



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 2, 2024 – 04:12 pm GMT

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](mailto: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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
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) : 2.36

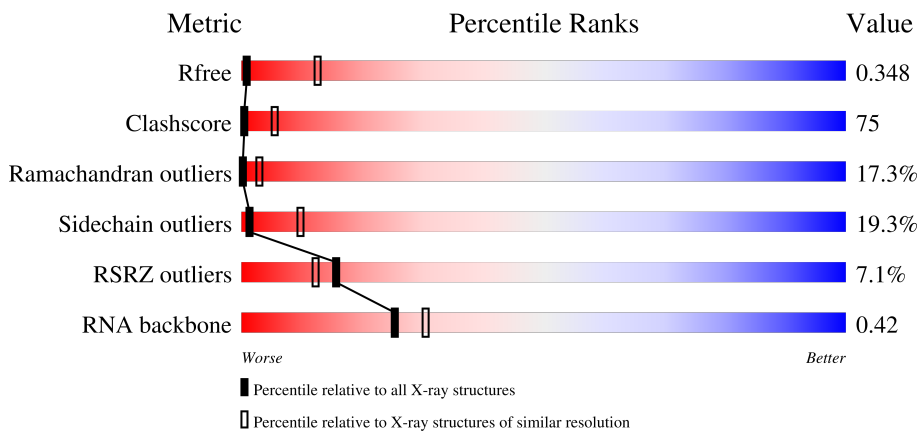
# 1 Overall quality at a glance i

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 of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	
2	AB	256	
3	AC	239	
4	AD	209	

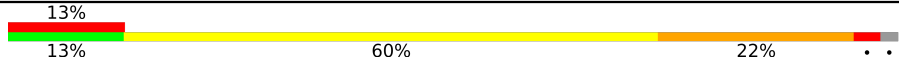

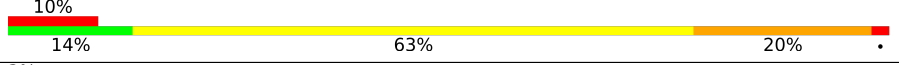
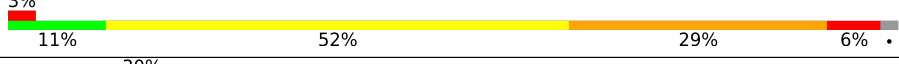
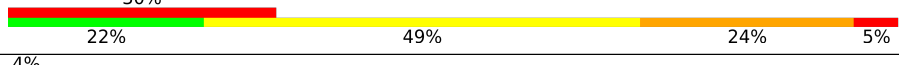
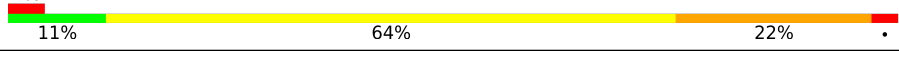
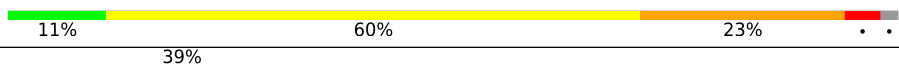
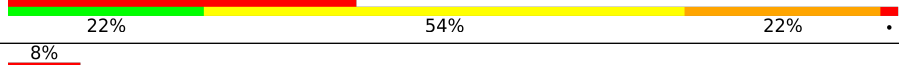
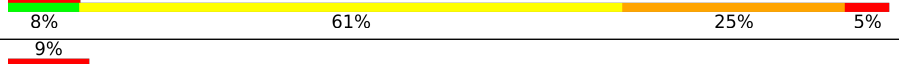
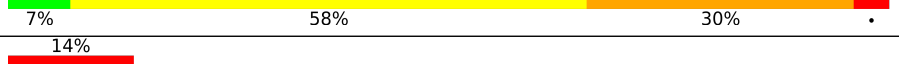
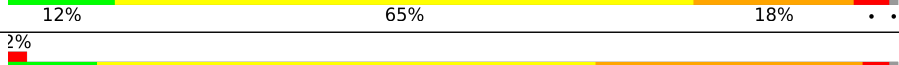
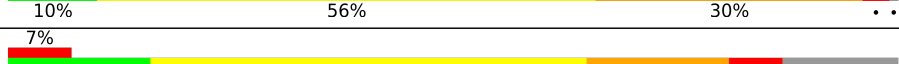

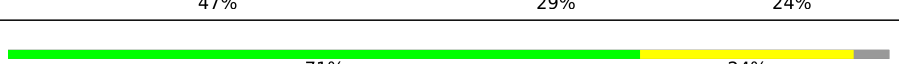
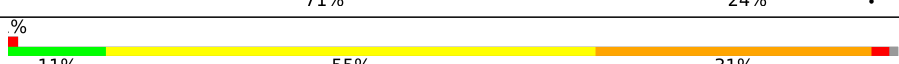
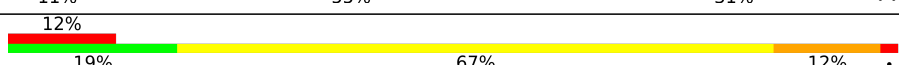
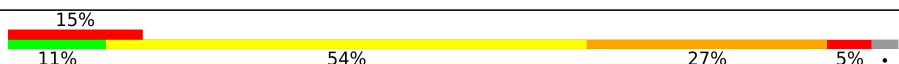
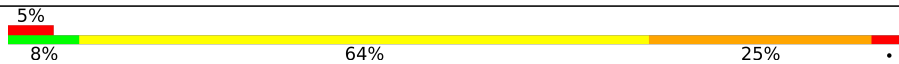
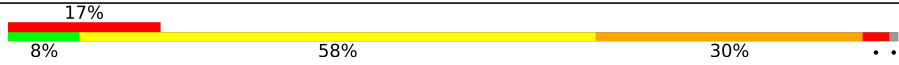


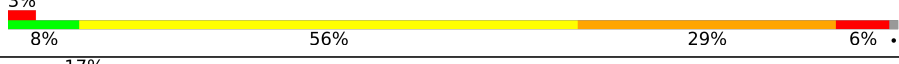



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Mol	Chain	Length	Quality of chain
5	AE	162	
6	AF	101	
7	AG	156	
8	AH	138	
9	AI	128	
10	AJ	105	
11	AK	129	
12	AL	135	
13	AM	126	
14	AN	61	
15	AO	89	
16	AP	88	
17	AQ	105	
18	AR	88	
19	AS	93	
20	AT	106	
21	AU	27	
22	AV	77	
23	AX	9	
24	AY	529	
25	B0	85	
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 [i](#)

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
			Total	C	N	O	P			
1	AA	1504	32329	14390	5992	10444	1503	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
			Total	C	N	O	S			
10	AJ	99	795	499	157	138	1	0	0	1

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	AL	125	971	611	196	163	1	0	0	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
			Total	C	N	O	S			
13	AM	125	988	611	206	169	2	0	0	1

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

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

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

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

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

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

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

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

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

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

- 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
			Total	C	N	O	S			
26	B1	94	732	460	146	125	1	0	0	1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
			Total	C	N	O	S			
38	BD	275	2145	1353	428	361	3	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

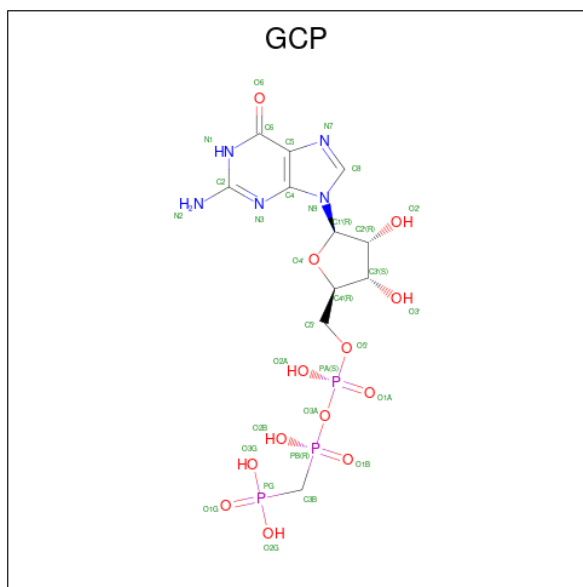
- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L24.

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

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

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

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



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
58	AY	1	32	11	5	13	3	0	0





A1503	G1438	A1375	G1316	A1256	U1194	C1132	G1072	U1012	U952	A892	G896	U705	G643
G1504	C1439	U1376	C1317	U1257	C1195	G1133	U1073	G1013	G953	C893	U827	A706	G644
U1505	A1318	C1377	A1258	G1258	U1196	U1134	G1074	A1014	G954	A894	A767	A707	C645
U1506	A1319	C1378	C1259	G1259	G1197	U1135	U1075	A1015	U955	G895	G829	C708	C646
A1507	G1320	G1379	C1260	U1198	U1199	U1136	G1077	G1016	U956	C896	C770	G709	C647
U1508	A1321	U1380	A1261	C1261	U1199	U1137	U1078	G1017	C957	U831	G771	G710	A648
C1509	G1322	U1381	C1262	C1262	C1200	G1138	U1079	C1018	A958	C832	U772	G711	G649
U1510	A1323	C1382	C1263	C1263	A1201	U1139	A1080	C1019	A959	U833	G773	A712	G650
C1511	G1324	C1383	A1264	G1264	G1202	C1140	U1081	U1020	U960	U834	G774	G713	G651
U1512	C1325	G1384	G1265	C1265	C1203	C1141	G1082	G1021	U961	U835	G775	G714	U652
A1513	C1326	G1385	A1266	G1266	A1204	G1142	G1083	G1022	C962	G836	G776	A715	A653
C1514	G1327	U1386	C1267	C1267	U1205	G1143	U1084	G1023	C963	G837	A777	A716	G657
U1515	A1328	G1387	A1268	U1268	G1206	G1144	G1085	U1024	A964	C904	G778	C717	G658
G1516	A1329	C1388	A1269	A1269	G1207	C1145	U1086	C1027	A965	U839	C779	G718	G659
G1517	U1330	C1389	C1270	C1270	C1208	A1146	U1086	C1028	G966	C840	C780	G719	G660
A1518	G1331	G1390	G1271	G1271	C1209	U1147	G1087	C1029	C967	U841	A781	C720	G661
U1519	A1332	C1391	A1272	G1272	C1210	U1148	G1088	G1030	A968	C848	G782	G721	G662
G1520	G1333	U1392	G1273	C1273	U1211	A1149	G1089	A1030A	A969	C849	A783	A722	G663
U1521	A1334	C1393	G1274	U1274	U1212	U1150	U1090	C1030B	C970	U850	C784	U723	A663
G1522	G1335	A1394	A1275	A1275	A1213	A1151	U1091	G1030C	C971	G851	G785	G724	G664
U1523	C1336	C1395	G1276	G1276	C1214	A1152	U1092	A1030D	C972	C912	G786	G725	A665
G1526	G1464	A1396	G1337	C1277	G1215	C1153	A1093	G1031	G973	A913	G853	C726	G666
C1527	C1465	C1397	G1338	U1278	G1216	G1154	U1094	G1032	A974	A914	U788	G727	G667
U1528	G1466	A1398	A1279	A1279	C1217	G1155	U1095	G1033	A975	A915	G855	A728	G668
G1529	G1467	C1399	A1280	A1280	C1218	G1156	C1096	G1034	G976	G916	C856	A729	U669
U1530	A1468	C1400	U1341	U1281	U1219	A1157	C1097	A1035	A977	G857	G791	G730	G670
A1531	G1469	G1401	C1342	C1282	G1220	U1158	U1098	G1036	A978	A918	G858	G731	G671
U	G1470	C1402	G1343	G1283	G1221	U1159	C1099	C1037	C979	A919	A859	G732	G672
C	G1471	A1403	C1344	C1284	C1222	G1160	C1100	C1038	C980	U920	A860	G734	G673
U	A1472	C1404	U1345	A1285	G1223	C1161	A1101	C1039	U981	U921	G795	C735	G674
A	G1473	G1405	G1346	A1286	C1224	C1162	A1102	U1040	U982	G922	C796	C736	A675
C	G1474	U1406	G1347	A1287	A1225	C1163	A1103	A1041	A983	A923	C797	A737	U676
C	G1475	C1407	A1348	A1288	C1226	C1165	G1104	G1042	C984	C924	G798	C738	A677
U	A1476	A1408	A1349	A1289	A1227	G1166	G1105	A1046	A985	G925	G799	C739	U677
C	C1477	C1409	A1350	G1290	C1228	U1168	G1106	U1047	A986	G926	C800	U740	C679
U	G1478	G1410	U1351	G1291	A1229	A1169	C1107	G1048	G987	C867	U801	G741	C680
C	C1479	C1411	C1352	U1292	C1230	A1170	C1108	G1049	G988	G928	A802	G742	C681
U	G1480	C1412	G1353	G1293	G1231	G1171	C1109	U1050	C989	G929	G803	U743	G682
U	U1481	A1413	C1354	G1294	U1232	C1172	A1110	G1051	C990	C930	U804	C744	G683
C	G1482	U1414	G1355	C1295	G1233	G1173	A1111	C1052	U991	U991	C805	C745	A684
C	A1483	G1415	C1356	C1296	C1234	G1174	C1112	G1053	U992	C932	C806	A746	G685
U	C1484	G1416	A1357	C1297	U1235	G1175	C1113	G993	U993	A873	A807	C747	U686
U	U1485	G1417	C1358	C1298	A1236	A1176	C1114	C1054	A994	C934	C808	C748	A687
U	G1486	A1418	G1359	A1299	C1237	G1177	C1115	A1055	C995	A935	G809	C749	G688
U	G1487	G1419	A1360	G1300	A1238	G1178	C1116	U1056	A996	G876	C810	G750	C689
U	G1488	G1488	G1361	U1301	A1239	A1179	G1117	G1057	U997	A937	C811	U751	G690
U	G1489	C1423	C1362	U1302	U1240	A1180	C1118	G1058	G998	A938	C812	G752	G691
U	C1424	C1363	G1303	G1303	G1241	G1181	C1119	C1059	C999	G939	U813	A753	U692
U	G1490	U1425	A1363A	G1304	C1242	G1182	G1120	G1060	U1000	C880	A814	C754	G693
U	A1492	C1426	U1364	G1305	C1243	A1183	U1121	G1061	U1001	G941	A815	G755	A694
U	A1493	U1427	G1365	A1306	C1244	G1184	U1122	U1062	G942	G882	A816	C756	A695
U	U1494	C1430	C1366	U1307	G1245	U1185	A1123	G1063	U943	C883	C817	U757	A696
U	U1495	G1431	G1367	U1308	A1248	G1186	G1124	G1064	G944	U884	C818	G758	U697
U	C1496	G1432	C1368	G1309	C1249	G1187	U1125	U1065	G945	A885	A819	A759	G698
U	G1497	G1433	C1369	G1310	A1250	A1188	U1126	C1066	A946	G886	U820	G760	C699
U	U1498	G1434	G1370	G1311	U1251	A1189	G1127	A1067	G947	G887	G821	G761	G700
U	A1499	G1435	G1371	G1312	A1252	G1190	C1128	G1068	C948	G888	C822	C762	C701
U	U1500	U1436	U1372	U1313	A1253	G1191	A1129	C1069	A949	A889	G823	G763	A702
U	C1501	G1437	G1373	C1264	C1264	A1191	A1130	U1070	U950	G890	C824	C764	G703
U	A1502	A1374	A1374	U1315	G1255	G1193	G1131	C1071	G1011	U951	G825	G765	A704



P189  
D190  
R191  
E192  
D193  
L194  
A195  
L196  
P197  
V198  
N199  
E200  
Q201  
L202  
V203  
I204  
E205  
F206  
Y207  
S208  
R209

• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain AE: 2% 17% 57% 18% 7%

MET  
PRO  
GLU  
THR  
D5  
F6  
E7  
E8  
K9  
M10  
I11  
I12  
M13  
I14  
R15  
T16  
A17  
E18  
M19  
Q20  
A21  
G22  
G23  
R24  
R25  
R26  
F26  
G29  
A30  
L31  
V32  
V33  
V34  
G35  
D36  
R37  
Q38  
G39  
R40  
V41  
G42  
L43  
L44  
G44  
F45  
G46  
I47  
K47  
A48  
P49  
E50  
V51  
P52  
L53  
A54  
V55  
Q56  
K57  
A58  
G59  
A62

R63  
R64  
M65  
M66  
V67  
E68  
V69  
P70  
L71  
L72  
M73  
I76  
P77  
H78  
E79  
I80  
E81  
V82  
E83  
F84  
S87  
K88  
I89  
V90  
L91  
K92  
P93  
A94  
A95  
P96  
G97  
T98  
G99  
I100  
I101  
A102  
G103  
A104  
V105  
P106  
L107  
A108  
I109  
L110  
E111  
P112  
A113  
G114  
V115  
Y116  
L117  
I118  
L119  
Q120  
K121  
E122  
L123  
G124

S125  
R126  
M127  
P128  
I129  
M130  
I131  
A132  
Y133  
A134  
T135  
M136  
E137  
A138  
L139  
R140  
Q141  
L142  
R143  
T144  
K145  
A146  
D147  
V148  
E149  
R150  
L151  
R152  
E155  
ALA  
HIS  
ALA  
GLN  
ALA  
GLN  
GLY

• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AF: 20% 60% 19%

M1  
R2  
R3  
Y4  
E5  
V6  
N7  
I8  
V9  
L10  
N11  
P12  
M13  
L14  
D15  
Q16  
S17  
E18  
L19  
A20  
E21  
K22  
K23  
E24  
I25  
L26  
Q27  
A29  
L30  
E31  
N32  
Y33  
R36  
V37  
E38  
E42  
L43  
L44  
L45  
R46  
R47  
L48  
A49  
Y50  
P51  
I52  
A53  
K54  
D55  
P56  
Q57  
G58  
Y59  
F60  
L61  
W62  
Y63

Q64  
V65  
E66  
M67  
P68  
E69  
D70  
R71  
V72  
N73  
D74  
L75  
A76  
R77  
E78  
L79  
R80  
I81  
R82  
D83  
M84  
V85  
R86  
R87  
V88  
M89  
V90  
V91  
K92  
S93  
F97  
L98  
M100  
A101

• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain AG: 2% 18% 65% 15%

MET  
A2  
R3  
R4  
R5  
R6  
A7  
E8  
V9  
L12  
Q13  
P14  
D15  
L16  
V17  
Y18  
G19  
D20  
V21  
L22  
V23  
T24  
A25  
F26  
L27  
M28  
K29  
L30  
M31  
R32  
D33  
G34  
K35  
A36  
N37  
L38  
A39  
A40  
V105  
R41  
L42  
L43  
F43  
Y44  
D45  
A46  
I49  
I50  
Q51  
E52  
K53  
T54  
G55  
Q56  
E57  
P58  
L59  
V60  
F62

K63  
Q64  
A65  
V66  
E67  
M68  
V69  
K70  
P71  
R72  
V75  
R76  
S77  
R78  
V79  
G80  
G81  
M82  
A83  
M84  
V87  
P88  
R89  
M90  
E90  
V91  
R94  
L95  
R96  
Q96  
Q97  
G98  
A100  
L101  
R102  
V103  
E104  
V105  
Q106  
A107  
A108  
R111  
P112  
R113  
R114  
R115  
A116  
A117  
K118  
V118  
I119  
I120  
A121  
E122  
L123  
K124  
M125  
D126

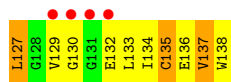
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A128  
E129  
G130  
R131  
G132  
G133  
A134  
V135  
K136  
L137  
K138  
E139  
D140  
V141  
E142  
R143  
M144  
A145  
E146  
A147  
M148  
R149  
A150  
Y151  
A152  
H153  
Y154  
W156

• Molecule 8: 30S RIBOSOMAL PROTEIN S8

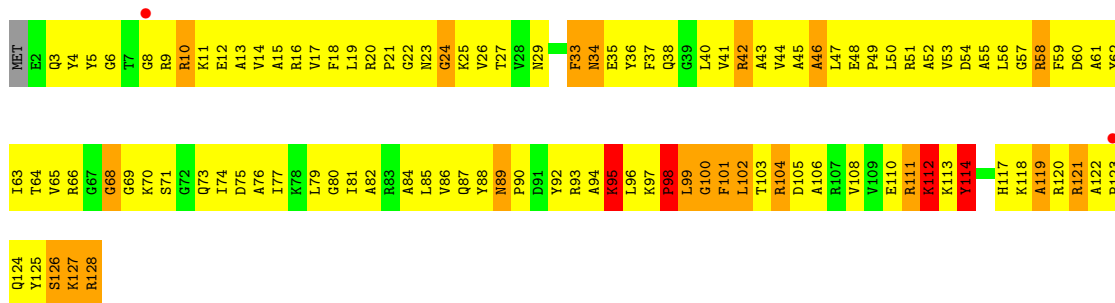
Chain AH: 4% 17% 63% 17%

M1  
L2  
T3  
D4  
P5  
I6  
A7  
D8  
M9  
L10  
T11  
L12  
I13  
R14  
M15  
A16  
R17  
L18  
V19  
Y20  
K21  
E22  
D25  
V26  
A28  
S29  
R30  
F31  
R32  
E33  
E34  
L35  
L36  
R37  
L38  
L39  
A40  
R41  
E42  
G43  
F44  
L45  
K46  
G47  
Y48  
E49  
R50  
V51  
D52  
V53  
L54  
G55  
G56  
P57  
Y58  
L59  
R60

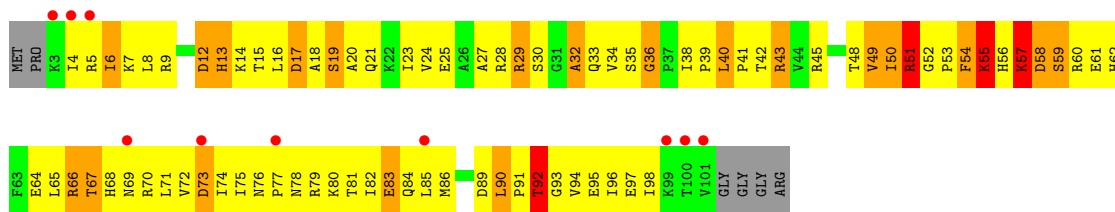
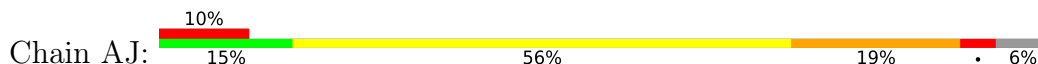
L63  
K64  
P67  
R68  
R69  
Q70  
G71  
P72  
D73  
P74  
R75  
P76  
V79  
H82  
I83  
R84  
R85  
I86  
K88  
P89  
G90  
R91  
R92  
V93  
Y94  
V95  
G96  
V97  
K98  
E99  
I100  
P101  
R102  
V103  
R104  
R105  
G106  
L107  
G108  
I109  
A110  
I111  
L112  
S113  
T114  
S115  
V118  
L119  
D120  
D121  
R122  
Y123  
A124  
R125  
K126



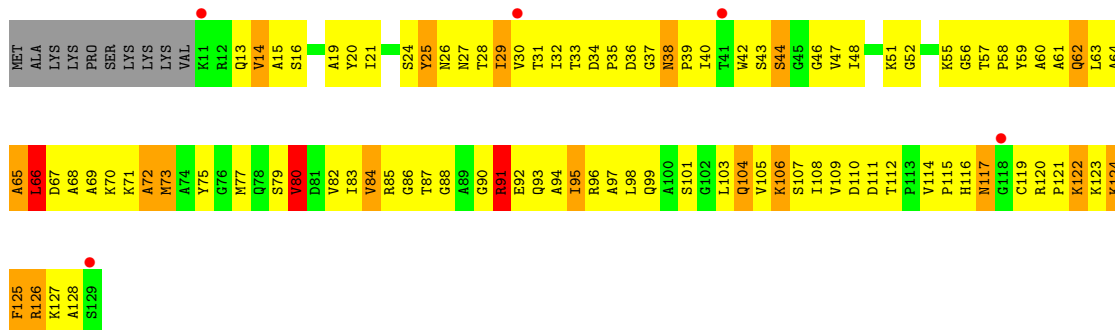
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



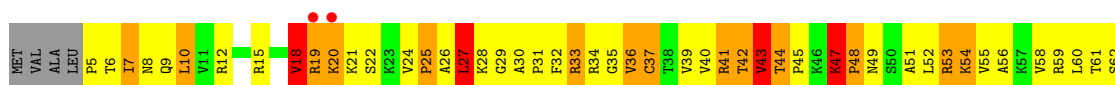
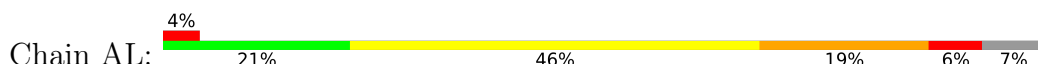
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

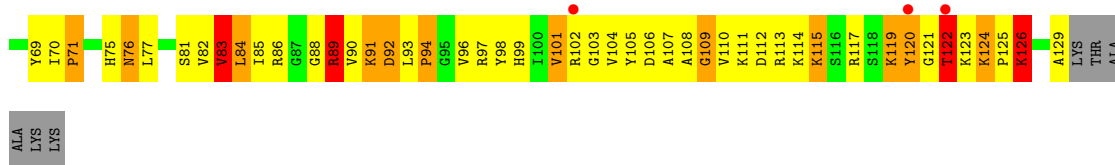


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

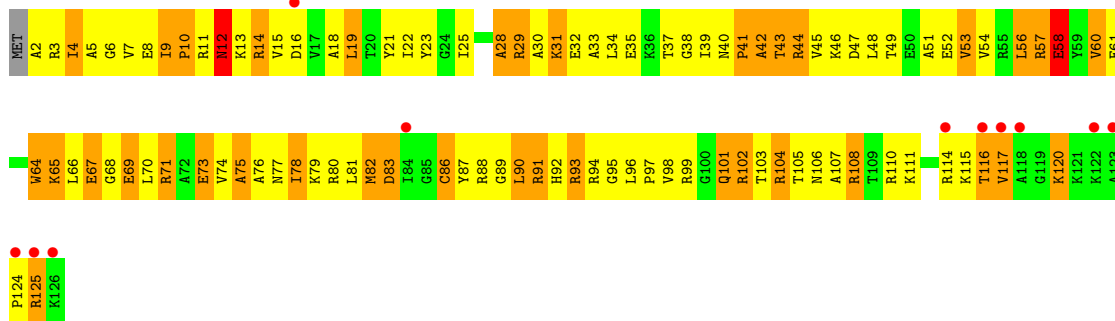
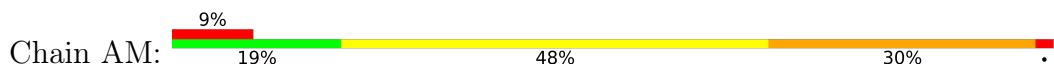


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

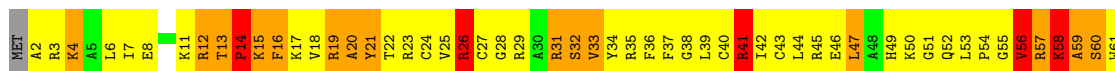
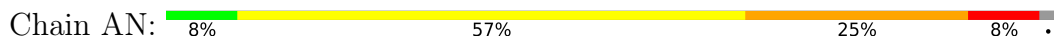




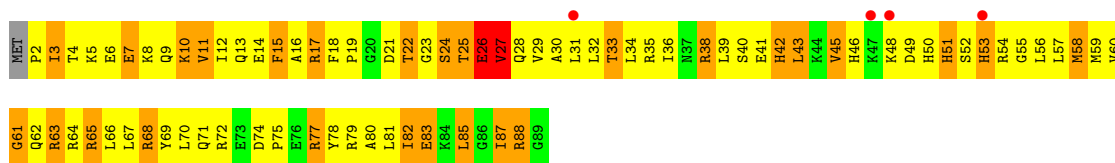
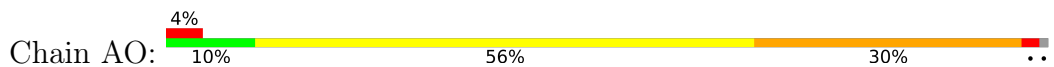
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



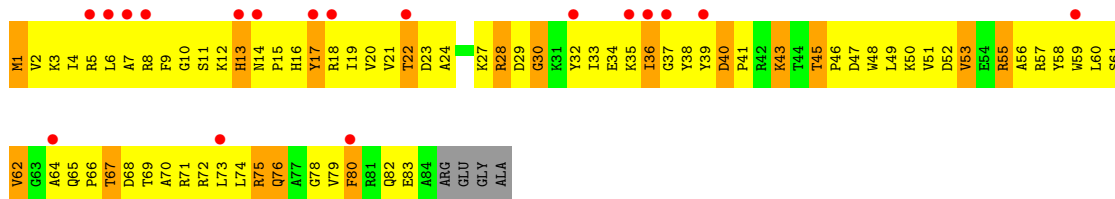
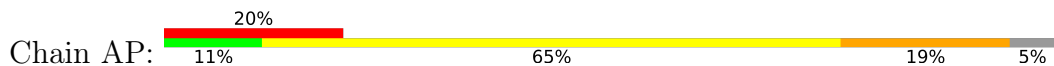
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



• Molecule 15: 30S RIBOSOMAL PROTEIN S15

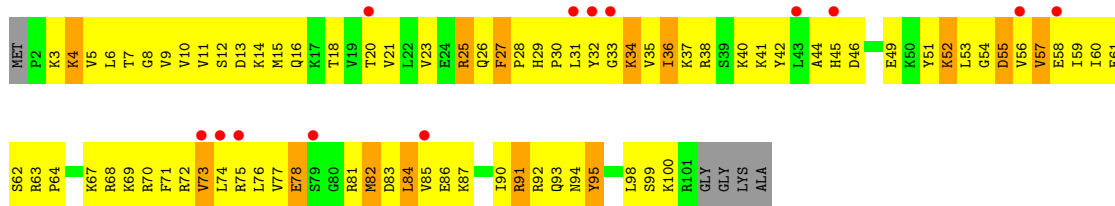


• Molecule 16: 30S RIBOSOMAL PROTEIN S16

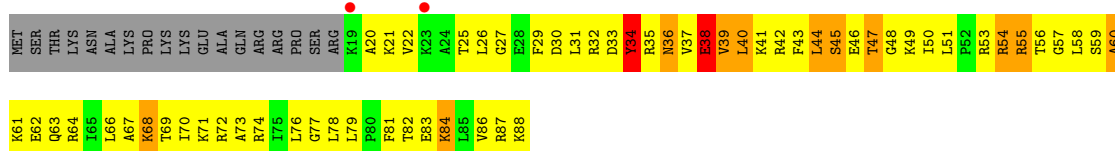
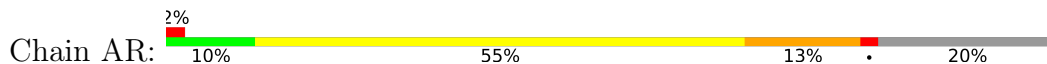


• Molecule 17: 30S RIBOSOMAL PROTEIN S17

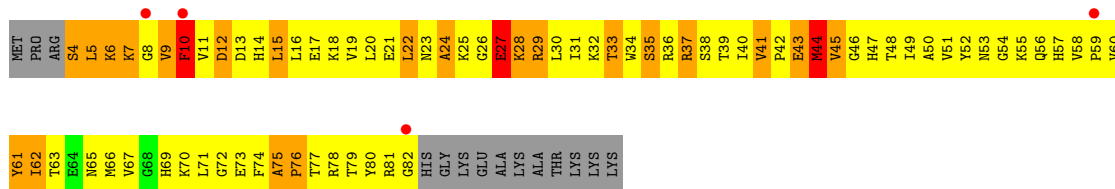




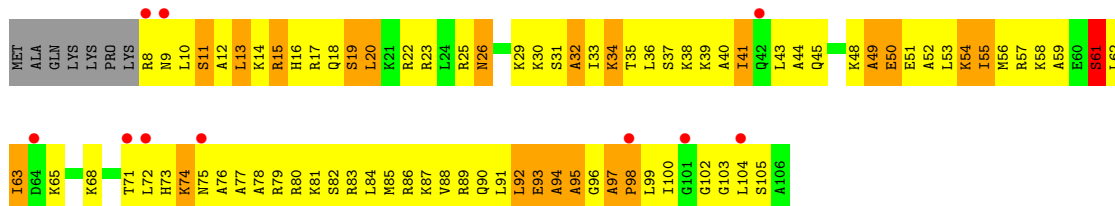
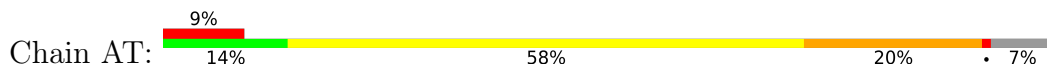
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



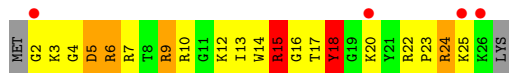
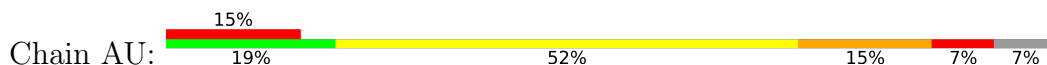
• Molecule 19: 30S RIBOSOMAL PROTEIN S19



• Molecule 20: 30S RIBOSOMAL PROTEIN S20

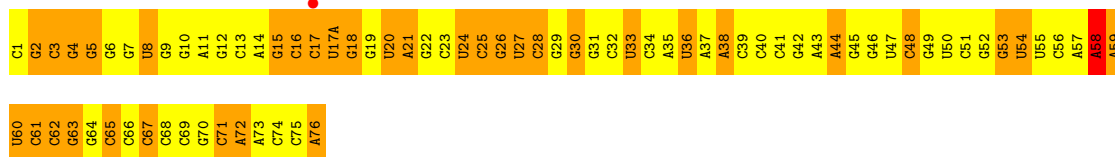


• Molecule 21: 30S RIBOSOMAL PROTEIN THX

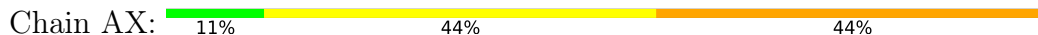


• Molecule 22: PE HYBRID STATE TRNA FMET

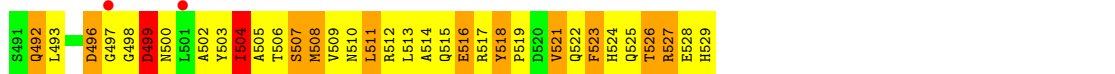
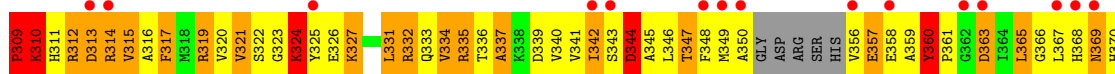
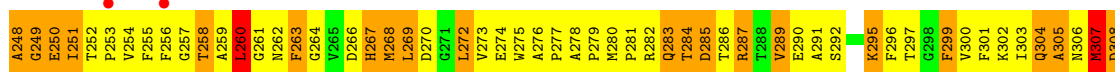
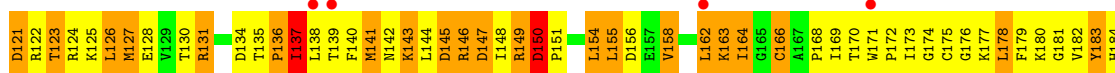
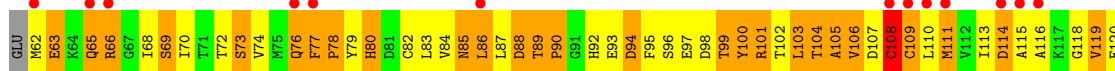
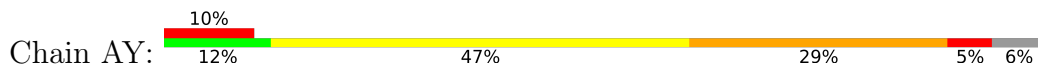




• Molecule 23: MRNA 5'-R(\*AP\*AP\*AP\*AP\*AP\*AP\*UP\*GP\*UP)-3'

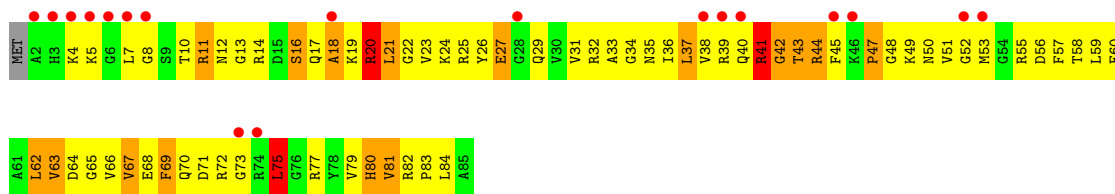


• Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 3

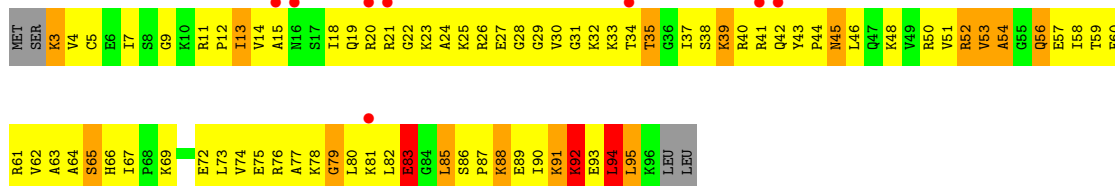


• Molecule 25: 50S RIBOSOMAL PROTEIN L27

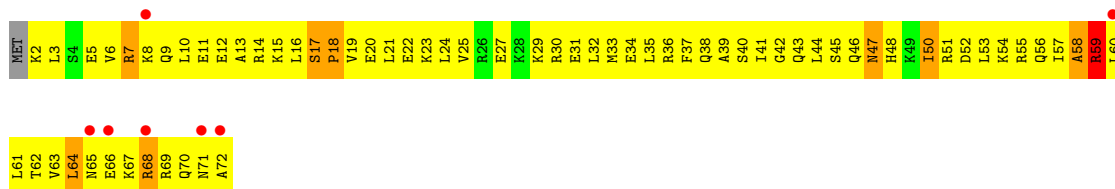




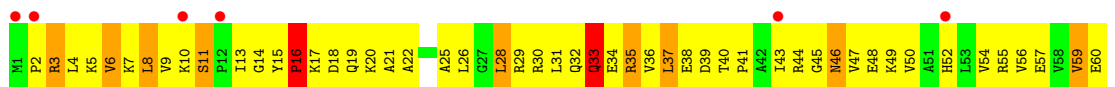
• Molecule 26: 50S RIBOSOMAL PROTEIN L28



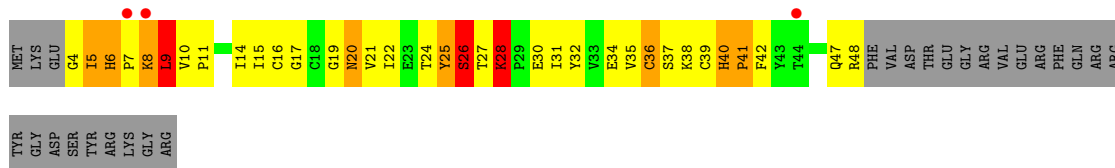
• Molecule 27: 50S RIBOSOMAL PROTEIN L29



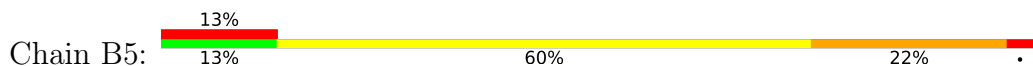
• Molecule 28: 50S RIBOSOMAL PROTEIN L30



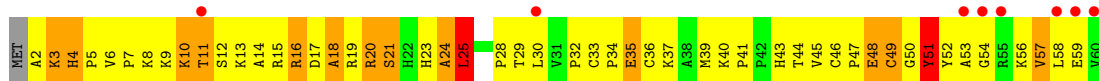
• Molecule 29: 50S RIBOSOMAL PROTEIN L31



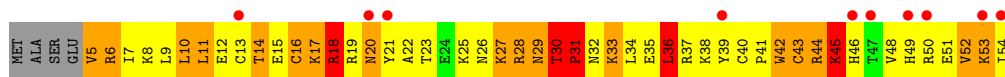
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



