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:747:U:OP1	35:BA:2612:C:H6	2.01	0.43
35:BA:774:A:H2	35:BA:787:U:C2'	2.31	0.43
35:BA:815:C:C2	35:BA:1193:G:C2	3.06	0.43
37:BC:167:LYS:O	37:BC:167:LYS:CG	2.66	0.43
38:BD:53:PHE:HA	38:BD:218:ARG:HB2	2.00	0.43
38:BD:75:ILE:N	38:BD:75:ILE:HD12	2.32	0.43
40:BF:195:ASP:O	40:BF:199:TRP:HB2	2.18	0.43
40:BF:70:THR:O	40:BF:72:ARG:N	2.51	0.43
41:BG:71:THR:CG2	41:BG:72:ARG:H	2.31	0.43
43:BJ:103:UNK:O	43:BJ:108:UNK:CB	2.66	0.43
45:BN:46:VAL:O	45:BN:46:VAL:HG22	2.18	0.43
47:BP:113:LYS:HG2	47:BP:114:ILE:N	2.32	0.43
47:BP:38:GLN:O	47:BP:39:LYS:CB	2.66	0.43
47:BP:83:VAL:HG23	47:BP:105:LEU:CD2	2.38	0.43
48:BQ:78:PRO:CD	48:BQ:81:VAL:HG11	2.30	0.43
49:BR:90:ARG:HH21	49:BR:118:GLU:HA	1.83	0.43
51:BT:25:GLY:O	51:BT:48:ILE:CG2	2.66	0.43
51:BT:54:ARG:HA	51:BT:59:THR:HG22	1.98	0.43
56:BY:2:ARG:HG2	56:BY:2:ARG:NH1	2.33	0.43
57:BZ:6:LYS:N	57:BZ:6:LYS:HD3	2.33	0.43
1:AA:1030(B):C:O5'	1:AA:1030(B):C:H6	2.01	0.43
1:AA:106:C:N4	20:AT:14:LYS:CE	2.81	0.43
1:AA:1068:G:C6	1:AA:1108:G:C2	3.06	0.43
1:AA:1406:U:C6	1:AA:1407:C:C6	3.06	0.43
1:AA:1406:U:H2'	1:AA:1407:C:C5'	2.48	0.43
1:AA:254:G:C2'	1:AA:255:G:H5'	2.48	0.43
1:AA:309:G:H2'	1:AA:310:G:H8	1.83	0.43
1:AA:334:C:H6	1:AA:334:C:O5'	2.01	0.43
1:AA:356:A:C2	1:AA:368:U:O2	2.71	0.43
1:AA:390:C:H4'	16:AP:28:ARG:NH2	2.12	0.43
1:AA:585:G:C6	1:AA:586:C:C4	3.06	0.43
1:AA:830:G:O2'	1:AA:831:U:H5'	2.18	0.43
1:AA:860:A:N6	1:AA:861:G:C2	2.85	0.43
1:AA:929:G:H21	1:AA:930:C:H1'	1.83	0.43
2:AB:115:LEU:CG	2:AB:145:LEU:HD12	2.49	0.43
2:AB:157:ARG:CZ	2:AB:157:ARG:CB	2.96	0.43
2:AB:212:GLN:O	2:AB:213:LEU:O	2.36	0.43
3:AC:150:LYS:HE3	3:AC:167:TRP:CD1	2.53	0.43
3:AC:21:ARG:CG	3:AC:58:GLU:HG2	2.43	0.43
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	2.00	0.43
3:AC:83:ARG:O	3:AC:85:ARG:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:100:ARG:HB3	4:AD:103:ASN:HB2	2.00	0.43
4:AD:184:LYS:O	4:AD:186:LEU:N	2.50	0.43
4:AD:52:SER:O	4:AD:56:VAL:CG2	2.67	0.43
7:AG:54:THR:OG1	7:AG:56:GLN:CG	2.65	0.43
7:AG:59:LEU:O	7:AG:62:PHE:HB3	2.18	0.43
9:AI:11:LYS:C	9:AI:13:ALA:H	2.21	0.43
9:AI:22:GLY:O	9:AI:58:ARG:C	2.57	0.43
11:AK:63:LEU:O	11:AK:66:LEU:HG	2.18	0.43
12:AL:20:LYS:CD	12:AL:20:LYS:N	2.81	0.43
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.18	0.43
15:AO:29:VAL:O	15:AO:33:THR:HB	2.18	0.43
15:AO:65:ARG:HG3	15:AO:66:LEU:H	1.82	0.43
17:AQ:29:HIS:CA	17:AQ:36:ILE:HD11	2.47	0.43
20:AT:94:ALA:O	20:AT:95:ALA:C	2.56	0.43
22:AV:4:G:H2'	22:AV:5:G:H8	1.83	0.43
23:AX:17:U:O2'	23:AX:18:G:H5'	2.17	0.43
24:AY:14:ARG:CD	24:AY:276:ALA:CB	2.88	0.43
24:AY:307:MET:CG	24:AY:313:ASP:H	2.30	0.43
24:AY:326:GLU:O	24:AY:327:LYS:C	2.56	0.43
24:AY:332:ARG:CA	24:AY:339:ASP:OD1	2.66	0.43
24:AY:349:MET:HG2	24:AY:350:ALA:N	2.33	0.43
24:AY:425:VAL:HG21	24:AY:449:VAL:HG11	1.99	0.43
24:AY:13:ARG:NH1	24:AY:83:LEU:HD12	2.32	0.43
26:B1:46:LEU:HD22	26:B1:63:ALA:HA	2.00	0.43
28:B3:15:TYR:O	28:B3:20:LYS:NZ	2.46	0.43
28:B3:9:VAL:HG11	28:B3:55:ARG:HD3	2.01	0.43
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.33	0.43
28:B3:8:LEU:CD1	28:B3:31:LEU:HA	2.48	0.43
31:B6:15:GLU:HG2	31:B6:18:ARG:NH2	2.33	0.43
32:B7:34:ARG:HH22	35:BA:466:A:P	2.40	0.43
33:B8:8:LYS:NZ	33:B8:11:LYS:HZ3	2.09	0.43
35:BA:1006:C:H2'	35:BA:1007:C:C6	2.53	0.43
35:BA:1258:C:O4'	40:BF:84:VAL:CG2	2.66	0.43
35:BA:1396:U:H2'	35:BA:1396:U:O2	2.18	0.43
35:BA:1425:G:H2'	35:BA:1426:G:O4'	2.18	0.43
35:BA:1650:G:H5'	49:BR:107:ASP:OD2	2.19	0.43
35:BA:1853:A:H2'	35:BA:1854:A:O4'	2.18	0.43
35:BA:1892:C:HO2'	35:BA:1893:C:H5''	1.81	0.43
35:BA:1949:G:H1	35:BA:1957:C:N4	2.15	0.43
35:BA:203:C:P	35:BA:204:A:H3'	2.57	0.43
35:BA:2073:C:C6	35:BA:2073:C:H3'	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2100:G:C2	35:BA:2101:G:C2	3.06	0.43
35:BA:2152:G:C6	35:BA:2153:G:N7	2.86	0.43
35:BA:2263:C:H2'	35:BA:2264:C:C6	2.53	0.43
35:BA:237:C:H2'	35:BA:238:C:H6	1.83	0.43
35:BA:239:U:O2	35:BA:259:G:C2	2.71	0.43
35:BA:2459:A:C2	35:BA:2494:G:H1'	2.53	0.43
35:BA:2563:U:H1'	35:BA:2566:A:C5	2.53	0.43
35:BA:258:G:H8	35:BA:258:G:O5'	2.00	0.43
35:BA:2820:A:H8	39:BE:109:LYS:HE2	1.83	0.43
35:BA:412:A:C2	35:BA:413:C:C1'	3.01	0.43
35:BA:535:C:H2'	35:BA:536:A:O4'	2.18	0.43
35:BA:592:G:C4	35:BA:666:G:N2	2.86	0.43
35:BA:685:A:OP1	35:BA:686:G:N2	2.51	0.43
27:B2:14:ARG:HH22	35:BA:78:A:H5'	1.81	0.43
35:BA:833:U:H5''	47:BP:48:PRO:HB3	1.96	0.43
35:BA:865:C:H4'	35:BA:866:A:OP1	2.17	0.43
35:BA:907:U:OP1	48:BQ:24:GLY:N	2.48	0.43
35:BA:920:G:H2'	35:BA:921:G:H8	1.82	0.43
35:BA:944:G:H22	47:BP:38:GLN:NE2	2.16	0.43
35:BA:972:G:C2	35:BA:973:A:N6	2.86	0.43
37:BC:114:VAL:HG12	37:BC:144:THR:CG2	2.48	0.43
38:BD:14:ARG:NH1	38:BD:14:ARG:HG2	2.22	0.43
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.18	0.43
38:BD:221:VAL:CG2	38:BD:221:VAL:O	2.66	0.43
38:BD:181:GLU:OE2	38:BD:270:ILE:HG21	2.18	0.43
40:BF:131:GLY:CA	40:BF:138:GLU:O	2.65	0.43
40:BF:3:GLU:HA	40:BF:24:LEU:HB2	2.00	0.43
41:BG:76:SER:HB3	41:BG:83:ARG:CG	2.48	0.43
44:BK:99:UNK:O	44:BK:100:UNK:O	2.36	0.43
45:BN:22:THR:C	45:BN:23:LEU:O	2.56	0.43
45:BN:35:ARG:O	45:BN:36:GLY:C	2.57	0.43
48:BQ:72:LYS:O	48:BQ:93:TYR:CD1	2.71	0.43
49:BR:29:LEU:HD21	49:BR:52:ILE:CD1	2.43	0.43
51:BT:16:ARG:NH1	51:BT:16:ARG:CB	2.80	0.43
52:BU:24:TYR:O	52:BU:29:SER:HB3	2.18	0.43
45:BN:38:HIS:O	52:BU:67:ALA:HB1	2.17	0.43
52:BU:92:ARG:NH1	53:BV:11:GLN:N	2.66	0.43
54:BW:65:LEU:HD23	54:BW:68:ARG:CD	2.48	0.43
56:BY:40:GLU:HA	56:BY:40:GLU:OE1	2.17	0.43
57:BZ:128:VAL:HG11	57:BZ:133:ILE:HD13	2.00	0.43
57:BZ:63:ASP:O	57:BZ:65:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:28:MET:HA	57:BZ:88:PHE:HB2	2.00	0.43
57:BZ:8:TYR:CD2	57:BZ:38:TYR:CZ	3.06	0.43
1:AA:1060:C:C5	3:AC:2:GLY:HA3	2.54	0.43
1:AA:106:C:N4	20:AT:14:LYS:HZ1	2.15	0.43
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.53	0.43
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.18	0.43
1:AA:161:A:H2'	1:AA:162:A:C8	2.53	0.43
1:AA:319:G:O2'	1:AA:320:C:H5'	2.18	0.43
1:AA:339:C:OP1	46:BO:96:THR:OG1	2.35	0.43
1:AA:47:C:H4'	1:AA:365:U:C5	2.53	0.43
1:AA:59:A:H4'	1:AA:388:G:OP1	2.17	0.43
1:AA:570:G:O4'	1:AA:820:U:O2	2.35	0.43
1:AA:80:G:N1	1:AA:90:U:H5'	2.32	0.43
1:AA:911:U:H2'	1:AA:912:C:C6	2.53	0.43
1:AA:962:C:H2'	1:AA:963:G:C8	2.52	0.43
2:AB:201:ILE:C	2:AB:202:PRO:O	2.53	0.43
4:AD:155:LEU:CB	4:AD:158:ILE:HG12	2.43	0.43
4:AD:3:ARG:O	4:AD:4:TYR:C	2.56	0.43
5:AE:76:ILE:HD12	5:AE:142:LEU:HD21	2.00	0.43
6:AF:31:GLU:O	6:AF:33:TYR:N	2.51	0.43
9:AI:88:TYR:O	9:AI:89:ASN:ND2	2.51	0.43
12:AL:60:LEU:HD11	12:AL:85:ILE:HG12	2.00	0.43
12:AL:8:ASN:O	12:AL:12:ARG:HG3	2.19	0.43
12:AL:90:VAL:HG21	12:AL:96:VAL:CG1	2.48	0.43
13:AM:49:THR:C	13:AM:51:ALA:N	2.72	0.43
13:AM:70:LEU:CA	13:AM:73:GLU:HB3	2.48	0.43
22:AV:10:G:H2'	22:AV:11:A:H8	1.82	0.43
22:AV:53:G:H5''	22:AV:54:U:OP2	2.18	0.43
22:AV:66:C:C5	22:AV:67:C:C5	3.06	0.43
24:AY:21:HIS:CD2	24:AY:122:ARG:HG2	2.53	0.43
24:AY:19:ILE:HD12	24:AY:127:MET:HG2	2.00	0.43
24:AY:169:ILE:CD1	24:AY:275:TRP:HZ2	2.31	0.43
24:AY:492:GLN:CA	24:AY:504:ILE:HG12	2.49	0.43
24:AY:78:PRO:HB3	24:AY:83:LEU:CA	2.47	0.43
24:AY:79:TYR:O	24:AY:82:CYS:O	2.36	0.43
25:B0:25:ARG:NH1	25:B0:25:ARG:HG2	2.31	0.43
26:B1:50:ARG:CG	26:B1:59:THR:HG22	2.47	0.43
33:B8:22:VAL:HG21	33:B8:53:PRO:HB2	2.00	0.43
34:B9:2:LYS:O	34:B9:34:GLN:HA	2.18	0.43
35:BA:1009:A:O4'	52:BU:59:ARG:HG2	2.17	0.43
35:BA:976:C:C5'	35:BA:1156:A:N6	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1645:G:H5''	35:BA:1646:C:C5'	2.49	0.43
35:BA:16:G:H1	35:BA:524:U:H3	1.66	0.43
35:BA:2010:G:C5	35:BA:2011:U:C5	3.06	0.43
35:BA:2048:G:O6	35:BA:2049:G:C6	2.72	0.43
35:BA:2064:C:H2'	35:BA:2065:C:C6	2.53	0.43
35:BA:2300:G:H2'	35:BA:2301:C:H6	1.80	0.43
35:BA:2395:C:O2'	35:BA:2396:G:O5'	2.31	0.43
35:BA:2633:G:H2'	35:BA:2634:G:O4'	2.19	0.43
35:BA:2674:G:C6	35:BA:2675:A:C5	3.06	0.43
35:BA:296:C:HO2'	35:BA:297:C:H5'	1.82	0.43
35:BA:327:G:H21	35:BA:328:U:H1'	1.77	0.43
35:BA:363(E):U:H2'	35:BA:363(F):A:H1'	2.00	0.43
35:BA:363(E):U:H3'	35:BA:363(F):A:O4'	2.17	0.43
35:BA:531:C:H5''	35:BA:532:A:C6	2.53	0.43
35:BA:76:C:H2'	35:BA:77:C:H6	1.79	0.43
35:BA:779:U:H6	35:BA:779:U:O5'	2.00	0.43
32:B7:4:THR:HG22	35:BA:789:A:H5'	1.99	0.43
35:BA:7:G:H8	35:BA:7:G:O5'	2.01	0.43
35:BA:911:A:H5''	35:BA:912:C:H5''	1.99	0.43
35:BA:943:U:OP2	47:BP:38:GLN:CD	2.57	0.43
35:BA:996:A:O2'	35:BA:997:G:H5'	2.18	0.43
35:BA:999:U:H6	35:BA:1154:G:C6	2.36	0.43
38:BD:117:VAL:HG21	38:BD:129:ASN:N	2.33	0.43
38:BD:24:ILE:O	38:BD:25:THR:C	2.56	0.43
39:BE:13:ARG:HA	39:BE:23:VAL:HG22	1.99	0.43
40:BF:125:LEU:CD2	40:BF:125:LEU:N	2.77	0.43
41:BG:72:ARG:CZ	41:BG:86:MET:HA	2.47	0.43
41:BG:7:LEU:O	41:BG:9:ARG:N	2.51	0.43
42:BH:61:HIS:O	42:BH:62:LYS:C	2.57	0.43
46:BO:28:SER:O	46:BO:29:ASN:ND2	2.51	0.43
47:BP:106:LEU:HD11	47:BP:112:LEU:CD2	2.48	0.43
47:BP:130:PHE:HB3	47:BP:135:LEU:HD23	2.00	0.43
48:BQ:101:ARG:HG3	48:BQ:101:ARG:HH11	1.82	0.43
52:BU:74:LEU:HD13	52:BU:75:ASN:C	2.38	0.43
53:BV:32:THR:CG2	53:BV:33:VAL:N	2.78	0.43
54:BW:13:SER:HA	54:BW:99:ARG:HB2	2.00	0.43
55:BX:28:PHE:HZ	55:BX:81:VAL:HG21	1.72	0.43
57:BZ:100:VAL:O	57:BZ:123:ASP:HA	2.18	0.43
1:AA:1306:A:C4	1:AA:1307:U:C6	3.06	0.43
1:AA:131:C:C2'	1:AA:131:C:O2	2.67	0.43
1:AA:184:G:C4'	1:AA:224:C:H5''	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:285:G:H2'	1:AA:286:G:C8	2.44	0.43
1:AA:405:U:H5''	1:AA:495:A:H2	1.83	0.43
1:AA:42:G:O2'	1:AA:622:A:N1	2.47	0.43
1:AA:670:G:O5'	1:AA:670:G:H8	2.01	0.43
1:AA:716:A:H2'	1:AA:717:C:O4'	2.18	0.43
2:AB:124:SER:O	2:AB:126:GLU:N	2.49	0.43
2:AB:102:LEU:CD2	2:AB:176:GLU:HB3	2.34	0.43
2:AB:218:ALA:O	2:AB:219:VAL:C	2.56	0.43
3:AC:155:GLY:O	3:AC:157:ILE:HG13	2.18	0.43
5:AE:145:LYS:HA	5:AE:148:VAL:HB	2.00	0.43
7:AG:127:ALA:O	7:AG:130:GLY:N	2.50	0.43
7:AG:60:LYS:O	7:AG:63:LYS:HB3	2.18	0.43
13:AM:92:HIS:CE1	13:AM:98:VAL:HG21	2.53	0.43
14:AN:21:TYR:N	14:AN:21:TYR:HD1	2.15	0.43
14:AN:26:ARG:HH11	14:AN:47:LEU:CD2	2.31	0.43
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.48	0.43
18:AR:44:LEU:N	18:AR:44:LEU:CD1	2.81	0.43
18:AR:63:GLN:O	18:AR:66:LEU:N	2.51	0.43
19:AS:29:ARG:N	19:AS:29:ARG:CD	2.81	0.43
24:AY:105:ALA:CA	24:AY:319:ARG:NH1	2.56	0.43
24:AY:32:LYS:O	24:AY:35:LEU:CB	2.65	0.43
24:AY:399:ARG:O	24:AY:437:ILE:HA	2.19	0.43
24:AY:493:LEU:HD23	24:AY:493:LEU:HA	1.83	0.43
26:B1:82:LEU:HD13	26:B1:82:LEU:HA	1.68	0.43
28:B3:10:LYS:NZ	28:B3:15:TYR:OH	2.43	0.43
29:B4:37:SER:C	29:B4:39:CYS:N	2.71	0.43
35:BA:1042:G:C2	35:BA:1043:C:H1'	2.54	0.43
35:BA:1091:G:C2	35:BA:1092:C:C4	3.07	0.43
35:BA:1025:G:H1'	35:BA:1135:C:O4'	2.17	0.43
35:BA:124:G:H8	35:BA:124:G:O5'	2.00	0.43
35:BA:1260:G:C4	35:BA:1261:C:C6	3.06	0.43
35:BA:1338:G:N3	35:BA:1393:A:H2	2.15	0.43
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.53	0.43
35:BA:1647:G:OP2	35:BA:1647:G:H3'	2.19	0.43
35:BA:1679:U:C4	35:BA:1680:U:C4	3.06	0.43
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.48	0.43
35:BA:1750:G:C2'	35:BA:1751:C:H5'	2.47	0.43
35:BA:1798:U:C2	35:BA:1822:G:C2	3.07	0.43
35:BA:187:G:H1	35:BA:209:C:H42	1.67	0.43
35:BA:2106:G:H2'	35:BA:2107:C:C1'	2.49	0.43
35:BA:45:C:H5''	35:BA:215:G:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:185:U:C4'	35:BA:218:A:H4'	2.49	0.43
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.99	0.43
35:BA:2395:C:C6	35:BA:2396:G:C8	3.06	0.43
35:BA:271(F):C:C2'	35:BA:271(G):C:H5'	2.48	0.43
35:BA:299:A:C6	35:BA:300:A:C6	3.06	0.43
35:BA:109:G:C5'	35:BA:348:G:H4'	2.49	0.43
32:B7:33:ARG:HD2	35:BA:467:G:OP1	2.18	0.43
35:BA:589:C:C2	35:BA:590:A:C8	3.06	0.43
35:BA:672:C:C3'	35:BA:673:C:H5''	2.49	0.43
35:BA:824:A:C6	35:BA:825:C:C4	3.07	0.43
35:BA:878:A:C6	35:BA:900:A:N7	2.86	0.43
36:BB:11:C:OP2	36:BB:12:C:H5	2.01	0.43
36:BB:95:C:O2'	36:BB:96:U:C5'	2.62	0.43
37:BC:192:PHE:O	37:BC:192:PHE:CD1	2.72	0.43
38:BD:80:ALA:O	38:BD:113:VAL:HG12	2.19	0.43
38:BD:158:ALA:C	38:BD:196:VAL:HG11	2.34	0.43
35:BA:782:A:N1	38:BD:226:MET:HG2	2.24	0.43
38:BD:2:ALA:O	38:BD:3:VAL:CG2	2.59	0.43
39:BE:9:VAL:HG12	39:BE:25:VAL:HB	1.97	0.43
39:BE:31:CYS:HA	39:BE:50:GLY:O	2.19	0.43
39:BE:64:LYS:O	39:BE:64:LYS:CG	2.66	0.43
40:BF:119:ARG:NH1	40:BF:119:ARG:CG	2.81	0.43
40:BF:155:LEU:HD12	40:BF:156:LEU:N	2.33	0.43
41:BG:36:LYS:HG2	41:BG:37:VAL:N	2.34	0.43
35:BA:1242:A:C6	47:BP:8:PRO:HB2	2.53	0.43
48:BQ:21:THR:O	48:BQ:22:LYS:HB3	2.18	0.43
49:BR:60:LEU:HA	49:BR:63:ARG:HD2	1.99	0.43
51:BT:50:ILE:HD11	51:BT:64:ARG:HB3	2.00	0.43
52:BU:83:LEU:CG	52:BU:88:ILE:HD11	2.46	0.43
52:BU:95:LEU:HD12	53:BV:11:GLN:HE21	1.84	0.43
54:BW:76:VAL:HG22	54:BW:101:SER:HB2	2.00	0.43
54:BW:25:ARG:CA	54:BW:71:VAL:HG11	2.28	0.43
35:BA:143:G:O4'	55:BX:37:THR:HG21	2.17	0.43
57:BZ:111:VAL:O	57:BZ:113:ALA:O	2.36	0.43
57:BZ:166:SER:H	57:BZ:167:PRO:HA	1.83	0.43
1:AA:1015:A:O2'	14:AN:15:LYS:NZ	2.48	0.43
1:AA:108:G:N3	1:AA:108:G:H5''	2.33	0.43
1:AA:1186:G:C6	1:AA:1187:G:N7	2.86	0.43
1:AA:1269:A:C2	1:AA:1313:U:H1'	2.52	0.43
1:AA:1328:C:O2'	1:AA:1329:A:H5'	2.18	0.43
1:AA:139:G:H2'	1:AA:140:A:C8	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:959:A:C4'	1:AA:985:C:H4'	2.49	0.43
2:AB:95:GLN:HG3	2:AB:148:TYR:HA	2.01	0.43
2:AB:182:ILE:O	2:AB:183:PRO:C	2.57	0.43
2:AB:82:ARG:HG2	2:AB:82:ARG:HH11	1.84	0.43
3:AC:35:GLU:O	3:AC:36:ASP:C	2.57	0.43
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.18	0.43
4:AD:170:VAL:O	4:AD:171:GLY:O	2.36	0.43
4:AD:82:ALA:O	4:AD:89:THR:HG22	2.19	0.43
5:AE:80:ILE:HD11	5:AE:138:ALA:CB	2.48	0.43
6:AF:7:ASN:ND2	18:AR:34:TYR:OH	2.51	0.43
7:AG:118:VAL:O	7:AG:119:ARG:O	2.37	0.43
1:AA:933:G:OP2	7:AG:3:ARG:HB2	2.19	0.43
8:AH:4:ASP:O	8:AH:5:PRO:O	2.36	0.43
9:AI:52:ALA:CB	9:AI:95:LYS:HZ1	2.32	0.43
9:AI:85:LEU:C	9:AI:85:LEU:CD1	2.86	0.43
13:AM:102:ARG:CD	13:AM:105:THR:OG1	2.65	0.43
13:AM:108:ARG:HG3	13:AM:108:ARG:NH1	2.34	0.43
13:AM:60:VAL:CG1	13:AM:61:GLU:N	2.73	0.43
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.84	0.43
15:AO:24:SER:OG	15:AO:27:VAL:CG2	2.66	0.43
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.19	0.43
18:AR:54:ARG:O	18:AR:55:ARG:CG	2.65	0.43
24:AY:103:LEU:HB3	24:AY:106:VAL:CG1	2.49	0.43
24:AY:446:PHE:CA	24:AY:449:VAL:HG22	2.46	0.43
25:B0:27:GLU:N	25:B0:27:GLU:CD	2.72	0.43
26:B1:7:ILE:CG2	26:B1:66:HIS:HD2	2.31	0.43
32:B7:5:TRP:HD1	35:BA:1612:C:O3'	2.00	0.43
35:BA:1072:C:O2	35:BA:1094:U:O4	2.36	0.43
35:BA:1023:U:H4'	35:BA:1123:C:OP1	2.18	0.43
35:BA:1137:G:O2'	35:BA:2039:C:C5'	2.64	0.43
35:BA:1278:A:H5'	49:BR:24:GLN:HE21	1.83	0.43
35:BA:1423:G:O2'	35:BA:1424:G:O4'	2.34	0.43
35:BA:1484:G:N2	35:BA:1506:C:N3	2.66	0.43
35:BA:1797:C:N4	35:BA:1822:G:H1	2.16	0.43
30:B5:9:LYS:HE3	35:BA:2019:A:N7	2.34	0.43
35:BA:2280:G:C2	35:BA:2281:C:C5	3.07	0.43
35:BA:2284:C:H2'	35:BA:2285:C:C6	2.47	0.43
35:BA:2348:U:H5	35:BA:2382:G:C2	2.35	0.43
35:BA:2345:G:N2	35:BA:2382:G:H8	2.16	0.43
35:BA:2540:C:C2'	35:BA:2541:A:O4'	2.60	0.43
35:BA:2742:C:H2'	35:BA:2743:C:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.48	0.43
35:BA:2877:G:OP2	35:BA:2877:G:H8	2.02	0.43
35:BA:272(G):C:O2	35:BA:363(D):G:N2	2.51	0.43
35:BA:392:C:H2'	35:BA:393:C:C6	2.54	0.43
35:BA:182:A:H2	35:BA:433:C:O2	2.00	0.43
35:BA:534:U:H6	35:BA:534:U:O5'	2.01	0.43
35:BA:553:G:C2'	35:BA:554:U:H5'	2.48	0.43
35:BA:586:A:N1	35:BA:1254:A:C2	2.86	0.43
35:BA:587:C:O2'	35:BA:588:U:P	2.77	0.43
35:BA:783:A:H3'	35:BA:783:A:C8	2.54	0.43
35:BA:783:A:H2'	35:BA:784:A:O5'	2.18	0.43
35:BA:877:U:HO2'	35:BA:878:A:H5''	1.82	0.43
35:BA:910:A:H3'	35:BA:911:A:C8	2.54	0.43
36:BB:101:G:N9	36:BB:102:A:C8	2.86	0.43
37:BC:227:HIS:O	37:BC:228:SER:HB3	2.19	0.43
38:BD:242:ARG:HH11	38:BD:246:PRO:HG3	1.83	0.43
38:BD:247:ALA:HB2	38:BD:253:GLN:CG	2.48	0.43
38:BD:26:LYS:O	38:BD:27:THR:OG1	2.37	0.43
38:BD:80:ALA:HB3	38:BD:94:LEU:HD12	1.99	0.43
38:BD:92:ILE:HG22	38:BD:106:ILE:CG1	2.45	0.43
39:BE:101:ARG:HB2	39:BE:201:THR:HG21	2.00	0.43
39:BE:119:ARG:HG3	39:BE:160:TYR:CD1	2.53	0.43
41:BG:51:ARG:NH1	41:BG:53:LEU:HD11	2.34	0.43
42:BH:29:PRO:C	42:BH:31:GLY:H	2.21	0.43
43:BJ:25:UNK:O	43:BJ:26:UNK:CB	2.66	0.43
35:BA:558:G:OP2	45:BN:111:PRO:HD2	2.17	0.43
35:BA:1665:A:H1'	46:BO:1:MET:SD	2.59	0.43
49:BR:87:TYR:C	49:BR:89:ASP:H	2.22	0.43
51:BT:91:ARG:CG	51:BT:116:ALA:HA	2.45	0.43
51:BT:91:ARG:HG2	51:BT:116:ALA:CA	2.46	0.43
52:BU:12:ARG:HA	52:BU:15:LYS:HE2	1.99	0.43
52:BU:80:ILE:CG2	52:BU:80:ILE:O	2.66	0.43
54:BW:82:LEU:HD12	54:BW:82:LEU:HA	1.82	0.43
56:BY:67:LEU:HD23	56:BY:67:LEU:C	2.38	0.43
57:BZ:169:GLU:O	57:BZ:170:THR:C	2.56	0.43
57:BZ:31:ARG:HG3	57:BZ:32:HIS:ND1	2.34	0.43
1:AA:1153:C:O2'	1:AA:1154:G:P	2.76	0.43
1:AA:1165:C:C4	1:AA:1166:G:N7	2.87	0.43
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.17	0.43
1:AA:1312:G:H2'	1:AA:1313:U:C6	2.52	0.43
1:AA:393:A:C6	1:AA:394:G:N7	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:502:G:C2	1:AA:544:G:C2	3.06	0.43
1:AA:591:U:C2	1:AA:649:G:N2	2.87	0.43
1:AA:594:G:C2'	1:AA:595:G:H5'	2.49	0.43
1:AA:682:G:C2	1:AA:683:G:C8	3.07	0.43
1:AA:80:G:H5'	1:AA:82:U:OP2	2.18	0.43
1:AA:915:A:C5	1:AA:916:G:C8	3.06	0.43
1:AA:971:G:H5''	1:AA:972:C:H5''	2.01	0.43
2:AB:74:LYS:HD2	2:AB:166:ASP:HB2	2.00	0.43
2:AB:211:ILE:H	2:AB:211:ILE:HG13	1.56	0.43
3:AC:101:LEU:HA	3:AC:101:LEU:HD23	1.64	0.43
3:AC:30:ARG:HG3	14:AN:37:PHE:O	2.19	0.43
4:AD:170:VAL:HG11	4:AD:174:LEU:HB3	2.01	0.43
5:AE:56:GLN:O	5:AE:59:GLY:N	2.50	0.43
6:AF:5:GLU:HG2	6:AF:62:TRP:HZ2	1.83	0.43
11:AK:64:ALA:O	11:AK:67:ASP:HB3	2.19	0.43
11:AK:71:LYS:HB2	11:AK:71:LYS:HE3	1.84	0.43
15:AO:56:LEU:HD23	15:AO:56:LEU:HA	1.83	0.43
16:AP:8:ARG:HB3	16:AP:28:ARG:NH1	2.33	0.43
17:AQ:60:ILE:CG1	17:AQ:61:GLU:N	2.81	0.43
17:AQ:18:THR:CG2	17:AQ:69:LYS:HD2	2.48	0.43
19:AS:38:SER:OG	19:AS:71:LEU:HD12	2.19	0.43
21:AU:13:ILE:HA	21:AU:22:ARG:NH1	2.33	0.43
22:AV:26:G:C5	22:AV:27:U:C5	3.07	0.43
24:AY:113:ILE:CG2	24:AY:114:ASP:N	2.58	0.43
24:AY:26:LYS:HG2	58:AY:1000:GCP:PB	2.58	0.43
24:AY:255:PHE:HE1	24:AY:275:TRP:HZ3	1.52	0.43
24:AY:281:PRO:C	24:AY:282:ARG:CD	2.87	0.43
24:AY:419:LEU:CD1	24:AY:449:VAL:HG12	2.36	0.43
24:AY:96:SER:HA	24:AY:99:THR:OG1	2.19	0.43
26:B1:46:LEU:HD11	26:B1:61:ARG:O	2.19	0.43
26:B1:94:LEU:CD1	26:B1:94:LEU:N	2.82	0.43
35:BA:1075:C:C4	35:BA:1076:C:N4	2.86	0.43
35:BA:1106:G:C2	35:BA:1107:G:H1'	2.53	0.43
35:BA:1290:C:O5'	35:BA:1290:C:H6	2.01	0.43
35:BA:1491:G:C2	35:BA:1500:G:N3	2.87	0.43
35:BA:1611:C:H42	35:BA:1620:G:H1	1.65	0.43
35:BA:1722:A:O2'	35:BA:1739:U:H5''	2.18	0.43
35:BA:1754:C:H5'	51:BT:101:PHE:CE2	2.53	0.43
35:BA:1835:G:N3	35:BA:1835:G:H2'	2.34	0.43
35:BA:1906:G:N7	35:BA:1929:G:H2'	2.33	0.43
35:BA:1953:A:H2	35:BA:2549:G:N3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1956:U:O2	35:BA:1985:G:H4'	2.19	0.43
35:BA:2102:U:C2'	35:BA:2103:C:O4'	2.60	0.43
35:BA:2127:G:C6	35:BA:2128:C:N4	2.87	0.43
35:BA:2345:G:N7	35:BA:2372:G:C2	2.86	0.43
35:BA:2283:C:N4	35:BA:2389:G:C6	2.87	0.43
35:BA:2438:U:C5'	35:BA:2600:A:H5'	2.49	0.43
35:BA:2551:C:H2'	35:BA:2552:U:C6	2.53	0.43
35:BA:2746:U:C3'	35:BA:2747:G:H5'	2.46	0.43
35:BA:2772:C:H2'	35:BA:2773:C:C6	2.53	0.43
35:BA:363(A):A:N3	35:BA:363(A):A:H2'	2.34	0.43
35:BA:495:G:H1'	54:BW:57:ASN:CG	2.39	0.43
35:BA:654(T):C:O5'	35:BA:654(T):C:H6	2.01	0.43
35:BA:770:G:C6	35:BA:771:G:C5	3.07	0.43
36:BB:37:C:N3	36:BB:48:A:O2'	2.49	0.43
36:BB:66:A:C6	36:BB:108:U:N3	2.86	0.43
37:BC:100:ILE:HG21	37:BC:126:LYS:HE3	2.01	0.43
35:BA:2591:C:OP1	38:BD:239:ARG:HB2	2.19	0.43
38:BD:27:THR:HB	38:BD:83:GLU:OE2	2.18	0.43
39:BE:38:THR:C	39:BE:40:GLU:N	2.71	0.43
40:BF:13:SER:O	40:BF:14:PRO:O	2.36	0.43
40:BF:17:ARG:HG3	40:BF:17:ARG:HH11	1.84	0.43
41:BG:59:GLU:HG3	41:BG:60:LEU:N	2.34	0.43
45:BN:22:THR:OG1	45:BN:25:ARG:CB	2.63	0.43
1:AA:1423:G:C5'	46:BO:49:ARG:NH1	2.79	0.43
47:BP:144:GLU:O	47:BP:144:GLU:HG2	2.19	0.43
47:BP:96:THR:O	47:BP:100:LEU:CD2	2.67	0.43
48:BQ:109:VAL:HG12	48:BQ:109:VAL:O	2.18	0.43
48:BQ:127:ILE:CD1	48:BQ:128:LYS:O	2.67	0.43
48:BQ:74:TYR:C	48:BQ:74:TYR:CD1	2.92	0.43
50:BS:106:ARG:HD3	50:BS:107:GLU:O	2.18	0.43
50:BS:23:ARG:O	50:BS:24:LEU:O	2.37	0.43
50:BS:84:GLN:O	50:BS:85:VAL:HG13	2.17	0.43
50:BS:24:LEU:HB2	50:BS:85:VAL:HG12	1.99	0.43
52:BU:59:ARG:HH11	52:BU:59:ARG:HG2	1.82	0.43
52:BU:92:ARG:CZ	53:BV:11:GLN:H	2.31	0.43
53:BV:95:LEU:HD23	53:BV:95:LEU:C	2.38	0.43
53:BV:96:ILE:N	53:BV:96:ILE:CD1	2.65	0.43
55:BX:11:PRO:HG2	55:BX:13:LEU:HG	2.01	0.43
55:BX:26:TYR:OH	55:BX:93:GLU:OE2	2.33	0.43
56:BY:86:ARG:O	56:BY:88:LYS:NZ	2.51	0.43
57:BZ:40:ASP:OD1	57:BZ:42:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:8:TYR:HD2	57:BZ:38:TYR:CZ	2.36	0.43
1:AA:1004:A:C2'	1:AA:1005:A:H5'	2.49	0.43
1:AA:1015:A:C6	1:AA:1016:A:C6	3.06	0.43
1:AA:1055:A:C8	1:AA:1055:A:O5'	2.72	0.43
1:AA:1327:C:C2'	1:AA:1328:C:H6	2.30	0.43
1:AA:1356:G:C2	1:AA:1357:A:C5	3.07	0.43
1:AA:1442(A):G:H22	51:BT:121:ILE:CG1	2.07	0.43
1:AA:1492:A:P	1:AA:1492:A:H8	2.41	0.43
1:AA:448:A:C2	1:AA:487:A:C2	3.07	0.43
1:AA:488:C:H6	1:AA:488:C:O5'	2.02	0.43
1:AA:557:G:H3'	1:AA:558:G:C8	2.54	0.43
1:AA:59:A:H5'	1:AA:60:A:C5'	2.49	0.43
1:AA:787:A:C2	1:AA:788:U:C1'	3.01	0.43
1:AA:825:G:C6	1:AA:876:G:C6	3.07	0.43
1:AA:874:G:C5	1:AA:875:C:C4	3.07	0.43
1:AA:8:A:H5'	5:AE:120:THR:O	2.19	0.43
1:AA:886:G:N2	1:AA:912:C:H1'	2.34	0.43
3:AC:12:LEU:HD23	3:AC:12:LEU:HA	1.74	0.43
3:AC:23:TYR:CE1	10:AJ:95:GLU:OE1	2.71	0.43
1:AA:619:U:O2	4:AD:134:ASP:OD1	2.36	0.43
5:AE:103:GLY:O	5:AE:106:PRO:HG2	2.18	0.43
7:AG:111:ARG:NH1	7:AG:113:GLU:OE2	2.52	0.43
7:AG:18:TYR:HB3	7:AG:59:LEU:HD13	2.00	0.43
9:AI:53:VAL:HG13	9:AI:95:LYS:HZ1	1.81	0.43
11:AK:27:ASN:CG	11:AK:28:THR:N	2.72	0.43
12:AL:102:ARG:HB2	12:AL:120:TYR:HA	1.99	0.43
1:AA:585:G:C4'	12:AL:8:ASN:HD22	2.21	0.43
10:AJ:53:PRO:CB	14:AN:42:ILE:HG13	2.48	0.43
6:AF:49:ALA:HB2	18:AR:78:LEU:O	2.17	0.43
18:AR:84:LYS:NZ	18:AR:84:LYS:N	2.67	0.43
1:AA:323:U:H4'	20:AT:22:ARG:HB2	2.01	0.43
24:AY:492:GLN:HB3	24:AY:504:ILE:CG1	2.49	0.43
26:B1:78:LYS:HB3	26:B1:78:LYS:HE2	1.80	0.43
27:B2:56:GLN:O	27:B2:57:ILE:C	2.57	0.43
31:B6:11:LEU:HD11	31:B6:51:GLU:HG3	2.01	0.43
35:BA:1013:C:H2'	35:BA:1014:U:C5'	2.46	0.43
35:BA:1015:G:N7	35:BA:1148:A:N1	2.65	0.43
35:BA:578:A:H4'	35:BA:1254:A:OP1	2.19	0.43
35:BA:131:G:C2	35:BA:132:G:C5	3.07	0.43
35:BA:1759:A:H2'	35:BA:1760:A:H8	1.83	0.43
35:BA:2115:G:N3	35:BA:2117:A:N7	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2235:G:N3	35:BA:2236:C:C6	2.86	0.43
35:BA:2297:C:C2'	35:BA:2298:A:H5'	2.48	0.43
35:BA:2354:G:C2	35:BA:2355:C:C5	3.07	0.43
35:BA:240:G:O2'	35:BA:257:A:N6	2.52	0.43
35:BA:2472:G:H8	35:BA:2472:G:OP2	2.00	0.43
35:BA:2049:G:C2	35:BA:2620:C:N3	2.87	0.43
35:BA:2640:G:C2'	35:BA:2641:G:H5''	2.47	0.43
35:BA:270:A:O2'	35:BA:271:A:H5'	2.18	0.43
35:BA:2729:G:H1'	39:BE:187:ALA:HB3	1.97	0.43
35:BA:272(E):G:H2'	35:BA:272(F):C:H6	1.84	0.43
35:BA:280:C:C5	35:BA:281:G:C5	3.07	0.43
35:BA:364:C:O2'	35:BA:365:C:H5'	2.19	0.43
35:BA:573:G:O2'	35:BA:574:C:H3'	2.18	0.43
35:BA:818:G:N2	35:BA:1190:G:C6	2.86	0.43
35:BA:870:A:C5	35:BA:871:U:C6	3.07	0.43
37:BC:131:LEU:HD22	37:BC:136:LEU:HD12	2.00	0.43
37:BC:171:ILE:CG2	37:BC:171:ILE:O	2.66	0.43
37:BC:44:HIS:CA	37:BC:171:ILE:O	2.67	0.43
38:BD:271:ILE:CG1	38:BD:272:ALA:N	2.82	0.43
38:BD:51:VAL:HG11	38:BD:54:ARG:HE	1.84	0.43
35:BA:1816:G:C8	38:BD:62:TYR:CZ	3.06	0.43
41:BG:102:PHE:CD1	41:BG:103:LEU:N	2.86	0.43
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.41	0.43
35:BA:1108:U:P	43:BJ:80:UNK:HA	2.58	0.43
44:BK:81:UNK:O	44:BK:82:UNK:CB	2.66	0.43
46:BO:104:ARG:O	46:BO:107:ARG:HB3	2.18	0.43
47:BP:140:ALA:O	47:BP:141:ALA:HB3	2.19	0.43
53:BV:10:LYS:HB2	53:BV:10:LYS:HE3	1.81	0.43
55:BX:26:TYR:HD1	55:BX:26:TYR:N	2.17	0.43
55:BX:57:LEU:HD22	55:BX:58:HIS:N	2.34	0.43
1:AA:1100:C:C2	1:AA:1102:A:H5'	2.54	0.43
1:AA:1113:C:H2'	1:AA:1114:C:O5'	2.19	0.43
1:AA:1117:G:C8	1:AA:1117:G:H5'	2.46	0.43
1:AA:1156:G:O2'	1:AA:1180:A:N1	2.51	0.43
1:AA:1204:A:C4	1:AA:1205:U:C6	3.07	0.43
1:AA:1284:C:C4	1:AA:1285:A:C5	3.06	0.43
1:AA:1412:C:C2	1:AA:1413:A:C8	3.06	0.43
1:AA:1430:C:N4	1:AA:1431:C:N4	2.66	0.43
1:AA:155:C:H2'	1:AA:156:G:C8	2.45	0.43
1:AA:253:U:OP1	17:AQ:67:LYS:NZ	2.37	0.43
1:AA:299:G:C2	1:AA:300:A:C2	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:587:G:C2	1:AA:755:G:C6	3.07	0.43
1:AA:757:U:H2'	1:AA:758:G:O4'	2.18	0.43
1:AA:80:G:H5''	1:AA:81:U:H5	1.83	0.43
1:AA:826:C:H4'	8:AH:12:ARG:HG2	2.01	0.43
1:AA:830:G:C6	1:AA:831:U:C4	3.07	0.43
1:AA:986:A:H2'	1:AA:987:G:H8	1.84	0.43
2:AB:108:ILE:O	2:AB:111:ARG:HB2	2.19	0.43
2:AB:195:ASP:N	2:AB:195:ASP:OD1	2.52	0.43
2:AB:70:PHE:H	2:AB:70:PHE:HD1	1.65	0.43
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.49	0.43
8:AH:104:ARG:HD2	8:AH:104:ARG:HA	1.86	0.43
8:AH:38:ILE:HG21	8:AH:120:THR:HG22	2.01	0.43
9:AI:112:LYS:HD3	9:AI:113:LYS:N	2.34	0.43
11:AK:14:VAL:HG21	11:AK:35:PRO:HD3	2.01	0.43
12:AL:102:ARG:HH21	12:AL:110:VAL:CG2	2.30	0.43
13:AM:79:LYS:C	13:AM:81:LEU:N	2.71	0.43
14:AN:47:LEU:HD12	14:AN:53:LEU:HD21	1.99	0.43
15:AO:77:ARG:O	15:AO:81:LEU:CB	2.66	0.43
17:AQ:40:LYS:CD	17:AQ:42:TYR:CZ	2.85	0.43
17:AQ:83:ASP:OD1	17:AQ:84:LEU:N	2.47	0.43
19:AS:15:LEU:O	19:AS:19:VAL:N	2.48	0.43
24:AY:164:ILE:HD11	24:AY:252:THR:CG2	2.34	0.43
24:AY:420:SER:CB	24:AY:426:GLN:HA	2.48	0.43
24:AY:84:VAL:CG1	24:AY:85:ASN:N	2.82	0.43
25:B0:37:LEU:O	25:B0:38:VAL:HG23	2.19	0.43
25:B0:41:ARG:HA	25:B0:41:ARG:HD2	1.54	0.43
30:B5:14:ALA:O	30:B5:18:ALA:HB2	2.18	0.43
33:B8:52:LYS:H	33:B8:53:PRO:HD2	1.81	0.43
35:BA:1107:G:OP2	35:BA:1107:G:C8	2.72	0.43
35:BA:1149:G:H2'	35:BA:1150:C:H6	1.80	0.43
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.54	0.43
35:BA:1438:U:H2'	35:BA:1439:A:H8	1.83	0.43
35:BA:1464:C:HO2'	35:BA:1528:A:H8	1.61	0.43
35:BA:1475:G:H5'	35:BA:1476:C:OP2	2.17	0.43
35:BA:1466:G:H2'	35:BA:1547:C:N4	2.34	0.43
35:BA:1936:A:H5''	35:BA:1940:U:C5	2.53	0.43
35:BA:2206:G:N3	35:BA:2206:G:C3'	2.80	0.43
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.54	0.43
35:BA:2329:G:N2	35:BA:2386:C:N3	2.51	0.43
35:BA:2466:C:H2'	35:BA:2467:C:C6	2.53	0.43
35:BA:252:G:H2'	35:BA:253:C:H6	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1966:A:H2	35:BA:2592:G:N3	2.16	0.43
35:BA:271(Q):G:O2'	35:BA:271(R):G:OP2	2.36	0.43
35:BA:434:U:O2'	35:BA:436:C:N4	2.52	0.43
35:BA:481:G:OP2	56:BY:47:LYS:HD2	2.18	0.43
35:BA:852:G:H2'	35:BA:853:G:O4'	2.19	0.43
35:BA:953:A:H2	35:BA:965:C:O2	2.01	0.43
37:BC:23:ASP:O	37:BC:27:HIS:HB2	2.17	0.43
37:BC:10:LEU:HG	37:BC:32:LEU:O	2.19	0.43
37:BC:59:ARG:O	37:BC:59:ARG:HG2	2.18	0.43
38:BD:203:ASN:O	38:BD:204:ILE:C	2.54	0.43
38:BD:65:ILE:CD1	38:BD:88:ARG:NH1	2.82	0.43
35:BA:2578:G:H1'	39:BE:139:GLY:HA2	2.00	0.43
39:BE:36:ARG:HG2	39:BE:36:ARG:HH11	1.83	0.43
35:BA:616:G:H5'	40:BF:107:LYS:NZ	2.33	0.43
40:BF:44:ARG:O	40:BF:45:ARG:C	2.57	0.43
40:BF:88:VAL:HG22	40:BF:89:VAL:N	2.34	0.43
41:BG:143:GLU:O	41:BG:144:ILE:C	2.57	0.43
41:BG:107:LEU:CD2	41:BG:178:PHE:CE1	3.02	0.43
41:BG:57:ALA:O	41:BG:60:LEU:N	2.44	0.43
29:B4:6:HIS:HA	41:BG:67:LYS:HD2	1.99	0.43
42:BH:41:MET:HE2	42:BH:42:ARG:O	2.18	0.43
45:BN:7:LYS:O	45:BN:8:GLN:C	2.57	0.43
46:BO:11:ALA:O	46:BO:99:PHE:N	2.51	0.43
47:BP:80:TYR:HB3	47:BP:81:GLN:H	1.57	0.43
51:BT:31:SER:N	51:BT:43:GLN:O	2.51	0.43
52:BU:42:ALA:C	52:BU:44:ASN:N	2.70	0.43
54:BW:76:VAL:CG2	54:BW:103:ILE:HG23	2.48	0.43
56:BY:80:GLY:O	56:BY:81:LYS:C	2.57	0.43
1:AA:1098:C:N3	1:AA:1099:G:C8	2.87	0.43
1:AA:1401:G:C2	1:AA:1402:C:H1'	2.54	0.43
1:AA:1440:C:H2'	1:AA:1441:G:C5'	2.49	0.43
1:AA:1484:C:O2'	35:BA:1961:C:C5'	2.57	0.43
1:AA:286:G:H2'	1:AA:287:U:O4'	2.18	0.43
1:AA:730:G:C4	1:AA:731:G:H1'	2.54	0.43
1:AA:738:C:C2	1:AA:739:C:C5	3.07	0.43
1:AA:944:G:C2	1:AA:1340:A:N6	2.87	0.43
2:AB:102:LEU:H	2:AB:102:LEU:HD13	1.83	0.43
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.33	0.43
2:AB:219:VAL:HG12	2:AB:223:ILE:HD11	2.00	0.43
3:AC:11:ARG:O	3:AC:12:LEU:C	2.56	0.43
1:AA:532:A:C2	3:AC:156:ARG:NH2	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.18	0.43
8:AH:134:ILE:HD13	8:AH:134:ILE:HA	1.75	0.43
9:AI:97:LYS:O	9:AI:98:PRO:C	2.57	0.43
11:AK:43:SER:OG	11:AK:44:SER:N	2.51	0.43
12:AL:104:VAL:HG12	12:AL:105:TYR:N	2.33	0.43
12:AL:83:VAL:HG11	12:AL:107:ALA:HB2	1.98	0.43
1:AA:1060:C:C5'	14:AN:45:ARG:HH21	2.31	0.43
15:AO:4:THR:O	15:AO:7:GLU:CA	2.67	0.43
18:AR:22:VAL:HB	18:AR:56:THR:HA	2.00	0.43
24:AY:173:ILE:HG23	24:AY:227:LEU:HD11	2.01	0.43
24:AY:395:PRO:HG3	24:AY:439:GLY:HA3	2.00	0.43
24:AY:488:LYS:CD	24:AY:518:TYR:OH	2.66	0.43
25:B0:48:GLY:O	25:B0:49:LYS:C	2.56	0.43
26:B1:82:LEU:C	26:B1:83:GLU:HG3	2.38	0.43
27:B2:65:ASN:C	27:B2:67:LYS:N	2.72	0.43
30:B5:45:VAL:HG13	30:B5:51:TYR:HD1	1.83	0.43
35:BA:1009:A:O5'	35:BA:1009:A:H8	2.01	0.43
35:BA:116:C:C2'	35:BA:117:G:H5'	2.49	0.43
35:BA:816:C:N4	35:BA:1192:G:N1	2.65	0.43
35:BA:1332:G:H5'	35:BA:1333:C:H5	1.82	0.43
35:BA:1335:U:O5'	35:BA:1335:U:H6	2.01	0.43
35:BA:143:G:C6	35:BA:143(A):C:C4	3.07	0.43
35:BA:1671:U:O5'	35:BA:1671:U:H6	2.02	0.43
35:BA:1678:G:H1'	35:BA:1991:U:C1'	2.49	0.43
35:BA:1998:G:C6	35:BA:1999:C:C4	3.06	0.43
35:BA:1266:G:O2'	35:BA:2012:G:N1	2.52	0.43
35:BA:2038:G:C6	35:BA:2039:C:C4	3.06	0.43
35:BA:2282:G:C2	35:BA:2425:A:C6	3.07	0.43
35:BA:2308:G:N2	35:BA:2309:A:N6	2.67	0.43
35:BA:2314:C:N4	35:BA:2315:G:O6	2.52	0.43
35:BA:2513:G:C6	35:BA:2514:U:C4	3.06	0.43
35:BA:2051:A:C5'	35:BA:2578:G:O5'	2.66	0.43
35:BA:25:U:H4'	54:BW:79:GLY:HA2	2.00	0.43
35:BA:285:C:O2'	35:BA:286:C:H5'	2.18	0.43
35:BA:2870:C:OP1	49:BR:61:HIS:CE1	2.66	0.43
35:BA:49:A:N1	35:BA:118:A:C2	2.87	0.43
35:BA:519:U:H2'	35:BA:520:G:H8	1.82	0.43
35:BA:607:U:N3	35:BA:620:G:C4	2.87	0.43
35:BA:660:G:O3'	40:BF:38:ARG:NH2	2.52	0.43
35:BA:59:U:O2'	35:BA:73:A:H2'	2.19	0.43
35:BA:786:C:O2'	35:BA:787:U:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:73:A:C2'	36:BB:74:U:H5'	2.48	0.43
37:BC:3:HIS:CB	37:BC:7:TYR:CD2	3.00	0.43
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.19	0.43
38:BD:69:ARG:NE	38:BD:105:ILE:CD1	2.75	0.43
40:BF:73:ALA:O	40:BF:75:HIS:CD2	2.72	0.43
41:BG:139:LEU:HB2	41:BG:146:TYR:CD1	2.49	0.43
42:BH:38:SER:CB	42:BH:64:LEU:HD21	2.49	0.43
43:BJ:119:UNK:O	43:BJ:120:UNK:CB	2.67	0.43
43:BJ:48:UNK:O	43:BJ:49:UNK:CB	2.67	0.43
46:BO:107:ARG:NH1	51:BT:36:GLU:HG3	2.32	0.43
46:BO:119:PRO:HG2	46:BO:120:GLU:H	1.83	0.43
46:BO:8:LEU:N	46:BO:8:LEU:CD1	2.82	0.43
47:BP:62:LEU:HD23	47:BP:62:LEU:H	1.80	0.43
47:BP:80:TYR:HA	47:BP:111:ARG:HB2	2.00	0.43
49:BR:37:THR:OG1	49:BR:40:LYS:HB2	2.19	0.43
51:BT:8:LYS:HA	51:BT:11:GLU:CD	2.39	0.43
51:BT:5:ALA:HA	51:BT:8:LYS:HG3	2.01	0.43
53:BV:81:TYR:CE1	53:BV:83:ARG:NE	2.74	0.43
56:BY:17:SER:CB	56:BY:71:LYS:HE2	2.49	0.43
57:BZ:128:VAL:HG13	57:BZ:133:ILE:CD1	2.49	0.43
57:BZ:57:ILE:CD1	57:BZ:70:LEU:HA	2.42	0.43
1:AA:1001:A:H1'	1:AA:1001(A):G:N2	2.33	0.43
1:AA:1095:U:O2'	1:AA:1096:C:H5'	2.19	0.43
1:AA:1203:C:O5'	1:AA:1203:C:H6	2.00	0.43
1:AA:527:G:O2'	1:AA:535:A:N1	2.39	0.43
1:AA:604:G:C6	1:AA:605:U:C4	3.07	0.43
1:AA:747:C:C5	1:AA:748:C:O2	2.71	0.43
1:AA:865:A:H5'	1:AA:1078:U:C4	2.54	0.43
1:AA:980:C:C6	1:AA:981:U:C2	3.07	0.43
2:AB:218:ALA:O	2:AB:221:LEU:N	2.52	0.43
2:AB:44:LEU:CA	2:AB:47:THR:OG1	2.65	0.43
2:AB:51:LEU:HA	2:AB:54:THR:HB	2.01	0.43
3:AC:111:LEU:HA	3:AC:111:LEU:HD23	1.73	0.43
5:AE:80:ILE:HD11	5:AE:138:ALA:CA	2.47	0.43
5:AE:95:ALA:O	5:AE:96:PRO:C	2.58	0.43
7:AG:116:ALA:O	7:AG:117:ALA:C	2.57	0.43
1:AA:642:A:N7	8:AH:115:SER:HA	2.34	0.43
10:AJ:9:ARG:HG2	10:AJ:69:ASN:HA	2.01	0.43
10:AJ:82:ILE:O	10:AJ:86:MET:CB	2.67	0.43
11:AK:40:ILE:CG2	11:AK:75:TYR:CD2	3.02	0.43
13:AM:53:VAL:HG12	13:AM:54:VAL:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:38:ARG:HD2	15:AO:38:ARG:HA	1.75	0.43
1:AA:667:G:C4'	15:AO:51:HIS:HD1	2.32	0.43
1:AA:580:U:OP1	15:AO:54:ARG:NH2	2.52	0.43
16:AP:5:ARG:HB2	16:AP:6:LEU:H	1.55	0.43
20:AT:19:SER:HA	20:AT:22:ARG:HD2	1.99	0.43
24:AY:131:ARG:HH22	24:AY:162:LEU:CD1	2.32	0.43
24:AY:168:PRO:CG	24:AY:171:TRP:CH2	3.02	0.43
24:AY:190:THR:HG22	24:AY:192:LEU:CD1	2.49	0.43
24:AY:198:GLY:CA	24:AY:262:ASN:ND2	2.82	0.43
24:AY:346:LEU:CB	24:AY:366:GLY:HA3	2.31	0.43
24:AY:384:MET:O	24:AY:385:MET:HB3	2.19	0.43
25:B0:51:VAL:HG21	25:B0:80:HIS:CA	2.49	0.43
27:B2:36:ARG:HH21	55:BX:9:LEU:HA	1.84	0.43
29:B4:42:PHE:CG	29:B4:42:PHE:O	2.72	0.43
35:BA:1153:C:O2	35:BA:1153:C:H2'	2.18	0.43
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.19	0.43
35:BA:1415:U:H3'	35:BA:1415:U:H6	1.84	0.43
35:BA:150:C:H2'	35:BA:151:C:C6	2.53	0.43
35:BA:1572:A:O2'	35:BA:1573:G:C5'	2.55	0.43
35:BA:1382:G:H4'	35:BA:1573:G:N2	2.33	0.43
35:BA:1701:A:H3'	35:BA:1702:G:H8	1.84	0.43
35:BA:1718:G:C8	35:BA:1718:G:H5'	2.53	0.43
35:BA:1754:C:OP2	51:BT:113:LYS:HD2	2.19	0.43
35:BA:1791:A:H3'	35:BA:1792:G:C8	2.54	0.43
35:BA:1800:C:N3	35:BA:1818:U:O2	2.51	0.43
35:BA:1916:A:H8	35:BA:1916:A:O5'	2.02	0.43
35:BA:1928:A:H2'	35:BA:1929:G:O4'	2.19	0.43
35:BA:1952:A:C6	46:BO:22:ILE:CD1	2.98	0.43
35:BA:1970:A:C4	35:BA:1972:A:N7	2.87	0.43
35:BA:2046:G:N2	35:BA:2047:U:C2	2.87	0.43
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.19	0.43
35:BA:2234:G:N3	35:BA:2235:G:C8	2.87	0.43
35:BA:644:A:H2	35:BA:2369:A:O2'	2.01	0.43
35:BA:2400:G:N1	35:BA:2401:U:O2	2.52	0.43
35:BA:2415:G:H2'	35:BA:2416:C:O4'	2.19	0.43
35:BA:2447:G:C4	35:BA:2501:C:N3	2.87	0.43
35:BA:2496:C:O2'	35:BA:2497:A:C5'	2.67	0.43
35:BA:247:G:N2	35:BA:250:G:H5''	2.34	0.43
35:BA:2691:C:C5'	35:BA:2691:C:H6	2.28	0.43
35:BA:2821:A:H2'	35:BA:2822:G:H8	1.79	0.43
35:BA:362:U:O5'	35:BA:363:G:OP2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:528:A:H2	35:BA:2043:C:C5'	2.30	0.43
35:BA:587:C:H5''	35:BA:588:U:H5'	2.00	0.43
35:BA:638:G:C6	35:BA:651:G:N1	2.87	0.43
35:BA:601:C:H42	35:BA:656:G:H1	1.67	0.43
35:BA:781:A:H4'	38:BD:221:VAL:HG11	2.01	0.43
35:BA:862:G:H2'	35:BA:863:A:H8	1.78	0.43
36:BB:21:G:O4'	36:BB:21:G:N3	2.52	0.43
36:BB:56:G:O2'	36:BB:57:A:OP2	2.32	0.43
38:BD:92:ILE:CA	38:BD:105:ILE:O	2.67	0.43
35:BA:2052:G:H4'	39:BE:143:ASN:N	2.33	0.43
39:BE:59:VAL:CG1	39:BE:63:LEU:HG	2.48	0.43
40:BF:172:TRP:N	40:BF:172:TRP:CD1	2.87	0.43
45:BN:27:ALA:HA	45:BN:30:ILE:CG1	2.48	0.43
45:BN:70:LYS:C	45:BN:71:ILE:HG13	2.40	0.43
45:BN:93:THR:O	45:BN:94:HIS:HB2	2.18	0.43
45:BN:99:LEU:HA	45:BN:99:LEU:HD22	1.70	0.43
47:BP:71:VAL:C	47:BP:73:GLY:N	2.72	0.43
48:BQ:42:ILE:HD11	48:BQ:126:PRO:CG	2.49	0.43
48:BQ:54:MET:HB3	48:BQ:55:VAL:H	1.67	0.43
49:BR:100:LEU:N	49:BR:100:LEU:HD13	2.34	0.43
35:BA:2839:G:H1'	49:BR:93:GLY:H	1.82	0.43
50:BS:102:ALA:O	50:BS:103:GLU:C	2.57	0.43
52:BU:53:ARG:O	52:BU:56:ASP:HB2	2.19	0.43
55:BX:35:THR:HG22	55:BX:37:THR:N	2.33	0.43
55:BX:24:GLY:CA	55:BX:82:GLN:NE2	2.82	0.43
57:BZ:14:LYS:O	57:BZ:18:LEU:CD2	2.67	0.43
57:BZ:125:LEU:CD2	57:BZ:164:ALA:HB3	2.49	0.43
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.18	0.42
1:AA:100:C:H2'	1:AA:101:A:C8	2.54	0.42
1:AA:1088:G:H2'	1:AA:1089:G:O4'	2.18	0.42
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.84	0.42
1:AA:1179:A:N6	1:AA:1180:A:N1	2.66	0.42
1:AA:1225:A:OP2	13:AM:104:ARG:HB2	2.18	0.42
1:AA:1305:G:H5''	21:AU:5:ASP:H	1.84	0.42
1:AA:1308:U:C5	13:AM:99:ARG:CZ	3.01	0.42
1:AA:1407:C:C4	1:AA:1408:A:N7	2.87	0.42
1:AA:286:G:C5	1:AA:287:U:C5	3.07	0.42
1:AA:123:C:O2'	1:AA:290:C:H1'	2.19	0.42
1:AA:300:A:N3	1:AA:565:U:C2	2.87	0.42
1:AA:313:A:C2	1:AA:314:C:C2	3.06	0.42
1:AA:562:C:H41	1:AA:884:U:C2'	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:678:U:C4	1:AA:679:C:C4	3.06	0.42
1:AA:877:C:H5''	8:AH:88:LYS:CD	2.44	0.42
1:AA:918:A:C5	1:AA:919:A:C6	3.07	0.42
1:AA:983:A:O2'	1:AA:1050:G:OP2	2.36	0.42
2:AB:121:LEU:HG	2:AB:126:GLU:CB	2.46	0.42
4:AD:18:LYS:CE	4:AD:31:CYS:HB3	2.49	0.42
8:AH:20:TYR:HE1	8:AH:76:PRO:HG2	1.82	0.42
11:AK:114:VAL:HG23	11:AK:115:PRO:HD2	2.00	0.42
12:AL:85:ILE:HA	12:AL:85:ILE:HD13	1.70	0.42
13:AM:69:GLU:HG3	13:AM:69:GLU:O	2.19	0.42
14:AN:26:ARG:HB3	14:AN:27:CYS:H	1.76	0.42
14:AN:57:ARG:CG	14:AN:57:ARG:NH1	2.80	0.42
15:AO:71:GLN:HA	15:AO:75:PRO:HB3	2.01	0.42
24:AY:21:HIS:CD2	24:AY:122:ARG:CB	2.96	0.42
24:AY:183:TYR:HD2	24:AY:184:HIS:N	2.16	0.42
24:AY:209:GLY:O	24:AY:210:LEU:O	2.37	0.42
24:AY:282:ARG:HG2	24:AY:319:ARG:NH2	2.34	0.42
24:AY:395:PRO:CG	24:AY:398:PHE:CZ	2.99	0.42
25:B0:45:PHE:O	25:B0:59:LEU:HD11	2.19	0.42
25:B0:38:VAL:CB	25:B0:59:LEU:HD12	2.49	0.42
29:B4:10:VAL:CG2	29:B4:11:PRO:CD	2.92	0.42
30:B5:16:ARG:HG2	30:B5:17:ASP:OD1	2.19	0.42
33:B8:37:SER:HG	33:B8:40:GLU:HG3	1.82	0.42
35:BA:1141:U:OP2	45:BN:63:THR:CG2	2.55	0.42
35:BA:1238:G:N2	35:BA:1239:G:C1'	2.82	0.42
35:BA:1316:U:C2	35:BA:1337:G:N2	2.87	0.42
35:BA:1343:G:H1	35:BA:1404:C:H42	1.67	0.42
35:BA:1649:G:H2'	35:BA:1650:G:O5'	2.19	0.42
35:BA:1844:C:N3	35:BA:1845:G:N7	2.66	0.42
35:BA:1895:C:C5'	35:BA:1895:C:H6	2.25	0.42
35:BA:199:A:C2	35:BA:2433:A:C4	3.06	0.42
35:BA:2059:A:O3'	40:BF:69:HIS:HA	2.18	0.42
35:BA:2161:C:H2'	35:BA:2162:G:C8	2.45	0.42
35:BA:2441:C:O2'	35:BA:2442:C:H5'	2.18	0.42
35:BA:1669:A:OP2	35:BA:2550:G:OP1	2.36	0.42
35:BA:2821:A:N6	35:BA:2822:G:C6	2.87	0.42
35:BA:2048:G:H4'	35:BA:2823:A:C2	2.54	0.42
35:BA:2007:C:C4'	35:BA:2824:C:H4'	2.49	0.42
35:BA:372:G:O3'	35:BA:373:U:H6	2.02	0.42
35:BA:481:G:H4'	35:BA:481:G:OP1	2.19	0.42
30:B5:13:LYS:NZ	35:BA:516:C:OP1	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:670:A:H4'	35:BA:671:C:C5'	2.49	0.42
36:BB:101:G:H2'	36:BB:102:A:C1'	2.49	0.42
38:BD:208:LYS:HG2	38:BD:210:GLY:O	2.19	0.42
38:BD:3:VAL:HG22	38:BD:200:ASP:OD2	2.19	0.42
38:BD:62:TYR:CD1	38:BD:63:ARG:N	2.87	0.42
39:BE:172:VAL:C	39:BE:174:ASP:N	2.72	0.42
40:BF:131:GLY:HA3	40:BF:138:GLU:O	2.19	0.42
41:BG:133:LEU:HD13	41:BG:135:LEU:HD13	2.01	0.42
42:BH:67:LEU:C	42:BH:71:LEU:HB2	2.39	0.42
45:BN:22:THR:O	45:BN:26:LEU:CB	2.66	0.42
45:BN:28:THR:HG23	45:BN:29:LYS:N	2.34	0.42
45:BN:19:GLU:HG2	45:BN:56:ASN:OD1	2.19	0.42
48:BQ:110:THR:O	48:BQ:113:GLN:N	2.42	0.42
49:BR:104:ARG:O	49:BR:106:GLY:N	2.50	0.42
35:BA:1275:A:C6	49:BR:16:HIS:HA	2.54	0.42
50:BS:106:ARG:HD2	50:BS:107:GLU:O	2.18	0.42
50:BS:106:ARG:NH1	50:BS:107:GLU:C	2.69	0.42
50:BS:26:LEU:HD22	50:BS:26:LEU:O	2.18	0.42
51:BT:28:VAL:O	51:BT:29:ARG:HB2	2.19	0.42
52:BU:110:VAL:O	52:BU:114:LYS:HG2	2.19	0.42
53:BV:43:GLU:O	53:BV:44:LYS:HG3	2.18	0.42
56:BY:65:ALA:HA	56:BY:66:PRO:HD3	1.79	0.42
57:BZ:53:ILE:HG22	57:BZ:71:VAL:CG2	2.49	0.42
1:AA:1092:A:OP1	7:AG:5:ARG:NH2	2.47	0.42
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.19	0.42
1:AA:1139:G:N2	1:AA:1143:G:C2	2.86	0.42
1:AA:1212:U:H2'	1:AA:1212:U:H6	1.64	0.42
1:AA:1286:A:O2'	1:AA:1287:A:P	2.77	0.42
1:AA:1442(B):A:O2'	1:AA:1443:G:C8	2.71	0.42
1:AA:253:U:O2'	1:AA:254:G:H5'	2.19	0.42
1:AA:505:G:C6	1:AA:535:A:C2	3.07	0.42
1:AA:60:A:OP1	1:AA:60:A:H8	2.01	0.42
1:AA:686:U:C2	1:AA:687:A:N7	2.87	0.42
1:AA:848:C:H2'	1:AA:849:C:O4'	2.19	0.42
1:AA:874:G:H2'	1:AA:875:C:O5'	2.19	0.42
1:AA:929:G:C2	1:AA:930:C:C2	3.07	0.42
1:AA:978:A:OP1	1:AA:980:C:N4	2.52	0.42
3:AC:141:VAL:O	3:AC:144:SER:HB3	2.19	0.42
4:AD:59:ARG:NH1	4:AD:59:ARG:HG2	2.28	0.42
4:AD:9:CYS:C	4:AD:12:CYS:HB2	2.40	0.42
8:AH:28:ALA:CB	8:AH:57:PRO:HB2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:95:LYS:HB2	9:AI:95:LYS:HE2	1.58	0.42
10:AJ:16:LEU:HD22	10:AJ:16:LEU:O	2.19	0.42
11:AK:33:THR:HA	11:AK:39:PRO:CA	2.40	0.42
13:AM:29:ARG:NH2	13:AM:64:TRP:CB	2.80	0.42
14:AN:8:GLU:O	14:AN:11:LYS:N	2.51	0.42
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.31	0.42
19:AS:49:ILE:N	19:AS:49:ILE:CD1	2.77	0.42
1:AA:1220:G:N2	19:AS:54:GLY:CA	2.79	0.42
21:AU:18:TYR:CE2	21:AU:24:ARG:HA	2.54	0.42
24:AY:202:GLN:O	24:AY:203:GLU:O	2.38	0.42
24:AY:299:PHE:CE1	24:AY:387:PHE:HE1	2.37	0.42
24:AY:454:LYS:C	24:AY:454:LYS:HD3	2.40	0.42
24:AY:467:ASN:O	24:AY:506:THR:HG23	2.19	0.42
24:AY:65:GLN:O	24:AY:66:ARG:C	2.58	0.42
30:B5:37:LYS:HG3	30:B5:37:LYS:O	2.19	0.42
30:B5:39:MET:O	54:BW:38:TYR:CE2	2.71	0.42
34:B9:17:ILE:CG2	34:B9:18:ARG:N	2.82	0.42
35:BA:1057:A:H2	35:BA:1082:U:N3	2.09	0.42
35:BA:1009:A:N3	35:BA:1154:G:H5'	2.34	0.42
35:BA:119:A:H4'	35:BA:120:U:H5'	2.01	0.42
35:BA:1528:A:N1	35:BA:1542:A:H2	2.16	0.42
35:BA:1653:G:C2'	35:BA:1654:A:OP2	2.67	0.42
35:BA:1664:A:OP1	35:BA:1665:A:OP2	2.37	0.42
35:BA:1859:A:N6	35:BA:1883:G:O2'	2.52	0.42
35:BA:1886:C:O2'	35:BA:1887:C:H5'	2.19	0.42
35:BA:1919:A:C2	35:BA:1920:C:O4'	2.72	0.42
35:BA:1970:A:H5''	35:BA:1971:A:OP1	2.19	0.42
35:BA:2050:C:H6	35:BA:2050:C:O5'	2.02	0.42
35:BA:2333:A:C1'	35:BA:2335:A:C5	3.02	0.42
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.18	0.42
35:BA:792:G:O2'	35:BA:2440:C:N3	2.46	0.42
35:BA:2443:C:C6	35:BA:2443:C:C3'	3.02	0.42
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.19	0.42
35:BA:2746:U:O2'	35:BA:2747:G:H5'	2.18	0.42
35:BA:2641:G:C2	35:BA:2774:C:N3	2.87	0.42
35:BA:2801(A):A:C4'	35:BA:2802:G:H2'	2.48	0.42
35:BA:428:A:C6	35:BA:429:A:C2	3.07	0.42
35:BA:587:C:N4	47:BP:33:ARG:HB3	2.34	0.42
32:B7:3:ARG:O	35:BA:687:C:H4'	2.19	0.42
35:BA:84:A:N3	35:BA:85:G:H1'	2.34	0.42
35:BA:837:C:C4	35:BA:941:A:N6	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:73:A:C2	36:BB:74:U:H1'	2.54	0.42
37:BC:213:TYR:CE1	37:BC:223:ARG:HG3	2.54	0.42
37:BC:41:VAL:CG1	37:BC:43:VAL:HG23	2.47	0.42
38:BD:143:HIS:CG	38:BD:143:HIS:O	2.72	0.42
38:BD:250:TRP:HE3	38:BD:252:TRP:HE1	1.67	0.42
38:BD:182:LEU:H	38:BD:272:ALA:CA	2.31	0.42
39:BE:27:LEU:HD23	51:BT:1:MET:N	2.34	0.42
41:BG:170:ARG:O	41:BG:174:GLU:CB	2.67	0.42
41:BG:71:THR:HG22	41:BG:72:ARG:H	1.80	0.42
45:BN:65:LYS:CD	45:BN:69:GLN:NE2	2.82	0.42
47:BP:47:ASP:OD2	47:BP:49:ARG:CB	2.62	0.42
48:BQ:38:GLU:O	48:BQ:127:ILE:HD13	2.19	0.42
50:BS:89:ARG:O	50:BS:90:GLY:O	2.37	0.42
51:BT:28:VAL:O	51:BT:29:ARG:CB	2.68	0.42
53:BV:95:LEU:HD22	53:BV:97:LYS:CD	2.50	0.42
54:BW:6:ILE:HG12	54:BW:104:THR:CG2	2.47	0.42
55:BX:28:PHE:CZ	55:BX:81:VAL:CG2	2.97	0.42
57:BZ:127:LYS:O	57:BZ:128:VAL:HB	2.18	0.42
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.54	0.42
1:AA:1131:G:C2	1:AA:1132:C:N4	2.87	0.42
1:AA:1202:G:O5'	1:AA:1202:G:H8	2.02	0.42
1:AA:1489:G:C4	1:AA:1490:C:C5	3.07	0.42
1:AA:543:C:P	4:AD:10:ARG:NH1	2.91	0.42
1:AA:583:A:C2	1:AA:584:G:H1'	2.55	0.42
1:AA:720:C:H3'	1:AA:721:G:H8	1.80	0.42
2:AB:145:LEU:HA	2:AB:145:LEU:HD22	1.75	0.42
2:AB:14:GLY:C	2:AB:15:VAL:CG2	2.83	0.42
2:AB:42:ILE:HD12	2:AB:202:PRO:C	2.39	0.42
2:AB:82:ARG:CG	2:AB:82:ARG:HH11	2.32	0.42
3:AC:113:ALA:HB2	3:AC:202:ILE:HG13	2.01	0.42
3:AC:47:LEU:HD12	3:AC:47:LEU:HA	1.88	0.42
4:AD:158:ILE:O	4:AD:162:LEU:HD23	2.18	0.42
5:AE:105:VAL:N	5:AE:106:PRO:CD	2.82	0.42
5:AE:76:ILE:HG13	5:AE:77:PRO:N	2.34	0.42
5:AE:82:VAL:HB	5:AE:89:ILE:HG23	2.01	0.42
6:AF:12:PRO:HD2	6:AF:55:ASP:OD2	2.19	0.42
7:AG:120:ILE:O	7:AG:123:GLU:N	2.52	0.42
7:AG:26:PHE:CE2	7:AG:124:LEU:HD11	2.54	0.42
8:AH:9:MET:CG	8:AH:26:VAL:HG21	2.49	0.42
9:AI:76:ALA:O	9:AI:79:LEU:HB3	2.20	0.42
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:82:ILE:O	10:AJ:86:MET:HB3	2.20	0.42
12:AL:43:VAL:HG23	12:AL:53:ARG:CB	2.49	0.42
15:AO:15:PHE:N	15:AO:15:PHE:HD1	2.15	0.42
18:AR:38:GLU:O	18:AR:41:LYS:HB3	2.19	0.42
19:AS:44:MET:CE	29:B4:47:GLN:NE2	2.83	0.42
20:AT:72:LEU:HD21	20:AT:80:ARG:NH2	2.32	0.42
20:AT:82:SER:O	20:AT:86:ARG:CB	2.67	0.42
23:AX:17:U:H2'	23:AX:18:G:C5'	2.49	0.42
24:AY:207:VAL:HG11	24:AY:215:LEU:HA	2.00	0.42
24:AY:425:VAL:HG12	24:AY:445:GLN:HG3	1.92	0.42
24:AY:506:THR:O	24:AY:507:SER:HB3	2.19	0.42
25:B0:43:THR:HB	35:BA:2331:G:O2'	2.19	0.42
25:B0:53:MET:N	25:B0:60:PHE:CE2	2.87	0.42
26:B1:80:LEU:CD2	26:B1:81:LYS:N	2.79	0.42
28:B3:8:LEU:HD21	28:B3:31:LEU:HG	2.01	0.42
29:B4:9:LEU:HD11	29:B4:26:SER:N	2.33	0.42
30:B5:9:LYS:HD3	30:B5:9:LYS:HA	1.60	0.42
32:B7:10:ARG:HD3	35:BA:770:G:H5''	2.01	0.42
32:B7:13:ALA:HB1	35:BA:125:G:C1'	2.48	0.42
32:B7:7:PRO:HG3	35:BA:1612:C:C5'	2.46	0.42
28:B3:30:ARG:NH2	35:BA:1158:C:OP1	2.36	0.42
35:BA:1171:G:OP2	35:BA:1171:G:H8	2.02	0.42
35:BA:1299:G:H4'	35:BA:1301:A:C4	2.54	0.42
35:BA:1360:A:N3	35:BA:1360:A:H2'	2.34	0.42
35:BA:1456:G:N2	35:BA:2704:C:C2	2.88	0.42
35:BA:1491:G:C6	35:BA:1500:G:N2	2.87	0.42
35:BA:1527:G:O2'	35:BA:1544:A:N6	2.35	0.42
35:BA:1791:A:N6	35:BA:1828:G:O2'	2.53	0.42
35:BA:1827:C:H3'	38:BD:222:ARG:HH12	1.84	0.42
35:BA:1830:C:O2'	35:BA:1831:G:C5'	2.66	0.42
35:BA:2097:C:O2	35:BA:2193:G:C2	2.72	0.42
35:BA:2111:C:N4	35:BA:2145:C:C6	2.88	0.42
35:BA:2372:G:C2	35:BA:2373:G:C5	3.08	0.42
35:BA:2447:G:C6	35:BA:2501:C:O2	2.71	0.42
35:BA:2695:C:H2'	35:BA:2696:U:C5	2.54	0.42
35:BA:412:A:H2'	35:BA:412:A:N3	2.34	0.42
35:BA:498:G:C4	35:BA:499:U:C5	3.07	0.42
35:BA:629:G:C5'	35:BA:629:G:H8	2.25	0.42
35:BA:637:A:C2	35:BA:652:C:O4'	2.73	0.42
35:BA:648:G:C2	35:BA:649:G:N7	2.87	0.42
35:BA:772:C:O2'	35:BA:773:U:C5'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:792:G:C3'	35:BA:793:A:H5'	2.49	0.42
35:BA:814:C:HO2'	35:BA:815:C:H5'	1.80	0.42
35:BA:990:A:OP2	35:BA:991:C:OP2	2.37	0.42
36:BB:76:G:C4	36:BB:77:U:C6	3.07	0.42
37:BC:68:LEU:HD21	37:BC:174:PRO:HB2	2.00	0.42
37:BC:69:GLY:HA3	37:BC:180:PHE:CE1	2.54	0.42
37:BC:89:ALA:HB1	37:BC:150:GLY:O	2.18	0.42
38:BD:119:ALA:CB	38:BD:130:ALA:HB3	2.48	0.42
38:BD:11:PRO:C	38:BD:13:ARG:H	2.22	0.42
38:BD:18:VAL:HG23	38:BD:211:ARG:HH22	1.78	0.42
38:BD:82:ILE:HA	38:BD:93:ALA:CA	2.47	0.42
39:BE:184:VAL:C	39:BE:186:GLY:N	2.72	0.42
40:BF:125:LEU:HD12	40:BF:196:LEU:HD23	2.00	0.42
40:BF:122:LYS:CG	40:BF:191:ARG:HG3	2.49	0.42
40:BF:98:SER:OG	40:BF:99:TYR:N	2.52	0.42
41:BG:19:LEU:O	41:BG:20:ILE:C	2.57	0.42
42:BH:38:SER:HG	42:BH:64:LEU:HD21	1.85	0.42
42:BH:52:VAL:HG13	42:BH:53:GLU:N	2.34	0.42
45:BN:5:VAL:HG12	45:BN:7:LYS:CG	2.31	0.42
45:BN:97:ARG:N	45:BN:100:GLU:OE2	2.52	0.42
46:BO:77:ILE:HG23	46:BO:77:ILE:O	2.19	0.42
48:BQ:111:GLU:O	48:BQ:114:ALA:N	2.52	0.42
35:BA:2250:G:C5	48:BQ:83:MET:HB3	2.53	0.42
49:BR:18:LEU:HD13	49:BR:18:LEU:C	2.40	0.42
50:BS:46:VAL:CG1	50:BS:47:THR:H	2.09	0.42
50:BS:62:LYS:O	50:BS:65:VAL:HB	2.19	0.42
50:BS:30:ARG:HB3	50:BS:89:ARG:NH1	2.33	0.42
50:BS:93:LYS:HD2	50:BS:93:LYS:HA	1.90	0.42
51:BT:106:SER:C	51:BT:107:ASP:OD1	2.57	0.42
51:BT:50:ILE:CD1	51:BT:64:ARG:HB2	2.50	0.42
52:BU:20:LEU:O	52:BU:21:ALA:HB2	2.18	0.42
52:BU:36:ARG:HA	52:BU:39:LEU:HB2	2.01	0.42
52:BU:63:VAL:O	52:BU:64:ARG:C	2.57	0.42
57:BZ:177:PRO:C	57:BZ:178:GLU:HG2	2.40	0.42
57:BZ:63:ASP:C	57:BZ:65:GLN:N	2.70	0.42
36:BB:75:G:C2'	57:BZ:85:HIS:HE1	2.29	0.42
1:AA:1004:A:N6	1:AA:1035:A:N7	2.68	0.42
1:AA:1168:A:C6	1:AA:1169:A:C6	3.07	0.42
1:AA:1206:G:C6	1:AA:1207:G:C6	3.07	0.42
1:AA:1269:A:N1	1:AA:1312:G:N3	2.67	0.42
1:AA:1269:A:C2	1:AA:1325:C:O2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1441:G:OP1	1:AA:1442:G:H5'	2.19	0.42
1:AA:617:G:C2	1:AA:624:C:O2	2.72	0.42
1:AA:68:G:H2'	1:AA:69:G:O4'	2.20	0.42
1:AA:81:U:H6	1:AA:81:U:H3'	1.85	0.42