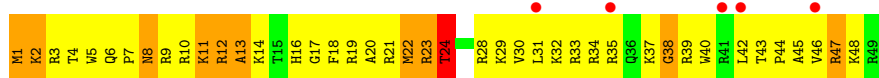




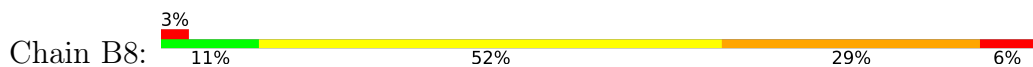
• Molecule 31: 50S RIBOSOMAL PROTEIN L33



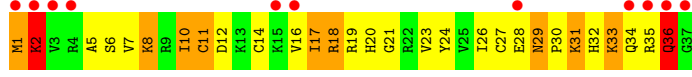
• Molecule 32: 50S RIBOSOMAL PROTEIN L34



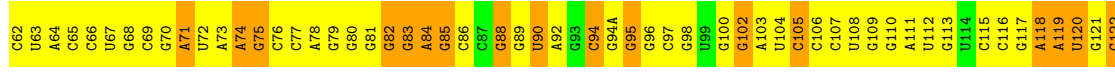
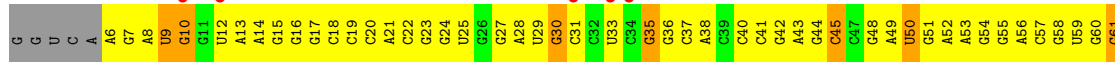
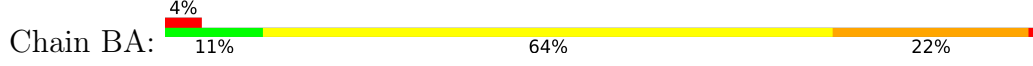
• Molecule 33: 50S RIBOSOMAL PROTEIN L35



• Molecule 34: 50S RIBOSOMAL PROTEIN L36



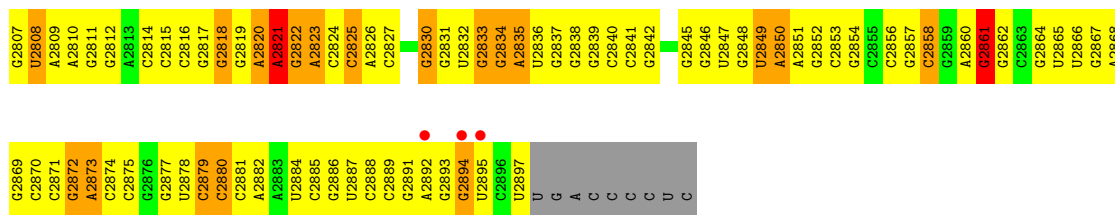
• Molecule 35: 23S RIBOSOMAL RNA



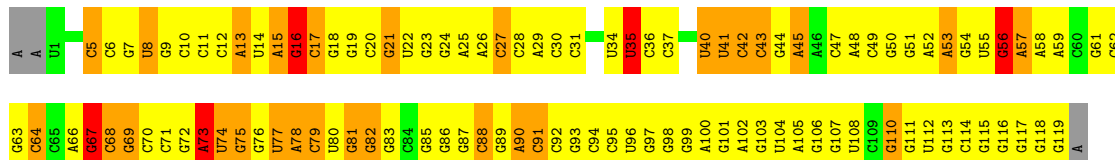
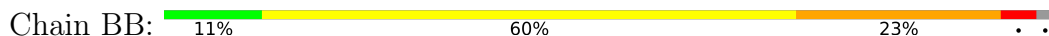
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G942	G943	G944	G945	G946	G947	G948	G949	G950	G951	G952	G953	G954	G955	G956	G957	G958	G959	G960	G961	G962	G963	G964	G965	G966	G967	G968	G969	G970	G971	G972	G973	G974	G975	G976	G977	G978	G979	G980	G981	G982	G983	G984	G985	G986	G987	G988	G989	G990	G991	G992	G993	G994	G995	G996	G997	G998	G999	G1000							
A878	A879	A880	A881	A882	A883	A884	A885	A886	A887	A888	A889	A890	A891	A892	A893	A894	A895	A896	A897	A898	A899	A900	A901	A902	A903	A904	A905	A906	A907	A908	A909	A910	A911	A912	A913	A914	A915	A916	A917	A918	A919	A920	A921	A922	A923	A924	A925	A926	A927	A928	A929	A930	A931	A932	A933	A934	A935	A936	A937	A938	A939	A940	A941		
A752	A753	A754	A755	A756	A757	A758	A759	A760	A761	A762	A763	A764	A765	A766	A767	A768	A769	A770	A771	A772	A773	A774	A775	A776	A777	A778	A779	A780	A781	A782	A783	A784	A785	A786	A787	A788	A789	A790	A791	A792	A793	A794	A795	A796	A797	A798	A799	A800	A801	A802	A803	A804	A805	A806	A807	A808	A809	A810	A811	A812	A813	A814	A815	A816	A817
C692	C693	C694	C695	C696	C697	C698	C699	C700	C701	C702	C703	C704	C705	C706	C707	C708	C709	C710	C711	C712	C713	C714	C715	C716	C717	C718	C719	C720	C721	C722	C723	C724	C725	C726	C727	C728	C729	C730	C731	C732	C733	C734	C735	C736	C737	C738	C739	C740	C741	C742	C743	C744	C745	C746	C747	C748	C749	C750	C751						
U594	U595	U596	U597	U598	U599	U600	U601	U602	U603	U604	U605	U606	U607	U608	U609	U610	U611	U612	U613	U614	U615	U616	U617	U618	U619	U620	U621	U622	U623	U624	U625	U626	U627	U628	U629	U630	U631	U632	U633	U634	U635	U636	U637	U638	U639	U640	U641	U642	U643	U644	U645	U646	U647	U648	U649	U650	U651	U652							
G467	G468	G469	G470	G471	G472	G473	G474	G475	G476	G477	G478	G479	G480	G481	G482	G483	G484	G485	G486	G487	G488	G489	G490	G491	G492	G493	G494	G495	G496	G497	G498	G499	G500	G501	G502	G503	G504	G505	G506	G507	G508	G509	G510	G511	G512	G513	G514	G515	G516	G517	G518	G519	G520	G521	G522	G523	G524	G525	G526	G527	G528	G529	G530		
C531	C532	C533	C534	C535	C536	C537	C538	C539	C540	C541	C542	C543	C544	C545	C546	C547	C548	C549	C550	C551	C552	C553	C554	C555	C556	C557	C558	C559	C560	C561	C562	C563	C564	C565	C566	C567	C568	C569	C570	C571	C572	C573	C574	C575	C576	C577	C578	C579	C580	C581	C582	C583	C584	C585	C586	C587	C588	C589	C590	C591	C592	C593	C594	C595	
A402	A403	A404	A405	A406	A407	A408	A409	A410	A411	A412	A413	A414	A415	A416	A417	A418	A419	A420	A421	A422	A423	A424	A425	A426	A427	A428	A429	A430	A431	A432	A433	A434	A435	A436	A437	A438	A439	A440	A441	A442	A443	A444	A445	A446	A447	A448	A449	A450	A451	A452	A453	A454	A455	A456	A457	A458	A459	A460	A461	A462	A463	A464	A465	A466	
A282	A283	A284	A285	A286	A287	A288	A289	A290	A291	A292	A293	A294	A295	A296	A297	A298	A299	A300	A301	A302	A303	A304	A305	A306	A307	A308	A309	A310	A311	A312	A313	A314	A315	A316	A317	A318	A319	A320	A321	A322	A323	A324	A325	A326	A327	A328	A329	A330	A331	A332	A333	A334	A335	A336	A337	A338	A339	A340	A341	A342					
C343	C344	C345	C346	C347	C348	C349	C350	C351	C352	C353	C354	C355	C356	C357	C358	C359	C360	C361	C362	C363	C364	C365	C366	C367	C368	C369	C370	C371	C372	C373	C374	C375	C376	C377	C378	C379	C380	C381	C382	C383	C384	C385	C386	C387	C388	C389	C390	C391	C392	C393	C394	C395	C396	C397	C398	C399	C400								
A255	A256	A257	A258	A259	A260	A261	A262	A263	A264	A265	A266	A267	A268	A269	A270	A271	A272	A273	A274	A275	A276	A277	A278	A279	A280	A281	A282	A283	A284	A285	A286	A287	A288	A289	A290	A291	A292	A293	A294	A295	A296	A297	A298	A299	A300	A301	A302	A303	A304	A305	A306	A307	A308	A309	A310	A311	A312	A313	A314	A315	A316	A317	A318	A319	A320
A196	A197	A198	A199	A200	A201	A202	A203	A204	A205	A206	A207	A208	A209	A210	A211	A212	A213	A214	A215	A216	A217	A218	A219	A220	A221	A222	A223	A224	A225	A226	A227	A228	A229	A230	A231	A232	A233	A234	A235	A236	A237	A238	A239	A240	A241	A242	A243	A244	A245	A246	A247	A248	A249	A250	A251	A252	A253	A254							



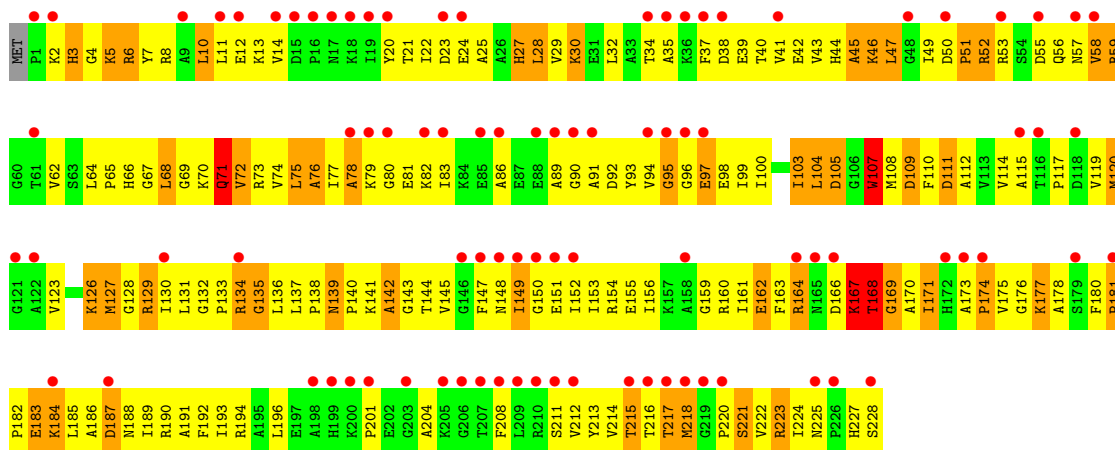
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U2746	U2687	U2564	U2504	C2443	G2383	G2323	C2263	G2190	G2127	G2067	U1944	A1884
G2747	U2688	A2565	G2505	C2444	G2384	C2324	C2264	G2191	C2128	C2068	G1947	A1885
A2748	U2689	U2566	U2506	G2445	C2385	G2325	U2265	G2192	C2129	G2069	C1886	C1887
A2749	C2690	C2567	C2507	G2446	C2386	G2326	A2266	G2193	U2130	G2010	G1948	G1888
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G2751	C2692	G2569	G2509	A2448	A2388	A2328	A2268	C2195	U2132	G2072	G1950	G1890
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G2755	U2696	C2573	U2513	A2452	A2392	U2332	U2272	A2199	C2137	U2016	G1954	C1894
U2756	G2697	G2574	G2514	A2453	A2393	A2333	A2273	A2200	G2138	U2017	U1955	C1895
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A2758	C2699	G2576	G2516	G2455	C2395	A2335	G2275	G2206	C2140	A2019	C1957	G1897
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A2764	A2705	G2582	U2522	U2401	U2401	G2341	G2281	G2221	C2145	C2024	U1963	A1901
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C2774	U2715	G2592	G2532	A2411	A2411	G2351	U2291	G2231	G2155	U2034	A1972	U1911
A2775	A2716	U2593	A2533	G2472	A2412	A2352	C2292	U2232	G2156	G2035	G1973	A1912
U2776	C2717	C2594	A2534	U2473	G2413	G2353	C2293	U2233	G2157	C2036	A1913	A1913
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C2780	A2721	A2598	G2538	C2477	C2417	U2357	C2297	G2237	C2161	G2040	U1917	U1917
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G2782	C2723	A2600	C2540	G2479	U2419	C2359	G2299	G2239	C2163	A2042	G1980	A1919
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G2784	A2725	G2602	G2542	C2481	G2421	A2361	C2301	A2241	U2167	G2044	C1982	G1921
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C2787	G2727	U2604	G2544	G2483	U2423	C2363	G2303	U2243	A2169	G2046	G1984	U1923
U2788	U2728	C2605	G2545	C2484	C2424	G2364	G2304	U2244	A2170	G2047	G1985	U1924
G2789	G2729	G2606	U2546	G2484	A2425	G2365	A2305	U2245	A2171	G2048	A1986	C1925
A2790	C2730	G2607	U2547	G2487	A2426	A2366	C2306	G2246	U2172	C2050	C1987	U1926
G2791	U2731	U2608	G2548	A2488	C2427	G2367	G2307	A2247	A2173	A2051	C1988	A1927
G2792	G2732	C2609	G2549	G2489	G2428	C2368	G2308	C2248	C2174	G2052	G1989	A1928
A2793	A2733	U2610	C2551	G2490	G2429	A2369	A2309	U2249	G2175	G2053	C1990	G1929
G2794	G2734	C2611	U2552	U2491	A2430	G2370	A2310	G2250	C2176	A2054	U1991	G1930
G2795	G2735	U2612	U2553	U2492	U2431	G2371	A2311	G2251	C2177	C2055	G1992	U1931
U2796	U2736	A2613	G2554	U2493	A2432	G2372	A2312	G2252	C2178	G2056	U1993	A1932
G2797	G2737	U2614	U2555	G2494	A2433	G2373	A2313	G2253	C2179	A2057	C1994	G1933
A2798	U2738	U2615	G2556	G2495	A2434	C2374	C2314	C2254	U2180	A2058	U1995	A1934
A2801A	U2739	C2616	C2557	A2496	A2435	G2375	G2315	G2255	G2181	A2059	C1996	G1935
G2802	U2740	G2617	G2558	A2497	G2436	A2376	G2316	G2256	G2182	G2060	G1997	A1936
C2803	C2741	U2618	C2559	C2498	U2437	A2377	G2317	U2257	C2183	G2061	G1998	A1937
G2804	G2742	C2619	C2560	C2499	U2438	A2378	G2318	C2258	C2184	A2062	C1999	A1938
G2805	C2743	A2621	A2561	C2501	C2440	C2380	A2320	C2260	C2185	G2063	G2000	U1939
									C2186	A2064	A2001	U1940
									G2187	G2124	G2002	C1941



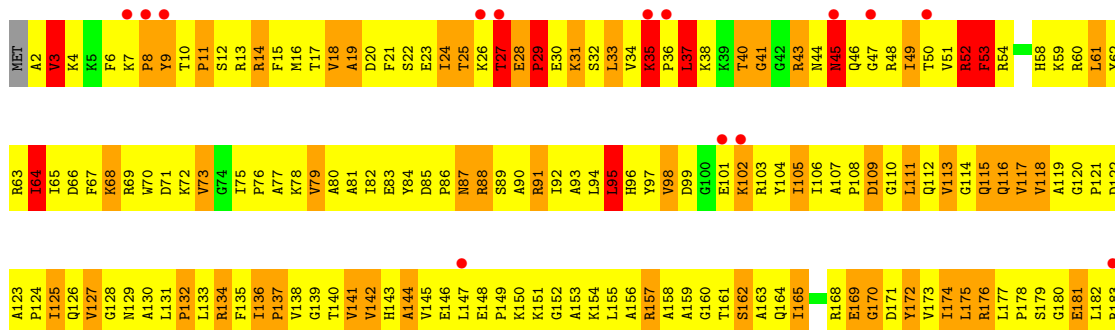
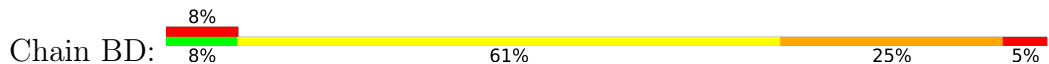
● Molecule 36: 5S RIBOSOMAL RNA

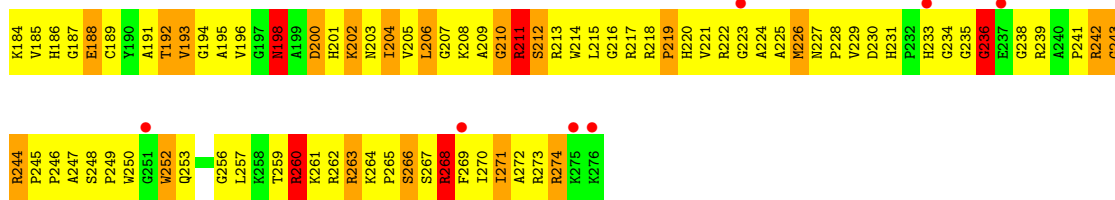


● Molecule 37: 50S RIBOSOMAL PROTEIN L1

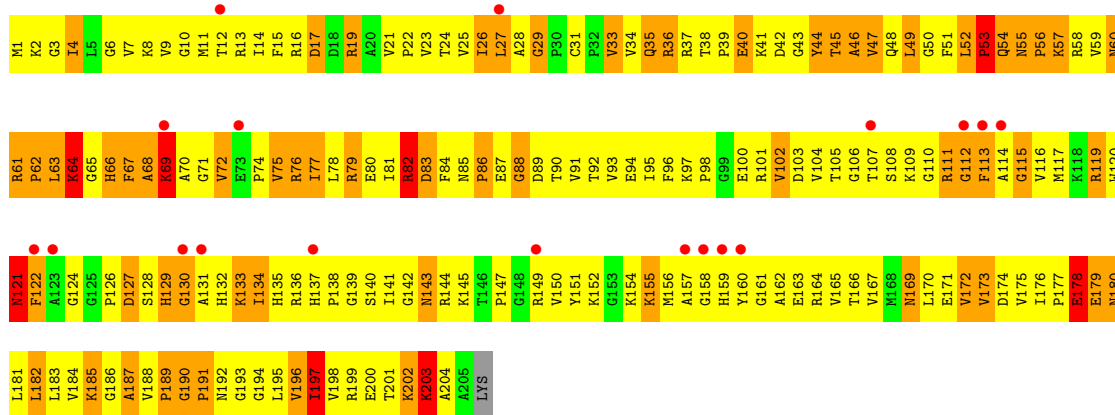
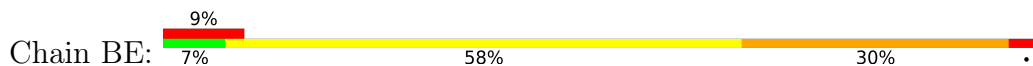


● Molecule 38: 50S RIBOSOMAL PROTEIN L2

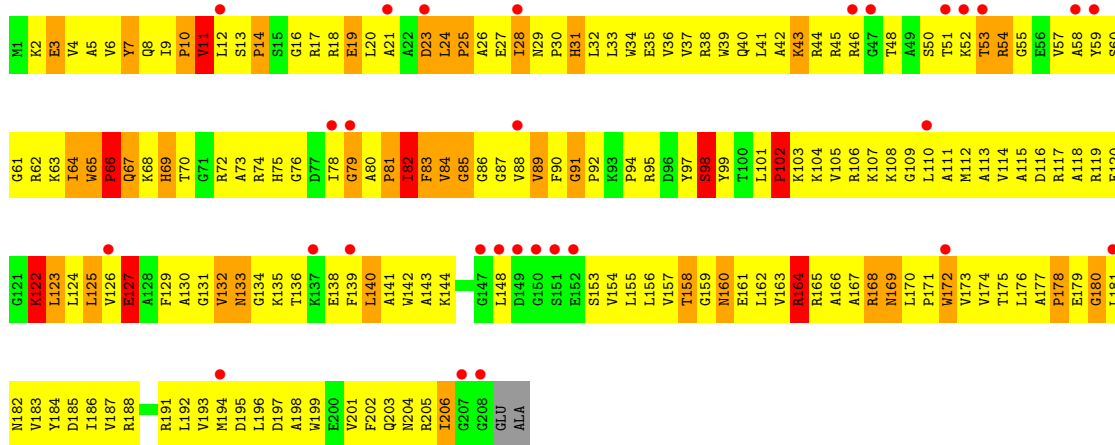
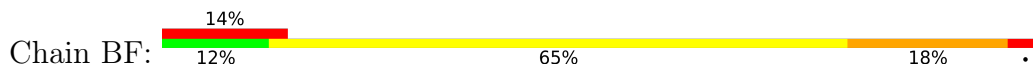




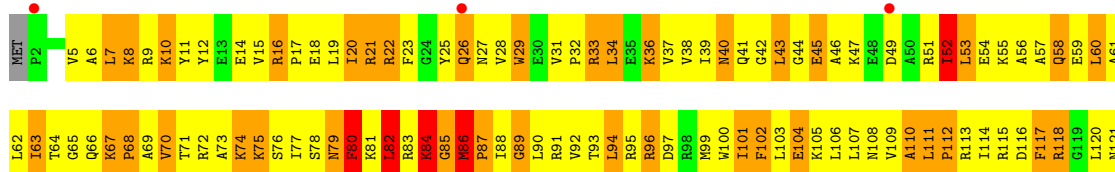
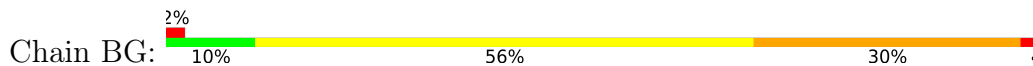
• Molecule 39: 50S RIBOSOMAL PROTEIN L3



• Molecule 40: 50S RIBOSOMAL PROTEIN L4

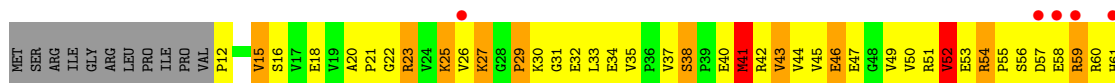
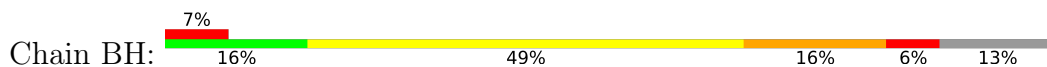


• Molecule 41: 50S RIBOSOMAL PROTEIN L5

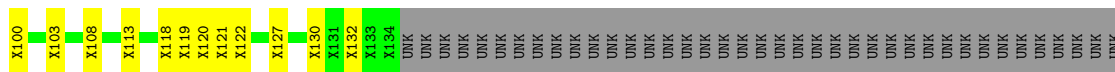
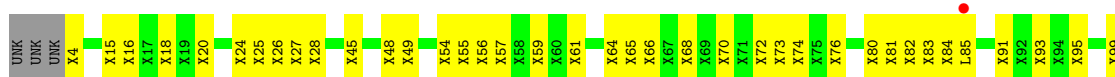




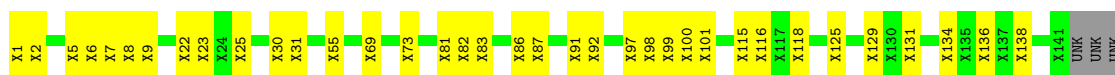
- Molecule 42: 50S RIBOSOMAL PROTEIN L6



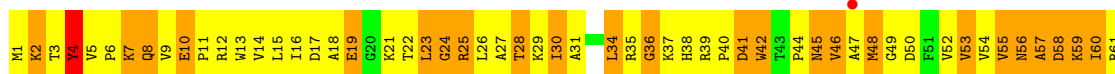
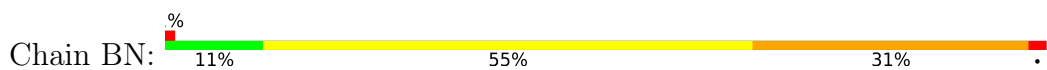
- Molecule 43: 50S RIBOSOMAL PROTEIN L10



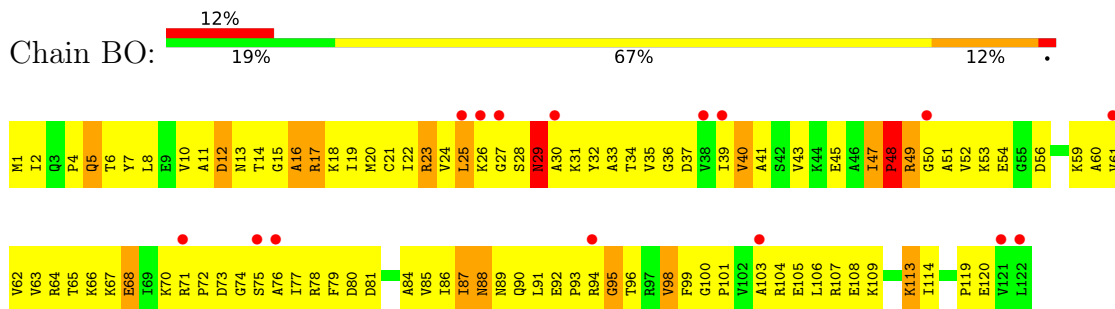
- Molecule 44: 50S RIBOSOMAL PROTEIN L11



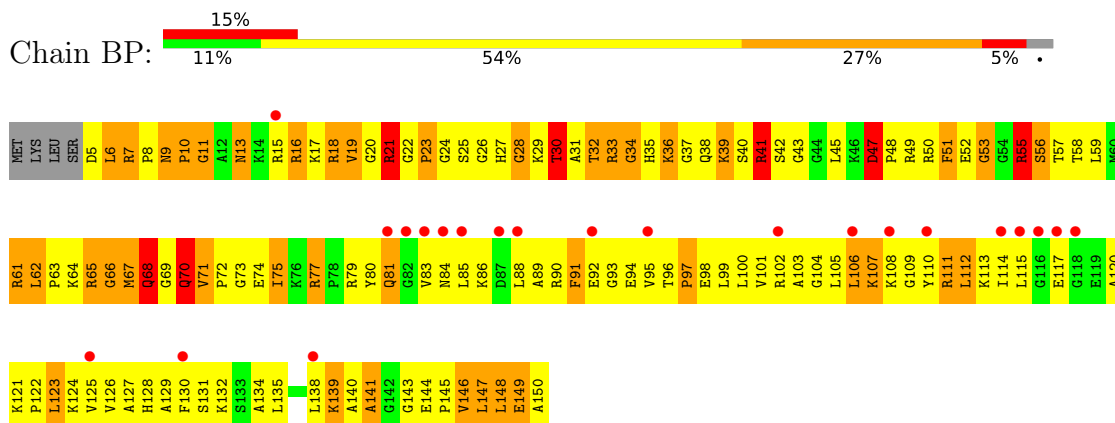
- Molecule 45: 50S RIBOSOMAL PROTEIN L13



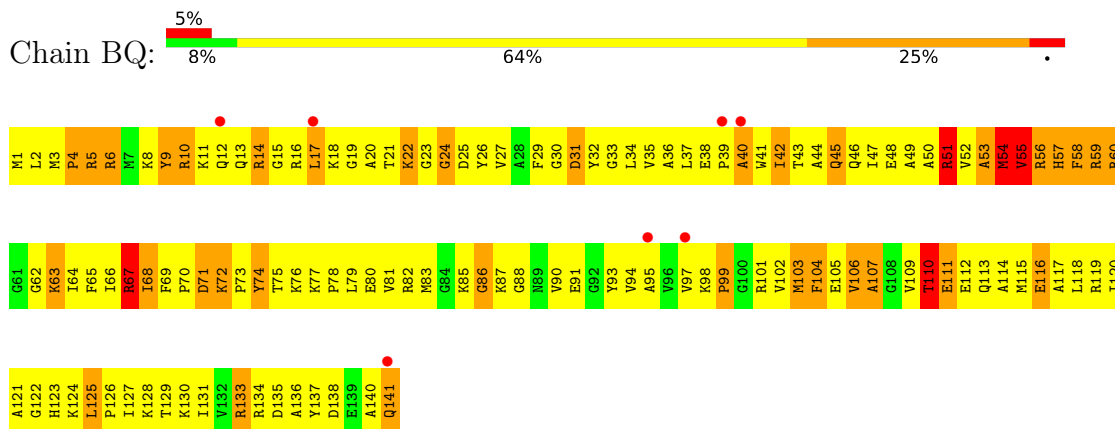
- Molecule 46: 50S RIBOSOMAL PROTEIN L14



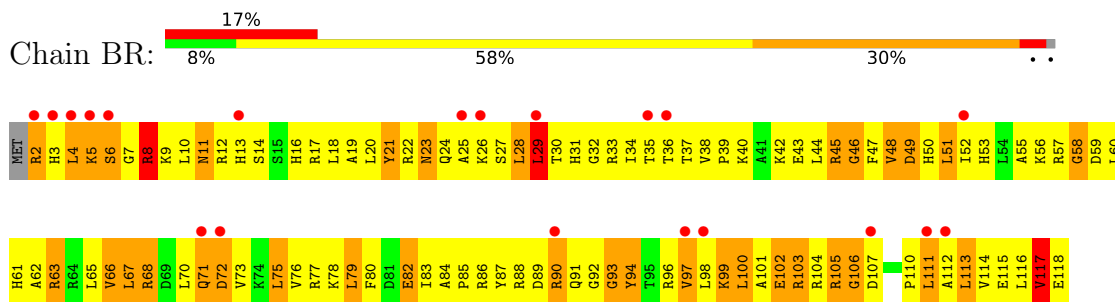
- Molecule 47: 50S RIBOSOMAL PROTEIN L15



- Molecule 48: 50S RIBOSOMAL PROTEIN L16

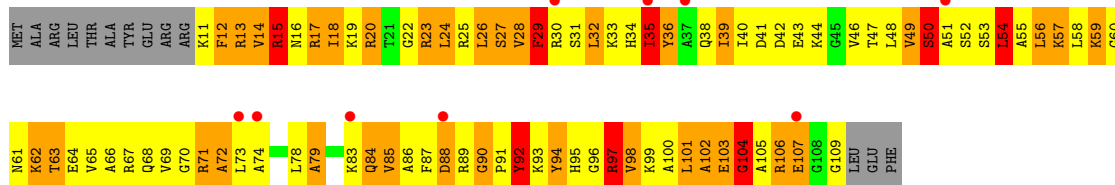


- Molecule 49: 50S RIBOSOMAL PROTEIN L17

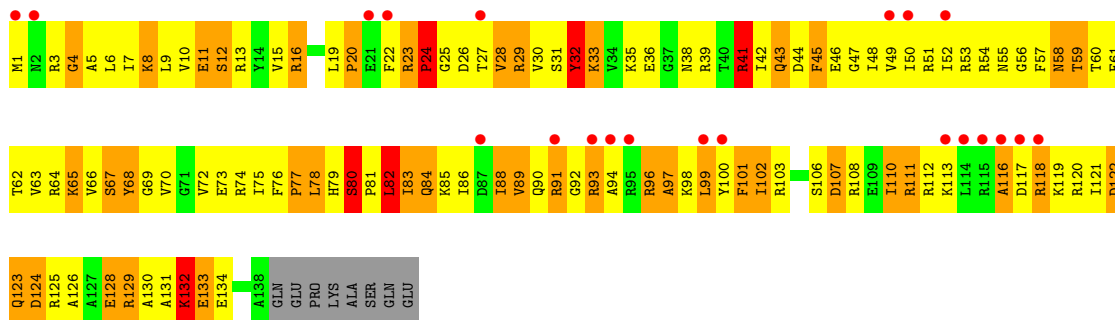
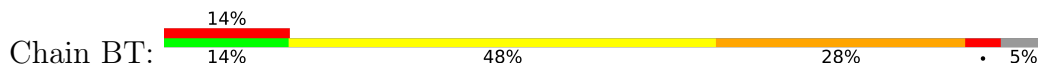


- Molecule 50: 50S RIBOSOMAL PROTEIN L18

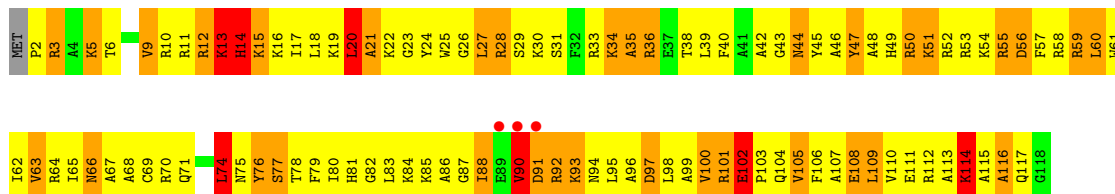
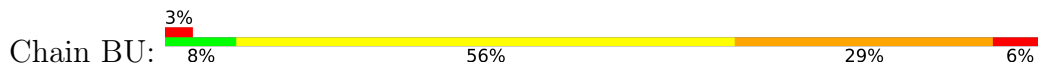




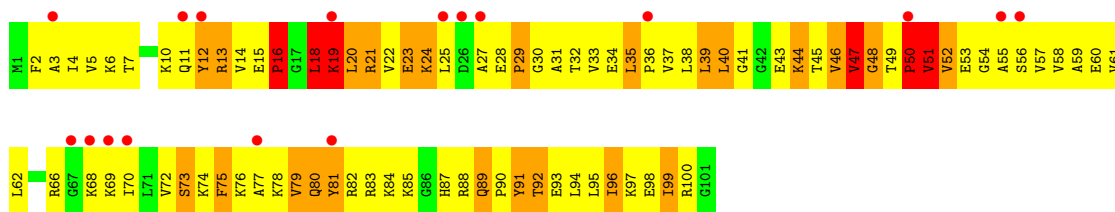
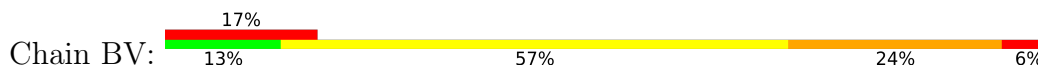
• Molecule 51: 50S RIBOSOMAL PROTEIN L19



• Molecule 52: 50S RIBOSOMAL PROTEIN L20

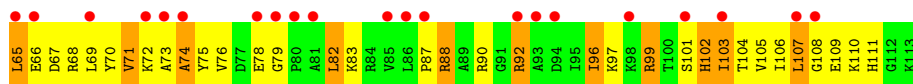


• Molecule 53: 50S RIBOSOMAL PROTEIN L21

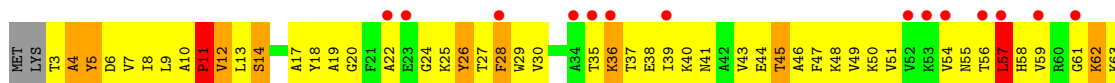


• Molecule 54: 50S RIBOSOMAL PROTEIN L22

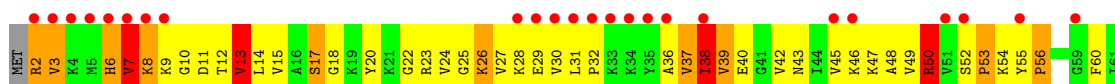
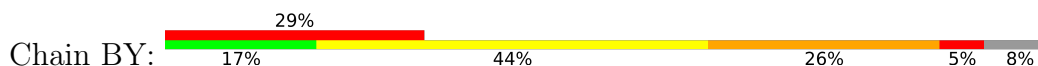




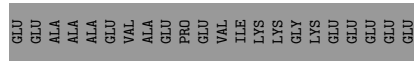
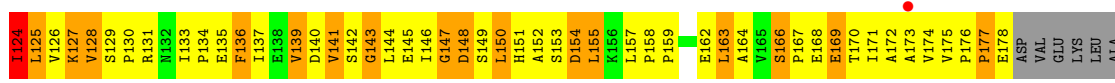
• Molecule 55: 50S RIBOSOMAL PROTEIN L23



• 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, $\alpha$ , $\beta$ , $\gamma$	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
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.70 (at 3.57Å)	Xtrriage
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 <sup>2</sup> )	110.2	Xtrriage
Anisotropy	0.390	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.17 , 37.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.31$ , $\langle L^2 \rangle = 0.15$	Xtrriage
Estimated twinning fraction	0.166 for h,-k,-l	Xtrriage
$F_o, F_c$ correlation	0.90	EDS
Total number of atoms	151017	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	147.0	wwPDB-VP