1:AA:896:C:O2'	1:AA:897:C:H5'	2.18	0.42
3:AC:153:VAL:HG12	3:AC:154:SER:H	1.83	0.42
3:AC:7:PRO:HG3	3:AC:184:TYR:CG	2.55	0.42
4:AD:124:GLY:O	4:AD:126:ILE:N	2.50	0.42
4:AD:79:PHE:HB2	4:AD:93:PHE:CZ	2.54	0.42
7:AG:137:LYS:HA	7:AG:140:ASP:HB3	2.02	0.42
7:AG:41:ARG:O	7:AG:45:ASP:CG	2.57	0.42
8:AH:112:LEU:O	8:AH:118:VAL:CG1	2.67	0.42
10:AJ:93:GLY:O	10:AJ:94:VAL:HG23	2.19	0.42
13:AM:86:CYS:O	13:AM:89:GLY:N	2.51	0.42
18:AR:43:PHE:CD2	18:AR:66:LEU:HD11	2.53	0.42
6:AF:60:PHE:CZ	18:AR:78:LEU:HD21	2.55	0.42
24:AY:122:ARG:HB3	24:AY:126:LEU:HD21	2.01	0.42
24:AY:20:SER:N	24:AY:126:LEU:HD13	2.34	0.42
24:AY:324:LYS:HG2	24:AY:325:TYR:H	1.83	0.42
24:AY:342:ILE:CG1	24:AY:345:ALA:HB2	2.49	0.42
24:AY:349:MET:SD	24:AY:356:VAL:HG22	2.59	0.42
24:AY:419:LEU:CD2	24:AY:424:ALA:CB	2.88	0.42
24:AY:443:VAL:O	24:AY:444:LEU:C	2.58	0.42
29:B4:5:ILE:CD1	29:B4:5:ILE:N	2.82	0.42
30:B5:30:LEU:HD22	54:BW:38:TYR:CD2	2.55	0.42
33:B8:10:ALA:HA	33:B8:13:ARG:CG	2.45	0.42
35:BA:1042:G:C5	35:BA:1114:G:N1	2.88	0.42
35:BA:1139:G:H8	35:BA:1139:G:H5''	1.84	0.42
35:BA:1168:G:C2	35:BA:1182:A:C2	3.07	0.42
35:BA:117:G:O4'	35:BA:126:A:H2	2.03	0.42
35:BA:1332:G:N2	35:BA:1610:A:N7	2.67	0.42
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.19	0.42
35:BA:1803:A:H61	35:BA:1822:G:HO2'	1.67	0.42
35:BA:1901:A:O2'	35:BA:1902:C:H5'	2.19	0.42
35:BA:2255:G:O5'	35:BA:2255:G:H8	2.02	0.42
25:B0:14:ARG:CD	35:BA:2279:G:O6	2.63	0.42
35:BA:2298:A:H2'	35:BA:2299:G:C1'	2.45	0.42
35:BA:2406:U:H5''	35:BA:2408:U:OP2	2.20	0.42
35:BA:2418:A:C5	35:BA:2419:U:C5	3.08	0.42
35:BA:2712:U:OP1	35:BA:2714:G:O2'	2.20	0.42
35:BA:2762:G:C5'	35:BA:2762:G:C8	3.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2785:C:O2'	35:BA:2786:U:H5'	2.20	0.42
35:BA:2838:G:C4'	49:BR:45:ARG:HH11	2.31	0.42
35:BA:30:G:C2'	35:BA:31:C:O4'	2.68	0.42
35:BA:781:A:H2	35:BA:1776:G:N3	2.17	0.42
35:BA:906:G:N1	35:BA:907:U:C4	2.88	0.42
35:BA:921:G:O2'	35:BA:922:U:H5'	2.19	0.42
35:BA:971:C:OP1	35:BA:974:G:C8	2.73	0.42
37:BC:59:ARG:CD	37:BC:164:ARG:NE	2.80	0.42
38:BD:144:ALA:O	38:BD:192:THR:CG2	2.67	0.42
38:BD:146:GLU:HB3	38:BD:152:GLY:O	2.20	0.42
38:BD:186:HIS:NE2	38:BD:188:GLU:CB	2.82	0.42
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.66	0.42
41:BG:96:ARG:N	41:BG:99:MET:HE2	2.34	0.42
42:BH:65:HIS:C	42:BH:67:LEU:N	2.67	0.42
42:BH:30:LYS:CB	42:BH:79:VAL:O	2.67	0.42
42:BH:83:TYR:HB3	42:BH:135:GLY:O	2.19	0.42
42:BH:94:TYR:HD1	42:BH:107:VAL:CA	2.32	0.42
45:BN:39:ARG:O	45:BN:42:TRP:HB3	2.19	0.42
35:BA:245:G:H4'	47:BP:71:VAL:HA	2.00	0.42
50:BS:85:VAL:H	50:BS:106:ARG:CB	2.32	0.42
51:BT:52:ILE:HG12	51:BT:61:PHE:HB2	2.00	0.42
51:BT:80:SER:OG	51:BT:81:PRO:N	2.49	0.42
52:BU:55:ARG:HG3	52:BU:55:ARG:NH1	2.34	0.42
52:BU:63:VAL:O	52:BU:66:ASN:N	2.52	0.42
53:BV:75:PHE:CE1	53:BV:77:ALA:N	2.88	0.42
56:BY:86:ARG:HH12	56:BY:95:LYS:HZ2	1.57	0.42
57:BZ:69:THR:O	57:BZ:70:LEU:HB3	2.19	0.42
48:BQ:141:GLN:CD	57:BZ:72:ARG:HA	2.38	0.42
1:AA:1050:G:N1	1:AA:1209:C:N3	2.68	0.42
1:AA:1118:C:H2'	1:AA:1119:C:O5'	2.19	0.42
1:AA:1133:G:C1'	1:AA:1142:G:H22	2.33	0.42
1:AA:1133:G:C4	1:AA:1142:G:N1	2.88	0.42
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.54	0.42
1:AA:1251:A:H2'	1:AA:1252:A:O4'	2.19	0.42
1:AA:130:A:O3'	1:AA:189(G):G:N2	2.52	0.42
1:AA:1326:C:O2'	1:AA:1327:C:C5'	2.67	0.42
1:AA:1349:A:C6	1:AA:1374:A:C8	3.07	0.42
1:AA:1481:U:C2	1:AA:1482:G:C8	3.07	0.42
1:AA:277:C:C5'	17:AQ:68:ARG:HH12	2.32	0.42
1:AA:498:U:O2'	1:AA:499:A:H8	2.02	0.42
1:AA:502:G:H4'	1:AA:550:G:O2'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:559:A:O4'	1:AA:561:U:H2'	2.19	0.42
1:AA:606:G:C2	1:AA:633:G:O6	2.72	0.42
1:AA:914:A:H2'	1:AA:915:A:C8	2.51	0.42
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.19	0.42
1:AA:986:A:C2'	1:AA:987:G:O4'	2.67	0.42
2:AB:106:LYS:C	2:AB:109:SER:HB2	2.40	0.42
2:AB:187:LEU:HA	2:AB:201:ILE:HB	2.02	0.42
2:AB:60:ASP:O	2:AB:64:ARG:HB3	2.20	0.42
3:AC:120:VAL:C	3:AC:122:GLU:N	2.73	0.42
4:AD:126:ILE:HG23	4:AD:127:THR:H	1.84	0.42
5:AE:131:ILE:O	5:AE:135:THR:CB	2.67	0.42
8:AH:27:PRO:HG3	8:AH:58:TYR:CZ	2.55	0.42
9:AI:70:LYS:HB2	9:AI:70:LYS:HE2	1.74	0.42
11:AK:58:PRO:O	11:AK:59:TYR:C	2.56	0.42
13:AM:102:ARG:HG3	13:AM:102:ARG:NH1	2.34	0.42
14:AN:14:PRO:O	14:AN:15:LYS:C	2.57	0.42
15:AO:18:PHE:O	15:AO:19:PRO:C	2.57	0.42
20:AT:10:LEU:C	20:AT:12:ALA:N	2.72	0.42
20:AT:40:ALA:HB2	20:AT:55:ILE:HG21	2.01	0.42
20:AT:88:VAL:HG12	20:AT:92:LEU:HD12	2.02	0.42
24:AY:154:LEU:O	24:AY:156:ASP:N	2.53	0.42
24:AY:246:PHE:HB2	24:AY:251:ILE:HD11	2.01	0.42
24:AY:30:THR:O	24:AY:34:LEU:HG	2.19	0.42
24:AY:453:LEU:O	24:AY:457:TYR:O	2.38	0.42
24:AY:509:VAL:HA	24:AY:512:ARG:HG3	2.01	0.42
24:AY:527:ARG:HD2	24:AY:528:GLU:O	2.19	0.42
28:B3:35:ARG:CB	28:B3:35:ARG:HH11	2.33	0.42
29:B4:9:LEU:CD1	29:B4:10:VAL:N	2.82	0.42
29:B4:40:HIS:CD2	29:B4:41:PRO:HA	2.54	0.42
30:B5:18:ALA:O	30:B5:21:SER:HB2	2.19	0.42
31:B6:15:GLU:HB2	31:B6:20:ASN:CB	2.49	0.42
31:B6:50:ARG:HB3	31:B6:51:GLU:H	1.75	0.42
32:B7:34:ARG:HA	32:B7:34:ARG:HD3	1.89	0.42
35:BA:1159:U:H6	35:BA:1159:U:H5''	1.84	0.42
35:BA:1188:U:H2'	35:BA:1189:A:O4'	2.19	0.42
35:BA:1202:C:C5	35:BA:1203:G:C5	3.08	0.42
35:BA:1244:G:C2'	35:BA:1245:G:H5'	2.50	0.42
35:BA:1432:C:H2'	35:BA:1433:U:O4'	2.20	0.42
35:BA:1446:C:C2	35:BA:1466:G:N2	2.87	0.42
35:BA:1451:C:C5'	35:BA:1452:A:H5'	2.49	0.42
35:BA:1569:A:C2	35:BA:1570:A:C8	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1326:U:H3	35:BA:1648:C:HO2'	1.61	0.42
35:BA:1677:A:H2'	35:BA:1678:G:H8	1.77	0.42
35:BA:1785:A:OP1	35:BA:1982:C:H5'	2.20	0.42
35:BA:1785:A:C5	35:BA:1787:A:C4	3.08	0.42
35:BA:1826:G:C6	35:BA:1827:C:C5	3.08	0.42
35:BA:1889:A:C6	35:BA:1890:A:C6	3.07	0.42
35:BA:1926:U:C3'	35:BA:1927:A:H5''	2.50	0.42
35:BA:2048:G:C2	35:BA:2621:A:C2	3.08	0.42
35:BA:2131:G:H5''	35:BA:2132:U:C5'	2.49	0.42
35:BA:2703:C:C2'	35:BA:2703:C:O2	2.66	0.42
35:BA:2744:G:H21	42:BH:143:GLN:CD	2.22	0.42
35:BA:2818:G:H4'	35:BA:2837:G:C4'	2.49	0.42
35:BA:2885:C:H2'	35:BA:2886:G:O4'	2.20	0.42
35:BA:341:G:C6	35:BA:342:G:C5	3.08	0.42
35:BA:426:C:O2'	35:BA:427:U:H5'	2.20	0.42
35:BA:614:U:H2'	35:BA:614(A):U:H5'	2.01	0.42
35:BA:659:C:C2	35:BA:660:G:C8	3.07	0.42
32:B7:11:LYS:HE2	35:BA:686:G:C5'	2.49	0.42
35:BA:810:U:OP1	35:BA:1253:A:N6	2.51	0.42
35:BA:915:C:C4	35:BA:916:G:C5	3.07	0.42
35:BA:933:A:H2'	35:BA:934:G:O4'	2.19	0.42
36:BB:67:G:O2'	36:BB:68:C:H6	2.02	0.42
37:BC:11:LEU:C	37:BC:13:LYS:N	2.72	0.42
37:BC:45:ALA:CA	37:BC:171:ILE:HG22	2.49	0.42
37:BC:43:VAL:O	37:BC:43:VAL:HG12	2.18	0.42
38:BD:121:PRO:C	38:BD:123:ALA:N	2.71	0.42
38:BD:145:VAL:N	38:BD:155:LEU:O	2.49	0.42
38:BD:165:ILE:HG13	38:BD:175:LEU:CD2	2.38	0.42
38:BD:203:ASN:O	38:BD:205:VAL:HG23	2.20	0.42
39:BE:101:ARG:O	39:BE:201:THR:HB	2.19	0.42
35:BA:2572:A:C5	39:BE:144:ARG:NH1	2.87	0.42
39:BE:4:ILE:CD1	39:BE:92:THR:O	2.67	0.42
39:BE:81:ILE:O	39:BE:81:ILE:CG2	2.66	0.42
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.72	0.42
41:BG:141:PHE:O	41:BG:143:GLU:N	2.50	0.42
41:BG:47:LYS:HG2	41:BG:81:LYS:CG	2.46	0.42
47:BP:86:LYS:HG2	47:BP:86:LYS:O	2.20	0.42
48:BQ:35:VAL:HG13	48:BQ:35:VAL:O	2.20	0.42
50:BS:85:VAL:H	50:BS:106:ARG:HB2	1.83	0.42
50:BS:26:LEU:CD2	50:BS:26:LEU:O	2.67	0.42
51:BT:129:ARG:O	51:BT:129:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:78:LEU:HD22	51:BT:79:HIS:CE1	2.54	0.42
51:BT:19:LEU:HD11	51:BT:78:LEU:O	2.19	0.42
56:BY:14:LEU:HD23	56:BY:73:ARG:HG3	2.02	0.42
57:BZ:168:GLU:CA	57:BZ:168:GLU:OE1	2.66	0.42
57:BZ:28:MET:HG3	57:BZ:37:VAL:CG1	2.47	0.42
57:BZ:60:GLU:CA	57:BZ:65:GLN:O	2.66	0.42
1:AA:1195:C:C4	1:AA:1197:G:C8	3.07	0.42
1:AA:1204:A:H2'	1:AA:1205:U:C1'	2.49	0.42
1:AA:16:A:C2'	1:AA:17:U:C5'	2.95	0.42
1:AA:187:C:H4'	20:AT:85:MET:HB2	2.02	0.42
1:AA:193:C:H2'	1:AA:194:C:C6	2.55	0.42
1:AA:328:C:H4'	1:AA:329:A:H5'	2.02	0.42
1:AA:42:G:H1	1:AA:400:C:H42	1.66	0.42
1:AA:597:G:H2'	1:AA:598:U:C5'	2.44	0.42
1:AA:712:A:H2'	1:AA:713:G:C8	2.55	0.42
1:AA:801:U:H2'	1:AA:802:A:H8	1.85	0.42
1:AA:878:G:C5	1:AA:879:C:C4	3.08	0.42
1:AA:910:C:C2'	1:AA:911:U:H5'	2.49	0.42
2:AB:114:ARG:HD2	2:AB:141:GLU:OE2	2.20	0.42
2:AB:211:ILE:O	2:AB:212:GLN:C	2.58	0.42
3:AC:122:GLU:O	3:AC:123:GLN:C	2.57	0.42
3:AC:92:ALA:O	3:AC:93:LYS:C	2.58	0.42
4:AD:143:GLY:O	4:AD:144:ASP:O	2.37	0.42
5:AE:13:ILE:HG22	5:AE:14:ARG:N	2.35	0.42
6:AF:79:LEU:O	6:AF:85:VAL:HG21	2.19	0.42
1:AA:1342:C:O3'	9:AI:125:TYR:HB2	2.20	0.42
10:AJ:62:HIS:HB2	14:AN:59:ALA:CB	2.49	0.42
11:AK:114:VAL:CG2	11:AK:115:PRO:HD2	2.49	0.42
11:AK:120:ARG:CZ	11:AK:126:ARG:HD2	2.50	0.42
12:AL:32:PHE:HD1	12:AL:85:ILE:O	2.01	0.42
16:AP:5:ARG:NH2	16:AP:23:ASP:O	2.52	0.42
17:AQ:31:LEU:HA	17:AQ:31:LEU:HD12	1.69	0.42
18:AR:40:LEU:HD23	18:AR:40:LEU:HA	1.60	0.42
19:AS:13:ASP:C	19:AS:15:LEU:H	2.22	0.42
24:AY:12:LYS:O	24:AY:82:CYS:HB2	2.18	0.42
24:AY:68:ILE:HB	58:AY:1000:GCP:O3G	2.20	0.42
25:B0:20:ARG:NH1	35:BA:2357:U:OP1	2.53	0.42
25:B0:43:THR:HG21	35:BA:2336:A:H61	1.84	0.42
26:B1:76:ARG:HH21	26:B1:95:LEU:HD13	1.81	0.42
32:B7:29:LYS:HE3	32:B7:29:LYS:HB3	1.75	0.42
32:B7:40:TRP:CD2	35:BA:459:U:C5'	3.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1306:C:C2	35:BA:1307:A:C8	3.07	0.42
35:BA:1389:G:C2	35:BA:1390:U:C2	3.08	0.42
35:BA:1551:C:C5	35:BA:1552:G:N7	2.88	0.42
35:BA:1272:A:N7	35:BA:1618:A:H1'	2.35	0.42
35:BA:1307:A:H1'	35:BA:1622:G:N2	2.35	0.42
35:BA:1754:C:C4	35:BA:1755:A:C5	3.08	0.42
35:BA:1770:G:H2'	35:BA:1771:C:H6	1.84	0.42
30:B5:19:ARG:HD3	35:BA:2047:U:OP1	2.20	0.42
35:BA:2173:A:C4	35:BA:2173:A:OP2	2.72	0.42
35:BA:2234:G:C4	35:BA:2235:G:C8	3.07	0.42
35:BA:2309:A:O2'	35:BA:2310:A:H5''	2.20	0.42
35:BA:2369:A:O2'	35:BA:2370:G:H5'	2.19	0.42
35:BA:2345:G:N2	35:BA:2382:G:C8	2.88	0.42
35:BA:2443:C:C2'	35:BA:2444:G:C5'	2.94	0.42
35:BA:2532:G:O2'	35:BA:2657:A:N6	2.53	0.42
35:BA:2715:C:C2	35:BA:2716:U:C5	3.07	0.42
35:BA:2745:C:O2'	35:BA:2746:U:H5'	2.20	0.42
35:BA:2801(A):A:H5'	35:BA:2802:G:C8	2.38	0.42
35:BA:2856:C:O2	35:BA:2862:G:N2	2.52	0.42
35:BA:324:A:C2'	35:BA:325:G:H5'	2.49	0.42
35:BA:327:G:N2	35:BA:336:C:C2	2.87	0.42
35:BA:482:A:H5'	56:BY:47:LYS:HD3	2.02	0.42
35:BA:638:G:C2	35:BA:639:U:C2	3.08	0.42
35:BA:877:U:N3	35:BA:899:A:N6	2.65	0.42
36:BB:26:A:H5'	36:BB:27:C:P	2.59	0.42
37:BC:22:ILE:CD1	37:BC:189:ILE:HG22	2.50	0.42
38:BD:148:GLU:H	38:BD:154:LYS:HZ2	1.67	0.42
38:BD:18:VAL:CG2	38:BD:211:ARG:NH2	2.70	0.42
38:BD:211:ARG:O	38:BD:212:SER:C	2.58	0.42
39:BE:117:MET:HG3	39:BE:122:PHE:O	2.20	0.42
39:BE:117:MET:O	39:BE:121:ASN:CA	2.66	0.42
39:BE:177:PRO:O	39:BE:178:GLU:O	2.38	0.42
40:BF:104:LYS:O	40:BF:108:LYS:HG3	2.19	0.42
40:BF:59:TYR:N	40:BF:59:TYR:CD1	2.88	0.42
42:BH:148:ILE:O	42:BH:151:ILE:HD13	2.20	0.42
42:BH:94:TYR:CD1	42:BH:107:VAL:C	2.90	0.42
45:BN:107:LEU:HD11	45:BN:117:PHE:HD1	1.85	0.42
45:BN:75:TYR:HB2	45:BN:82:LEU:CD1	2.43	0.42
47:BP:85:LEU:C	47:BP:88:LEU:H	2.23	0.42
48:BQ:38:GLU:OE1	48:BQ:127:ILE:HB	2.20	0.42
49:BR:67:LEU:O	49:BR:70:LEU:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BR:97:VAL:C	49:BR:98:LEU:HG	2.40	0.42
52:BU:6:THR:CG2	52:BU:10:ARG:NH2	2.82	0.42
52:BU:83:LEU:HA	52:BU:88:ILE:HG12	2.01	0.42
53:BV:23:GLU:O	53:BV:24:LYS:C	2.57	0.42
53:BV:95:LEU:CD2	53:BV:95:LEU:C	2.88	0.42
54:BW:12:ILE:O	54:BW:12:ILE:HG23	2.18	0.42
57:BZ:60:GLU:C	57:BZ:61:LEU:HG	2.39	0.42
1:AA:1015:A:C5	1:AA:1016:A:N7	2.88	0.42
1:AA:1053:G:O2'	1:AA:1054:C:P	2.78	0.42
1:AA:1117:G:O2'	9:AI:104:ARG:CD	2.67	0.42
1:AA:1120:G:C6	1:AA:1154:G:C2	3.08	0.42
1:AA:1151:A:C2	10:AJ:39:PRO:HG3	2.53	0.42
1:AA:1263:C:C2	1:AA:1273:G:N2	2.88	0.42
1:AA:135:C:H2'	1:AA:136:C:H5'	2.01	0.42
1:AA:412:A:H4'	1:AA:413:G:H8	1.84	0.42
1:AA:43:C:C2	1:AA:44:G:C8	3.08	0.42
1:AA:720:C:C1'	18:AR:50:ILE:CG2	2.93	0.42
1:AA:753:A:H4'	1:AA:754:C:C2	2.55	0.42
1:AA:818:G:HO2'	1:AA:820:U:H6	1.64	0.42
1:AA:961:U:O2'	1:AA:962:C:P	2.77	0.42
2:AB:181:PHE:CD1	8:AH:70:GLN:HB3	2.55	0.42
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.49	0.42
4:AD:9:CYS:CA	4:AD:12:CYS:HB2	2.49	0.42
4:AD:58:LEU:HD11	4:AD:62:GLN:HG3	2.01	0.42
4:AD:11:LEU:HD13	4:AD:66:ARG:NE	2.34	0.42
6:AF:80:ARG:HA	6:AF:85:VAL:CG1	2.47	0.42
7:AG:107:ALA:HB2	7:AG:134:ALA:HB2	2.01	0.42
12:AL:32:PHE:HB3	12:AL:84:LEU:HD22	2.02	0.42
12:AL:53:ARG:NH1	12:AL:93:LEU:HD21	2.34	0.42
12:AL:7:ILE:O	12:AL:10:LEU:N	2.52	0.42
1:AA:982:U:H5''	14:AN:6:LEU:HD11	2.00	0.42
15:AO:53:HIS:HE1	15:AO:57:LEU:HD21	1.85	0.42
17:AQ:11:VAL:HG23	17:AQ:20:THR:HB	2.02	0.42
17:AQ:58:GLU:C	17:AQ:59:ILE:HG12	2.39	0.42
17:AQ:4:LYS:O	17:AQ:60:ILE:HA	2.20	0.42
17:AQ:83:ASP:CG	17:AQ:84:LEU:H	2.20	0.42
1:AA:958:A:C2	19:AS:54:GLY:O	2.67	0.42
20:AT:100:ILE:CD1	20:AT:100:ILE:N	2.83	0.42
24:AY:135:THR:O	24:AY:136:PRO:C	2.58	0.42
24:AY:114:ASP:OD1	24:AY:143:LYS:HD2	2.20	0.42
24:AY:231:LEU:O	24:AY:234:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:442:GLY:O	24:AY:443:VAL:CG2	2.62	0.42
24:AY:445:GLN:HA	24:AY:448:VAL:CB	2.50	0.42
26:B1:50:ARG:HA	26:B1:59:THR:HA	2.01	0.42
30:B5:39:MET:HG2	54:BW:34:ASN:OD1	2.18	0.42
30:B5:44:THR:HG21	49:BR:101:ALA:HB2	2.02	0.42
35:BA:1086:A:N3	35:BA:1086:A:H5''	2.34	0.42
35:BA:108:U:O5'	35:BA:108:U:H6	2.03	0.42
27:B2:65:ASN:ND2	35:BA:112:U:H5'	2.35	0.42
35:BA:116:C:H2'	35:BA:117:G:C5'	2.49	0.42
35:BA:129:C:H2'	35:BA:130:C:H6	1.85	0.42
35:BA:1368:G:C2	35:BA:1369:G:C5	3.07	0.42
35:BA:142:A:H1'	35:BA:1408:C:H1'	2.02	0.42
35:BA:1439:A:H3'	35:BA:1440:G:C8	2.52	0.42
35:BA:1650:G:C6	35:BA:1651:G:N7	2.87	0.42
35:BA:1746:G:N3	35:BA:1746:G:H2'	2.35	0.42
35:BA:1812:A:H2'	35:BA:1813:G:O4'	2.19	0.42
35:BA:1834:U:O3'	35:BA:1835:G:H8	2.03	0.42
35:BA:1861:G:O2'	35:BA:1862:G:H5'	2.19	0.42
35:BA:2039:C:O2'	35:BA:2040:C:H5'	2.20	0.42
35:BA:2077:A:N3	35:BA:2078:C:C6	2.88	0.42
35:BA:2279:G:C6	35:BA:2280:G:N7	2.87	0.42
35:BA:2306:C:H5''	35:BA:2307:G:O4'	2.20	0.42
35:BA:233:A:O2'	35:BA:234:C:H5'	2.20	0.42
35:BA:644:A:C2	35:BA:2369:A:H1'	2.55	0.42
35:BA:2521:C:N3	35:BA:2545:G:C2	2.88	0.42
35:BA:2569:G:C2	35:BA:2570:G:N7	2.87	0.42
35:BA:2594:C:C2	35:BA:2595:G:N7	2.88	0.42
35:BA:24:G:H2'	35:BA:25:U:C6	2.54	0.42
35:BA:2044:C:C2	35:BA:2625:G:N2	2.88	0.42
35:BA:2649:U:H2'	35:BA:2650:U:C6	2.55	0.42
35:BA:2742:C:C4	35:BA:2763:G:N2	2.88	0.42
35:BA:481:G:C4	35:BA:507:A:C2	3.07	0.42
35:BA:479:A:C4	35:BA:481:G:O4'	2.72	0.42
35:BA:612:C:O2'	35:BA:613:G:H5''	2.19	0.42
35:BA:920:G:O2'	35:BA:921:G:H5'	2.19	0.42
37:BC:14:VAL:CG2	37:BC:32:LEU:HD11	2.50	0.42
38:BD:126:GLN:O	38:BD:193:VAL:CG2	2.68	0.42
38:BD:173:VAL:HG23	38:BD:174:ILE:N	2.34	0.42
39:BE:44:TYR:CD2	39:BE:45:THR:O	2.70	0.42
41:BG:41:GLN:CG	41:BG:155:MET:HE2	2.49	0.42
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:39:ILE:HG21	41:BG:94:LEU:HD11	2.01	0.42
42:BH:150:ALA:O	42:BH:151:ILE:C	2.57	0.42
42:BH:38:SER:OG	42:BH:64:LEU:HD11	2.18	0.42
43:BJ:121:UNK:O	43:BJ:122:UNK:C	2.68	0.42
46:BO:85:VAL:HB	46:BO:87:ILE:HD11	2.02	0.42
33:B8:12:LYS:HB3	47:BP:68:GLN:NE2	2.35	0.42
51:BT:29:ARG:HA	51:BT:29:ARG:HD3	1.35	0.42
51:BT:62:THR:HA	51:BT:74:ARG:O	2.20	0.42
51:BT:32:TYR:CD1	51:BT:81:PRO:HB2	2.54	0.42
51:BT:5:ALA:HA	51:BT:8:LYS:HE2	2.01	0.42
52:BU:12:ARG:O	52:BU:16:LYS:HG3	2.19	0.42
52:BU:36:ARG:O	52:BU:39:LEU:HB2	2.19	0.42
52:BU:53:ARG:HA	52:BU:56:ASP:OD1	2.18	0.42
52:BU:92:ARG:C	52:BU:94:ASN:H	2.22	0.42
53:BV:47:VAL:HB	53:BV:51:VAL:O	2.19	0.42
55:BX:81:VAL:O	55:BX:81:VAL:HG23	2.19	0.42
56:BY:88:LYS:C	56:BY:90:LEU:H	2.23	0.42
57:BZ:41:LEU:HD11	57:BZ:82:ARG:HH21	1.85	0.42
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.20	0.42
1:AA:1180:A:OP1	9:AI:103:THR:CG2	2.67	0.42
1:AA:645:C:O2'	1:AA:646:U:H5'	2.20	0.42
1:AA:787:A:C4	1:AA:788:U:C6	3.08	0.42
1:AA:797:C:O2	1:AA:797:C:C2'	2.68	0.42
1:AA:906:G:C8	1:AA:906:G:C3'	3.03	0.42
1:AA:973:G:C2'	1:AA:974:A:OP1	2.67	0.42
2:AB:10:LEU:C	2:AB:10:LEU:CD1	2.88	0.42
2:AB:153:ARG:HG3	2:AB:154:LEU:HD23	2.02	0.42
3:AC:113:ALA:O	3:AC:117:ALA:HB2	2.19	0.42
3:AC:187:ALA:N	3:AC:198:VAL:O	2.46	0.42
3:AC:60:ALA:HB3	3:AC:63:ASN:OD1	2.19	0.42
4:AD:173:TRP:CD2	4:AD:189:PRO:HB3	2.55	0.42
6:AF:12:PRO:HG3	6:AF:55:ASP:OD1	2.20	0.42
8:AH:14:ARG:NH1	8:AH:14:ARG:HB2	2.35	0.42
9:AI:90:PRO:C	9:AI:92:TYR:H	2.22	0.42
11:AK:62:GLN:O	11:AK:65:ALA:HB3	2.20	0.42
13:AM:91:ARG:HD3	13:AM:96:LEU:HB2	2.00	0.42
14:AN:4:LYS:HB2	14:AN:4:LYS:HZ2	1.84	0.42
15:AO:43:LEU:HA	15:AO:43:LEU:HD22	1.70	0.42
20:AT:50:GLU:C	20:AT:52:ALA:N	2.72	0.42
20:AT:89:ARG:C	20:AT:91:LEU:H	2.23	0.42
24:AY:28:THR:HB	58:AY:1000:GCP:H8	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:131:ARG:CG	24:AY:131:ARG:HH11	2.33	0.42
24:AY:131:ARG:HH12	24:AY:162:LEU:CD1	2.33	0.42
24:AY:17:ALA:HB3	24:AY:103:LEU:HG	2.01	0.42
24:AY:527:ARG:HD2	24:AY:528:GLU:C	2.40	0.42
24:AY:72:THR:HG22	24:AY:89:THR:HA	2.00	0.42
25:B0:48:GLY:HA3	25:B0:80:HIS:CA	2.48	0.42
28:B3:8:LEU:HD11	28:B3:29:ARG:O	2.19	0.42
30:B5:40:LYS:CD	30:B5:44:THR:O	2.68	0.42
30:B5:46:CYS:HB2	30:B5:47:PRO:HD2	2.01	0.42
33:B8:52:LYS:C	33:B8:56:GLU:OE1	2.58	0.42
35:BA:1051:G:OP1	35:BA:2752:C:H1'	2.19	0.42
35:BA:1069:A:N6	35:BA:1073:A:C6	2.88	0.42
35:BA:1130:U:N3	35:BA:2025:C:H5''	2.35	0.42
35:BA:115:C:O2'	35:BA:116:C:H5'	2.20	0.42
35:BA:1306:C:N4	35:BA:1606:G:H2'	2.35	0.42
35:BA:142:A:H1'	35:BA:1408:C:O4'	2.20	0.42
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.19	0.42
35:BA:1480:G:C6	35:BA:1481:U:C4	3.08	0.42
35:BA:1693:U:O4	35:BA:1977:A:C5	2.73	0.42
35:BA:1805:U:N3	35:BA:1806:C:C5	2.87	0.42
35:BA:180:G:O2'	35:BA:181:A:N7	2.53	0.42
35:BA:1843:C:H2'	35:BA:1844:C:C5	2.53	0.42
35:BA:1893:C:H2'	35:BA:1894:C:O4'	2.19	0.42
35:BA:1910:G:C2	35:BA:1911:U:C2	3.08	0.42
26:B1:35:THR:OG1	35:BA:2079:U:O3'	2.33	0.42
35:BA:2375:G:N3	35:BA:2379:G:N1	2.68	0.42
35:BA:247:G:OP2	35:BA:249:C:C5	2.72	0.42
35:BA:2637:U:O2'	35:BA:2638:G:H5'	2.20	0.42
35:BA:2703:C:C2'	35:BA:2704:C:H5'	2.48	0.42
35:BA:2740:A:C6	35:BA:2764:A:C8	3.07	0.42
35:BA:282:A:O2'	35:BA:283:A:H8	2.00	0.42
35:BA:327:G:C2	35:BA:336:C:C2	3.07	0.42
35:BA:407:G:H8	35:BA:407:G:O5'	2.03	0.42
35:BA:472:A:C2'	35:BA:473:G:H5'	2.46	0.42
35:BA:483:A:H1'	56:BY:60:PHE:HE1	1.84	0.42
35:BA:491:G:O2'	35:BA:492:A:H5'	2.19	0.42
35:BA:528:A:C8	35:BA:528:A:C3'	3.03	0.42
35:BA:588:U:C2	35:BA:589:C:C5	3.08	0.42
35:BA:646:A:O4'	35:BA:646:A:N3	2.53	0.42
35:BA:671:C:C2	35:BA:672:C:C5	3.08	0.42
35:BA:9:U:O2	35:BA:10:G:C1'	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:77:U:H2'	36:BB:77:U:O2	2.20	0.42
36:BB:7:G:H3'	36:BB:8:U:C5'	2.46	0.42
38:BD:53:PHE:HB3	38:BD:218:ARG:HB2	2.02	0.42
35:BA:2820:A:C8	39:BE:109:LYS:HE2	2.55	0.42
39:BE:134:ILE:HG13	39:BE:134:ILE:O	2.19	0.42
39:BE:26:ILE:O	39:BE:182:LEU:N	2.51	0.42
39:BE:11:MET:HB3	39:BE:24:THR:HA	2.02	0.42
35:BA:2631:G:N2	39:BE:61:ARG:NH2	2.67	0.42
35:BA:2312:U:H5'	41:BG:73:ALA:HB2	2.01	0.42
41:BG:85:GLY:O	41:BG:86:MET:CB	2.65	0.42
42:BH:94:TYR:CB	42:BH:107:VAL:HB	2.45	0.42
42:BH:94:TYR:CE1	42:BH:108:GLY:HA3	2.52	0.42
42:BH:125:VAL:HG13	42:BH:131:VAL:HG11	2.02	0.42
40:BF:34:TRP:CG	47:BP:11:GLY:O	2.73	0.42
47:BP:55:ARG:HG2	47:BP:57:THR:N	2.32	0.42
49:BR:79:LEU:C	49:BR:79:LEU:HD13	2.39	0.42
52:BU:76:TYR:C	52:BU:76:TYR:CD1	2.93	0.42
52:BU:98:LEU:O	52:BU:99:ALA:C	2.57	0.42
53:BV:73:SER:HA	53:BV:83:ARG:O	2.20	0.42
55:BX:47:PHE:O	55:BX:49:VAL:N	2.47	0.42
1:AA:1018:C:H2'	1:AA:1019:C:H6	1.85	0.42
1:AA:1119:C:H2'	1:AA:1120:G:C8	2.54	0.42
1:AA:1126:U:OP1	1:AA:1281:U:O2	2.38	0.42
1:AA:335:C:HO2'	1:AA:1433:A:HO2'	1.66	0.42
1:AA:235:C:C5'	17:AQ:70:ARG:HG2	2.49	0.42
1:AA:360:A:P	24:AY:411:GLN:NE2	2.92	0.42
1:AA:458:C:H2'	1:AA:460:G:H5'	2.00	0.42
1:AA:629:G:H2'	1:AA:630:G:C8	2.55	0.42
1:AA:735:C:OP1	18:AR:71:LYS:NZ	2.50	0.42
1:AA:817:C:C5	1:AA:819:A:C1'	3.01	0.42
1:AA:826:C:O5'	1:AA:826:C:H6	2.02	0.42
1:AA:939:G:C2	1:AA:940:C:C2	3.07	0.42
2:AB:137:ARG:O	2:AB:140:HIS:CB	2.68	0.42
2:AB:185:ILE:H	2:AB:185:ILE:HD12	1.78	0.42
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	2.01	0.42
3:AC:9:GLY:C	3:AC:12:LEU:HG	2.40	0.42
3:AC:67:THR:HG23	3:AC:102:ASN:CB	2.37	0.42
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.37	0.42
4:AD:124:GLY:C	4:AD:126:ILE:H	2.23	0.42
4:AD:170:VAL:HB	4:AD:174:LEU:O	2.20	0.42
4:AD:188:LEU:HD23	4:AD:189:PRO:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:33:VAL:HG22	5:AE:43:LEU:CD1	2.31	0.42
6:AF:9:VAL:HG12	6:AF:10:LEU:N	2.34	0.42
6:AF:10:LEU:N	6:AF:59:TYR:O	2.53	0.42
8:AH:31:PHE:HE1	8:AH:118:VAL:HG21	1.85	0.42
8:AH:50:ARG:O	8:AH:51:VAL:CG1	2.68	0.42
13:AM:3:ARG:HA	13:AM:8:GLU:O	2.20	0.42
14:AN:45:ARG:O	14:AN:49:HIS:HD2	2.02	0.42
15:AO:67:LEU:HA	15:AO:67:LEU:HD23	1.67	0.42
16:AP:20:VAL:CG2	16:AP:21:VAL:N	2.83	0.42
1:AA:277:C:P	17:AQ:68:ARG:HH12	2.42	0.42
6:AF:98:LEU:HA	18:AR:29:PHE:O	2.20	0.42
6:AF:97:PHE:O	18:AR:30:ASP:OD1	2.37	0.42
19:AS:36:ARG:O	19:AS:38:SER:N	2.52	0.42
20:AT:13:LEU:H	20:AT:13:LEU:CD2	2.29	0.42
22:AV:29:G:C2	22:AV:42:G:C2	3.07	0.42
22:AV:52:G:C2'	22:AV:53:G:C8	2.94	0.42
24:AY:169:ILE:O	24:AY:170:THR:HG22	2.19	0.42
24:AY:173:ILE:CG2	24:AY:180:LYS:HB2	2.46	0.42
24:AY:284:THR:O	24:AY:285:ASP:C	2.57	0.42
24:AY:323:GLY:O	24:AY:324:LYS:O	2.37	0.42
24:AY:347:THR:OG1	24:AY:348:PHE:N	2.53	0.42
24:AY:405:ASP:HA	24:AY:406:PRO:HD3	1.73	0.42
24:AY:445:GLN:HA	24:AY:448:VAL:HG21	1.98	0.42
24:AY:527:ARG:O	24:AY:528:GLU:HG2	2.20	0.42
24:AY:89:THR:CB	24:AY:90:PRO:CD	2.94	0.42
27:B2:51:ARG:O	27:B2:52:ASP:C	2.57	0.42
32:B7:10:ARG:HD3	35:BA:770:G:OP1	2.19	0.42
35:BA:1105:U:C6	35:BA:1105:U:O5'	2.72	0.42
35:BA:1133:U:H5	35:BA:2026:C:O2'	2.02	0.42
35:BA:1428:C:C2'	35:BA:1569:A:OP1	2.67	0.42
35:BA:1462:C:C4	35:BA:1463:C:C4	3.08	0.42
35:BA:1651:G:C2	35:BA:1652:A:C4	3.08	0.42
35:BA:1661:G:C4	35:BA:1662:C:C5	3.08	0.42
35:BA:16:G:H2'	35:BA:17:G:C8	2.55	0.42
35:BA:752:A:N7	35:BA:1781:C:C2	2.88	0.42
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.59	0.42
35:BA:2034:U:H2'	35:BA:2035:G:O4'	2.20	0.42
35:BA:2056:G:N2	35:BA:2057:A:C4	2.87	0.42
35:BA:2126:A:H4'	35:BA:2127:G:O5'	2.20	0.42
35:BA:2312:U:O2'	41:BG:40:ASN:ND2	2.53	0.42
35:BA:2358:G:C4	35:BA:2359:C:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2409:G:C6	35:BA:2410:G:C5	3.08	0.42
35:BA:2460:U:O2	35:BA:2493:U:O2	2.38	0.42
35:BA:2563:U:C2	35:BA:2566:A:N7	2.88	0.42
35:BA:2575:C:C5'	35:BA:2576:G:OP2	2.61	0.42
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.54	0.42
35:BA:2654:A:N1	35:BA:2665:A:H5''	2.35	0.42
35:BA:2749:A:C5	35:BA:2750:A:N7	2.87	0.42
35:BA:2808:U:H2'	35:BA:2809:A:H5'	2.02	0.42
35:BA:326:G:C4	35:BA:327:G:C8	3.08	0.42
35:BA:526:A:C2	35:BA:2625:G:N3	2.88	0.42
35:BA:586:A:C2	35:BA:1254:A:C2	3.07	0.42
35:BA:57:C:HO2'	35:BA:58:G:H5'	1.82	0.42
35:BA:952:G:O2'	35:BA:2267:A:H1'	2.19	0.42
36:BB:107:G:C6	36:BB:108:U:C5	3.07	0.42
36:BB:63:G:C6	36:BB:64:C:N4	2.87	0.42
36:BB:87:G:N1	36:BB:91:C:N4	2.68	0.42
37:BC:50:ASP:OD1	37:BC:51:PRO:HD2	2.19	0.42
38:BD:121:PRO:O	38:BD:131:LEU:HD21	2.20	0.42
38:BD:169:GLU:CD	38:BD:184:LYS:HZ2	2.21	0.42
38:BD:242:ARG:CG	38:BD:242:ARG:NH1	2.79	0.42
38:BD:263:ARG:NH1	38:BD:263:ARG:CB	2.83	0.42
39:BE:102:VAL:HG23	39:BE:104:VAL:CG2	2.49	0.42
39:BE:48:GLN:NE2	39:BE:64:LYS:HZ1	2.13	0.42
39:BE:86:PRO:HB2	39:BE:87:GLU:H	1.63	0.42
35:BA:673:C:P	40:BF:54:ARG:HH11	2.42	0.42
41:BG:129:GLY:C	41:BG:130:ASN:CG	2.76	0.42
41:BG:80:PHE:CD1	41:BG:81:LYS:HG2	2.54	0.42
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.34	0.42
45:BN:99:LEU:O	45:BN:100:GLU:C	2.57	0.42
45:BN:12:ARG:HG2	45:BN:50:ASP:OD2	2.20	0.42
45:BN:96:GLU:HG2	45:BN:100:GLU:OE2	2.20	0.42
50:BS:63:THR:C	50:BS:65:VAL:N	2.74	0.42
52:BU:87:GLY:O	53:BV:49:THR:HA	2.20	0.42
53:BV:75:PHE:C	53:BV:75:PHE:CD1	2.93	0.42
35:BA:571:A:C2'	53:BV:78:LYS:HZ3	2.32	0.42
57:BZ:5:LEU:HB3	57:BZ:59:LEU:CD2	2.49	0.42
1:AA:60:A:H2	1:AA:107:G:N3	2.18	0.42
1:AA:1100:C:C2	1:AA:1102:A:C5'	3.02	0.42
1:AA:1108:G:OP2	3:AC:174:PRO:HA	2.20	0.42
1:AA:1050:G:C2	1:AA:1209:C:C2	3.08	0.42
1:AA:1219:U:H6	1:AA:1219:U:O5'	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:944:G:N1	1:AA:1340:A:N6	2.68	0.42
1:AA:1413:A:C2	1:AA:1414:U:C6	3.08	0.42
1:AA:173:U:H4'	1:AA:174:C:OP2	2.20	0.42
1:AA:142:G:H1	1:AA:221:C:H42	1.67	0.42
1:AA:260:G:H8	1:AA:260:G:O5'	2.03	0.42
1:AA:293:G:C6	1:AA:305:G:C2	3.08	0.42
1:AA:321:A:C2	1:AA:322:C:C4	3.07	0.42
1:AA:346:G:O2'	1:AA:347:G:P	2.77	0.42
1:AA:46:G:N1	1:AA:366:C:O2	2.53	0.42
1:AA:552:U:H2'	1:AA:553:A:C8	2.55	0.42
1:AA:586:C:P	17:AQ:34:LYS:NZ	2.93	0.42
1:AA:762:C:C2	1:AA:763:G:C8	3.08	0.42
1:AA:928:G:C6	1:AA:929:G:O6	2.72	0.42
2:AB:129:GLU:O	2:AB:130:ARG:HB2	2.20	0.42
2:AB:155:LEU:HD21	2:AB:159:PRO:CG	2.31	0.42
3:AC:90:GLU:HA	3:AC:93:LYS:CB	2.50	0.42
4:AD:108:LEU:HD12	4:AD:108:LEU:HA	1.76	0.42
1:AA:620:C:C2	4:AD:135:LEU:HG	2.54	0.42
6:AF:18:GLN:O	6:AF:21:LEU:N	2.53	0.42
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.19	0.42
7:AG:145:ALA:C	7:AG:147:ALA:N	2.73	0.42
11:AK:63:LEU:CA	11:AK:66:LEU:HG	2.50	0.42
12:AL:33:ARG:HD2	12:AL:34:ARG:H	1.85	0.42
17:AQ:34:LYS:HG2	17:AQ:35:VAL:N	2.33	0.42
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.19	0.42
20:AT:71:THR:CG2	20:AT:72:LEU:N	2.83	0.42
20:AT:97:ALA:HA	20:AT:98:PRO:HD2	1.80	0.42
22:AV:23:C:C4	22:AV:24:U:C5	3.08	0.42
24:AY:109:CYS:O	24:AY:137:ILE:CG2	2.68	0.42
24:AY:173:ILE:CD1	24:AY:190:THR:CG2	2.98	0.42
24:AY:295:LYS:HD3	24:AY:381:GLN:HB2	2.01	0.42
24:AY:418:GLN:O	24:AY:421:GLU:HB3	2.20	0.42
24:AY:68:ILE:HB	24:AY:92:HIS:HE1	1.85	0.42
26:B1:50:ARG:HG3	35:BA:2200:C:OP1	2.20	0.42
34:B9:19:ARG:HB2	35:BA:2756:U:H3'	2.00	0.42
35:BA:1044:G:N2	35:BA:1111:A:C2	2.88	0.42
35:BA:130:C:H4'	35:BA:1349:A:C1'	2.50	0.42
35:BA:1360:A:N7	35:BA:1372:U:C4	2.88	0.42
35:BA:1463:C:O2'	35:BA:1464:C:H5'	2.20	0.42
35:BA:150:C:H2'	35:BA:151:C:H6	1.84	0.42
35:BA:1557:C:C5	35:BA:1558:A:C5	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:143:G:H5'	35:BA:1598:C:H1'	2.02	0.42
35:BA:1667:G:C5'	46:BO:5:GLN:O	2.66	0.42
35:BA:1888:G:N3	35:BA:1888:G:H5'	2.35	0.42
35:BA:1266:G:H22	35:BA:2012:G:H2'	1.83	0.42
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.54	0.42
35:BA:2153:G:C2	35:BA:2154:G:C1'	3.03	0.42
35:BA:2189:U:C6	35:BA:2189:U:C3'	3.03	0.42
31:B6:5:VAL:HG11	35:BA:2283:C:H5'	2.01	0.42
35:BA:231:C:O2'	35:BA:232:G:H5'	2.18	0.42
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.35	0.42
35:BA:2324:C:O2	35:BA:2385:C:C5	2.63	0.42
35:BA:240:G:C6	35:BA:241:A:C6	3.07	0.42
35:BA:2429:G:N7	47:BP:56:SER:HB2	2.35	0.42
35:BA:2563:U:C1'	35:BA:2566:A:N6	2.83	0.42
35:BA:342:G:H2'	35:BA:343:C:C6	2.55	0.42
26:B1:65:SER:O	35:BA:372:G:C8	2.73	0.42
35:BA:44:G:N2	35:BA:435:C:H41	2.18	0.42
35:BA:496:G:C1'	54:BW:61:ASN:HD21	2.33	0.42
35:BA:685:A:N1	35:BA:787:U:H1'	2.34	0.42
35:BA:695:G:N1	35:BA:696:G:C5	2.87	0.42
35:BA:833:U:O2	47:BP:55:ARG:NH2	2.50	0.42
35:BA:848:G:O6	35:BA:928:G:H2'	2.19	0.42
35:BA:908:C:H2'	35:BA:909:A:C8	2.55	0.42
35:BA:910:A:C6	48:BQ:13:GLN:HG3	2.55	0.42
36:BB:85:G:N1	36:BB:93:G:C6	2.88	0.42
37:BC:148:ASN:O	37:BC:150:GLY:N	2.53	0.42
38:BD:218:ARG:O	38:BD:219:PRO:O	2.38	0.42
38:BD:250:TRP:HB2	38:BD:252:TRP:HE1	1.84	0.42
39:BE:60:ASN:OD1	39:BE:61:ARG:HB3	2.20	0.42
39:BE:48:GLN:HG3	39:BE:78:LEU:HD13	2.02	0.42
41:BG:178:PHE:CB	41:BG:180:PHE:HE1	2.33	0.42
45:BN:100:GLU:O	45:BN:117:PHE:CE1	2.73	0.42
45:BN:55:VAL:HA	45:BN:123:TYR:O	2.19	0.42
35:BA:1141:U:H6	45:BN:63:THR:HG22	1.83	0.42
46:BO:23:ARG:CG	46:BO:24:VAL:N	2.67	0.42
47:BP:25:SER:O	47:BP:30:THR:HA	2.19	0.42
47:BP:26:GLY:O	47:BP:27:HIS:CG	2.72	0.42
35:BA:245:G:O2'	47:BP:71:VAL:HG23	2.20	0.42
48:BQ:141:GLN:O	57:BZ:71:VAL:O	2.36	0.42
35:BA:958:U:OP1	48:BQ:41:TRP:HZ3	2.02	0.42
51:BT:78:LEU:C	51:BT:79:HIS:CG	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:59:ARG:O	52:BU:60:LEU:C	2.58	0.42
55:BX:50:LYS:HB3	55:BX:84:ALA:HB2	2.01	0.42
56:BY:13:VAL:HG13	56:BY:14:LEU:H	1.84	0.42
56:BY:27:VAL:O	56:BY:28:LYS:HG3	2.20	0.42
56:BY:30:VAL:HG12	56:BY:32:PRO:HB3	2.02	0.42
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG12	2.45	0.42
57:BZ:31:ARG:HG3	57:BZ:32:HIS:CE1	2.54	0.42
57:BZ:79:ARG:O	57:BZ:80:ARG:C	2.59	0.42
1:AA:1001(A):G:H8	1:AA:1002:G:N9	2.16	0.41
1:AA:1106:G:N3	1:AA:1107:C:C6	2.88	0.41
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.54	0.41
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.20	0.41
1:AA:518:C:C4	1:AA:530:G:N7	2.88	0.41
1:AA:587:G:N2	1:AA:755:G:C5	2.88	0.41
2:AB:8:LYS:NZ	2:AB:217:ARG:NH2	2.68	0.41
3:AC:132:ARG:HH22	4:AD:47:ARG:NH2	2.17	0.41
3:AC:95:THR:HG22	3:AC:97:LYS:HG3	2.02	0.41
4:AD:118:ARG:HG3	4:AD:118:ARG:NH1	2.34	0.41
4:AD:148:VAL:HB	4:AD:181:MET:HB3	2.01	0.41
7:AG:137:LYS:O	7:AG:141:VAL:CG2	2.68	0.41
12:AL:125:PRO:O	12:AL:126:LYS:C	2.58	0.41
12:AL:45:PRO:HB2	12:AL:49:ASN:O	2.20	0.41
13:AM:87:TYR:O	13:AM:90:LEU:HG	2.20	0.41
14:AN:26:ARG:NH1	14:AN:47:LEU:HD23	2.35	0.41
15:AO:26:GLU:O	15:AO:27:VAL:C	2.57	0.41
17:AQ:25:ARG:NH1	17:AQ:27:PHE:CE2	2.88	0.41
17:AQ:27:PHE:CE1	17:AQ:36:ILE:HD12	2.54	0.41
18:AR:44:LEU:HD21	18:AR:79:LEU:HD22	2.02	0.41
19:AS:15:LEU:HB3	19:AS:16:LEU:HD12	2.01	0.41
19:AS:18:LYS:HA	19:AS:18:LYS:HD2	1.71	0.41
20:AT:12:ALA:C	20:AT:14:LYS:H	2.23	0.41
20:AT:48:LYS:O	20:AT:49:ALA:C	2.57	0.41
20:AT:49:ALA:O	20:AT:50:GLU:C	2.58	0.41
24:AY:208:LYS:HB2	24:AY:209:GLY:H	1.62	0.41
24:AY:210:LEU:HB2	24:AY:228:ARG:NH2	2.35	0.41
24:AY:284:THR:CB	24:AY:287:ARG:O	2.69	0.41
24:AY:307:MET:HG2	24:AY:312:ARG:C	2.39	0.41
25:B0:51:VAL:CG2	25:B0:81:VAL:CG2	2.94	0.41
27:B2:37:PHE:C	27:B2:39:ALA:H	2.22	0.41
29:B4:25:TYR:C	29:B4:26:SER:OG	2.59	0.41
32:B7:11:LYS:HE3	35:BA:686:G:C2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:10:ILE:N	34:B9:10:ILE:HD12	2.26	0.41
34:B9:10:ILE:HG21	35:BA:2477:C:C5	2.54	0.41
35:BA:1053:C:N4	35:BA:1108:U:H3	2.18	0.41
35:BA:139:G:H1'	55:BX:41:ASN:OD1	2.20	0.41
35:BA:1482:G:N3	35:BA:1482:G:H2'	2.35	0.41
35:BA:1791:A:O3'	38:BD:206:LEU:CD1	2.64	0.41
35:BA:1911:U:H2'	35:BA:1918:A:H2	1.65	0.41
35:BA:1934:C:H2'	35:BA:1935:G:C5'	2.50	0.41
1:AA:1484:C:C1'	35:BA:1960:A:O2'	2.68	0.41
35:BA:2007:C:C5'	35:BA:2824:C:O2'	2.68	0.41
35:BA:2037:G:H2'	35:BA:2038:G:H8	1.80	0.41
35:BA:2154:G:H2'	35:BA:2155:G:O5'	2.20	0.41
35:BA:2319:G:N3	35:BA:2320:A:C6	2.88	0.41
35:BA:748:G:C5'	35:BA:2612:C:N4	2.82	0.41
35:BA:1265:A:OP2	35:BA:2615:U:OP1	2.38	0.41
35:BA:354:G:H2'	35:BA:355:G:H8	1.85	0.41
35:BA:388:G:C6	35:BA:390:A:C2	3.08	0.41
35:BA:482:A:N7	35:BA:506:G:C2	2.88	0.41
35:BA:727:A:C5	35:BA:728:G:C6	3.08	0.41
35:BA:669:G:C2	35:BA:801:G:C6	3.08	0.41
35:BA:671:C:N4	35:BA:809:G:H1	2.17	0.41
35:BA:852:G:C6	35:BA:926:A:C2	3.08	0.41
35:BA:919:G:H4'	36:BB:81:G:C4'	2.50	0.41
36:BB:58:A:H2'	36:BB:59:A:C8	2.54	0.41
36:BB:9:G:C6	36:BB:10:C:C4	3.08	0.41
37:BC:214:VAL:HG23	37:BC:224:ILE:HG21	2.01	0.41
37:BC:59:ARG:HD2	37:BC:164:ARG:HE	1.83	0.41
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.81	0.41
38:BD:14:ARG:NH1	38:BD:14:ARG:CG	2.80	0.41
38:BD:273:ARG:CG	38:BD:273:ARG:NH1	2.79	0.41
38:BD:79:VAL:HG21	38:BD:112:GLN:O	2.18	0.41
38:BD:21:PHE:HE1	38:BD:91:ARG:HH22	1.68	0.41
39:BE:173:VAL:HB	39:BE:183:LEU:HB3	2.02	0.41
39:BE:4:ILE:O	39:BE:4:ILE:HG23	2.19	0.41
40:BF:115:ALA:O	40:BF:118:ALA:HB3	2.20	0.41
40:BF:13:SER:HA	40:BF:14:PRO:HD3	1.94	0.41
40:BF:24:LEU:O	40:BF:115:ALA:CB	2.58	0.41
41:BG:39:ILE:CG1	41:BG:156:ASP:O	2.67	0.41
45:BN:128:HIS:HA	45:BN:129:PRO:HD2	1.85	0.41
45:BN:35:ARG:O	45:BN:35:ARG:HG3	2.20	0.41
45:BN:47:ALA:H	45:BN:48:MET:CE	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:52:VAL:C	45:BN:53:VAL:HG23	2.41	0.41
45:BN:57:ALA:C	45:BN:58:ASP:O	2.59	0.41
46:BO:21:CYS:SG	46:BO:23:ARG:O	2.78	0.41
35:BA:664:C:OP1	47:BP:21:ARG:NH2	2.52	0.41
48:BQ:38:GLU:H	48:BQ:127:ILE:HD12	1.84	0.41
49:BR:37:THR:CG2	49:BR:40:LYS:HE2	2.50	0.41
52:BU:47:TYR:HE2	53:BV:74:LYS:HZ2	1.66	0.41
53:BV:75:PHE:CE1	53:BV:77:ALA:HA	2.52	0.41
54:BW:8:ARG:HD3	54:BW:102:HIS:CD2	2.55	0.41
54:BW:60:ASN:O	54:BW:60:ASN:OD1	2.38	0.41
57:BZ:15:PRO:O	57:BZ:18:LEU:HD23	2.20	0.41
57:BZ:15:PRO:CA	57:BZ:18:LEU:HD23	2.50	0.41
1:AA:1015:A:N7	1:AA:1016:A:N7	2.68	0.41
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.36	0.41
1:AA:1093:A:C2	1:AA:1109:C:O2	2.72	0.41
1:AA:1129:C:OP1	9:AI:62:TYR:HE2	2.03	0.41
1:AA:1158:C:C2'	1:AA:1158:C:O2	2.68	0.41
1:AA:1266:G:H21	1:AA:1268:A:C5'	2.31	0.41
1:AA:141:A:O4'	1:AA:182:U:H1'	2.20	0.41
1:AA:189(A):C:O2'	1:AA:189(B):C:H5'	2.20	0.41
1:AA:193:C:C2	1:AA:194:C:C5	3.08	0.41
1:AA:295:C:C2'	1:AA:296:U:C6	2.90	0.41
1:AA:353:A:H2'	1:AA:354:G:OP2	2.20	0.41
1:AA:382:A:O2'	1:AA:383:A:H5'	2.20	0.41
1:AA:689:C:P	11:AK:46:GLY:HA3	2.61	0.41
1:AA:782:A:N7	1:AA:783:C:C2	2.88	0.41
1:AA:896:C:O5'	1:AA:896:C:H6	2.03	0.41
1:AA:960:U:H5	19:AS:78:ARG:HD3	1.84	0.41
1:AA:977:A:N6	1:AA:1224:G:OP1	2.53	0.41
2:AB:179:LYS:CA	8:AH:72:PRO:HG3	2.50	0.41
2:AB:42:ILE:CD1	2:AB:202:PRO:C	2.88	0.41
3:AC:141:VAL:HG11	3:AC:202:ILE:HG23	2.01	0.41
4:AD:78:LEU:HD21	4:AD:96:LEU:HB3	2.02	0.41
6:AF:6:VAL:HB	6:AF:63:TYR:CD2	2.55	0.41
6:AF:9:VAL:C	6:AF:10:LEU:HD12	2.40	0.41
8:AH:37:ARG:HE	8:AH:41:ARG:NH2	2.18	0.41
8:AH:96:GLY:O	8:AH:99:GLU:HB2	2.20	0.41
9:AI:65:VAL:O	9:AI:66:ARG:HB2	2.19	0.41
9:AI:79:LEU:HD13	9:AI:79:LEU:C	2.41	0.41
11:AK:24:SER:C	11:AK:26:ASN:H	2.22	0.41
1:AA:520:A:OP1	12:AL:52:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:89:ARG:HH11	12:AL:91:LYS:N	2.18	0.41
16:AP:27:LYS:O	16:AP:28:ARG:C	2.58	0.41
16:AP:45:THR:HG22	16:AP:47:ASP:H	1.85	0.41
16:AP:74:LEU:C	16:AP:79:VAL:CG2	2.89	0.41
20:AT:17:ARG:O	20:AT:18:GLN:C	2.58	0.41
22:AV:3:C:H42	22:AV:70:G:H1	1.67	0.41
22:AV:53:G:H2'	22:AV:53:G:N3	2.35	0.41
24:AY:146:ARG:HD3	35:BA:2656:U:H4'	2.01	0.41
24:AY:155:LEU:CD2	24:AY:166:CYS:HB3	2.25	0.41
24:AY:333:GLN:O	24:AY:335:ARG:N	2.53	0.41
24:AY:456:GLU:HG3	24:AY:456:GLU:O	2.19	0.41
24:AY:79:TYR:CE2	24:AY:269:LEU:HD13	2.55	0.41
24:AY:89:THR:HB	24:AY:90:PRO:HD3	1.98	0.41
30:B5:52:TYR:O	30:B5:53:ALA:HB3	2.20	0.41
33:B8:13:ARG:HB3	47:BP:63:PRO:HB3	2.02	0.41
33:B8:55:ALA:O	33:B8:56:GLU:C	2.59	0.41
35:BA:1050:A:H2'	35:BA:1050:A:N3	2.35	0.41
35:BA:1087:G:H2'	35:BA:1088:A:H4'	2.01	0.41
35:BA:1308:A:N1	35:BA:1611:C:H1'	2.35	0.41
35:BA:1340:U:H4'	35:BA:1394:U:C1'	2.50	0.41
35:BA:1343:G:H1	35:BA:1404:C:N4	2.18	0.41
35:BA:1410:G:C2	35:BA:1593:G:C2	3.08	0.41
35:BA:1753:G:N2	35:BA:1758:G:C8	2.82	0.41
35:BA:1912:A:H5''	35:BA:1918:A:C6	2.54	0.41
26:B1:40:ARG:NH2	35:BA:2232:U:OP2	2.38	0.41
35:BA:2448:A:OP2	35:BA:2498:C:OP2	2.38	0.41
35:BA:2553:G:C6	35:BA:2554:U:O2	2.74	0.41
35:BA:2557:G:C4	35:BA:2558:C:C5	3.07	0.41
35:BA:2574:G:C5	35:BA:2575:C:C4	3.08	0.41
35:BA:2681:C:N3	35:BA:2724:C:C5	2.89	0.41
35:BA:2627:G:N3	35:BA:2781:A:H2	2.17	0.41
35:BA:2847:U:C5	35:BA:2848:G:C6	3.08	0.41
35:BA:479:A:O2'	35:BA:481:G:C5'	2.60	0.41
35:BA:765:G:H8	35:BA:765:G:O5'	2.03	0.41
35:BA:862:G:C2'	35:BA:863:A:O4'	2.65	0.41
37:BC:90:GLY:O	37:BC:153:ILE:CG2	2.68	0.41
35:BA:691:C:O2'	38:BD:43:ARG:HG2	2.21	0.41
38:BD:75:ILE:HG22	38:BD:76:PRO:O	2.20	0.41
38:BD:78:LYS:O	38:BD:95:LEU:CA	2.65	0.41
39:BE:117:MET:CA	39:BE:122:PHE:HB2	2.50	0.41
40:BF:161:GLU:HG3	40:BF:161:GLU:H	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:163:VAL:C	40:BF:166:ALA:HB3	2.41	0.41
40:BF:110:LEU:CD2	40:BF:183:VAL:CG1	2.88	0.41
40:BF:32:LEU:O	40:BF:35:GLU:HB3	2.20	0.41
40:BF:43:LYS:O	40:BF:43:LYS:CG	2.66	0.41
40:BF:65:TRP:CH2	40:BF:75:HIS:CD2	3.05	0.41
40:BF:7:TYR:OH	40:BF:10:PRO:CB	2.64	0.41
41:BG:66:GLN:HB3	41:BG:92:VAL:CG2	2.50	0.41
29:B4:6:HIS:HA	41:BG:67:LYS:CD	2.50	0.41
45:BN:91:LEU:HD23	45:BN:95:PRO:CB	2.50	0.41
45:BN:96:GLU:CG	45:BN:100:GLU:OE2	2.68	0.41
46:BO:32:TYR:N	46:BO:32:TYR:CD1	2.88	0.41
47:BP:105:LEU:H	47:BP:105:LEU:HD12	1.85	0.41
48:BQ:141:GLN:O	57:BZ:53:ILE:HB	2.19	0.41
49:BR:20:LEU:C	49:BR:22:ARG:N	2.72	0.41
49:BR:61:HIS:O	49:BR:65:LEU:HB2	2.20	0.41
49:BR:72:ASP:OD2	49:BR:75:LEU:CD2	2.67	0.41
49:BR:84:ALA:N	49:BR:85:PRO:HD3	2.36	0.41
50:BS:104:GLY:C	50:BS:106:ARG:H	2.23	0.41
51:BT:3:ARG:CB	51:BT:6:LEU:HB2	2.35	0.41
52:BU:27:LEU:C	52:BU:30:LYS:H	2.21	0.41
55:BX:39:ILE:O	55:BX:43:VAL:HG23	2.21	0.41
55:BX:57:LEU:CD2	55:BX:58:HIS:N	2.83	0.41
55:BX:24:GLY:N	55:BX:82:GLN:HE22	2.16	0.41
57:BZ:10:ARG:CB	57:BZ:36:LYS:HG3	2.39	0.41
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.85	0.41
1:AA:1116:C:O2	1:AA:1185:G:C2	2.73	0.41
1:AA:1128:C:H5''	9:AI:16:ARG:NH2	2.35	0.41
1:AA:1298:C:C5	7:AG:114:ARG:CZ	3.03	0.41
1:AA:1527:C:H2'	1:AA:1528:U:C6	2.55	0.41
1:AA:15:G:O6	1:AA:16:A:N6	2.53	0.41
1:AA:260:G:H2'	1:AA:261:U:C6	2.55	0.41
1:AA:62:U:OP1	1:AA:386:C:H5'	2.20	0.41
1:AA:720:C:C3'	1:AA:721:G:C8	3.00	0.41
1:AA:883:C:C2	1:AA:884:U:C5	3.08	0.41
1:AA:959:A:H5'	1:AA:985:C:H4'	2.01	0.41
2:AB:155:LEU:HD11	2:AB:157:ARG:O	2.19	0.41
2:AB:165:VAL:O	2:AB:187:LEU:O	2.38	0.41
2:AB:212:GLN:HE22	2:AB:216:SER:HB2	1.84	0.41
4:AD:5:ILE:HG22	4:AD:6:GLY:N	2.35	0.41
5:AE:84:PHE:HB2	5:AE:134:ALA:HB2	2.02	0.41
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:46:ARG:NH2	18:AR:37:VAL:CG2	2.83	0.41
1:AA:939:G:C5'	7:AG:102:ARG:HH22	2.31	0.41
9:AI:19:LEU:HA	9:AI:60:ASP:O	2.19	0.41
9:AI:96:LEU:HD12	9:AI:96:LEU:HA	1.90	0.41
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.88	0.41
12:AL:89:ARG:CD	12:AL:91:LYS:H	2.33	0.41
13:AM:70:LEU:O	13:AM:74:VAL:HG23	2.19	0.41
1:AA:1048:G:C5'	14:AN:2:ALA:HB1	2.49	0.41
17:AQ:56:VAL:C	17:AQ:57:VAL:CG1	2.88	0.41
19:AS:39:THR:CG2	19:AS:40:ILE:N	2.80	0.41
1:AA:958:A:N6	19:AS:77:THR:O	2.53	0.41
20:AT:40:ALA:CA	20:AT:55:ILE:HG21	2.49	0.41
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.19	0.41
24:AY:139:THR:O	24:AY:255:PHE:HB2	2.20	0.41
24:AY:492:GLN:C	24:AY:504:ILE:HG12	2.40	0.41
24:AY:492:GLN:HB3	24:AY:504:ILE:HG12	2.02	0.41
25:B0:7:LEU:HD22	48:BQ:85:LYS:CG	2.42	0.41
26:B1:51:VAL:O	26:B1:52:ARG:O	2.38	0.41
27:B2:13:ALA:C	27:B2:15:LYS:H	2.24	0.41
27:B2:30:ARG:HH21	55:BX:46:ALA:HA	1.85	0.41
27:B2:58:ALA:O	27:B2:59:ARG:C	2.59	0.41
33:B8:13:ARG:O	33:B8:24:ALA:CB	2.69	0.41
33:B8:48:PHE:CZ	35:BA:650:C:OP1	2.73	0.41
35:BA:116:C:H4'	35:BA:127:A:O4'	2.20	0.41
35:BA:1524:G:C6	35:BA:1525:G:C5	3.09	0.41
35:BA:1797:C:C2	35:BA:1823:G:C2	3.08	0.41
35:BA:1839:G:C5	35:BA:1927:A:N3	2.88	0.41
35:BA:1130:U:C2	35:BA:2025:C:H5''	2.55	0.41
35:BA:2100:G:N1	35:BA:2101:G:C2	2.88	0.41
35:BA:214:G:N2	35:BA:215:G:N2	2.68	0.41
35:BA:2532:G:O5'	35:BA:2532:G:C8	2.60	0.41
35:BA:2699:C:C4	35:BA:2700:C:C5	3.08	0.41
35:BA:2744:G:C4	35:BA:2761:G:C2	3.08	0.41
35:BA:2822:G:C2'	35:BA:2823:A:O5'	2.68	0.41
35:BA:28:A:H2'	35:BA:29:U:O4'	2.20	0.41
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.20	0.41
35:BA:641:C:H2'	35:BA:642:G:O4'	2.20	0.41
35:BA:89:G:H3'	35:BA:90:U:C5'	2.50	0.41
35:BA:953:A:C2	35:BA:965:C:C2	3.08	0.41
35:BA:9:U:O2	35:BA:10:G:N9	2.54	0.41
37:BC:161:ILE:HG21	37:BC:174:PRO:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:53:ARG:HB3	37:BC:53:ARG:NH1	2.35	0.41
37:BC:77:ILE:C	37:BC:78:ALA:O	2.58	0.41
38:BD:66:ASP:CB	38:BD:103:ARG:HD2	2.48	0.41
38:BD:147:LEU:CD1	38:BD:155:LEU:HD11	2.51	0.41
35:BA:1792:G:P	38:BD:206:LEU:HD11	2.59	0.41
39:BE:113:PHE:CD1	39:BE:158:GLY:HA2	2.55	0.41
39:BE:175:VAL:O	39:BE:175:VAL:HG13	2.20	0.41
40:BF:109:GLY:C	40:BF:112:MET:HB3	2.41	0.41
42:BH:40:GLU:O	42:BH:41:MET:CB	2.67	0.41
47:BP:138:LEU:HG	47:BP:138:LEU:O	2.20	0.41
47:BP:146:VAL:CG2	47:BP:147:LEU:N	2.75	0.41
48:BQ:111:GLU:C	48:BQ:113:GLN:N	2.71	0.41
35:BA:863:A:OP2	48:BQ:22:LYS:HB2	2.20	0.41
49:BR:71:GLN:O	49:BR:72:ASP:C	2.58	0.41
50:BS:25:ARG:O	50:BS:39:ILE:HA	2.21	0.41
51:BT:25:GLY:H	51:BT:49:VAL:CG1	2.33	0.41
51:BT:33:LYS:HZ1	51:BT:43:GLN:HG2	1.85	0.41
51:BT:61:PHE:C	51:BT:62:THR:HG23	2.41	0.41
52:BU:12:ARG:O	52:BU:15:LYS:HG2	2.20	0.41
53:BV:34:GLU:O	53:BV:36:PRO:CD	2.69	0.41
53:BV:59:ALA:HB2	53:BV:96:ILE:HA	2.02	0.41
53:BV:61:VAL:O	53:BV:62:LEU:C	2.58	0.41
54:BW:4:LYS:HG2	54:BW:5:ALA:N	2.35	0.41
54:BW:18:ARG:NH1	54:BW:76:VAL:CG1	2.82	0.41
1:AA:1092:A:C2	1:AA:1183:A:N1	2.89	0.41
1:AA:1113:C:N4	1:AA:1188:A:C2	2.88	0.41
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.21	0.41
1:AA:1239:A:N3	1:AA:1241:G:C6	2.89	0.41
1:AA:1309:G:P	13:AM:88:ARG:HH11	2.43	0.41
1:AA:1405:G:HO2'	1:AA:1519:A:H5'	1.80	0.41
1:AA:284:G:H2'	1:AA:285:G:C8	2.55	0.41
1:AA:927:G:N1	1:AA:1391:U:O2	2.53	0.41
1:AA:998:G:C2	1:AA:999:C:N3	2.89	0.41
2:AB:204:ASN:HD21	2:AB:206:ASP:N	2.04	0.41
3:AC:64:VAL:CG1	3:AC:65:ALA:N	2.77	0.41
3:AC:35:GLU:OE2	3:AC:95:THR:HG23	2.19	0.41
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	2.03	0.41
7:AG:50:ILE:CD1	7:AG:121:ALA:HB1	2.51	0.41
10:AJ:27:ALA:C	10:AJ:30:SER:HB3	2.40	0.41
10:AJ:56:HIS:C	10:AJ:58:ASP:N	2.73	0.41
11:AK:82:VAL:HG12	11:AK:108:ILE:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:19:ALA:O	11:AK:82:VAL:HA	2.21	0.41
7:AG:150:ALA:HA	11:AK:59:TYR:HB3	2.01	0.41
11:AK:62:GLN:O	11:AK:63:LEU:C	2.59	0.41
17:AQ:18:THR:HG21	17:AQ:69:LYS:HD2	2.02	0.41
17:AQ:52:LYS:HB3	17:AQ:52:LYS:HE3	1.69	0.41
17:AQ:63:ARG:HA	17:AQ:64:PRO:HD3	1.84	0.41
1:AA:718:G:O6	18:AR:81:PHE:HD2	2.03	0.41
19:AS:78:ARG:CB	19:AS:81:ARG:HH12	2.30	0.41
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	2.01	0.41
20:AT:41:ILE:HG12	20:AT:41:ILE:H	1.50	0.41
24:AY:7:LEU:C	24:AY:10:VAL:HG23	2.40	0.41
24:AY:140:PHE:HA	24:AY:255:PHE:O	2.20	0.41
24:AY:174:GLY:C	24:AY:179:PHE:HA	2.41	0.41
24:AY:297:THR:HB	24:AY:322:SER:HG	1.76	0.41
24:AY:303:ILE:HG12	24:AY:316:ALA:CB	2.46	0.41
24:AY:308:ASP:H	24:AY:309:PRO:CD	2.19	0.41
24:AY:431:ILE:CD1	24:AY:431:ILE:H	2.17	0.41
24:AY:417:VAL:HG13	24:AY:497:GLY:O	2.21	0.41
33:B8:13:ARG:O	33:B8:24:ALA:HB1	2.20	0.41
35:BA:1058:G:C6	35:BA:1059:G:N7	2.88	0.41
35:BA:1032:A:H61	35:BA:1123:C:H42	1.68	0.41
35:BA:1265:A:OP1	35:BA:1265:A:H8	2.03	0.41
35:BA:1272:A:H3'	35:BA:1273:U:C5'	2.39	0.41
35:BA:1313:U:C3'	35:BA:1313:U:O2	2.68	0.41
35:BA:1341:U:OP2	35:BA:1394:U:H1'	2.21	0.41
35:BA:1429:G:O4'	35:BA:1568:G:H1'	2.19	0.41
35:BA:1747:G:O5'	35:BA:1747:G:H8	2.03	0.41
35:BA:2019:A:C5	35:BA:2020:A:N7	2.89	0.41
25:B0:16:SER:OG	35:BA:2261:C:H3'	2.20	0.41
35:BA:2492:U:O2'	35:BA:2493:U:H5'	2.20	0.41
35:BA:2511:U:O4	35:BA:2575:C:N3	2.53	0.41
35:BA:527:C:P	35:BA:2779:U:O4	2.78	0.41
35:BA:635:C:O2'	35:BA:639:U:OP1	2.38	0.41
35:BA:814:C:O2'	35:BA:815:C:C5'	2.56	0.41
35:BA:996:A:C5	35:BA:1160:G:C2	3.09	0.41
38:BD:44:ASN:CB	38:BD:48:ARG:O	2.62	0.41
35:BA:743:G:OP1	39:BE:130:GLY:O	2.38	0.41
39:BE:65:GLY:O	39:BE:66:HIS:C	2.59	0.41
40:BF:11:VAL:HB	40:BF:12:LEU:H	1.68	0.41
40:BF:160:ASN:O	40:BF:164:ARG:HB2	2.21	0.41
42:BH:104:GLU:CG	42:BH:104:GLU:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:105:LEU:C	42:BH:106:THR:CG2	2.88	0.41
42:BH:54:ARG:CG	42:BH:54:ARG:HH11	2.31	0.41
47:BP:62:LEU:HD23	47:BP:62:LEU:N	2.34	0.41
48:BQ:12:GLN:CD	48:BQ:73:PRO:CD	2.89	0.41
49:BR:96:ARG:CD	49:BR:98:LEU:HD11	2.38	0.41
51:BT:61:PHE:O	51:BT:62:THR:CG2	2.68	0.41
52:BU:95:LEU:HD13	53:BV:4:ILE:CG2	2.46	0.41
54:BW:83:LYS:HZ3	54:BW:97:LYS:HD3	1.84	0.41
56:BY:24:VAL:HG12	56:BY:25:GLY:N	2.36	0.41
56:BY:2:ARG:HD3	56:BY:3:VAL:HG23	2.02	0.41
56:BY:88:LYS:HD2	56:BY:88:LYS:N	2.35	0.41
57:BZ:54:HIS:HB3	57:BZ:101:PRO:CG	2.51	0.41
1:AA:1000:U:C4	1:AA:1001:A:N7	2.89	0.41
1:AA:1000:U:H6	1:AA:1000:U:H3'	1.84	0.41
1:AA:108:G:O4'	1:AA:108:G:N3	2.53	0.41
1:AA:1268:A:N3	1:AA:1268:A:H2'	2.35	0.41
1:AA:1325:C:N4	1:AA:1326:C:N4	2.64	0.41
1:AA:1353:G:H8	1:AA:1353:G:O5'	2.03	0.41
1:AA:1464:G:C6	1:AA:1465:C:N4	2.89	0.41
1:AA:1501:C:N4	1:AA:1504:G:C2	2.88	0.41
1:AA:15:G:C4	1:AA:16:A:C8	3.08	0.41
1:AA:407:G:H1	1:AA:435:C:N4	2.19	0.41
1:AA:584:G:O2'	1:AA:585:G:H5'	2.20	0.41
1:AA:648:A:H2'	1:AA:649:G:C8	2.55	0.41
1:AA:662:G:N2	1:AA:663:A:N3	2.67	0.41
1:AA:66:G:N2	1:AA:172:A:C2	2.84	0.41
1:AA:672:U:O2	1:AA:673:G:N7	2.53	0.41
1:AA:714:G:C6	1:AA:715:A:C6	3.09	0.41
1:AA:786:G:C6	1:AA:787:A:N7	2.89	0.41
1:AA:887:G:H2'	1:AA:888:G:H5'	2.03	0.41
1:AA:899:C:OP1	1:AA:899:C:H6	2.04	0.41
1:AA:79:G:N2	1:AA:91:C:N4	2.68	0.41
2:AB:19:HIS:CD2	2:AB:20:GLU:OE1	2.72	0.41
2:AB:61:LEU:HA	2:AB:61:LEU:HD12	1.86	0.41
4:AD:57:ARG:HH22	5:AE:107:ARG:NH1	2.19	0.41
5:AE:70:PRO:CG	5:AE:142:LEU:HD13	2.48	0.41
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.44	0.41
6:AF:4:TYR:HD1	6:AF:92:LYS:HG3	1.79	0.41
9:AI:79:LEU:HD22	9:AI:79:LEU:HA	1.88	0.41
12:AL:36:VAL:HG11	24:AY:406:PRO:CG	2.50	0.41
12:AL:36:VAL:HG12	12:AL:82:VAL:CG1	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:529:G:O6	12:AL:49:ASN:ND2	2.53	0.41
10:AJ:53:PRO:CA	14:AN:42:ILE:HD11	2.50	0.41
1:AA:728:A:H62	15:AO:51:HIS:CD2	2.38	0.41
16:AP:79:VAL:HB	16:AP:80:PHE:CD1	2.56	0.41
17:AQ:3:LYS:HD3	17:AQ:61:GLU:O	2.20	0.41
18:AR:60:ALA:O	18:AR:63:GLN:HB3	2.20	0.41
22:AV:21:A:C6	22:AV:46:G:C4	3.08	0.41
22:AV:31:G:C2	22:AV:40:C:C2	3.09	0.41
22:AV:55:U:H2'	22:AV:57:A:OP2	2.20	0.41
24:AY:346:LEU:O	24:AY:348:PHE:CE2	2.73	0.41
24:AY:368:HIS:HB3	24:AY:369:ASN:H	1.65	0.41
24:AY:380:THR:OG1	24:AY:383:GLU:HB2	2.21	0.41
24:AY:469:ALA:HB3	24:AY:507:SER:O	2.21	0.41
25:B0:29:GLN:O	25:B0:66:VAL:HA	2.21	0.41
29:B4:8:LYS:HE3	29:B4:8:LYS:HB2	1.88	0.41
35:BA:1163:G:H2'	35:BA:1164:G:H8	1.86	0.41
35:BA:48:G:O2'	35:BA:118:A:N1	2.50	0.41
35:BA:1221:C:C2'	35:BA:1221(A):C:C6	2.90	0.41
35:BA:1258:C:H1'	40:BF:84:VAL:CG2	2.40	0.41
35:BA:1383:C:H3'	35:BA:1383:C:H6	1.86	0.41
35:BA:1542:A:C2	35:BA:1544:A:C5	3.08	0.41
35:BA:1642:G:H2'	35:BA:1643:G:C5'	2.51	0.41
35:BA:1792:G:C5	35:BA:1793:C:C5	3.08	0.41
35:BA:1799:G:C4'	35:BA:1800:C:H6	2.34	0.41
35:BA:1842:G:H2'	35:BA:1843:C:O4'	2.20	0.41
35:BA:1909:C:N4	35:BA:1922:G:C6	2.89	0.41
35:BA:2077:A:C2'	35:BA:2078:C:H5'	2.48	0.41
35:BA:2185:C:C2'	35:BA:2186:G:H5'	2.51	0.41
35:BA:220:G:H22	35:BA:427:U:H2'	1.85	0.41
35:BA:2308:G:HO2'	35:BA:2309:A:H8	1.65	0.41
35:BA:2545:G:N3	35:BA:2565:A:H2	2.18	0.41
35:BA:2573:C:OP1	35:BA:2574:G:H5''	2.20	0.41
35:BA:2721:A:H2'	35:BA:2722:G:C8	2.54	0.41
35:BA:2758:A:O2'	35:BA:2759:G:H8	2.04	0.41
35:BA:389:G:C6	47:BP:70:GLN:HG3	2.55	0.41
35:BA:919:G:C4	35:BA:920:G:N7	2.88	0.41
36:BB:112:U:H2'	36:BB:113:G:C8	2.56	0.41
36:BB:17:C:H42	36:BB:68:C:H42	1.68	0.41
36:BB:67:G:HO2'	36:BB:68:C:P	2.43	0.41
37:BC:59:ARG:CB	37:BC:164:ARG:HG3	2.50	0.41
37:BC:22:ILE:CG2	37:BC:22:ILE:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:28:LEU:HD21	37:BC:32:LEU:HD11	2.03	0.41
38:BD:120:GLY:O	38:BD:131:LEU:HD23	2.20	0.41
38:BD:171:ASP:O	38:BD:171:ASP:OD1	2.38	0.41
38:BD:248:SER:OG	38:BD:252:TRP:NE1	2.39	0.41
35:BA:2820:A:O2'	39:BE:191:PRO:CG	2.67	0.41
35:BA:2784:C:C4'	39:BE:42:ASP:OD1	2.64	0.41
40:BF:33:LEU:CD2	40:BF:112:MET:SD	3.08	0.41
40:BF:18:ARG:NH1	40:BF:199:TRP:CZ3	2.88	0.41
41:BG:116:ASP:HB3	41:BG:117:PHE:H	1.66	0.41
41:BG:46:ALA:N	41:BG:47:LYS:HD2	2.35	0.41
42:BH:148:ILE:HA	42:BH:151:ILE:HD11	2.03	0.41
35:BA:1667:G:OP1	46:BO:7:TYR:N	2.54	0.41
48:BQ:55:VAL:CA	48:BQ:58:PHE:CE1	2.97	0.41
50:BS:14:VAL:HG12	50:BS:15:ARG:N	2.34	0.41
50:BS:71:ARG:O	50:BS:72:ALA:O	2.39	0.41
52:BU:52:ARG:HA	52:BU:55:ARG:NH1	2.35	0.41
56:BY:75:ILE:O	56:BY:76:CYS:CB	2.68	0.41
1:AA:1120:G:H2'	1:AA:1121:U:C6	2.56	0.41
1:AA:1157:A:H61	1:AA:1178:G:H21	1.68	0.41
1:AA:1168:A:C8	1:AA:1168:A:OP1	2.68	0.41
1:AA:1197:G:C2	1:AA:1198:G:C8	3.08	0.41
1:AA:960:U:C6	1:AA:1225:A:C8	3.08	0.41
1:AA:1407:C:H42	1:AA:1408:A:N6	2.18	0.41
1:AA:1483:A:C2	35:BA:1960:A:O4'	2.73	0.41
1:AA:148:G:N2	1:AA:175:C:N3	2.68	0.41
1:AA:357:G:O2'	1:AA:358:U:H5'	2.21	0.41
1:AA:446:G:H2'	1:AA:447:G:O4'	2.19	0.41
1:AA:27:G:C6	1:AA:557:G:N1	2.88	0.41
1:AA:834:C:N3	1:AA:853:G:C2	2.88	0.41
1:AA:770:C:C4'	1:AA:900:A:H2	2.33	0.41
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.21	0.41
1:AA:976:G:C5'	1:AA:1358:U:O2	2.69	0.41
1:AA:978:A:H2'	1:AA:979:C:H6	1.85	0.41
3:AC:94:LEU:HD12	3:AC:94:LEU:C	2.41	0.41
5:AE:12:LEU:CD2	5:AE:13:ILE:H	2.19	0.41
5:AE:56:GLN:HB3	5:AE:57:LYS:H	1.68	0.41
7:AG:15:ASP:HB3	7:AG:19:GLY:HA2	1.99	0.41
1:AA:1377:A:OP2	7:AG:94:ARG:NH1	2.53	0.41
8:AH:5:PRO:O	8:AH:8:ASP:CA	2.68	0.41
9:AI:33:PHE:O	9:AI:34:ASN:C	2.59	0.41
10:AJ:56:HIS:C	10:AJ:58:ASP:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:114:TYR:OH	10:AJ:59:SER:HA	2.21	0.41
1:AA:716:A:H1'	11:AK:117:ASN:O	2.20	0.41
12:AL:83:VAL:HG12	12:AL:107:ALA:HB2	1.97	0.41
12:AL:77:LEU:HD22	12:AL:81:SER:HB3	2.03	0.41
13:AM:61:GLU:HA	13:AM:66:LEU:HD13	2.03	0.41
14:AN:19:ARG:HB3	14:AN:20:ALA:H	1.65	0.41
14:AN:25:VAL:HB	14:AN:38:GLY:O	2.21	0.41
15:AO:25:THR:HG1	15:AO:70:LEU:HD21	1.81	0.41
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.35	0.41
16:AP:8:ARG:HG2	16:AP:9:PHE:N	2.36	0.41
18:AR:74:ARG:HG2	18:AR:79:LEU:O	2.20	0.41
19:AS:20:LEU:HD23	19:AS:23:ASN:CB	2.51	0.41
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.40	0.41
23:AX:17:U:N3	23:AX:18:G:N7	2.68	0.41
24:AY:15:THR:C	24:AY:106:VAL:HG23	2.41	0.41
24:AY:171:TRP:NE1	24:AY:234:VAL:CG1	2.75	0.41
1:AA:55:A:N3	24:AY:311:HIS:CD2	2.88	0.41
24:AY:369:ASN:HB2	24:AY:373:ILE:CD1	2.50	0.41
27:B2:3:LEU:HD23	27:B2:3:LEU:O	2.20	0.41
31:B6:20:ASN:O	31:B6:21:TYR:CG	2.74	0.41
33:B8:7:HIS:CE1	33:B8:9:GLY:CA	2.90	0.41
35:BA:1151:G:C2	35:BA:1152:C:C2	3.08	0.41
35:BA:133:C:H6	35:BA:133:C:O5'	2.03	0.41
35:BA:1392:A:O5'	35:BA:1392:A:H8	2.04	0.41
35:BA:1422:G:C5	35:BA:1423:G:N7	2.89	0.41
35:BA:142:A:N6	35:BA:1596:A:H5'	2.36	0.41
35:BA:1613:G:H2'	35:BA:1613:G:N3	2.36	0.41
35:BA:1659:U:OP2	39:BE:132:HIS:CE1	2.74	0.41
35:BA:210:C:H6	35:BA:210:C:O5'	2.03	0.41
35:BA:2248:C:H3'	35:BA:2249:U:C6	2.56	0.41
35:BA:2333:A:H1'	35:BA:2335:A:N7	2.36	0.41
35:BA:2356:C:C2'	35:BA:2357:U:H5'	2.50	0.41
35:BA:2531:A:H61	35:BA:2662:A:H61	1.68	0.41
35:BA:2564:A:C6	35:BA:2565:A:C6	3.09	0.41
35:BA:2073:C:O2'	35:BA:2598:A:O2'	2.37	0.41
35:BA:2634:G:H2'	35:BA:2635:C:H6	1.84	0.41
35:BA:263:C:H2'	35:BA:264:C:C6	2.55	0.41
35:BA:2532:G:N2	35:BA:2662:A:N1	2.69	0.41
35:BA:2776:A:H4'	35:BA:2778:A:H5''	2.03	0.41
35:BA:282:A:H5'	35:BA:352:G:O6	2.20	0.41
35:BA:514:A:O2'	35:BA:515:A:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:516:C:H2'	35:BA:517:C:C6	2.56	0.41
35:BA:601:C:H5'	40:BF:108:LYS:HZ2	1.85	0.41
35:BA:754:C:H2'	35:BA:755:C:C5	2.51	0.41
35:BA:813:U:N3	35:BA:814:C:C4	2.89	0.41
35:BA:860:U:H1'	35:BA:2268:A:H5'	2.01	0.41
35:BA:990:A:O5'	35:BA:991:C:P	2.78	0.41
36:BB:85:G:N2	36:BB:93:G:C5	2.88	0.41
37:BC:3:HIS:CG	37:BC:7:TYR:CE2	3.08	0.41
38:BD:198:ASN:ND2	38:BD:198:ASN:O	2.54	0.41
38:BD:225:ALA:O	38:BD:226:MET:O	2.38	0.41
40:BF:185:ASP:OD1	40:BF:188:ARG:HD3	2.20	0.41
40:BF:36:VAL:HG12	40:BF:36:VAL:O	2.19	0.41
35:BA:1248:G:OP1	40:BF:92:PRO:CG	2.68	0.41
48:BQ:26:TYR:CB	48:BQ:137:TYR:HD1	2.33	0.41
49:BR:47:PHE:HB3	49:BR:48:VAL:H	1.55	0.41
50:BS:20:ARG:NH1	50:BS:20:ARG:HG2	2.35	0.41
50:BS:29:PHE:CD1	50:BS:29:PHE:O	2.74	0.41
51:BT:3:ARG:HB3	51:BT:6:LEU:CB	2.36	0.41
52:BU:28:ARG:HD3	52:BU:38:THR:HG23	2.01	0.41
53:BV:7:THR:HG1	53:BV:25:LEU:HD11	1.82	0.41
53:BV:39:LEU:HD13	53:BV:47:VAL:HG11	2.02	0.41
56:BY:20:TYR:CD1	56:BY:20:TYR:N	2.89	0.41
56:BY:38:ILE:CD1	56:BY:66:PRO:HG3	2.50	0.41
56:BY:91:GLU:HB3	56:BY:92:ASN:H	1.69	0.41
57:BZ:30:ASN:O	57:BZ:33:LEU:N	2.53	0.41
57:BZ:71:VAL:CG1	57:BZ:73:GLN:O	2.68	0.41
57:BZ:87:ASP:C	57:BZ:88:PHE:CD1	2.94	0.41
1:AA:1028:C:O2	1:AA:1033:G:N1	2.52	0.41
1:AA:1134:G:N2	1:AA:1141:C:N3	2.69	0.41
1:AA:1316:G:O3'	14:AN:18:VAL:CG2	2.67	0.41
1:AA:1488:G:C4	1:AA:1489:G:N7	2.89	0.41
1:AA:345:C:H3'	51:BT:36:GLU:OE2	2.20	0.41
1:AA:411:A:C5	1:AA:429:U:C5	3.08	0.41
1:AA:471:G:O5'	1:AA:471:G:C8	2.71	0.41
1:AA:559:A:C5'	1:AA:560:U:O3'	2.69	0.41
1:AA:580:U:H4'	15:AO:58:MET:CG	2.51	0.41
1:AA:637:G:H2'	1:AA:638:G:O4'	2.21	0.41
1:AA:751:U:H2'	1:AA:752:G:O4'	2.19	0.41
1:AA:773:G:N3	1:AA:774:G:C8	2.88	0.41
1:AA:980:C:H3'	1:AA:981:U:C6	2.55	0.41
2:AB:158:LEU:HD22	2:AB:182:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:212:GLN:CD	2:AB:212:GLN:C	2.79	0.41
2:AB:222:ILE:O	2:AB:226:ARG:N	2.47	0.41
2:AB:22:LYS:NZ	2:AB:40:HIS:CE1	2.89	0.41
2:AB:30:ARG:HG3	2:AB:31:TYR:N	2.29	0.41
2:AB:92:TYR:CD1	2:AB:92:TYR:C	2.94	0.41
3:AC:22:TRP:CG	3:AC:59:ARG:HG3	2.55	0.41
3:AC:63:ASN:O	3:AC:63:ASN:CG	2.58	0.41
4:AD:108:LEU:HD23	4:AD:110:PHE:CD2	2.50	0.41
4:AD:3:ARG:HE	4:AD:5:ILE:HG13	1.86	0.41
4:AD:94:LEU:HA	4:AD:94:LEU:HD23	1.93	0.41
5:AE:63:ARG:HA	5:AE:66:MET:CE	2.51	0.41
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.88	0.41
9:AI:25:LYS:HB2	9:AI:25:LYS:HE3	1.81	0.41
10:AJ:98:ILE:HG22	10:AJ:98:ILE:O	2.21	0.41
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.97	0.41
11:AK:58:PRO:HB2	11:AK:93:GLN:HG3	2.02	0.41
12:AL:43:VAL:HG23	12:AL:53:ARG:HB3	2.02	0.41
13:AM:69:GLU:O	13:AM:73:GLU:HG3	2.20	0.41
15:AO:65:ARG:O	15:AO:66:LEU:C	2.59	0.41
16:AP:45:THR:HG22	16:AP:47:ASP:N	2.36	0.41
16:AP:55:ARG:O	16:AP:58:TYR:N	2.53	0.41
17:AQ:11:VAL:HG23	17:AQ:12:SER:N	2.35	0.41
1:AA:760:G:H21	17:AQ:94:ASN:HB3	1.81	0.41
18:AR:53:ARG:NH1	18:AR:60:ALA:CA	2.79	0.41
19:AS:20:LEU:HD23	19:AS:20:LEU:HA	1.85	0.41
20:AT:62:LEU:CA	20:AT:65:LYS:HG3	2.51	0.41
22:AV:52:G:C2	22:AV:63:G:C5	3.09	0.41
22:AV:64:G:H2'	22:AV:65:C:C1'	2.51	0.41
24:AY:258:THR:O	24:AY:258:THR:CG2	2.69	0.41
24:AY:324:LYS:NZ	24:AY:326:GLU:OE2	2.45	0.41
24:AY:89:THR:HB	24:AY:99:THR:HG21	1.99	0.41
24:AY:97:GLU:C	24:AY:99:THR:H	2.24	0.41
26:B1:24:ALA:O	26:B1:25:LYS:C	2.59	0.41
31:B6:6:ARG:HB2	31:B6:7:ILE:H	1.52	0.41
33:B8:7:HIS:HB3	33:B8:59:LYS:HB3	2.02	0.41
33:B8:63:PRO:O	33:B8:64:TYR:O	2.39	0.41
34:B9:1:MET:CG	34:B9:31:LYS:O	2.69	0.41
35:BA:1011:G:O2'	35:BA:1013:C:O4'	2.30	0.41
35:BA:1023:U:O4'	35:BA:1123:C:OP1	2.38	0.41
35:BA:1058:G:C2	35:BA:1059:G:N7	2.88	0.41
35:BA:1268:A:H2'	35:BA:1269:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1334:G:C2'	35:BA:1335:U:O5'	2.69	0.41
35:BA:1403:C:H2'	35:BA:1404:C:O5'	2.20	0.41
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.56	0.41
35:BA:1774:C:H2'	35:BA:1774:C:O2	2.21	0.41
35:BA:1848:A:H2'	35:BA:1849:G:O4'	2.21	0.41
35:BA:1922:G:C2	35:BA:1923:U:C2	3.09	0.41
35:BA:201:C:H4'	35:BA:386:G:C2	2.56	0.41
26:B1:40:ARG:HH12	35:BA:2232:U:P	2.43	0.41
35:BA:2348:U:HO2'	35:BA:2349:G:H5'	1.83	0.41
35:BA:2510:C:C2'	35:BA:2511:U:H5'	2.50	0.41
35:BA:1669:A:H4'	35:BA:2549:G:H4'	2.02	0.41
35:BA:2591:C:OP1	38:BD:239:ARG:CG	2.69	0.41
35:BA:2601:C:C2	35:BA:2603:G:N7	2.89	0.41
35:BA:268:C:H42	35:BA:424:G:H1	1.68	0.41
35:BA:2701:C:H2'	35:BA:2702:U:C6	2.56	0.41
35:BA:2720:U:O4	35:BA:2872:G:C6	2.74	0.41
35:BA:465:G:H2'	35:BA:466:A:C8	2.56	0.41
35:BA:552:G:H1'	35:BA:1220:A:N1	2.35	0.41
32:B7:7:PRO:CA	35:BA:686:G:H8	2.26	0.41
35:BA:695:G:H2'	35:BA:696:G:H8	1.85	0.41
35:BA:733:G:O6	35:BA:761:A:C8	2.74	0.41
35:BA:830:G:C5	35:BA:2448:A:C5	3.08	0.41
35:BA:857:C:N4	35:BA:858:U:O4	2.53	0.41
35:BA:954:G:C2'	35:BA:955:C:H5'	2.50	0.41
36:BB:116:G:N2	36:BB:117:G:C5	2.89	0.41
36:BB:52:A:O2'	36:BB:53:A:C8	2.66	0.41
36:BB:7:G:C2'	36:BB:8:U:H5''	2.50	0.41
37:BC:114:VAL:CG1	37:BC:144:THR:HG22	2.51	0.41
37:BC:168:THR:O	37:BC:170:ALA:N	2.53	0.41
38:BD:79:VAL:HG23	38:BD:115:GLN:N	2.36	0.41
38:BD:130:ALA:HB1	38:BD:191:ALA:O	2.21	0.41
38:BD:204:ILE:HD13	38:BD:204:ILE:O	2.21	0.41
38:BD:227:ASN:CB	38:BD:228:PRO:HD2	2.50	0.41
38:BD:43:ARG:HG3	38:BD:43:ARG:H	1.58	0.41
38:BD:45:ASN:H	38:BD:45:ASN:HD22	1.69	0.41
39:BE:92:THR:OG1	39:BE:93:VAL:N	2.52	0.41
39:BE:98:PRO:HG3	39:BE:174:ASP:HA	2.03	0.41
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.55	0.41
40:BF:65:TRP:HB2	40:BF:66:PRO:CD	2.51	0.41
36:BB:42:C:H42	41:BG:91:ARG:HD3	1.85	0.41
45:BN:39:ARG:O	45:BN:42:TRP:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:25:LEU:HD11	46:BO:59:LYS:HE2	2.03	0.41
1:AA:339:C:P	46:BO:96:THR:OG1	2.79	0.41
48:BQ:59:ARG:O	48:BQ:60:ARG:C	2.59	0.41
53:BV:91:TYR:C	53:BV:91:TYR:HD1	2.21	0.41
54:BW:107:LEU:N	54:BW:107:LEU:HD12	2.35	0.41
57:BZ:133:ILE:C	57:BZ:134:PRO:O	2.59	0.41
1:AA:1083:U:H3'	1:AA:1084:G:C8	2.56	0.41
1:AA:1251:A:O4'	1:AA:1370:G:H4'	2.21	0.41
1:AA:1325:C:C6	1:AA:1325:C:OP2	2.74	0.41
1:AA:1374:A:H2'	1:AA:1375:A:H5'	2.02	0.41
1:AA:1418:A:H2	1:AA:1483:A:N3	2.18	0.41
1:AA:741:G:O2'	1:AA:742:G:C5'	2.69	0.41
1:AA:697:U:C4'	1:AA:786:G:H4'	2.51	0.41
1:AA:833:U:H2'	1:AA:834:C:C6	2.56	0.41
1:AA:990:C:H2'	1:AA:991:U:O4'	2.20	0.41
3:AC:67:THR:CG2	3:AC:102:ASN:HB2	2.37	0.41
4:AD:200:GLU:HG2	4:AD:201:GLN:N	2.36	0.41
8:AH:124:ALA:HB1	8:AH:129:VAL:O	2.20	0.41
8:AH:9:MET:HG3	8:AH:26:VAL:CB	2.51	0.41
8:AH:63:LEU:N	8:AH:63:LEU:CD2	2.79	0.41
8:AH:94:TYR:CD1	8:AH:94:TYR:N	2.89	0.41
10:AJ:65:LEU:O	10:AJ:67:THR:N	2.54	0.41
12:AL:31:PRO:O	12:AL:32:PHE:CD2	2.74	0.41
13:AM:15:VAL:CG1	13:AM:44:ARG:O	2.69	0.41
14:AN:24:CYS:HG	14:AN:40:CYS:HG	1.51	0.41
15:AO:26:GLU:OE1	15:AO:81:LEU:HD22	2.21	0.41
19:AS:62:ILE:HA	19:AS:66:MET:HE2	2.01	0.41
20:AT:74:LYS:C	20:AT:76:ALA:N	2.74	0.41
24:AY:10:VAL:HB	24:AY:11:ALA:H	1.75	0.41
24:AY:158:VAL:HG12	24:AY:162:LEU:CB	2.50	0.41
24:AY:190:THR:HG22	24:AY:192:LEU:HD13	2.02	0.41
24:AY:193:TYR:HB2	24:AY:263:PHE:CB	2.51	0.41
24:AY:216:ASP:O	24:AY:220:GLY:C	2.59	0.41
24:AY:282:ARG:CG	24:AY:319:ARG:NH1	2.83	0.41
25:B0:14:ARG:HH11	25:B0:14:ARG:HG3	1.86	0.41
25:B0:20:ARG:HH11	25:B0:20:ARG:CG	2.33	0.41
26:B1:73:LEU:O	26:B1:77:ALA:HB2	2.20	0.41
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.20	0.41
29:B4:25:TYR:O	29:B4:26:SER:CB	2.69	0.41
29:B4:37:SER:O	29:B4:38:LYS:CB	2.67	0.41
31:B6:36:LEU:C	31:B6:36:LEU:CD2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B8:3:LYS:NZ	35:BA:241:A:O2'	2.54	0.41
35:BA:1002:G:C2'	35:BA:1003:G:O5'	2.69	0.41
35:BA:1034:G:C2	35:BA:1122:G:C2	3.08	0.41
35:BA:1152:C:C5	35:BA:1153:C:H5	2.38	0.41
35:BA:1173:G:H3'	35:BA:1174:A:H5'	2.03	0.41
35:BA:1214:A:O5'	35:BA:1214:A:H8	2.04	0.41
35:BA:1224:C:C4	35:BA:1225:G:C6	3.09	0.41
35:BA:1445:A:O2'	35:BA:1445(A):C:H5'	2.21	0.41
35:BA:1479:G:C2	35:BA:1480:G:C4	3.09	0.41
35:BA:1438:U:C4	35:BA:1552:G:N2	2.88	0.41
35:BA:1631(A):A:H2'	35:BA:1632:A:C8	2.55	0.41
35:BA:1669:A:C6	35:BA:1994:C:O2	2.74	0.41
35:BA:1696:G:O2'	35:BA:1697:G:H5'	2.20	0.41
35:BA:1837:C:H2'	35:BA:1838:C:H5''	2.02	0.41
35:BA:1923:U:H2'	35:BA:1924:C:OP2	2.21	0.41
35:BA:2000:G:O2'	35:BA:2001:A:H5'	2.21	0.41
35:BA:911:A:O4'	35:BA:2264:C:H4'	2.20	0.41
35:BA:2307:G:H5'	35:BA:2308:G:OP2	2.20	0.41
35:BA:2478:A:H8	35:BA:2478:A:O5'	2.04	0.41
35:BA:2504:U:H3'	35:BA:2504:U:C6	2.56	0.41
35:BA:27:G:HO2'	35:BA:28:A:P	2.44	0.41
35:BA:2830:G:O2'	35:BA:2831:G:H5'	2.20	0.41
35:BA:552:G:N3	35:BA:552:G:H2'	2.35	0.41
35:BA:743:G:O3'	39:BE:132:HIS:CB	2.68	0.41
35:BA:833:U:C5	35:BA:834:C:C5	3.08	0.41
35:BA:966:G:C1'	35:BA:2267:A:N6	2.83	0.41
36:BB:68:C:N1	36:BB:69:G:C8	2.89	0.41
37:BC:30:LYS:HZ3	37:BC:178:ALA:HB1	1.84	0.41
38:BD:92:ILE:HA	38:BD:106:ILE:HA	2.02	0.41
38:BD:144:ALA:H	38:BD:156:ALA:CB	2.34	0.41
45:BN:116:LEU:O	45:BN:119:ARG:HB2	2.20	0.41
45:BN:97:ARG:C	45:BN:99:LEU:N	2.74	0.41
47:BP:96:THR:HG22	47:BP:126:VAL:CG2	2.50	0.41
47:BP:21:ARG:O	47:BP:22:GLY:C	2.59	0.41
47:BP:31:ALA:C	47:BP:33:ARG:H	2.21	0.41
48:BQ:45:GLN:H	48:BQ:45:GLN:NE2	2.17	0.41
48:BQ:8:LYS:O	48:BQ:9:TYR:CG	2.74	0.41
49:BR:93:GLY:C	49:BR:94:TYR:CD1	2.82	0.41
52:BU:9:VAL:O	52:BU:13:LYS:CE	2.64	0.41
53:BV:35:LEU:O	53:BV:37:VAL:O	2.38	0.41
53:BV:78:LYS:O	53:BV:79:VAL:CG2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BW:21:VAL:C	54:BW:23:LEU:N	2.71	0.41
54:BW:73:ALA:O	54:BW:74:ALA:HB2	2.21	0.41
57:BZ:145:GLU:HG3	57:BZ:146:ILE:N	2.36	0.41
57:BZ:147:GLY:O	57:BZ:148:ASP:O	2.39	0.41
57:BZ:151:HIS:HA	57:BZ:171:ILE:HD13	2.02	0.41
57:BZ:34:ASN:O	57:BZ:35:ARG:NE	2.54	0.41
57:BZ:47:VAL:O	57:BZ:50:GLN:HB2	2.21	0.41
1:AA:1114:C:H2'	1:AA:1115:C:H6	1.86	0.41
1:AA:1179:A:N6	1:AA:1180:A:C2	2.88	0.41
1:AA:1054:C:OP1	1:AA:1198:G:OP2	2.39	0.41
1:AA:1284:C:P	1:AA:1285:A:H3'	2.61	0.41
1:AA:1314:C:C2'	1:AA:1315:U:O4'	2.69	0.41
1:AA:1349:A:N1	1:AA:1374:A:C8	2.88	0.41
1:AA:1414:U:HO2'	1:AA:1415:G:H8	1.67	0.41
1:AA:1425:U:H2'	1:AA:1426:C:C5	2.55	0.41
1:AA:1441:G:O2'	1:AA:1460:A:N6	2.50	0.41
1:AA:1456:G:H3'	1:AA:1456:G:N3	2.36	0.41
1:AA:142:G:N3	1:AA:196:A:H2	2.18	0.41
1:AA:520:A:N6	1:AA:521:G:N3	2.67	0.41
1:AA:525:C:C2	1:AA:526:C:C5	3.09	0.41
1:AA:571:U:H5''	1:AA:819:A:C5	2.55	0.41
1:AA:671:G:N1	1:AA:672:U:C2	2.89	0.41
1:AA:792:A:C2	1:AA:794:A:C4	3.09	0.41
1:AA:826:C:N3	1:AA:827:U:C5	2.88	0.41
1:AA:949:A:H2'	1:AA:950:U:C5'	2.40	0.41
1:AA:949:A:C5	1:AA:950:U:C4	3.08	0.41
1:AA:961:U:OP2	1:AA:1223:C:H1'	2.21	0.41
2:AB:9:GLU:HA	2:AB:12:GLU:HG3	2.02	0.41
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	2.03	0.41
4:AD:91:SER:O	4:AD:94:LEU:N	2.52	0.41
6:AF:11:ASN:HB2	6:AF:86:ARG:NH2	2.36	0.41
6:AF:83:ASP:C	6:AF:85:VAL:N	2.70	0.41
7:AG:106:GLN:O	7:AG:107:ALA:C	2.59	0.41
7:AG:126:ASP:HB3	7:AG:131:LYS:HG3	2.01	0.41
7:AG:99:LEU:O	7:AG:102:ARG:HB3	2.21	0.41
8:AH:25:ASP:OD2	8:AH:60:ARG:NE	2.54	0.41
8:AH:26:VAL:CG2	8:AH:32:LYS:HD3	2.50	0.41
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.05	0.41
9:AI:98:PRO:HB2	9:AI:99:LEU:CD2	2.47	0.41
12:AL:124:LYS:O	12:AL:124:LYS:HG3	2.20	0.41
17:AQ:58:GLU:O	17:AQ:59:ILE:CG1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:62:ILE:HD12	19:AS:66:MET:HE2	2.02	0.41
1:AA:195:A:P	20:AT:68:LYS:NZ	2.94	0.41
22:AV:49:G:N2	22:AV:50:U:N1	2.68	0.41
24:AY:106:VAL:HG22	24:AY:108:CYS:N	2.30	0.41
24:AY:10:VAL:C	24:AY:279:PRO:HG3	2.41	0.41
25:B0:42:GLY:O	25:B0:57:PHE:CG	2.74	0.41
27:B2:7:ARG:O	27:B2:11:GLU:HG3	2.21	0.41
27:B2:17:SER:O	27:B2:21:LEU:HG	2.20	0.41
27:B2:59:ARG:O	27:B2:62:THR:HB	2.20	0.41
30:B5:51:TYR:CD2	30:B5:52:TYR:CE1	3.08	0.41
32:B7:31:LEU:HD22	32:B7:42:LEU:HB3	2.03	0.41
32:B7:16:HIS:O	32:B7:43:THR:HG23	2.20	0.41
33:B8:44:LYS:N	33:B8:44:LYS:HD2	2.36	0.41
34:B9:1:MET:HG2	34:B9:31:LYS:O	2.21	0.41
35:BA:1288:U:P	35:BA:1289:C:H41	2.44	0.41
35:BA:1428:C:O2'	35:BA:1569:A:OP1	2.38	0.41
35:BA:1746:G:N2	35:BA:1747:G:C4	2.88	0.41
35:BA:1754:C:H6	35:BA:1754:C:O5'	2.04	0.41
35:BA:1807:G:O2'	35:BA:1809:A:N7	2.47	0.41
35:BA:1855:G:C6	35:BA:1888:G:C8	3.09	0.41
35:BA:1893:C:H6	35:BA:1893:C:H5'	1.86	0.41
35:BA:18:C:O2'	52:BU:23:GLY:HA2	2.21	0.41
35:BA:1969:A:O2'	35:BA:1972:A:C1'	2.65	0.41
35:BA:1972:A:N3	35:BA:1973:G:C8	2.89	0.41
35:BA:2070:G:C2	35:BA:2071:A:N3	2.89	0.41
35:BA:2193:G:H2'	35:BA:2194:G:O4'	2.21	0.41
35:BA:2289:G:H1'	35:BA:2346:A:H2	1.86	0.41
35:BA:2353:G:H1	35:BA:2364:C:H42	1.69	0.41
35:BA:2447:G:C4	35:BA:2500:U:C5	3.09	0.41
35:BA:2699:C:H2'	35:BA:2700:C:O4'	2.21	0.41
35:BA:309:G:N7	35:BA:330:A:N6	2.69	0.41
35:BA:109:G:H5'	35:BA:348:G:H4'	2.02	0.41
35:BA:37:C:H2'	35:BA:38:A:C8	2.55	0.41
35:BA:498:G:H2'	35:BA:499:U:C6	2.50	0.41
35:BA:541:C:H2'	35:BA:542:C:C6	2.56	0.41
35:BA:671:C:H2'	35:BA:672:C:H6	1.86	0.41
35:BA:704:G:C2	35:BA:726:G:C4	3.09	0.41
35:BA:95:G:C2'	35:BA:96:G:O5'	2.69	0.41
35:BA:996:A:C4'	52:BU:92:ARG:HH21	2.34	0.41
38:BD:121:PRO:O	38:BD:123:ALA:N	2.45	0.41
38:BD:173:VAL:HG22	38:BD:173:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:218:ARG:HG3	38:BD:218:ARG:NH1	2.36	0.41
38:BD:21:PHE:HD1	38:BD:91:ARG:NH2	2.16	0.41
35:BA:779:U:OP1	38:BD:49:ILE:HG13	2.20	0.41
38:BD:60:ARG:HH21	38:BD:87:ASN:HA	1.76	0.41
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.50	0.41
40:BF:169:ASN:HA	40:BF:169:ASN:HD22	1.65	0.41
41:BG:16:ARG:HD3	41:BG:16:ARG:HA	1.83	0.41
47:BP:146:VAL:CG1	47:BP:147:LEU:H	2.33	0.41
47:BP:59:LEU:HA	47:BP:61:ARG:HE	1.74	0.41
49:BR:48:VAL:CB	49:BR:51:LEU:HD22	2.50	0.41
52:BU:60:LEU:HA	52:BU:60:LEU:HD23	1.73	0.41
57:BZ:144:LEU:HD13	57:BZ:144:LEU:HA	1.76	0.41
57:BZ:150:LEU:O	57:BZ:171:ILE:CG1	2.65	0.41
57:BZ:70:LEU:HD23	57:BZ:70:LEU:N	2.36	0.41
57:BZ:8:TYR:N	57:BZ:8:TYR:CD1	2.89	0.41
57:BZ:98:MET:HG3	57:BZ:99:TYR:N	2.33	0.41
1:AA:1014:A:C2	19:AS:34:TRP:CZ2	3.09	0.41
1:AA:1134:G:C5	1:AA:1135:U:O2	2.74	0.41
1:AA:1219:U:C2	1:AA:1220:G:C8	3.09	0.41
1:AA:1238:A:C2	1:AA:1241:G:H1'	2.56	0.41
1:AA:1406:U:C5	1:AA:1407:C:C6	3.09	0.41
1:AA:1446:U:O2'	1:AA:1447:A:H3'	2.21	0.41
1:AA:1485:U:O5'	1:AA:1485:U:H6	2.03	0.41
1:AA:151:A:O2'	1:AA:152:A:H5'	2.20	0.41
1:AA:355:C:H2'	1:AA:356:A:C8	2.55	0.41
1:AA:543:C:H5'	4:AD:14:ARG:CZ	2.51	0.41
1:AA:642:A:HO2'	8:AH:31:PHE:HE1	1.68	0.41
1:AA:668:G:O2'	1:AA:669:U:H5'	2.21	0.41
1:AA:689:C:H4'	1:AA:705:U:H1'	2.03	0.41
1:AA:899:C:C6	1:AA:899:C:OP1	2.74	0.41
1:AA:939:G:OP1	7:AG:102:ARG:NH1	2.50	0.41
1:AA:979:C:C3'	1:AA:980:C:C5'	2.74	0.41
2:AB:104:ASN:O	2:AB:108:ILE:HG12	2.21	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:HA	2.03	0.41
2:AB:178:ARG:C	2:AB:180:LEU:N	2.74	0.41
2:AB:212:GLN:OE1	2:AB:212:GLN:C	2.59	0.41
2:AB:69:LEU:HA	2:AB:69:LEU:HD22	1.84	0.41
2:AB:8:LYS:C	2:AB:10:LEU:N	2.67	0.41
3:AC:28:GLN:NE2	3:AC:28:GLN:HA	2.35	0.41
4:AD:173:TRP:CD1	4:AD:189:PRO:HD3	2.56	0.41
4:AD:61:LYS:HE2	4:AD:61:LYS:HB3	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:29:LYS:NZ	7:AG:102:ARG:HG3	2.36	0.41
7:AG:108:ALA:H	7:AG:123:GLU:HG2	1.86	0.41
8:AH:87:SER:OG	8:AH:92:ARG:CA	2.62	0.41
9:AI:81:ILE:O	9:AI:84:ALA:HB3	2.21	0.41
10:AJ:8:LEU:HB3	10:AJ:16:LEU:HD21	2.02	0.41
11:AK:60:ALA:O	11:AK:61:ALA:C	2.58	0.41
12:AL:104:VAL:O	12:AL:107:ALA:HB3	2.21	0.41
13:AM:23:TYR:C	13:AM:23:TYR:CD1	2.94	0.41
14:AN:12:ARG:HH11	14:AN:14:PRO:CG	2.26	0.41
1:AA:835:U:C5'	18:AR:64:ARG:HH22	2.34	0.41
19:AS:45:VAL:O	19:AS:45:VAL:CG2	2.69	0.41
20:AT:36:LEU:HA	20:AT:39:LYS:HB2	2.03	0.41
1:AA:195:A:P	20:AT:68:LYS:HZ3	2.43	0.41
22:AV:71:C:H2'	22:AV:72:A:C8	2.56	0.41
24:AY:138:LEU:HD11	24:AY:272:LEU:CB	2.38	0.41
24:AY:21:HIS:HD2	24:AY:122:ARG:CA	2.34	0.41
24:AY:416:LEU:HD23	24:AY:416:LEU:HA	1.78	0.41
24:AY:480:LYS:CA	24:AY:480:LYS:HE2	2.51	0.41
24:AY:93:GLU:C	24:AY:94:ASP:CG	2.76	0.41
24:AY:96:SER:O	24:AY:100:TYR:N	2.45	0.41
26:B1:34:THR:O	35:BA:2432:A:N6	2.51	0.41
26:B1:40:ARG:HG3	26:B1:41:ARG:N	2.35	0.41
28:B3:15:TYR:HA	28:B3:16:PRO:HD3	1.87	0.41
30:B5:20:ARG:O	30:B5:23:HIS:HB2	2.21	0.41
35:BA:1477:A:N6	35:BA:1478:G:C6	2.89	0.41
35:BA:1553:A:C2	35:BA:1555:G:C8	3.09	0.41
35:BA:1667:G:N2	35:BA:1991:U:C5	2.89	0.41
35:BA:2157:G:O2'	35:BA:2158:A:C5'	2.66	0.41
35:BA:2234:G:C6	35:BA:2235:G:N7	2.89	0.41
35:BA:2598:A:N7	35:BA:2599:G:C1'	2.81	0.41
35:BA:2641:G:C8	35:BA:2641:G:H5'	2.45	0.41
35:BA:28:A:H62	35:BA:512:G:H1'	1.85	0.41
35:BA:783:A:N6	35:BA:785:G:C5	2.89	0.41
35:BA:813:U:N3	35:BA:814:C:N4	2.69	0.41
35:BA:878:A:H5'	35:BA:878:A:N3	2.35	0.41
35:BA:941:A:C2	35:BA:942:G:C4	3.09	0.41
36:BB:5:C:O2'	36:BB:6:C:H5'	2.20	0.41
36:BB:8:U:H5'	36:BB:8:U:C6	2.56	0.41
36:BB:81:G:N1	36:BB:97:G:C2	2.89	0.41
37:BC:120:MET:HA	37:BC:123:VAL:HG12	2.02	0.41
37:BC:191:ALA:O	37:BC:194:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:169:GLU:OE1	38:BD:184:LYS:CE	2.69	0.41
38:BD:18:VAL:O	38:BD:19:ALA:O	2.39	0.41
38:BD:208:LYS:HE3	38:BD:210:GLY:HA3	2.02	0.41
38:BD:181:GLU:CG	38:BD:272:ALA:CB	2.90	0.41
39:BE:38:THR:CG2	39:BE:39:PRO:HD2	2.51	0.41
39:BE:57:LYS:HA	39:BE:57:LYS:HE3	2.02	0.41
41:BG:10:LYS:HE2	41:BG:14:GLU:OE2	2.21	0.41
41:BG:135:LEU:CD2	41:BG:155:MET:HG3	2.51	0.41
41:BG:170:ARG:O	41:BG:174:GLU:HB2	2.21	0.41
41:BG:16:ARG:CZ	41:BG:28:VAL:HG13	2.50	0.41
41:BG:67:LYS:CD	41:BG:67:LYS:N	2.84	0.41
42:BH:154:PRO:HG3	42:BH:163:TYR:HD1	1.86	0.41
42:BH:18:GLU:HB3	42:BH:25:LYS:HG3	2.01	0.41
46:BO:11:ALA:HB1	46:BO:98:VAL:HG23	2.03	0.41
46:BO:12:ASP:OD2	46:BO:85:VAL:CG1	2.69	0.41
46:BO:71:ARG:HH21	46:BO:77:ILE:HG21	1.86	0.41
47:BP:96:THR:O	47:BP:100:LEU:HD23	2.20	0.41
51:BT:31:SER:O	51:BT:32:TYR:O	2.39	0.41
51:BT:79:HIS:O	51:BT:80:SER:HB3	2.21	0.41
51:BT:93:ARG:HG2	51:BT:117:ASP:CB	2.45	0.41
52:BU:97:ASP:O	52:BU:100:VAL:HG23	2.21	0.41
52:BU:15:LYS:HG3	52:BU:16:LYS:N	2.35	0.41
52:BU:27:LEU:HA	52:BU:30:LYS:HG2	2.01	0.41
52:BU:92:ARG:CB	53:BV:11:GLN:CD	2.82	0.41
53:BV:47:VAL:O	53:BV:49:THR:O	2.39	0.41
54:BW:3:ALA:HB3	54:BW:107:LEU:HD12	2.02	0.41
56:BY:13:VAL:HG22	56:BY:14:LEU:H	1.86	0.41
56:BY:7:VAL:HG12	56:BY:83:THR:HG21	2.03	0.41
57:BZ:100:VAL:HA	57:BZ:101:PRO:HD2	1.72	0.41
57:BZ:69:THR:C	57:BZ:70:LEU:CD2	2.89	0.41
57:BZ:53:ILE:HG22	57:BZ:71:VAL:HG23	2.03	0.41
1:AA:1004:A:C5	1:AA:1037:C:N4	2.88	0.41
1:AA:1145:C:O2'	1:AA:1146:A:C5'	2.69	0.41
1:AA:979:C:OP1	1:AA:1222:G:O6	2.38	0.41
1:AA:30:U:C1'	1:AA:31:G:OP1	2.69	0.41
1:AA:460:G:N2	1:AA:473:G:O6	2.54	0.41
1:AA:529:G:H2'	1:AA:530:G:H5'	2.01	0.41
1:AA:586:C:O2'	1:AA:587:G:H5'	2.20	0.41
1:AA:753:A:C4'	1:AA:754:C:C2	3.03	0.41
1:AA:803:G:H2'	1:AA:804:U:C6	2.56	0.41
1:AA:885:G:H1	1:AA:912:C:H42	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:908:A:C2	1:AA:909:A:C5	3.09	0.41
1:AA:962:C:H2'	1:AA:963:G:H8	1.85	0.41
2:AB:236:TYR:HB3	2:AB:239:VAL:HG23	2.02	0.41
2:AB:44:LEU:O	2:AB:47:THR:N	2.54	0.41
2:AB:69:LEU:HB2	2:AB:159:PRO:HG2	2.03	0.41
2:AB:7:VAL:O	2:AB:7:VAL:HG12	2.21	0.41
3:AC:137:ALA:O	3:AC:139:GLN:N	2.54	0.41
3:AC:21:ARG:C	3:AC:22:TRP:CG	2.95	0.41
3:AC:25:GLY:O	3:AC:26:LYS:C	2.59	0.41
3:AC:42:LEU:O	3:AC:45:LYS:HB3	2.21	0.41
3:AC:82:GLU:O	3:AC:83:ARG:C	2.58	0.41
4:AD:15:GLU:OE1	4:AD:59:ARG:NH2	2.54	0.41
5:AE:126:ARG:O	5:AE:128:PRO:HD3	2.21	0.41
9:AI:104:ARG:NH1	9:AI:104:ARG:CG	2.76	0.41
11:AK:16:SER:O	11:AK:35:PRO:HG3	2.21	0.41
13:AM:79:LYS:O	13:AM:82:MET:HB3	2.21	0.41
13:AM:98:VAL:HG12	13:AM:98:VAL:O	2.21	0.41
15:AO:26:GLU:HB2	15:AO:27:VAL:H	1.59	0.41
18:AR:37:VAL:O	18:AR:38:GLU:C	2.59	0.41
20:AT:74:LYS:HG2	20:AT:75:ASN:N	2.36	0.41
24:AY:15:THR:CG2	24:AY:106:VAL:HA	2.51	0.41
24:AY:223:LEU:HA	24:AY:226:GLN:CB	2.51	0.41
24:AY:486:LYS:HA	24:AY:493:LEU:HD12	2.01	0.41
24:AY:421:GLU:CA	24:AY:529:HIS:HE1	2.31	0.41
31:B6:26:ASN:HB3	31:B6:27:LYS:H	1.40	0.41
32:B7:5:TRP:CZ3	35:BA:464:U:O4'	2.74	0.41
34:B9:32:HIS:O	34:B9:34:GLN:N	2.54	0.41
35:BA:1370:C:C5	35:BA:1371:G:C5	3.09	0.41
35:BA:1410:G:C6	35:BA:1411:C:C4	3.09	0.41
35:BA:1667:G:N3	35:BA:1991:U:C5	2.88	0.41
35:BA:1816:G:H8	38:BD:62:TYR:CE2	2.39	0.41
30:B5:6:VAL:CG2	35:BA:2015:A:C2	3.00	0.41
35:BA:2028:U:O4	35:BA:2033:A:OP2	2.37	0.41
35:BA:2101:G:N1	35:BA:2102:U:C4	2.89	0.41
35:BA:2163:C:H2'	35:BA:2164:C:H5'	2.03	0.41
35:BA:2283:C:C4	35:BA:2389:G:C5	3.09	0.41
35:BA:2286:A:C2	35:BA:2346:A:N6	2.89	0.41
35:BA:2422:A:C6	35:BA:2424:C:C4	3.09	0.41
35:BA:245:G:C2'	35:BA:246:C:H5'	2.51	0.41
35:BA:2526:G:H2'	35:BA:2527:C:O4'	2.21	0.41
35:BA:2819:G:C6	35:BA:2821:A:C2	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2845:G:N1	35:BA:2846:G:C6	2.89	0.41
35:BA:284:U:H6	35:BA:284:U:O5'	2.04	0.41
35:BA:496:G:H1'	54:BW:61:ASN:HD21	1.86	0.41
35:BA:572:A:O5'	35:BA:572:A:H8	2.04	0.41
35:BA:60:G:C8	35:BA:63:U:C5	3.10	0.41
35:BA:840:C:H2'	35:BA:841:A:H8	1.85	0.41
36:BB:18:G:N2	36:BB:68:C:N4	2.69	0.41
37:BC:212:VAL:HG12	37:BC:224:ILE:HD11	2.03	0.41
38:BD:149:PRO:O	38:BD:151:LYS:HD2	2.21	0.41
35:BA:1827:C:O5'	38:BD:222:ARG:NH1	2.54	0.41
38:BD:224:ALA:CA	38:BD:233:HIS:HB2	2.48	0.41
38:BD:62:TYR:CE1	38:BD:64:ILE:CA	3.00	0.41
39:BE:195:LEU:O	39:BE:196:VAL:CG1	2.68	0.41
40:BF:133:ASN:N	40:BF:133:ASN:HD22	2.19	0.41
40:BF:192:LEU:HD21	40:BF:194:MET:CE	2.51	0.41
41:BG:113:ARG:O	41:BG:140:ILE:HG22	2.21	0.41
45:BN:57:ALA:O	45:BN:58:ASP:C	2.57	0.41
47:BP:55:ARG:C	47:BP:57:THR:N	2.73	0.41
35:BA:2413:G:N2	47:BP:70:GLN:HE22	2.06	0.41
47:BP:96:THR:O	47:BP:99:LEU:CB	2.69	0.41
48:BQ:125:LEU:HA	48:BQ:126:PRO:HD3	1.95	0.41
48:BQ:43:THR:OG1	48:BQ:46:GLN:NE2	2.54	0.41
48:BQ:51:ARG:HG2	48:BQ:52:VAL:N	2.35	0.41
50:BS:25:ARG:HH12	50:BS:40:ILE:HD11	1.86	0.41
50:BS:66:ALA:O	50:BS:70:GLY:N	2.53	0.41
51:BT:50:ILE:HD11	51:BT:64:ARG:HB2	2.03	0.41
51:BT:75:ILE:N	51:BT:75:ILE:HD12	2.36	0.41
52:BU:68:ALA:CB	52:BU:106:PHE:HE2	2.33	0.41
53:BV:12:TYR:N	53:BV:12:TYR:CD1	2.88	0.41
55:BX:26:TYR:O	55:BX:81:VAL:HG22	2.20	0.41
55:BX:61:GLY:O	55:BX:62:LYS:O	2.39	0.41
56:BY:25:GLY:HA3	56:BY:39:VAL:HG13	2.02	0.41
56:BY:3:VAL:CG1	56:BY:3:VAL:O	2.69	0.41
57:BZ:141:VAL:O	57:BZ:143:GLY:N	2.44	0.41
57:BZ:155:LEU:N	57:BZ:155:LEU:CD2	2.83	0.41
57:BZ:5:LEU:HD23	57:BZ:5:LEU:HA	1.80	0.41
1:AA:1150:U:O4	1:AA:1151:A:N6	2.54	0.40
1:AA:1153:C:O2'	1:AA:1154:G:OP2	2.37	0.40
1:AA:1423:G:C6	1:AA:1424:C:C4	3.09	0.40
1:AA:1486:G:C6	1:AA:1487:G:C6	3.09	0.40
1:AA:286:G:C6	1:AA:287:U:C4	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:371:G:H2'	1:AA:372:C:O4'	2.21	0.40
1:AA:367:U:C2	1:AA:394:G:C2	3.09	0.40
1:AA:405:U:C5'	1:AA:495:A:H2	2.34	0.40
1:AA:537:G:H2'	1:AA:538:G:H8	1.85	0.40
1:AA:635:G:C2'	1:AA:636:U:H5'	2.51	0.40
1:AA:651:C:O2'	1:AA:652:U:H5'	2.21	0.40
1:AA:761:G:H2'	1:AA:762:C:H6	1.87	0.40
1:AA:817:C:C4	1:AA:819:A:N9	2.90	0.40
1:AA:961:U:H5'	1:AA:984:C:O2	2.21	0.40
2:AB:100:GLY:HA3	2:AB:104:ASN:HB3	2.02	0.40
2:AB:137:ARG:HB3	2:AB:138:LEU:CD2	2.50	0.40
2:AB:25:ASN:ND2	2:AB:193:ASP:HB2	2.37	0.40
2:AB:23:ARG:HA	2:AB:23:ARG:HD2	1.93	0.40
3:AC:73:PRO:O	3:AC:77:ILE:HG13	2.21	0.40
4:AD:15:GLU:HA	4:AD:15:GLU:OE1	2.21	0.40
4:AD:184:LYS:O	4:AD:186:LEU:HG	2.22	0.40
4:AD:64:LEU:HD13	4:AD:198:VAL:HG11	2.03	0.40
5:AE:11:ILE:H	5:AE:11:ILE:HG13	1.27	0.40
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	2.03	0.40
8:AH:38:ILE:O	8:AH:42:GLU:N	2.46	0.40
9:AI:16:ARG:NH1	9:AI:16:ARG:HG3	2.34	0.40
10:AJ:81:THR:O	10:AJ:83:GLU:N	2.54	0.40
1:AA:741:G:H5'	15:AO:39:LEU:HD21	2.01	0.40
19:AS:38:SER:C	19:AS:70:LYS:HB3	2.42	0.40
22:AV:26:G:N2	22:AV:44:A:N6	2.55	0.40
24:AY:30:THR:HG21	24:AY:88:ASP:CB	2.49	0.40
24:AY:326:GLU:HA	24:AY:326:GLU:OE1	2.21	0.40
12:AL:36:VAL:CG1	24:AY:406:PRO:CB	2.85	0.40
24:AY:486:LYS:HE2	24:AY:486:LYS:HB3	1.88	0.40
24:AY:503:TYR:CE1	24:AY:514:ALA:HB2	2.56	0.40
35:BA:1166:C:H6	35:BA:1166:C:O5'	2.04	0.40
35:BA:1246:A:N6	35:BA:1247:A:N6	2.68	0.40
35:BA:1247:A:O2'	35:BA:1248:G:O5'	2.36	0.40
35:BA:1273:U:HO2'	35:BA:1274:A:H5''	1.79	0.40
35:BA:1435:G:H1	35:BA:1557:C:H42	1.69	0.40
35:BA:1451:C:H4'	35:BA:1452:A:H5'	2.03	0.40
35:BA:1498:C:C3'	35:BA:1499:C:H5'	2.52	0.40
35:BA:1518:U:O5'	35:BA:1518:U:H6	2.03	0.40
35:BA:1578:U:C2'	35:BA:1579:A:C5'	2.87	0.40
35:BA:1654:A:OP1	49:BR:2:ARG:C	2.59	0.40
35:BA:1654:A:OP1	49:BR:3:HIS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1667:G:OP1	46:BO:6:THR:CA	2.66	0.40
35:BA:1718:G:O2'	35:BA:1719:G:H5'	2.20	0.40
35:BA:1805:U:O2	38:BD:50:THR:CB	2.64	0.40
35:BA:1803:A:N6	35:BA:1814:G:O2'	2.54	0.40
35:BA:1986:A:C2	35:BA:1987:G:C8	3.09	0.40
35:BA:2134:A:C1'	35:BA:2159:G:H21	2.34	0.40
35:BA:221:A:N7	35:BA:266:G:O6	2.55	0.40
35:BA:2320:A:N1	35:BA:2333:A:C4	2.89	0.40
35:BA:2524:G:C8	35:BA:2524:G:H5'	2.52	0.40
35:BA:2532:G:C2'	35:BA:2533:A:H5'	2.51	0.40
35:BA:2553:G:H3'	35:BA:2554:U:C5'	2.45	0.40
35:BA:2587:A:H8	35:BA:2587:A:O5'	2.03	0.40
35:BA:2786:U:C2'	35:BA:2787:C:H6	2.19	0.40
35:BA:2873:A:O4'	49:BR:8:ARG:NH2	2.54	0.40
35:BA:50:U:H5''	35:BA:51:G:C8	2.56	0.40
35:BA:555:U:O2	35:BA:556:G:N7	2.53	0.40
35:BA:693:C:H2'	35:BA:693:C:O2	2.21	0.40
35:BA:727:A:C6	35:BA:728:G:N1	2.89	0.40
35:BA:839:U:C2	35:BA:840:C:C5	3.09	0.40
35:BA:907:U:C2	35:BA:908:C:C5	3.09	0.40
35:BA:931:G:N2	35:BA:933:A:C8	2.89	0.40
35:BA:942:G:H5''	47:BP:36:LYS:H	1.86	0.40
35:BA:993:G:C1'	53:BV:87:HIS:NE2	2.84	0.40
37:BC:7:TYR:HA	37:BC:10:LEU:CD2	2.51	0.40
38:BD:144:ALA:HA	38:BD:155:LEU:O	2.21	0.40
39:BE:68:ALA:C	39:BE:70:ALA:N	2.71	0.40
39:BE:79:ARG:HB3	39:BE:80:GLU:H	1.56	0.40
39:BE:4:ILE:HD12	39:BE:92:THR:O	2.21	0.40
40:BF:124:LEU:HD12	40:BF:125:LEU:H	1.86	0.40
40:BF:139:PHE:O	40:BF:142:TRP:N	2.54	0.40
40:BF:64:ILE:CG2	40:BF:65:TRP:H	2.34	0.40
41:BG:111:LEU:O	41:BG:114:ILE:HG22	2.20	0.40
41:BG:44:GLY:O	41:BG:47:LYS:CE	2.65	0.40
44:BK:5:UNK:C	44:BK:7:UNK:N	2.84	0.40
45:BN:137:LYS:HB3	45:BN:138:LEU:H	1.64	0.40
47:BP:114:ILE:N	47:BP:129:ALA:O	2.49	0.40
48:BQ:45:GLN:O	48:BQ:49:ALA:HB2	2.21	0.40
49:BR:45:ARG:C	49:BR:47:PHE:H	2.24	0.40
50:BS:78:LEU:O	50:BS:79:ALA:HB2	2.21	0.40
51:BT:118:ARG:O	51:BT:122:ASP:HB2	2.21	0.40
51:BT:19:LEU:HD22	51:BT:85:LYS:HG3	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:22:PHE:CE2	51:BT:85:LYS:CE	3.02	0.40
52:BU:114:LYS:HG2	52:BU:114:LYS:H	1.70	0.40
52:BU:59:ARG:HA	52:BU:62:ILE:HB	2.03	0.40
56:BY:78:ALA:HB1	56:BY:81:LYS:HE3	2.01	0.40
56:BY:96:ILE:HG13	56:BY:99:CYS:CB	2.50	0.40
57:BZ:5:LEU:CD1	57:BZ:39:VAL:HG11	2.32	0.40
1:AA:1117:G:O3'	9:AI:104:ARG:HD2	2.21	0.40
1:AA:118:U:O4	1:AA:289:G:H4'	2.21	0.40
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.21	0.40
1:AA:1396:A:H4'	1:AA:1398:A:O4'	2.21	0.40
1:AA:199:G:O2'	1:AA:200:G:H5'	2.21	0.40
1:AA:243:A:C2	1:AA:246:A:N7	2.89	0.40
1:AA:411:A:N6	1:AA:413:G:N2	2.69	0.40
1:AA:620:C:N1	4:AD:135:LEU:HG	2.35	0.40
1:AA:799:G:O2'	1:AA:800:G:O4'	2.35	0.40
3:AC:53:ALA:C	3:AC:54:ARG:O	2.60	0.40
4:AD:95:GLY:O	4:AD:98:GLU:N	2.50	0.40
5:AE:123:LEU:O	5:AE:125:SER:O	2.40	0.40
5:AE:32:VAL:HG12	5:AE:33:VAL:N	2.36	0.40
5:AE:30:ALA:O	5:AE:45:PHE:HA	2.21	0.40
5:AE:7:GLU:HB3	5:AE:112:LEU:HD22	2.03	0.40
6:AF:2:ARG:HH11	6:AF:92:LYS:CE	2.34	0.40
1:AA:1297:C:H1'	7:AG:114:ARG:HH21	1.85	0.40
7:AG:120:ILE:O	7:AG:121:ALA:C	2.59	0.40
8:AH:104:ARG:NH2	8:AH:138:TRP:CH2	2.89	0.40
8:AH:104:ARG:CZ	8:AH:138:TRP:CZ2	3.04	0.40
8:AH:35:ILE:O	8:AH:37:ARG:N	2.54	0.40
9:AI:27:THR:N	9:AI:61:ALA:O	2.49	0.40
10:AJ:23:ILE:O	10:AJ:23:ILE:HG22	2.21	0.40
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.21	0.40
13:AM:102:ARG:CG	13:AM:102:ARG:HH11	2.33	0.40
13:AM:106:ASN:HB3	13:AM:107:ALA:H	1.51	0.40
16:AP:21:VAL:CG1	16:AP:34:GLU:O	2.67	0.40
17:AQ:77:VAL:O	17:AQ:78:GLU:CB	2.68	0.40
19:AS:27:GLU:HB3	19:AS:28:LYS:H	1.37	0.40
22:AV:49:G:O2'	22:AV:50:U:H5'	2.21	0.40
23:AX:13:A:N3	23:AX:13:A:H2'	2.36	0.40
23:AX:17:U:H2'	23:AX:18:G:O5'	2.21	0.40
24:AY:402:ARG:O	24:AY:462:VAL:N	2.52	0.40
12:AL:126:LYS:CB	24:AY:487:ARG:NH2	2.56	0.40
24:AY:505:ALA:C	24:AY:507:SER:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:60:PHE:CD1	25:B0:60:PHE:C	2.93	0.40
26:B1:11:ARG:CB	26:B1:12:PRO:HD2	2.18	0.40
28:B3:26:LEU:HD11	28:B3:47:VAL:HG22	2.01	0.40
31:B6:27:LYS:HG3	31:B6:30:THR:OG1	2.21	0.40
31:B6:26:ASN:ND2	31:B6:32:ASN:OD1	2.54	0.40
34:B9:23:VAL:HG23	34:B9:36:GLN:OE1	2.22	0.40
35:BA:110:G:C2'	35:BA:111:A:H5'	2.50	0.40
35:BA:1155:A:O5'	52:BU:55:ARG:NE	2.55	0.40
35:BA:1244:G:H2'	35:BA:1245:G:C8	2.55	0.40
35:BA:1289:C:H4'	35:BA:1330:C:C4'	2.52	0.40
35:BA:1479:G:H2'	35:BA:1480:G:H8	1.87	0.40
35:BA:1613:G:N1	35:BA:1617:C:O2'	2.33	0.40
35:BA:1649:G:C4	35:BA:1650:G:C8	3.10	0.40
35:BA:1654:A:H2'	35:BA:1655:A:H8	1.86	0.40
35:BA:1756:G:O5'	35:BA:1756:G:C8	2.74	0.40
35:BA:1799:G:OP1	38:BD:260:ARG:CB	2.69	0.40
35:BA:1835:G:H5''	35:BA:1836:C:OP2	2.21	0.40
35:BA:1858:G:H22	35:BA:1883:G:H2'	1.85	0.40
35:BA:1981:A:H5''	35:BA:1982:C:OP2	2.21	0.40
35:BA:2111:C:O2	35:BA:2111:C:C2'	2.70	0.40
35:BA:2162:G:C2	35:BA:2163:C:C5	3.09	0.40
35:BA:2222:G:H1'	38:BD:151:LYS:HZ2	1.86	0.40
35:BA:2320:A:C2	35:BA:2333:A:C8	3.09	0.40
35:BA:2435:A:C2'	35:BA:2436:G:O5'	2.69	0.40
35:BA:2450:A:C2'	35:BA:2451:A:H5'	2.51	0.40
35:BA:2562:U:H2'	35:BA:2563:U:C5'	2.47	0.40
35:BA:2603:G:C2	35:BA:2604:U:H1'	2.55	0.40
35:BA:2687:U:C5	35:BA:2688:U:C4	3.09	0.40
35:BA:2749:A:OP2	35:BA:2751:G:H5''	2.20	0.40
35:BA:2790:A:H2	35:BA:2791:C:H3'	1.86	0.40
35:BA:382:G:H2'	35:BA:383:U:C5'	2.50	0.40
35:BA:40:C:C4	35:BA:41:C:N4	2.88	0.40
35:BA:790:C:O2'	35:BA:791:C:OP1	2.29	0.40
35:BA:79:G:C6	35:BA:80:G:N7	2.90	0.40
35:BA:940:G:C3'	35:BA:941:A:H5''	2.51	0.40
36:BB:34:U:H5''	36:BB:35:U:OP1	2.21	0.40
36:BB:87:G:C2'	36:BB:88:C:H5''	2.50	0.40
37:BC:115:ALA:CB	37:BC:120:MET:CE	2.95	0.40
38:BD:193:VAL:H	38:BD:193:VAL:HG12	1.58	0.40
38:BD:209:ALA:O	38:BD:212:SER:N	2.55	0.40
38:BD:259:THR:O	38:BD:260:ARG:C	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:87:ASN:CB	38:BD:88:ARG:CZ	2.86	0.40
38:BD:97:TYR:O	38:BD:98:VAL:C	2.60	0.40
39:BE:21:VAL:C	39:BE:22:PRO:O	2.58	0.40
40:BF:103:LYS:O	40:BF:107:LYS:HG2	2.21	0.40
40:BF:33:LEU:CD1	40:BF:109:GLY:O	2.68	0.40
40:BF:155:LEU:HD12	40:BF:156:LEU:H	1.86	0.40
40:BF:205:ARG:HG2	40:BF:205:ARG:O	2.21	0.40
41:BG:7:LEU:HD11	41:BG:107:LEU:HD12	2.02	0.40
41:BG:51:ARG:HH12	41:BG:53:LEU:HD11	1.86	0.40
42:BH:65:HIS:CG	42:BH:66:GLY:N	2.89	0.40
45:BN:2:LYS:HZ1	52:BU:95:LEU:CD2	2.31	0.40
35:BA:942:G:C5'	47:BP:36:LYS:H	2.34	0.40
48:BQ:34:LEU:HD13	48:BQ:118:LEU:HB3	2.03	0.40
50:BS:58:LEU:HD23	50:BS:65:VAL:CG1	2.50	0.40
35:BA:29:U:C4'	52:BU:11:ARG:HH22	2.34	0.40
52:BU:40:PHE:C	52:BU:42:ALA:N	2.74	0.40
52:BU:92:ARG:O	52:BU:93:LYS:C	2.58	0.40
53:BV:61:VAL:HG23	53:BV:61:VAL:O	2.21	0.40
56:BY:10:GLY:C	56:BY:27:VAL:HG13	2.41	0.40
35:BA:329:G:N7	56:BY:71:LYS:HE3	2.36	0.40
57:BZ:17:ALA:O	57:BZ:18:LEU:C	2.59	0.40
57:BZ:48:PHE:HD1	57:BZ:48:PHE:HA	1.64	0.40
57:BZ:48:PHE:CZ	57:BZ:74:VAL:HG21	2.55	0.40
1:AA:1020:U:O2'	1:AA:1021:G:H5'	2.20	0.40
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.51	0.40
1:AA:1128:C:H41	1:AA:1139:G:H2'	1.86	0.40
1:AA:1148:U:O2'	1:AA:1149:C:H5'	2.21	0.40
1:AA:1149:C:C4	1:AA:1150:U:C4	3.10	0.40
1:AA:1197:G:OP1	1:AA:1198:G:OP2	2.39	0.40
1:AA:1204:A:C2	1:AA:1205:U:C2	3.09	0.40
1:AA:1205:U:H2'	1:AA:1205:U:O2	2.21	0.40
1:AA:1250:A:C2	1:AA:1370:G:H1'	2.57	0.40
1:AA:1407:C:N4	1:AA:1408:A:N6	2.69	0.40
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.22	0.40
1:AA:172:A:N7	1:AA:174:C:C5	2.89	0.40
1:AA:274:A:H4'	1:AA:275:G:OP1	2.20	0.40
1:AA:32:A:OP1	1:AA:398:C:C1'	2.64	0.40
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.57	0.40
1:AA:448:A:OP2	1:AA:485:G:N1	2.54	0.40
1:AA:688:G:H8	1:AA:688:G:H5''	1.86	0.40
1:AA:739:C:C2	1:AA:740:U:C6	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:587:G:N2	1:AA:755:G:C4	2.90	0.40
2:AB:139:LYS:O	2:AB:143:GLU:HG3	2.21	0.40
3:AC:50:ALA:HB2	3:AC:75:VAL:HB	2.04	0.40
4:AD:107:ARG:HH12	4:AD:114:ARG:HH22	1.67	0.40
5:AE:35:GLY:HA3	5:AE:40:ARG:O	2.22	0.40
5:AE:48:ALA:O	5:AE:49:PRO:C	2.58	0.40
10:AJ:4:ILE:CD1	10:AJ:4:ILE:N	2.84	0.40
11:AK:34:ASP:C	11:AK:34:ASP:OD1	2.59	0.40
12:AL:75:HIS:CD2	12:AL:77:LEU:N	2.88	0.40
13:AM:96:LEU:C	13:AM:110:ARG:HE	2.24	0.40
13:AM:3:ARG:O	13:AM:4:ILE:CG1	2.69	0.40
1:AA:1216:G:OP1	14:AN:2:ALA:HB3	2.21	0.40
1:AA:1357:A:O2'	14:AN:34:TYR:HE1	2.03	0.40
17:AQ:27:PHE:HA	17:AQ:28:PRO:HD3	1.81	0.40
19:AS:47:HIS:NE2	29:B4:47:GLN:CB	2.83	0.40
19:AS:49:ILE:O	19:AS:58:VAL:O	2.39	0.40
20:AT:73:HIS:CG	20:AT:74:LYS:HD3	2.56	0.40
1:AA:188:C:H4'	20:AT:89:ARG:NH1	2.36	0.40
22:AV:11:A:C2	22:AV:12:G:H1'	2.56	0.40
23:AX:14:A:H2'	23:AX:15:A:C4'	2.51	0.40
24:AY:16:PHE:CZ	24:AY:86:LEU:HB2	2.56	0.40
24:AY:403:LEU:HA	24:AY:461:ALA:HA	2.03	0.40
26:B1:62:VAL:HG22	26:B1:63:ALA:N	2.36	0.40
28:B3:35:ARG:HB2	28:B3:35:ARG:HH11	1.86	0.40
31:B6:32:ASN:O	31:B6:33:LYS:HB2	2.21	0.40
32:B7:47:ARG:HE	32:B7:47:ARG:HB2	1.71	0.40
33:B8:10:ALA:O	33:B8:13:ARG:CG	2.65	0.40
34:B9:10:ILE:HD12	34:B9:14:CYS:SG	2.61	0.40
34:B9:23:VAL:HG21	34:B9:36:GLN:HE22	1.87	0.40
35:BA:1075:C:N4	35:BA:1076:C:N4	2.68	0.40
35:BA:1091:G:H2'	35:BA:1092:C:C6	2.56	0.40
35:BA:122:G:C4	35:BA:123:G:C8	3.09	0.40
35:BA:1275:A:N6	49:BR:16:HIS:CA	2.78	0.40
35:BA:1485:G:N2	35:BA:1505:C:C6	2.82	0.40
35:BA:1676:A:C2'	35:BA:1677:A:C8	2.89	0.40
35:BA:1845:G:C4	35:BA:1846:G:C8	3.10	0.40
35:BA:1858:G:C6	35:BA:1883:G:C5	3.09	0.40
35:BA:2060:A:C2	35:BA:2502:G:C5	3.09	0.40
35:BA:2208:A:H1'	35:BA:2219:G:N7	2.33	0.40
35:BA:2245:U:C5'	35:BA:2246:G:H5'	2.52	0.40
35:BA:2301:C:C2	35:BA:2302:G:C8	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2323:G:C6	35:BA:2324:C:C4	3.09	0.40
35:BA:2325:G:C6	35:BA:2326:C:C4	3.09	0.40
35:BA:2359:C:C6	35:BA:2360:A:N7	2.89	0.40
35:BA:2360:A:O2'	35:BA:2361:A:C8	2.75	0.40
35:BA:2376:A:O2'	35:BA:2377:A:H5'	2.21	0.40
35:BA:239:U:C4	35:BA:240:G:C6	3.09	0.40
35:BA:2457:U:C2'	35:BA:2458:G:H5'	2.52	0.40
35:BA:2474:C:H5'	35:BA:2475:C:OP2	2.21	0.40
35:BA:2588:G:N7	35:BA:2589:A:N7	2.69	0.40
35:BA:2801(A):A:C3'	35:BA:2802:G:H5'	2.50	0.40
35:BA:302:C:N4	35:BA:303:U:O4	2.55	0.40
35:BA:480:A:OP2	56:BY:46:LYS:NZ	2.46	0.40
35:BA:712:G:C2'	35:BA:713:G:H5'	2.51	0.40
35:BA:722:A:H2'	35:BA:723:G:H8	1.86	0.40
32:B7:10:ARG:NE	35:BA:770:G:H5''	2.37	0.40
35:BA:835:A:N6	35:BA:836:G:C6	2.89	0.40
35:BA:916:G:HO2'	35:BA:917:A:H5''	1.83	0.40
35:BA:950:G:C4	35:BA:951:C:C6	3.09	0.40
36:BB:23:G:H2'	36:BB:24:G:C8	2.56	0.40
35:BA:2132:U:O4	37:BC:5:LYS:HG2	2.20	0.40
37:BC:96:GLY:C	37:BC:97:GLU:HG2	2.42	0.40
38:BD:171:ASP:O	38:BD:172:TYR:HD1	2.03	0.40
38:BD:175:LEU:HA	38:BD:175:LEU:HD22	1.82	0.40
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.86	0.40
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	3.04	0.40
39:BE:48:GLN:CD	39:BE:78:LEU:HD13	2.42	0.40
40:BF:110:LEU:CD1	40:BF:110:LEU:C	2.89	0.40
40:BF:80:ALA:O	40:BF:81:PRO:C	2.57	0.40
41:BG:106:LEU:HD21	41:BG:157:ILE:CD1	2.51	0.40
41:BG:38:VAL:HA	41:BG:93:THR:HA	2.03	0.40
45:BN:58:ASP:O	45:BN:60:ILE:HG13	2.22	0.40
48:BQ:120:ILE:O	48:BQ:121:ALA:C	2.60	0.40
49:BR:97:VAL:O	49:BR:98:LEU:HD23	2.22	0.40
50:BS:29:PHE:O	50:BS:29:PHE:HD1	2.04	0.40
52:BU:46:ALA:O	52:BU:47:TYR:C	2.59	0.40
52:BU:59:ARG:C	52:BU:61:TRP:N	2.72	0.40
54:BW:73:ALA:HB3	54:BW:106:ILE:CG1	2.52	0.40
57:BZ:136:PHE:O	57:BZ:137:ILE:HD13	2.21	0.40
57:BZ:140:ASP:C	57:BZ:141:VAL:HG23	2.40	0.40
57:BZ:5:LEU:HB3	57:BZ:59:LEU:HD23	2.03	0.40
1:AA:1059:C:H2'	1:AA:1060:C:H6	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1133:G:C2	1:AA:1142:G:N1	2.89	0.40
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.86	0.40
1:AA:1413:A:N6	1:AA:1488:G:C6	2.89	0.40
1:AA:1436:U:O5'	1:AA:1436:U:H6	2.04	0.40
1:AA:349:A:H2'	1:AA:350:G:C8	2.57	0.40
1:AA:353:A:C2'	1:AA:354:G:OP2	2.70	0.40
1:AA:423:G:H2'	1:AA:424:G:H5'	2.04	0.40
1:AA:437:U:HO2'	4:AD:123:HIS:CE1	2.39	0.40
1:AA:683:G:C5	1:AA:684:A:C5	3.10	0.40
1:AA:796:C:C2	1:AA:797:C:C6	3.09	0.40
1:AA:808:C:C2	1:AA:809:G:C8	3.09	0.40
1:AA:918:A:H62	1:AA:919:A:N6	2.18	0.40
1:AA:932:C:H5'	7:AG:4:ARG:HG3	2.02	0.40
1:AA:944:G:N2	1:AA:1338:G:C8	2.89	0.40
2:AB:136:VAL:O	2:AB:136:VAL:HG12	2.21	0.40
2:AB:19:HIS:O	2:AB:20:GLU:C	2.59	0.40
2:AB:55:PHE:CE1	2:AB:218:ALA:CB	3.04	0.40
2:AB:92:TYR:C	2:AB:93:VAL:HG12	2.40	0.40
3:AC:67:THR:HG1	3:AC:102:ASN:HD22	1.64	0.40
4:AD:163:GLU:O	4:AD:166:LYS:HG3	2.22	0.40
4:AD:3:ARG:NH1	4:AD:118:ARG:HD3	2.36	0.40
4:AD:67:ILE:O	4:AD:67:ILE:CG2	2.66	0.40
4:AD:92:VAL:O	4:AD:96:LEU:CD1	2.66	0.40
4:AD:96:LEU:HA	4:AD:99:SER:OG	2.21	0.40
5:AE:107:ARG:O	5:AE:110:LEU:N	2.54	0.40
6:AF:74:ASP:CB	6:AF:77:ARG:HH21	2.20	0.40
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	2.02	0.40
9:AI:42:ARG:NH1	9:AI:42:ARG:HG2	2.37	0.40
10:AJ:34:VAL:CG1	10:AJ:35:SER:N	2.85	0.40
10:AJ:45:ARG:HH11	10:AJ:45:ARG:HG3	1.86	0.40
12:AL:108:ALA:O	12:AL:109:GLY:O	2.39	0.40
12:AL:93:LEU:HB2	12:AL:96:VAL:CG2	2.51	0.40
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.36	0.40
15:AO:14:GLU:HG2	15:AO:15:PHE:CE1	2.57	0.40
15:AO:62:GLN:HA	15:AO:65:ARG:HD2	2.04	0.40
15:AO:62:GLN:O	15:AO:66:LEU:HG	2.21	0.40
18:AR:31:LEU:N	18:AR:31:LEU:HD23	2.35	0.40
18:AR:69:THR:O	18:AR:72:ARG:N	2.55	0.40
24:AY:231:LEU:HA	24:AY:234:VAL:HG23	2.03	0.40
24:AY:280:MET:HB3	24:AY:281:PRO:HD2	2.04	0.40
24:AY:286:THR:OG1	24:AY:287:ARG:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:332:ARG:HA	24:AY:339:ASP:OD1	2.21	0.40
24:AY:395:PRO:CA	24:AY:440:ALA:O	2.69	0.40
25:B0:80:HIS:H	25:B0:80:HIS:CD2	2.38	0.40
27:B2:13:ALA:HA	27:B2:16:LEU:HB2	2.03	0.40
27:B2:29:LYS:HD3	27:B2:57:ILE:CD1	2.51	0.40
35:BA:1069:A:C2	35:BA:1096:A:H4'	2.57	0.40
35:BA:111:A:H2'	35:BA:112:U:H6	1.81	0.40
35:BA:1022:G:N7	35:BA:1140:C:C4	2.89	0.40
35:BA:999:U:C5	35:BA:1154:G:C4	2.99	0.40
35:BA:1234:U:H2'	35:BA:1235:G:O4'	2.22	0.40
35:BA:1265:A:H2	35:BA:1266:G:N2	2.18	0.40
35:BA:1476:C:H3'	35:BA:1476:C:H6	1.87	0.40
35:BA:1494:A:N3	35:BA:1494:A:C5'	2.82	0.40
35:BA:750:A:OP1	35:BA:1615:C:N4	2.54	0.40
35:BA:1654:A:H2'	35:BA:1655:A:C8	2.55	0.40
35:BA:1656:C:H2'	35:BA:1657:C:C5	2.57	0.40
35:BA:1926:U:N3	35:BA:1929:G:N1	2.68	0.40
35:BA:1952:A:H2'	35:BA:1953:A:C8	2.56	0.40
35:BA:2318:G:H2'	35:BA:2319:G:OP1	2.20	0.40
35:BA:2432:A:C2	35:BA:2433:A:C4	3.10	0.40
35:BA:2461:C:H1'	35:BA:2492:U:N3	2.37	0.40
35:BA:2631:G:H1	39:BE:61:ARG:NH1	2.18	0.40
35:BA:334:C:P	35:BA:335:C:N4	2.94	0.40
35:BA:531:C:N3	35:BA:563:G:C8	2.90	0.40
35:BA:548:A:H2'	35:BA:549:G:H5'	2.03	0.40
35:BA:557:U:H5'	45:BN:111:PRO:HB2	2.04	0.40
35:BA:65:C:H42	35:BA:89:G:H1	1.70	0.40
36:BB:116:G:H2'	36:BB:117:G:C8	2.57	0.40
37:BC:103:ILE:HG23	37:BC:107:TRP:CE2	2.56	0.40
35:BA:1566:A:OP1	38:BD:211:ARG:NH1	2.54	0.40
38:BD:68:LYS:CB	38:BD:70:TRP:CZ3	3.04	0.40
38:BD:80:ALA:HB3	38:BD:94:LEU:HD13	2.04	0.40
35:BA:1817:G:OP1	38:BD:88:ARG:NH2	2.54	0.40
40:BF:37:VAL:O	40:BF:39:TRP:N	2.54	0.40
41:BG:45:GLU:HA	41:BG:47:LYS:HE2	2.02	0.40
42:BH:41:MET:O	42:BH:42:ARG:HB2	2.21	0.40
45:BN:131:GLN:HE22	45:BN:134:ARG:HG2	1.85	0.40
45:BN:133:GLN:HG2	45:BN:134:ARG:N	2.36	0.40
45:BN:68:GLU:HG3	45:BN:88:GLU:HG3	2.04	0.40
46:BO:24:VAL:CG2	46:BO:30:ALA:O	2.67	0.40
33:B8:13:ARG:CD	47:BP:61:ARG:HD3	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:10:ARG:HH11	48:BQ:10:ARG:CB	2.14	0.40
48:BQ:121:ALA:O	48:BQ:125:LEU:CD2	2.69	0.40
49:BR:32:GLY:O	49:BR:115:GLU:HA	2.21	0.40
49:BR:92:GLY:O	49:BR:93:GLY:C	2.60	0.40
50:BS:53:SER:H	50:BS:55:ALA:CB	2.33	0.40
50:BS:89:ARG:CG	50:BS:92:TYR:CA	3.00	0.40
51:BT:113:LYS:HA	51:BT:113:LYS:HD3	1.74	0.40
52:BU:75:ASN:O	52:BU:76:TYR:O	2.39	0.40
53:BV:6:LYS:HG2	53:BV:6:LYS:O	2.20	0.40
53:BV:19:LYS:HB2	53:BV:96:ILE:CD1	2.51	0.40
54:BW:52:GLU:OE1	54:BW:52:GLU:N	2.55	0.40
55:BX:54:VAL:HG12	55:BX:54:VAL:O	2.20	0.40
56:BY:26:LYS:HB3	56:BY:27:VAL:H	1.57	0.40
57:BZ:28:MET:O	57:BZ:28:MET:SD	2.80	0.40
57:BZ:23:LYS:HD3	57:BZ:38:TYR:CZ	2.56	0.40
57:BZ:40:ASP:C	57:BZ:40:ASP:OD1	2.60	0.40
1:AA:1001(A):G:C8	1:AA:1002:G:N7	2.90	0.40
1:AA:1029:C:O2'	1:AA:1030:C:C5	2.67	0.40
1:AA:1151:A:O2'	1:AA:1152:A:H8	2.04	0.40
1:AA:1241:G:C6	1:AA:1242:C:N4	2.89	0.40
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.20	0.40
1:AA:234:C:O2'	1:AA:235:C:H5'	2.22	0.40
1:AA:363:A:N1	1:AA:364:A:C2	2.90	0.40
1:AA:517:G:H4'	1:AA:519:C:C4	2.57	0.40
1:AA:795:C:H5'	1:AA:1522:U:OP1	2.21	0.40
2:AB:102:LEU:O	2:AB:105:PHE:CA	2.70	0.40
3:AC:157:ILE:HD12	3:AC:164:ARG:HB2	2.03	0.40
3:AC:5:ILE:HD13	3:AC:5:ILE:H	1.87	0.40
4:AD:32:ALA:O	4:AD:33:MET:C	2.60	0.40
5:AE:91:LEU:CD1	5:AE:120:THR:CB	2.99	0.40
5:AE:70:PRO:CD	5:AE:142:LEU:HB3	2.50	0.40
5:AE:51:VAL:O	5:AE:52:PRO:C	2.60	0.40
5:AE:7:GLU:O	5:AE:8:GLU:CB	2.68	0.40
6:AF:61:LEU:HD22	6:AF:63:TYR:OH	2.21	0.40
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.43	0.40
11:AK:106:LYS:O	11:AK:107:SER:HB3	2.19	0.40
13:AM:30:ALA:C	13:AM:32:GLU:N	2.74	0.40
14:AN:35:ARG:O	14:AN:36:PHE:C	2.58	0.40
15:AO:26:GLU:HG2	15:AO:26:GLU:H	1.58	0.40
18:AR:55:ARG:HD2	18:AR:55:ARG:HA	1.89	0.40
20:AT:31:SER:O	20:AT:32:ALA:C	2.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:47:U:H2'	22:AV:50:U:OP1	2.21	0.40
22:AV:57:A:O5'	22:AV:57:A:H8	2.04	0.40
24:AY:263:PHE:CD2	24:AY:264:GLY:N	2.86	0.40
24:AY:305:ALA:CB	24:AY:422:GLU:HB3	2.52	0.40
30:B5:13:LYS:C	30:B5:16:ARG:H	2.25	0.40
30:B5:9:LYS:O	30:B5:11:THR:N	2.54	0.40
31:B6:26:ASN:O	31:B6:27:LYS:CB	2.69	0.40
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.55	0.40
33:B8:4:MET:O	33:B8:62:LEU:CD1	2.66	0.40
34:B9:16:VAL:HG11	35:BA:1032:A:C4'	2.48	0.40
35:BA:1112:G:H2'	35:BA:1113:U:C6	2.56	0.40
35:BA:1286:A:N6	35:BA:1289:C:C2	2.89	0.40
35:BA:1556:C:C2'	35:BA:1557:C:H5'	2.52	0.40
35:BA:1823:G:C6	35:BA:1824:G:N7	2.89	0.40
35:BA:183:C:O2	35:BA:215:G:N2	2.54	0.40
35:BA:1973:G:C6	35:BA:1974:C:C4	3.09	0.40
35:BA:570:G:C6	35:BA:2030:A:C2	3.09	0.40
35:BA:2124:G:H3'	35:BA:2125:G:C8	2.53	0.40
35:BA:2284:C:C4	35:BA:2285:C:C5	3.10	0.40
35:BA:2431:U:C4	35:BA:2434:A:OP2	2.75	0.40
35:BA:269:U:C5	35:BA:271(Y):U:C6	3.09	0.40
35:BA:2760:C:H3'	35:BA:2761:G:H5''	2.04	0.40
35:BA:2787:C:O2	39:BE:61:ARG:CD	2.68	0.40
35:BA:310:A:O2'	35:BA:311:A:C3'	2.69	0.40
35:BA:372:G:O3'	35:BA:373:U:C6	2.75	0.40
32:B7:39:ARG:HD3	35:BA:458:G:O2'	2.22	0.40
35:BA:510:C:O2'	35:BA:511:U:H5'	2.21	0.40
35:BA:533:G:H5'	52:BU:24:TYR:CD1	2.57	0.40
35:BA:543:C:N3	35:BA:551:G:C2	2.90	0.40
35:BA:647:G:C6	35:BA:648:G:C5	3.10	0.40
35:BA:660:G:C6	35:BA:661:C:C4	3.10	0.40
35:BA:739:G:H1'	35:BA:740:U:H5	1.87	0.40
35:BA:77:C:O5'	35:BA:77:C:H6	2.04	0.40
35:BA:85:G:C6	35:BA:98:G:C2	3.10	0.40
35:BA:909:A:C2	35:BA:912:C:C2	3.09	0.40
37:BC:68:LEU:HD13	37:BC:70:LYS:HB3	2.03	0.40
38:BD:123:ALA:HA	38:BD:124:PRO:HD3	1.34	0.40
35:BA:691:C:H5'	38:BD:218:ARG:NH1	2.37	0.40
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	2.01	0.40
35:BA:2572:A:C8	39:BE:144:ARG:HG2	2.57	0.40
29:B4:27:THR:HG23	41:BG:143:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:151:ALA:HB3	41:BG:153:ARG:HH11	1.85	0.40
41:BG:83:ARG:CB	41:BG:84:LYS:HD2	2.49	0.40
47:BP:125:VAL:O	47:BP:145:PRO:HD2	2.22	0.40
47:BP:147:LEU:HG	47:BP:148:LEU:H	1.86	0.40
47:BP:16:ARG:CD	47:BP:17:LYS:N	2.85	0.40
47:BP:59:LEU:CA	47:BP:61:ARG:NE	2.74	0.40
47:BP:96:THR:O	47:BP:99:LEU:HB2	2.21	0.40
51:BT:44:ASP:O	51:BT:45:PHE:HB2	2.22	0.40
51:BT:50:ILE:N	51:BT:50:ILE:CD1	2.84	0.40
51:BT:57:PHE:C	51:BT:57:PHE:CD1	2.91	0.40
52:BU:112:ARG:HH12	53:BV:46:VAL:CB	2.34	0.40
52:BU:112:ARG:HH22	53:BV:46:VAL:CG1	2.35	0.40
52:BU:59:ARG:NH1	52:BU:59:ARG:HG2	2.37	0.40
57:BZ:19:ARG:C	57:BZ:21:ALA:N	2.73	0.40
57:BZ:24:LEU:C	57:BZ:24:LEU:HD23	2.42	0.40
57:BZ:28:MET:O	57:BZ:29:TYR:CB	2.68	0.40
57:BZ:99:TYR:CE1	57:BZ:125:LEU:CD1	3.03	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)
2:AB:62:ALA:O	37:BC:30:LYS:O[2_656]	2.18	0.02