Xtrriage'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.*

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

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

## 5 Model quality i

### 5.1 Standard geometry i

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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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 [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	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:782:A:C2	38:BD:226:MET:HG2	1.73	1.24
35:BA:1922:G:O2'	35:BA:1923:U:H5'	1.33	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
24:AY:184:HIS:CE1	24:AY:191:TYR:CE1	2.34	1.16
35:BA:2014:A:H2'	35:BA:2015:A:N7	1.58	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
2:AB:220:ASP:HA	2:AB:223:ILE:HD12	1.26	1.16
24:AY:74:VAL:CG2	24:AY:87:LEU:HD23	1.73	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
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
42:BH:106:THR:HG21	42:BH:112:PRO:CA	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
22:AV:61:C:H3'	22:AV:62:C:H5''	1.15	1.13
24:AY:189:GLU:O	24:AY:189:GLU:HG3	1.45	1.13
38:BD:176:ARG:HH11	38:BD:176:ARG:HG2	0.98	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
21:AU:10:ARG:HA	21:AU:13:ILE:HD12	1.30	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
10:AJ:50:ILE:HA	10:AJ:60:ARG:HG2	1.31	1.12
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
52:BU:101:ARG:O	52:BU:103:PRO:HD3	1.46	1.12
24:AY:181:GLY:CA	24:AY:263:PHE:HE1	1.63	1.12
24:AY:307:MET:O	24:AY:307:MET:SD	2.07	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
46:BO:61:VAL:HG12	46:BO:87:ILE:HD11	1.31	1.12
56:BY:7:VAL:HB	56:BY:8:LYS:HD2	1.31	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
55:BX:12:VAL:HB	55:BX:17:ALA:HB1	1.21	1.12
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.27	1.11
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.20	1.11
24:AY:222:ASP:O	24:AY:226:GLN:HB2	1.47	1.11
38:BD:147:LEU:H	38:BD:154:LYS:HD2	1.02	1.11
53:BV:96:ILE:HD13	53:BV:96:ILE:H	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
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:6:VAL:HG12	40:BF:7:TYR:H	1.07	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
1:AA:975:A:H4'	1:AA:976:G:H5''	1.30	1.10
1:AA:1053:G:H4'	1:AA:1054: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
24:AY:307:MET:HG2	24:AY:312:ARG:HA	1.25	1.10
35:BA:330:A:H2	35:BA:1210:A:H2'	1.16	1.10
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	1.26	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
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
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
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
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
12:AL:36:VAL:HG21	24:AY:406:PRO:HG2	1.17	1.09
12:AL:126:LYS:HB3	24:AY:487:ARG:NH2	1.66	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
24:AY:443:VAL:HG23	24:AY:444:LEU:H	1.06	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
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
24:AY:168:PRO:CB	24:AY:171:TRP:CZ2	2.36	1.08
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.31	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
15:AO:4:THR:HB	15:AO:7:GLU:CB	1.84	1.08
35:BA:833:U:H5''	47:BP:48:PRO:HG3	1.31	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
57:BZ:150:LEU:HG	57:BZ:171:ILE:HD11	1.10	1.08
7:AG:29:LYS:HE2	7:AG:102:ARG:HA	1.33	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
57:BZ:56:VAL:HG22	57:BZ:70:LEU:HD13	1.36	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
1:AA:1442(A):G:H22	51:BT:121:ILE:HG12	1.15	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
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
15:AO:39:LEU:CB	15:AO:56:LEU:HD21	1.83	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:138:LEU:HD23	24:AY:253:PRO:CG	1.85	1.07
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.34	1.07
35:BA:2594:C:H2'	35:BA:2595:G:H8	1.12	1.07
37:BC:86:ALA:HB3	37:BC:94:VAL:HG11	1.30	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
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:HB2	39:BE:199:ARG:NH1	1.70	1.07
47:BP:113:LYS:HB2	47:BP:129:ALA:HB3	1.37	1.07
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.37	1.06
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:547:A:H2'	35:BA:548:A:H8	1.14	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
24:AY:373:ILE:HG22	24:AY:374:GLN:H	1.19	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
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
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
41:BG:101:ILE:HG22	41:BG:105:LYS:NZ	1.69	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
24:AY:453:LEU:HB3	24:AY:459:VAL:HG23	1.35	1.05
56:BY:14:LEU:HB3	56:BY:73:ARG:HB2	1.31	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
24:AY:183:TYR:CE2	24:AY:189:GLU:N	2.23	1.05
27:B2:35:LEU:HD11	27:B2:50:ILE:HG13	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
52:BU:28:ARG:HH11	52:BU:38:THR:HG23	1.18	1.05
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.37	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
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
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
24:AY:473:TRP:CZ3	24:AY:500:ASN:CB	2.40	1.04
35:BA:140:G:H1'	35:BA:141:A:H2	1.17	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
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:1007:C:H5''	45:BN:35:ARG:NH1	1.72	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
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
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.18	1.04
24:AY:111:MET:HE3	24:AY:139:THR:HG23	1.34	1.04
31:B6:33:LYS:HE2	31:B6:33:LYS:HA	1.36	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
39:BE:171:GLU:HB2	39:BE:185:LYS:HG2	1.40	1.04
1:AA:977:A:O2'	1:AA:978:A:H5''	1.57	1.03
3:AC:54:ARG:O	3:AC:55:VAL:HG23	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)
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
46:BO:60:ALA:HA	46:BO:87:ILE:HG12	1.36	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
24:AY:182:VAL:HG12	24:AY:183:TYR:H	1.24	1.03
38:BD:60:ARG:HD2	38:BD:86:PRO:HB2	1.34	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:H	6:AF:98:LEU:HD12	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:271(L):U:H5''	35:BA:271(M):G:H5'	1.40	1.03
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.07	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
1:AA:1266:G:N2	1:AA:1268:A:H5''	1.72	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
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:272(H):C:H2'	35:BA:272(I):U:H5''	1.41	1.02
35:BA:631:A:H5''	47:BP:65:ARG:NH1	1.74	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:2833:G:H3'	35:BA:2834:G:H5''	1.06	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:72:THR:HG22	24:AY:90:PRO:HD3	1.42	1.02
24:AY:146:ARG:HG3	24:AY:146:ARG:HH11	1.23	1.02
30:B5:25:LEU:HD13	54:BW:23:LEU:HD22	1.34	1.02
35:BA:1434:A:H2'	35:BA:1435:G:C8	1.94	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
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
51:BT:33:LYS:HG3	51:BT:43:GLN:HB2	1.40	1.02
5:AE:70:PRO:HG3	5:AE:142:LEU:HB3	1.39	1.01
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
39:BE:77:ILE:HG22	39:BE:78:LEU:H	1.23	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
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.75	1.01
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.40	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
24:AY:105:ALA:HA	24:AY:319:ARG:NH1	1.75	1.01
24:AY:223:LEU:HG	42:BH:97:ARG:HH12	1.23	1.01
31:B6:14:THR:HG22	31:B6:50:ARG:HB2	1.42	1.01
35:BA:662:G:OP1	47:BP:18:ARG:HD2	1.61	1.01
35:BA:1539:G:C2	35:BA:1540:U:H1'	1.95	1.01
35:BA:1892:C:H2'	35:BA:1893:C:H5'	1.42	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
35:BA:705:A:C2	35:BA:727:A:H1'	1.96	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
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.60	1.01
47:BP:7:ARG:HA	47:BP:7:ARG:HH11	1.23	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:H8	35:BA:613:G:H5'	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:C	24:AY:263:PHE:CD2	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:401:C:H2'	1:AA:402:G:H8	1.24	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
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
51:BT:90:GLN:HG2	51:BT:120:ARG:NH2	1.76	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
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.60	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
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	1.96	1.00
39:BE:3:GLY:HA3	39:BE:81:ILE:HD12	1.43	1.00
39:BE:47:VAL:HG23	39:BE:84:PHE:O	1.61	1.00
47:BP:47:ASP:HB3	47:BP:48:PRO:CA	1.92	1.00
47:BP:71:VAL:H	47:BP:72:PRO:CD	1.72	1.00
51:BT:46:GLU:O	51:BT:65:LYS:HD2	1.60	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:105:ALA:CA	24:AY:319:ARG:HH11	1.76	0.98
24:AY:110:LEU:HD13	24:AY:268:MET:HE1	1.40	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:797:C:H2'	35:BA:798:G:C8	1.97	0.97
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.00	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
35:BA:631:A:OP1	47:BP:64:LYS:HE3	1.61	0.97
36:BB:57:A:H8	41:BG:27:ASN:HD21	1.07	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
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
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:H2'	35:BA:1924:C:OP2	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:H	50:BS:12:PHE:HD1	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:754:C:H2'	35:BA:755:C:C6	2.00	0.97
35:BA:1528(A):A:H62	35:BA:1541:G:N2	1.63	0.97
51:BT:58:ASN:H	51:BT:58:ASN:ND2	1.57	0.97
1:AA:754:C:H4'	15:AO:72:ARG:HH12	1.30	0.97
2:AB:172:ILE:H	2:AB:172:ILE:HD12	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:HB2	48:BQ:10:ARG:HH11	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:HO5'	22:AV:1:C:H6	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
33:B8:13:ARG:HD2	47:BP:61:ARG:HH11	1.27	0.96
39:BE:54:GLN:O	39:BE:75:VAL:HG23	1.65	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:740:U:OP2	15:AO:2:PRO:HB3	1.66	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
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: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
35:BA:2086:U:H2'	35:BA:2087:G:H8	1.25	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:272(J):C:H2'	35:BA:274:G:H5''	1.45	0.96
35:BA:1845:G:H2'	35:BA:1846:G:H8	1.30	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:H	41:BG:52:ILE:HD13	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
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.01	0.95
15:AO:29:VAL:HG21	15:AO:67:LEU:HD21	1.48	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:925:C:H2'	35:BA:926:A:H5''	1.46	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
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:782:A:H2	38:BD:226:MET:HG2	1.31	0.95
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.67	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:101:ARG:CZ	24:AY:390:ILE:HG23	1.97	0.94
24:AY:335:ARG:HG2	24:AY:335:ARG:HH21	1.32	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: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
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
50:BS:36:TYR:N	50:BS:36:TYR:HD1	1.65	0.94
57:BZ:141:VAL:HA	57:BZ:144:LEU:HD23	1.45	0.94
19:AS:6:LYS:N	19:AS:6:LYS:HD2	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:94:ASP:CG	24:AY:442:GLY:HA3	1.88	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

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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
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	1.98	0.94
24:AY:201:ILE:HG23	24:AY:262:ASN:HB3	1.49	0.94
35:BA:532:A:HO2'	35:BA:2021:C:H5	1.10	0.94
35:BA:786:C:H2'	35:BA:787:U:C6	2.02	0.94
35:BA:2100:G:H3'	35:BA:2101:G:C8	2.03	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
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:143:G:C1'	55:BX:37:THR:HG21	1.98	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
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:34:VAL:HG22	10:AJ:74:ILE:HG22	1.50	0.93
10:AJ:43:ARG:HB2	10:AJ:67:THR:HG23	1.51	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:HH11	38:BD:176:ARG:CG	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:53:ASP:O	4:AD:56:VAL:HG23	1.67	0.93
4:AD:99:SER:CB	4:AD:139:ARG:HG3	1.99	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: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
35:BA:1141:U:OP2	45:BN:63:THR:HG23	1.69	0.92
35:BA:1892:C:H2'	35:BA:1893:C:C5'	1.99	0.92
38:BD:9:TYR:HD1	38:BD:10:THR:N	1.67	0.92
38:BD:164:GLN:O	38:BD:175:LEU:HD22	1.69	0.92
42:BH:106:THR:CG2	42:BH:112:PRO:HA	1.98	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
35:BA:1097:U:O2'	44:BK:6:UNK:HA	1.69	0.92
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.05	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
32:B7:40:TRP:CH2	35:BA:459:U:H4'	2.05	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B9:36:GLN:HE22	35:BA:1031:G:H21	1.08	0.92
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
38:BD:9:TYR:HD1	38:BD:10:THR:H	0.98	0.92
55:BX:80:ILE:O	55:BX:80:ILE:HG13	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:HD13	24:AY:431:ILE:H	1.34	0.91
35:BA:579:G:H5''	35:BA:2018:G:H5''	1.49	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
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:471:A:H2'	35:BA:472:A:H5''	1.52	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
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:HD12	55:BX:8:ILE:H	1.36	0.91
24:AY:168:PRO:HB3	24:AY:171:TRP:CZ2	2.05	0.91
35:BA:432:A:H2'	35:BA:433:C:C6	2.06	0.91
35:BA:2023:G:H1	35:BA:2040:C:H42	1.18	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)
12:AL:36:VAL:CG2	24:AY:406:PRO:HG2	2.01	0.91
15:AO:68:ARG:O	15:AO:72:ARG:N	2.02	0.91
24:AY:419:LEU:HD13	24:AY:449:VAL:HG12	1.52	0.91
45:BN:40:PRO:O	52:BU:64:ARG:NH1	2.03	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
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:94(A):G:C2'	35:BA:95:G:H5''	2.00	0.91
35:BA:1845:G:H2'	35:BA:1846:G:C8	2.05	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:33:VAL:HG12	24:AY:34:LEU:HD23	1.51	0.91
24:AY:140:PHE:CZ	24:AY:257:GLY:O	2.23	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:HB3	51:BT:85:LYS:NZ	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
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.01	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
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:138:LEU:HB2	24:AY:268:MET:HE1	1.53	0.90
24:AY:210:LEU:O	24:AY:215:LEU:HD22	1.71	0.90
48:BQ:63:LYS:HG3	57:BZ:175:VAL:HG21	1.52	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
1:AA:923:A:OP1	5:AE:21:ALA:HB2	1.70	0.90
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.53	0.90
4:AD:102:ASP:HB3	4:AD:121:VAL:HG21	1.52	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
1:AA:1423:G:H5''	46:BO:49:ARG:HH22	1.36	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
35:BA:2758:A:N6	42:BH:67:LEU:HD11	1.86	0.90
40:BF:5:ALA:HB2	40:BF:24:LEU:HD11	1.51	0.90
43:BJ:27:UNK:CB	43:BJ:113:UNK:HA	2.02	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:HD22	51:BT:58:ASN:N	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
33:B8:13:ARG:HD2	47:BP:61:ARG:NH1	1.85	0.90
38:BD:91:ARG:O	38:BD:107:ALA:HB2	1.71	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:57:GLU:O	7:AG:60:LYS:HB3	1.72	0.90
7:AG:121:ALA:O	7:AG:125:MET:HG3	1.70	0.90
25:B0:37:LEU:HD21	25:B0:60:PHE:HA	1.54	0.90
35:BA:469:G:OP1	40:BF:78:ILE:HD11	1.71	0.90
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.72	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:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.51	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
35:BA:484:C:OP1	56:BY:49:VAL:HG13	1.71	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:2744:G:N2	42:BH:143:GLN:NE2	2.19	0.89
37:BC:24:GLU:HA	37:BC:27:HIS:HB2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:63:ILE:HD12	41:BG:141:PHE:CE2	2.06	0.89
1:AA:180:U:H2'	1:AA:181:G:H5'	1.54	0.89
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.52	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:900:A:H5'	35:BA:901:A:OP2	1.72	0.89
35:BA:2839:G:OP1	49:BR:46:GLY:HA3	1.73	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:720:C:H1'	18:AR:50:ILE:HG21	1.54	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
35:BA:2838:G:O2'	49:BR:45:ARG:HD3	1.71	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
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:425:VAL:CG1	24:AY:445:GLN:HG3	2.03	0.89
24:AY:443:VAL:HG23	24:AY:444:LEU:N	1.88	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:O	37:BC:2:LYS:HD3	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:HB3	11:AK:126:ARG:NH1	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:NH1	57:BZ:20:ARG:HB2	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:581:C:H2'	35:BA:582:G:H8	1.36	0.88
35:BA:1750:G:O2'	35:BA:1751:C:H5'	1.73	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:HH11	51:BT:16:ARG:HB3	1.38	0.88
52:BU:36:ARG:HH11	52:BU:36:ARG:HB3	1.37	0.88
1:AA:186:C:H5'	20:AT:78:ALA:HB1	1.55	0.88
1:AA:1204:A:H2'	1:AA:1205:U:C6	2.09	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:576:U:H2'	35:BA:577:G:C8	2.08	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
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:271(P):C:O2'	35:BA:271(Q):G:H5'	1.74	0.88
35:BA:2431:U:H6	35:BA:2433:A:OP2	1.57	0.88
49:BR:47:PHE:C	49:BR:51:LEU:HD13	1.94	0.88
15:AO:85:LEU:N	15:AO:85:LEU:HD23	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:8:TYR:HD2	57:BZ:38:TYR:HH	0.95	0.88
57:BZ:162:GLU:O	57:BZ:163:LEU:HD23	1.74	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
35:BA:954:G:H4'	48:BQ:13:GLN:OE1	1.72	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
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:62:MET:HG2	24:AY:451:ALA:HB3	1.55	0.87
24:AY:138:LEU:CD2	24:AY:253:PRO:CG	2.49	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:56:GLN:HA	37:BC:201:PRO:HB3	1.55	0.87
37:BC:156:ILE:HA	37:BC:160:ARG:HB2	1.56	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
35:BA:636:G:H2'	47:BP:115:LEU:HD12	1.54	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
5:AE:129:ILE:HD12	5:AE:129:ILE:N	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:81:G:H21	56:BY:2:ARG:HH12	1.18	0.87
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.09	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:621:A:H2'	35:BA:622:G:H5'	1.54	0.87
35:BA:1367:A:H2'	35:BA:1368:G:H5'	1.57	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:85:LYS:HZ2	42:BH:87:LEU:HD12	1.35	0.87
42:BH:162:ILE:O	42:BH:162:ILE:HD13	1.75	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:857:C:H42	35:BA:920:G:H1	1.18	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
37:BC:47:LEU:HD11	37:BC:171:ILE:HD12	1.55	0.87
38:BD:35:LYS:H	38:BD:36:PRO:CD	1.86	0.87
38:BD:144:ALA:HB3	38:BD:192:THR:HG21	1.56	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:681:C:H5''	38:BD:174:ILE:HD12	1.57	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
42:BH:105:LEU:HD22	42:BH:105:LEU:H	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:672:C:C2'	35:BA:673:C:H5''	2.05	0.86
35:BA:1948:G:O2'	35:BA:1949:G:H5'	1.72	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:790:A:H61	1:AA:1498:U:P	1.97	0.86
1:AA:1452:C:H5'	1:AA:1456:G:N1	1.90	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:884:C:C3'	35:BA:885:C:H5''	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2388:A:H5'	35:BA:2389:G:OP2	1.72	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:HD12	2:AB:80:ILE:H	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
25:B0:43:THR:N	35:BA:2331:G:H4'	1.89	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
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.05	0.86
38:BD:24:ILE:HD11	38:BD:91:ARG:CB	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: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:HA	31:B6:35:GLU:OE1	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:373:U:H2'	35:BA:374:A:H8	1.38	0.86
35:BA:1892:C:C2'	35:BA:1893:C:H5''	2.05	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:H8	35:BA:1678:G:O5'	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
1:AA:192:U:H5'	20:AT:102:GLY:O	1.75	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
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
1:AA:585:G:H4'	12:AL:8:ASN:HD22	1.39	0.86
5:AE:11:ILE:HD13	5:AE:105:VAL:HG13	1.58	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: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
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
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:HD23	13:AM:90:LEU:H	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:500:G:H22	35:BA:502:A:H3'	1.38	0.85
35:BA:871:U:H4'	48:BQ:69:PHE:CZ	2.12	0.85
35:BA:872:A:H5'	48:BQ:69:PHE:HE2	1.37	0.85
35:BA:1258:C:H1'	40:BF:84:VAL:HG21	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
42:BH:98:LEU:CB	42:BH:125:VAL:HG21	2.06	0.85
42:BH:132:ARG:HG2	42:BH:133:VAL:H	1.32	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
52:BU:106:PHE:HA	52:BU:109:LEU:HD12	1.58	0.85
57:BZ:18:LEU:H	57:BZ:18:LEU:HD22	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:949:A:C2'	1:AA:950:U:H5'	2.06	0.85
1:AA:1484:C:O2'	35:BA:1961:C:H5'	1.75	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:729:G:O2'	35:BA:763:G:H4'	1.75	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
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:540:C:H2'	35:BA:541:C:C6	2.11	0.85
35:BA:877:U:O2'	35:BA:878:A:H5''	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:962:G:N2	35:BA:963:U:H1'	1.91	0.85
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.06	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
1:AA:658:G:O2'	15:AO:22:THR:HG21	1.77	0.85
9:AI:5:TYR:O	9:AI:84:ALA:HA	1.74	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: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
35:BA:1071:G:H5'	35:BA:1088:A:O2'	1.76	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:803:U:C2'	35:BA:804:A:H5'	2.07	0.85
35:BA:1516:C:H2'	35:BA:1517:G:H5''	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.12	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:HH11	54:BW:88:ARG:HG2	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:2784:C:C1'	39:BE:37:ARG:HH12	1.89	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
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
30:B5:30:LEU:HD11	54:BW:34:ASN:O	1.77	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:H	40:BF:28:ILE:HD13	1.41	0.84
45:BN:26:LEU:O	45:BN:30:ILE:HG13	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
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.07	0.84
35:BA:999:U:H5	35:BA:1154:G:C5	1.94	0.84
35:BA:1038:C:C2'	35:BA:1039:G:H5''	2.07	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
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.12	0.84
45:BN:61:ARG:HH11	45:BN:61:ARG:HG3	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
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
35:BA:2491:U:H5'	35:BA:2570:G:H5''	1.60	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:36:VAL:CG1	24:AY:406:PRO:HB3	2.07	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
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:43:ASN:HB3	56:BY:64:GLU:HA	1.59	0.84
56:BY:49:VAL:O	56:BY:50:ARG:HB2	1.76	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:77:ALA:HB2	2:AB:211:ILE:HD13	1.60	0.83
2:AB:127:ILE:HA	2:AB:135:GLN:HE22	1.42	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:6:A:H2'	35:BA:7:G:C8	2.13	0.83
35:BA:272(J):C:C2'	35:BA:274:G:H5''	2.07	0.83
35:BA:1914:C:H5'	35:BA:1914:C:O2	1.78	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:47:LEU:HD12	37:BC:47:LEU:N	1.92	0.83
37:BC:76:ALA:HB2	37:BC:153:ILE:HD11	1.60	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:HB3	4:AD:187:ARG:NH1	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:612:C:C2'	35:BA:613:G:H5''	2.09	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
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:858:G:O2'	1:AA:859:A:H5''	1.79	0.83
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1489:G:H2'	1:AA:1490:C:C6	2.13	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:H	51:BT:58:ASN:HD22	0.84	0.83
52:BU:59:ARG:O	52:BU:63:VAL:HG23	1.76	0.83
1:AA:580:U:H2'	1:AA:581:G:O4'	1.77	0.83
1:AA:619:U:H2'	4:AD:135:LEU:HD21	1.58	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:1521:G:H2'	1:AA:1522:U:C6	2.14	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:909:A:H2'	35:BA:912:C:H41	1.42	0.83
35:BA:2509:G:O2'	35:BA:2510:C:H5'	1.79	0.83
37:BC:47:LEU:CD1	37:BC:171:ILE:HB	2.09	0.83
42:BH:105:LEU:H	42:BH:105:LEU:CD2	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:11:ALA:HA	24:AY:279:PRO:HD2	1.58	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
35:BA:721:C:H3'	35:BA:722:A:H8	1.44	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
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:112:G:C5'	1:AA:389:A:H4'	2.08	0.83
1:AA:1283:G:HO2'	1:AA:1284:C:H6	1.19	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:B8:8:LYS:HZ2	33:B8:11:LYS:HE2	1.44	0.83
33:B8:19:SER:HB2	33:B8:21:LYS:HE3	1.57	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
38:BD:69:ARG:NE	38:BD:105:ILE:HD11	1.93	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:HD22	24:AY:403:LEU:H	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:10:VAL:HG11	24:AY:291:ALA:HB1	1.61	0.82
24:AY:104:THR:O	24:AY:105:ALA:HB2	1.77	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:210:C:H2'	35:BA:211:A:C8	2.14	0.82
35:BA:814:C:OP1	53:BV:84:LYS:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:996:A:H4'	52:BU:92:ARG:NE	1.94	0.82
35:BA:1854:A:H62	35:BA:1888:G:H8	1.24	0.82
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
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
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:HH11	38:BD:14:ARG:HG2	1.42	0.82
48:BQ:55:VAL:HA	48:BQ:58:PHE:CE1	2.13	0.82
48:BQ:134:ARG:NH1	57:BZ:122:ARG:NH2	2.25	0.82
1:AA:80:G:H3'	1:AA:81:U:H5'	1.62	0.82
1:AA:1495:U:H2'	1:AA:1496:C:H5'	1.58	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:C8	35:BA:2439:A:H5'	2.13	0.82
35:BA:2591:C:P	38:BD:239:ARG:HG3	2.19	0.82
37:BC:64:LEU:HD13	37:BC:175:VAL:O	1.79	0.82
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.03	0.82
51:BT:11:GLU:CD	51:BT:11:GLU:H	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:92:C:H2'	1:AA:93:G:H8	1.45	0.82
1:AA:668:G:O2'	15:AO:46:HIS:HB3	1.79	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
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
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:244:A:H5'	35:BA:245:G:OP2	1.77	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
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:2853:C:H2'	35:BA:2854:G:C8	2.15	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
35:BA:833:U:H5''	47:BP:48:PRO:CB	2.09	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
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:O	24:AY:189:GLU:CG	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:873:G:O2'	35:BA:874:G:H5'	1.80	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
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:HB2	48:BQ:10:ARG:NH1	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
1:AA:1498:U:C4	23:AX:17:U:H4'	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:730:C:H2'	35:BA:731:C:C6	2.13	0.82
35:BA:1327:C:H2'	35:BA:1328:G:O4'	1.80	0.82
35:BA:1805:U:H5'	38:BD:250:TRP:CE3	2.14	0.82
35:BA:1819:A:H5''	38:BD:158:ALA:HB2	1.60	0.82
35:BA:1998:G:H4'	35:BA:2724:C:H4'	1.60	0.82
38:BD:243:GLY:O	38:BD:244:ARG:HB3	1.79	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:740:U:H2'	35:BA:741:G:C8	2.14	0.82
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.15	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
33:B8:12:LYS:HD3	47:BP:68:GLN:HG3	1.62	0.82
35:BA:572:A:H2'	35:BA:573:G:O4'	1.80	0.82
35:BA:1839:G:C8	35:BA:1927:A:H1'	2.15	0.82
35:BA:1924:C:H2'	35:BA:1924:C:P	2.19	0.82
35:BA:2391:G:C6	35:BA:2427:C:H1'	2.14	0.82
35:BA:2684:U:C1'	46:BO:70:LYS:HD2	2.09	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:94(A):G:H2'	35:BA:95:G:C5'	2.10	0.81
35:BA:673:C:H5'	35:BA:673:C:H6	1.45	0.81
35:BA:1958:C:O2'	35:BA:1959:G:H5'	1.80	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
14:AN:13:THR:N	14:AN:14:PRO:CD	2.42	0.81
15:AO:25:THR:OG1	15:AO:70:LEU:HD21	1.79	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
28:B3:8:LEU:HD22	28:B3:32:GLN:H	1.44	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: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:2057:A:H2'	35:BA:2058:A:C8	2.15	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:2459:A:N6	35:BA:2493:U:H3	1.78	0.81
35:BA:2489:G:H8	35:BA:2489:G:O5'	1.62	0.81
35:BA:2868:A:H2'	35:BA:2869:G:C8	2.15	0.81
38:BD:71:ASP:HB3	38:BD:103:ARG:HH12	1.45	0.81
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.14	0.81
40:BF:24:LEU:O	40:BF:115:ALA:HB1	1.79	0.81
45:BN:44:PRO:O	45:BN:45:ASN:HB3	1.80	0.81
46:BO:88:ASN:ND2	46:BO:92:GLU:HB3	1.95	0.81
46:BO:89:ASN:C	46:BO:91:LEU:H	1.83	0.81
49:BR:79:LEU:O	49:BR:79:LEU:HD22	1.80	0.81
52:BU:80:ILE:O	52:BU:84:LYS:HB2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:24:GLY:O	55:BX:82:GLN:HA	1.79	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:42:ILE:HD12	2:AB:203:GLY:CA	2.09	0.81
2:AB:84:GLU:OE1	2:AB:216:SER:HA	1.80	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:908:C:O2'	35:BA:909:A:H5'	1.80	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
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
1:AA:1283:G:O2'	1:AA:1284:C:H6	1.64	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: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
35:BA:2484:G:H1'	48:BQ:124:LYS:HD2	1.62	0.81
38:BD:263:ARG:HH11	38:BD:263:ARG:CG	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: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
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
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:67:U:H2'	35:BA:68:G:C8	2.16	0.81
35:BA:565:C:OP2	53:BV:78:LYS:HG3	1.80	0.81
35:BA:589:C:H2'	35:BA:590:A:H8	1.46	0.81
35:BA:2115:G:H22	35:BA:2119:A:P	2.04	0.81
36:BB:75:G:O2'	57:BZ:10:ARG:NH2	2.14	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
6:AF:87:ARG:HH11	6:AF:87:ARG:CG	1.94	0.81
13:AM:91:ARG:H	13:AM:94:ARG:HB2	1.44	0.81
24:AY:103:LEU:H	24:AY:103:LEU:HD12	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:628:G:H2'	35:BA:629:G:C5'	2.11	0.81
35:BA:1121:C:H2'	35:BA:1122:G:C8	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2184:G:H2'	35:BA:2185:C:H1'	1.61	0.81
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
37:BC:3:HIS:HB3	37:BC:7:TYR:HD2	1.45	0.81
37:BC:47:LEU:HD21	37:BC:171:ILE:HD12	1.63	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:59:A:O2'	1:AA:388:G:H3'	1.81	0.80
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.16	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:90:PRO:HD2	24:AY:99:THR:HG21	1.63	0.80
24:AY:403:LEU:HD22	24:AY:403:LEU:N	1.96	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: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
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
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:HA	41:BG:113:ARG:HE	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:57:C:O2'	35:BA:58:G:H5'	1.79	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
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:HH11	52:BU:36:ARG:CB	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:143:G:H4'	55:BX:35:THR:HG21	1.63	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
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
33:B8:25:MET:CG	47:BP:64:LYS:HB2	2.12	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

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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: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
35:BA:1058:G:H2'	35:BA:1059:G:H5''	1.64	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:759:A:H1'	12:AL:12:ARG:NH2	1.97	0.80
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.47	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:76:GLN:HE21	24:AY:85:ASN:HD21	1.29	0.80
24:AY:155:LEU:HD12	24:AY:155:LEU:H	1.47	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:239:U:H1'	35:BA:259:G:H22	1.47	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: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:66:PRO:HB2	40:BF:70:THR:HG23	1.63	0.80
40:BF:154:VAL:CG1	40:BF:193:VAL:HG23	2.11	0.80
42:BH:151:ILE:HD12	42:BH:151:ILE:N	1.96	0.80
48:BQ:63:LYS:HG3	57:BZ:175:VAL:CG2	2.12	0.80
49:BR:63:ARG:HB2	49:BR:63:ARG:HH11	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
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:108:CYS:HB2	24:AY:136:PRO:HG2	1.64	0.80
24:AY:135:THR:HG22	24:AY:136:PRO:HD2	1.60	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:B1:3:LYS:HG3	35:BA:1365:A:OP2	1.82	0.80
26:B1:14:VAL:CG2	35:BA:188:G:H5'	2.12	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: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
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
38:BD:182:LEU:N	38:BD:272:ALA:HB2	1.95	0.80
38:BD:248:SER:OG	38:BD:252:TRP:CD2	2.34	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:254:G:OP1	17:AQ:67:LYS:O	2.00	0.79
1:AA:275:G:H2'	1:AA:276:G:H8	1.46	0.79
1:AA:1481:U:H2'	1:AA:1482:G:H8	1.47	0.79
8:AH:46:LYS:HE2	8:AH:64:LYS:HA	1.64	0.79
19:AS:16:LEU:HD12	19:AS:16:LEU:N	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:606:U:H4'	35:BA:658:C:H4'	1.64	0.79
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.11	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:838:G:H2'	1:AA:839:U:H5''	1.61	0.79
1:AA:1452:C:H5'	1:AA:1456:G:C2	2.17	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:1223:C:P	19:AS:78:ARG:HH21	2.04	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
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:18:GLY:N	2:AB:42:ILE:HG22	1.93	0.79
2:AB:115:LEU:CD1	2:AB:145:LEU:HD12	2.12	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:H6	35:BA:2772:C:O5'	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:975:A:H8	1:AA:975:A:H5'	1.48	0.79
1:AA:1406:U:O2	1:AA:1518:A:H1'	1.80	0.79
1:AA:1493:A:N3	1:AA:1493:A:H3'	1.97	0.79
9:AI:46:ALA:HB2	9:AI:74:ILE:HG22	1.63	0.79
24:AY:138:LEU:HB3	24:AY:255:PHE:CE1	2.17	0.79
24:AY:146:ARG:HG3	24:AY:146:ARG:NH1	1.92	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:193:U:O2'	35:BA:194:G:H5'	1.82	0.79
35:BA:654(J):A:H8	35:BA:654(L):G:H1'	1.47	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:2801(A):A:H5'	35:BA:2802:G:H8	1.46	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
1:AA:702:A:N6	35:BA:1846:G:H5''	1.97	0.79
24:AY:315:VAL:HG21	24:AY:346:LEU:CD1	2.12	0.79
24:AY:336:THR:O	24:AY:337:ALA:CB	2.31	0.79
24:AY:473:TRP:HH2	24:AY:500:ASN:CB	1.80	0.79
32:B7:38:GLY:O	35:BA:458:G:H2'	1.82	0.79
35:BA:1911:U:C2'	35:BA:1918:A:N1	2.43	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: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
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
2:AB:88:ALA:O	2:AB:90:MET:HG2	1.82	0.79
2:AB:172:ILE:H	2:AB:172:ILE:CD1	1.95	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
25:B0:14:ARG:HD2	35:BA:2279:G:O6	1.83	0.79
35:BA:210:C:H2'	35:BA:211:A:H8	1.45	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
35:BA:1434:A:H2'	35:BA:1435:G:H8	1.47	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
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:818:G:H8	35:BA:818:G:O5'	1.64	0.79
35:BA:1190:G:H5'	47:BP:35:HIS:N	1.97	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
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

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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
42:BH:132:ARG:O	42:BH:133:VAL:HG23	1.83	0.79
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
1:AA:1442(A):G:N2	51:BT:121:ILE:HG12	1.97	0.78
1:AA:1494:G:C6	1:AA:1495:U:O4	2.36	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:70:ILE:HG12	24:AY:95:PHE:CZ	2.18	0.78
24:AY:183:TYR:CE2	24:AY:189:GLU:CA	2.65	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:NH1	47:BP:16:ARG:HB2	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:HD2	56:BY:8:LYS:H	1.48	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
1:AA:1195:C:H2'	1:AA:1197:G:O4'	1.83	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:83:G:N2	35:BA:102:G:H2'	1.98	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: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:2870:C:H5''	49:BR:65:LEU:HD21	1.66	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
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:997:G:O2'	35:BA:998:C:H5'	1.83	0.78
35:BA:1598:C:H5'	55:BX:36:LYS:CD	2.13	0.78
35:BA:2101:G:H2'	35:BA:2102:U:H5''	1.65	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
1:AA:947:G:H8	1:AA:947:G:O5'	1.67	0.78
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.46	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:601:C:H4'	40:BF:108:LYS:HZ1	1.48	0.78
35:BA:1655:A:O3'	39:BE:115:GLY:HA3	1.82	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
33:B8:27:THR:CG2	47:BP:62:LEU:HD22	2.04	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
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:HH11	31:B6:18:ARG:HG2	1.47	0.78
35:BA:575:A:H2'	35:BA:576:U:C6	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:910:A:C2	48:BQ:13:GLN:NE2	2.52	0.78
35:BA:1498:C:H2'	35:BA:1499:C:H5'	1.66	0.78
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
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
1:AA:894:G:H2'	1:AA:895:G:H5'	1.64	0.78
1:AA:1117:G:O2'	9:AI:106:ALA:HB2	1.83	0.78
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.46	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
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: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
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
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:CZ	57:BZ:35:ARG:HA	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:692:C:H2'	35:BA:693:C:H6	1.50	0.78
35:BA:1791:A:H4'	38:BD:206:LEU:CD1	2.14	0.78
38:BD:213:ARG:HH12	38:BD:219:PRO:CD	1.95	0.78
40:BF:125:LEU:HD12	40:BF:196:LEU:CD2	2.14	0.78
40:BF:162:LEU:H	40:BF:162:LEU:HD12	1.49	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:HA	56:BY:73:ARG:HE	1.49	0.78
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
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
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:8:GLN:HG3	40:BF:9:ILE:H	1.49	0.77
40:BF:165:ARG:HA	40:BF:168:ARG:HH21	1.50	0.77
57:BZ:100:VAL:HG11	57:BZ:137:ILE:CG1	2.14	0.77
1:AA:436:C:H5''	4:AD:156:GLU:CD	2.04	0.77
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.99	0.77
9:AI:4:TYR:HD2	9:AI:85:LEU:HA	1.49	0.77
9:AI:104:ARG:HH11	9:AI:104:ARG:HG3	1.45	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: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:1639:U:H2'	35:BA:1640:C:H5''	1.66	0.77
35:BA:2223:G:C5'	38:BD:269:PHE:HZ	1.98	0.77
35:BA:2720:U:H3'	35:BA:2721:A:H8	1.49	0.77
51:BT:96:ARG:HB2	51:BT:96:ARG:HH11	1.49	0.77
52:BU:107:ALA:O	52:BU:110:VAL:HB	1.85	0.77
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.46	0.77
2:AB:122:PHE:HA	2:AB:139:LYS:NZ	1.99	0.77
5:AE:129:ILE:HD12	5:AE:129:ILE:H	1.47	0.77
8:AH:14:ARG:NE	8:AH:83:ILE:HG23	2.00	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:CB	12:AL:41:ARG:NH1	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: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
35:BA:2007:C:H4'	35:BA:2824:C:O2'	1.83	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:HG2	10:AJ:29:ARG:O	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
1:AA:681:C:C5'	38:BD:174:ILE:HD12	2.15	0.77
1:AA:1342:C:H5''	9:AI:125:TYR:HB3	1.66	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B1:48:LYS:HE3	26:B1:59:THR:HB	1.66	0.77
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
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
1:AA:230:G:OP1	16:AP:33:ILE:HD11	1.84	0.77
2:AB:162:ILE:O	2:AB:185:ILE:HD13	1.84	0.77
2:AB:204:ASN:HD22	2:AB:204:ASN:C	1.89	0.77
7:AG:126:ASP:HB2	7:AG:132:GLY:HA2	1.67	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
48:BQ:141:GLN:NE2	57:BZ:72:ARG:HA	2.00	0.77
53:BV:28:GLU:HB3	53:BV:29:PRO:HD2	1.65	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: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
35:BA:1830:C:H5'	38:BD:15:PHE:CE2	2.20	0.77
35:BA:1919:A:C3'	35:BA:1920:C:C5'	2.63	0.77
37:BC:175:VAL:HG13	37:BC:188:ASN:C	2.06	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: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
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
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:76:GLN:HE21	24:AY:85:ASN:CG	1.88	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
35:BA:811:U:C6	47:BP:24:GLY:O	2.37	0.77
35:BA:917:A:H2	36:BB:79:C:O2	1.68	0.77
35:BA:1070:A:N6	44:BK:7:UNK:O	2.18	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
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:63:LYS:HZ3	57:BZ:175:VAL:HG11	1.47	0.77
48:BQ:133:ARG:HG2	48:BQ:134:ARG:N	1.99	0.77
1:AA:381:C:H2'	1:AA:382:A:C8	2.20	0.76
1:AA:1346:A:H5'	9:AI:120:ARG:HH12	1.49	0.76
2:AB:67:THR:HA	2:AB:90:MET:HE1	1.65	0.76
2:AB:185:ILE:HD12	2:AB:185:ILE:N	2.00	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:9:G:OP2	5:AE:121:LYS:NZ	2.17	0.76
1:AA:937:A:H2'	1:AA:938:A:H8	1.48	0.76
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.49	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:628:G:H2'	35:BA:629:G:H5''	1.63	0.76
35:BA:2893:G:C5'	35:BA:2894:G:H5'	2.13	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:1791:A:H4'	38:BD:206:LEU:HD13	1.66	0.76
35:BA:2589:A:O2'	35:BA:2590:A:H5'	1.85	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
1:AA:702:A:H61	35:BA:1846:G:H5''	1.49	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:6:A:H2'	35:BA:7:G:H8	1.50	0.76
35:BA:535:C:H2'	35:BA:536:A:C8	2.21	0.76
35:BA:996:A:H4'	52:BU:92:ARG:HE	1.49	0.76
35:BA:1161:C:H2'	35:BA:1162:G:C8	2.19	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
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
1:AA:538:G:H5''	12:AL:114:LYS:HB2	1.67	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
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:78:LEU:HB3	51:BT:79:HIS:CE1	2.20	0.76
51:BT:90:GLN:CG	51:BT:120:ARG:HH22	1.98	0.76
51:BT:108:ARG:HA	51:BT:111:ARG:NH1	2.00	0.76
52:BU:92:ARG:HB2	53:BV:11:GLN:CD	2.05	0.76
1:AA:577:G:H22	1:AA:765:G:H1'	1.50	0.76
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.21	0.76
1:AA:1502:A:C2	1:AA:1504:G:C2	2.73	0.76
8:AH:9:MET:SD	8:AH:26:VAL:HG21	2.25	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
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
36:BB:81:G:H2'	36:BB:82:G:H5'	1.65	0.76
36:BB:91:C:OP2	48:BQ:16:ARG:HD2	1.85	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
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:HG2	21:AU:24:ARG:O	1.84	0.76
24:AY:457:TYR:CB	24:AY:459:VAL:HG22	2.16	0.76
35:BA:628:G:O2'	35:BA:629:G:H5''	1.85	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
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:7:GLY:O	49:BR:8:ARG:HB2	1.84	0.76
49:BR:96:ARG:O	49:BR:114:VAL:HA	1.86	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:588:U:H2'	35:BA:589:C:C6	2.21	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
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: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
1:AA:1001:A:N3	1:AA:1001:A:H2'	2.01	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:HG23	25:B0:43:THR:O	1.85	0.76
31:B6:38:LYS:HG2	31:B6:48:VAL:HG12	1.67	0.76
35:BA:308:G:H1'	35:BA:501:A:OP1	1.85	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
39:BE:144:ARG:HG2	39:BE:145:LYS:H	1.50	0.76
52:BU:34:LYS:HE2	52:BU:34:LYS:HA	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
33:B8:13:ARG:HH11	47:BP:61:ARG:HD2	1.49	0.76
35:BA:750:A:H2'	35:BA:751:A:H5''	1.68	0.76
35:BA:1321:A:H5'	35:BA:1322:A:OP2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2375:G:H1'	35:BA:2379:G:N2	2.01	0.76
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	1.86	0.76
39:BE:170:LEU:H	39:BE:170:LEU:HD12	1.49	0.76
47:BP:58:THR:O	47:BP:58:THR:HG22	1.86	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:78:PRO:HB3	24:AY:83:LEU:HB3	1.68	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
28:B3:4:LEU:HD12	28:B3:39:ASP:HA	1.68	0.75
35:BA:614(C):A:C2	40:BF:180:GLY:HA2	2.21	0.75
35:BA:2027:G:O2'	35:BA:2028:U:H5'	1.84	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: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
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
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:28:VAL:HG22	51:BT:47:GLY:N	2.00	0.75
51:BT:124:ASP:HB3	51:BT:125:ARG:HH12	1.49	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:953:A:H61	35:BA:964:C:H42	1.33	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
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:575:G:H4'	1:AA:576:G:O5'	1.85	0.75
1:AA:1491:G:C2'	1:AA:1492:A:C8	2.68	0.75
13:AM:90:LEU:HD23	13:AM:90:LEU:N	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:76:GLN:NE2	24:AY:85:ASN:ND2	2.32	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
30:B5:25:LEU:HG	54:BW:19:LEU:HG	1.67	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
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
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:H	34:B9:10:ILE:HD12	1.50	0.75
35:BA:606:U:H4'	35:BA:658:C:C4'	2.16	0.75
35:BA:1657:C:H5''	39:BE:133:LYS:O	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.68	0.75
39:BE:8:LYS:HA	39:BE:26:ILE:HG23	1.66	0.75
39:BE:101:ARG:HD2	39:BE:169:ASN:ND2	2.02	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:618:C:N4	1:AA:623:C:H42	1.83	0.75
1:AA:681:C:C4'	38:BD:174:ILE:HD12	2.16	0.75
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.86	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
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:6:LEU:HD23	47:BP:6:LEU:H	1.51	0.75
47:BP:80:TYR:CD1	47:BP:111:ARG:HB3	2.21	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:99:THR:O	24:AY:102:THR:N	2.19	0.75
24:AY:183:TYR:CE2	24:AY:189:GLU:C	2.60	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
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
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:16:A:C2'	1:AA:17:U:H5'	2.17	0.75
1:AA:954:G:O2'	13:AM:120:LYS:HD2	1.86	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
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
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:445:C:H5''	52:BU:3:ARG:HB3	1.69	0.75
35:BA:870:A:H5''	48:BQ:6:ARG:HB2	1.69	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
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
53:BV:2:PHE:O	53:BV:41:GLY:HA2	1.87	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
1:AA:1231:G:H4'	9:AI:126:SER:OG	1.87	0.75
1:AA:1394:A:C8	1:AA:1501:C:O2'	2.40	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
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:1007:C:H5''	45:BN:35:ARG:HH12	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.51	0.75
40:BF:131:GLY:CA	40:BF:138:GLU:HB3	2.16	0.75
47:BP:38:GLN:HG3	47:BP:39:LYS:N	2.00	0.75
47:BP:113:LYS:CB	47:BP:129:ALA:HB3	2.16	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:587:C:C4	47:BP:33:ARG:HG2	2.22	0.74
35:BA:2508:G:O2'	35:BA:2509:G:H5'	1.87	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
25:B0:26:TYR:HE2	35:BA:857:C:H1'	1.50	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
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
32:B7:40:TRP:CZ3	35:BA:459:U:H4'	2.22	0.74
35:BA:176:G:O2'	35:BA:177:G:H5'	1.87	0.74
35:BA:291:C:O2'	35:BA:292:C:H5'	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:729:G:H4'	35:BA:763:G:H5'	1.68	0.74
35:BA:1007:C:H5''	45:BN:35:ARG:HH11	1.49	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: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:H8	35:BA:2532:G:O5'	1.70	0.74
35:BA:2535:G:H2'	35:BA:2536:G:H8	1.52	0.74
41:BG:71:THR:HB	41:BG:89:GLY:O	1.88	0.74
41:BG:161:THR:HG21	41:BG:172:LEU:CD1	2.16	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:N	9:AI:99:LEU:HD22	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
25:B0:7:LEU:HD22	48:BQ:85:LYS:HG3	1.67	0.74
35:BA:234:C:H2'	35:BA:235:U:C6	2.22	0.74
35:BA:2180:U:H6	35:BA:2181:G:C8	2.05	0.74
48:BQ:29:PHE:CE2	48:BQ:67:ARG:NH2	2.47	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:721:C:H3'	35:BA:722:A:C8	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1188:U:H4'	53:BV:79:VAL:HG12	1.70	0.74
35:BA:1750:G:N3	35:BA:2860:A:H2	1.85	0.74
35:BA:1952:A:C6	46:BO:22:ILE:HD12	2.22	0.74
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
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
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: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:H8	35:BA:629:G:H5'	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
35:BA:1013:C:O2'	35:BA:1014:U:H5'	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:172:A:H8	1:AA:172:A:H5''	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
1:AA:1457:G:H2'	1:AA:1458:G:C8	2.22	0.74
8:AH:6:ILE:HD12	8:AH:6:ILE:N	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:61:G:H2'	35:BA:62:C:C6	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2826:A:H2'	35:BA:2827:C:H6	1.52	0.74
38:BD:198:ASN:C	38:BD:198:ASN:HD22	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:972:C:H4'	10:AJ:57:LYS:HG3	1.70	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
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
30:B5:25:LEU:CD1	54:BW:23:LEU:HD22	2.14	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
1:AA:80:G:C3'	1:AA:81:U:H5'	2.17	0.74
1:AA:635:G:O2'	1:AA:636:U:H5'	1.88	0.74
22:AV:26:G:H22	22:AV:44:A:H61	1.35	0.74
35:BA:957:A:C2	35:BA:2459:A:H5'	2.22	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
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:94:TYR:N	49:BR:94:TYR:CD1	2.46	0.74
49:BR:116:LEU:O	49:BR:117:VAL:HG12	1.88	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: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
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
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:N	24:AY:299:PHE:CD2	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:81:G:N2	56:BY:2:ARG:HH12	1.84	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:N3	35:BA:2894:G:H2'	2.03	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:44:GLY:O	41:BG:47:LYS:HE2	1.88	0.73
41:BG:102:PHE:C	41:BG:102:PHE:CD1	2.61	0.73
55:BX:12:VAL:HG12	55:BX:27:THR:C	2.07	0.73
57:BZ:20:ARG:HH11	57:BZ:20:ARG:CB	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:HA	29:B4:28:LYS:HE3	1.70	0.73
32:B7:44:PRO:HG2	35:BA:465:G:H5''	1.68	0.73
35:BA:404:C:H4'	35:BA:405:U:H5'	1.68	0.73
35:BA:861:A:C2	35:BA:862:G:Cl'	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:861:A:C2	35:BA:862:G:H1'	2.23	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
36:BB:41:U:H3	41:BG:70:VAL:HB	1.53	0.73
37:BC:47:LEU:HD11	37:BC:171:ILE:CD1	2.18	0.73
37:BC:139:ASN:OD1	37:BC:140:PRO:HD2	1.89	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
24:AY:223:LEU:CG	42:BH:97:ARG:HH12	2.00	0.73
34:B9:26:ILE:HG22	34:B9:27:CYS:N	2.01	0.73
35:BA:689:A:O2'	35:BA:690:G:H5'	1.88	0.73
35:BA:1786:A:C5	35:BA:1938:A:C2	2.76	0.73
37:BC:156:ILE:HA	37:BC:160:ARG:CB	2.16	0.73
38:BD:31:LYS:HG2	38:BD:33:LEU:CD2	2.17	0.73
38:BD:117:VAL:HG22	38:BD:129:ASN:OD1	1.87	0.73
41:BG:140:ILE:HD12	41:BG:140:ILE:C	2.08	0.73
42:BH:105:LEU:O	42:BH:105:LEU:HD23	1.87	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:76:ARG:O	39:BE:77:ILE:O	2.06	0.73
39:BE:105:THR:HG22	39:BE:106:GLY:H	1.52	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:58:GLU:HB2	3:AC:65:ALA:HB2	1.70	0.73
3:AC:114:PRO:O	3:AC:118:GLN:HG3	1.88	0.73
6:AF:4:TYR:CE1	6:AF:92:LYS:HG3	2.23	0.73
6:AF:79:LEU:O	6:AF:85:VAL:HG11	1.88	0.73
8:AH:119:LEU:HD22	8:AH:123:GLU:HB3	1.70	0.73
12:AL:20:LYS:HD3	12:AL:20:LYS:H	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:B5:6:VAL:HG23	35:BA:2015:A:C2	2.23	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
33:B8:62:LEU:HD22	35:BA:242:G:C5'	2.18	0.73
35:BA:21:A:O2'	35:BA:22:C:H5'	1.88	0.73
35:BA:534:U:O2'	52:BU:49:HIS:HD2	1.72	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:71:VAL:N	47:BP:72:PRO:HD3	2.04	0.73
47:BP:106:LEU:HD11	47:BP:112:LEU:HG	1.70	0.73
50:BS:42:ASP:O	50:BS:43:GLU:HB3	1.88	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:1275:A:N6	49:BR:16:HIS:HA	2.03	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
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:16:A:H2'	1:AA:17:U:H5'	1.71	0.73
1:AA:108:G:H5'	1:AA:109:A:C5'	2.18	0.73
1:AA:194:C:C2'	1:AA:195:A:H5''	2.17	0.73
1:AA:1323:G:H4'	1:AA:1363:C:C2	2.24	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:1820:U:C5	38:BD:202:LYS:HD3	2.23	0.73
35:BA:1840:G:H1	35:BA:1902:C:N4	1.85	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: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
1:AA:1191:A:C2	1:AA:1192:C:C4	2.76	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:145:G:C3'	35:BA:146:G:H5''	2.19	0.73
35:BA:957:A:N1	35:BA:2458:G:H4'	2.03	0.73
35:BA:1266:G:N2	35:BA:2012:G:H2'	2.03	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:H2'	35:BA:2108:C:O2	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
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:668:G:H4'	15:AO:48:LYS:HB2	1.70	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
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:847:U:OP2	35:BA:928:G:O6	2.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.89	0.73
37:BC:180:PHE:HD2	37:BC:184:LYS:HG3	1.53	0.73
38:BD:35:LYS:HG2	38:BD:63:ARG:CG	2.19	0.73
38:BD:247:ALA:HB1	38:BD:253:GLN:HA	1.71	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:HH11	56:BY:23:ARG:HG2	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: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
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
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:19:C:OP1	5:AE:127:ASN:HB3	1.89	0.72
1:AA:29:G:O2'	1:AA:30:U:H5'	1.89	0.72
1:AA:122:G:H2'	1:AA:123:C:C6	2.24	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:403:C:H4'	4:AD:122:ARG:NH2	2.05	0.72
1:AA:1152:A:H5'	10:AJ:70:ARG:NH2	2.04	0.72
1:AA:1318:A:N3	19:AS:37:ARG:NH2	2.37	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:HA	4:AD:59:ARG:NH1	2.03	0.72
8:AH:54:ASP:O	8:AH:56:LYS:HG3	1.89	0.72
8:AH:122:ARG:O	8:AH:125:ARG:HB3	1.89	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:412:A:H5'	1:AA:413:G:OP1	1.90	0.72
1:AA:1242:C:O2'	1:AA:1243:C:H5'	1.89	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:122:G:H2'	35:BA:123:G:C8	2.24	0.72
35:BA:1005:C:H2'	35:BA:1006:C:C6	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: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
1:AA:633:G:H5'	1:AA:634:C:OP2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:729:A:N6	15:AO:51:HIS:NE2	2.37	0.72
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.24	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
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:497:A:H2'	35:BA:498:G:H8	1.54	0.72
35:BA:918:A:C6	35:BA:919:G:H1'	2.24	0.72
35:BA:2523:G:O4'	35:BA:2765:A:C8	2.42	0.72
35:BA:2722:G:O2'	49:BR:5:LYS:HB3	1.88	0.72
37:BC:6:ARG:NH2	37:BC:10:LEU:HD23	2.04	0.72
37:BC:45:ALA:HB3	37:BC:171:ILE:HG22	1.71	0.72
37:BC:47:LEU:HD11	37:BC:171:ILE:CB	2.18	0.72
51:BT:89:VAL:HG12	51:BT:91:ARG:HG3	1.70	0.72
51:BT:100:TYR:O	51:BT:103:ARG:HG3	1.88	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:87:SER:OG	5:AE:131:ILE:HD13	1.90	0.72
5:AE:129:ILE:N	5:AE:129:ILE:CD1	2.50	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:N	31:B6:45:LYS:HD3	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:HD23	47:BP:123:LEU:N	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:H	24:AY:387:PHE:HD1	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: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
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
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: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
1:AA:1240:U:O2'	7:AG:32:ARG:NH1	2.22	0.72
1:AA:1377:A:P	7:AG:94:ARG:NH2	2.63	0.72
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.72	0.72
4:AD:96:LEU:HD23	4:AD:139:ARG:NH1	2.05	0.72
4:AD:102:ASP:CB	4:AD:121:VAL:HG21	2.19	0.72
11:AK:38:ASN:N	11:AK:38:ASN:ND2	2.34	0.72
14:AN:40:CYS:O	14:AN:42:ILE:N	2.23	0.72
15:AO:17:ARG:NH1	15:AO:17:ARG:HB3	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
36:BB:104:U:O2'	57:BZ:72:ARG:HG3	1.90	0.72
38:BD:117:VAL:HG21	38:BD:128:GLY:CA	2.20	0.72
40:BF:157:VAL:HG22	40:BF:193:VAL:O	1.90	0.72
40:BF:175:THR:C	40:BF:176:LEU:HD12	2.10	0.72
41:BG:39:ILE:HA	41:BG:156:ASP:O	1.90	0.72
41:BG:113:ARG:HA	41:BG:113:ARG:NE	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BU:114:LYS:HA	52:BU:117:GLN:HB2	1.71	0.72
57:BZ:33:LEU:HD11	57:BZ:35:ARG:HB2	1.71	0.72
57:BZ:57:ILE:HD12	57:BZ:57:ILE:N	2.05	0.72
57:BZ:63:ASP:O	57:BZ:65:GLN: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: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
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
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
33:B8:13:ARG:HD3	47:BP:61:ARG:HD3	1.69	0.72
35:BA:442:G:H4'	40:BF:46:ARG:HB2	1.71	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
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
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
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:145:LYS:O	5:AE:149:GLU:HG2	1.89	0.72
11:AK:52:GLY:H	11:AK:55:LYS:HE2	1.53	0.72
24:AY:74:VAL:HG11	24:AY:317:PHE:CE2	2.24	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
29:B4:24:THR:HG21	41:BG:104:GLU:OE2	1.90	0.72
35:BA:532:A:H2'	35:BA:532:A:N3	2.05	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
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:759:A:H1'	12:AL:12:ARG:HH22	1.54	0.71
1:AA:1091:U:C2	1:AA:1095:U:N3	2.57	0.71
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.72	0.71
2:AB:87:ARG:HH12	2:AB:219:VAL:HB	1.54	0.71
9:AI:79:LEU:HD13	9:AI:79:LEU:O	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:HH11	25:B0:11:ARG:CB	2.03	0.71
25:B0:20:ARG:HH22	35:BA:2271:G:H4'	1.55	0.71
26:B1:80:LEU:HB3	26:B1:82:LEU:CD2	2.20	0.71
35:BA:603:A:H1'	35:BA:604:G:OP2	1.89	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
35:BA:2278:A:OP1	48:BQ:11:LYS:HG3	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
48:BQ:133:ARG:HH11	48:BQ:133:ARG:CB	2.02	0.71
1:AA:390:C:H2'	1:AA:391:G:H8	1.54	0.71
1:AA:719:C:O2	18:AR:50:ILE:HG12	1.89	0.71
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.55	0.71
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.03	0.71
3:AC:139:GLN:NE2	3:AC:143:GLU:HB2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:64:GLU:CG	14:AN:59:ALA:HA	2.20	0.71
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
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:HA	32:B7:6:GLN:OE1	1.90	0.71
34:B9:19:ARG:NH1	35:BA:2755:C:C6	2.58	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
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:585:G:H4'	12:AL:8:ASN:ND2	2.05	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
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.53	0.71
32:B7:2:LYS:HB2	35:BA:1620:G:O2'	1.91	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
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
30:B5:7:PRO:HG2	35:BA:2016:U:O2	1.90	0.71
31:B6:13:CYS:SG	31:B6:22:ALA:HB3	2.30	0.71
35:BA:1494:A:H3'	35:BA:1494:A:N3	2.05	0.71
35:BA:2873:A:H1'	49:BR:6:SER:OG	1.90	0.71
38:BD:247:ALA:CB	38:BD:252:TRP:O	2.38	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
1:AA:1047:G:H5''	14:AN:4:LYS:CE	2.18	0.71
3:AC:83:ARG:HG3	3:AC:87:LEU:HD11	1.71	0.71
12:AL:41:ARG:HB2	12:AL:41:ARG:NH1	2.04	0.71
24:AY:21:HIS:HD2	24:AY:122:ARG:N	1.87	0.71
24:AY:78:PRO:HB3	24:AY:83:LEU:CB	2.20	0.71
24:AY:134:ASP:OD1	24:AY:249:GLY:HA2	1.89	0.71
28:B3:30:ARG:O	28:B3:33:GLN:HB2	1.89	0.71
35:BA:515:A:H2'	35:BA:516:C:H5'	1.72	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
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
1:AA:1202:G:C2	14:AN:42:ILE:CG2	2.73	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
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
26:B1:79:GLY:HA2	35:BA:271(H):G:N2	2.06	0.71
35:BA:897:C:H6	35:BA:897:C:H5''	1.55	0.71
35:BA:2243:U:O2'	35:BA:2244:U:H5'	1.89	0.71
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.21	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:H6	22:AV:48:C:OP1	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:568:U:H2'	35:BA:570:G:OP2	1.89	0.71
35:BA:1012:U:O4	45:BN:28:THR:HG21	1.90	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
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:2:ALA:C	38:BD:3:VAL:HG23	2.11	0.71
38:BD:142:VAL:O	38:BD:163:ALA:HB3	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: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:1145:C:O2'	1:AA:1146:A:H8	1.73	0.71
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	1.91	0.71
1:AA:1286:A:O2'	1:AA:1287:A:H5''	1.90	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:1819:A:H5''	38:BD:158:ALA:CB	2.19	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
40:BF:7:TYR:HD2	40:BF:16:GLY:CA	2.04	0.71
41:BG:86:MET:HG2	41:BG:86:MET:O	1.89	0.71
42:BH:94:TYR:HD1	42:BH:108:GLY:N	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:122:THR:CG2	42:BH:123:PHE:H	1.99	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:HD12	48:BQ:131:ILE:N	2.06	0.71
1:AA:92:C:H2'	1:AA:93:G:C8	2.26	0.71
1:AA:642:A:N3	8:AH:113:SER:OG	2.22	0.71
1:AA:720:C:C1'	18:AR:50:ILE:HG21	2.21	0.71
1:AA:853:G:O2'	1:AA:854:G:H5'	1.89	0.71
1:AA:1346:A:H5'	9:AI:120:ARG:NH1	2.04	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:62:ALA:O	5:AE:64:ARG:N	2.24	0.71
5:AE:110:LEU:O	5:AE:113:ALA:HB3	1.91	0.71
7:AG:22:LEU:O	7:AG:22:LEU:HD23	1.90	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
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: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
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
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:5:LEU:O	57:BZ:59:LEU:HA	1.91	0.71
57:BZ:42:VAL:HG13	57:BZ:43:GLU:H	1.56	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
35:BA:2718:G:H5'	51:BT:100:TYR:HE2	1.53	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
51:BT:96:ARG:HB2	51:BT:96:ARG:NH1	2.05	0.71
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
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:1394:A:N7	1:AA:1501:C:H4'	2.06	0.70
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.54	0.70
3:AC:95:THR:O	3:AC:97:LYS:N	2.23	0.70
3:AC:131:ARG:HH11	3:AC:166:GLU:HG3	1.56	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:30:THR:CG2	24:AY:86:LEU:HD21	2.21	0.70
24:AY:74:VAL:HG21	24:AY:87:LEU:CD2	2.21	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:349:MET:CE	24:AY:358:GLU:HG2	2.21	0.70
27:B2:12:GLU:O	27:B2:16:LEU:HG	1.91	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:C1'	2.53	0.70
35:BA:950:G:H2'	35:BA:951:C:C6	2.26	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
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:48:TYR:CE1	3:AC:118:GLN:NE2	2.57	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
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:94:ASP:O	24:AY:97:GLU:HG3	1.90	0.70
24:AY:174:GLY:O	24:AY:179:PHE:HA	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: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
35:BA:2641:G:H8	35:BA:2641:G:H5'	1.55	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:7:ARG:HB3	47:BP:8:PRO:HD3	1.72	0.70
47:BP:88:LEU:HD21	47:BP:125:VAL:CG2	2.21	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:778:G:H2'	1:AA:779:C:O4'	1.90	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
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: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
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:C8	35:BA:2439:A:C5'	2.74	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:568:G:O2'	1:AA:569:C:H5'	1.91	0.70
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.26	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: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
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:1639:U:C4'	35:BA:2699:C:H4'	2.20	0.70
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.26	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: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
1:AA:1034:G:O2'	1:AA:1035:A:H5'	1.92	0.70
10:AJ:16:LEU:C	10:AJ:16:LEU:HD13	2.12	0.70
19:AS:43:GLU:C	19:AS:45:VAL:H	1.94	0.70
24:AY:30:THR:O	24:AY:33:VAL:HB	1.90	0.70
24:AY:221:GLU:CA	24:AY:225:GLN:HE22	2.03	0.70
26:B1:78:LYS:O	26:B1:80:LEU:N	2.25	0.70
35:BA:272(J):C:C3'	35:BA:274:G:H5''	2.22	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:2415:G:O3'	47:BP:66:GLY:HA3	1.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.74	0.70
49:BR:62:ALA:HA	49:BR:65:LEU:HB2	1.71	0.70
1:AA:613:C:H2'	1:AA:614:A:C8	2.27	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
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:496:G:O4'	54:BW:61:ASN:ND2	2.24	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:1799:G:O6	38:BD:179:SER:HB3	1.92	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
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
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:NH1	3:AC:88:ARG:HG3	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:253:C:H2'	35:BA:254:G:H8	1.56	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

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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:1498:C:C2'	35:BA:1499:C:C5'	2.70	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:2781:A:C5'	35:BA:2782:G:H5'	2.21	0.70
37:BC:49:ILE:HG22	37:BC:204:ALA:HB1	1.73	0.70
37:BC:119:VAL:O	37:BC:123:VAL:HB	1.91	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: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
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.73	0.70
1:AA:1124:G:H2'	1:AA:1145:C:N4	2.06	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:79:GLU:O	8:AH:104:ARG:CZ	2.39	0.70
5:AE:128:PRO:HB2	5:AE:129:ILE:HD12	1.74	0.70
7:AG:15:ASP:HB3	7:AG:19:GLY:CA	2.22	0.70
10:AJ:50:ILE:H	10:AJ:50:ILE:CD1	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: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
24:AY:342:ILE:O	24:AY:342:ILE:CG1	2.40	0.70
31:B6:8:LYS:HD2	31:B6:27:LYS:HD3	1.73	0.70
35:BA:264:C:H4'	35:BA:428:A:C2	2.26	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:1999:C:H4'	35:BA:2723:C:O2	1.92	0.70
35:BA:2127:G:H2'	35:BA:2128:C:C6	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2848:G:O6	51:BT:54:ARG:NH2	2.25	0.70
35:BA:2864:G:H2'	35:BA:2865:U:C6	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: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
1:AA:1452:C:H5''	1:AA:1456:G:OP1	1.92	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:7:LEU:HD22	24:AY:292:SER:HB3	1.74	0.70
24:AY:168:PRO:CG	24:AY:171:TRP:HZ2	2.02	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:C	28:B3:46:ASN:HD22	1.91	0.70
32:B7:37:LYS:HG2	32:B7:37:LYS:O	1.92	0.70
35:BA:1667:G:OP1	46:BO:6:THR:HA	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:48:GLN:HE22	39:BE:64:LYS:HZ1	1.38	0.70
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.92	0.70
45:BN:21:LYS:HD3	45:BN:22:THR:N	2.06	0.70
1:AA:436:C:H5''	4:AD:156:GLU:OE1	1.92	0.69
1:AA:1265:G:H2'	1:AA:1266:G:C8	2.27	0.69
2:AB:43:ASP:OD2	2:AB:46:LYS:HE3	1.91	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
4:AD:59:ARG:HH11	4:AD:59:ARG:HG2	1.55	0.69
4:AD:159:ARG:NH1	4:AD:159:ARG:HG3	2.07	0.69
24:AY:4:SER:HB3	24:AY:7:LEU:HD12	1.73	0.69
24:AY:109:CYS:C	24:AY:137:ILE:HG23	2.13	0.69
24:AY:207:VAL:HG12	24:AY:207:VAL:O	1.92	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:O	24:AY:421:GLU:HG2	1.91	0.69
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.28	0.69
35:BA:770:G:N3	35:BA:1354:A:H2	1.89	0.69
35:BA:976:C:H5'	35:BA:1156:A:N6	2.07	0.69
35:BA:976:C:N4	35:BA:987:G:H1	1.88	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
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
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:66:PRO:HB2	40:BF:70:THR:CG2	2.22	0.69
40:BF:181:LEU:HD12	40:BF:182:ASN:H	1.56	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:B3:21:ALA:O	35:BA:849:A:C2	2.45	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:206:U:O2'	35:BA:207:A:H5'	1.92	0.69
35:BA:869:G:O2'	35:BA:870:A:H5'	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1186:G:H2'	35:BA:1187:G:O4'	1.93	0.69
35:BA:2107:C:H2'	35:BA:2108:C:C6	2.25	0.69
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
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:HB2	50:BS:15:ARG:HH11	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:78:PRO:CB	24:AY:83:LEU:HD22	2.22	0.69
24:AY:225:GLN:CA	24:AY:228:ARG:HB2	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:HH11	39:BE:199:ARG:CB	2.05	0.69
42:BH:69:ARG:O	42:BH:73:ALA:CB	2.40	0.69
42:BH:107:VAL:O	42:BH:107:VAL:HG23	1.92	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:324:A:O2'	35:BA:325:G:H5'	1.92	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
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: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
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
10:AJ:55:LYS:HE3	10:AJ:55:LYS:H	1.56	0.69
19:AS:23:ASN:HA	29:B4:47:GLN:CB	2.22	0.69
24:AY:62:MET:HG2	24:AY:451:ALA:CB	2.21	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:729:G:C6	38:BD:208:LYS:HB2	2.27	0.69
35:BA:774:A:C2	35:BA:787:U:O2'	2.45	0.69
35:BA:1571:A:H2'	35:BA:1572:A:C8	2.27	0.69
35:BA:1782:C:H1'	35:BA:2609:U:H5''	1.74	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:2777:G:H5''	35:BA:2778:A:C5'	2.23	0.69
37:BC:128:GLY:CA	37:BC:137:LEU:HD23	2.22	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: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
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
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:15:G:O2'	35:BA:16:G:H5'	1.92	0.69
35:BA:143(A):C:H2'	35:BA:144:C:C6	2.27	0.69
35:BA:1406:U:OP2	35:BA:1406:U:H6	1.75	0.69
35:BA:1614:A:N1	54:BW:87:PRO:HB3	2.08	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:773:G:H5''	38:BD:203:ASN:ND2	2.07	0.69
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.56	0.69
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.28	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
2:AB:103:THR:HG23	2:AB:176:GLU:OE1	1.92	0.69
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.72	0.69
4:AD:98:GLU:HA	4:AD:103:ASN:ND2	2.08	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
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
10:AJ:16:LEU:HD11	10:AJ:70:ARG:CG	2.22	0.69
12:AL:53:ARG:HH11	12:AL:53:ARG:HG2	1.58	0.69
12:AL:76:ASN:O	12:AL:77:LEU:HD23	1.93	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
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:271(F):C:O2'	35:BA:271(G):C:H5'	1.92	0.69
35:BA:296:C:O2'	35:BA:297:C:H5'	1.92	0.69
35:BA:464:U:H2'	35:BA:465:G:O4'	1.92	0.69
35:BA:637:A:OP2	47:BP:115:LEU:HB2	1.92	0.69
35:BA:999:U:H5	35:BA:1154:G:C4	2.10	0.69
35:BA:1047:G:H2'	35:BA:1110:G:H21	1.58	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:1789:A:H5''	38:BD:221:VAL:HG12	1.75	0.69
37:BC:32:LEU:HD11	37:BC:222:VAL:HG22	1.75	0.69
37:BC:189:ILE:HD13	37:BC:214:VAL:HG21	1.74	0.69
37:BC:214:VAL:CG2	37:BC:224:ILE:HD13	2.22	0.69
38:BD:226:MET:HE2	38:BD:230:ASP:HB3	1.75	0.69
39:BE:101:ARG:NH1	39:BE:171:GLU:HG3	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
52:BU:28:ARG:NH1	52:BU:38:THR:HG23	2.00	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
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.74	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
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
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:443:A:H2	35:BA:1245:G:N3	1.91	0.69
35:BA:1102:C:H2'	35:BA:1103:A:C8	2.27	0.69
35:BA:2535:G:H2'	35:BA:2536:G:C8	2.27	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:285:G:H2'	1:AA:286:G:H8	1.58	0.69
1:AA:1118:C:N4	1:AA:1155:G:H1	1.90	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:225:A:O2'	35:BA:257:A:H4'	1.92	0.69
35:BA:472:A:H5'	35:BA:472:A:H8	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
35:BA:1956:U:H2'	35:BA:1957:C:H5'	1.75	0.69
35:BA:2443:C:C2'	35:BA:2444:G:H5'	2.22	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:13:LYS:HD3	52:BU:13:LYS:H	1.58	0.69
52:BU:106:PHE:O	52:BU:110:VAL:HG23	1.93	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:76:C:H2'	35:BA:77:C:C6	2.28	0.68
35:BA:199:A:C2	35:BA:2433:A:N3	2.61	0.68
35:BA:246:C:OP1	47:BP:71:VAL:HB	1.92	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
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
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:81:PRO:HG2	40:BF:82:ILE:H	1.58	0.68
40:BF:126:VAL:HG23	40:BF:127:GLU:H	1.56	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
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:30:THR:HG23	24:AY:86:LEU:CD2	2.22	0.68
24:AY:342:ILE:O	24:AY:342:ILE:HG13	1.93	0.68
35:BA:117:G:H5'	35:BA:126:A:N3	2.08	0.68
35:BA:373:U:H2'	35:BA:374:A:C8	2.26	0.68
35:BA:999:U:C5	35:BA:1154:G:C5	2.81	0.68
35:BA:1340:U:OP2	55:BX:78:LYS:NZ	2.25	0.68
35:BA:2287:A:H61	35:BA:2344:U:H3	1.38	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: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
51:BT:131:ALA:C	51:BT:133:GLU:H	1.94	0.68
53:BV:88:ARG:O	53:BV:90:PRO:HD3	1.93	0.68
1:AA:918:A:C6	1:AA:919:A:C6	2.82	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
2:AB:44:LEU:HA	2:AB:47:THR:OG1	1.93	0.68
2:AB:115:LEU:HD13	2:AB:145:LEU:CD1	2.22	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
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
33:B8:30:ARG:NH2	35:BA:2419:U:O4	2.26	0.68
35:BA:875:G:H4'	57:BZ:170:THR:OG1	1.93	0.68
35:BA:954:G:H5''	48:BQ:13:GLN:HB3	1.74	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
35:BA:2638:G:OP2	39:BE:82:ARG:NH2	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BX:14:SER:OG	55:BX:17:ALA:HB2	1.92	0.68
1:AA:106:C:O2'	1:AA:379:C:H5''	1.93	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
1:AA:754:C:C4'	15:AO:72:ARG:HH12	2.06	0.68
1:AA:939:G:P	7:AG:95:ARG:HH22	2.15	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
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:HG3	2:AB:178:ARG:NH1	2.09	0.68
2:AB:224:GLN:O	2:AB:227:GLY:N	2.27	0.68
9:AI:121:ARG:HG2	9:AI:121:ARG:NH1	2.09	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:B0:33:ALA:O	35:BA:2352:A:H2	1.76	0.68
25:B0:51:VAL:CG2	25:B0:80:HIS:HA	2.22	0.68
35:BA:690:G:H21	38:BD:43:ARG:HH22	1.40	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
35:BA:2861:G:O2'	35:BA:2862:G:H5'	1.93	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:HD13	53:BV:99:ILE:N	2.08	0.68
54:BW:5:ALA:HB2	54:BW:54:ALA:HB2	1.74	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
1:AA:760:G:N2	17:AQ:94:ASN:HB3	2.07	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
8:AH:2:LEU:HD21	8:AH:8:ASP:CB	2.23	0.68
8:AH:85:ARG:HH11	8:AH:85:ARG:HG3	1.59	0.68
9:AI:98:PRO:HB2	9:AI:99:LEU:HD22	1.74	0.68
20:AT:75:ASN:O	20:AT:79:ARG:HB2	1.94	0.68
22:AV:3:C:O2	35:BA:1851:U:H5''	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1494:A:N3	35:BA:1494:A:H5'	2.08	0.68
35:BA:1567:A:H5'	38:BD:58:HIS:HD2	1.58	0.68
35:BA:1628:G:H2'	35:BA:1629:U:H6	1.58	0.68
35:BA:2110:G:H1	35:BA:2178:C:H41	1.40	0.68
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
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:B8:4:MET:O	33:B8:62:LEU:HD11	1.93	0.68
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.24	0.68
35:BA:104:U:H2'	35:BA:105:C:H5'	1.76	0.68
35:BA:483:A:O3'	56:BY:49:VAL:HG22	1.94	0.68
35:BA:893:C:H2'	35:BA:894:C:H5'	1.73	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
36:BB:41:U:N3	41:BG:70:VAL:HB	2.07	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
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
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: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
35:BA:1654:A:P	49:BR:3:HIS:HB2	2.33	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:O5'	35:BA:2504:U:H6	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
38:BD:24:ILE:HD13	38:BD:84:TYR:N	2.08	0.68
38:BD:79:VAL:HG23	38:BD:114:GLY:H	1.58	0.68
38:BD:92:ILE:HA	38:BD:107:ALA:N	2.08	0.68
40:BF:19:GLU:O	40:BF:20:LEU:HD23	1.92	0.68
40:BF:154:VAL:HG12	40:BF:155:LEU:N	2.08	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
53:BV:40:LEU:CD2	53:BV:47:VAL:HG22	2.22	0.68
1:AA:619:U:C2	4:AD:135:LEU:HD11	2.28	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
2:AB:130:ARG:HA	2:AB:130:ARG:HE	1.57	0.68
2:AB:193:ASP:OD1	2:AB:193:ASP:C	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
22:AV:76:A:P	35:BA:2432:A:H4'	2.34	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: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
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
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:7:TYR:OH	40:BF:10:PRO:HB3	1.93	0.68
40:BF:65:TRP:CH2	40:BF:72:ARG:HB3	2.29	0.68
47:BP:38:GLN:OE1	47:BP:41:ARG:HD3	1.94	0.68
47:BP:97:PRO:HA	47:BP:100:LEU:HD23	1.76	0.68
48:BQ:67:ARG:HH11	48:BQ:67:ARG:CB	2.06	0.68
48:BQ:140:ALA:HB1	57:BZ:99:TYR:CD2	2.28	0.68
49:BR:44:LEU:HD13	49:BR:44:LEU:O	1.94	0.68
50:BS:49:VAL:HG12	50:BS:50:SER:H	1.57	0.68
1:AA:910:C:O2'	1:AA:911:U:H5'	1.94	0.68
1:AA:978:A:N6	1:AA:1318:A:N7	2.42	0.68
1:AA:1220:G:H21	19:AS:54:GLY:CA	2.06	0.68
1:AA:1228:C:OP1	13:AM:108:ARG:NH2	2.27	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
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:64:A:O3'	55:BX:71:GLY:HA3	1.94	0.68
35:BA:977:G:H2'	35:BA:978:G:H8	1.59	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
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

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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:N3	1:AA:977:A:C2'	2.57	0.68
16:AP:71:ARG:HA	16:AP:74:LEU:HD12	1.75	0.68
24:AY:78:PRO:HA	24:AY:83:LEU:HA	1.76	0.68
24:AY:399:ARG:HA	24:AY:466:VAL:CG2	2.24	0.68
24:AY:445:GLN:HA	24:AY:448:VAL:HG23	1.76	0.68
27:B2:41:ILE:HG13	27:B2:42:GLY:H	1.59	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
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
36:BB:82:G:H2'	36:BB:83:G:H8	1.58	0.68
36:BB:111:G:O2'	36:BB:112:U:H5'	1.93	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:HD12	52:BU:17:ILE:N	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:59:A:H1'	1:AA:354:G:N2	2.09	0.67
1:AA:398:C:H6	1:AA:398:C:H3'	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
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
2:AB:200:ILE:H	2:AB:200:ILE:HD12	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:HG12	29:B4:5:ILE:O	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:43:ARG:HB3	38:BD:54:ARG:O	1.94	0.67
38:BD:108:PRO:HB3	38:BD:143:HIS:NE2	2.07	0.67
39:BE:171:GLU:O	39:BE:173:VAL:N	2.23	0.67
40:BF:18:ARG:CZ	40:BF:199:TRP:HZ3	2.07	0.67
40:BF:23:ASP:O	40:BF:115:ALA:HB2	1.94	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:HH11	49:BR:17:ARG:CB	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: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
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
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:239:U:H1'	35:BA:259:G:N2	2.08	0.67
35:BA:361:G:H2'	35:BA:362:U:H4'	1.76	0.67
35:BA:1030:G:OP2	48:BQ:128:LYS:HE2	1.93	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:2746:U:H2'	35:BA:2747:G:C5'	2.20	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:HA	42:BH:40:GLU:OE1	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
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:778:G:H2'	1:AA:779:C:C6	2.29	0.67
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.76	0.67
1:AA:1506:U:O2'	1:AA:1507:A:H5'	1.93	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:HD12	11:AK:108:ILE:N	2.09	0.67
19:AS:20:LEU:HA	19:AS:23:ASN:CB	2.24	0.67
31:B6:15:GLU:OE2	31:B6:41:PRO:HB3	1.93	0.67
35:BA:233:A:H2'	35:BA:234:C:C6	2.29	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
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:2692:C:H1'	35:BA:2847:U:O2'	1.95	0.67
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.04	0.67
41:BG:51:ARG:HA	41:BG:51:ARG:NE	2.08	0.67
41:BG:130:ASN:HB3	41:BG:160:VAL:HA	1.76	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:17:U:H2'	1:AA:18:C:C6	2.28	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:1350:A:OP2	9:AI:121:ARG:HG3	1.94	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
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: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:86:LEU:CD1	24:AY:88:ASP:H	2.07	0.67
24:AY:108:CYS:HA	24:AY:135:THR:CG2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:299:PHE:H	24:AY:299:PHE:HD2	1.42	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: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
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
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:7:VAL:HG13	2:AB:11:LEU:HD12	1.76	0.67
2:AB:219:VAL:O	2:AB:223:ILE:HG13	1.94	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:872:A:H5'	48:BQ:69:PHE:CE2	2.26	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
51:BT:51:ARG:HD3	51:BT:62:THR:HG21	1.76	0.67
1:AA:376:G:H5''	16:AP:5:ARG:HB2	1.74	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
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:18:LYS:HG3	4:AD:33:MET:HB3	1.76	0.67
4:AD:173:TRP:HA	4:AD:187:ARG:HH12	1.58	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
24:AY:260:LEU:HD21	35:BA:2655:G:H5''	1.77	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:193:U:C2'	35:BA:194:G:H5'	2.24	0.67
35:BA:289:A:H61	35:BA:351:G:H1'	1.59	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:2307:G:H3'	35:BA:2307:G:N3	2.09	0.67
35:BA:2758:A:H62	42:BH:67:LEU:HD11	1.55	0.67
36:BB:10:C:O2'	36:BB:11:C:H5'	1.94	0.67
39:BE:60:ASN:OD1	39:BE:61:ARG:N	2.26	0.67
39:BE:112:GLY:O	39:BE:114:ALA:N	2.27	0.67
45:BN:66:LYS:HB3	45:BN:70:LYS:HB2	1.75	0.67
46:BO:24:VAL:O	46:BO:24:VAL:HG23	1.94	0.67
51:BT:107:ASP:CG	51:BT:108:ARG:H	1.97	0.67
1:AA:687:A:O2'	1:AA:688:G:OP2	2.10	0.67
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.95	0.67
19:AS:23:ASN:OD1	29:B4:47:GLN:HG3	1.95	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
35:BA:668:G:H2'	35:BA:670:A:H62	1.60	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
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:49:VAL:HG21	14:AN:41:ARG:HB2	1.77	0.67
10:AJ:65:LEU:O	10:AJ:65:LEU:HG	1.95	0.67
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.94	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:2312:U:OP1	41:BG:73:ALA:HA	1.95	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:O	39:BE:87:GLU:HG3	1.95	0.67
41:BG:11:TYR:HD1	41:BG:15:VAL:HB	1.59	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
26:B1:35:THR:HG21	35:BA:2080:G:OP1	1.95	0.67
30:B5:3:LYS:HD3	35:BA:747:U:OP2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:266:G:H2'	35:BA:267:C:H5''	1.77	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
35:BA:1826:G:H4'	38:BD:242:ARG:CZ	2.25	0.67
35:BA:2745:C:O2'	42:BH:142:GLY:HA3	1.94	0.67
37:BC:77:ILE:O	37:BC:78:ALA:O	2.13	0.67
37:BC:175:VAL:HG21	37:BC:189:ILE:CG1	2.15	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:65:ARG:HB3	47:BP:68:GLN:HE22	1.58	0.67
47:BP:100:LEU:CB	47:BP:106:LEU:HD22	2.24	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: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
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
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:884:C:O5'	35:BA:884:C:H6	1.78	0.67
35:BA:1135:C:C2	35:BA:1137:G:OP2	2.48	0.67
35:BA:2053:G:H4'	39:BE:145:LYS:HA	1.77	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
37:BC:100:ILE:HG22	37:BC:100:ILE:O	1.94	0.67
38:BD:111:LEU:CD1	38:BD:115:GLN:NE2	2.58	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:539:A:OP2	12:AL:115:LYS:HE3	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:O2	14:AN:19:ARG:NE	2.27	0.66
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.13	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: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:748:G:H5''	35:BA:2612:C:N4	2.10	0.66
35:BA:864:G:N7	48:BQ:22:LYS:NZ	2.42	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: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
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:N	40:BF:125:LEU:HD23	2.09	0.66
47:BP:85:LEU:HA	47:BP:88:LEU:CB	2.25	0.66
50:BS:24:LEU:CB	50:BS:85:VAL:HG12	2.26	0.66
50:BS:51:ALA:CB	50:BS:73:LEU:HB2	2.25	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:974:A:N7	14:AN:31:ARG:NH1	2.43	0.66
1:AA:1204:A:H2'	1:AA:1205:U:O4'	1.94	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:565:C:OP2	53:BV:78:LYS:N	2.27	0.66
35:BA:909:A:O2'	35:BA:911:A:OP2	2.12	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
39:BE:23:VAL:HG12	39:BE:184:VAL:O	1.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:122:LYS:HB3	40:BF:191:ARG:HG3	1.77	0.66
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
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:28:G:N2	1:AA:556:C:C2	2.63	0.66
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.30	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: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
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
37:BC:47:LEU:HD11	37:BC:171:ILE:CG1	2.25	0.66
37:BC:100:ILE:HA	37:BC:127:MET:HE1	1.78	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
38:BD:126:GLN:C	38:BD:193:VAL:HG21	2.16	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:427:U:OP1	4:AD:41:GLY:N	2.29	0.66
1:AA:506:G:H2'	1:AA:507:C:C6	2.30	0.66
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.31	0.66
2:AB:102:LEU:HD12	2:AB:102:LEU:N	2.11	0.66
4:AD:187:ARG:HB3	4:AD:187:ARG:HH11	1.59	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: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:H2'	35:BA:696:G:N3	2.11	0.66
35:BA:762:U:H5'	35:BA:763:G:C2	2.29	0.66
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.55	0.66
35:BA:2378:A:C2	50:BS:19:LYS:HE3	2.30	0.66
35:BA:2870:C:OP1	49:BR:61:HIS:HE1	1.78	0.66
37:BC:103:ILE:HB	37:BC:127:MET:SD	2.35	0.66
38:BD:9:TYR:OH	38:BD:13:ARG:CD	2.43	0.66
38:BD:9:TYR:CD1	38:BD:10:THR:N	2.54	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
51:BT:85:LYS:HB3	51:BT:85:LYS:HZ3	1.60	0.66
52:BU:27:LEU:HA	52:BU:30:LYS:HB2	1.77	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
1:AA:1203:C:O2'	1:AA:1204:A:H5'	1.96	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:654(L):G:H2'	35:BA:654(M):C:H4'	1.77	0.66
35:BA:781:A:C2	35:BA:1777:U:O4'	2.47	0.66
35:BA:910:A:N6	48:BQ:12:GLN:HA	2.04	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
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
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:72:ARG:HH22	57:BZ:97:GLU:HB3	1.60	0.66
57:BZ:123:ASP:C	57:BZ:124:ILE:HG12	2.16	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
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.60	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
32:B7:3:ARG:NH2	35:BA:752:A:OP1	2.27	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:2075:U:H5'	35:BA:2597:G:H1'	1.76	0.66
35:BA:2206:G:H3'	35:BA:2206:G:N3	2.11	0.66
35:BA:2284:C:H2'	35:BA:2285:C:H6	1.59	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
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
1:AA:1348:U:H5'	9:AI:110:GLU:OE1	1.96	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
19:AS:47:HIS:N	19:AS:62:ILE:HG21	2.10	0.66
24:AY:101:ARG:NH1	24:AY:301:PHE:O	2.28	0.66
24:AY:255:PHE:CE2	24:AY:268:MET:HA	2.31	0.66
32:B7:10:ARG:HH21	35:BA:1378:A:H5''	1.60	0.66
35:BA:94(A):G:C3'	35:BA:95:G:H5''	2.26	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