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	110 (47%)	62 (27%)	61 (26%)	0	1
3	AC	205/239 (86%)	134 (65%)	39 (19%)	32 (16%)	0	4
4	AD	206/209 (99%)	131 (64%)	51 (25%)	24 (12%)	0	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	AE	149/162 (92%)	108 (72%)	31 (21%)	10 (7%)	1	19
6	AF	99/101 (98%)	67 (68%)	24 (24%)	8 (8%)	1	14
7	AG	153/156 (98%)	85 (56%)	44 (29%)	24 (16%)	0	3
8	AH	136/138 (99%)	94 (69%)	26 (19%)	16 (12%)	0	6
9	AI	125/128 (98%)	78 (62%)	28 (22%)	19 (15%)	0	4
10	AJ	97/105 (92%)	60 (62%)	23 (24%)	14 (14%)	0	4
11	AK	117/129 (91%)	72 (62%)	32 (27%)	13 (11%)	0	7
12	AL	123/135 (91%)	66 (54%)	33 (27%)	24 (20%)	0	2
13	AM	123/126 (98%)	63 (51%)	31 (25%)	29 (24%)	0	1
14	AN	58/61 (95%)	33 (57%)	12 (21%)	13 (22%)	0	1
15	AO	86/89 (97%)	59 (69%)	21 (24%)	6 (7%)	1	17
16	AP	82/88 (93%)	55 (67%)	17 (21%)	10 (12%)	0	6
17	AQ	98/105 (93%)	82 (84%)	10 (10%)	6 (6%)	1	20
18	AR	68/88 (77%)	37 (54%)	18 (26%)	13 (19%)	0	2
19	AS	77/93 (83%)	42 (54%)	18 (23%)	17 (22%)	0	1
20	AT	97/106 (92%)	46 (47%)	32 (33%)	19 (20%)	0	2
21	AU	23/27 (85%)	11 (48%)	8 (35%)	4 (17%)	0	3
24	AY	488/529 (92%)	314 (64%)	88 (18%)	86 (18%)	0	2
25	B0	82/85 (96%)	64 (78%)	9 (11%)	9 (11%)	0	8
26	B1	92/98 (94%)	63 (68%)	16 (17%)	13 (14%)	0	4
27	B2	69/72 (96%)	38 (55%)	22 (32%)	9 (13%)	0	5
28	B3	58/60 (97%)	38 (66%)	15 (26%)	5 (9%)	1	12
29	B4	43/71 (61%)	26 (60%)	9 (21%)	8 (19%)	0	2
30	B5	57/60 (95%)	34 (60%)	11 (19%)	12 (21%)	0	1
31	B6	48/54 (89%)	18 (38%)	16 (33%)	14 (29%)	0	0
32	B7	47/49 (96%)	29 (62%)	10 (21%)	8 (17%)	0	3
33	B8	62/65 (95%)	30 (48%)	16 (26%)	16 (26%)	0	1
34	B9	35/37 (95%)	19 (54%)	10 (29%)	6 (17%)	0	3
37	BC	226/229 (99%)	158 (70%)	39 (17%)	29 (13%)	0	5
38	BD	273/276 (99%)	195 (71%)	46 (17%)	32 (12%)	0	6
39	BE	203/206 (98%)	99 (49%)	48 (24%)	56 (28%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
40	BF	206/210 (98%)	134 (65%)	35 (17%)	37 (18%)	0	2
41	BG	179/182 (98%)	95 (53%)	47 (26%)	37 (21%)	0	2
42	BH	154/180 (86%)	111 (72%)	23 (15%)	20 (13%)	0	5
43	BJ	1/173 (1%)	1 (100%)	0	0	100	100
45	BN	137/140 (98%)	78 (57%)	28 (20%)	31 (23%)	0	1
46	BO	120/122 (98%)	84 (70%)	23 (19%)	13 (11%)	0	8
47	BP	144/150 (96%)	70 (49%)	37 (26%)	37 (26%)	0	1
48	BQ	139/141 (99%)	79 (57%)	40 (29%)	20 (14%)	0	4
49	BR	115/118 (98%)	69 (60%)	27 (24%)	19 (16%)	0	3
50	BS	97/112 (87%)	41 (42%)	23 (24%)	33 (34%)	0	0
51	BT	136/146 (93%)	75 (55%)	31 (23%)	30 (22%)	0	1
52	BU	115/118 (98%)	59 (51%)	27 (24%)	29 (25%)	0	1
53	BV	99/101 (98%)	56 (57%)	21 (21%)	22 (22%)	0	1
54	BW	111/113 (98%)	72 (65%)	25 (22%)	14 (13%)	0	5
55	BX	91/96 (95%)	55 (60%)	27 (30%)	9 (10%)	0	10
56	BY	99/110 (90%)	33 (33%)	36 (36%)	30 (30%)	0	0
57	BZ	174/206 (84%)	88 (51%)	48 (28%)	38 (22%)	0	1
All	All	6255/6850 (91%)	3758 (60%)	1413 (23%)	1084 (17%)	0	3