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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:HD1	48:BQ:58:PHE:O	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:29:ALA:O	2:AB:32:ILE:HG22	1.96	0.66
2:AB:87:ARG:NH1	2:AB:223:ILE:HD11	2.08	0.66
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.25	0.66
8:AH:5:PRO:O	8:AH:8:ASP:N	2.29	0.66
8:AH:44:PHE:CE2	8:AH:109:ILE:HG21	2.30	0.66
12:AL:41:ARG:HB3	12:AL:41:ARG:NH1	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:B1:3:LYS:HD2	35:BA:1364:G:C8	2.31	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
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:OP2	35:BA:845:G:C8	2.48	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
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
48:BQ:141:GLN:HE22	57:BZ:72:ARG:HD3	1.59	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:60:GLU:HA	57:BZ:65:GLN:O	1.95	0.66
57:BZ:119:GLU:HG3	57:BZ:122:ARG:CZ	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:141:VAL:CA	57:BZ:144:LEU:HD23	2.24	0.66
1:AA:9:G:H5'	5:AE:122:GLU:OE1	1.96	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
1:AA:1377:A:OP2	7:AG:94:ARG:CZ	2.44	0.66
1:AA:1377:A:OP2	7:AG:94:ARG:NH2	2.28	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:24:ARG:HH11	5:AE:24:ARG:HG2	1.59	0.66
5:AE:106:PRO:O	5:AE:110:LEU:HG	1.96	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:HH11	28:B3:35:ARG:HG3	1.59	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
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
36:BB:57:A:N7	41:BG:29:TRP:HD1	1.94	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
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:9:VAL:C	52:BU:13:LYS:HE2	2.16	0.66
52:BU:97:ASP:O	52:BU:100:VAL:HB	1.96	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
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.79	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

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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: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
35:BA:1007:C:OP1	45:BN:35:ARG:NH1	2.29	0.66
35:BA:1131:G:N7	35:BA:2025:C:H1'	2.10	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: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
36:BB:98:G:C5	36:BB:99:G:N7	2.64	0.66
37:BC:30:LYS:HA	37:BC:30:LYS:NZ	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: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
1:AA:1515:C:O2'	1:AA:1516:G:H5'	1.96	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:132:G:H2'	35:BA:133:C:O4'	1.95	0.65
35:BA:677:A:H2'	35:BA:678:C:C6	2.31	0.65
35:BA:1277:G:O2'	49:BR:24:GLN:HG2	1.97	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
36:BB:23:G:C2	36:BB:61:G:C2	2.84	0.65
36:BB:98:G:C4	36:BB:99:G:C8	2.84	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:101:G:H2'	36:BB:102:A:C8	2.31	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:NH1	49:BR:17:ARG:CB	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:53:A:C2	1:AA:359:U:O2	2.49	0.65
1:AA:230:G:OP1	16:AP:33:ILE:CD1	2.44	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:59:GLU:HB2	2:AB:221:LEU:HD11	1.78	0.65
2:AB:171:ALA:O	2:AB:174:VAL:HB	1.96	0.65
3:AC:55:VAL:HG22	3:AC:68:VAL:HG13	1.77	0.65
3:AC:137:ALA:HA	3:AC:140:ARG:NH1	2.11	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:65:ILE:HD11	38:BD:88:ARG:HD3	1.77	0.65
38:BD:181:GLU:CG	38:BD:272:ALA:HB1	2.26	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:60:A:H4'	1:AA:61:G:O5'	1.96	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:973:G:H1'	10:AJ:55:LYS:NZ	2.12	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
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: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
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
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:82:ILE:CG1	40:BF:83:PHE:N	2.58	0.65
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.77	0.65
48:BQ:140:ALA:HB1	57:BZ:99:TYR:HD2	1.61	0.65
51:BT:16:ARG:HH12	51:BT:19:LEU:HG	1.61	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
1:AA:1316:G:O3'	14:AN:18:VAL:HG22	1.95	0.65
3:AC:123:GLN:HB3	3:AC:128:PHE:CD2	2.28	0.65
4:AD:96:LEU:HD12	4:AD:96:LEU:N	2.11	0.65
6:AF:47:ARG:CZ	6:AF:47:ARG:CB	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: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:1824:G:OP1	38:BD:52:ARG:CD	2.43	0.65
35:BA:1910:G:H1	35:BA:1920:C:N4	1.94	0.65
35:BA:2223:G:H5''	38:BD:269:PHE:CZ	2.32	0.65
39:BE:9:VAL:HG11	39:BE:25:VAL:HB	1.77	0.65
39:BE:24:THR:HB	39:BE:184:VAL:HG23	1.79	0.65
39:BE:105:THR:HG22	39:BE:106:GLY:N	2.11	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:HH11	47:BP:50:ARG:HG2	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:HG2	57:BZ:122:ARG:NH1	2.05	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
1:AA:1527:C:O2'	1:AA:1528:U:H5'	1.96	0.65
2:AB:97:TRP:HZ3	2:AB:172:ILE:CG2	2.09	0.65
2:AB:106:LYS:HD3	2:AB:106:LYS:H	1.61	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:HG3	4:AD:159:ARG:HH11	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:616:G:H5'	40:BF:103:LYS:NZ	2.10	0.65
35:BA:1372:U:O2'	35:BA:1373:A:H5'	1.96	0.65
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.59	0.65
35:BA:1999:C:H2'	35:BA:2000:G:C8	2.31	0.65
36:BB:105:A:H4'	57:BZ:89:PHE:CE1	2.31	0.65
38:BD:181:GLU:C	38:BD:272:ALA:HB1	2.17	0.65
39:BE:51:PHE:O	39:BE:53:PRO:N	2.30	0.65
39:BE:179:GLU:O	39:BE:179:GLU:HG3	1.97	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:67:LYS:HZ2	41:BG:67:LYS:H	1.42	0.65
41:BG:117:PHE:O	41:BG:118:ARG:HG3	1.97	0.65
45:BN:12:ARG:HB3	45:BN:50:ASP:OD2	1.97	0.65
46:BO:17:ARG:HH21	46:BO:99:PHE:HE2	1.44	0.65
46:BO:26:LYS:HB2	46:BO:30:ALA:HB3	1.79	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
57:BZ:99:TYR:HA	57:BZ:124:ILE:O	1.96	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
1:AA:781:A:H4'	1:AA:1522:U:O2'	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:817:C:C5	1:AA:819:A:H1'	2.32	0.65
1:AA:1009:G:H2'	1:AA:1010:G:C8	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:89:THR:HB	24:AY:99:THR:CG2	2.26	0.65
24:AY:412:LEU:CD2	24:AY:436:LEU:HD12	2.26	0.65
31:B6:42:TRP:O	31:B6:44:ARG:N	2.29	0.65
35:BA:61:G:H1	35:BA:94:C:H42	1.45	0.65
35:BA:81:G:H21	56:BY:2:ARG:NH1	1.92	0.65
35:BA:324:A:OP2	35:BA:1205:U:N3	2.30	0.65
35:BA:396:G:H8	35:BA:396:G:O5'	1.80	0.65
35:BA:811:U:H6	47:BP:24:GLY:O	1.77	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
38:BD:78:LYS:O	38:BD:95:LEU:HA	1.97	0.65
38:BD:111:LEU:HD12	38:BD:112:GLN:N	2.10	0.65
41:BG:115:ARG:HH22	41:BG:136:ARG:CB	2.09	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
1:AA:1152:A:OP1	10:AJ:70:ARG:NH2	2.30	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
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:745:G:H2'	35:BA:746:A:H5'	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1013:C:H2'	35:BA:1014:U:H5'	1.78	0.65
35:BA:1376:C:C2'	35:BA:1377:G:H5'	2.27	0.65
35:BA:1914:C:O2	35:BA:1914:C:C5'	2.45	0.65
35:BA:2319:G:H1'	35:BA:2320:A:C8	2.32	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: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
1:AA:1423:G:H5''	46:BO:49:ARG:HH12	1.62	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:16:PHE:HE2	24:AY:84:VAL:CG1	2.09	0.65
24:AY:517:ARG:HH11	24:AY:517:ARG:HG2	1.62	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
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:2073:C:O3'	38:BD:228:PRO:HB2	1.96	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
37:BC:39:GLU:O	37:BC:178:ALA:N	2.30	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:28:G:N2	1:AA:556:C:N3	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:658:G:O2'	1:AA:659:U:H5'	1.96	0.65
1:AA:1299:A:H5''	1:AA:1299:A:N3	2.12	0.65
1:AA:1318:A:C1'	19:AS:37:ARG:NH2	2.57	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
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:746:A:H2'	35:BA:2612:C:H5''	1.78	0.65
35:BA:957:A:H2	35:BA:2459:A:OP1	1.80	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:2578:G:C5	39:BE:140:SER:HB2	2.32	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:4:LYS:O	38:BD:17:THR:HG23	1.97	0.65
38:BD:33:LEU:CD2	38:BD:34:VAL:HG22	2.27	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:94:TYR:CD1	42:BH:108:GLY:N	2.65	0.65
42:BH:103:LEU:HD22	42:BH:125:VAL:HG22	1.78	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:51:ALA:HA	57:BZ:55:HIS:CD2	2.19	0.65
57:BZ:166:SER:HB2	57:BZ:167:PRO:C	2.17	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
1:AA:1500:A:H5''	1:AA:1508:G: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:52:LEU:HB3	3:AC:70:VAL:HG22	1.78	0.65
3:AC:120:VAL:HG12	3:AC:121:ALA:N	2.11	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
19:AS:26:GLY:HA2	29:B4:47:GLN:C	2.17	0.65
25:B0:26:TYR:CE2	35:BA:857:C:H1'	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B0:45:PHE:HB2	25:B0:59:LEU:HD11	1.77	0.65
27:B2:32:LEU:O	27:B2:35:LEU:HB3	1.97	0.65
32:B7:37:LYS:NZ	35:BA:468:G:OP2	2.30	0.65
35:BA:45:C:OP2	35:BA:215:G:H5''	1.97	0.65
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	1.95	0.65
35:BA:366:C:H5''	35:BA:403:U:N3	2.11	0.65
35:BA:560:C:H2'	35:BA:561:G:C8	2.32	0.65
35:BA:887:A:H2'	35:BA:887:A:N3	2.11	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:2787:C:O2	35:BA:2787:C:H2'	1.95	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:63:ARG:O	38:BD:64:ILE:O	2.15	0.65
38:BD:265:PRO:O	38:BD:267:SER:O	2.15	0.65
40:BF:81:PRO:O	40:BF:82:ILE:O	2.14	0.65
42:BH:37:VAL:HG22	42:BH:72:ILE:CD1	2.26	0.65
42:BH:147:ASN:O	42:BH:151:ILE:HD11	1.97	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:726:C:O2'	1:AA:727:G:H5'	1.97	0.64
1:AA:1060:C:H4'	10:AJ:51:ARG:HB3	1.78	0.64
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.27	0.64
1:AA:1151:A:N3	10:AJ:39:PRO:HG3	2.12	0.64
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.32	0.64
1:AA:1359:C:C6	14:AN:35:ARG:NH2	2.65	0.64
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.61	0.64
3:AC:120:VAL:O	3:AC:122:GLU:N	2.29	0.64
13:AM:56:LEU:CD1	13:AM:60:VAL:HG21	2.26	0.64
24:AY:123:THR:HA	24:AY:126:LEU:HD12	1.79	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
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:1820:U:O2	38:BD:201:HIS:HB3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:121:PRO:C	38:BD:123:ALA:H	2.00	0.64
38:BD:148:GLU:CB	38:BD:151:LYS:HD3	2.22	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:33:A:OP2	1:AA:398:C:H5'	1.98	0.64
1:AA:109:A:O3'	1:AA:110:C:H6	1.81	0.64
1:AA:1081:G:O2'	1:AA:1082:G:H5'	1.96	0.64
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.30	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
2:AB:92:TYR:HD1	2:AB:93:VAL:N	1.95	0.64
2:AB:138:LEU:HD23	2:AB:138:LEU:N	2.11	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
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: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
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:2679:A:P	39:BE:160:TYR:HH	2.20	0.64
37:BC:181:PRO:HB2	37:BC:182:PRO:CD	2.28	0.64
38:BD:65:ILE:HB	38:BD:67:PHE:CE2	2.31	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
39:BE:111:ARG:HD2	39:BE:161:GLY:HA3	1.79	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: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
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.32	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
30:B5:25:LEU:HD12	54:BW:23:LEU:HB2	1.79	0.64
32:B7:7:PRO:HG3	35:BA:1612:C:H5'	1.78	0.64
32:B7:16:HIS:CA	32:B7:21:ARG:HH12	2.10	0.64
35:BA:443:A:N6	40:BF:41:LEU:O	2.24	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
46:BO:6:THR:HG22	46:BO:7:TYR:H	1.62	0.64
46:BO:11:ALA:HB1	46:BO:99:PHE:O	1.97	0.64
46:BO:85:VAL:HG21	46:BO:114:ILE:HG12	1.79	0.64
57:BZ:77:ASP:O	57:BZ:79:ARG:N	2.30	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
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
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:O	15:AO:42:HIS:HD2	1.80	0.64
17:AQ:8:GLY:HA3	17:AQ:21:VAL:HG12	1.80	0.64
17:AQ:75:ARG:NH1	17:AQ:75:ARG:HG3	2.10	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:HD13	24:AY:431:ILE:N	2.09	0.64
26:B1:19:GLN:NE2	35:BA:2081:C:OP1	2.30	0.64
35:BA:18:C:O3'	52:BU:23:GLY:HA2	1.98	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: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
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: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:1889:A:H1'	35:BA:2087:G:O4'	1.97	0.64
38:BD:24:ILE:HG22	38:BD:25:THR:N	2.11	0.64
39:BE:81:ILE:HG22	39:BE:81:ILE:O	1.97	0.64
41:BG:139:LEU:HD22	41:BG:146:TYR:HB3	1.79	0.64
42:BH:162:ILE:O	42:BH:162:ILE:CD1	2.45	0.64
43:BJ:121:UNK:O	43:BJ:122:UNK:O	2.15	0.64
46:BO:7:TYR:C	46:BO:8:LEU:HD12	2.18	0.64
46:BO:36:GLY:HA3	46:BO:109:LYS:HE3	1.79	0.64
47:BP:95:VAL:HG23	47:BP:125:VAL:HG23	1.79	0.64
47:BP:101:VAL:CG2	47:BP:102:ARG:H	2.09	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
1:AA:403:C:H4'	4:AD:122:ARG:CZ	2.27	0.64
2:AB:17:PHE:O	2:AB:17:PHE:CD1	2.48	0.64
3:AC:128:PHE:O	3:AC:130:VAL:N	2.31	0.64
4:AD:80:GLU:HA	4:AD:80:GLU:OE1	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:B7:12:ARG:NH2	35:BA:465:G:OP1	2.25	0.64
32:B7:18:PHE:CZ	32:B7:22:MET:SD	2.90	0.64
35:BA:783:A:C8	35:BA:784:A:H4'	2.33	0.64
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.33	0.64
35:BA:1310:G:O4'	35:BA:1611:C:H4'	1.97	0.64
35:BA:1495:A:H3'	35:BA:1496:A:C2	2.32	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
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:259:G:O2'	1:AA:260:G:H5'	1.97	0.64
1:AA:390:C:C4'	16:AP:28:ARG:HH21	2.05	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:436:C:H2'	1:AA:437:U:C6	2.33	0.64
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.57	0.64
1:AA:1495:U:OP1	13:AM:125:ARG:HD3	1.98	0.64
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.97	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
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
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
25:B0:33:ALA:O	35:BA:2352:A:C2	2.50	0.64
26:B1:50:ARG:HG2	26:B1:59:THR:HG22	1.80	0.64
35:BA:145:G:H3'	35:BA:146:G:H5''	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
35:BA:1407:C:H5'	35:BA:1408:C:OP2	1.97	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
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
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:O	42:BH:104:GLU:HG3	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: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
1:AA:1066:C:H5'	1:AA:1067:A:OP2	1.98	0.64
2:AB:187:LEU:HD13	2:AB:205:ASP:HB3	1.79	0.64
5:AE:77:PRO:HG2	5:AE:142:LEU:HD22	1.79	0.64
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.13	0.64
15:AO:74:ASP:OD1	15:AO:74:ASP:C	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:32:LYS:O	24:AY:35:LEU:HB2	1.98	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: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: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
35:BA:966:G:O4'	35:BA:2267:A:N6	2.30	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:1754:C:H5'	51:BT:101:PHE:CZ	2.33	0.64
35:BA:1837:C:N3	35:BA:1899:G:C6	2.65	0.64
35:BA:2283:C:N4	35:BA:2389:G:C5	2.66	0.64
35:BA:2305:A:C2	35:BA:2306:C:C1'	2.80	0.64
35:BA:2599:G:N7	38:BD:236:GLY:HA2	2.13	0.64
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.46	0.64
38:BD:165:ILE:N	38:BD:165:ILE:CD1	2.61	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
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:21:THR:OG1	48:BQ:99:PRO:O	2.16	0.64
48:BQ:62:GLY:HA3	48:BQ:109:VAL:HG23	1.78	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:54:THR:O	7:AG:56:GLN:N	2.31	0.64
7:AG:144:MET:O	7:AG:147:ALA:HB3	1.97	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:199:A:C6	35:BA:2433:A:H2'	2.33	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
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:2437:U:H2'	35:BA:2438:U:H6	1.63	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: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
1:AA:1075:C:H4'	1:AA:1101:A:N6	2.12	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:HG23	19:AS:31:ILE:O	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:601:C:C5'	40:BF:108:LYS:NZ	2.61	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
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
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
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:O	52:BU:88:ILE:HG13	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
1:AA:1423:G:C5'	46:BO:49:ARG:HH12	2.11	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:814:C:H2'	35:BA:815:C:H6	1.63	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:H8	35:BA:2577:A:O5'	1.79	0.63
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.79	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
46:BO:5:GLN:O	46:BO:5:GLN:HG3	1.97	0.63
49:BR:96:ARG:HB2	49:BR:96:ARG:NH1	2.13	0.63
51:BT:16:ARG:HH11	51:BT:16:ARG:CB	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:HG2	19:AS:17:GLU:O	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:529:A:C5	35:BA:2042:A:C2	2.86	0.63
35:BA:1155:A:OP1	52:BU:55:ARG:NE	2.28	0.63
35:BA:1267:U:C6	35:BA:2012:G:N2	2.66	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: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
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:81:PRO:HG2	40:BF:82:ILE:HG22	1.81	0.63
40:BF:159:GLY:N	40:BF:178:PRO:HD3	2.14	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
54:BW:76:VAL:HG23	54:BW:103:ILE:HG23	1.81	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
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.97	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:560:C:H2'	35:BA:561:G:H8	1.64	0.63
35:BA:1569:A:C2	35:BA:1570:A:C5	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1833:U:C2	35:BA:1834:U:C5	2.86	0.63
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
36:BB:70:C:O2'	36:BB:71:C:H5'	1.98	0.63
36:BB:102:A:H5'	36:BB:103:G:OP2	1.97	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: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
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
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:58:LEU:HD12	4:AD:59:ARG:NH1	2.07	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
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:60:LEU:HD13	41:BG:60:LEU:O	1.98	0.63
41:BG:107:LEU:HD21	41:BG:178:PHE:CE1	2.34	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:62:MET:CG	24:AY:451:ALA:HB3	2.29	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
28:B3:52:HIS:CG	36:BB:83:G:H4'	2.33	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:654(J):A:C8	35:BA:654(L):G:H1'	2.30	0.63
35:BA:811:U:H4'	35:BA:1251:C:O4'	1.97	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: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:2006:C:O2'	35:BA:2823:A:N3	2.26	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
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:CD1	50:BS:12:PHE:N	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:86:LEU:HD12	24:AY:87:LEU:H	1.63	0.63
24:AY:307:MET:HG2	24:AY:313:ASP:N	2.14	0.63
26:B1:76:ARG:NH2	26:B1:95:LEU:CD1	2.62	0.63
35:BA:55:G:H2'	35:BA:56:A:H8	1.63	0.63
35:BA:438:G:H2'	35:BA:440:G:H8	1.63	0.63
35:BA:956:G:OP2	48:BQ:87:LYS:NZ	2.30	0.63
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.28	0.63
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.22	0.63
35:BA:1654:A:OP1	49:BR:3:HIS:N	2.32	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
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
39:BE:77:ILE:CG2	39:BE:78:LEU:H	1.96	0.63
39:BE:197:ILE:HD11	39:BE:199:ARG:HH22	1.64	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:HB2	47:BP:16:ARG:HH11	1.61	0.63
49:BR:2:ARG:HH11	49:BR:2:ARG:HG3	1.63	0.63
49:BR:71:GLN:HE21	49:BR:71:GLN:HA	1.63	0.63
50:BS:29:PHE:C	50:BS:29:PHE:CD1	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:32:LYS:HZ3	24:AY:260:LEU:HA	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:177:LYS:HE2	35:BA:2654:A:OP1	1.99	0.63
28:B3:13:ILE:HD11	35:BA:989:G:C4	2.34	0.63
35:BA:695:G:C4	35:BA:696:G:C8	2.87	0.63
35:BA:2147:G:H2'	35:BA:2148:G:H5'	1.81	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:7:LEU:O	41:BG:11:TYR:N	2.31	0.63
41:BG:60:LEU:O	41:BG:63:ILE:HG12	1.98	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
19:AS:47:HIS:NE2	29:B4:47:GLN:HB2	2.13	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:177:LYS:HG2	35:BA:2654:A:OP1	1.98	0.63
24:AY:201:ILE:HA	24:AY:262:ASN:HD22	1.62	0.63
30:B5:19:ARG:HA	35:BA:2046:G:O5'	1.99	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
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
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:398:PHE:CE1	24:AY:470:THR:HA	2.33	0.63
24:AY:415:GLY:HA3	24:AY:457:TYR:CE1	2.34	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:HD23	28:B3:28:LEU:N	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: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:H5'	35:BA:991:C:H6	1.63	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:1799:G:O3'	38:BD:260:ARG:NH2	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
38:BD:165:ILE:HA	38:BD:175:LEU:CD2	2.28	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:16:A:O2'	1:AA:17:U:H5'	1.98	0.62
1:AA:586:C:OP1	17:AQ:34:LYS:NZ	2.32	0.62
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
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
19:AS:75:ALA:N	19:AS:76:PRO:HD2	2.14	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
24:AY:171:TRP:N	24:AY:182:VAL:HG13	2.13	0.62
27:B2:32:LEU:HD12	27:B2:57:ILE:HG13	1.81	0.62
27:B2:47:ASN:O	27:B2:50:ILE:HB	1.99	0.62
30:B5:40:LYS:HG3	30:B5:41:PRO:O	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
41:BG:139:LEU:HB2	41:BG:146:TYR:HD1	1.63	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: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
1:AA:753:A:H5''	15:AO:69:TYR:CZ	2.34	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:H2'	1:AA:1447:A:N3	2.14	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:HG2	12:AL:86:ARG:O	1.99	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:305:ALA:CB	24:AY:423:GLY:H	2.12	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
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:194:G:H2'	35:BA:195:A:O4'	1.98	0.62
35:BA:675:A:O2'	40:BF:67:GLN:NE2	2.32	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: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:H8	35:BA:2673:G:H5'	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2811:G:P	39:BE:60:ASN:HB2	2.39	0.62
37:BC:120:MET:CE	37:BC:123:VAL:HG11	2.29	0.62
38:BD:198:ASN:C	38:BD:198:ASN:ND2	2.52	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:N	53:BV:39:LEU:HD22	2.13	0.62
57:BZ:45:ASP:OD2	57:BZ:49:ARG:NH2	2.32	0.62
1:AA:861:G:O2'	1:AA:862:C:H5'	1.98	0.62
1:AA:1376:U:C2	1:AA:1377:A:N7	2.68	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:C	15:AO:42:HIS:CD2	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:360:G:O2'	35:BA:361:G:H5'	1.99	0.62
35:BA:816:C:N3	35:BA:1192:G:C2	2.67	0.62
35:BA:1248:G:OP2	40:BF:92:PRO:HG3	2.00	0.62
35:BA:1286:A:H2'	35:BA:1288:U:OP2	1.99	0.62
35:BA:2230:G:H8	35:BA:2230:G:O5'	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
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
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:125:U:H2'	1:AA:126:G:C8	2.34	0.62
1:AA:306:G:C2'	1:AA:307:C:H5'	2.29	0.62
1:AA:1231:G:O2'	1:AA:1232:U:H5'	1.99	0.62
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.64	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:HD23	18:AR:31:LEU:H	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: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
35:BA:2043:C:OP1	35:BA:2777:G:O2'	2.15	0.62
35:BA:2444:G:P	40:BF:68:LYS:HE3	2.39	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
41:BG:25:TYR:CE2	41:BG:32:PRO:HD3	2.34	0.62
45:BN:9:VAL:CG1	45:BN:39:ARG:HH22	2.12	0.62
45:BN:46:VAL:HG12	45:BN:48:MET:HG3	1.81	0.62
46:BO:35:VAL:HG11	46:BO:103:ALA:HB3	1.80	0.62
48:BQ:12:GLN:OE1	48:BQ:72:LYS:HA	1.99	0.62
48:BQ:106:VAL:O	48:BQ:107:ALA:HB2	2.00	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:397:A:H3'	1:AA:397:A:N3	2.14	0.62
1:AA:587:G:OP1	8:AH:92:ARG:NH1	2.32	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
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:92:VAL:O	4:AD:96:LEU:HD13	1.98	0.62
4:AD:127:THR:N	4:AD:147:ALA:O	2.32	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:58:G:N3	35:BA:73:A:H2	1.97	0.62
35:BA:307:G:H22	35:BA:310:A:C5'	2.13	0.62
35:BA:743:G:O3'	39:BE:132:HIS:HB3	1.99	0.62
35:BA:1137:G:O2'	35:BA:2039:C:H5''	1.99	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: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
37:BC:186:ALA:HB1	37:BC:190:ARG:CZ	2.29	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:O	41:BG:92:VAL:HG13	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:4:ILE:CD1	53:BV:40:LEU:HB2	2.30	0.62
53:BV:40:LEU:HD13	53:BV:46:VAL:H	1.64	0.62
55:BX:49:VAL:HG11	55:BX:88:LYS:O	1.98	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:142:G:O2'	1:AA:196:A:N1	2.31	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: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:1070:A:N6	44:BK:7:UNK:C	2.62	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:2132:U:H3	37:BC:5:LYS:HB2	1.63	0.62
35:BA:2325:G:H2'	35:BA:2326:C:C6	2.34	0.62
38:BD:24:ILE:HD13	38:BD:84:TYR:HA	1.81	0.62
38:BD:24:ILE:HG23	38:BD:83:GLU:CA	2.29	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
52:BU:36:ARG:NH1	52:BU:36:ARG:HB2	2.15	0.62
57:BZ:68:PRO:C	57:BZ:91:LEU:HD12	2.20	0.62
1:AA:543:C:H5'	4:AD:14:ARG:NH2	2.15	0.62
1:AA:787:A:C2'	1:AA:788:U:H5'	2.30	0.62
1:AA:1152:A:H2'	1:AA:1153:C:C5	2.35	0.62
1:AA:1483:A:C2	35:BA:1960:A:H1'	2.35	0.62
1:AA:1500:A:C2'	1:AA:1501:C:H5'	2.30	0.62
4:AD:118:ARG:O	4:AD:121:VAL:HB	1.99	0.62
5:AE:89:ILE:HG12	5:AE:90:VAL:N	2.15	0.62
7:AG:72:ARG:HB2	7:AG:142:GLU:OE2	2.00	0.62
7:AG:122:HIS:O	7:AG:125:MET:N	2.33	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:30:THR:HG21	24:AY:88:ASP:HB2	1.81	0.62
24:AY:146:ARG:NH2	24:AY:177:LYS:HE2	2.14	0.62
24:AY:488:LYS:HB3	24:AY:518:TYR:OH	1.99	0.62
24:AY:503:TYR:CZ	24:AY:514:ALA:HB2	2.35	0.62
26:B1:54:ALA:HB3	26:B1:56:GLN:HG2	1.81	0.62
35:BA:636:G:C2'	47:BP:115:LEU:HD12	2.29	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:2101:G:C3'	35:BA:2102:U:H5''	2.29	0.62
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
37:BC:117:PRO:HG3	37:BC:145:VAL:CG1	2.30	0.62
38:BD:242:ARG:HG2	38:BD:242:ARG:NH1	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
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: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:543:C:P	4:AD:10:ARG:HH12	2.23	0.62
1:AA:689:C:O2'	1:AA:690:G:H5'	1.99	0.62
1:AA:1134:G:N2	1:AA:1141:C:C2	2.67	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:OE1	15:AO:41:GLU:HA	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: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
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
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:62:LEU:HD22	47:BP:62:LEU:H	1.64	0.62
47:BP:146:VAL:HG13	47:BP:147:LEU:N	2.15	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:51:ALA:O	57:BZ:53:ILE:N	2.32	0.62
57:BZ:151:HIS:HB3	57:BZ:170:THR:HA	1.81	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
1:AA:1351:U:H4'	7:AG:33:ASP:OD2	1.99	0.62
2:AB:80:ILE:H	2:AB:80:ILE:CD1	2.12	0.62
2:AB:162:ILE:O	2:AB:185:ILE:CD1	2.47	0.62
5:AE:70:PRO:HG2	5:AE:142:LEU:HD13	1.82	0.62
22:AV:26:G:H22	22:AV:44:A:N6	1.98	0.62
24:AY:6:TYR:CA	24:AY:360:TYR:HE2	2.13	0.62
24:AY:487:ARG:C	24:AY:489:ASN:N	2.50	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:HG3	28:B3:35:ARG:NH1	2.15	0.62
35:BA:271(T):C:H2'	35:BA:271(U):G:H8	1.65	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
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:2681:C:C5	35:BA:2727:G:N2	2.68	0.62
38:BD:35:LYS:HG2	38:BD:63:ARG:HG2	1.80	0.62
38:BD:72:LYS:CD	38:BD:97:TYR:CE2	2.83	0.62
38:BD:95:LEU:H	38:BD:95:LEU:HD13	1.65	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
39:BE:87:GLU:O	39:BE:87:GLU:CG	2.48	0.62
46:BO:4:PRO:HA	46:BO:21:CYS:O	1.99	0.62
48:BQ:57:HIS:ND1	48:BQ:57:HIS:O	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: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
1:AA:1180:A:OP1	9:AI:103:THR:HG23	1.99	0.62
1:AA:1332:A:O2'	1:AA:1333:A:H5'	2.00	0.62
2:AB:8:LYS:NZ	2:AB:217:ARG:NH1	2.48	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
4:AD:5:ILE:HA	4:AD:115:ARG:NH1	2.15	0.62
6:AF:43:LEU:N	6:AF:43:LEU:HD22	2.14	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:N	15:AO:15:PHE:CD1	2.67	0.62
18:AR:31:LEU:O	18:AR:31:LEU:HG	2.00	0.62
24:AY:10:VAL:HG22	24:AY:360:TYR:CD2	2.35	0.62
24:AY:181:GLY:HA3	24:AY:263:PHE:CE1	2.21	0.62
24:AY:305:ALA:HA	24:AY:422:GLU:HB3	1.80	0.62
24:AY:316:ALA:O	24:AY:317:PHE:O	2.18	0.62
26:B1:82:LEU:O	26:B1:83:GLU:HG3	2.00	0.62
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.00	0.62
35:BA:644:A:N1	35:BA:2369:A:H1'	2.14	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: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
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: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:736:C:O2'	6:AF:90:VAL:O	2.17	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:69:LEU:HD23	2:AB:159:PRO:CG	2.30	0.61
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
7:AG:148:ASN:C	7:AG:150:ALA:H	2.03	0.61
8:AH:1:MET:HE1	8:AH:3:THR:HG23	1.81	0.61
8:AH:13:ILE:C	8:AH:17:THR:HG23	2.20	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:18:ILE:HD12	24:AY:30:THR:OG1	2.00	0.61
24:AY:142:ASN:HD21	58:AY:1000:GCP:C5	2.13	0.61
29:B4:35:VAL:CG1	29:B4:36:CYS:H	2.12	0.61
30:B5:19:ARG:HA	35:BA:2046:G:C5'	2.30	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:1911:U:C2'	35:BA:1918:A:C2	2.77	0.61
35:BA:1917:U:O5'	35:BA:1917:U:H6	1.83	0.61
35:BA:2131:G:H5''	35:BA:2132:U:O5'	1.99	0.61
35:BA:2572:A:N7	39:BE:144:ARG:HG2	2.14	0.61
38:BD:68:LYS:HB3	38:BD:70:TRP:CZ3	2.34	0.61
38:BD:186:HIS:NE2	38:BD:188:GLU:CD	2.53	0.61
39:BE:47:VAL:HB	39:BE:84:PHE:HD1	1.65	0.61
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	1.82	0.61
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.63	0.61
40:BF:170:LEU:HB3	40:BF:173:VAL:HG23	1.81	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:16:ARG:NH2	47:BP:18:ARG:HG3	2.15	0.61
47:BP:127:ALA:O	47:BP:148:LEU:HD12	2.00	0.61
48:BQ:133:ARG:HB3	48:BQ:133:ARG:NH1	2.12	0.61
50:BS:58:LEU:HD23	50:BS:65:VAL:HG13	1.82	0.61
50:BS:62:LYS:H	50:BS:65:VAL:CG2	2.13	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:354:G:H21	1:AA:388:G:H2'	1.65	0.61
1:AA:952:U:H6	1:AA:952:U:O5'	1.83	0.61
1:AA:981:U:O5'	1:AA:981:U:H6	1.83	0.61
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.35	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: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
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:H8	35:BA:2338:G:O5'	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
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:26:LYS:NZ	38:BD:113:VAL:CG2	2.54	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
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:503:C:O2'	1:AA:504:C:H5'	2.01	0.61
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:940:C:H2'	1:AA:941:G:C8	2.34	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
2:AB:9:GLU:N	2:AB:9:GLU:OE1	2.33	0.61
4:AD:65:ARG:HB2	4:AD:75:PHE:CD2	2.35	0.61
4:AD:118:ARG:CZ	4:AD:136:PRO:HG2	2.30	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:16:PHE:CE2	24:AY:84:VAL:HG11	2.35	0.61
24:AY:225:GLN:HA	24:AY:228:ARG:CB	2.27	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
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
38:BD:26:LYS:H72	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:83:LEU:H	52:BU:83:LEU:CD1	2.13	0.61
52:BU:102:GLU:HB2	52:BU:105:VAL:HG21	1.83	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
1:AA:728:A:N6	15:AO:51:HIS:CD2	2.69	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
13:AM:102:ARG:HD3	13:AM:105:THR:OG1	2.01	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
30:B5:11:THR:OG1	35:BA:1264:G:H5'	2.00	0.61
35:BA:1057:A:H2'	35:BA:1058:G:H5'	1.83	0.61
35:BA:1776:G:O5'	35:BA:1776:G:C8	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
48:BQ:137:TYR:OH	57:BZ:81:ARG:NE	2.33	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:9:VAL:HG23	52:BU:10:ARG:N	2.15	0.61
52:BU:88:ILE:HG22	53:BV:48:GLY:O	2.01	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
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
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
2:AB:36:ARG:HA	2:AB:36:ARG:NE	2.15	0.61
2:AB:210:SER:O	2:AB:213:LEU:HB3	1.99	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:B3:7:LYS:HG3	28:B3:32:GLN:O	1.99	0.61
28:B3:35:ARG:HG2	28:B3:36:VAL:H	1.64	0.61
30:B5:49:CYS:O	30:B5:56:LYS:CD	2.47	0.61
35:BA:8:A:H2'	35:BA:9:U:C5	2.35	0.61
35:BA:40:C:H2'	35:BA:41:C:C6	2.35	0.61
35:BA:327:G:C2	35:BA:336:C:N3	2.68	0.61
35:BA:372:G:H1'	35:BA:373:U:H5	1.65	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:909:A:O2'	35:BA:910:A:H5'	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:946:G:O2'	35:BA:947:G:H5'	2.01	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
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:44:ASN:ND2	38:BD:47:GLY:C	2.54	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
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: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
1:AA:1195:C:C4	1:AA:1197:G:N7	2.68	0.61
6:AF:98:LEU:N	6:AF:98:LEU:CD1	2.60	0.61
7:AG:124:LEU:O	7:AG:127:ALA:HB3	2.01	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
24:AY:101:ARG:NH1	24:AY:390:ILE:HG23	2.15	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
30:B5:25:LEU:HB3	54:BW:23:LEU:HD13	1.80	0.61
35:BA:336:C:H4'	56:BY:7:VAL:HG21	1.81	0.61
35:BA:482:A:H4'	56:BY:47:LYS:HG2	1.83	0.61
35:BA:886:C:C2'	35:BA:887:A:O5'	2.47	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:2244:U:H1'	35:BA:2434:A:C5	2.36	0.61
35:BA:2246:G:O2'	35:BA:2247:A:H5'	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
54:BW:88:ARG:HG2	54:BW:88:ARG:NH1	2.14	0.61
1:AA:229:U:OP1	16:AP:59:TRP:HH2	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:619:U:O2'	4:AD:133:VAL:HG13	2.00	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
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
24:AY:19:ILE:O	24:AY:19:ILE:HG13	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:391:G:O2'	35:BA:392:C:H5'	2.01	0.61
35:BA:583:G:P	52:BU:10:ARG:HH11	2.24	0.61
35:BA:1257:C:O2'	40:BF:84:VAL:N	2.34	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
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
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
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:404:U:H5''	4:AD:122:ARG:HD3	1.83	0.61
1:AA:954:G:N2	1:AA:1228:C:N3	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:63:ASN:HA	3:AC:98:ASN:O	2.01	0.61
3:AC:157:ILE:HB	3:AC:164:ARG:HH21	1.64	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:B3:8:LEU:HD23	28:B3:8:LEU:C	2.21	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
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: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:615:G:OP2	40:BF:40:GLN:HG3	2.00	0.61
35:BA:833:U:H2'	35:BA:834:C:H6	1.65	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:2023:G:H5'	35:BA:2617:C:H4'	1.82	0.61
35:BA:2049:G:H1'	39:BE:113:PHE:HZ	1.66	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:2692:C:H2'	35:BA:2693:A:H8	1.65	0.61
35:BA:2808:U:H5'	35:BA:2891:G:O6	2.01	0.61
35:BA:2821:A:H2'	35:BA:2822:G:C8	2.36	0.61
36:BB:115:G:C4	36:BB:116:G:C8	2.89	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
37:BC:141:LYS:HZ3	37:BC:164:ARG:HH21	1.47	0.61
38:BD:10:THR:O	38:BD:11:PRO:C	2.39	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:109:ILE:HG23	8:AH:137:VAL:O	2.00	0.61
8:AH:119:LEU:HB3	8:AH:123:GLU:HB3	1.83	0.61
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.16	0.61
17:AQ:91:ARG:HH11	17:AQ:91:ARG:HB3	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
33:B8:8:LYS:NZ	35:BA:244:A:OP2	2.33	0.61
35:BA:583:G:P	52:BU:10:ARG:NH1	2.73	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
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.36	0.61
35:BA:2012:G:C5'	54:BW:96:ILE:HD11	2.30	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
36:BB:68:C:H2'	36:BB:69:G:O4'	2.01	0.61
37:BC:45:ALA:O	37:BC:47:LEU:HD12	2.01	0.61
37:BC:46:LYS:HG3	37:BC:46:LYS:O	2.01	0.61
37:BC:103:ILE:HG23	37:BC:107:TRP:NE1	2.15	0.61
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.30	0.61
39:BE:28:ALA:CB	39:BE:182:LEU:HD22	2.30	0.61
39:BE:48:GLN:HE22	39:BE:64:LYS:NZ	1.99	0.61
39:BE:138:PRO:HD2	39:BE:139:GLY:H	1.65	0.61
39:BE:198:VAL:CG1	39:BE:199:ARG:N	2.64	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
55:BX:78:LYS:O	55:BX:78:LYS:HG3	2.00	0.61
57:BZ:10:ARG:NE	57:BZ:36:LYS:HB2	2.14	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
1:AA:1298:C:N4	7:AG:114:ARG:HB3	2.15	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:7:G:H2'	22:AV:49:G:OP2	2.01	0.61
22:AV:35:A:O2'	22:AV:36:U:H5'	2.01	0.61
24:AY:70:ILE:HG23	24:AY:95:PHE:CE1	2.35	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
30:B5:4:HIS:CG	35:BA:2577:A:HO2'	2.19	0.61
35:BA:111:A:H2'	35:BA:112:U:C6	2.35	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
35:BA:961:C:C5	35:BA:2031:A:C2	2.89	0.61
35:BA:1087:G:H8	35:BA:1088:A:H4'	1.65	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:2484:G:O2'	48:BQ:124:LYS:HB3	2.00	0.61
36:BB:13:A:HO2'	36:BB:14:U:H3'	1.65	0.61
36:BB:111:G:C2'	36:BB:112:U:H5'	2.30	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:99:TYR:CE1	57:BZ:125:LEU:HD12	2.33	0.61
57:BZ:151:HIS:HA	57:BZ:171:ILE:CG1	2.30	0.61
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
1:AA:1009:G:H2'	1:AA:1010:G:H8	1.65	0.60
1:AA:1047:G:C5'	14:AN:4:LYS:HE2	2.28	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
9:AI:114:TYR:HE2	10:AJ:59:SER:CA	2.14	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:739:G:N2	35:BA:740:U:O4	2.31	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:2097:C:C2	35:BA:2193:G:N1	2.68	0.60
35:BA:2185:C:H2'	35:BA:2186:G:H5'	1.82	0.60
35:BA:2801:A:C8	35:BA:2894:G:OP1	2.48	0.60
38:BD:215:LEU:HB2	38:BD:217:ARG:HG3	1.83	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
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
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:HG2	6:AF:87:ARG:NH1	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:9:GLU:OE1	24:AY:360:TYR:OH	2.17	0.60
24:AY:327:LYS:HD3	24:AY:357:GLU:HG3	1.82	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:67:U:H2'	35:BA:68:G:H8	1.65	0.60
35:BA:80:G:O2'	35:BA:81:G:H5'	2.00	0.60
35:BA:733:G:N2	35:BA:734:A:N7	2.48	0.60
35:BA:833:U:C5'	47:BP:48:PRO:HG3	2.20	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:OP2	35:BA:2319:G:H4'	2.01	0.60
38:BD:87:ASN:HD22	38:BD:88:ARG:CZ	2.14	0.60
38:BD:160:GLY:H	38:BD:196:VAL:HG12	1.65	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:O	45:BN:93:THR:HG23	2.01	0.60
48:BQ:63:LYS:CG	57:BZ:175:VAL:HG21	2.29	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
1:AA:507:C:OP1	1:AA:508:C:H3'	2.01	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
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: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
35:BA:1934:C:O2'	35:BA:1935:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2109:U:H1'	35:BA:2181:G:C2	2.36	0.60
35:BA:2199:A:H2'	35:BA:2199:A:N3	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
35:BA:2529:G:OP2	35:BA:2530:A:H8	1.83	0.60
35:BA:2875:C:H4'	51:BT:5:ALA:HB2	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
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:88:ALA:HB2	2:AB:219:VAL:HG13	1.84	0.60
2:AB:102:LEU:CD1	2:AB:102:LEU:H	2.15	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: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
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
33:B8:56:GLU:CD	33:B8:56:GLU:N	2.51	0.60
34:B9:16:VAL:O	34:B9:17:ILE:O	2.18	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
35:BA:1266:G:O2'	35:BA:2012:G:O6	2.17	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: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
37:BC:4:GLY:O	37:BC:7:TYR:N	2.33	0.60
37:BC:167:LYS:O	37:BC:168:THR:HG23	2.00	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:253:U:N3	1:AA:274:A:H2	2.00	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
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
28:B3:13:ILE:HD11	35:BA:989:G:C6	2.37	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
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:1653:G:H5''	35:BA:2822:G:N1	2.17	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
36:BB:68:C:C2	36:BB:69:G:C8	2.89	0.60
37:BC:49:ILE:CG2	37:BC:208:PHE:HE1	2.14	0.60
37:BC:59:ARG:NH1	37:BC:164:ARG:NH1	2.49	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:23:LEU:HB3	45:BN:60:ILE:CG2	2.26	0.60
45:BN:101:HIS:O	45:BN:102:ALA:C	2.39	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:28:MET:HE3	57:BZ:35:ARG:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:166:SER:HB2	57:BZ:168:GLU:HB3	1.83	0.60
1:AA:19:C:O2'	1:AA:20:U:H5'	2.01	0.60
1:AA:169:C:H2'	1:AA:170:U:H5'	1.83	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
1:AA:1060:C:P	14:AN:45:ARG:HH22	2.25	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
2:AB:74:LYS:HB2	2:AB:74:LYS:NZ	2.15	0.60
2:AB:148:TYR:C	2:AB:149:LEU:HD23	2.22	0.60
3:AC:58:GLU:C	3:AC:59:ARG:HG2	2.21	0.60
3:AC:142:MET:O	3:AC:144:SER:N	2.34	0.60
4:AD:13:ARG:HA	4:AD:33:MET:HE2	1.82	0.60
4:AD:200:GLU:O	4:AD:204:ILE:HG13	2.01	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
24:AY:189:GLU:HB2	24:AY:206:ILE:CG2	2.31	0.60
24:AY:231:LEU:O	24:AY:231:LEU:HD12	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:204:A:OP1	35:BA:204:A:H8	1.84	0.60
35:BA:730:C:H2'	35:BA:731:C:H6	1.64	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: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
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:668:G:O4'	15:AO:49:ASP:HB2	2.02	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
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
2:AB:12:GLU:C	2:AB:14:GLY:N	2.53	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:B5:4:HIS:CB	30:B5:5:PRO:CD	2.78	0.60
30:B5:25:LEU:HD12	54:BW:19:LEU:O	2.01	0.60
35:BA:221:A:O2'	35:BA:222:A:OP2	2.18	0.60
35:BA:977:G:O2'	35:BA:978:G:H5'	2.02	0.60
35:BA:1068:G:OP2	44:BK:22:UNK:N	2.35	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:2469:A:H3'	35:BA:2470:G:O4'	2.02	0.60
35:BA:2579:C:C4'	39:BE:134:ILE:HG21	2.32	0.60
35:BA:2689:U:H4'	35:BA:2690:C:OP2	2.01	0.60
36:BB:30:C:H2'	36:BB:31:C:O4'	2.01	0.60
38:BD:43:ARG:HD2	38:BD:49:ILE:HD13	1.84	0.60
38:BD:183:ARG:NH2	38:BD:269:PHE:HD2	2.00	0.60
38:BD:183:ARG:HB2	38:BD:270:ILE:HG22	1.84	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
40:BF:28:ILE:H	40:BF:28:ILE:CD1	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
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:141:A:C4'	1:AA:182:U:H1'	2.32	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
1:AA:920:U:C1'	1:AA:1080:A:C2	2.84	0.60
1:AA:1049:U:HO2'	14:AN:2:ALA:N	2.00	0.60
1:AA:1423:G:H5''	46:BO:49:ARG:NH1	2.16	0.60
5:AE:136:MET:HA	5:AE:139:LEU:HD12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.66	0.60
11:AK:32:ILE:HD13	11:AK:72:ALA:HB2	1.84	0.60
11:AK:91:ARG:HG3	11:AK:91:ARG:NH1	2.13	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:305:ALA:HB2	24:AY:423:GLY:H	1.65	0.60
24:AY:349:MET:HE3	24:AY:358:GLU:CG	2.29	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:483:A:H4'	56:BY:48:ALA:O	2.01	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
35:BA:1050:A:H1'	35:BA:2751:G:N2	2.16	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
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:51:PHE:HD1	39:BE:52:LEU:N	1.96	0.60
39:BE:195:LEU:O	39:BE:196:VAL:HG13	2.01	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
57:BZ:120:ILE:CG1	57:BZ:172:ALA:HA	2.27	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:836:G:C6	1:AA:851:G:C6	2.90	0.60
1:AA:848:C:H2'	1:AA:849:C:H6	1.66	0.60
1:AA:1060:C:H5'	14:AN:45:ARG:HH21	1.66	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.64	0.60
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
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:B1:45:ASN:HB2	35:BA:397:G:H5''	1.83	0.60
26:B1:87:PRO:HG2	26:B1:88:LYS:N	2.17	0.60
35:BA:479:A:N3	35:BA:481:G:O4'	2.35	0.60
35:BA:532:A:H5''	52:BU:28:ARG:NH2	2.15	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
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
35:BA:2845:G:H5''	51:BT:54:ARG:O	2.01	0.60
37:BC:41:VAL:HG12	37:BC:43:VAL:HG23	1.84	0.60
37:BC:47:LEU:CD1	37:BC:171:ILE:HD12	2.30	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:N	51:BT:32:TYR:HD1	1.99	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: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
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
2:AB:222:ILE:HD13	2:AB:222:ILE:H	1.67	0.60
3:AC:5:ILE:HG21	14:AN:58:LYS:NZ	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:50:GLU:HA	5:AE:50:GLU:OE1	2.02	0.60
7:AG:49:ILE:O	7:AG:50:ILE:C	2.40	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: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
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
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:92:ARG:HD3	52:BU:94:ASN:CB	2.24	0.60
52:BU:115:ALA:O	52:BU:117:GLN:N	2.35	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: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
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
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: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
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1598:C:H5'	55:BX:36:LYS:HD3	1.84	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
35:BA:2769:C:H2'	35:BA:2770:G:C8	2.37	0.59
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.51	0.59
38:BD:70:TRP:NE1	38:BD:150:LYS:HE3	2.16	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
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: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
42:BH:137:ASP:O	42:BH:141:VAL:HG13	2.02	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:48:ILE:O	51:BT:63:VAL:HG13	2.01	0.59
51:BT:62:THR:HA	51:BT:75:ILE:HA	1.83	0.59
52:BU:92:ARG:HB2	53:BV:11:GLN:NE2	2.17	0.59
52:BU:112:ARG:O	52:BU:115:ALA:HB3	2.01	0.59
53:BV:28:GLU:HB3	53:BV:29:PRO:CD	2.32	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
1:AA:1179:A:H2'	1:AA:1180:A:O5'	2.01	0.59
3:AC:165:THR:HG23	3:AC:165:THR:O	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:4:SER:OG	24:AY:5:PRO:HD2	2.01	0.59
24:AY:307:MET:HG2	24:AY:313:ASP:H	1.67	0.59
26:B1:22:GLY:O	26:B1:32:LYS:HE2	2.01	0.59
35:BA:271(L):U:H5''	35:BA:271(M):G:C5'	2.26	0.59
35:BA:1264:G:C8	35:BA:1265:A:C8	2.90	0.59
35:BA:1266:G:O2'	35:BA:2012:G:C6	2.55	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: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:47:LEU:N	37:BC:47:LEU:CD1	2.63	0.59
37:BC:49:ILE:HG23	37:BC:208:PHE:CD1	2.37	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:55:A:C4	24:AY:311:HIS:NE2	2.69	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
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: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:687:C:H42	35:BA:787:U:H4'	1.66	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:2312:U:OP1	41:BG:73:ALA:CA	2.50	0.59
35:BA:2737:G:H8	35:BA:2737:G:O5'	1.86	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:37:LEU:HD13	38:BD:62:TYR:CD1	2.38	0.59
38:BD:117:VAL:HG22	38:BD:118:VAL:H	1.67	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:6:THR:HG21	52:BU:10:ARG:NH2	2.17	0.59
52:BU:43:GLY:O	53:BV:73:SER:O	2.20	0.59
56:BY:15:VAL:HB	56:BY:23:ARG:O	2.02	0.59
57:BZ:63:ASP:HB3	57:BZ:65:GLN:NE2	2.17	0.59
57:BZ:177:PRO:O	57:BZ:178:GLU:OE1	2.19	0.59
1:AA:896:C:H2'	1:AA:897:C:H5'	1.84	0.59
1:AA:1013:G:O2'	1:AA:1015:A:N7	2.34	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:HD12	10:AJ:8:LEU:N	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:H	19:AS:16:LEU:CD1	2.13	0.59
19:AS:16:LEU:C	19:AS:18:LYS:H	2.04	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:25:GLY:O	24:AY:29:ILE:N	2.26	0.59
24:AY:178:LEU:O	24:AY:180:LYS:HG3	2.01	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:13:A:H61	35:BA:525:U:H3'	1.66	0.59
35:BA:44:G:H21	35:BA:435:C:N4	2.00	0.59
35:BA:233:A:H2'	35:BA:234:C:H6	1.66	0.59
35:BA:271(Y):U:OP1	35:BA:272(D):G:H5''	2.01	0.59
35:BA:782:A:H2	38:BD:226:MET:CG	2.10	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:1753:G:N2	35:BA:1758:G:N7	2.47	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:2847:U:H5''	51:BT:97:ALA:HB2	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:103:ILE:HD12	37:BC:127:MET:CE	2.32	0.59
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
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:H	24:AY:403:LEU:CD2	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:597:U:H2'	35:BA:598:G:C8	2.36	0.59
35:BA:601:C:C4'	40:BF:108:LYS:HZ1	2.16	0.59
35:BA:940:G:H2'	35:BA:941:A:H5''	1.85	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
38:BD:235:GLY:O	38:BD:236:GLY:O	2.21	0.59
40:BF:110:LEU:HD12	40:BF:206:ILE:CD1	2.32	0.59
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.84	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:46:G:O2'	1:AA:365:U:H1'	2.03	0.59
1:AA:345:C:H4'	1:AA:346:G:OP1	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
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
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:3:ILE:CD1	15:AO:8:LYS:HE2	2.32	0.59
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
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:34:LEU:HD21	24:AY:86:LEU:HD23	1.85	0.59
24:AY:128:GLU:O	24:AY:131:ARG:HG3	2.01	0.59
25:B0:20:ARG:HD3	35:BA:2356:C:O3'	2.03	0.59
32:B7:2:LYS:CE	35:BA:687:C:H5''	2.32	0.59
34:B9:29:ASN:ND2	34:B9:32:HIS:CE1	2.70	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
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
35:BA:1516:C:C2'	35:BA:1517:G:H5''	2.31	0.59
35:BA:1894:C:H2'	35:BA:1894:C:O2	2.02	0.59
35:BA:1971:A:N7	38:BD:241:PRO:HG3	2.17	0.59
35:BA:2498:C:H2'	35:BA:2499:C:H5''	1.85	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:N	45:BN:4:TYR:CD1	2.68	0.59
49:BR:20:LEU:O	49:BR:22:ARG:N	2.36	0.59
49:BR:101:ALA:O	49:BR:102:GLU:HB2	2.02	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:84:LEU:O	12:AL:101:VAL:HG23	2.03	0.59
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.02	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:601:C:H5'	40:BF:108:LYS:NZ	2.18	0.59
35:BA:783:A:C5	35:BA:785:G:C8	2.90	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
37:BC:22:ILE:HG22	37:BC:22:ILE:O	2.02	0.59
37:BC:53:ARG:NH1	37:BC:56:GLN:NE2	2.49	0.59
37:BC:171:ILE:HD13	37:BC:196:LEU:HD22	1.85	0.59
38:BD:11:PRO:O	38:BD:12:SER:OG	2.18	0.59
38:BD:91:ARG:C	38:BD:107:ALA:HB2	2.23	0.59
38:BD:124:PRO:HD2	38:BD:129:ASN:ND2	2.18	0.59
40:BF:3:GLU:HA	40:BF:24:LEU:CB	2.33	0.59
40:BF:195:ASP:O	40:BF:199:TRP:N	2.36	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:22:LYS:NZ	52:BU:29:SER:O	2.33	0.59
52:BU:68:ALA:HB1	52:BU:106:PHE:HE2	1.67	0.59
56:BY:101:LYS:CG	56:BY:102:CYS:N	2.65	0.59
1:AA:986:A:H2'	1:AA:987:G:O4'	2.03	0.59
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.38	0.59
1:AA:1503:A:H2'	23:AX:12:A:N6	2.18	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:HD12	9:AI:85:LEU:C	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
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:572:A:C2'	35:BA:573:G:O4'	2.50	0.59
35:BA:1135:C:O2	35:BA:1135:C:H2'	2.01	0.59
35:BA:1210:A:H5'	35:BA:1210:A:H8	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.67	0.59
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
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:13:ARG:HA	38:BD:16:MET:SD	2.42	0.59
38:BD:129:ASN:N	38:BD:193:VAL:CG1	2.66	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:HH11	52:BU:112:ARG:HG3	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:34:C:H2'	1:AA:35:G:H8	1.68	0.59
1:AA:344:A:H5''	1:AA:345:C:H5	1.68	0.59
1:AA:883:C:N3	1:AA:884:U:C4	2.70	0.59
1:AA:1201:A:H4'	1:AA:1202:G:C5'	2.32	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:O	8:AH:1:MET:HG2	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:7:THR:HA	17:AQ:58:GLU:HA	1.85	0.59
17:AQ:63:ARG:HG2	17:AQ:64:PRO:CD	2.33	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:N	24:AY:210:LEU:HD22	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:7:G:O2'	35:BA:8:A:H5'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:23:G:H1	35:BA:517:C:H42	1.48	0.59
35:BA:443:A:C2	35:BA:1245:G:N3	2.70	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:961:C:N4	35:BA:2031:A:H1'	2.18	0.59
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: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
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: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
1:AA:1124:G:C2	1:AA:1127:G:N2	2.71	0.59
1:AA:1392:G:N2	1:AA:1502:A:H8	2.00	0.59
1:AA:1494:G:C5	1:AA:1495:U:C4	2.90	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
25:B0:27:GLU:CD	35:BA:856:C:H1'	2.23	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:9:U:HO2'	35:BA:10:G:H8	1.50	0.59
35:BA:145:G:H2'	35:BA:146:G:O4'	2.03	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
35:BA:616:G:H5''	40:BF:103:LYS:HZ3	1.64	0.59
35:BA:989:G:C5'	35:BA:1157:G:H4'	2.27	0.59
35:BA:1133:U:O2'	35:BA:1137:G:OP1	2.17	0.59
35:BA:1190:G:OP1	47:BP:32:THR:OG1	2.20	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
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
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:54:HIS:HA	57:BZ:98:MET:HE3	1.84	0.59
57:BZ:120:ILE:N	57:BZ:120:ILE:HD13	2.18	0.59
1:AA:18:C:P	5:AE:14:ARG:HH12	2.26	0.58
1:AA:170:U:O2'	1:AA:171:A:H5'	2.03	0.58
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.17	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
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

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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:HH11	25:B0:25:ARG:HG2	1.68	0.58
29:B4:8:LYS:O	29:B4:9:LEU:HB2	2.03	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:811:U:O2	35:BA:1251:C:C5	2.56	0.58
35:BA:817:C:O2'	35:BA:839:U:H5''	2.02	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: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
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:21:THR:HA	48:BQ:98:LYS:HB2	1.83	0.58
48:BQ:131:ILE:N	48:BQ:131:ILE:CD1	2.66	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:18:C:H2'	1:AA:19:C:C6	2.38	0.58
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.02	0.58
1:AA:913:A:H4'	1:AA:914:A:C4'	2.33	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
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:HG2	15:AO:65:ARG:NH1	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:14:ARG:CG	24:AY:276:ALA:HB1	2.33	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: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:B1:48:LYS:CE	26:B1:59:THR:HB	2.33	0.58
26:B1:53:VAL:O	26:B1:54:ALA:HB3	2.03	0.58
35:BA:20:C:H2'	35:BA:21:A:C8	2.38	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: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:2680:C:H5'	39:BE:189:PRO:HA	1.85	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:6:PHE:CE2	38:BD:17:THR:HA	2.38	0.58
38:BD:147:LEU:CD2	38:BD:183:ARG:CZ	2.80	0.58
45:BN:90:MET:HE2	45:BN:94:HIS:HB2	1.85	0.58
45:BN:112:LEU:O	45:BN:115:ARG:HB3	2.02	0.58
46:BO:17:ARG:NH2	46:BO:99:PHE:CE2	2.71	0.58
49:BR:5:LYS:O	49:BR:6:SER:HB2	2.03	0.58
49:BR:47:PHE:O	49:BR:49:ASP:N	2.36	0.58
51:BT:65:LYS:HE3	51:BT:66:VAL:H	1.69	0.58
52:BU:57:PHE:O	52:BU:58:ARG:C	2.41	0.58
52:BU:109:LEU:O	52:BU:113:ALA:N	2.36	0.58
57:BZ:71:VAL:HG12	57:BZ:73:GLN:O	2.03	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
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.18	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:1799:G:OP1	38:BD:260:ARG:NE	2.36	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:N3	35:BA:2795:G:H2'	2.18	0.58
38:BD:226:MET:SD	38:BD:230:ASP:O	2.61	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:71:VAL:H	47:BP:72:PRO:HD2	1.64	0.58
47:BP:114:ILE:CG2	47:BP:130:PHE:CD1	2.86	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:878:G:P	8:AH:88:LYS:HD2	2.44	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
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:HG2	12:AL:53:ARG:NH1	2.17	0.58
12:AL:82:VAL:HG22	24:AY:406:PRO:HB3	1.84	0.58
22:AV:72:A:O2'	35:BA:1852:C:H4'	2.02	0.58
27:B2:2:LYS:NZ	27:B2:5:GLU:CD	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B6:19:ARG:HH11	31:B6:19:ARG:HG3	1.67	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:254:G:O2'	35:BA:384:U:H5'	2.03	0.58
35:BA:981:A:H8	35:BA:982:C:C5	2.22	0.58
35:BA:1057:A:C2'	35:BA:1058:G:H5'	2.33	0.58
35:BA:1070:A:C6	44:BK:7:UNK:C	2.86	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
35:BA:2243:U:O2	35:BA:2434:A:C2	2.56	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
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:65:HIS:C	42:BH:65:HIS:CD2	2.76	0.58
42:BH:109:PHE:CD2	42:BH:152:ARG:NH1	2.72	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:HA	45:BN:90:MET:HE3	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: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
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
2:AB:213:LEU:HD23	2:AB:213:LEU:C	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:448:U:H5'	35:BA:449:A:C8	2.37	0.58
35:BA:568:U:C5'	35:BA:945:A:N6	2.67	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: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
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:92:ARG:NH2	53:BV:10:LYS:HG2	2.19	0.58
52:BU:108:GLU:O	52:BU:109:LEU:C	2.41	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: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
1:AA:1014:A:H5'	19:AS:14:HIS:CD2	2.39	0.58
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.24	0.58
5:AE:24:ARG:HD3	5:AE:26:PHE:CE2	2.39	0.58
5:AE:115:VAL:HG13	5:AE:116:THR:N	2.18	0.58
7:AG:76:ARG:HH11	7:AG:76:ARG:HG2	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:28:THR:O	24:AY:32:LYS:HG3	2.03	0.58
24:AY:138:LEU:CD2	24:AY:275:TRP:CE3	2.84	0.58
24:AY:210:LEU:HD22	24:AY:210:LEU:H	1.67	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:154:G:H1	35:BA:172:C:H42	1.50	0.58
35:BA:225:A:C2'	35:BA:226:G:H5'	2.33	0.58
35:BA:1012:U:O5'	35:BA:1013:C:H5''	2.02	0.58
35:BA:1655:A:C2	35:BA:2049:G:H4'	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2115:G:C3'	35:BA:2116:G:H5''	2.34	0.58
35:BA:2177:C:HO2'	37:BC:168:THR:HG21	1.69	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
38:BD:90:ALA:HB3	38:BD:106:ILE:CG2	2.32	0.58
39:BE:200:GLU:CD	39:BE:200:GLU:H	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:30:LYS:HB2	42:BH:79:VAL:O	2.03	0.58
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.68	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: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
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
8:AH:85:ARG:HG3	8:AH:85:ARG:NH1	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:81:G:H3'	35:BA:82:G:H8	1.68	0.58
35:BA:182:A:H2'	35:BA:183:C:C6	2.39	0.58
35:BA:406:G:H2'	35:BA:407:G:C8	2.39	0.58
35:BA:913:U:HO2'	35:BA:915:C:H5	1.50	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:2443:C:H6	35:BA:2443:C:H3'	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
40:BF:154:VAL:HG12	40:BF:193:VAL:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:165:ARG:HA	40:BF:168:ARG:NH2	2.19	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: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
1:AA:586:C:O3'	8:AH:89:PRO:HB2	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
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.86	0.58
2:AB:155:LEU:CD1	2:AB:157:ARG:O	2.51	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
13:AM:120:LYS:HE3	13:AM:120:LYS:HA	1.84	0.58
24:AY:227:LEU:O	24:AY:231:LEU:HB3	2.04	0.58
24:AY:386:LYS:C	24:AY:386:LYS:HD2	2.24	0.58
35:BA:201:C:H2'	35:BA:202:U:C5'	2.34	0.58
35:BA:341:G:H2'	35:BA:342:G:O4'	2.03	0.58
35:BA:848:G:H5'	35:BA:848:G:H8	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
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:1651:G:H5'	49:BR:39:PRO:HG2	1.86	0.58
35:BA:1859:A:N6	35:BA:1883:G:H1'	2.19	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:2406:U:N3	47:BP:72:PRO:HB2	2.18	0.58
35:BA:2459:A:N1	35:BA:2494:G:N3	2.51	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:7:ARG:HB3	47:BP:8:PRO:CD	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
48:BQ:125:LEU:N	48:BQ:125:LEU:HD22	2.17	0.58
48:BQ:141:GLN:OXT	57:BZ:53:ILE:HB	2.04	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
1:AA:8:A:C5	4:AD:209:ARG:HB3	2.39	0.58
1:AA:80:G:H5''	1:AA:81:U:C5	2.38	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:833:U:C2	1:AA:834:C:C5	2.91	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
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:5:ARG:HG2	10:AJ:71:LEU:CD1	2.30	0.58
10:AJ:40:LEU:HB3	10:AJ:41:PRO:HD2	1.85	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:B8:12:LYS:CD	47:BP:68:GLN:HG3	2.32	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:9:U:O2'	35:BA:10:G:H8	1.87	0.58
35:BA:335:C:OP1	35:BA:335:C:H6	1.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2722:G:O2'	49:BR:5:LYS:CB	2.52	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
46:BO:76:ALA:HB3	51:BT:75:ILE:HD13	1.85	0.58
46:BO:120:GLU:HB2	51:BT:68:TYR:HE2	1.68	0.58
50:BS:29:PHE:HE1	50:BS:31:SER:CB	2.04	0.58
57:BZ:63:ASP:HB3	57:BZ:65:GLN:HE21	1.68	0.58
1:AA:279:A:H2'	17:AQ:95:TYR:CE1	2.39	0.58
1:AA:750:G:O2'	15:AO:21:ASP:HB2	2.04	0.58
1:AA:974:A:C8	1:AA:974:A:OP1	2.56	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:1300:G:C5	1:AA:1334:G:N7	2.71	0.58
1:AA:1314:C:OP2	19:AS:6:LYS:HG3	2.03	0.58
1:AA:1372:U:H5''	9:AI:71:SER:HB2	1.84	0.58
2:AB:157:ARG:CB	2:AB:157:ARG:NH1	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:HA	6:AF:22:GLU:OE1	2.03	0.58
10:AJ:24:VAL:O	10:AJ:28:ARG:HG3	2.04	0.58
15:AO:24:SER:OG	15:AO:27:VAL:HG23	2.04	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2744:G:H21	42:BH:143:GLN:NE2	2.02	0.58
35:BA:2839:G:H4'	49:BR:49:ASP:HB3	1.84	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
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:580:U:H4'	15:AO:58:MET:HG3	1.85	0.57
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
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: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
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
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:68:G:C2	35:BA:69:C:C2	2.91	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:471:A:C2'	35:BA:472:A:H5''	2.31	0.57
35:BA:625:G:O6	47:BP:107:LYS:HD2	2.04	0.57
35:BA:751:A:C6	35:BA:789:A:C5	2.91	0.57
35:BA:1070:A:N6	44:BK:8:UNK:HA	2.18	0.57
35:BA:2222:G:O4'	38:BD:149:PRO:HG3	2.04	0.57
35:BA:2307:G:N2	35:BA:2308:G:C5'	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H8	35:BA:2837:G:O5'	1.87	0.57
37:BC:74:VAL:HA	37:BC:112:ALA:HB3	1.85	0.57
38:BD:80:ALA:CB	38:BD:94:LEU:CD1	2.82	0.57
40:BF:7:TYR:CD2	40:BF:16:GLY:CA	2.87	0.57
40:BF:110:LEU:HD22	40:BF:183:VAL:HG13	1.85	0.57
40:BF:126:VAL:CG1	40:BF:142:TRP:HH2	2.00	0.57
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.16	0.57
41:BG:36:LYS:HE2	41:BG:38:VAL:CG2	2.34	0.57
41:BG:107:LEU:HD11	41:BG:178:PHE:HE1	1.69	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
42:BH:103:LEU:O	42:BH:105:LEU:HD22	2.04	0.57
47:BP:100:LEU:H	47:BP:100:LEU:HD22	1.69	0.57
47:BP:125:VAL:O	47:BP:125:VAL:HG13	2.04	0.57
49:BR:33:ARG:O	49:BR:34:ILE:HD13	2.04	0.57
49:BR:104:ARG:HD3	49:BR:107:ASP:OD1	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:78:PRO:CA	24:AY:83:LEU:HA	2.34	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
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
35:BA:252:G:O2'	35:BA:253:C:H5'	2.04	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:2514:U:H2'	35:BA:2515:C:O4'	2.03	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:2821:A:P	39:BE:110:GLY:H	2.24	0.57
37:BC:103:ILE:HG22	37:BC:103:ILE:O	2.04	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
38:BD:108:PRO:CB	38:BD:143:HIS:CE1	2.82	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: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
41:BG:178:PHE:HB3	41:BG:180:PHE:CE1	2.38	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:74:VAL:HG11	24:AY:317:PHE:HE2	1.68	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
25:B0:43:THR:O	25:B0:43:THR:CG2	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:332:A:O2'	35:BA:333:G:O5'	2.23	0.57
35:BA:527:C:O5'	35:BA:2779:U:C5	2.57	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:943:U:OP2	47:BP:38:GLN:HB3	2.04	0.57
35:BA:994:C:OP2	52:BU:54:LYS:NZ	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H2'	35:BA:2703:C:O2	2.03	0.57
35:BA:2758:A:O2'	35:BA:2759:G:O4'	2.22	0.57
35:BA:2818:G:H4'	35:BA:2837:G:O4'	2.04	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: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
42:BH:107:VAL:HG21	42:BH:152:ARG:HG2	1.85	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
51:BT:51:ARG:O	51:BT:61:PHE:HA	2.04	0.57
52:BU:35:ALA:O	52:BU:38:THR:N	2.38	0.57
52:BU:112:ARG:NH1	52:BU:112:ARG:HG3	2.19	0.57
55:BX:55:ASN:HB2	55:BX:80:ILE:CD1	2.34	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
1:AA:954:G:H4'	13:AM:120:LYS:CD	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
3:AC:142:MET:HA	3:AC:145:GLY:O	2.03	0.57
11:AK:92:GLU:OE2	11:AK:95:ILE:HD12	2.05	0.57
11:AK:122:LYS:O	11:AK:126:ARG:HB2	2.04	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:56:A:H2'	35:BA:57:C:C6	2.38	0.57
35:BA:145:G:H2'	35:BA:146:G:H5''	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:571:A:H1'	35:BA:573:G:C8	2.39	0.57
35:BA:915:C:N4	35:BA:916:G:C6	2.72	0.57
35:BA:1335:U:OP1	55:BX:65:ARG:NH2	2.37	0.57
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.58	0.57
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:2051:A:H5''	35:BA:2578:G:O5'	2.04	0.57
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.86	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
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
1:AA:737:A:H1'	6:AF:73:ASN:OD1	2.04	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
2:AB:196:LEU:HD12	2:AB:197:VAL:CG2	2.33	0.57
5:AE:31:LEU:CD2	5:AE:43:LEU:HD11	2.34	0.57
5:AE:84:PHE:CD1	5:AE:133:TYR:HB3	2.40	0.57
15:AO:9:GLN:O	15:AO:13:GLN:HG2	2.03	0.57
15:AO:54:ARG:HG3	15:AO:58:MET:HE2	1.83	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
27:B2:54:LYS:HG2	35:BA:73:A:OP1	2.05	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: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:66:C:C4	35:BA:67:U:C5	2.93	0.57
35:BA:390:A:H5'	35:BA:412:A:O4'	2.04	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:981:A:C8	35:BA:982:C:C5	2.92	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:44:ASN:HD22	38:BD:47:GLY:C	2.07	0.57
38:BD:242:ARG:HG2	38:BD:246:PRO:HG3	1.85	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:36:LYS:HE2	41:BG:38:VAL:HG22	1.86	0.57
41:BG:151:ALA:HB3	41:BG:153:ARG:NH1	2.19	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:8:TYR:HB2	57:BZ:38:TYR:CE2	2.40	0.57
57:BZ:119:GLU:HG2	57:BZ:119:GLU:O	2.04	0.57
1:AA:47:C:C6	1:AA:365:U:H2'	2.39	0.57
1:AA:67:C:H3'	1:AA:67:C:C6	2.40	0.57
1:AA:398:C:C6	1:AA:398:C:C3'	2.86	0.57
1:AA:415:A:H2'	1:AA:416:G:H8	1.69	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
1:AA:1256:A:O4'	1:AA:1256:A:OP2	2.23	0.57
2:AB:157:ARG:HB3	2:AB:157:ARG:NH1	2.19	0.57
3:AC:96:GLY:O	3:AC:97:LYS:HG2	2.04	0.57
3:AC:121:ALA:HB2	3:AC:187:ALA:HB1	1.85	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
30:B5:39:MET:O	54:BW:38:TYR:HE2	1.88	0.57
33:B8:13:ARG:HH11	47:BP:61:ARG:CD	2.15	0.57
33:B8:17:THR:HG21	35:BA:650:C:O3'	2.04	0.57
35:BA:271(I):G:H2'	35:BA:271(J):C:H6	1.68	0.57
35:BA:603:A:O3'	47:BP:90:ARG:NH2	2.37	0.57
35:BA:845:G:O2'	35:BA:846:C:H5	1.87	0.57
35:BA:1309:G:O2'	35:BA:1310:G:H5'	2.04	0.57
35:BA:1666:G:H8	35:BA:1666:G:H5'	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:2745:C:H2'	35:BA:2746:U:C6	2.39	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:N	38:BD:242:ARG:CD	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:39:ILE:HG13	41:BG:156:ASP:O	2.04	0.57
41:BG:140:ILE:C	41:BG:140:ILE:CD1	2.73	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
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: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
1:AA:1152:A:H5'	10:AJ:70:ARG:HH21	1.70	0.57
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.70	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
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:10:VAL:CG1	24:AY:291:ALA:HB1	2.33	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:299:PHE:HE1	24:AY:387:PHE:CE1	2.23	0.57
30:B5:6:VAL:HG22	35:BA:2016:U:O2	2.04	0.57
34:B9:1:MET:HG3	34:B9:32:HIS:HA	1.85	0.57
35:BA:568:U:O4	35:BA:973:A:OP2	2.21	0.57
35:BA:783:A:C6	35:BA:785:G:C8	2.93	0.57
35:BA:2045:C:C2	35:BA:2624:G:N2	2.73	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: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
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: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
1:AA:1202:G:C1'	14:AN:29:ARG:HD3	2.35	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:147:ALA:HA	4:AD:182:LYS:HA	1.87	0.57
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
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	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: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
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
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: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
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
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:HH11	42:BH:59:ARG:CB	2.17	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
45:BN:103:VAL:O	45:BN:104:LYS:C	2.42	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:528:C:H41	12:AL:49:ASN:ND2	2.03	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
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
30:B5:25:LEU:CD1	54:BW:19:LEU:O	2.52	0.57
35:BA:74:A:O2'	35:BA:75:G:OP2	2.20	0.57
35:BA:219:G:C6	35:BA:220:G:C6	2.93	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:631:A:H4'	47:BP:65:ARG:HD3	1.85	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
35:BA:1814:G:O3'	38:BD:54:ARG:NH2	2.37	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
37:BC:21:THR:HA	37:BC:225:ASN:HB2	1.86	0.57
37:BC:175:VAL:HG13	37:BC:188:ASN:CB	2.34	0.57
37:BC:175:VAL:HG22	37:BC:189:ILE:HA	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:9:ASN:N	47:BP:10:PRO:HD2	2.14	0.57
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
54:BW:69:LEU:HD22	54:BW:107:LEU:HB2	1.87	0.57
1:AA:706:A:O4'	11:AK:29:ILE:HD11	2.05	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
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:181:PHE:CE1	8:AH:70:GLN:HB3	2.39	0.57
2:AB:223:ILE:HG21	2:AB:230:VAL:HG22	1.87	0.57
3:AC:52:LEU:HB2	3:AC:69:HIS:O	2.04	0.57
3:AC:124:ILE:HG12	3:AC:130:VAL:HG22	1.87	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
13:AM:16:ASP:HB2	13:AM:31:LYS:HG2	1.87	0.57
24:AY:97:GLU:HB3	24:AY:392:ASN:ND2	2.19	0.57
24:AY:103:LEU:HD12	24:AY:103:LEU:N	2.18	0.57
24:AY:103:LEU:HD23	24:AY:109:CYS:SG	2.45	0.57
35:BA:134:C:C2	35:BA:135:G:C8	2.93	0.57
35:BA:322:A:H5'	35:BA:340:A:C1'	2.35	0.57
35:BA:601:C:C5'	40:BF:108:LYS:HZ1	2.18	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
35:BA:1060:U:C4'	35:BA:1061:U:H5	2.17	0.57
35:BA:1661:G:H2'	35:BA:1662:C:C6	2.36	0.57
35:BA:1667:G:H22	35:BA:1991:U:H3'	1.69	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:2880:C:O3'	49:BR:90:ARG:NH1	2.38	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:65:PHE:HD2	48:BQ:105:GLU:O	1.88	0.57
54:BW:5:ALA:O	54:BW:6:ILE:HB	2.04	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
1:AA:79:G:H3'	1:AA:83:U:OP1	2.05	0.56
1:AA:730:G:O6	15:AO:51:HIS:HE1	1.88	0.56
1:AA:1389:C:O2'	1:AA:1390:U:H5'	2.04	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:O	16:AP:50:LYS:HE2	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:72:THR:HA	24:AY:89:THR:HA	1.87	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
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: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
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
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:16:ARG:HD3	47:BP:17:LYS:N	2.20	0.56
47:BP:121:LYS:O	47:BP:123:LEU:HD23	2.05	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: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
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.39	0.56
2:AB:201:ILE:O	2:AB:202:PRO:C	2.40	0.56
3:AC:70:VAL:O	3:AC:106:VAL:HG23	2.04	0.56
3:AC:183:ASP:O	3:AC:202:ILE:N	2.33	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:ND1	33:B8:7:HIS:O	2.38	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
35:BA:1092:C:OP2	35:BA:1093:G:N7	2.38	0.56
35:BA:1257:C:H4'	40:BF:83:PHE:CD1	2.39	0.56
35:BA:1322:A:OP1	54:BW:11:ARG:HG3	2.04	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:N3	35:BA:1508:A:H2'	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:15:A:H1'	36:BB:110:G:C5	2.40	0.56
38:BD:79:VAL:HG23	38:BD:114:GLY:N	2.20	0.56
38:BD:126:GLN:O	38:BD:193:VAL:HG21	2.04	0.56
39:BE:171:GLU:C	39:BE:173:VAL:H	2.08	0.56
40:BF:33:LEU:HD21	40:BF:112:MET:HG2	1.87	0.56
40:BF:118:ALA:HA	40:BF:123:LEU:HB3	1.85	0.56
42:BH:105:LEU:HD22	42:BH:105:LEU:N	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
1:AA:162:A:C5	1:AA:163:C:H1'	2.40	0.56
1:AA:197:A:C6	1:AA:221:C:H4'	2.38	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:404:U:C5'	4:AD:122:ARG:HD3	2.35	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
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: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:1068:G:N2	1:AA:1069:C:C2	2.73	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: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:1484:C:HO2'	35:BA:1961:C:H5'	1.70	0.56
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.23	0.56
2:AB:28:PHE:CD1	2:AB:28:PHE:O	2.58	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
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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:103:LEU:H	24:AY:103:LEU:CD1	2.17	0.56
24:AY:281:PRO:C	24:AY:282:ARG:HD2	2.24	0.56
24:AY:336:THR:O	24:AY:337:ALA:HB2	2.05	0.56
24:AY:403:LEU:N	24:AY:403:LEU:CD2	2.68	0.56
25:B0:26:TYR:N	25:B0:26:TYR:CD1	2.72	0.56
25:B0:51:VAL:HG21	25:B0:80:HIS:HA	1.86	0.56
28:B3:52:HIS:CE1	36:BB:83:G:H5''	2.39	0.56
30:B5:7:PRO:HA	35:BA:2615:U:C6	2.41	0.56
32:B7:9:ARG:HH11	32:B7:9:ARG:HG3	1.69	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:74:A:H4'	35:BA:75:G:O5'	2.05	0.56
35:BA:185:U:C2	35:BA:212:G:N2	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:219:G:H2'	35:BA:220:G:C8	2.41	0.56
35:BA:631:A:H2'	35:BA:632:A:C8	2.40	0.56
35:BA:674:G:N3	40:BF:74:ARG:NH1	2.54	0.56
35:BA:721:C:H2'	35:BA:721:C:O2	2.05	0.56
35:BA:786:C:C2	35:BA:787:U:C5	2.94	0.56
35:BA:942:G:C6	35:BA:943:U:C4	2.93	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:1313:U:H3'	35:BA:1313:U:O2	2.06	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:1569:A:O2'	38:BD:38:LYS:HG2	2.04	0.56
35:BA:1887:C:H2'	35:BA:1888:G:C4'	2.35	0.56
35:BA:2014:A:C4	35:BA:2015:A:N6	2.74	0.56
35:BA:2085:C:H2'	35:BA:2086:U:C6	2.41	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:2794:C:N4	35:BA:2801(A):A:N6	2.53	0.56
37:BC:49:ILE:CG2	37:BC:208:PHE:CE1	2.88	0.56
37:BC:76:ALA:HA	37:BC:114:VAL:HG23	1.86	0.56
38:BD:92:ILE:CB	38:BD:106:ILE:HA	2.34	0.56
38:BD:95:LEU:N	38:BD:95:LEU:HD13	2.20	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)
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.35	0.56
39:BE:55:ASN:O	39:BE:56:PRO:O	2.23	0.56
40:BF:165:ARG:CB	40:BF:168:ARG:HH21	2.18	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
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
49:BR:102:GLU:OE1	49:BR:105:ARG:NH2	2.37	0.56
50:BS:13:ARG:CG	50:BS:14:VAL:N	2.50	0.56
51:BT:29:ARG:NE	51:BT:86:ILE:HG23	2.12	0.56
52:BU:49:HIS:O	52:BU:53:ARG:N	2.33	0.56
52:BU:66:ASN:HD21	52:BU:70:ARG:HG3	1.71	0.56
52:BU:104:GLN:C	52:BU:106:PHE:N	2.59	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: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:279:A:H2'	17:AQ:95:TYR:HE1	1.69	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
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
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:59:ARG:CZ	4:AD:59:ARG:CA	2.72	0.56
4:AD:173:TRP:HB3	4:AD:187:ARG:HH22	1.71	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
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:O	24:AY:344:ASP:CG	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:996:A:H4'	52:BU:92:ARG:CZ	2.35	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