All (1084) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	9	GLU
2	AB	15	VAL
2	AB	18	GLY
2	AB	19	HIS
2	AB	24	TRP
2	AB	31	TYR
2	AB	75	LYS
2	AB	93	VAL
2	AB	103	THR
2	AB	105	PHE
2	AB	106	LYS
2	AB	147	LYS
2	AB	153	ARG
2	AB	181	PHE

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Mol	Chain	Res	Type
2	AB	190	THR
2	AB	194	PRO
2	AB	195	ASP
2	AB	209	ARG
2	AB	213	LEU
2	AB	223	ILE
2	AB	229	VAL
2	AB	236	TYR
2	AB	238	LEU
3	AC	12	LEU
3	AC	49	SER
3	AC	54	ARG
3	AC	55	VAL
3	AC	120	VAL
3	AC	121	ALA
3	AC	129	ALA
3	AC	154	SER
3	AC	207	VAL
4	AD	4	TYR
4	AD	5	ILE
4	AD	13	ARG
4	AD	14	ARG
4	AD	30	LYS
4	AD	32	ALA
4	AD	43	HIS
4	AD	125	HIS
4	AD	144	ASP
4	AD	186	LEU
4	AD	189	PRO
5	AE	48	ALA
5	AE	64	ARG
5	AE	65	ASN
6	AF	31	GLU
6	AF	32	ASN
6	AF	64	GLN
7	AG	120	ILE
8	AH	6	ILE
8	AH	10	LEU
8	AH	35	ILE
8	AH	91	ARG
9	AI	34	ASN
9	AI	58	ARG

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Mol	Chain	Res	Type
9	AI	89	ASN
9	AI	95	LYS
9	AI	119	ALA
10	AJ	32	ALA
10	AJ	55	LYS
10	AJ	79	ARG
10	AJ	90	LEU
12	AL	7	ILE
12	AL	18	VAL
12	AL	27	LEU
12	AL	41	ARG
12	AL	42	THR
12	AL	47	LYS
12	AL	71	PRO
12	AL	92	ASP
12	AL	94	PRO
12	AL	115	LYS
12	AL	120	TYR
12	AL	122	THR
13	AM	4	ILE
13	AM	7	VAL
13	AM	12	ASN
13	AM	28	ALA
13	AM	44	ARG
13	AM	53	VAL
13	AM	60	VAL
13	AM	71	ARG
13	AM	83	ASP
13	AM	91	ARG
13	AM	104	ARG
13	AM	124	PRO
13	AM	125	ARG
14	AN	14	PRO
14	AN	15	LYS
14	AN	16	PHE
14	AN	26	ARG
14	AN	41	ARG
14	AN	56	VAL
14	AN	58	LYS
15	AO	26	GLU
16	AP	28	ARG
16	AP	45	THR

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Mol	Chain	Res	Type
17	AQ	4	LYS
17	AQ	14	LYS
17	AQ	27	PHE
18	AR	45	SER
18	AR	60	ALA
19	AS	5	LEU
19	AS	9	VAL
19	AS	61	TYR
19	AS	62	ILE
19	AS	76	PRO
20	AT	50	GLU
20	AT	61	SER
20	AT	97	ALA
20	AT	98	PRO
20	AT	99	LEU
21	AU	6	ARG
24	AY	13	ARG
24	AY	23	ASP
24	AY	73	SER
24	AY	88	ASP
24	AY	90	PRO
24	AY	104	THR
24	AY	106	VAL
24	AY	137	ILE
24	AY	154	LEU
24	AY	163	LYS
24	AY	201	ILE
24	AY	208	LYS
24	AY	210	LEU
24	AY	237	ALA
24	AY	248	ALA
24	AY	283	GLN
24	AY	304	GLN
24	AY	305	ALA
24	AY	306	ASN
24	AY	309	PRO
24	AY	315	VAL
24	AY	317	PHE
24	AY	327	LYS
24	AY	337	ALA
24	AY	343	SER
24	AY	357	GLU

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Mol	Chain	Res	Type
24	AY	390	ILE
24	AY	392	ASN
24	AY	393	PHE
24	AY	431	ILE
24	AY	444	LEU
24	AY	499	ASP
25	B0	20	ARG
25	B0	42	GLY
26	B1	30	VAL
26	B1	52	ARG
26	B1	54	ALA
26	B1	64	ALA
26	B1	83	GLU
26	B1	85	LEU
26	B1	91	LYS
27	B2	17	SER
27	B2	50	ILE
27	B2	58	ALA
28	B3	16	PRO
29	B4	26	SER
30	B5	4	HIS
30	B5	20	ARG
30	B5	24	ALA
30	B5	25	LEU
30	B5	35	GLU
30	B5	49	CYS
31	B6	16	CYS
31	B6	17	LYS
31	B6	18	ARG
31	B6	20	ASN
31	B6	27	LYS
31	B6	28	ARG
31	B6	29	ASN
31	B6	46	HIS
31	B6	52	VAL
32	B7	2	LYS
32	B7	11	LYS
33	B8	7	HIS
33	B8	31	HIS
33	B8	33	ASN
33	B8	34	TRP
33	B8	35	GLN

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Mol	Chain	Res	Type
33	B8	37	SER
33	B8	50	LEU
33	B8	55	ALA
33	B8	61	LEU
34	B9	11	CYS
34	B9	17	ILE
34	B9	31	LYS
34	B9	33	LYS
37	BC	58	VAL
37	BC	59	ARG
37	BC	71	GLN
37	BC	78	ALA
37	BC	95	GLY
37	BC	97	GLU
37	BC	105	ASP
37	BC	109	ASP
37	BC	135	GLY
37	BC	142	ALA
37	BC	149	ILE
37	BC	164	ARG
37	BC	167	LYS
37	BC	168	THR
37	BC	177	LYS
37	BC	181	PRO
37	BC	223	ARG
38	BD	19	ALA
38	BD	27	THR
38	BD	37	LEU
38	BD	41	GLY
38	BD	53	PHE
38	BD	64	ILE
38	BD	125	ILE
38	BD	211	ARG
38	BD	226	MET
39	BE	2	LYS
39	BE	4	ILE
39	BE	35	GLN
39	BE	45	THR
39	BE	46	ALA
39	BE	56	PRO
39	BE	60	ASN
39	BE	64	LYS

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Mol	Chain	Res	Type
39	BE	66	HIS
39	BE	69	LYS
39	BE	77	ILE
39	BE	82	ARG
39	BE	83	ASP
39	BE	88	GLY
39	BE	90	THR
39	BE	112	GLY
39	BE	113	PHE
39	BE	119	ARG
39	BE	127	ASP
39	BE	178	GLU
39	BE	189	PRO
39	BE	190	GLY
39	BE	191	PRO
40	BF	3	GLU
40	BF	7	TYR
40	BF	11	VAL
40	BF	14	PRO
40	BF	21	ALA
40	BF	24	LEU
40	BF	30	PRO
40	BF	82	ILE
40	BF	84	VAL
40	BF	91	GLY
40	BF	98	SER
41	BG	68	PRO
41	BG	74	LYS
41	BG	75	LYS
41	BG	80	PHE
41	BG	82	LEU
41	BG	86	MET
41	BG	96	ARG
41	BG	138	GLN
41	BG	143	GLU
42	BH	41	MET
42	BH	52	VAL
42	BH	84	SER
42	BH	102	ALA
42	BH	126	PRO
42	BH	129	THR
42	BH	155	SER

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Mol	Chain	Res	Type
42	BH	160	LYS
45	BN	7	LYS
45	BN	36	GLY
45	BN	45	ASN
45	BN	58	ASP
45	BN	60	ILE
45	BN	63	THR
45	BN	68	GLU
45	BN	119	ARG
45	BN	133	GLN
45	BN	136	GLU
45	BN	137	LYS
46	BO	5	GLN
46	BO	25	LEU
46	BO	29	ASN
46	BO	48	PRO
46	BO	88	ASN
47	BP	10	PRO
47	BP	21	ARG
47	BP	30	THR
47	BP	33	ARG
47	BP	34	GLY
47	BP	36	LYS
47	BP	39	LYS
47	BP	47	ASP
47	BP	55	ARG
47	BP	65	ARG
47	BP	67	MET
47	BP	70	GLN
47	BP	71	VAL
47	BP	108	LYS
48	BQ	4	PRO
48	BQ	25	ASP
48	BQ	51	ARG
48	BQ	54	MET
48	BQ	71	ASP
48	BQ	99	PRO
49	BR	6	SER
49	BR	105	ARG
49	BR	117	VAL
50	BS	23	ARG
50	BS	24	LEU

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Mol	Chain	Res	Type
50	BS	35	ILE
50	BS	50	SER
50	BS	59	LYS
50	BS	62	LYS
50	BS	63	THR
50	BS	72	ALA
50	BS	79	ALA
50	BS	85	VAL
50	BS	88	ASP
50	BS	94	TYR
50	BS	97	ARG
51	BT	24	PRO
51	BT	32	TYR
51	BT	69	GLY
51	BT	80	SER
51	BT	84	GLN
51	BT	88	ILE
51	BT	107	ASP
51	BT	133	GLU
52	BU	12	ARG
52	BU	20	LEU
52	BU	91	ASP
52	BU	102	GLU
53	BV	16	PRO
53	BV	19	LYS
53	BV	27	ALA
53	BV	47	VAL
53	BV	50	PRO
53	BV	51	VAL
53	BV	53	GLU
53	BV	75	PHE
54	BW	22	ASP
54	BW	65	LEU
54	BW	67	ASP
54	BW	92	ARG
54	BW	99	ARG
54	BW	111	HIS
55	BX	4	ALA
55	BX	19	ALA
55	BX	62	LYS
56	BY	17	SER
56	BY	26	LYS

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Mol	Chain	Res	Type
56	BY	37	VAL
56	BY	50	ARG
56	BY	53	PRO
56	BY	56	PRO
56	BY	64	GLU
56	BY	65	ALA
56	BY	66	PRO
56	BY	74	PRO
56	BY	76	CYS
56	BY	77	PRO
56	BY	78	ALA
56	BY	82	PRO
56	BY	91	GLU
56	BY	101	LYS
57	BZ	31	ARG
57	BZ	34	ASN
57	BZ	52	SER
57	BZ	80	ARG
57	BZ	125	LEU
57	BZ	163	LEU
57	BZ	177	PRO
2	AB	13	ALA
2	AB	54	THR
2	AB	79	ASP
2	AB	178	ARG
2	AB	211	ILE
2	AB	225	ALA
2	AB	234	PRO
3	AC	32	LEU
3	AC	82	GLU
3	AC	84	ILE
3	AC	96	GLY
3	AC	110	ASN
3	AC	141	VAL
3	AC	143	GLU
3	AC	153	VAL
3	AC	156	ARG
4	AD	9	CYS
4	AD	35	ARG
4	AD	37	PRO
4	AD	47	ARG
4	AD	99	SER

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Mol	Chain	Res	Type
4	AD	153	ARG
4	AD	171	GLY
4	AD	172	PRO
5	AE	56	GLN
5	AE	63	ARG
6	AF	42	GLU
7	AG	19	GLY
7	AG	22	LEU
7	AG	50	ILE
7	AG	107	ALA
7	AG	113	GLU
7	AG	119	ARG
7	AG	137	LYS
7	AG	146	GLU
8	AH	20	TYR
8	AH	49	GLU
8	AH	107	LEU
9	AI	42	ARG
9	AI	54	ASP
9	AI	100	GLY
10	AJ	36	GLY
10	AJ	51	ARG
10	AJ	57	LYS
10	AJ	66	ARG
11	AK	44	SER
11	AK	62	GLN
11	AK	73	MET
11	AK	95	ILE
12	AL	29	GLY
12	AL	76	ASN
12	AL	89	ARG
12	AL	91	LYS
13	AM	5	ALA
13	AM	10	PRO
13	AM	29	ARG
13	AM	38	GLY
13	AM	42	ALA
13	AM	58	GLU
13	AM	69	GLU
13	AM	114	ARG
13	AM	117	VAL
14	AN	12	ARG

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Mol	Chain	Res	Type
14	AN	20	ALA
14	AN	51	GLY
14	AN	59	ALA
15	AO	24	SER
15	AO	27	VAL
16	AP	13	HIS
16	AP	30	GLY
16	AP	43	LYS
16	AP	62	VAL
16	AP	76	GLN
17	AQ	34	LYS
17	AQ	78	GLU
18	AR	27	GLY
18	AR	42	ARG
18	AR	68	LYS
19	AS	10	PHE
19	AS	24	ALA
19	AS	27	GLU
19	AS	43	GLU
19	AS	73	GLU
20	AT	15	ARG
20	AT	32	ALA
20	AT	49	ALA
20	AT	94	ALA
20	AT	95	ALA
21	AU	5	ASP
21	AU	9	ARG
24	AY	12	LYS
24	AY	89	THR
24	AY	105	ALA
24	AY	108	CYS
24	AY	136	PRO
24	AY	143	LYS
24	AY	155	LEU
24	AY	196	GLY
24	AY	203	GLU
24	AY	209	GLY
24	AY	211	ASN
24	AY	221	GLU
24	AY	249	GLY
24	AY	250	GLU
24	AY	285	ASP

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Mol	Chain	Res	Type
24	AY	295	LYS
24	AY	310	LYS
24	AY	314	ARG
24	AY	324	LYS
24	AY	385	MET
24	AY	405	ASP
24	AY	413	LEU
24	AY	416	LEU
24	AY	417	VAL
24	AY	422	GLU
24	AY	424	ALA
24	AY	425	VAL
24	AY	507	SER
24	AY	523	PHE
25	B0	8	GLY
25	B0	41	ARG
25	B0	55	ARG
25	B0	73	GLY
26	B1	79	GLY
26	B1	92	LYS
26	B1	94	LEU
28	B3	3	ARG
28	B3	33	GLN
29	B4	36	CYS
30	B5	10	LYS
30	B5	51	TYR
31	B6	31	PRO
31	B6	43	CYS
32	B7	12	ARG
32	B7	22	MET
32	B7	23	ARG
33	B8	3	LYS
33	B8	9	GLY
33	B8	46	ARG
33	B8	51	ALA
33	B8	56	GLU
34	B9	36	GLN
37	BC	45	ALA
37	BC	51	PRO
37	BC	111	ASP
37	BC	126	LYS
38	BD	3	VAL

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Mol	Chain	Res	Type
38	BD	11	PRO
38	BD	24	ILE
38	BD	25	THR
38	BD	35	LYS
38	BD	45	ASN
38	BD	52	ARG
38	BD	122	ASP
38	BD	170	GLY
38	BD	219	PRO
38	BD	236	GLY
38	BD	266	SER
38	BD	268	ARG
39	BE	19	ARG
39	BE	29	GLY
39	BE	33	VAL
39	BE	47	VAL
39	BE	68	ALA
39	BE	72	VAL
39	BE	86	PRO
39	BE	115	GLY
39	BE	130	GLY
39	BE	162	ALA
39	BE	172	VAL
39	BE	173	VAL
39	BE	179	GLU
39	BE	196	VAL
40	BF	10	PRO
40	BF	43	LYS
40	BF	54	ARG
40	BF	67	GLN
40	BF	85	GLY
40	BF	127	GLU
40	BF	132	VAL
40	BF	158	THR
40	BF	180	GLY
40	BF	204	ASN
41	BG	7	LEU
41	BG	29	TRP
41	BG	52	ILE
41	BG	79	ASN
41	BG	84	LYS
41	BG	85	GLY

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Mol	Chain	Res	Type
41	BG	87	PRO
41	BG	117	PHE
41	BG	118	ARG
41	BG	126	ASP
41	BG	129	GLY
41	BG	137	GLU
41	BG	172	LEU
41	BG	176	LEU
41	BG	181	ARG
42	BH	103	LEU
42	BH	104	GLU
42	BH	108	GLY
42	BH	118	PRO
42	BH	119	GLU
42	BH	151	ILE
42	BH	164	TYR
45	BN	8	GLN
45	BN	23	LEU
45	BN	24	GLY
45	BN	42	TRP
45	BN	46	VAL
45	BN	57	ALA
45	BN	76	SER
45	BN	98	VAL
45	BN	108	PRO
46	BO	27	GLY
46	BO	49	ARG
46	BO	68	GLU
46	BO	74	GLY
46	BO	90	GLN
47	BP	13	ASN
47	BP	32	THR
47	BP	51	PHE
47	BP	68	GLN
47	BP	81	GLN
47	BP	103	ALA
47	BP	104	GLY
47	BP	147	LEU
47	BP	148	LEU
48	BQ	55	VAL
48	BQ	56	ARG
48	BQ	57	HIS

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Mol	Chain	Res	Type
48	BQ	67	ARG
48	BQ	106	VAL
48	BQ	107	ALA
48	BQ	112	GLU
49	BR	8	ARG
49	BR	21	TYR
49	BR	46	GLY
49	BR	68	ARG
49	BR	72	ASP
49	BR	82	GLU
49	BR	93	GLY
49	BR	102	GLU
50	BS	13	ARG
50	BS	32	LEU
50	BS	64	GLU
50	BS	90	GLY
50	BS	102	ALA
50	BS	103	GLU
51	BT	8	LYS
51	BT	12	SER
51	BT	28	VAL
51	BT	68	TYR
51	BT	78	LEU
51	BT	93	ARG
51	BT	97	ALA
51	BT	101	PHE
51	BT	111	ARG
51	BT	129	ARG
52	BU	9	VAL
52	BU	21	ALA
52	BU	27	LEU
52	BU	76	TYR
52	BU	92	ARG
52	BU	93	LYS
52	BU	97	ASP
52	BU	116	ALA
53	BV	20	LEU
53	BV	24	LYS
53	BV	44	LYS
53	BV	80	GLN
54	BW	11	ARG
54	BW	44	ALA

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Mol	Chain	Res	Type
55	BX	12	VAL
55	BX	48	LYS
55	BX	87	GLN
55	BX	93	GLU
56	BY	29	GLU
56	BY	39	VAL
56	BY	80	GLY
56	BY	92	ASN
57	BZ	30	ASN
57	BZ	49	ARG
57	BZ	53	ILE
57	BZ	70	LEU
57	BZ	77	ASP
57	BZ	81	ARG
57	BZ	82	ARG
57	BZ	83	PRO
57	BZ	110	GLY
57	BZ	120	ILE
57	BZ	147	GLY
57	BZ	148	ASP
2	AB	27	LYS
2	AB	47	THR
2	AB	49	GLU
2	AB	57	PHE
2	AB	77	ALA
2	AB	130	ARG
2	AB	157	ARG
2	AB	171	ALA
2	AB	196	LEU
2	AB	216	SER
2	AB	224	GLN
2	AB	239	VAL
3	AC	93	LYS
6	AF	38	GLU
7	AG	43	PHE
7	AG	44	TYR
7	AG	53	LYS
7	AG	80	VAL
7	AG	88	PRO
7	AG	117	ALA
7	AG	136	LYS
7	AG	138	LYS

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Mol	Chain	Res	Type
8	AH	51	VAL
8	AH	104	ARG
8	AH	105	ARG
9	AI	101	PHE
9	AI	127	LYS
10	AJ	59	SER
10	AJ	83	GLU
11	AK	72	ALA
11	AK	127	LYS
12	AL	10	LEU
12	AL	19	ARG
12	AL	25	PRO
12	AL	83	VAL
13	AM	14	ARG
13	AM	43	THR
13	AM	57	ARG
15	AO	25	THR
16	AP	67	THR
17	AQ	82	MET
18	AR	54	ARG
18	AR	55	ARG
19	AS	35	SER
19	AS	44	MET
19	AS	75	ALA
21	AU	24	ARG
24	AY	10	VAL
24	AY	80	HIS
24	AY	100	TYR
24	AY	197	LYS
24	AY	260	LEU
24	AY	344	ASP
24	AY	443	VAL
24	AY	527	ARG
25	B0	18	ALA
25	B0	75	LEU
26	B1	65	SER
27	B2	66	GLU
29	B4	9	LEU
29	B4	20	ASN
29	B4	28	LYS
30	B5	21	SER
30	B5	57	VAL

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Mol	Chain	Res	Type
31	B6	6	ARG
33	B8	64	TYR
34	B9	2	LYS
37	BC	12	GLU
37	BC	72	VAL
37	BC	169	GLY
38	BD	23	GLU
38	BD	109	ASP
38	BD	144	ALA
38	BD	188	GLU
38	BD	243	GLY
39	BE	44	TYR
39	BE	52	LEU
39	BE	121	ASN
39	BE	124	GLY
39	BE	180	ASN
39	BE	185	LYS
39	BE	197	ILE
39	BE	204	ALA
40	BF	69	HIS
40	BF	94	PRO
40	BF	171	PRO
41	BG	112	PRO
41	BG	167	GLU
42	BH	111	HIS
45	BN	28	THR
45	BN	110	GLY
45	BN	129	PRO
46	BO	16	ALA
46	BO	51	ALA
47	BP	42	SER
47	BP	56	SER
47	BP	106	LEU
48	BQ	24	GLY
48	BQ	111	GLU
49	BR	4	LEU
49	BR	11	ASN
49	BR	51	LEU
51	BT	41	ARG
51	BT	45	PHE
51	BT	116	ALA
51	BT	132	LYS

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Mol	Chain	Res	Type
52	BU	3	ARG
52	BU	14	HIS
52	BU	15	LYS
52	BU	36	ARG
52	BU	60	LEU
53	BV	23	GLU
53	BV	56	SER
53	BV	79	VAL
54	BW	6	ILE
54	BW	63	ASP
54	BW	74	ALA
55	BX	5	TYR
56	BY	13	VAL
56	BY	81	LYS
56	BY	95	LYS
57	BZ	29	TYR
57	BZ	79	ARG
57	BZ	141	VAL
57	BZ	150	LEU
57	BZ	166	SER
2	AB	48	MET
2	AB	125	PRO
2	AB	143	GLU
2	AB	146	GLN
2	AB	155	LEU
2	AB	161	ALA
2	AB	202	PRO
2	AB	204	ASN
2	AB	215	LEU
3	AC	31	HIS
3	AC	35	GLU
3	AC	83	ARG
3	AC	136	GLN
3	AC	181	ASN
4	AD	182	LYS
6	AF	73	ASN
7	AG	55	GLY
7	AG	60	LYS
7	AG	104	LEU
8	AH	5	PRO
8	AH	19	VAL
8	AH	33	GLU

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Mol	Chain	Res	Type
8	AH	36	LEU
9	AI	24	GLY
9	AI	44	VAL
10	AJ	13	HIS
10	AJ	19	SER
10	AJ	92	THR
11	AK	65	ALA
11	AK	66	LEU
11	AK	91	ARG
11	AK	122	LYS
13	AM	41	PRO
13	AM	75	ALA
13	AM	116	THR
15	AO	88	ARG
16	AP	36	ILE
16	AP	46	PRO
18	AR	38	GLU
18	AR	57	GLY
19	AS	28	LYS
20	AT	11	SER
20	AT	19	SER
20	AT	92	LEU
24	AY	22	PRO
24	AY	369	ASN
24	AY	421	GLU
25	B0	47	PRO
26	B1	88	LYS
27	B2	18	PRO
27	B2	47	ASN
27	B2	68	ARG
27	B2	70	GLN
29	B4	8	LYS
30	B5	18	ALA
37	BC	76	ALA
37	BC	103	ILE
37	BC	217	THR
38	BD	29	PRO
38	BD	244	ARG
39	BE	53	PRO
39	BE	63	LEU
39	BE	203	LYS
40	BF	25	PRO

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Mol	Chain	Res	Type
40	BF	31	HIS
40	BF	81	PRO
40	BF	122	LYS
40	BF	140	LEU
41	BG	8	LYS
41	BG	20	ILE
41	BG	43	LEU
41	BG	53	LEU
41	BG	70	VAL
41	BG	110	ALA
41	BG	163	ALA
42	BH	29	PRO
45	BN	59	LYS
45	BN	127	ASP
46	BO	95	GLY
47	BP	43	GLY
47	BP	146	VAL
48	BQ	40	ALA
48	BQ	53	ALA
49	BR	48	VAL
49	BR	106	GLY
50	BS	18	ILE
50	BS	27	SER
50	BS	71	ARG
50	BS	92	TYR
50	BS	98	VAL
50	BS	104	GLY
51	BT	4	GLY
51	BT	33	LYS
51	BT	91	ARG
51	BT	118	ARG
52	BU	5	LYS
52	BU	13	LYS
52	BU	50	ARG
52	BU	51	LYS
52	BU	109	LEU
52	BU	114	LYS
53	BV	18	LEU
53	BV	40	LEU
54	BW	25	ARG
55	BX	11	PRO
57	BZ	14	LYS

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Mol	Chain	Res	Type
57	BZ	17	ALA
57	BZ	20	ARG
57	BZ	22	GLY
57	BZ	78	LYS
57	BZ	109	ALA
57	BZ	139	VAL
2	AB	107	THR
2	AB	124	SER
2	AB	191	ASP
2	AB	208	ILE
3	AC	39	ILE
3	AC	51	GLY
5	AE	57	LYS
5	AE	116	THR
6	AF	21	LEU
7	AG	9	VAL
7	AG	17	VAL
7	AG	155	ARG
8	AH	57	PRO
9	AI	12	GLU
9	AI	21	PRO
9	AI	33	PHE
9	AI	112	LYS
10	AJ	29	ARG
11	AK	25	TYR
14	AN	13	THR
14	AN	60	SER
18	AR	34	TYR
18	AR	36	ASN
19	AS	33	THR
20	AT	33	ILE
20	AT	34	LYS
20	AT	54	LYS
20	AT	63	ILE
24	AY	26	LYS
24	AY	65	GLN
24	AY	66	ARG
24	AY	78	PRO
24	AY	150	ASP
27	B2	59	ARG
28	B3	2	PRO
31	B6	33	LYS

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Mol	Chain	Res	Type
33	B8	11	LYS
37	BC	211	SER
38	BD	198	ASN
39	BE	62	PRO
39	BE	155	LYS
39	BE	187	ALA
40	BF	66	PRO
40	BF	164	ARG
40	BF	178	PRO
42	BH	158	HIS
47	BP	9	ASN
47	BP	19	VAL
47	BP	107	LYS
47	BP	141	ALA
47	BP	149	GLU
48	BQ	110	THR
49	BR	29	LEU
49	BR	103	ARG
50	BS	57	LYS
50	BS	60	GLY
50	BS	107	GLU
51	BT	39	ARG
52	BU	34	LYS
52	BU	77	SER
53	BV	29	PRO
53	BV	35	LEU
53	BV	48	GLY
56	BY	8	LYS
56	BY	38	ILE
56	BY	79	CYS
57	BZ	73	GLN
57	BZ	143	GLY
57	BZ	169	GLU
2	AB	158	LEU
3	AC	3	ASN
4	AD	28	SER
4	AD	188	LEU
5	AE	7	GLU
6	AF	72	VAL
9	AI	46	ALA
11	AK	106	LYS
12	AL	126	LYS

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Mol	Chain	Res	Type
13	AM	31	LYS
18	AR	77	GLY
19	AS	12	ASP
19	AS	59	PRO
20	AT	20	LEU
24	AY	11	ALA
24	AY	121	ASP
24	AY	411	GLN
24	AY	488	LYS
26	B1	53	VAL
30	B5	16	ARG
32	B7	13	ALA
32	B7	24	THR
32	B7	38	GLY
39	BE	17	ASP
40	BF	79	GLY
40	BF	102	PRO
40	BF	133	ASN
42	BH	127	GLU
45	BN	53	VAL
45	BN	88	GLU
45	BN	94	HIS
47	BP	97	PRO
48	BQ	86	GLY
48	BQ	116	GLU
50	BS	29	PHE
50	BS	48	LEU
51	BT	20	PRO
52	BU	35	ALA
52	BU	90	VAL
54	BW	14	PRO
57	BZ	18	LEU
57	BZ	124	ILE
57	BZ	128	VAL
3	AC	7	PRO
3	AC	66	VAL
3	AC	109	PRO
9	AI	98	PRO
12	AL	101	VAL
24	AY	21	HIS
28	B3	59	VAL
31	B6	30	THR

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Mol	Chain	Res	Type
37	BC	130	ILE
39	BE	193	GLY
41	BG	101	ILE
41	BG	111	LEU
41	BG	144	ILE
51	BT	110	ILE
53	BV	52	VAL
56	BY	3	VAL
56	BY	7	VAL
56	BY	42	VAL
57	BZ	61	LEU
2	AB	174	VAL
4	AD	7	PRO
8	AH	103	VAL
9	AI	68	GLY
11	AK	80	VAL
12	AL	124	LYS
18	AR	39	VAL
24	AY	442	GLY
39	BE	43	GLY
39	BE	71	GLY
39	BE	75	VAL
42	BH	15	VAL
45	BN	64	GLY
47	BP	23	PRO
47	BP	37	GLY
49	BR	58	GLY
50	BS	14	VAL
50	BS	28	VAL
50	BS	49	VAL
52	BU	63	VAL
53	BV	46	VAL
56	BY	96	ILE
2	AB	58	ILE
2	AB	65	GLY
2	AB	222	ILE
3	AC	8	ILE
15	AO	61	GLY
24	AY	198	GLY
38	BD	98	VAL
40	BF	89	VAL
40	BF	134	GLY

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Mol	Chain	Res	Type
41	BG	177	GLY
45	BN	30	ILE
51	BT	15	VAL
54	BW	71	VAL
3	AC	5	ILE
4	AD	67	ILE
5	AE	55	VAL
7	AG	14	PRO
20	AT	55	ILE
45	BN	135	PRO
47	BP	11	GLY
52	BU	100	VAL
2	AB	230	VAL
5	AE	77	PRO
12	AL	109	GLY
24	AY	334	VAL
24	AY	373	ILE
29	B4	19	GLY
38	BD	271	ILE
29	B4	41	PRO