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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:2352:A:N7	35:BA:2366:A:C6	2.73	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
48:BQ:141:GLN:HE22	57:BZ:72:ARG:C	2.07	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:65:LYS:NZ	51:BT:66:VAL:H	2.03	0.56
51:BT:106:SER:O	51:BT:107:ASP:HB3	2.05	0.56
57:BZ:8:TYR:HD2	57:BZ:38:TYR:OH	1.76	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
1:AA:712:A:H5'	38:BD:139:GLY:HA3	1.87	0.56
1:AA:1286:A:O2'	1:AA:1287:A:C5'	2.53	0.56
2:AB:223:ILE:O	2:AB:226:ARG:CB	2.49	0.56
3:AC:139:GLN:OE1	3:AC:139:GLN:HA	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:23:ASN:HA	29:B4:47:GLN:HB3	1.87	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
28:B3:10:LYS:NZ	35:BA:987:G:OP1	2.34	0.56
29:B4:9:LEU:HA	29:B4:26:SER:O	2.04	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:145:G:C2'	35:BA:146:G:H5''	2.36	0.56
35:BA:584:C:O2'	35:BA:585:G:H5'	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:1223:G:C2	35:BA:1227:G:C5	2.94	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
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:H2'	35:BA:2629:A:N3	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
37:BC:72:VAL:HG22	37:BC:74:VAL:CG2	2.34	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:C	3:AC:23:TYR:CD1	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:35:GLY:CA	5:AE:40:ARG:O	2.54	0.56
5:AE:138:ALA:O	5:AE:141:GLN:N	2.36	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:O	21:AU:20:LYS:HG2	2.04	0.56
24:AY:138:LEU:CD1	24:AY:272:LEU:HB3	2.31	0.56
24:AY:208:LYS:O	24:AY:209:GLY:C	2.43	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:44:G:H21	35:BA:435:C:H41	1.52	0.56
35:BA:71:A:H3'	35:BA:71:A:OP2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:803:U:HO2'	35:BA:804:A:H5'	1.69	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
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:1667:G:H5'	46:BO:5:GLN:O	2.06	0.56
35:BA:1911:U:H6	35:BA:1911:U:O5'	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
37:BC:6:ARG:CZ	37:BC:7:TYR:HA	2.35	0.56
37:BC:28:LEU:O	37:BC:28:LEU:HG	2.06	0.56
37:BC:53:ARG:NH1	37:BC:55:ASP:HB2	2.13	0.56
37:BC:75:LEU:HB2	37:BC:93:TYR:O	2.05	0.56
37:BC:141:LYS:NZ	37:BC:164:ARG:HH21	2.00	0.56
38:BD:184:LYS:HG3	38:BD:269:PHE:O	2.06	0.56
40:BF:8:GLN:CG	40:BF:9:ILE:H	2.18	0.56
40:BF:57:VAL:HG12	40:BF:59:TYR:N	2.15	0.56
40:BF:110:LEU:C	40:BF:110:LEU:HD13	2.25	0.56
45:BN:24:GLY:O	45:BN:28:THR:HG22	2.05	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:O	50:BS:57:LYS:HD2	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: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:H8	1:AA:929:G:O5'	1.89	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
2:AB:19:HIS:HD2	2:AB:20:GLU:OE1	1.89	0.56
2:AB:153:ARG:CG	2:AB:154:LEU:H	2.19	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
19:AS:23:ASN:CB	29:B4:47:GLN:HG2	2.33	0.56
20:AT:91:LEU:C	20:AT:93:GLU:N	2.55	0.56
22:AV:34:C:O5'	22:AV:34:C:H6	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
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
33:B8:12:LYS:HG2	47:BP:68:GLN:HE21	1.70	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
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
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:27:LYS:CG	42:BH:32:GLU:HG2	2.33	0.56
42:BH:103:LEU:O	42:BH:105:LEU:HD13	2.04	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
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:HD23	51:BT:78:LEU:O	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:H8	1:AA:300:A:O5'	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
25:B0:27:GLU:OE2	35:BA:856:C:H1'	2.05	0.56
31:B6:6:ARG:NH1	31:B6:7:ILE:HG13	2.20	0.56
32:B7:2:LYS:HE2	35:BA:687:C:H5''	1.88	0.56
35:BA:564:C:H2'	35:BA:565:C:H6	1.70	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:2784:C:O2'	39:BE:37:ARG:NH1	2.38	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
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:57:VAL:HG12	40:BF:58:ALA:N	2.20	0.56
40:BF:156:LEU:O	40:BF:157:VAL:CG1	2.54	0.56
45:BN:6:PRO:O	45:BN:9:VAL:HG23	2.06	0.56
45:BN:99:LEU:HD13	45:BN:103:VAL:HG23	1.86	0.56
45:BN:134:ARG:NH2	45:BN:136:GLU:HB2	2.21	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:771:G:H2'	1:AA:772:U:H6	1.70	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
2:AB:142:LEU:HA	2:AB:145:LEU:HB3	1.87	0.56
8:AH:13:ILE:N	8:AH:13:ILE:HD13	2.20	0.56
9:AI:16:ARG:HG3	9:AI:16:ARG:HH11	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:104:ARG:NH1	9:AI:104:ARG:HG3	2.18	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:5:LYS:HA	15:AO:8:LYS:HG3	1.87	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
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:138:LEU:CD2	24:AY:275:TRP:HE3	2.19	0.56
24:AY:254:VAL:HG12	24:AY:256:PHE:CE1	2.41	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:242:G:H1'	35:BA:243:U:C5	2.39	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
35:BA:1050:A:H1'	35:BA:2751:G:C2	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: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
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
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:H	57:BZ:57:ILE:CD1	2.19	0.56
1:AA:184:G:O4'	1:AA:224:C:H5''	2.05	0.56
1:AA:220:G:C2'	1:AA:221:C:H5'	2.35	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:O5'	1:AA:929:G:C8	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:B1:43:TYR:HB2	35:BA:2230:G:O3'	2.06	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: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
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
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:6:LYS:O	57:BZ:39:VAL:HG12	2.06	0.56
57:BZ:128:VAL:CG1	57:BZ:133:ILE:HD13	2.36	0.56
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
1:AA:1074:G:H2'	1:AA:1075:C:H6	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.60	0.55
5:AE:103:GLY:HA3	5:AE:122:GLU:OE1	2.06	0.55
7:AG:15:ASP:OD1	7:AG:16:LEU:N	2.39	0.55
7:AG:140:ASP:O	7:AG:143:ARG:HB2	2.06	0.55
12:AL:88:GLY:O	12:AL:99:HIS:ND1	2.37	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: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
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
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
38:BD:131:LEU:CB	38:BD:136:ILE:HG13	2.27	0.55
39:BE:34:VAL:HG13	39:BE:34:VAL:O	2.06	0.55
39:BE:37:ARG:O	39:BE:45:THR:HA	2.06	0.55
40:BF:8:GLN:CG	40:BF:9:ILE:N	2.66	0.55
40:BF:195:ASP:OD2	40:BF:197:ASP:HB2	2.05	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:24:LEU:HD13	50:BS:41:ASP:OD1	2.05	0.55
50:BS:102:ALA:C	50:BS:103:GLU:OE1	2.45	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: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
1:AA:1392:G:N2	1:AA:1502:A:C8	2.74	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: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
7:AG:129:GLU:OE1	7:AG:131:LYS:HE2	2.06	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:78:PRO:CB	24:AY:83:LEU:HA	2.35	0.55
24:AY:170:THR:HG22	24:AY:184:HIS:CA	2.16	0.55
27:B2:2:LYS:HZ3	27:B2:5:GLU:CD	2.10	0.55
35:BA:723:G:H2'	35:BA:724:U:H6	1.64	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:1244:G:H4'	47:BP:11:GLY:CA	2.35	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
36:BB:54:G:N2	36:BB:55:U:N1	2.53	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
37:BC:186:ALA:HB1	37:BC:190:ARG:NH1	2.20	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
41:BG:123:ASN:HB2	41:BG:126:ASP:OD2	2.06	0.55
45:BN:116:LEU:O	45:BN:119:ARG:N	2.38	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:50:ILE:HA	51:BT:99:LEU:HD11	1.88	0.55
51:BT:62:THR:HG22	51:BT:75:ILE:CB	2.36	0.55
53:BV:2:PHE:HB3	53:BV:41:GLY:C	2.27	0.55
1:AA:754:C:C5'	15:AO:72:ARG:HH12	2.19	0.55
1:AA:834:C:O2'	1:AA:835:U:H5'	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.27	0.55
2:AB:68:ILE:HB	2:AB:70:PHE:HE1	1.71	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
4:AD:96:LEU:H	4:AD:96:LEU:CD1	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: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
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:1889:A:O2'	35:BA:2087:G:H5'	2.05	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: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
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:90:ALA:CB	38:BD:106:ILE:HG23	2.36	0.55
38:BD:208:LYS:HG3	38:BD:210:GLY:CA	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:30:U:H1'	1:AA:31:G:OP1	2.06	0.55
1:AA:657:G:H4'	15:AO:28:GLN:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:797:C:H2'	1:AA:797:C:O2	2.05	0.55
1:AA:882:C:H2'	1:AA:883:C:H6	1.70	0.55
1:AA:948:C:P	13:AM:108:ARG:H	2.29	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
1:AA:1418:A:C2	1:AA:1483:A:C2	2.94	0.55
1:AA:1436:U:C5	1:AA:1437:C:C5	2.94	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
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: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
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:2839:G:C4'	49:BR:49:ASP:OD2	2.53	0.55
38:BD:44:ASN:HD22	38:BD:48:ARG:N	2.04	0.55
38:BD:165:ILE:HA	38:BD:175:LEU:HD22	1.88	0.55
40:BF:6:VAL:CG1	40:BF:7:TYR:N	2.52	0.55
40:BF:18:ARG:CZ	40:BF:199:TRP:CZ3	2.88	0.55
40:BF:154:VAL:HG12	40:BF:155:LEU:H	1.71	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
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:22:G:H5''	1:AA:885:G:OP2	2.07	0.55
1:AA:127:G:N2	1:AA:235:C:C2	2.75	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
1:AA:1101:A:H4'	1:AA:1102:A:O5'	2.06	0.55
1:AA:1432:G:HO2'	1:AA:1433:A:H8	1.52	0.55
2:AB:142:LEU:O	2:AB:146:GLN:N	2.39	0.55
3:AC:7:PRO:HG2	3:AC:8:ILE:H	1.71	0.55
3:AC:38:ARG:O	3:AC:39:ILE:C	2.43	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:72:THR:OG1	24:AY:302:LYS:NZ	2.35	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
26:B1:18:ILE:HG21	26:B1:20:ARG:CZ	2.36	0.55
27:B2:8:LYS:O	27:B2:12:GLU:HB2	2.05	0.55
27:B2:27:GLU:O	27:B2:30:ARG:N	2.38	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:35:G:C4	35:BA:454:A:C2	2.94	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:341:G:O2'	35:BA:342:G:H5'	2.06	0.55
35:BA:535:C:O2'	35:BA:536:A:H5'	2.07	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:2706:G:H5''	35:BA:2851:A:H5''	1.89	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:5:VAL:CG1	41:BG:6:ALA:H	2.09	0.55
41:BG:28:VAL:O	41:BG:29:TRP:CG	2.60	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:482:A:H2'	1:AA:483:C:O4'	2.07	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
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:4:TYR:O	4:AD:5:ILE:CB	2.55	0.55
4:AD:134:ASP:OD1	4:AD:134:ASP:N	2.40	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
32:B7:8:ASN:HA	35:BA:1309:G:H5'	1.89	0.55
35:BA:83:G:H22	35:BA:102:G:H2'	1.69	0.55
35:BA:116:C:OP1	35:BA:128:C:N4	2.40	0.55
35:BA:126:A:C6	35:BA:127:A:C2	2.94	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:H6	35:BA:2586:C:O5'	1.90	0.55
35:BA:2646:C:O2	35:BA:2646:C:H2'	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:19:GLY:O	48:BQ:98:LYS:HD3	2.07	0.55
48:BQ:50:ALA:O	48:BQ:52:VAL:N	2.40	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:HG2	32:B7:35:ARG:HH11	1.72	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
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:1754:C:H4'	51:BT:101:PHE:CD1	2.42	0.55
35:BA:2282:G:H1	35:BA:2427:C:H42	1.54	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:2839:G:O2'	35:BA:2840:C:H5'	2.07	0.55
36:BB:75:G:HO2'	57:BZ:85:HIS:CE1	2.25	0.55
36:BB:89:G:H2'	36:BB:90:A:C8	2.42	0.55
37:BC:30:LYS:HA	37:BC:30:LYS:HZ1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.37	0.55
49:BR:9:LYS:O	49:BR:10:LEU:HD23	2.06	0.55
49:BR:17:ARG:HB2	49:BR:17:ARG:CZ	2.37	0.55
50:BS:56:LEU:O	50:BS:57:LYS:C	2.45	0.55
50:BS:97:ARG:CZ	50:BS:97:ARG:O	2.55	0.55
1:AA:105:G:H2'	1:AA:106:C:H6	1.65	0.55
1:AA:131:C:O2	1:AA:131:C:H2'	2.05	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
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:1418:A:H2	1:AA:1483:A:C2	2.25	0.55
1:AA:1423:G:OP1	46:BO:49:ARG:NH2	2.40	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:BO:51:VAL:HG23	25:BO: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:453:C:O4'	35:BA:457:A:C2	2.60	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
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:43:VAL:O	46:BO:54:GLU:HA	2.07	0.55
46:BO:105:GLU:HG3	46:BO:108:GLU:OE2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:53:ARG:NH1	51:BT:53:ARG:CB	2.70	0.55
52:BU:27:LEU:HA	52:BU:30:LYS:CB	2.36	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
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.41	0.55
1:AA:1503:A:H2'	23:AX:12:A:H62	1.72	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:HH11	17:AQ:91:ARG:CB	2.20	0.55
19:AS:51:VAL:HG23	19:AS:60:VAL:HG11	1.89	0.55
24:AY:99:THR:HA	24:AY:102:THR:CB	2.36	0.55
24:AY:138:LEU:CD1	24:AY:268:MET:CE	2.82	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:327:LYS:NZ	24:AY:344:ASP:CB	2.69	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:131:G:H2'	35:BA:132:G:C8	2.42	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:807:U:O2'	35:BA:2060:A:N1	2.40	0.55
35:BA:818:G:N2	35:BA:1188:U:OP2	2.36	0.55
35:BA:931:G:C2	35:BA:933:A:C5	2.94	0.55
35:BA:1160:G:O2'	35:BA:1161:C:H5'	2.07	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: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
37:BC:131:LEU:HD22	37:BC:136:LEU:CD1	2.37	0.55
37:BC:134:ARG:HD2	37:BC:134:ARG:H	1.72	0.55
38:BD:3:VAL:HG22	38:BD:200:ASP:OD1	2.07	0.55
38:BD:70:TRP:CD1	38:BD:150:LYS:HE3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:158:ALA:O	38:BD:196:VAL:CG1	2.47	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:19:LEU:O	41:BG:22:ARG:N	2.40	0.55
41:BG:137:GLU:O	41:BG:138:GLN:HB3	2.07	0.55
42:BH:43:VAL:CG1	42:BH:52:VAL:CG2	2.83	0.55
47:BP:100:LEU:H	47:BP:100:LEU:CD2	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:HD1	57:BZ:44:PHE:C	2.10	0.55
1:AA:443:C:O5'	1:AA:443:C:H6	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
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.37	0.55
1:AA:1423:G:H5''	46:BO:49:ARG:CZ	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:257:A:H2'	35:BA:258:G:H5'	1.89	0.55
35:BA:476:G:N2	35:BA:479:A:C8	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:762:U:H5'	35:BA:763:G:N3	2.22	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
35:BA:1815:A:P	38:BD:54:ARG:HH22	2.30	0.55
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: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
39:BE:38:THR:C	39:BE:40:GLU:H	2.09	0.55
39:BE:116:VAL:HG22	39:BE:122:PHE:CB	2.36	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
46:BO:92:GLU:CG	46:BO:93:PRO:HD2	2.31	0.55
47:BP:62:LEU:CD2	47:BP:62:LEU:N	2.70	0.55
49:BR:76:VAL:CG2	49:BR:80:PHE:CE2	2.86	0.55
49:BR:103:ARG:O	49:BR:111:LEU:HD13	2.07	0.55
50:BS:24:LEU:HB3	50:BS:85:VAL:HG12	1.88	0.55
50:BS:27:SER:O	50:BS:28:VAL:HG22	2.07	0.55
52:BU:93:LYS:HD2	52:BU:93:LYS:H	1.72	0.55
56:BY:28:LYS:HB3	56:BY:37:VAL:HB	1.88	0.55
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
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
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:74:VAL:CG1	24:AY:317:PHE:CE2	2.91	0.54
24:AY:142:ASN:O	24:AY:143:LYS:HB2	2.07	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:151:C:H2'	35:BA:152:G:C8	2.42	0.54
35:BA:271(I):G:H2'	35:BA:271(J):C:C6	2.41	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:570:G:O6	35:BA:2499:C:OP1	2.26	0.54
35:BA:970:C:H2'	35:BA:971:C:C6	2.41	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: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:2718:G:H5'	51:BT:100:TYR:CE2	2.40	0.54
35:BA:2882:A:OP1	49:BR:96:ARG:NE	2.35	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
46:BO:107:ARG:HH11	51:BT:36:GLU:HG3	1.72	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
52:BU:80:ILE:O	52:BU:80:ILE:HG22	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: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
1:AA:1040:U:O2'	1:AA:1041:A:H5'	2.07	0.54
1:AA:1124:G:O5'	10:AJ:35:SER:HB2	2.06	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
2:AB:118:LEU:HD11	2:AB:141:GLU:OE2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:89:ILE:CG1	5:AE:90:VAL:N	2.70	0.54
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
10:AJ:64:GLU:OE1	14:AN:59:ALA:HA	2.07	0.54
10:AJ:78:ASN:ND2	10:AJ:80:LYS:HB3	2.22	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:712:G:O2'	35:BA:713:G:H5'	2.06	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:1462:C:C5'	35:BA:2703:C:O4'	2.55	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: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
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:NH1	48:BQ:10:ARG:CB	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:959:A:H2'	1:AA:960:U:C4'	2.37	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
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
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:58:GLU:N	3:AC:65:ALA:CB	2.67	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
4:AD:6:GLY:N	4:AD:115:ARG:HH22	2.05	0.54
5:AE:10:MET:HG2	5:AE:10:MET:O	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:HD3	12:AL:20:LYS:N	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:O	17:AQ:60:ILE:CG1	2.45	0.54
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.89	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:43:A:O2'	35:BA:44:G:H5'	2.07	0.54
35:BA:77:C:H2'	35:BA:78:A:C8	2.42	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:768:G:O2'	35:BA:1379:A:N6	2.40	0.54
35:BA:1061:U:H5'	35:BA:1070:A:H1'	1.89	0.54
35:BA:1667:G:C2	35:BA:1991:U:C5	2.95	0.54
35:BA:1791:A:N1	35:BA:1829:A:C4'	2.71	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
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:57:ALA:H	45:BN:124:ALA:HA	1.72	0.54
45:BN:118:LYS:C	45:BN:120:LEU:H	2.11	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:14:PRO:CG	54:BW:78:GLU:HG3	2.18	0.54
54:BW:21:VAL:O	54:BW:23:LEU:N	2.40	0.54
55:BX:35:THR:C	55:BX:37:THR:H	2.11	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
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
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:86:LEU:HD12	24:AY:88:ASP:H	1.71	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
35:BA:396:G:O5'	35:BA:396:G:C8	2.60	0.54
35:BA:910:A:H5'	35:BA:911:A:OP2	2.08	0.54
35:BA:1107:G:OP1	43:BJ:59:UNK:N	2.39	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:2007:C:O4'	35:BA:2824:C:H4'	2.06	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:2718:G:P	51:BT:100:TYR:HD2	2.30	0.54
35:BA:2847:U:C5	35:BA:2848:G:C5	2.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BP:146:VAL:O	47:BP:147:LEU:C	2.45	0.54
48:BQ:58:PHE:CZ	48:BQ:64:ILE:HD11	2.43	0.54
48:BQ:101:ARG:NH1	48:BQ:102:VAL:O	2.40	0.54
50:BS:25:ARG:HH11	50:BS:25:ARG:HG2	1.73	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:18:C:H1'	1:AA:1079:G:N2	2.23	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: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:920:U:H1'	1:AA:1080:A:N3	2.22	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
1:AA:1057:G:H2'	1:AA:1058:G:H5'	1.89	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:1266:G:N2	1:AA:1268:A:OP2	2.40	0.54
2:AB:50:GLU:O	2:AB:54:THR:N	2.39	0.54
2:AB:219:VAL:HA	2:AB:222:ILE:HG12	1.89	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:204:A:OP1	35:BA:204:A:C8	2.61	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:70:TRP:NE1	38:BD:150:LYS:CE	2.70	0.54
38:BD:92:ILE:HB	38:BD:105:ILE:O	2.08	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:38:G:H5'	1:AA:547:A:N6	2.23	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:600:C:OP1	8:AH:97:VAL:HG12	2.07	0.54
1:AA:673:G:H4'	6:AF:87:ARG:HH21	1.73	0.54
1:AA:949:A:C6	1:AA:950:U:C4	2.95	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:1372:U:OP1	9:AI:71:SER:HB3	2.07	0.54
4:AD:8:VAL:O	4:AD:10:ARG:N	2.40	0.54
4:AD:18:LYS:HG3	4:AD:33:MET:CB	2.38	0.54
7:AG:49:ILE:O	7:AG:52:GLU:N	2.37	0.54
10:AJ:7:LYS:HA	10:AJ:70:ARG:O	2.07	0.54
10:AJ:12:ASP:C	10:AJ:14:LYS:H	2.11	0.54
11:AK:37:GLY:C	11:AK:38:ASN:HD22	2.09	0.54
15:AO:12:ILE:HG23	15:AO:27:VAL:HG13	1.87	0.54
15:AO:12:ILE:O	15:AO:16:ALA:N	2.40	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)
25:B0:27:GLU:OE1	35:BA:856:C:H1'	2.07	0.54
33:B8:8:LYS:HD3	33:B8:11:LYS:CD	2.34	0.54
35:BA:13:A:C2	35:BA:526:A:C8	2.96	0.54
35:BA:27:G:H22	35:BA:512:G:H2'	1.71	0.54
35:BA:94(A):G:H2'	35:BA:95:G:C4'	2.38	0.54
35:BA:203:C:C3'	35:BA:204:A:H5''	2.38	0.54
35:BA:491:G:N2	35:BA:492:A:H1'	2.23	0.54
35:BA:958:U:H5''	48:BQ:14:ARG:HH11	1.73	0.54
35:BA:1022:G:C5	35:BA:1140:C:C4	2.95	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:1638:C:H5''	35:BA:2710:C:O2'	2.08	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:2075:U:H2'	35:BA:2238:G:N2	2.23	0.54
35:BA:2124:G:H3'	35:BA:2125:G:H8	1.73	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
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:32:LEU:C	40:BF:32:LEU:HD23	2.28	0.54
40:BF:154:VAL:HG22	40:BF:191:ARG:CB	2.32	0.54
47:BP:58:THR:C	47:BP:61:ARG:HE	2.09	0.54
47:BP:139:LYS:HG2	47:BP:139:LYS:O	2.08	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:HG2	56:BY:47:LYS:N	2.22	0.54
56:BY:46:LYS:CA	56:BY:62:GLU:HG2	2.37	0.54
57:BZ:162:GLU:C	57:BZ:163:LEU:HD23	2.27	0.54
1:AA:123:C:H5''	1:AA:311:C:C2'	2.37	0.54
1:AA:132:C:O2'	1:AA:133:U:H5'	2.07	0.54
1:AA:404:U:H5'	4:AD:122:ARG:HE	1.72	0.54
1:AA:906:G:H8	1:AA:906:G:O5'	1.90	0.54
1:AA:1501:C:N3	1:AA:1504:G:C6	2.76	0.54
1:AA:1502:A:N1	1:AA:1504:G:C2	2.75	0.54
2:AB:57:PHE:O	2:AB:60:ASP:N	2.39	0.54
2:AB:87:ARG:NH1	2:AB:219:VAL:HB	2.22	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:73:ASP:OD1	8:AH:75:ARG:NE	2.41	0.54
8:AH:109:ILE:HG13	8:AH:110:ALA:N	2.21	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:HA	24:AY:106:VAL:HG21	1.85	0.54
24:AY:16:PHE:CA	24:AY:106:VAL:HG23	2.34	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:49:A:H5''	35:BA:51:G:O4'	2.08	0.54
35:BA:182:A:H2'	35:BA:183:C:H6	1.71	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:673:C:O2'	35:BA:674:G:H5'	2.08	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:2010:G:H4'	54:BW:42:ARG:HB2	1.88	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
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:O	41:BG:106:LEU:HD12	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
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: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
1:AA:1337:G:H5''	1:AA:1338:G:OP1	2.07	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:HH11	6:AF:77:ARG:HG2	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:16:PHE:CE2	24:AY:86:LEU:HB2	2.43	0.54
24:AY:76:GLN:OE1	24:AY:349:MET:HA	2.07	0.54
24:AY:78:PRO:HG3	24:AY:350:ALA:HB2	1.88	0.54
24:AY:108:CYS:CA	24:AY:136:PRO:HG2	2.37	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:305:ALA:HA	24:AY:422:GLU:CG	2.38	0.54
26:B1:62:VAL:HG21	26:B1:66:HIS:O	2.07	0.54
35:BA:57:C:C2'	35:BA:58:G:H5'	2.38	0.54
35:BA:135:G:O2'	35:BA:136:G:H5'	2.08	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:O5'	35:BA:985:C:H6	1.91	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:1310:G:C4'	35:BA:1611:C:H5''	2.37	0.54
35:BA:1411:C:H2'	35:BA:1412:A:H8	1.73	0.54
35:BA:1600:C:O5'	35:BA:1600:C:C6	2.61	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:2018:G:H21	52:BU:34:LYS:NZ	2.05	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
36:BB:116:G:N3	36:BB:116:G:H2'	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:62:ARG:HG2	40:BF:62:ARG:HH11	1.72	0.54
40:BF:159:GLY:HA2	40:BF:178:PRO:HD3	1.88	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
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: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:730:G:O6	15:AO:51:HIS:CE1	2.61	0.54
1:AA:756:C:H2'	1:AA:757:U:O4'	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
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
16:AP:39:TYR:O	16:AP:41:PRO:HD3	2.08	0.54
24:AY:74:VAL:CG1	24:AY:317:PHE:HE2	2.21	0.54
24:AY:74:VAL:HA	24:AY:87:LEU:HA	1.89	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: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
25:B0:14:ARG:HB2	35:BA:2279:G:O6	2.08	0.54
31:B6:38:LYS:HD2	35:BA:2344:U:OP1	2.08	0.54
35:BA:55:G:H2'	35:BA:56:A:C8	2.42	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:1799:G:OP1	38:BD:260:ARG:HB2	2.07	0.54
35:BA:2092:U:H4'	35:BA:2093:G:C5'	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2839:G:H4'	49:BR:49:ASP:CB	2.37	0.54
37:BC:76:ALA:CB	37:BC:153:ILE:HD11	2.35	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:68:THR:HA	42:BH:71:LEU:CB	2.32	0.54
42:BH:129:THR:O	42:BH:131:VAL:HG22	2.08	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
46:BO:108:GLU:HG2	46:BO:108:GLU:O	2.07	0.54
48:BQ:59:ARG:O	48:BQ:59:ARG:HD2	2.08	0.54
49:BR:17:ARG:HH11	49:BR:17:ARG:HB3	1.72	0.54
51:BT:92:GLY:O	51:BT:94:ALA:N	2.40	0.54
51:BT:132:LYS:O	51:BT:134:GLU:N	2.36	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:83:LYS:NZ	54:BW:97:LYS:HD3	2.23	0.54
54:BW:88:ARG:CG	54:BW:88:ARG:NH1	2.67	0.54
56:BY:14:LEU:N	56:BY:73:ARG:O	2.41	0.54
57:BZ:141:VAL:HG12	57:BZ:141:VAL:O	2.07	0.54
1:AA:55:A:C4	24:AY:311:HIS:CD2	2.96	0.54
1:AA:64:G:H4'	1:AA:65:U:C5'	2.37	0.54
1:AA:293:G:H5'	1:AA:610:G:N2	2.23	0.54
1:AA:669:U:H2'	1:AA:670:G:C8	2.43	0.54
1:AA:741:G:C5'	15:AO:39:LEU:HD21	2.37	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
1:AA:1236:A:OP1	21:AU:3:LYS:HG3	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
2:AB:162:ILE:CG2	2:AB:184:VAL:HA	2.38	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
3:AC:148:GLY:O	3:AC:203:PHE:HB3	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
4:AD:164:ALA:O	4:AD:168:ARG:HD3	2.08	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
15:AO:49:ASP:OD1	15:AO:52:SER:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
33:B8:12:LYS:O	47:BP:65:ARG:HB2	2.07	0.54
35:BA:352:G:H2'	35:BA:352:G:N3	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
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:2578:G:C6	39:BE:140:SER:HB2	2.43	0.54
37:BC:49:ILE:HG21	37:BC:208:PHE:HE1	1.73	0.54
38:BD:9:TYR:CD1	38:BD:9:TYR:N	2.72	0.54
38:BD:247:ALA:HB2	38:BD:253:GLN:HA	1.86	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
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:61:G:H2'	1:AA:62:U:C6	2.43	0.53
1:AA:130:A:H4'	1:AA:189(G):G:C2	2.42	0.53
1:AA:880:C:H5	12:AL:9:GLN:NE2	2.06	0.53
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.08	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
17:AQ:67:LYS:HG2	17:AQ:68:ARG:CG	2.37	0.53
18:AR:46:GLU:OE1	18:AR:46:GLU:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:27:U:OP1	22:AV:27:U:O4'	2.26	0.53
24:AY:170:THR:OG1	24:AY:182:VAL:HG11	2.08	0.53
24:AY:210:LEU:N	24:AY:210:LEU:CD2	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:54:G:H8	35:BA:54:G:OP2	1.90	0.53
35:BA:245:G:O3'	47:BP:71:VAL:HG23	2.08	0.53
35:BA:382:G:H2'	35:BA:383:U:H5'	1.87	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:904:C:O2'	57:BZ:169:GLU:OE1	2.23	0.53
35:BA:940:G:H2'	35:BA:941:A:C4'	2.37	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: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
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: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
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:HB2	48:BQ:18:LYS:HZ3	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:CZ	50:BS:97:ARG:C	2.76	0.53
51:BT:65:LYS:NZ	51:BT:65:LYS:HA	2.22	0.53
51:BT:133:GLU:HG2	51:BT:133:GLU:O	2.08	0.53
52:BU:66:ASN:C	52:BU:66:ASN:HD22	2.08	0.53
52:BU:97:ASP:O	52:BU:100:VAL:CB	2.55	0.53
53:BV:18:LEU:CD2	53:BV:19:LYS:H	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BY:3:VAL:HG12	56:BY:3:VAL:O	2.09	0.53
1:AA:135:C:O2	16:AP:1:MET:HB3	2.07	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
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
4:AD:52:SER:H	4:AD:55:ALA:HB3	1.73	0.53
4:AD:155:LEU:O	4:AD:159:ARG:HG2	2.09	0.53
6:AF:14:LEU:HD12	6:AF:18:GLN:HB2	1.89	0.53
8:AH:30:ARG:HB3	8:AH:30:ARG:CZ	2.37	0.53
8:AH:30:ARG:O	8:AH:33:GLU:HB2	2.09	0.53
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.70	0.53
14:AN:4:LYS:HB2	14:AN:4:LYS:HZ3	1.72	0.53
15:AO:12:ILE:HG13	15:AO:31:LEU:CD1	2.37	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
30:B5:4:HIS:O	35:BA:2056:G:N2	2.41	0.53
35:BA:141:A:C6	35:BA:142:A:N6	2.76	0.53
35:BA:632:A:H2'	35:BA:633:A:H8	1.73	0.53
35:BA:1248:G:N1	52:BU:3:ARG:HD2	2.23	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
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:O5'	35:BA:2489:G:C8	2.53	0.53
37:BC:96:GLY:O	37:BC:97:GLU:HG2	2.08	0.53
37:BC:222:VAL:O	37:BC:224:ILE:N	2.41	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
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
39:BE:34:VAL:HG11	39:BE:78:LEU:HD21	1.87	0.53
39:BE:120:TRP:NE1	39:BE:156:MET:O	2.41	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:280:C:N4	17:AQ:91:ARG:HE	2.07	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
1:AA:1368:G:OP1	9:AI:114:TYR:HB3	2.07	0.53
1:AA:1488:G:O2'	1:AA:1489:G:H5'	2.08	0.53
1:AA:1493:A:N3	1:AA:1493:A:C3'	2.70	0.53
1:AA:1494:G:C4	1:AA:1495:U:C5	2.97	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
2:AB:131:PRO:O	2:AB:135:GLN:HG3	2.07	0.53
8:AH:2:LEU:HD11	8:AH:8:ASP:OD2	2.07	0.53
9:AI:22:GLY:HA3	9:AI:60:ASP:OD2	2.08	0.53
24:AY:170:THR:CB	24:AY:182:VAL:CG1	2.86	0.53
24:AY:171:TRP:HB3	24:AY:172:PRO:CD	2.38	0.53
33:B8:2:PRO:O	33:B8:3:LYS:C	2.46	0.53
34:B9:16:VAL:O	34:B9:16:VAL:HG12	2.07	0.53
35:BA:28:A:H1'	35:BA:513:A:N1	2.24	0.53
35:BA:195:A:N7	35:BA:197:A:OP1	2.42	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
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: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
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:H	40:BF:162:LEU:CD1	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: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:437:U:H5''	4:AD:155:LEU:HD21	1.90	0.53
1:AA:796:C:N3	1:AA:797:C:C5	2.76	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
2:AB:222:ILE:HD13	2:AB:222:ILE:N	2.24	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
9:AI:114:TYR:HE2	10:AJ:60:ARG:N	2.07	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
16:AP:69:THR:HA	16:AP:72:ARG:CB	2.37	0.53
24:AY:79:TYR:CG	24:AY:80:HIS:N	2.76	0.53
24:AY:269:LEU:O	24:AY:273:VAL:CG2	2.57	0.53
25:B0:36:ILE:HD11	35:BA:2355:C:C1'	2.39	0.53
25:B0:45:PHE:HD1	25:B0:77:ARG:O	1.92	0.53
30:B5:19:ARG:HG3	35:BA:2046:G:H5'	1.89	0.53
33:B8:5:LYS:HG2	35:BA:242:G:C8	2.43	0.53
35:BA:15:G:H2'	35:BA:16:G:C8	2.44	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
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
35:BA:2251:G:C8	35:BA:2450:A:H4'	2.44	0.53
35:BA:2314:C:OP1	41:BG:38:VAL:HG11	2.07	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
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