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	
2	AB	202/220 (92%)	152 (75%)	50 (25%)	0	5
3	AC	160/188 (85%)	133 (83%)	27 (17%)	2	14
4	AD	180/181 (99%)	154 (86%)	26 (14%)	3	20
5	AE	115/123 (94%)	94 (82%)	21 (18%)	1	11
6	AF	90/90 (100%)	76 (84%)	14 (16%)	2	17
7	AG	126/127 (99%)	114 (90%)	12 (10%)	8	34
8	AH	119/119 (100%)	101 (85%)	18 (15%)	3	18
9	AI	98/99 (99%)	82 (84%)	16 (16%)	2	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	AJ	88/92 (96%)	71 (81%)	17 (19%)	1	10
11	AK	90/99 (91%)	73 (81%)	17 (19%)	1	10
12	AL	104/111 (94%)	86 (83%)	18 (17%)	2	13
13	AM	99/101 (98%)	79 (80%)	20 (20%)	1	9
14	AN	49/50 (98%)	36 (74%)	13 (26%)	0	3
15	AO	79/80 (99%)	52 (66%)	27 (34%)	0	1
16	AP	72/74 (97%)	64 (89%)	8 (11%)	6	29
17	AQ	94/97 (97%)	85 (90%)	9 (10%)	8	34
18	AR	61/77 (79%)	54 (88%)	7 (12%)	5	27
19	AS	69/80 (86%)	58 (84%)	11 (16%)	2	16
20	AT	76/82 (93%)	69 (91%)	7 (9%)	9	35
21	AU	19/22 (86%)	17 (90%)	2 (10%)	7	30
24	AY	427/453 (94%)	308 (72%)	119 (28%)	0	3
25	B0	66/67 (98%)	49 (74%)	17 (26%)	0	4
26	B1	78/83 (94%)	65 (83%)	13 (17%)	2	15
27	B2	66/67 (98%)	61 (92%)	5 (8%)	13	43
28	B3	51/52 (98%)	42 (82%)	9 (18%)	2	13
29	B4	39/63 (62%)	29 (74%)	10 (26%)	0	4
30	B5	51/52 (98%)	47 (92%)	4 (8%)	12	42
31	B6	49/52 (94%)	37 (76%)	12 (24%)	0	5
32	B7	41/42 (98%)	36 (88%)	5 (12%)	5	25
33	B8	53/55 (96%)	42 (79%)	11 (21%)	1	8
34	B9	34/34 (100%)	26 (76%)	8 (24%)	1	5
37	BC	180/181 (99%)	150 (83%)	30 (17%)	2	15
38	BD	217/218 (100%)	150 (69%)	67 (31%)	0	2
39	BE	165/166 (99%)	134 (81%)	31 (19%)	1	10
40	BF	165/166 (99%)	142 (86%)	23 (14%)	3	21
41	BG	155/156 (99%)	127 (82%)	28 (18%)	1	12
42	BH	128/148 (86%)	90 (70%)	38 (30%)	0	2
43	BJ	1/1 (100%)	1 (100%)	0	100	100
45	BN	117/119 (98%)	99 (85%)	18 (15%)	2	17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	BO	100/100 (100%)	89 (89%)	11 (11%)	6	29
47	BP	112/116 (97%)	91 (81%)	21 (19%)	1	10
48	BQ	111/111 (100%)	87 (78%)	24 (22%)	1	7
49	BR	100/101 (99%)	78 (78%)	22 (22%)	1	7
50	BS	77/88 (88%)	60 (78%)	17 (22%)	1	6
51	BT	120/127 (94%)	96 (80%)	24 (20%)	1	9
52	BU	92/94 (98%)	74 (80%)	18 (20%)	1	9
53	BV	82/82 (100%)	65 (79%)	17 (21%)	1	8
54	BW	91/92 (99%)	81 (89%)	10 (11%)	6	29
55	BX	74/78 (95%)	63 (85%)	11 (15%)	3	18
56	BY	84/91 (92%)	69 (82%)	15 (18%)	2	12
57	BZ	155/179 (87%)	117 (76%)	38 (24%)	0	5
All	All	5271/5546 (95%)	4255 (81%)	1016 (19%)	1	10

All (1016) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	9	GLU
2	AB	15	VAL
2	AB	16	HIS
2	AB	17	PHE
2	AB	20	GLU
2	AB	24	TRP
2	AB	27	LYS
2	AB	32	ILE
2	AB	33	TYR
2	AB	45	GLN
2	AB	46	LYS
2	AB	51	LEU
2	AB	58	ILE
2	AB	64	ARG
2	AB	67	THR
2	AB	69	LEU
2	AB	70	PHE
2	AB	76	GLN
2	AB	79	ASP
2	AB	98	LEU
2	AB	101	MET

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Mol	Chain	Res	Type
2	AB	102	LEU
2	AB	106	LYS
2	AB	108	ILE
2	AB	111	ARG
2	AB	130	ARG
2	AB	137	ARG
2	AB	138	LEU
2	AB	140	HIS
2	AB	145	LEU
2	AB	150	SER
2	AB	152	PHE
2	AB	155	LEU
2	AB	162	ILE
2	AB	168	THR
2	AB	172	ILE
2	AB	178	ARG
2	AB	183	PRO
2	AB	185	ILE
2	AB	189	ASP
2	AB	193	ASP
2	AB	195	ASP
2	AB	198	ASP
2	AB	204	ASN
2	AB	212	GLN
2	AB	217	ARG
2	AB	231	GLU
2	AB	232	PRO
2	AB	234	PRO
2	AB	236	TYR
3	AC	5	ILE
3	AC	10	PHE
3	AC	14	ILE
3	AC	15	THR
3	AC	16	ARG
3	AC	23	TYR
3	AC	29	TYR
3	AC	38	ARG
3	AC	49	SER
3	AC	54	ARG
3	AC	59	ARG
3	AC	68	VAL
3	AC	77	ILE

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Mol	Chain	Res	Type
3	AC	85	ARG
3	AC	88	ARG
3	AC	98	ASN
3	AC	107	GLN
3	AC	109	PRO
3	AC	135	LYS
3	AC	167	TRP
3	AC	173	VAL
3	AC	176	HIS
3	AC	179	ARG
3	AC	188	LEU
3	AC	192	THR
3	AC	196	LEU
3	AC	207	VAL
4	AD	3	ARG
4	AD	8	VAL
4	AD	11	LEU
4	AD	15	GLU
4	AD	31	CYS
4	AD	49	ARG
4	AD	50	ARG
4	AD	56	VAL
4	AD	59	ARG
4	AD	78	LEU
4	AD	98	GLU
4	AD	108	LEU
4	AD	122	ARG
4	AD	132	ARG
4	AD	134	ASP
4	AD	135	LEU
4	AD	154	ASN
4	AD	156	GLU
4	AD	178	VAL
4	AD	181	MET
4	AD	190	ASP
4	AD	192	GLU
4	AD	196	LEU
4	AD	200	GLU
4	AD	208	SER
4	AD	209	ARG
5	AE	10	MET
5	AE	11	ILE

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Mol	Chain	Res	Type
5	AE	12	LEU
5	AE	18	ARG
5	AE	20	GLN
5	AE	24	ARG
5	AE	31	LEU
5	AE	36	ASP
5	AE	47	LYS
5	AE	52	PRO
5	AE	53	LEU
5	AE	73	ASN
5	AE	76	ILE
5	AE	87	SER
5	AE	107	ARG
5	AE	116	THR
5	AE	119	LEU
5	AE	127	ASN
5	AE	128	PRO
5	AE	140	ARG
5	AE	147	ASP
6	AF	10	LEU
6	AF	14	LEU
6	AF	15	ASP
6	AF	21	LEU
6	AF	25	ILE
6	AF	26	ILE
6	AF	47	ARG
6	AF	55	ASP
6	AF	61	LEU
6	AF	83	ASP
6	AF	87	ARG
6	AF	92	LYS
6	AF	97	PHE
6	AF	98	LEU
7	AG	30	ILE
7	AG	37	ASN
7	AG	41	ARG
7	AG	72	ARG
7	AG	78	ARG
7	AG	88	PRO
7	AG	89	MET
7	AG	104	LEU
7	AG	114	ARG

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Mol	Chain	Res	Type
7	AG	124	LEU
7	AG	136	LYS
7	AG	137	LYS
8	AH	1	MET
8	AH	2	LEU
8	AH	6	ILE
8	AH	14	ARG
8	AH	18	ARG
8	AH	25	ASP
8	AH	30	ARG
8	AH	52	ASP
8	AH	82	HIS
8	AH	91	ARG
8	AH	92	ARG
8	AH	102	ARG
8	AH	104	ARG
8	AH	109	ILE
8	AH	112	LEU
8	AH	127	LEU
8	AH	135	CYS
8	AH	137	VAL
9	AI	3	GLN
9	AI	10	ARG
9	AI	41	VAL
9	AI	56	LEU
9	AI	95	LYS
9	AI	98	PRO
9	AI	99	LEU
9	AI	102	LEU
9	AI	104	ARG
9	AI	105	ASP
9	AI	111	ARG
9	AI	112	LYS
9	AI	114	TYR
9	AI	121	ARG
9	AI	126	SER
9	AI	128	ARG
10	AJ	6	ILE
10	AJ	12	ASP
10	AJ	17	ASP
10	AJ	40	LEU
10	AJ	43	ARG

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Mol	Chain	Res	Type
10	AJ	48	THR
10	AJ	49	VAL
10	AJ	50	ILE
10	AJ	51	ARG
10	AJ	54	PHE
10	AJ	55	LYS
10	AJ	57	LYS
10	AJ	58	ASP
10	AJ	67	THR
10	AJ	73	ASP
10	AJ	92	THR
10	AJ	96	ILE
11	AK	14	VAL
11	AK	29	ILE
11	AK	31	THR
11	AK	36	ASP
11	AK	38	ASN
11	AK	51	LYS
11	AK	66	LEU
11	AK	80	VAL
11	AK	84	VAL
11	AK	91	ARG
11	AK	104	GLN
11	AK	116	HIS
11	AK	117	ASN
11	AK	119	CYS
11	AK	124	LYS
11	AK	125	PHE
11	AK	126	ARG
12	AL	18	VAL
12	AL	20	LYS
12	AL	27	LEU
12	AL	33	ARG
12	AL	36	VAL
12	AL	37	CYS
12	AL	43	VAL
12	AL	44	THR
12	AL	47	LYS
12	AL	48	PRO
12	AL	53	ARG
12	AL	54	LYS
12	AL	83	VAL

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Mol	Chain	Res	Type
12	AL	84	LEU
12	AL	89	ARG
12	AL	94	PRO
12	AL	122	THR
12	AL	126	LYS
13	AM	9	ILE
13	AM	12	ASN
13	AM	19	LEU
13	AM	56	LEU
13	AM	58	GLU
13	AM	64	TRP
13	AM	65	LYS
13	AM	67	GLU
13	AM	73	GLU
13	AM	77	ASN
13	AM	78	ILE
13	AM	82	MET
13	AM	86	CYS
13	AM	90	LEU
13	AM	93	ARG
13	AM	101	GLN
13	AM	102	ARG
13	AM	108	ARG
13	AM	115	LYS
13	AM	120	LYS
14	AN	4	LYS
14	AN	14	PRO
14	AN	17	LYS
14	AN	19	ARG
14	AN	21	TYR
14	AN	26	ARG
14	AN	32	SER
14	AN	33	VAL
14	AN	41	ARG
14	AN	47	LEU
14	AN	56	VAL
14	AN	57	ARG
14	AN	58	LYS
15	AO	3	ILE
15	AO	7	GLU
15	AO	10	LYS
15	AO	11	VAL

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Mol	Chain	Res	Type
15	AO	15	PHE
15	AO	17	ARG
15	AO	22	THR
15	AO	26	GLU
15	AO	27	VAL
15	AO	33	THR
15	AO	38	ARG
15	AO	40	SER
15	AO	42	HIS
15	AO	43	LEU
15	AO	45	VAL
15	AO	51	HIS
15	AO	53	HIS
15	AO	58	MET
15	AO	63	ARG
15	AO	65	ARG
15	AO	68	ARG
15	AO	77	ARG
15	AO	82	ILE
15	AO	83	GLU
15	AO	85	LEU
15	AO	87	ILE
15	AO	88	ARG
16	AP	1	MET
16	AP	17	TYR
16	AP	22	THR
16	AP	40	ASP
16	AP	53	VAL
16	AP	55	ARG
16	AP	75	ARG
16	AP	80	PHE
17	AQ	25	ARG
17	AQ	36	ILE
17	AQ	38	ARG
17	AQ	49	GLU
17	AQ	52	LYS
17	AQ	55	ASP
17	AQ	57	VAL
17	AQ	73	VAL
17	AQ	91	ARG
18	AR	34	TYR
18	AR	38	GLU

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Mol	Chain	Res	Type
18	AR	44	LEU
18	AR	47	THR
18	AR	82	THR
18	AR	84	LYS
18	AR	88	LYS
19	AS	4	SER
19	AS	6	LYS
19	AS	7	LYS
19	AS	10	PHE
19	AS	22	LEU
19	AS	27	GLU
19	AS	29	ARG
19	AS	37	ARG
19	AS	41	VAL
19	AS	44	MET
19	AS	45	VAL
20	AT	13	LEU
20	AT	26	ASN
20	AT	35	THR
20	AT	41	ILE
20	AT	61	SER
20	AT	74	LYS
20	AT	93	GLU
21	AU	15	ARG
21	AU	18	TYR
24	AY	7	LEU
24	AY	14	ARG
24	AY	21	HIS
24	AY	22	PRO
24	AY	23	ASP
24	AY	26	LYS
24	AY	30	THR
24	AY	36	PHE
24	AY	69	SER
24	AY	73	SER
24	AY	77	PHE
24	AY	85	ASN
24	AY	94	ASP
24	AY	99	THR
24	AY	101	ARG
24	AY	103	LEU
24	AY	111	MET

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Mol	Chain	Res	Type
24	AY	114	ASP
24	AY	119	VAL
24	AY	123	THR
24	AY	127	MET
24	AY	131	ARG
24	AY	137	ILE
24	AY	141	MET
24	AY	145	ASP
24	AY	146	ARG
24	AY	147	ASP
24	AY	150	ASP
24	AY	158	VAL
24	AY	162	LEU
24	AY	164	ILE
24	AY	178	LEU
24	AY	183	TYR
24	AY	185	LEU
24	AY	192	LEU
24	AY	193	TYR
24	AY	194	GLN
24	AY	208	LYS
24	AY	210	LEU
24	AY	212	ASN
24	AY	215	LEU
24	AY	229	ASP
24	AY	230	GLU
24	AY	231	LEU
24	AY	235	LYS
24	AY	239	ASN
24	AY	244	GLU
24	AY	247	LEU
24	AY	251	ILE
24	AY	258	THR
24	AY	263	PHE
24	AY	266	ASP
24	AY	267	HIS
24	AY	268	MET
24	AY	269	LEU
24	AY	270	ASP
24	AY	272	LEU
24	AY	274	GLU
24	AY	284	THR

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Mol	Chain	Res	Type
24	AY	287	ARG
24	AY	289	VAL
24	AY	299	PHE
24	AY	307	MET
24	AY	308	ASP
24	AY	309	PRO
24	AY	310	LYS
24	AY	312	ARG
24	AY	313	ASP
24	AY	324	LYS
24	AY	331	LEU
24	AY	332	ARG
24	AY	335	ARG
24	AY	342	ILE
24	AY	344	ASP
24	AY	347	THR
24	AY	360	TYR
24	AY	365	LEU
24	AY	372	THR
24	AY	377	ASP
24	AY	379	PHE
24	AY	385	MET
24	AY	386	LYS
24	AY	387	PHE
24	AY	388	THR
24	AY	392	ASN
24	AY	396	GLU
24	AY	397	LEU
24	AY	399	ARG
24	AY	401	ILE
24	AY	403	LEU
24	AY	404	LYS
24	AY	405	ASP
24	AY	419	LEU
24	AY	425	VAL
24	AY	427	VAL
24	AY	431	ILE
24	AY	433	ASN
24	AY	450	VAL
24	AY	455	SER
24	AY	460	GLU
24	AY	465	SER

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Mol	Chain	Res	Type
24	AY	467	ASN
24	AY	470	THR
24	AY	472	ARG
24	AY	476	CYS
24	AY	480	LYS
24	AY	485	PHE
24	AY	488	LYS
24	AY	490	GLU
24	AY	492	GLN
24	AY	496	ASP
24	AY	499	ASP
24	AY	504	ILE
24	AY	508	MET
24	AY	511	LEU
24	AY	516	GLU
24	AY	518	TYR
24	AY	521	VAL
24	AY	526	THR
25	B0	5	LYS
25	B0	11	ARG
25	B0	16	SER
25	B0	20	ARG
25	B0	27	GLU
25	B0	37	LEU
25	B0	41	ARG
25	B0	43	THR
25	B0	44	ARG
25	B0	62	LEU
25	B0	63	VAL
25	B0	67	VAL
25	B0	69	PHE
25	B0	75	LEU
25	B0	80	HIS
25	B0	81	VAL
25	B0	84	LEU
26	B1	3	LYS
26	B1	13	ILE
26	B1	21	ARG
26	B1	26	ARG
26	B1	35	THR
26	B1	38	SER
26	B1	39	LYS

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Mol	Chain	Res	Type
26	B1	45	ASN
26	B1	56	GLN
26	B1	83	GLU
26	B1	92	LYS
26	B1	94	LEU
26	B1	95	LEU
27	B2	7	ARG
27	B2	22	GLU
27	B2	45	SER
27	B2	59	ARG
27	B2	64	LEU
28	B3	6	VAL
28	B3	8	LEU
28	B3	11	SER
28	B3	16	PRO
28	B3	28	LEU
28	B3	33	GLN
28	B3	35	ARG
28	B3	37	LEU
28	B3	46	ASN
29	B4	5	ILE
29	B4	6	HIS
29	B4	9	LEU
29	B4	20	ASN
29	B4	25	TYR
29	B4	26	SER
29	B4	28	LYS
29	B4	32	TYR
29	B4	34	GLU
29	B4	40	HIS
30	B5	3	LYS
30	B5	11	THR
30	B5	25	LEU
30	B5	48	GLU
31	B6	5	VAL
31	B6	10	LEU
31	B6	11	LEU
31	B6	14	THR
31	B6	18	ARG
31	B6	30	THR
31	B6	31	PRO
31	B6	36	LEU

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Mol	Chain	Res	Type
31	B6	42	TRP
31	B6	44	ARG
31	B6	45	LYS
31	B6	53	LYS
32	B7	1	MET
32	B7	8	ASN
32	B7	24	THR
32	B7	47	ARG
32	B7	48	LYS
33	B8	19	SER
33	B8	26	LYS
33	B8	30	ARG
33	B8	31	HIS
33	B8	34	TRP
33	B8	42	ARG
33	B8	44	LYS
33	B8	47	LYS
33	B8	49	VAL
33	B8	61	LEU
33	B8	64	TYR
34	B9	1	MET
34	B9	2	LYS
34	B9	8	LYS
34	B9	10	ILE
34	B9	18	ARG
34	B9	28	GLU
34	B9	29	ASN
34	B9	36	GLN
37	BC	3	HIS
37	BC	5	LYS
37	BC	6	ARG
37	BC	10	LEU
37	BC	27	HIS
37	BC	28	LEU
37	BC	30	LYS
37	BC	46	LYS
37	BC	47	LEU
37	BC	52	ARG
37	BC	57	ASN
37	BC	71	GLN
37	BC	92	ASP
37	BC	104	LEU

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Mol	Chain	Res	Type
37	BC	107	TRP
37	BC	108	MET
37	BC	109	ASP
37	BC	134	ARG
37	BC	139	ASN
37	BC	147	PHE
37	BC	162	GLU
37	BC	163	PHE
37	BC	167	LYS
37	BC	168	THR
37	BC	171	ILE
37	BC	183	GLU
37	BC	184	LYS
37	BC	187	ASP
37	BC	215	THR
37	BC	221	SER
38	BD	3	VAL
38	BD	7	LYS
38	BD	9	TYR
38	BD	14	ARG
38	BD	18	VAL
38	BD	27	THR
38	BD	28	GLU
38	BD	29	PRO
38	BD	31	LYS
38	BD	33	LEU
38	BD	35	LYS
38	BD	37	LEU
38	BD	40	THR
38	BD	43	ARG
38	BD	45	ASN
38	BD	49	ILE
38	BD	52	ARG
38	BD	59	LYS
38	BD	61	LEU
38	BD	64	ILE
38	BD	68	LYS
38	BD	73	VAL
38	BD	79	VAL
38	BD	87	ASN
38	BD	88	ARG
38	BD	91	ARG

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Mol	Chain	Res	Type
38	BD	95	LEU
38	BD	102	LYS
38	BD	105	ILE
38	BD	111	LEU
38	BD	113	VAL
38	BD	115	GLN
38	BD	116	GLN
38	BD	117	VAL
38	BD	118	VAL
38	BD	127	VAL
38	BD	134	ARG
38	BD	137	PRO
38	BD	141	VAL
38	BD	142	VAL
38	BD	157	ARG
38	BD	162	SER
38	BD	165	ILE
38	BD	169	GLU
38	BD	172	TYR
38	BD	174	ILE
38	BD	175	LEU
38	BD	176	ARG
38	BD	181	GLU
38	BD	192	THR
38	BD	193	VAL
38	BD	198	ASN
38	BD	200	ASP
38	BD	202	LYS
38	BD	204	ILE
38	BD	206	LEU
38	BD	211	ARG
38	BD	212	SER
38	BD	242	ARG
38	BD	252	TRP
38	BD	257	LEU
38	BD	260	ARG
38	BD	262	ARG
38	BD	263	ARG
38	BD	264	LYS
38	BD	268	ARG
38	BD	274	ARG
39	BE	26	ILE

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Mol	Chain	Res	Type
39	BE	27	LEU
39	BE	36	ARG
39	BE	40	GLU
39	BE	53	PRO
39	BE	54	GLN
39	BE	55	ASN
39	BE	57	LYS
39	BE	61	ARG
39	BE	64	LYS
39	BE	67	PHE
39	BE	69	LYS
39	BE	76	ARG
39	BE	79	ARG
39	BE	82	ARG
39	BE	85	ASN
39	BE	94	GLU
39	BE	102	VAL
39	BE	111	ARG
39	BE	121	ASN
39	BE	122	PHE
39	BE	129	HIS
39	BE	133	LYS
39	BE	134	ILE
39	BE	143	ASN
39	BE	169	ASN
39	BE	178	GLU
39	BE	182	LEU
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	11	VAL
40	BF	19	GLU
40	BF	23	ASP
40	BF	28	ILE
40	BF	53	THR
40	BF	64	ILE
40	BF	65	TRP
40	BF	66	PRO
40	BF	82	ILE
40	BF	83	PHE
40	BF	98	SER
40	BF	102	PRO

Continued on next page...

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Mol	Chain	Res	Type
40	BF	122	LYS
40	BF	123	LEU
40	BF	125	LEU
40	BF	127	GLU
40	BF	136	THR
40	BF	160	ASN
40	BF	164	ARG
40	BF	168	ARG
40	BF	169	ASN
40	BF	172	TRP
40	BF	206	ILE
41	BG	10	LYS
41	BG	16	ARG
41	BG	21	ARG
41	BG	22	ARG
41	BG	26	GLN
41	BG	33	ARG
41	BG	36	LYS
41	BG	40	ASN
41	BG	45	GLU
41	BG	49	ASP
41	BG	52	ILE
41	BG	58	GLN
41	BG	60	LEU
41	BG	63	ILE
41	BG	67	LYS
41	BG	80	PHE
41	BG	82	LEU
41	BG	84	LYS
41	BG	86	MET
41	BG	102	PHE
41	BG	104	GLU
41	BG	125	PHE
41	BG	130	ASN
41	BG	146	TYR
41	BG	149	VAL
41	BG	152	LEU
41	BG	153	ARG
41	BG	179	PRO
42	BH	23	ARG
42	BH	25	LYS
42	BH	27	LYS

Continued on next page...

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Mol	Chain	Res	Type
42	BH	34	GLU
42	BH	38	SER
42	BH	41	MET
42	BH	43	VAL
42	BH	46	GLU
42	BH	49	VAL
42	BH	50	VAL
42	BH	52	VAL
42	BH	54	ARG
42	BH	59	ARG
42	BH	60	ARG
42	BH	64	LEU
42	BH	65	HIS
42	BH	80	SER
42	BH	83	TYR
42	BH	85	LYS
42	BH	87	LEU
42	BH	88	LEU
42	BH	98	LEU
42	BH	103	LEU
42	BH	104	GLU
42	BH	105	LEU
42	BH	113	VAL
42	BH	116	GLU
42	BH	119	GLU
42	BH	126	PRO
42	BH	127	GLU
42	BH	129	THR
42	BH	131	VAL
42	BH	137	ASP
42	BH	149	ARG
42	BH	151	ILE
42	BH	162	ILE
42	BH	163	TYR
42	BH	164	TYR
45	BN	1	MET
45	BN	2	LYS
45	BN	4	TYR
45	BN	10	GLU
45	BN	19	GLU
45	BN	25	ARG
45	BN	34	LEU

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Mol	Chain	Res	Type
45	BN	48	MET
45	BN	55	VAL
45	BN	56	ASN
45	BN	63	THR
45	BN	65	LYS
45	BN	75	TYR
45	BN	90	MET
45	BN	99	LEU
45	BN	120	LEU
45	BN	123	TYR
45	BN	127	ASP
46	BO	12	ASP
46	BO	17	ARG
46	BO	23	ARG
46	BO	29	ASN
46	BO	40	VAL
46	BO	47	ILE
46	BO	48	PRO
46	BO	73	ASP
46	BO	87	ILE
46	BO	98	VAL
46	BO	113	LYS
47	BP	6	LEU
47	BP	7	ARG
47	BP	16	ARG
47	BP	18	ARG
47	BP	21	ARG
47	BP	30	THR
47	BP	41	ARG
47	BP	55	ARG
47	BP	61	ARG
47	BP	62	LEU
47	BP	68	GLN
47	BP	70	GLN
47	BP	75	ILE
47	BP	77	ARG
47	BP	91	PHE
47	BP	110	TYR
47	BP	111	ARG
47	BP	112	LEU
47	BP	123	LEU
47	BP	132	LYS

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Mol	Chain	Res	Type
47	BP	139	LYS
48	BQ	6	ARG
48	BQ	10	ARG
48	BQ	14	ARG
48	BQ	17	LEU
48	BQ	22	LYS
48	BQ	31	ASP
48	BQ	42	ILE
48	BQ	45	GLN
48	BQ	51	ARG
48	BQ	54	MET
48	BQ	55	VAL
48	BQ	58	PHE
48	BQ	59	ARG
48	BQ	60	ARG
48	BQ	63	LYS
48	BQ	67	ARG
48	BQ	68	ILE
48	BQ	74	TYR
48	BQ	103	MET
48	BQ	104	PHE
48	BQ	110	THR
48	BQ	125	LEU
48	BQ	133	ARG
48	BQ	141	GLN
49	BR	2	ARG
49	BR	5	LYS
49	BR	8	ARG
49	BR	23	ASN
49	BR	28	LEU
49	BR	29	LEU
49	BR	45	ARG
49	BR	49	ASP
49	BR	57	ARG
49	BR	63	ARG
49	BR	66	VAL
49	BR	67	LEU
49	BR	71	GLN
49	BR	75	LEU
49	BR	79	LEU
49	BR	90	ARG
49	BR	94	TYR

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Mol	Chain	Res	Type
49	BR	97	VAL
49	BR	99	LYS
49	BR	100	LEU
49	BR	113	LEU
49	BR	117	VAL
50	BS	11	LYS
50	BS	12	PHE
50	BS	15	ARG
50	BS	17	ARG
50	BS	20	ARG
50	BS	26	LEU
50	BS	29	PHE
50	BS	35	ILE
50	BS	36	TYR
50	BS	52	SER
50	BS	54	LEU
50	BS	56	LEU
50	BS	84	GLN
50	BS	92	TYR
50	BS	97	ARG
50	BS	101	LEU
50	BS	106	ARG
51	BT	11	GLU
51	BT	16	ARG
51	BT	23	ARG
51	BT	24	PRO
51	BT	29	ARG
51	BT	32	TYR
51	BT	38	ASN
51	BT	41	ARG
51	BT	43	GLN
51	BT	58	ASN
51	BT	65	LYS
51	BT	67	SER
51	BT	77	PRO
51	BT	82	LEU
51	BT	83	ILE
51	BT	89	VAL
51	BT	96	ARG
51	BT	99	LEU
51	BT	102	ILE
51	BT	122	ASP

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Mol	Chain	Res	Type
51	BT	123	GLN
51	BT	124	ASP
51	BT	128	GLU
51	BT	132	LYS
52	BU	13	LYS
52	BU	14	HIS
52	BU	20	LEU
52	BU	28	ARG
52	BU	44	ASN
52	BU	47	TYR
52	BU	55	ARG
52	BU	56	ASP
52	BU	59	ARG
52	BU	66	ASN
52	BU	74	LEU
52	BU	88	ILE
52	BU	90	VAL
52	BU	101	ARG
52	BU	102	GLU
52	BU	105	VAL
52	BU	108	GLU
52	BU	114	LYS
53	BV	12	TYR
53	BV	13	ARG
53	BV	16	PRO
53	BV	18	LEU
53	BV	19	LYS
53	BV	21	ARG
53	BV	39	LEU
53	BV	47	VAL
53	BV	50	PRO
53	BV	51	VAL
53	BV	70	ILE
53	BV	73	SER
53	BV	89	GLN
53	BV	91	TYR
53	BV	92	THR
53	BV	96	ILE
53	BV	99	ILE
54	BW	9	TYR
54	BW	11	ARG
54	BW	51	LEU

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Mol	Chain	Res	Type
54	BW	63	ASP
54	BW	82	LEU
54	BW	88	ARG
54	BW	96	ILE
54	BW	102	HIS
54	BW	103	ILE
54	BW	107	LEU
55	BX	11	PRO
55	BX	14	SER
55	BX	26	TYR
55	BX	28	PHE
55	BX	36	LYS
55	BX	45	THR
55	BX	57	LEU
55	BX	68	ARG
55	BX	69	TYR
55	BX	76	ARG
55	BX	87	GLN
56	BY	2	ARG
56	BY	6	HIS
56	BY	7	VAL
56	BY	9	LYS
56	BY	11	ASP
56	BY	13	VAL
56	BY	38	ILE
56	BY	50	ARG
56	BY	53	PRO
56	BY	56	PRO
56	BY	62	GLU
56	BY	73	ARG
56	BY	77	PRO
56	BY	83	THR
56	BY	99	CYS
57	BZ	3	TYR
57	BZ	5	LEU
57	BZ	6	LYS
57	BZ	18	LEU
57	BZ	19	ARG
57	BZ	20	ARG
57	BZ	28	MET
57	BZ	29	TYR
57	BZ	30	ASN

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Mol	Chain	Res	Type
57	BZ	35	ARG
57	BZ	38	TYR
57	BZ	40	ASP
57	BZ	41	LEU
57	BZ	44	PHE
57	BZ	45	ASP
57	BZ	48	PHE
57	BZ	57	ILE
57	BZ	66	SER
57	BZ	70	LEU
57	BZ	71	VAL
57	BZ	72	ARG
57	BZ	73	GLN
57	BZ	76	LEU
57	BZ	87	ASP
57	BZ	89	PHE
57	BZ	93	ASP
57	BZ	97	GLU
57	BZ	98	MET
57	BZ	103	ARG
57	BZ	104	PHE
57	BZ	122	ARG
57	BZ	123	ASP
57	BZ	124	ILE
57	BZ	127	LYS
57	BZ	136	PHE
57	BZ	142	SER
57	BZ	154	ASP
57	BZ	155	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (184) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	19	HIS
2	AB	37	ASN
2	AB	40	HIS
2	AB	45	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	102	ASN

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Mol	Chain	Res	Type
3	AC	118	GLN
3	AC	139	GLN
3	AC	170	GLN
3	AC	176	HIS
4	AD	62	GLN
4	AD	119	GLN
4	AD	129	ASN
4	AD	160	GLN
5	AE	20	GLN
5	AE	73	ASN
5	AE	78	HIS
6	AF	7	ASN
6	AF	13	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	100	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	28	ASN
7	AG	37	ASN
7	AG	56	GLN
7	AG	68	ASN
7	AG	84	ASN
7	AG	106	GLN
8	AH	15	ASN
8	AH	78	GLN
8	AH	82	HIS
9	AI	3	GLN
9	AI	31	GLN
9	AI	73	GLN
9	AI	124	GLN
10	AJ	13	HIS
10	AJ	56	HIS
10	AJ	68	HIS
10	AJ	84	GLN
11	AK	38	ASN
11	AK	117	ASN
12	AL	8	ASN
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
13	AM	12	ASN

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Mol	Chain	Res	Type
13	AM	40	ASN
13	AM	101	GLN
14	AN	49	HIS
15	AO	37	ASN
15	AO	46	HIS
16	AP	65	GLN
16	AP	76	GLN
17	AQ	16	GLN
17	AQ	26	GLN
19	AS	14	HIS
19	AS	56	GLN
20	AT	18	GLN
20	AT	26	ASN
20	AT	42	GLN
24	AY	21	HIS
24	AY	76	GLN
24	AY	85	ASN
24	AY	142	ASN
24	AY	202	GLN
24	AY	225	GLN
24	AY	262	ASN
24	AY	267	HIS
24	AY	311	HIS
24	AY	369	ASN
24	AY	392	ASN
24	AY	426	GLN
24	AY	434	ASN
24	AY	445	GLN
24	AY	458	ASN
24	AY	510	ASN
24	AY	529	HIS
25	B0	29	GLN
25	B0	70	GLN
26	B1	19	GLN
26	B1	45	ASN
26	B1	56	GLN
26	B1	66	HIS
27	B2	43	GLN
27	B2	56	GLN
27	B2	65	ASN
28	B3	19	GLN
28	B3	32	GLN

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Mol	Chain	Res	Type
28	B3	52	HIS
29	B4	6	HIS
29	B4	20	ASN
29	B4	40	HIS
29	B4	46	GLN
30	B5	43	HIS
31	B6	26	ASN
31	B6	32	ASN
33	B8	33	ASN
33	B8	35	GLN
34	B9	29	ASN
34	B9	36	GLN
37	BC	57	ASN
37	BC	66	HIS
37	BC	188	ASN
37	BC	225	ASN
38	BD	44	ASN
38	BD	45	ASN
38	BD	58	HIS
38	BD	87	ASN
38	BD	115	GLN
38	BD	129	ASN
38	BD	166	GLN
38	BD	198	ASN
38	BD	203	ASN
38	BD	227	ASN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	121	ASN
39	BE	132	HIS
39	BE	135	HIS
39	BE	169	ASN
40	BF	67	GLN
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN
41	BG	40	ASN
41	BG	41	GLN
41	BG	58	GLN
41	BG	66	GLN

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Mol	Chain	Res	Type
41	BG	108	ASN
41	BG	121	ASN
41	BG	138	GLN
42	BH	65	HIS
42	BH	143	GLN
45	BN	56	ASN
45	BN	69	GLN
45	BN	131	GLN
46	BO	5	GLN
46	BO	29	ASN
47	BP	35	HIS
47	BP	70	GLN
47	BP	84	ASN
47	BP	128	HIS
48	BQ	45	GLN
48	BQ	46	GLN
48	BQ	123	HIS
48	BQ	141	GLN
49	BR	3	HIS
49	BR	13	HIS
49	BR	23	ASN
49	BR	24	GLN
49	BR	31	HIS
49	BR	61	HIS
49	BR	71	GLN
50	BS	16	ASN
50	BS	34	HIS
51	BT	58	ASN
51	BT	79	HIS
51	BT	123	GLN
52	BU	49	HIS
52	BU	66	ASN
52	BU	72	HIS
52	BU	94	ASN
53	BV	11	GLN
53	BV	89	GLN
54	BW	40	ASN
54	BW	57	ASN
54	BW	60	ASN
54	BW	62	HIS
54	BW	102	HIS
55	BX	41	ASN

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Mol	Chain	Res	Type
55	BX	82	GLN
55	BX	87	GLN
57	BZ	55	HIS
57	BZ	73	GLN
57	BZ	75	ASN
57	BZ	118	GLN
57	BZ	151	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	273 (18%)	58 (3%)
22	AV	76/77 (98%)	36 (47%)	3 (3%)
23	AX	8/9 (88%)	5 (62%)	0
35	BA	2900/2915 (99%)	654 (22%)	73 (2%)
36	BB	118/122 (96%)	24 (20%)	1 (0%)
All	All	4605/4645 (99%)	992 (21%)	135 (2%)

All (992) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	54	C
1	AA	60	A
1	AA	61	G
1	AA	65	U
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	89	C
1	AA	90	U
1	AA	97	G
1	AA	101	A
1	AA	102	G

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Mol	Chain	Res	Type
1	AA	110	C
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	131	C
1	AA	144	G
1	AA	146	G
1	AA	147	G
1	AA	150	C
1	AA	165	C
1	AA	172	A
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	199	G
1	AA	203	U
1	AA	204	U
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	253	U
1	AA	267	C
1	AA	274	A
1	AA	275	G
1	AA	281	G
1	AA	289	G
1	AA	328	C
1	AA	330	C
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	347	G
1	AA	348	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C

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Mol	Chain	Res	Type
1	AA	389	A
1	AA	397	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	421	U
1	AA	422	C
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	439	A
1	AA	442	C
1	AA	452	A
1	AA	453	A
1	AA	454	C
1	AA	461	A
1	AA	470	C
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	499	A
1	AA	507	C
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	518	C
1	AA	527	G
1	AA	528	C
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	548	G
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	564	C
1	AA	570	G
1	AA	572	A
1	AA	573	A

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Mol	Chain	Res	Type
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	623	C
1	AA	632	A
1	AA	633	G
1	AA	653	A
1	AA	665	A
1	AA	673	G
1	AA	688	G
1	AA	689	C
1	AA	701	C
1	AA	702	A
1	AA	703	G
1	AA	717	C
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	731	G
1	AA	734	G
1	AA	749	C
1	AA	755	G
1	AA	765	G
1	AA	772	U
1	AA	777	A
1	AA	786	G
1	AA	793	U
1	AA	794	A
1	AA	816	A
1	AA	817	C
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	872	A
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A

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Mol	Chain	Res	Type
1	AA	946	A
1	AA	950	U
1	AA	960	U
1	AA	961	U
1	AA	962	C
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	980	C
1	AA	981	U
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	996	A
1	AA	1026	G
1	AA	1030	C
1	AA	1050	G
1	AA	1051	C
1	AA	1054	C
1	AA	1064	G
1	AA	1085	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1127	G
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1137	C
1	AA	1138	G

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Mol	Chain	Res	Type
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1152	A
1	AA	1154	G
1	AA	1158	C
1	AA	1159	U
1	AA	1180	A
1	AA	1184	G
1	AA	1190	G
1	AA	1191	A
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1227	A
1	AA	1229	A
1	AA	1230	C
1	AA	1238	A
1	AA	1240	U
1	AA	1256	A
1	AA	1257	U
1	AA	1267	C
1	AA	1268	A
1	AA	1270	C
1	AA	1281	U
1	AA	1284	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1324	A

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Mol	Chain	Res	Type
1	AA	1327	C
1	AA	1331	G
1	AA	1335	C
1	AA	1336	C
1	AA	1346	A
1	AA	1347	G
1	AA	1348	U
1	AA	1353	G
1	AA	1359	C
1	AA	1363	C
1	AA	1363(A)	A
1	AA	1364	U
1	AA	1387	G
1	AA	1397	C
1	AA	1398	A
1	AA	1400	C
1	AA	1402	C
1	AA	1408	A
1	AA	1419	G
1	AA	1430	C
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1487	G
1	AA	1489	G
1	AA	1491	G
1	AA	1493	A
1	AA	1494	G
1	AA	1495	U
1	AA	1496	C
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1520	G
1	AA	1529	G

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Mol	Chain	Res	Type
1	AA	1530	G
22	AV	2	G
22	AV	3	C
22	AV	4	G
22	AV	5	G
22	AV	8	U
22	AV	9	G
22	AV	13	C
22	AV	15	G
22	AV	16	C
22	AV	17	C
22	AV	17(A)	U
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	24	U
22	AV	25	C
22	AV	27	U
22	AV	28	C
22	AV	33	U
22	AV	44	A
22	AV	45	G
22	AV	48	C
22	AV	53	G
22	AV	54	U
22	AV	58	A
22	AV	59	A
22	AV	60	U
22	AV	61	C
22	AV	62	C
22	AV	63	G
22	AV	65	C
22	AV	67	C
22	AV	71	C
22	AV	72	A
22	AV	73	A
23	AX	12	A
23	AX	14	A
23	AX	15	A
23	AX	17	U
23	AX	19	U

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Mol	Chain	Res	Type
35	BA	9	U
35	BA	10	G
35	BA	45	C
35	BA	50	U
35	BA	61	G
35	BA	71	A
35	BA	72	U
35	BA	74	A
35	BA	75	G
35	BA	82	G
35	BA	83	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	92	A
35	BA	94	C
35	BA	95	G
35	BA	100	G
35	BA	102	G
35	BA	105	C
35	BA	118	A
35	BA	119	A
35	BA	120	U
35	BA	122	G
35	BA	139(A)	G
35	BA	141	A
35	BA	146	G
35	BA	149	A
35	BA	155	U
35	BA	181	A
35	BA	196	A
35	BA	197	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	227	A
35	BA	228	A

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Mol	Chain	Res	Type
35	BA	229	A
35	BA	233	A
35	BA	244	A
35	BA	245	G
35	BA	248	G
35	BA	261	G
35	BA	267	C
35	BA	271(I)	G
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(M)	G
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(R)	G
35	BA	272(A)	U
35	BA	272(B)	G
35	BA	272(I)	U
35	BA	276	A
35	BA	284	U
35	BA	307	G
35	BA	310	A
35	BA	311	A
35	BA	312	G
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	343	C
35	BA	349	G
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	358	U
35	BA	362	U
35	BA	363(D)	G
35	BA	363(E)	U
35	BA	363(F)	A
35	BA	371	A
35	BA	386	G
35	BA	387	U
35	BA	388	G
35	BA	390	A

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Mol	Chain	Res	Type
35	BA	396	G
35	BA	405	U
35	BA	406	G
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	435	C
35	BA	444	C
35	BA	448	U
35	BA	451	C
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	472	A
35	BA	473	G
35	BA	480	A
35	BA	481	G
35	BA	494	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	525	U
35	BA	527	C
35	BA	530	G
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	537	C
35	BA	556	G
35	BA	563	G
35	BA	573	G
35	BA	574	C
35	BA	575	A
35	BA	586	A
35	BA	588	U
35	BA	603	A
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	614(C)	A
35	BA	615	G

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Mol	Chain	Res	Type
35	BA	616	G
35	BA	622	G
35	BA	627	A
35	BA	629	G
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(L)	G
35	BA	654(M)	C
35	BA	655	A
35	BA	656	G
35	BA	669	G
35	BA	670	A
35	BA	673	C
35	BA	686	G
35	BA	708	C
35	BA	709	U
35	BA	721	C
35	BA	722	A
35	BA	730	C
35	BA	753	C
35	BA	765	G
35	BA	776	G
35	BA	781	A
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	786	C
35	BA	788	A
35	BA	789	A
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	805	G
35	BA	806	C
35	BA	812	C
35	BA	819	A
35	BA	827	U

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Mol	Chain	Res	Type
35	BA	828	U
35	BA	829	A
35	BA	830	G
35	BA	831	G
35	BA	846	C
35	BA	848	G
35	BA	854	G
35	BA	857	C
35	BA	859	G
35	BA	866	A
35	BA	872	A
35	BA	878	A
35	BA	879	G
35	BA	885	C
35	BA	886	C
35	BA	887	A
35	BA	888	C
35	BA	889	C
35	BA	890	A
35	BA	895	U
35	BA	896	A
35	BA	897	C
35	BA	898	C
35	BA	899	A
35	BA	901	A
35	BA	907	U
35	BA	910	A
35	BA	915	C
35	BA	917	A
35	BA	926	A
35	BA	932	G
35	BA	933	A
35	BA	941	A
35	BA	945	A
35	BA	958	U
35	BA	959	A
35	BA	961	C
35	BA	962	G
35	BA	973	A
35	BA	974	G
35	BA	975	C
35	BA	975(A)	G

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Mol	Chain	Res	Type
35	BA	983	A
35	BA	989	G
35	BA	990	A
35	BA	991	C
35	BA	996	A
35	BA	1005	C
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1022	G
35	BA	1025	G
35	BA	1026	U
35	BA	1027	A
35	BA	1035	U
35	BA	1039	G
35	BA	1044	G
35	BA	1045	A
35	BA	1046	A
35	BA	1047	G
35	BA	1048	A
35	BA	1053	C
35	BA	1059	G
35	BA	1060	U
35	BA	1061	U
35	BA	1062	G
35	BA	1065	U
35	BA	1067	A
35	BA	1068	G
35	BA	1069	A
35	BA	1070	A
35	BA	1071	G
35	BA	1072	C
35	BA	1073	A
35	BA	1088	A
35	BA	1103	A
35	BA	1107	G
35	BA	1108	U
35	BA	1111	A
35	BA	1112	G
35	BA	1117	G
35	BA	1129	A
35	BA	1130	U

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Mol	Chain	Res	Type
35	BA	1135	C
35	BA	1136	G
35	BA	1142(A)	A
35	BA	1143	A
35	BA	1155	A
35	BA	1161	C
35	BA	1167	U
35	BA	1171	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1178	C
35	BA	1204	A
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1221	C
35	BA	1223	G
35	BA	1227	G
35	BA	1236	G
35	BA	1237	A
35	BA	1240	U
35	BA	1241	A
35	BA	1244	G
35	BA	1247	A
35	BA	1248	G
35	BA	1253	A
35	BA	1256	G
35	BA	1265	A
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U
35	BA	1274	A
35	BA	1292	U
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1314	C
35	BA	1319	G
35	BA	1321	A
35	BA	1332	G

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Mol	Chain	Res	Type
35	BA	1349	A
35	BA	1352	U
35	BA	1359	A
35	BA	1365	A
35	BA	1367	A
35	BA	1368	G
35	BA	1378	A
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G
35	BA	1386	C
35	BA	1396	U
35	BA	1398	C
35	BA	1406	U
35	BA	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1419	A
35	BA	1420	U
35	BA	1421	G
35	BA	1427	A
35	BA	1428	C
35	BA	1436	G
35	BA	1445	A
35	BA	1449	A
35	BA	1450	G
35	BA	1451	C
35	BA	1455	G
35	BA	1460	A
35	BA	1467	C
35	BA	1471	A
35	BA	1475	G
35	BA	1478	G
35	BA	1482	G
35	BA	1485	G
35	BA	1490	A
35	BA	1493	C
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1499	C

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Mol	Chain	Res	Type
35	BA	1502	C
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1514	U
35	BA	1517	G
35	BA	1518	U
35	BA	1520	G
35	BA	1528(A)	A
35	BA	1529	G
35	BA	1536	C
35	BA	1541	G
35	BA	1542	A
35	BA	1543	C
35	BA	1544	A
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1588	C
35	BA	1591	G
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1614	A
35	BA	1615	C
35	BA	1616	A
35	BA	1617	C
35	BA	1640	C
35	BA	1648	C
35	BA	1654	A
35	BA	1666	G
35	BA	1667	G
35	BA	1674	G
35	BA	1690	A
35	BA	1694	C
35	BA	1698	A

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Mol	Chain	Res	Type
35	BA	1699	G
35	BA	1717	G
35	BA	1718	G
35	BA	1721	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1742	G
35	BA	1744	C
35	BA	1748	G
35	BA	1756	G
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1781	C
35	BA	1787	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1801	G
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1829	A
35	BA	1835	G
35	BA	1838	C
35	BA	1839	G
35	BA	1845	G
35	BA	1847	A
35	BA	1848	A
35	BA	1858	G
35	BA	1865	G
35	BA	1866	C
35	BA	1878	G
35	BA	1881	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1893	C
35	BA	1894	C

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Mol	Chain	Res	Type
35	BA	1895	C
35	BA	1900	A
35	BA	1901	A
35	BA	1907	G
35	BA	1909	C
35	BA	1911	U
35	BA	1912	A
35	BA	1913	A
35	BA	1914	C
35	BA	1915	U
35	BA	1916	A
35	BA	1920	C
35	BA	1921	G
35	BA	1924	C
35	BA	1925	C
35	BA	1926	U
35	BA	1927	A
35	BA	1928	A
35	BA	1929	G
35	BA	1930	G
35	BA	1936	A
35	BA	1937	A
35	BA	1938	A
35	BA	1940	U
35	BA	1948	G
35	BA	1955	U
35	BA	1963	U
35	BA	1964	G
35	BA	1965	C
35	BA	1967	C
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1981	A
35	BA	1982	C
35	BA	1987	G
35	BA	1992	G
35	BA	1993	U
35	BA	1997	G
35	BA	2023	G
35	BA	2031	A
35	BA	2032	G

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Mol	Chain	Res	Type
35	BA	2033	A
35	BA	2034	U
35	BA	2035	G
35	BA	2036	C
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2077	A
35	BA	2093	G
35	BA	2100	G
35	BA	2102	U
35	BA	2103	C
35	BA	2104	G
35	BA	2105	C
35	BA	2107	C
35	BA	2109	U
35	BA	2111	C
35	BA	2112	G
35	BA	2113	U
35	BA	2116	G
35	BA	2117	A
35	BA	2118	U
35	BA	2127	G
35	BA	2129	C
35	BA	2131	G
35	BA	2132	U
35	BA	2133	G
35	BA	2145	C
35	BA	2146	C
35	BA	2147	G
35	BA	2156	G
35	BA	2159	G
35	BA	2160	G
35	BA	2172	U
35	BA	2173	A
35	BA	2174	C
35	BA	2178	C
35	BA	2179	C

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Mol	Chain	Res	Type
35	BA	2180	U
35	BA	2185	C
35	BA	2186	G
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2207	G
35	BA	2208	A
35	BA	2218	U
35	BA	2219	G
35	BA	2225	A
35	BA	2238	G
35	BA	2239	G
35	BA	2243	U
35	BA	2245	U
35	BA	2268	A
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2288	A
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2311	A
35	BA	2312	U
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2331	G
35	BA	2334	G
35	BA	2336	A
35	BA	2347	C
35	BA	2350	C
35	BA	2354	G
35	BA	2361	A
35	BA	2379	G
35	BA	2383	G

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Mol	Chain	Res	Type
35	BA	2385	C
35	BA	2391	G
35	BA	2392	A
35	BA	2394	C
35	BA	2395	C
35	BA	2399	G
35	BA	2401	U
35	BA	2402	C
35	BA	2423	U
35	BA	2424	C
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2472	G
35	BA	2475	C
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2483	C
35	BA	2499	C
35	BA	2502	G
35	BA	2505	G
35	BA	2518	A
35	BA	2520	C
35	BA	2524	G
35	BA	2529	G
35	BA	2543	G
35	BA	2554	U
35	BA	2561	A
35	BA	2566	A
35	BA	2567	G
35	BA	2572	A
35	BA	2576	G
35	BA	2577	A

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Mol	Chain	Res	Type
35	BA	2578	G
35	BA	2602	A
35	BA	2610	C
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2641	G
35	BA	2646	C
35	BA	2654	A
35	BA	2657	A
35	BA	2673	G
35	BA	2675	A
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2714	G
35	BA	2720	U
35	BA	2726	U
35	BA	2748	A
35	BA	2750	A
35	BA	2751	G
35	BA	2752	C
35	BA	2757	A
35	BA	2758	A
35	BA	2761	G
35	BA	2762	G
35	BA	2763	G
35	BA	2765	A
35	BA	2778	A
35	BA	2779	U
35	BA	2780	G
35	BA	2781	A
35	BA	2787	C
35	BA	2789	C
35	BA	2790	A
35	BA	2791	C

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Mol	Chain	Res	Type
35	BA	2794	C
35	BA	2799	C
35	BA	2801	A
35	BA	2801(A)	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2818	G
35	BA	2820	A
35	BA	2821	A
35	BA	2823	A
35	BA	2825	C
35	BA	2830	G
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U
35	BA	2850	A
35	BA	2858	C
35	BA	2861	G
35	BA	2872	G
35	BA	2873	A
35	BA	2879	C
35	BA	2894	G
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	17	C
36	BB	21	G
36	BB	25	A
36	BB	27	C
36	BB	35	U
36	BB	40	U
36	BB	41	U
36	BB	42	C
36	BB	43	C
36	BB	45	A
36	BB	53	A
36	BB	56	G
36	BB	57	A
36	BB	68	C

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Mol	Chain	Res	Type
36	BB	73	A
36	BB	74	U
36	BB	81	G
36	BB	88	C
36	BB	91	C
36	BB	110	G

All (135) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	49	U
1	AA	60	A
1	AA	79	G
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	197	A
1	AA	202	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	274	A
1	AA	344	A
1	AA	351	G
1	AA	388	G
1	AA	412	A
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	495	A
1	AA	508	C
1	AA	530	G
1	AA	547	A
1	AA	560	U
1	AA	575	G
1	AA	576	G
1	AA	687	A
1	AA	703	G
1	AA	748	C
1	AA	792	A
1	AA	870	U

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Mol	Chain	Res	Type
1	AA	961	U
1	AA	968	A
1	AA	980	C
1	AA	982	U
1	AA	992	U
1	AA	1049	U
1	AA	1050	G
1	AA	1053	G
1	AA	1101	A
1	AA	1124	G
1	AA	1139	G
1	AA	1157	A
1	AA	1190	G
1	AA	1200	C
1	AA	1239	A
1	AA	1283	G
1	AA	1285	A
1	AA	1286	A
1	AA	1319	A
1	AA	1320	C
1	AA	1326	C
1	AA	1347	G
1	AA	1399	C
1	AA	1452	C
1	AA	1498	U
1	AA	1504	G
22	AV	17(A)	U
22	AV	26	G
22	AV	53	G
35	BA	50	U
35	BA	71	A
35	BA	74	A
35	BA	177	G
35	BA	199	A
35	BA	214	G
35	BA	221	A
35	BA	331	A
35	BA	332	A
35	BA	370	G
35	BA	387	U
35	BA	434	U
35	BA	472	A

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Mol	Chain	Res	Type
35	BA	587	C
35	BA	603	A
35	BA	613	G
35	BA	614(C)	A
35	BA	654(K)	C
35	BA	752	A
35	BA	790	C
35	BA	829	A
35	BA	856	C
35	BA	886	C
35	BA	896	A
35	BA	945	A
35	BA	1052	C
35	BA	1060	U
35	BA	1068	G
35	BA	1069	A
35	BA	1177	A
35	BA	1210	A
35	BA	1300	U
35	BA	1301	A
35	BA	1378	A
35	BA	1396	U
35	BA	1427	A
35	BA	1517	G
35	BA	1541	G
35	BA	1558	A
35	BA	1608	A
35	BA	1616	A
35	BA	1653	G
35	BA	1666	G
35	BA	1748	G
35	BA	1756	G
35	BA	1799	G
35	BA	1819	A
35	BA	1908	C
35	BA	1924	C
35	BA	1937	A
35	BA	1938	A
35	BA	1948	G
35	BA	1970	A
35	BA	1992	G
35	BA	1996	C

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Mol	Chain	Res	Type
35	BA	2033	A
35	BA	2035	G
35	BA	2110	G
35	BA	2126	A
35	BA	2128	C
35	BA	2131	G
35	BA	2179	C
35	BA	2238	G
35	BA	2282	G
35	BA	2422	A
35	BA	2481	G
35	BA	2497	A
35	BA	2543	G
35	BA	2610	C
35	BA	2689	U
35	BA	2756	U
35	BA	2762	G
35	BA	2801	A
36	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](#)

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
58	GCP	AY	1000	-	26,34,34	2.81	7 (26%)	31,54,54	1.90	8 (25%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
58	GCP	AY	1000	-	-	13/18/38/38	0/3/3/3

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	AY	1000	GCP	C6-N1	9.05	1.47	1.33
58	AY	1000	GCP	PB-O3A	5.84	1.64	1.58
58	AY	1000	GCP	C4-N9	-5.77	1.40	1.47
58	AY	1000	GCP	C5-C6	-5.19	1.43	1.52
58	AY	1000	GCP	PG-O2G	-2.81	1.48	1.54
58	AY	1000	GCP	PG-O1G	2.24	1.54	1.50
58	AY	1000	GCP	PG-O3G	-2.10	1.50	1.54

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	AY	1000	GCP	C4-C5-N7	6.84	111.53	102.46
58	AY	1000	GCP	O6-C6-C5	2.71	125.39	119.86
58	AY	1000	GCP	O3G-PG-O1G	-2.67	105.32	112.39
58	AY	1000	GCP	O3G-PG-O2G	2.66	115.84	108.08
58	AY	1000	GCP	C5-C6-N1	-2.64	114.93	118.19
58	AY	1000	GCP	PA-O3A-PB	-2.47	124.74	132.56
58	AY	1000	GCP	O2G-PG-O1G	-2.37	106.11	112.39
58	AY	1000	GCP	O6-C6-N1	-2.24	119.68	122.69

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
58	AY	1000	GCP	PB-C3B-PG-O1G
58	AY	1000	GCP	PB-C3B-PG-O2G
58	AY	1000	GCP	PG-C3B-PB-O1B
58	AY	1000	GCP	PG-C3B-PB-O3A

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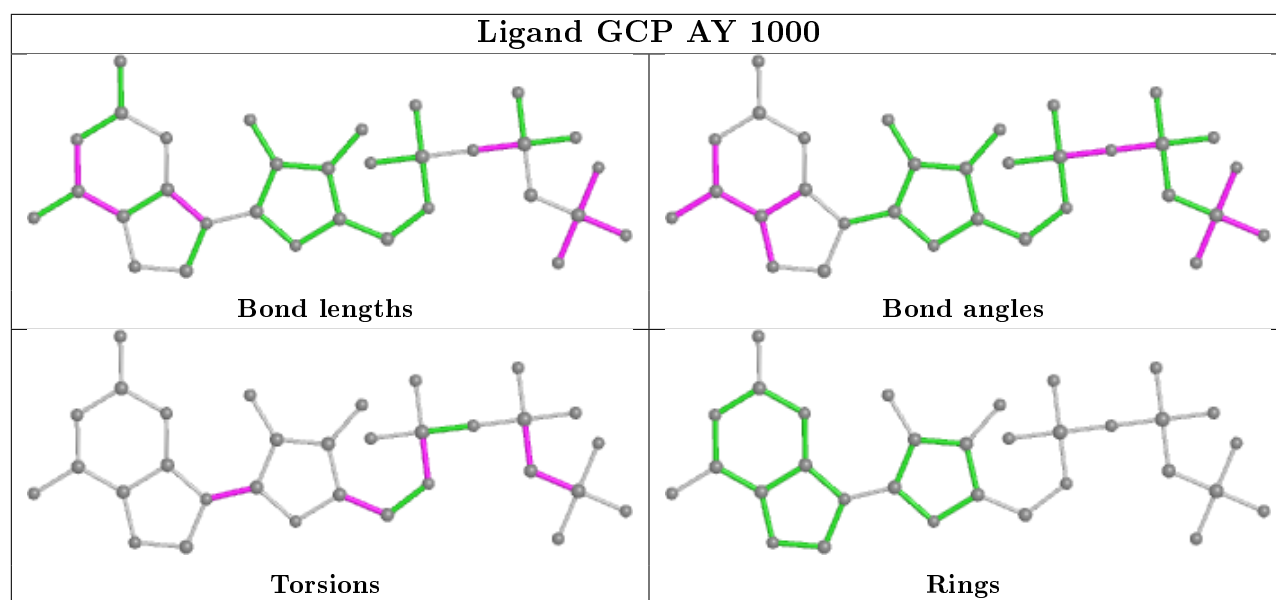
Mol	Chain	Res	Type	Atoms
58	AY	1000	GCP	C5'-O5'-PA-O3A
58	AY	1000	GCP	O4'-C1'-N9-C4
58	AY	1000	GCP	C2'-C1'-N9-C8
58	AY	1000	GCP	C2'-C1'-N9-C4
58	AY	1000	GCP	O4'-C4'-C5'-O5'
58	AY	1000	GCP	C3'-C4'-C5'-O5'
58	AY	1000	GCP	C5'-O5'-PA-O1A
58	AY	1000	GCP	PB-C3B-PG-O3G
58	AY	1000	GCP	PG-C3B-PB-O2B

There are no ring outliers.

1 monomer is involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
58	AY	1000	GCP	11	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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	AY	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AY	444:LEU	C	445:GLN	N	1.12
1	AY	504:ILE	C	505:ALA	N	1.11

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	-0.14	37 (2%) 57 49	52, 140, 199, 200	0
2	AB	235/256 (91%)	-0.44	2 (0%) 84 79	40, 110, 177, 200	0
3	AC	207/239 (86%)	-0.49	2 (0%) 82 76	37, 117, 174, 200	0
4	AD	208/209 (99%)	0.22	13 (6%) 20 15	48, 158, 200, 200	0
5	AE	151/162 (93%)	-0.18	3 (1%) 65 58	38, 112, 171, 200	0
6	AF	101/101 (100%)	-0.60	0 100 100	59, 135, 188, 200	0
7	AG	155/156 (99%)	-0.37	3 (1%) 66 59	46, 128, 189, 200	0
8	AH	138/138 (100%)	-0.10	6 (4%) 35 30	36, 114, 180, 200	0
9	AI	127/128 (99%)	-0.12	2 (1%) 72 64	32, 121, 172, 200	0
10	AJ	99/105 (94%)	0.40	10 (10%) 7 6	32, 125, 191, 200	0
11	AK	119/129 (92%)	-0.10	5 (4%) 36 30	40, 116, 179, 200	0
12	AL	125/135 (92%)	0.24	5 (4%) 38 32	45, 119, 192, 200	0
13	AM	125/126 (99%)	0.29	11 (8%) 10 8	64, 127, 200, 200	0
14	AN	60/61 (98%)	-0.28	0 100 100	28, 104, 172, 200	0
15	AO	88/89 (98%)	0.04	4 (4%) 33 28	59, 130, 188, 200	0
16	AP	84/88 (95%)	1.03	18 (21%) 0 1	79, 156, 200, 200	0
17	AQ	100/105 (95%)	0.70	13 (13%) 3 4	66, 141, 200, 200	0
18	AR	70/88 (79%)	-0.01	2 (2%) 51 42	59, 124, 176, 200	0
19	AS	79/93 (84%)	0.13	4 (5%) 28 24	57, 118, 197, 200	0
20	AT	99/106 (93%)	0.55	10 (10%) 7 6	87, 153, 200, 200	0
21	AU	25/27 (92%)	0.70	4 (16%) 1 2	46, 117, 175, 185	0
22	AV	77/77 (100%)	-0.68	1 (1%) 77 70	77, 151, 189, 199	0
23	AX	9/9 (100%)	0.18	0 100 100	79, 156, 192, 199	0
24	AY	496/529 (93%)	0.42	51 (10%) 6 6	71, 170, 202, 202	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
25	B0	84/85 (98%)	1.13	18 (21%) 0 1	37, 118, 194, 200	0
26	B1	94/98 (95%)	0.59	8 (8%) 10 9	65, 143, 197, 200	0
27	B2	71/72 (98%)	0.13	7 (9%) 7 6	101, 153, 200, 200	0
28	B3	60/60 (100%)	0.68	6 (10%) 7 6	54, 126, 198, 200	0
29	B4	45/71 (63%)	-0.05	3 (6%) 17 14	108, 174, 200, 200	0
30	B5	59/60 (98%)	0.40	8 (13%) 3 3	62, 150, 200, 200	0
31	B6	50/54 (92%)	0.79	10 (20%) 1 1	62, 139, 186, 200	0
32	B7	49/49 (100%)	0.56	5 (10%) 6 6	78, 153, 197, 200	0
33	B8	64/65 (98%)	0.13	2 (3%) 49 40	66, 129, 179, 200	0
34	B9	37/37 (100%)	1.39	11 (29%) 0 0	71, 142, 178, 194	0
35	BA	2901/2915 (99%)	0.09	112 (3%) 39 32	51, 159, 201, 202	0
36	BB	119/122 (97%)	-0.48	0 100 100	66, 123, 172, 190	0
37	BC	228/229 (99%)	2.01	89 (39%) 0 0	87, 182, 200, 200	0
38	BD	275/276 (99%)	0.15	21 (7%) 13 11	40, 117, 175, 200	0
39	BE	205/206 (99%)	0.19	18 (8%) 10 8	51, 143, 199, 200	0
40	BF	208/210 (99%)	0.51	29 (13%) 2 3	51, 156, 200, 200	0
41	BG	181/182 (99%)	-0.08	4 (2%) 62 54	47, 134, 194, 200	0
42	BH	156/180 (86%)	0.30	12 (7%) 13 11	78, 165, 200, 200	0
43	BJ	1/173 (0%)	3.32	1 (100%) 0 0	174, 174, 174, 174	0
44	BK	0/147	-	-	-	-
45	BN	139/140 (99%)	0.01	2 (1%) 75 68	69, 131, 190, 200	0
46	BO	122/122 (100%)	0.47	15 (12%) 4 4	59, 133, 198, 200	0
47	BP	146/150 (97%)	0.86	22 (15%) 2 2	65, 147, 200, 200	0
48	BQ	141/141 (100%)	0.05	7 (4%) 28 25	20, 107, 171, 200	0
49	BR	117/118 (99%)	0.80	20 (17%) 1 1	81, 169, 200, 200	0
50	BS	99/112 (88%)	0.05	9 (9%) 9 7	49, 123, 194, 200	0
51	BT	138/146 (94%)	0.51	21 (15%) 2 2	89, 162, 200, 200	0
52	BU	117/118 (99%)	-0.05	3 (2%) 56 47	47, 121, 179, 200	0
53	BV	101/101 (100%)	0.82	17 (16%) 1 2	42, 146, 200, 200	0
54	BW	113/113 (100%)	1.30	35 (30%) 0 0	78, 165, 200, 200	0
55	BX	93/96 (96%)	1.10	23 (24%) 0 0	38, 167, 200, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
56	BY	101/110 (91%)	1.53	32 (31%) 0 0	86, 169, 200, 200	0
57	BZ	176/206 (85%)	-0.29	1 (0%) 89 85	43, 122, 195, 200	0
All	All	10971/11642 (94%)	0.18	777 (7%) 16 12	20, 146, 200, 202	0

All (777) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
37	BC	165	ASN	14.2
37	BC	173	ALA	12.2
37	BC	216	THR	11.9
28	B3	1	MET	11.0
24	AY	349	MET	10.9
54	BW	94	ASP	10.3
37	BC	207	THR	10.1
40	BF	208	GLY	9.8
25	B0	3	HIS	9.7
35	BA	654(K)	C	9.2
13	AM	126	LYS	8.9
56	BY	8	LYS	8.9
56	BY	32	PRO	8.8
8	AH	131	GLY	8.8
13	AM	125	ARG	8.7
20	AT	9	ASN	8.5
39	BE	158	GLY	8.5
35	BA	1065	U	8.4
37	BC	35	ALA	8.4
1	AA	89	C	8.2
35	BA	1066	U	8.2
37	BC	36	LYS	8.2
10	AJ	100	THR	8.0
51	BT	117	ASP	8.0
37	BC	95	GLY	7.9
37	BC	17	ASN	7.8
56	BY	5	MET	7.8
56	BY	6	HIS	7.7
37	BC	1	PRO	7.7
47	BP	83	VAL	7.6
13	AM	124	PRO	7.6
37	BC	24	GLU	7.6
35	BA	2802	G	7.6
56	BY	7	VAL	7.5

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Mol	Chain	Res	Type	RSRZ
24	AY	139	THR	7.4
31	B6	46	HIS	7.4
51	BT	2	ASN	7.4
34	B9	1	MET	7.2
37	BC	15	ASP	7.1
47	BP	84	ASN	7.1
37	BC	150	GLY	7.0
24	AY	111	MET	7.0
37	BC	219	GLY	7.0
55	BX	79	ALA	7.0
46	BO	75	SER	7.0
13	AM	123	ALA	6.9
35	BA	1067	A	6.9
24	AY	37	GLY	6.9
56	BY	3	VAL	6.7
24	AY	36	PHE	6.7
35	BA	275	G	6.7
25	B0	2	ALA	6.7
35	BA	654(H)	G	6.6
55	BX	81	VAL	6.6
56	BY	35	TYR	6.6
21	AU	26	LYS	6.6
42	BH	158	HIS	6.6
37	BC	217	THR	6.5
25	B0	6	GLY	6.5
35	BA	1090	U	6.5
55	BX	53	LYS	6.4
35	BA	34	C	6.4
24	AY	108	CYS	6.4
24	AY	109	CYS	6.4
49	BR	112	ALA	6.3
37	BC	206	GLY	6.3
37	BC	200	LYS	6.2
46	BO	76	ALA	6.2
10	AJ	3	LYS	6.2
35	BA	508	G	6.1
24	AY	362	GLY	6.0
37	BC	199	HIS	6.0
4	AD	125	HIS	5.9
35	BA	2894	G	5.9
54	BW	93	ALA	5.9
24	AY	138	LEU	5.9

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Mol	Chain	Res	Type	RSRZ
24	AY	342	ILE	5.8
38	BD	36	PRO	5.8
42	BH	58	GLU	5.8
37	BC	16	PRO	5.8
24	AY	62	MET	5.8
53	BV	68	LYS	5.7
35	BA	1078	U	5.7
25	B0	5	LYS	5.7
56	BY	2	ARG	5.7
37	BC	209	LEU	5.6
24	AY	66	ARG	5.6
35	BA	1076	C	5.6
56	BY	4	LYS	5.6
35	BA	654(E)	G	5.6
55	BX	54	VAL	5.5
37	BC	184	LYS	5.5
37	BC	79	LYS	5.5
37	BC	201	PRO	5.5
51	BT	118	ARG	5.5
47	BP	88	LEU	5.5
40	BF	152	GLU	5.4
47	BP	116	GLY	5.4
51	BT	1	MET	5.4
37	BC	148	ASN	5.4
5	AE	29	GLY	5.4
24	AY	17	ALA	5.3
37	BC	181	PRO	5.3
35	BA	1534	U	5.3
37	BC	220	PRO	5.3
35	BA	1546	C	5.2
37	BC	83	ILE	5.2
37	BC	210	ARG	5.2
13	AM	117	VAL	5.2
56	BY	59	GLY	5.2
41	BG	49	ASP	5.1
37	BC	179	SER	5.1
40	BF	207	GLY	5.1
37	BC	85	GLU	5.1
51	BT	115	ARG	5.0
32	B7	42	LEU	5.0
55	BX	56	THR	4.9
35	BA	33	U	4.9

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Mol	Chain	Res	Type	RSRZ
37	BC	88	GLU	4.9
37	BC	118	ASP	4.9
37	BC	96	GLY	4.9
54	BW	1	MET	4.9
35	BA	1575	C	4.8
35	BA	2895	U	4.8
24	AY	253	PRO	4.8
46	BO	103	ALA	4.8
37	BC	174	PRO	4.8
47	BP	15	ARG	4.7
34	B9	37	GLY	4.7
17	AQ	74	LEU	4.7
35	BA	654(S)	G	4.7
1	AA	96	U	4.7
40	BF	78	ILE	4.7
16	AP	32	TYR	4.7
35	BA	2801	A	4.7
47	BP	82	GLY	4.7
39	BE	114	ALA	4.7
37	BC	228	SER	4.6
37	BC	198	ALA	4.6
52	BU	90	VAL	4.6
24	AY	350	ALA	4.6
35	BA	1075	C	4.6
30	B5	60	VAL	4.5
19	AS	82	GLY	4.5
37	BC	215	THR	4.5
35	BA	654(V)	A	4.5
37	BC	80	GLY	4.5
37	BC	149	ILE	4.5
1	AA	82	U	4.5
13	AM	116	THR	4.5
54	BW	10	VAL	4.5
28	B3	2	PRO	4.5
40	BF	172	TRP	4.4
20	AT	104	LEU	4.4
38	BD	8	PRO	4.4
35	BA	2629	A	4.4
16	AP	22	THR	4.4
30	B5	30	LEU	4.4
35	BA	1276	A	4.4
37	BC	94	VAL	4.4

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Mol	Chain	Res	Type	RSRZ
54	BW	74	ALA	4.4
17	AQ	33	GLY	4.4
1	AA	88	A	4.3
56	BY	29	GLU	4.3
55	BX	80	ILE	4.3
35	BA	654(U)	A	4.3
39	BE	157	ALA	4.3
40	BF	79	GLY	4.3
50	BS	37	ALA	4.3
20	AT	8	ARG	4.3
35	BA	1574	C	4.3
30	B5	58	LEU	4.3
1	AA	619	U	4.2
56	BY	52	SER	4.2
35	BA	1077	A	4.2
55	BX	34	ALA	4.2
35	BA	2789	C	4.2
35	BA	1420	U	4.2
35	BA	654(D)	G	4.2
37	BC	130	ILE	4.2
38	BD	276	LYS	4.2
48	BQ	95	ALA	4.2
10	AJ	5	ARG	4.2
54	BW	2	GLU	4.2
55	BX	52	VAL	4.2
51	BT	116	ALA	4.1
35	BA	1274	A	4.1
16	AP	17	TYR	4.1
13	AM	122	LYS	4.1
35	BA	1543	C	4.1
37	BC	86	ALA	4.1
37	BC	211	SER	4.1
42	BH	167	GLU	4.1
54	BW	24	ILE	4.1
27	B2	72	ALA	4.1
53	BV	56	SER	4.1
20	AT	42	GLN	4.1
26	B1	15	ALA	4.0
51	BT	49	VAL	4.0
16	AP	37	GLY	4.0
38	BD	9	TYR	4.0
24	AY	65	GLN	4.0

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Mol	Chain	Res	Type	RSRZ
31	B6	54	ILE	4.0
40	BF	46	ARG	4.0
54	BW	11	ARG	4.0
37	BC	208	PHE	4.0
1	AA	93	G	4.0
18	AR	19	LYS	4.0
29	B4	44	THR	4.0
37	BC	218	MET	4.0
56	BY	31	LEU	4.0
35	BA	654(L)	G	3.9
37	BC	116	THR	3.9
10	AJ	77	PRO	3.9
16	AP	18	ARG	3.9
24	AY	356	VAL	3.9
24	AY	343	SER	3.9
39	BE	159	HIS	3.9
1	AA	97	G	3.9
56	BY	80	GLY	3.9
25	B0	7	LEU	3.9
34	B9	15	LYS	3.9
35	BA	1091	G	3.8
37	BC	89	ALA	3.8
39	BE	73	GLU	3.8
56	BY	30	VAL	3.8
35	BA	654(T)	C	3.8
10	AJ	101	VAL	3.8
11	AK	11	LYS	3.8
28	B3	12	PRO	3.8
38	BD	269	PHE	3.8
47	BP	118	GLY	3.8
24	AY	19	ILE	3.8
37	BC	12	GLU	3.8
51	BT	94	ALA	3.7
40	BF	147	GLY	3.7
49	BR	3	HIS	3.7
56	BY	79	CYS	3.7
35	BA	1647	G	3.7
56	BY	36	ALA	3.7
37	BC	20	TYR	3.7
18	AR	23	LYS	3.7
20	AT	64	ASP	3.7
37	BC	226	PRO	3.7

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Mol	Chain	Res	Type	RSRZ
50	BS	74	ALA	3.6
34	B9	28	GLU	3.6
52	BU	91	ASP	3.6
1	AA	142	G	3.6
47	BP	102	ARG	3.6
27	B2	68	ARG	3.6
35	BA	654(I)	C	3.6
37	BC	164	ARG	3.6
42	BH	59	ARG	3.6
35	BA	676	A	3.6
40	BF	51	THR	3.6
53	BV	70	ILE	3.6
16	AP	6	LEU	3.6
24	AY	367	LEU	3.6
3	AC	149	ALA	3.5
40	BF	28	ILE	3.5
35	BA	1277	G	3.5
51	BT	99	LEU	3.5
37	BC	38	ASP	3.5
4	AD	135	LEU	3.5
49	BR	6	SER	3.5
37	BC	48	GLY	3.5
11	AK	129	SER	3.5
35	BA	271(A)	A	3.5
51	BT	114	LEU	3.5
56	BY	72	VAL	3.5
56	BY	69	ALA	3.5
56	BY	33	LYS	3.5
1	AA	620	C	3.5
24	AY	389	GLY	3.5
42	BH	110	SER	3.5
47	BP	95	VAL	3.5
54	BW	72	LYS	3.5
34	B9	34	GLN	3.5
53	BV	26	ASP	3.5
56	BY	51	VAL	3.5
47	BP	81	GLN	3.4
47	BP	87	ASP	3.4
37	BC	61	THR	3.4
39	BE	131	ALA	3.4
42	BH	74	ASN	3.4
35	BA	2712(A)	A	3.4

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Mol	Chain	Res	Type	RSRZ
55	BX	78	LYS	3.4
55	BX	35	THR	3.4
46	BO	30	ALA	3.4
1	AA	81	U	3.4
7	AG	80	VAL	3.4
15	AO	48	LYS	3.4
35	BA	654(P)	C	3.4
13	AM	16	ASP	3.4
56	BY	9	LYS	3.4
49	BR	36	THR	3.4
35	BA	1064	C	3.4
37	BC	121	GLY	3.3
30	B5	59	GLU	3.3
54	BW	85	VAL	3.3
24	AY	358	GLU	3.3
40	BF	151	SER	3.3
47	BP	108	LYS	3.3
24	AY	77	PHE	3.3
43	BJ	85	LEU	3.3
38	BD	47	GLY	3.3
53	BV	50	PRO	3.3
35	BA	1360	A	3.3
56	BY	28	LYS	3.3
37	BC	34	THR	3.3
54	BW	103	ILE	3.3
35	BA	654(C)	G	3.3
27	B2	71	ASN	3.3
35	BA	2892	A	3.3
40	BF	47	GLY	3.3
49	BR	35	THR	3.3
16	AP	59	TRP	3.3
10	AJ	4	ILE	3.3
38	BD	275	LYS	3.3
2	AB	7	VAL	3.3
35	BA	1094	U	3.2
54	BW	22	ASP	3.2
25	B0	52	GLY	3.2
38	BD	102	LYS	3.2
37	BC	14	VAL	3.2
16	AP	7	ALA	3.2
51	BT	93	ARG	3.2
31	B6	13	CYS	3.2

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Mol	Chain	Res	Type	RSRZ
40	BF	58	ALA	3.2
37	BC	203	GLY	3.2
1	AA	1257	U	3.2
55	BX	67	GLY	3.2
1	AA	328	C	3.2
55	BX	61	GLY	3.2
47	BP	125	VAL	3.2
54	BW	79	GLY	3.2
47	BP	85	LEU	3.2
24	AY	256	PHE	3.2
16	AP	8	ARG	3.2
54	BW	81	ALA	3.2
48	BQ	141	GLN	3.1
31	B6	49	HIS	3.1
30	B5	54	GLY	3.1
35	BA	1618	A	3.1
42	BH	61	HIS	3.1
13	AM	84	ILE	3.1
56	BY	46	LYS	3.1
30	B5	53	ALA	3.1
24	AY	110	LEU	3.1
37	BC	225	ASN	3.1
21	AU	20	LYS	3.1
40	BF	52	LYS	3.1
55	BX	28	PHE	3.1
35	BA	1659	U	3.1
1	AA	216	G	3.1
11	AK	118	GLY	3.1
16	AP	13	HIS	3.1
35	BA	654(G)	C	3.1
26	B1	81	LYS	3.1
51	BT	50	ILE	3.1
24	AY	406	PRO	3.1
35	BA	614(A)	U	3.1
37	BC	115	ALA	3.1
38	BD	101	GLU	3.1
35	BA	2630	G	3.1
1	AA	143	A	3.1
27	B2	8	LYS	3.1
48	BQ	12	GLN	3.0
24	AY	456	GLU	3.0
1	AA	306	G	3.0

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Mol	Chain	Res	Type	RSRZ
35	BA	1752	C	3.0
54	BW	46	PHE	3.0
4	AD	17	VAL	3.0
25	B0	73	GLY	3.0
31	B6	53	LYS	3.0
38	BD	27	THR	3.0
35	BA	1637	A	3.0
53	BV	27	ALA	3.0
37	BC	151	GLU	3.0
37	BC	146	GLY	3.0
54	BW	3	ALA	3.0
35	BA	12	U	3.0
37	BC	41	VAL	3.0
56	BY	38	ILE	3.0
25	B0	8	GLY	3.0
12	AL	120	TYR	3.0
37	BC	166	ASP	3.0
38	BD	147	LEU	3.0
49	BR	26	LYS	3.0
35	BA	1535	A	3.0
46	BO	38	VAL	3.0
7	AG	78	ARG	3.0
55	BX	66	LEU	3.0
35	BA	654(Q)	C	2.9
35	BA	1383	C	2.9
25	B0	74	ARG	2.9
24	AY	115	ALA	2.9
51	BT	87	ASP	2.9
40	BF	59	TYR	2.9
10	AJ	85	LEU	2.9
24	AY	325	TYR	2.9
24	AY	116	ALA	2.9
9	AI	8	GLY	2.9
37	BC	2	LYS	2.9
13	AM	114	ARG	2.9
24	AY	501	LEU	2.9
42	BH	159	GLU	2.9
54	BW	87	PRO	2.9
49	BR	29	LEU	2.9
35	BA	2801(A)	A	2.9
4	AD	162	LEU	2.9
25	B0	39	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
12	AL	122	THR	2.9
35	BA	654(F)	C	2.9
34	B9	2	LYS	2.9
35	BA	115	C	2.9
26	B1	20	ARG	2.9
25	B0	4	LYS	2.9
48	BQ	97	VAL	2.9
32	B7	41	ARG	2.9
35	BA	1536	C	2.9
8	AH	132	GLU	2.9
37	BC	50	ASP	2.9
53	BV	55	ALA	2.9
42	BH	26	VAL	2.9
39	BE	137	HIS	2.9
49	BR	72	ASP	2.9
37	BC	9	ALA	2.8
38	BD	35	LYS	2.8
35	BA	1072	C	2.8
37	BC	134	ARG	2.8
10	AJ	73	ASP	2.8
49	BR	97	VAL	2.8
28	B3	43	ILE	2.8
49	BR	4	LEU	2.8
20	AT	72	LEU	2.8
26	B1	16	ASN	2.8
37	BC	152	ILE	2.8
1	AA	218	C	2.8
49	BR	71	GLN	2.8
17	AQ	75	ARG	2.8
49	BR	2	ARG	2.8
24	AY	162	LEU	2.8
40	BF	12	LEU	2.8
24	AY	199	HIS	2.8
48	BQ	39	PRO	2.8
4	AD	133	VAL	2.8
35	BA	1654	A	2.8
53	BV	19	LYS	2.8
1	AA	1447	A	2.8
37	BC	172	HIS	2.7
24	AY	439	GLY	2.7
47	BP	106	LEU	2.7
54	BW	47	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
37	BC	97	GLU	2.7
53	BV	36	PRO	2.7
54	BW	21	VAL	2.7
46	BO	122	LEU	2.7
40	BF	137	LYS	2.7
39	BE	160	TYR	2.7
56	BY	55	TYR	2.7
37	BC	91	ALA	2.7
50	BS	51	ALA	2.7
17	AQ	32	TYR	2.7
40	BF	23	ASP	2.7
42	BH	111	HIS	2.7
54	BW	86	LEU	2.7
56	BY	82	PRO	2.7
50	BS	73	LEU	2.7
51	BT	113	LYS	2.7
39	BE	149	ARG	2.7
55	BX	59	VAL	2.7
37	BC	55	ASP	2.6
46	BO	26	LYS	2.6
51	BT	100	TYR	2.6
53	BV	12	TYR	2.6
54	BW	80	PRO	2.6
8	AH	100	ILE	2.6
57	BZ	173	ALA	2.6
55	BX	76	ARG	2.6
54	BW	101	SER	2.6
4	AD	138	TYR	2.6
27	B2	66	GLU	2.6
35	BA	414	C	2.6
54	BW	12	ILE	2.6
40	BF	148	LEU	2.6
41	BG	2	PRO	2.6
53	BV	25	LEU	2.6
22	AV	17	C	2.6
35	BA	1761	C	2.6
34	B9	36	GLN	2.6
52	BU	89	GLU	2.6
1	AA	388	G	2.6
35	BA	2125	G	2.6
17	AQ	43	LEU	2.6
24	AY	471	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
26	B1	21	ARG	2.6
54	BW	23	LEU	2.6
17	AQ	73	VAL	2.6
20	AT	71	THR	2.6
30	B5	11	THR	2.6
5	AE	91	LEU	2.6
16	AP	36	ILE	2.6
49	BR	107	ASP	2.6
16	AP	64	ALA	2.6
34	B9	4	ARG	2.6
3	AC	150	LYS	2.5
24	AY	38	GLN	2.5
35	BA	1074	G	2.5
53	BV	11	GLN	2.5
37	BC	205	LYS	2.5
55	BX	39	ILE	2.5
35	BA	2785	C	2.5
39	BE	130	GLY	2.5
54	BW	54	ALA	2.5
7	AG	79	ARG	2.5
24	AY	76	GLN	2.5
1	AA	353	A	2.5
35	BA	2310	A	2.5
31	B6	20	ASN	2.5
25	B0	53	MET	2.5
19	AS	10	PHE	2.5
20	AT	75	ASN	2.5
1	AA	181	G	2.5
17	AQ	31	LEU	2.5
17	AQ	56	VAL	2.5
47	BP	114	ILE	2.5
1	AA	314	C	2.5
41	BG	127	GLY	2.5
20	AT	98	PRO	2.5
55	BX	57	LEU	2.5
47	BP	110	TYR	2.5
24	AY	485	PHE	2.5
35	BA	1641	A	2.5
54	BW	69	LEU	2.5
35	BA	1068	G	2.5
45	BN	77	GLY	2.5
35	BA	1079	C	2.5

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Mol	Chain	Res	Type	RSRZ
37	BC	57	ASN	2.5
38	BD	50	THR	2.5
54	BW	66	GLU	2.5
24	AY	171	TRP	2.5
37	BC	147	PHE	2.5
35	BA	1026	U	2.5
46	BO	61	VAL	2.5
1	AA	151	A	2.4
39	BE	12	THR	2.4
54	BW	65	LEU	2.4
39	BE	69	LYS	2.4
49	BR	111	LEU	2.4
5	AE	9	LYS	2.4
21	AU	25	LYS	2.4
38	BD	45	ASN	2.4
48	BQ	40	ALA	2.4
49	BR	25	ALA	2.4
4	AD	110	PHE	2.4
4	AD	124	GLY	2.4
26	B1	42	GLN	2.4
46	BO	39	ILE	2.4
40	BF	181	LEU	2.4
35	BA	1372	U	2.4
35	BA	1089	G	2.4
13	AM	118	ALA	2.4
41	BG	26	GLN	2.4
56	BY	74	PRO	2.4
1	AA	202	U	2.4
51	BT	91	ARG	2.4
35	BA	512	G	2.4
55	BX	82	GLN	2.4
12	AL	102	ARG	2.4
17	AQ	58	GLU	2.4
24	AY	114	ASP	2.4
33	B8	57	ARG	2.4
38	BD	7	LYS	2.4
24	AY	368	HIS	2.4
40	BF	88	VAL	2.4
24	AY	20	SER	2.4
26	B1	34	THR	2.4
34	B9	16	VAL	2.4
35	BA	2402	C	2.4

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Mol	Chain	Res	Type	RSRZ
35	BA	261	G	2.4
37	BC	18	LYS	2.4
49	BR	13	HIS	2.4
24	AY	348	PHE	2.4
37	BC	37	PHE	2.4
53	BV	69	LYS	2.4
38	BD	183	ARG	2.4
35	BA	407	G	2.4
56	BY	34	LYS	2.4
24	AY	363	ASP	2.4
54	BW	92	ARG	2.4
16	AP	14	ASN	2.4
35	BA	336	C	2.4
55	BX	23	GLU	2.4
19	AS	8	GLY	2.4
37	BC	187	ASP	2.4
25	B0	40	GLN	2.3
37	BC	90	GLY	2.3
33	B8	64	TYR	2.3
32	B7	46	VAL	2.3
56	BY	66	PRO	2.3
29	B4	8	LYS	2.3
37	BC	19	ILE	2.3
8	AH	129	VAL	2.3
30	B5	55	ARG	2.3
35	BA	31	C	2.3
49	BR	98	LEU	2.3
24	AY	313	ASP	2.3
53	BV	81	TYR	2.3
46	BO	27	GLY	2.3
35	BA	956	G	2.3
51	BT	22	PHE	2.3
37	BC	212	VAL	2.3
38	BD	237	GLU	2.3
8	AH	99	GLU	2.3
51	BT	21	GLU	2.3
35	BA	2171	A	2.3
24	AY	369	ASN	2.3
37	BC	53	ARG	2.3
39	BE	113	PHE	2.3
37	BC	23	ASP	2.3
54	BW	4	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	AA	180	U	2.3
35	BA	1211	U	2.3
47	BP	115	LEU	2.3
35	BA	1447	G	2.3
46	BO	71	ARG	2.3
1	AA	223	U	2.3
4	AD	158	ILE	2.3
31	B6	47	THR	2.3
37	BC	122	ALA	2.3
42	BH	148	ILE	2.3
37	BC	58	VAL	2.2
16	AP	35	LYS	2.2
1	AA	229	U	2.2
35	BA	1027	A	2.2
12	AL	20	LYS	2.2
39	BE	112	GLY	2.2
35	BA	10	G	2.2
27	B2	65	ASN	2.2
50	BS	107	GLU	2.2
1	AA	389	A	2.2
39	BE	107	THR	2.2
16	AP	39	TYR	2.2
11	AK	30	VAL	2.2
24	AY	86	LEU	2.2
25	B0	18	ALA	2.2
37	BC	78	ALA	2.2
35	BA	2141	G	2.2
27	B2	60	LEU	2.2
46	BO	121	VAL	2.2
25	B0	45	PHE	2.2
40	BF	139	PHE	2.2
50	BS	88	ASP	2.2
15	AO	31	LEU	2.2
25	B0	28	GLY	2.2
54	BW	78	GLU	2.2
1	AA	585	G	2.2
35	BA	654(J)	A	2.2
25	B0	38	VAL	2.2
1	AA	324	G	2.2
16	AP	73	LEU	2.2
34	B9	35	ARG	2.2
46	BO	50	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
39	BE	27	LEU	2.2
40	BF	126	VAL	2.2
10	AJ	99	LYS	2.2
35	BA	278	A	2.2
31	B6	21	TYR	2.2
35	BA	2803	C	2.2
26	B1	41	ARG	2.2
28	B3	10	LYS	2.2
37	BC	82	LYS	2.2
49	BR	52	ILE	2.2
10	AJ	69	ASN	2.2
35	BA	1448	G	2.2
40	BF	194	MET	2.2
15	AO	47	LYS	2.2
24	AY	477	ALA	2.1
24	AY	314	ARG	2.1
31	B6	50	ARG	2.1
54	BW	98	LYS	2.1
38	BD	251	GLY	2.1
11	AK	41	THR	2.1
29	B4	7	PRO	2.1
35	BA	2126	A	2.1
54	BW	107	LEU	2.1
35	BA	406	G	2.1
39	BE	122	PHE	2.1
35	BA	296	C	2.1
24	AY	18	ILE	2.1
32	B7	31	LEU	2.1
40	BF	149	ASP	2.1
56	BY	45	VAL	2.1
31	B6	39	TYR	2.1
35	BA	515	A	2.1
35	BA	1384	A	2.1
1	AA	203	U	2.1
35	BA	1391	U	2.1
17	AQ	20	THR	2.1
47	BP	130	PHE	2.1
8	AH	130	GLY	2.1
25	B0	46	LYS	2.1
1	AA	1493	A	2.1
1	AA	1129	C	2.1
50	BS	83	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
55	BX	36	LYS	2.1
16	AP	5	ARG	2.1
20	AT	101	GLY	2.1
35	BA	654(N)	G	2.1
42	BH	57	ASP	2.1
12	AL	19	ARG	2.1
37	BC	11	LEU	2.1
40	BF	150	GLY	2.1
55	BX	65	ARG	2.1
35	BA	1549	C	2.1
38	BD	26	LYS	2.1
50	BS	35	ILE	2.1
56	BY	73	ARG	2.1
46	BO	25	LEU	2.1
35	BA	1093	G	2.1
35	BA	1272	A	2.1
24	AY	497	GLY	2.1
38	BD	223	GLY	2.1
45	BN	47	ALA	2.1
34	B9	3	VAL	2.1
47	BP	117	GLU	2.1
35	BA	1020	A	2.1
35	BA	1275	A	2.1
35	BA	1664	A	2.1
46	BO	94	ARG	2.1
51	BT	27	THR	2.1
17	AQ	79	SER	2.0
35	BA	946	G	2.0
37	BC	158	ALA	2.0
40	BF	21	ALA	2.0
49	BR	90	ARG	2.0
35	BA	2690	C	2.0
40	BF	110	LEU	2.0
15	AO	53	HIS	2.0
17	AQ	45	HIS	2.0
35	BA	157	U	2.0
38	BD	233	HIS	2.0
53	BV	77	ALA	2.0
21	AU	2	GLY	2.0
49	BR	5	LYS	2.0
16	AP	80	PHE	2.0
47	BP	138	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
48	BQ	17	LEU	2.0
47	BP	92	GLU	2.0
4	AD	154	ASN	2.0
39	BE	123	ALA	2.0
1	AA	228	A	2.0
4	AD	140	VAL	2.0
28	B3	52	HIS	2.0
2	AB	132	LYS	2.0
1	AA	730	G	2.0
53	BV	67	GLY	2.0
54	BW	108	GLY	2.0
54	BW	73	ALA	2.0
55	BX	22	ALA	2.0
19	AS	59	PRO	2.0
4	AD	123	HIS	2.0
40	BF	53	THR	2.0
50	BS	30	ARG	2.0
51	BT	52	ILE	2.0
51	BT	95	ARG	2.0
53	BV	3	ALA	2.0
9	AI	123	PRO	2.0
17	AQ	85	VAL	2.0
1	AA	80	G	2.0
1	AA	98	G	2.0
1	AA	1031	G	2.0
35	BA	86	C	2.0
4	AD	139	ARG	2.0
32	B7	35	ARG	2.0
35	BA	1382	G	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

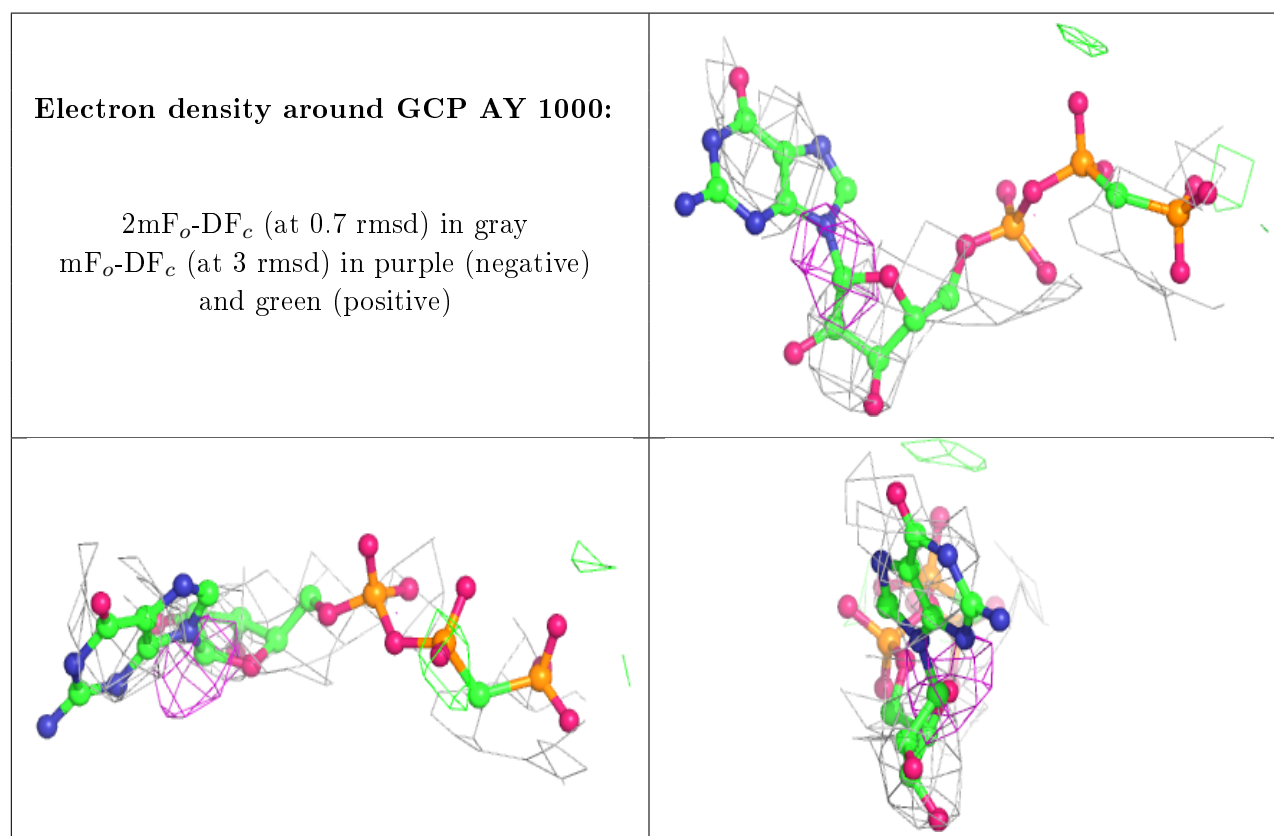
There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
58	GCP	AY	1000	32/32	0.82	0.24	95,109,121,122	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers [i](#)

There are no such residues in this entry.