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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:28:VAL:CG1	51:BT:46:GLU:HA	2.39	0.53
51:BT:108:ARG:HB3	51:BT:111:ARG:CZ	2.36	0.53
56:BY:31:LEU:HB2	56:BY:32:PRO:HA	1.90	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
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
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:141:MET:O	24:AY:257:GLY:O	2.25	0.53
24:AY:142:ASN:OD1	58:AY:1000:GCP:O6	2.27	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:185:U:H4'	35:BA:218:A:H4'	1.91	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
35:BA:906:G:O2'	48:BQ:67:ARG:NH1	2.41	0.53
35:BA:973:A:H5'	35:BA:1188:U:H1'	1.90	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2756:U:H1'	35:BA:2757:A:H5''	1.90	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:37:VAL:HG12	40:BF:38:ARG:N	2.24	0.53
40:BF:127:GLU:HB2	40:BF:196:LEU:HD12	1.90	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:HA	49:BR:71:GLN:NE2	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: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
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:1346:A:H5''	9:AI:120:ARG:HH12	1.70	0.53
3:AC:51:GLY:O	3:AC:70:VAL:HG13	2.08	0.53
3:AC:117:ALA:O	3:AC:187:ALA:HB2	2.09	0.53
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.89	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
29:B4:26:SER:HB3	41:BG:105:LYS:HE3	1.91	0.53
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.28	0.53
35:BA:130:C:O3'	35:BA:1349:A:H1'	2.08	0.53
35:BA:252:G:O2'	35:BA:253:C:C5'	2.57	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
35:BA:1064:C:C3'	35:BA:1065:U:H5''	2.38	0.53
35:BA:1297:C:P	35:BA:2710:C:H4'	2.49	0.53
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.09	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: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:2812:G:N2	35:BA:2889:C:C2	2.77	0.53
36:BB:57:A:C2	36:BB:58:A:N9	2.77	0.53
37:BC:23:ASP:O	37:BC:27:HIS:N	2.41	0.53
37:BC:29:VAL:HG12	37:BC:222:VAL:CG2	2.38	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:ND1	38:BD:201:HIS:O	2.41	0.53
39:BE:4:ILE:HG23	39:BE:198:VAL:HB	1.90	0.53
39:BE:138:PRO:CD	39:BE:139:GLY:H	2.21	0.53
40:BF:82:ILE:CG1	40:BF:83:PHE:H	2.21	0.53
40:BF:195:ASP:CB	40:BF:198:ALA:HB3	2.37	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:77:G:H5'	1:AA:78:G:OP2	2.08	0.53
1:AA:102:G:H2'	1:AA:103:C:H6	1.74	0.53
1:AA:112:G:C4'	1:AA:389:A:H4'	2.37	0.53
1:AA:255:G:H1'	17:AQ:16:GLN:HE22	1.74	0.53
1:AA:412:A:C2	4:AD:35:ARG:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:532:A:H2	3:AC:156:ARG:HH22	1.56	0.53
1:AA:826:C:H1'	8:AH:15:ASN:ND2	2.24	0.53
1:AA:1010:G:H2'	1:AA:1011:G:H8	1.73	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
1:AA:1351:U:N3	1:AA:1352:C:H5	2.07	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:N	16:AP:19:ILE:HD13	2.24	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:271(Y):U:OP1	35:BA:272(D):G:C5'	2.55	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
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: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
36:BB:50:G:P	50:BS:63:THR:HG23	2.49	0.53
37:BC:56:GLN:HG2	37:BC:204:ALA:HB2	1.89	0.53
37:BC:67:GLY:N	37:BC:188:ASN:HD21	2.06	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
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:431:A:H2'	1:AA:432:A:C8	2.43	0.53
1:AA:653:A:O5'	8:AH:56:LYS:HE3	2.09	0.53
1:AA:762:C:H2'	1:AA:763:G:H8	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AA:979:C:H1'	1:AA:1318:A:N1	2.24	0.53
1:AA:1047:G:O3'	14:AN:4:LYS:HB3	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: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
2:AB:46:LYS:O	2:AB:47:THR:C	2.47	0.53
2:AB:118:LEU:HB3	2:AB:142:LEU:CD1	2.38	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
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
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:176:G:C2'	35:BA:177:G:H5'	2.38	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:O5'	35:BA:818:G:C8	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
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.43	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
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:556:C:O2'	1:AA:557:G:H5'	2.08	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
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:N	16:AP:80:PHE:CD1	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
27:B2:30:ARG:CZ	55:BX:5:TYR:OH	2.57	0.53
35:BA:70:G:H21	35:BA:71:A:H62	1.57	0.53
35:BA:107:C:H2'	35:BA:108:U:C6	2.44	0.53
35:BA:257:A:C2'	35:BA:258:G:H5'	2.38	0.53
35:BA:310:A:P	56:BY:18:GLY:HA2	2.49	0.53
35:BA:483:A:H1'	56:BY:60:PHE:CE1	2.44	0.53
35:BA:589:C:H2'	35:BA:590:A:C8	2.36	0.53
35:BA:868:U:O5'	35:BA:868:U:H6	1.92	0.53
35:BA:974:G:C6	35:BA:1186:G:C6	2.97	0.53
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.05	0.53
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1332:G:N2	35:BA:1609:A:O2'	2.42	0.53
35:BA:1549:C:H5''	35:BA:1549:C:H6	1.74	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: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
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:O	37:BC:98:GLU:HG3	2.09	0.53
38:BD:87:ASN:CB	38:BD:88:ARG:NH2	2.69	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
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	2.23	0.53
39:BE:45:THR:HG22	39:BE:46:ALA:N	2.24	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:CD	51:BT:11:GLU:N	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
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
1:AA:658:G:H5''	15:AO:31:LEU:CD2	2.38	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
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
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:O2	22:AV:47:U:C3'	2.57	0.53
24:AY:84:VAL:HG12	24:AY:85:ASN:N	2.23	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
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:70:G:H2'	35:BA:113:G:O2'	2.08	0.53
35:BA:203:C:C5'	35:BA:204:A:H5''	2.39	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:855:G:N2	35:BA:923:C:O2	2.42	0.53
35:BA:1598:C:O3'	55:BX:35:THR:HG23	2.08	0.53
35:BA:1665:A:C5'	46:BO:66:LYS:O	2.57	0.53
35:BA:1953:A:C2	35:BA:2550:G:O4'	2.62	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
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:64:ILE:CG2	40:BF:65:TRP:N	2.72	0.53
40:BF:174:VAL:HG12	40:BF:176:LEU:HD11	1.90	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
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:48:GLU:CA	48:BQ:51:ARG:HB3	2.38	0.53
48:BQ:128:LYS:O	48:BQ:129:THR:HG23	2.08	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:960:U:C5	19:AS:78:ARG:HD3	2.44	0.52
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:H8	1:AA:1324:A:OP2	1.92	0.52
1:AA:1505:G:H5''	1:AA:1506:U:OP1	2.09	0.52
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.39	0.52
4:AD:59:ARG:HH11	4:AD:59:ARG:CG	2.22	0.52
5:AE:24:ARG:HH11	5:AE:24:ARG:CG	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:HD13	29:B4:5:ILE:N	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:85:G:O5'	56:BY:30:VAL:HB	2.08	0.52
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.91	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
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:H8	35:BA:1839:G:H5'	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:2262:U:C4'	35:BA:2328:A:C2	2.86	0.52
35:BA:2271:G:O2'	35:BA:2272:U:H5'	2.09	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
36:BB:66:A:C6	36:BB:108:U:C4	2.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:246:PRO:O	38:BD:247:ALA:HB2	2.09	0.52
39:BE:45:THR:CG2	39:BE:46:ALA:N	2.72	0.52
40:BF:141:ALA:C	40:BF:143:ALA:H	2.10	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
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
1:AA:1188:A:H8	1:AA:1188:A:O5'	1.91	0.52
1:AA:1254:C:H5'	1:AA:1356:G:H4'	1.91	0.52
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.72	0.52
1:AA:1494:G:C5	1:AA:1495:U:C5	2.97	0.52
2:AB:11:LEU:O	2:AB:16:HIS:CE1	2.62	0.52
2:AB:80:ILE:HD12	2:AB:80:ILE:N	2.16	0.52
3:AC:70:VAL:C	3:AC:106:VAL:HG23	2.30	0.52
10:AJ:58:ASP:N	10:AJ:58:ASP:OD1	2.42	0.52
12:AL:90:VAL:O	12:AL:92:ASP:N	2.42	0.52
13:AM:54:VAL:HG12	13:AM:58:GLU:CD	2.30	0.52
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.24	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:260:LEU:CD2	35:BA:2655:G:H5''	2.39	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: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:482:A:H4'	56:BY:47:LYS:CG	2.40	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
35:BA:1223:G:N2	35:BA:1226:A:OP2	2.42	0.52
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:2133:G:H1'	35:BA:2158:A:H61	1.73	0.52
35:BA:2153:G:C2	35:BA:2154:G:H1'	2.43	0.52
35:BA:2590:A:O3'	38:BD:239:ARG:HG3	2.09	0.52
35:BA:2822:G:O6	49:BR:4:LEU:HD23	2.08	0.52
36:BB:115:G:N3	36:BB:116:G:C8	2.77	0.52
37:BC:29:VAL:HG12	37:BC:32:LEU:HD12	1.92	0.52
37:BC:68:LEU:CD2	37:BC:174:PRO:HB2	2.39	0.52
38:BD:125:ILE:CD1	38:BD:137:PRO:HD3	2.34	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
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: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
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
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:H2'	22:AV:68:C:O2	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
29:B4:7:PRO:HD3	41:BG:67:LYS:HE3	1.92	0.52
31:B6:6:ARG:NH1	31:B6:6:ARG:HB3	2.24	0.52
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.09	0.52
33:B8:49:VAL:HB	33:B8:53:PRO:HD3	1.92	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:N3	35:BA:653:A:H2'	2.23	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
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:2222:G:O4'	38:BD:149:PRO:CG	2.56	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
37:BC:100:ILE:CG2	37:BC:126:LYS:HE3	2.39	0.52
38:BD:85:ASP:OD1	38:BD:88:ARG:CD	2.34	0.52
38:BD:147:LEU:CD1	38:BD:155:LEU:HD13	2.40	0.52
38:BD:169:GLU:O	38:BD:169:GLU:HG2	2.07	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:16:ARG:NH1	41:BG:28:VAL:CG1	2.73	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
45:BN:24:GLY:C	45:BN:26:LEU:H	2.12	0.52
45:BN:68:GLU:HA	45:BN:86:PRO:HB2	1.90	0.52
45:BN:75:TYR:HA	45:BN:82:LEU:HA	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:H	48:BQ:125:LEU:CD2	2.22	0.52
51:BT:50:ILE:HA	51:BT:99:LEU:HD12	1.92	0.52
51:BT:128:GLU:CD	51:BT:128:GLU:C	2.68	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:8:A:N6	4:AD:209:ARG:OXT	2.43	0.52
1:AA:22:G:H5'	1:AA:885:G:O4'	2.09	0.52
1:AA:436:C:O2'	4:AD:157:LEU:HD11	2.09	0.52
1:AA:575:G:C4'	1:AA:576:G:O5'	2.55	0.52
1:AA:918:A:C5	1:AA:919:A:C5	2.98	0.52
1:AA:1091:U:O2	1:AA:1095:U:C2	2.62	0.52
1:AA:1169:A:H8	1:AA:1169:A:O5'	1.92	0.52
1:AA:1191:A:OP1	3:AC:4:LYS:NZ	2.41	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
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
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:O	13:AM:73:GLU:OE1	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:169:ILE:O	24:AY:185:LEU:N	2.43	0.52
24:AY:171:TRP:O	24:AY:182:VAL:HG13	2.08	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:2833:G:C3'	35:BA:2834:G:C5'	2.72	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:HA	49:BR:43:GLU:OE1	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:502:G:H8	1:AA:502:G:O5'	1.93	0.52
1:AA:754:C:C4'	15:AO:72:ARG:NH1	2.66	0.52
1:AA:787:A:H2'	1:AA:788:U:H5'	1.91	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
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:5:LYS:HG2	15:AO:8:LYS:HD2	1.91	0.52
15:AO:12:ILE:HD11	15:AO:31:LEU:HD21	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: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
24:AY:222:ASP:O	24:AY:226:GLN:N	2.42	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:B2:2:LYS:N	35:BA:98:G:P	2.83	0.52
27:B2:41:ILE:CG1	27:B2:42:GLY:N	2.72	0.52
32:B7:12:ARG:HA	35:BA:686:G:O6	2.10	0.52
34:B9:10:ILE:HD13	34:B9:32:HIS:HB3	1.91	0.52
35:BA:237:C:O2'	35:BA:238:C:H5'	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
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
35:BA:1543:C:O5'	35:BA:1543:C:H6	1.93	0.52
35:BA:1570:A:O4'	38:BD:38:LYS:HD3	2.09	0.52
35:BA:1799:G:O6	38:BD:179:SER:CB	2.57	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:2684:U:O2'	46:BO:68:GLU:HG3	2.09	0.52
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.91	0.52
36:BB:111:G:H2'	36:BB:112:U:H5'	1.91	0.52
37:BC:47:LEU:HD23	37:BC:208:PHE:CE1	2.42	0.52
37:BC:201:PRO:HD2	37:BC:208:PHE:CE1	2.44	0.52
38:BD:80:ALA:HB3	38:BD:94:LEU:CD1	2.40	0.52
38:BD:108:PRO:HG3	38:BD:143:HIS:NE2	2.25	0.52
38:BD:120:GLY:O	38:BD:123:ALA:HB2	2.08	0.52
39:BE:117:MET:H	39:BE:122:PHE:HB2	1.73	0.52
40:BF:97:TYR:O	40:BF:98:SER:O	2.26	0.52
40:BF:124:LEU:O	40:BF:193:VAL:HA	2.10	0.52
41:BG:175:LEU:O	41:BG:176:LEU:HB2	2.09	0.52
46:BO:113:LYS:NZ	46:BO:113:LYS:HB3	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:52:G:N2	1:AA:360:A:H1'	2.24	0.52
1:AA:246:A:O3'	1:AA:247:G:C4'	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AA:945:G:C2	1:AA:1337:G:N2	2.77	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
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:HH11	4:AD:159:ARG:CG	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:33:GLU:O	8:AH:34:GLU:C	2.48	0.52
8:AH:106:GLY:C	8:AH:108:GLY:H	2.13	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:53:LEU:HD11	20:AT:92:LEU:CD1	2.39	0.52
20:AT:61:SER:OG	20:AT:62:LEU:N	2.38	0.52
24:AY:68:ILE:HD13	24:AY:92:HIS:NE2	2.25	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
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:271(M):G:C2'	35:BA:271(N):U:H5''	2.39	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:674:G:OP1	40:BF:76:GLY:HA3	2.10	0.52
35:BA:819:A:C8	35:BA:1188:U:O4	2.62	0.52
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
35:BA:1614:A:H61	54:BW:87:PRO:CA	2.15	0.52
35:BA:1663:C:N3	35:BA:1992:G:N7	2.58	0.52
35:BA:1881:C:H2'	35:BA:1881:C:O2	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2777:G:C4'	35:BA:2778:A:H5'	2.40	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:6:PHE:CE1	38:BD:13:ARG:NH2	2.70	0.52
38:BD:17:THR:CG2	38:BD:18:VAL:N	2.44	0.52
38:BD:35:LYS:HG2	38:BD:63:ARG:HG3	1.88	0.52
38:BD:213:ARG:HH12	38:BD:219:PRO:CG	2.22	0.52
39:BE:35:GLN:NE2	39:BE:36:ARG:O	2.29	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:O	52:BU:88:ILE:CG1	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: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
57:BZ:102:LEU:HD21	57:BZ:124:ILE:CD1	2.31	0.52
57:BZ:102:LEU:HB2	57:BZ:122:ARG:C	2.29	0.52
57:BZ:152:ALA:O	57:BZ:155:LEU:CD2	2.56	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:597:G:N2	8:AH:94:TYR:HE2	2.08	0.52
1:AA:660:G:C2	1:AA:746:A:C2	2.97	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
1:AA:895:G:O2'	1:AA:896:C:H5'	2.09	0.52
1:AA:957:U:H6	1:AA:957:U:O5'	1.92	0.52
1:AA:1119:C:O5'	1:AA:1119:C:H6	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:AD:58:LEU:HD13	4:AD:62:GLN:HG3	1.91	0.52
4:AD:173:TRP:HB3	4:AD:187:ARG:NH2	2.25	0.52
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.08	0.52
7:AG:27:ILE:HG22	7:AG:27:ILE:O	2.09	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:74:VAL:HG13	24:AY:74:VAL:O	2.10	0.52
24:AY:177:LYS:NZ	42:BH:110:SER:HB3	2.24	0.52
24:AY:312:ARG:HH12	24:AY:370:HIS:HB3	1.73	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
30:B5:6:VAL:O	35:BA:2615:U:C4	2.62	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:38:A:H5'	40:BF:50:SER:OG	2.09	0.52
35:BA:68:G:C6	35:BA:69:C:C4	2.98	0.52
35:BA:81:G:H3'	35:BA:82:G:C8	2.45	0.52
35:BA:177:G:H3'	35:BA:178:G:C8	2.45	0.52
35:BA:565:C:P	53:BV:78:LYS:H	2.32	0.52
35:BA:636:G:H2'	47:BP:115:LEU:CD1	2.34	0.52
35:BA:771:G:C2	35:BA:772:C:C5	2.97	0.52
35:BA:955:C:C5	35:BA:956:G:N7	2.77	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: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
35:BA:2681:C:H5	35:BA:2727:G:N2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.10	0.52
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.92	0.52
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
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
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: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:834:C:OP1	18:AR:60:ALA:HB2	2.09	0.52
1:AA:895:G:N1	1:AA:904:C:O2	2.32	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
2:AB:8:LYS:HZ1	2:AB:217:ARG:NH1	2.08	0.52
2:AB:52:GLU:O	2:AB:56:ARG:HG3	2.09	0.52
2:AB:109:SER:O	2:AB:113:HIS:CE1	2.63	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:52:GLU:O	7:AG:53:LYS:C	2.48	0.52
7:AG:136:LYS:O	7:AG:138:LYS:N	2.43	0.52
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.91	0.52
13:AM:8:GLU:OE1	13:AM:67:GLU:HG2	2.10	0.52
13:AM:57:ARG:O	13:AM:60:VAL:HB	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

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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: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
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
36:BB:102:A:H2'	36:BB:102:A:N3	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:64:G:C2	1:AA:67:C:N4	2.77	0.52
1:AA:66:G:N2	1:AA:172:A:H2	2.08	0.52
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.45	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:26:PHE:CZ	7:AG:124:LEU:HD11	2.45	0.52
7:AG:145:ALA:O	7:AG:147:ALA:N	2.43	0.52
11:AK:90:GLY:O	11:AK:94:ALA:N	2.43	0.52
12:AL:34:ARG:HD3	12:AL:105:TYR:HH	1.71	0.52
12:AL:113:ARG:HG3	12:AL:114:LYS:H	1.75	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:O5'	22:AV:34:C:C6	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:146:ARG:NE	35:BA:2656:U:H1'	2.24	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: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: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
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:2280:G:N1	35:BA:2281:C:C4	2.77	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:33:VAL:HG23	39:BE:47:VAL:HG13	1.91	0.52
39:BE:128:SER:O	39:BE:129:HIS:HB2	2.10	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:24:GLY:HA3	47:BP:33:ARG:NH1	2.25	0.52
47:BP:106:LEU:O	47:BP:107:LYS:CG	2.58	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: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
1:AA:979:C:H41	1:AA:1360:A:N6	2.08	0.52
1:AA:1393:U:C5'	1:AA:1502:A:OP1	2.58	0.52
1:AA:1409:C:C2	1:AA:1410:G:N7	2.78	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:70:PRO:O	5:AE:72:GLN:HG3	2.10	0.52
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.24	0.52
10:AJ:62:HIS:HB2	14:AN:59:ALA:HB3	1.91	0.52
13:AM:97:PRO:N	13:AM:110:ARG:HD3	2.24	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
32:B7:32:LYS:HE2	35:BA:180:G:P	2.50	0.52
35:BA:230:U:O2'	35:BA:231:C:H5'	2.10	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:586:A:OP1	40:BF:89:VAL:HG21	2.10	0.52
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.91	0.52
35:BA:861:A:C2'	35:BA:862:G:H5'	2.40	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
35:BA:1799:G:N2	38:BD:155:LEU:HG	2.24	0.52
35:BA:2280:G:O2'	35:BA:2281: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
37:BC:65:PRO:HD2	37:BC:188:ASN:HA	1.90	0.52
39:BE:51:PHE:O	39:BE:52:LEU:C	2.47	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:HH11	51:BT:53:ARG:CB	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:HH11	56:BY:2:ARG:HG2	1.73	0.52
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
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
2:AB:22:LYS:CE	2:AB:40:HIS:CE1	2.94	0.51
2:AB:70:PHE:N	2:AB:70:PHE:CD1	2.77	0.51
2:AB:170:GLU:O	2:AB:172:ILE:N	2.43	0.51
2:AB:178:ARG:NH1	8:AH:71:GLY:O	2.42	0.51
3:AC:6:HIS:CE1	3:AC:184:TYR:HE2	2.28	0.51
3:AC:11:ARG:HH21	3:AC:180:ALA:HB3	1.75	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
9:AI:52:ALA:C	9:AI:95:LYS:HZ1	2.13	0.51
11:AK:126:ARG:HH11	11:AK:126:ARG:CB	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:OD1	16:AP:40:ASP:C	2.48	0.51
17:AQ:90:ILE:O	17:AQ:93:GLN:HB3	2.10	0.51
19:AS:30:LEU:C	19:AS:30:LEU:HD23	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:B8:4:MET:HE2	35:BA:592:G:H21	1.75	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
35:BA:197:A:H5'	35:BA:197:A:C8	2.45	0.51
35:BA:271(L):U:H4'	35:BA:271(M):G:C8	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:770:G:O2'	35:BA:1354:A:N1	2.36	0.51
35:BA:852:G:O6	35:BA:926:A:C6	2.63	0.51
35:BA:1139:G:N3	35:BA:1143:A:H2	2.08	0.51
35:BA:1963:U:H2'	35:BA:1963:U:O2	2.10	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
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:2751:G:H2'	35:BA:2751:G:N3	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
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:HD2	50:BS:106:ARG:C	2.30	0.51
50:BS:106:ARG:CD	50:BS:107:GLU:O	2.58	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:ND2	52:BU:66:ASN:C	2.62	0.51
52:BU:101:ARG:NH1	52:BU:101:ARG:HG3	2.25	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:70:LEU:CD2	57:BZ:70:LEU:N	2.72	0.51
57:BZ:118:GLN:N	57:BZ:173:ALA:O	2.35	0.51
1:AA:575:G:N7	1:AA:881:G:N2	2.58	0.51
1:AA:668:G:H4'	15:AO:48:LYS:CB	2.38	0.51
1:AA:969:A:C2'	1:AA:970:C:H5'	2.40	0.51
1:AA:1204:A:C2'	1:AA:1205:U:O4'	2.59	0.51
1:AA:1483:A:C2	35:BA:1960:A:C1'	2.92	0.51
2:AB:68:ILE:HB	2:AB:70:PHE:CE1	2.45	0.51
2:AB:80:ILE:CG2	2:AB:212:GLN:HA	2.40	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:CG	15:AO:65:ARG:NH1	2.61	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:10:PHE:CE1	19:AS:70:LYS:HD2	2.42	0.51
22:AV:15:G:H5''	22:AV:16:C:H5'	1.92	0.51
24:AY:25:GLY:HA3	24:AY:29:ILE:CG1	2.40	0.51
24:AY:173:ILE:HA	24:AY:227:LEU:CD1	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:199:A:N1	35:BA:2433:A:C2'	2.73	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:807:U:H5	47:BP:39:LYS:HZ1	1.57	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
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
35:BA:2110:G:H1	35:BA:2178:C:N4	2.06	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
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:51:ARG:NH1	41:BG:53:LEU:HD21	2.25	0.51
41:BG:125:PHE:CD2	41:BG:131:TYR:HB2	2.44	0.51
43:BJ:64:UNK:C	43:BJ:66:UNK:N	2.72	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:115:G:O2'	1:AA:116:A:C8	2.58	0.51
1:AA:144:G:H2'	1:AA:145:G:O4'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:H6	1:AA:1320:C:C5'	2.21	0.51
1:AA:1353:G:C2	1:AA:1354:C:C5	2.98	0.51
2:AB:60:ASP:C	2:AB:64:ARG:HH21	2.13	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
3:AC:108:ASN:HB3	3:AC:111:LEU:CG	2.40	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:46:ALA:HB1	7:AG:121:ALA:HB2	1.92	0.51
7:AG:141:VAL:O	7:AG:144:MET:HB2	2.10	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:7:LEU:HA	24:AY:10:VAL:HG21	1.91	0.51
24:AY:210:LEU:C	24:AY:212:ASN:H	2.11	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:B9:10:ILE:HG21	35:BA:2477:C:H5	1.76	0.51
34:B9:16:VAL:HG21	35:BA:1033:U:OP1	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:942:G:H5''	47:BP:36:LYS:HA	1.91	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
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
37:BC:77:ILE:HG13	37:BC:115:ALA:CB	2.40	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
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
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: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
51:BT:123:GLN:HA	51:BT:126:ALA:HB2	1.93	0.51
52:BU:76:TYR:HD1	52:BU:77:SER:N	2.08	0.51
1:AA:9:G:C2	1:AA:26:A:C2	2.99	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: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
1:AA:1431:C:N3	1:AA:1470:G:C2	2.78	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:OD1	15:AO:21:ASP:O	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:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.35	0.51
30:B5:13:LYS:O	30:B5:16:ARG:CB	2.54	0.51
31:B6:9:LEU:HD13	31:B6:10:LEU:N	2.25	0.51
35:BA:171:G:O2'	35:BA:172:C:H5'	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
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: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:H2'	35:BA:1882:C:O2	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
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:4:PRO:HB3	46:BO:22:ILE:C	2.31	0.51
46:BO:13:ASN:C	46:BO:15:GLY:N	2.63	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
50:BS:102:ALA:HB3	50:BS:103:GLU:OE1	2.11	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:14:LYS:O	57:BZ:17:ALA:HB3	2.10	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

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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:408:A:H2'	1:AA:409:G:H8	1.76	0.51
1:AA:585:G:C4'	12:AL:8:ASN:ND2	2.71	0.51
1:AA:683:G:H3'	1:AA:684:A:H8	1.75	0.51
1:AA:950:U:H3'	13:AM:102:ARG:HH22	1.75	0.51
1:AA:951:G:N1	1:AA:1231:G:C6	2.78	0.51
1:AA:971:G:H4'	1:AA:972:C:C5'	2.41	0.51
1:AA:1152:A:C5'	10:AJ:13:HIS:HD2	2.19	0.51
1:AA:1333:A:N6	1:AA:1334:G:C2	2.79	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
12:AL:24:VAL:CG1	12:AL:98:TYR:CE2	2.91	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:85:G:P	56:BY:30:VAL:HB	2.49	0.51
35:BA:116:C:N4	35:BA:117:G:C6	2.78	0.51
35:BA:134:C:C4	35:BA:135:G:N7	2.79	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:948:G:C6	35:BA:949:C:C4	2.99	0.51
35:BA:1202:C:H2'	35:BA:1203:G:C5'	2.40	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:2619:C:O3'	39:BE:152:LYS:HA	2.10	0.51
35:BA:2630:G:HO2'	35:BA:2892:A:HO2'	1.57	0.51
35:BA:2838:G:O4'	49:BR:45:ARG:NH1	2.44	0.51
36:BB:20:C:C2'	36:BB:21:G:H5''	2.30	0.51
37:BC:59:ARG:HB2	37:BC:164:ARG:HG3	1.92	0.51
37:BC:64:LEU:HD12	37:BC:159:GLY:O	2.10	0.51
41:BG:86:MET:N	41:BG:87:PRO:CD	2.73	0.51
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.92	0.51
47:BP:95:VAL:CG2	47:BP:125:VAL:HG23	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:54:MET:CE	48:BQ:64:ILE:HD13	2.40	0.51
50:BS:15:ARG:HH11	50:BS:15:ARG:CB	2.24	0.51
51:BT:28:VAL:CG2	51:BT:46:GLU:HA	2.40	0.51
51:BT:91:ARG:HA	51:BT:117:ASP:H	1.75	0.51
54:BW:42:ARG:HG2	54:BW:42:ARG:O	2.11	0.51
1:AA:80:G:C2'	1:AA:81:U:H5'	2.41	0.51
1:AA:576:G:OP2	1:AA:576:G:H3'	2.09	0.51
1:AA:1014:A:N3	19:AS:34:TRP:CD2	2.78	0.51
1:AA:1060:C:C5'	10:AJ:51:ARG:HD3	2.28	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
2:AB:83:MET:O	2:AB:86:GLU:N	2.44	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:N	2:AB:236:TYR:CD1	2.76	0.51
3:AC:157:ILE:CG2	3:AC:164:ARG:NH2	2.66	0.51
6:AF:43:LEU:H	6:AF:43:LEU:CD2	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
12:AL:126:LYS:CB	24:AY:487:ARG:HE	2.19	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
27:B2:65:ASN:HD21	35:BA:112:U:H5'	1.76	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:B8:4:MET:HE2	35:BA:592:G:N3	2.26	0.51
33:B8:45:GLY:O	33:B8:46:ARG:CB	2.55	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
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
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2631:G:N2	39:BE:61:ARG:HH22	2.09	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
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:17:ILE:CG2	52:BU:39:LEU:HD11	2.41	0.51
52:BU:21:ALA:HB2	52:BU:39:LEU:CD2	2.29	0.51
57:BZ:30:ASN:O	57:BZ:32:HIS:N	2.43	0.51
57:BZ:153:SER:HA	57:BZ:155:LEU:CD2	2.40	0.51
1:AA:9:G:OP2	5:AE:121:LYS:HD2	2.11	0.51
1:AA:66:G:O4'	1:AA:173:U:C4	2.64	0.51
1:AA:80:G:H1	1:AA:90:U:H5'	1.76	0.51
1:AA:260:G:O2'	1:AA:261:U:H5'	2.11	0.51
1:AA:805:C:C2'	1:AA:806:C:H5'	2.41	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
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:N	26:B1:83:GLU:OE1	2.44	0.51
30:B5:45:VAL:HG13	30:B5:51:TYR:H	1.76	0.51
35:BA:296:C:H42	35:BA:342:G:H1	1.58	0.51
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:572:A:C2	35:BA:2033:A:C2	2.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:977:G:H2'	35:BA:978:G:C8	2.43	0.51
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.72	0.51
35:BA:1248:G:OP1	40:BF:92:PRO:HG3	2.10	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
39:BE:112:GLY:HA2	39:BE:159:HIS:CD2	2.46	0.51
42:BH:108:GLY:O	42:BH:109:PHE:C	2.49	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:623:C:H3'	1:AA:624:C:H6	1.76	0.51
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.11	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:1319:A:OP1	19:AS:5:LEU:HD23	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
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:HH11	3:AC:88:ARG:CG	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
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:H6	22:AV:48:C:P	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:HA	31:B6:42:TRP:CE3	2.45	0.51
33:B8:26:LYS:NZ	35:BA:2361:A:OP2	2.29	0.51
35:BA:139(A):G:N2	55:BX:44:GLU:OE1	2.33	0.51
35:BA:144:C:H2'	35:BA:145:G:H8	1.76	0.51
35:BA:249:C:H2'	35:BA:2395:C:P	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:401:A:H2'	35:BA:402:A:H8	1.76	0.51
35:BA:572:A:OP2	53:BV:78:LYS:NZ	2.44	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
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: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
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
36:BB:116:G:N3	36:BB:117:G:C8	2.79	0.51
37:BC:75:LEU:O	37:BC:76:ALA:HB2	2.11	0.51
37:BC:180:PHE:CD2	37:BC:184:LYS:HG3	2.41	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
39:BE:111:ARG:HA	49:BR:2:ARG:HG2	1.92	0.51
41:BG:102:PHE:HD1	41:BG:103:LEU:N	2.08	0.51
42:BH:162:ILE:O	42:BH:162:ILE:CG1	2.59	0.51
45:BN:40:PRO:HB3	52:BU:64:ARG:O	2.10	0.51
45:BN:57:ALA:CB	45:BN:124:ALA:HA	2.41	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
52:BU:66:ASN:ND2	52:BU:66:ASN:O	2.41	0.51
53:BV:66:ARG:HA	53:BV:90:PRO:HA	1.92	0.51
56:BY:15:VAL:O	56:BY:15:VAL:CG1	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:65:GLN:HB3	57:BZ:67:LEU:HD11	1.93	0.51
57:BZ:100:VAL:HG23	57:BZ:126:VAL:HG22	1.89	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
1:AA:1357:A:HO2'	14:AN:34:TYR:HE1	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:3:ILE:HG13	15:AO:8:LYS:HG2	1.93	0.51
15:AO:3:ILE:HD11	15:AO:8:LYS:HE2	1.93	0.51
15:AO:11:VAL:O	15:AO:15:PHE:HD1	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
33:B8:8:LYS:HZ3	35:BA:243:U:H5'	1.76	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:C6	35:BA:958:U:H3'	2.45	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
35:BA:2684:U:O4'	46:BO:70:LYS:HD2	2.10	0.51
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.09	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: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
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
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
48:BQ:31:ASP:O	48:BQ:32:TYR:CD1	2.64	0.51
51:BT:16:ARG:NH2	51:BT:82:LEU:O	2.43	0.51
51:BT:27:THR:O	51:BT:28:VAL:CB	2.59	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:42:G:H2'	1:AA:43:C:C6	2.46	0.51
1:AA:300:A:H1'	1:AA:565:U:O2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:356:A:H2	1:AA:368:U:O2	1.94	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
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
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
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:4:ILE:HG23	13:AM:57:ARG:HB2	1.93	0.51
13:AM:46:LYS:HG2	13:AM:46:LYS:O	2.11	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:15:THR:O	24:AY:106:VAL:CG2	2.59	0.51
24:AY:131:ARG:HH22	24:AY:162:LEU:HD13	1.76	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:7:G:H2'	35:BA:8:A:H8	1.76	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:847:U:C2'	35:BA:848:G:H5''	2.38	0.51
35:BA:1011:G:C2	35:BA:1013:C:C2	2.99	0.51
35:BA:1494:A:N3	35:BA:1494:A:C3'	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:2223:G:C4'	38:BD:269:PHE:HZ	2.23	0.51
35:BA:2249:U:H4'	35:BA:2275:C:C5	2.46	0.51
35:BA:2305:A:C5'	41:BG:134:GLY:HA3	2.05	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2830:G:OP1	39:BE:75:VAL:CG1	2.58	0.51
37:BC:80:GLY:O	37:BC:83:ILE:HD12	2.10	0.51
37:BC:181:PRO:CB	37:BC:182:PRO:CD	2.87	0.51
38:BD:17:THR:O	38:BD:211:ARG:NH2	2.38	0.51
38:BD:45:ASN:ND2	38:BD:46:GLN:H	2.09	0.51
38:BD:263:ARG:NH1	38:BD:263:ARG:HB3	2.26	0.51
40:BF:203:GLN:O	40:BF:205:ARG:N	2.43	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:88:A:C2	1:AA:89:C:H5	2.28	0.50
1:AA:229:U:OP1	16:AP:59:TRP:CH2	2.64	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:966:G:N2	1:AA:967:C:C2	2.78	0.50
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:1342:C:C5'	9:AI:125:TYR:HB3	2.38	0.50
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.69	0.50
2:AB:15:VAL:HG21	2:AB:209:ARG:NE	2.26	0.50
2:AB:163:PHE:CD1	2:AB:185:ILE:HB	2.46	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:HD13	6:AF:25:ILE:O	2.11	0.50
6:AF:71:ARG:HG3	6:AF:71:ARG:NH1	2.26	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
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:CD2	24:AY:267:HIS:H	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
32:B7:38:GLY:O	35:BA:458:G:H5'	2.11	0.50
35:BA:30:G:H2'	35:BA:31:C:O4'	2.11	0.50
35:BA:328:U:H4'	56:BY:68:HIS:CE1	2.47	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:910:A:N6	48:BQ:13:GLN:H	2.09	0.50
35:BA:954:G:OP1	48:BQ:15:GLY:HA2	2.11	0.50
35:BA:1060:U:H5'	35:BA:1061:U:H5	1.75	0.50
35:BA:1138:G:O2'	45:BN:102:ALA:O	2.29	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
37:BC:114:VAL:HG12	37:BC:144:THR:HB	1.93	0.50
39:BE:9:VAL:HG12	39:BE:25:VAL:C	2.31	0.50
39:BE:33:VAL:HG11	39:BE:88:GLY:C	2.31	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
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
45:BN:28:THR:N	45:BN:106:MET:HE3	2.26	0.50
46:BO:8:LEU:HD12	46:BO:8:LEU:N	2.26	0.50
48:BQ:16:ARG:CG	48:BQ:17:LEU:H	2.24	0.50
48:BQ:111:GLU:O	48:BQ:113:GLN:N	2.44	0.50
49:BR:99:LYS:HD2	49:BR:99:LYS:N	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
57:BZ:109:ALA:O	57:BZ:111:VAL:N	2.45	0.50
1:AA:62:U:H4'	1:AA:385:C:O2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:347:G:H21	1:AA:348:G:H1'	1.77	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:833:U:H3	1:AA:853:G:H1	1.58	0.50
1:AA:834:C:C2	1:AA:853:G:C2	2.99	0.50
1:AA:981:U:H2'	1:AA:982:U:C6	2.47	0.50
1:AA:1068:G:N7	1:AA:1094:G:H2'	2.26	0.50
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
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:6:GLY:HA3	9:AI:84:ALA:HB2	1.92	0.50
9:AI:46:ALA:HB2	9:AI:74:ILE:HG23	1.94	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
28:B3:30:ARG:HG3	35:BA:1184:G:OP1	2.12	0.50
33:B8:61:LEU:HD13	33:B8:62:LEU:HG	1.93	0.50
35:BA:12:U:H1'	35:BA:2627:G:OP1	2.12	0.50
35:BA:209:C:C4'	35:BA:681:G:H4'	2.42	0.50
35:BA:646:A:H5'	35:BA:646:A:N3	2.26	0.50
35:BA:792:G:H2'	35:BA:2440:C:O2	2.11	0.50
35:BA:792:G:N7	35:BA:2440:C:H1'	2.26	0.50
35:BA:827:U:O2	35:BA:2246:G:H4'	2.11	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
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:2264:C:C4	35:BA:2265:U:C4	3.00	0.50
35:BA:2564:A:N6	35:BA:2565:A:N6	2.59	0.50
36:BB:10:C:N4	36:BB:11:C:H41	2.10	0.50
36:BB:106:G:O2'	36:BB:107:G:H5'	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:67:GLY:H	37:BC:188:ASN:HD21	1.60	0.50
37:BC:175:VAL:CG1	37:BC:188:ASN:HB2	2.41	0.50
38:BD:21:PHE:CD1	38:BD:91:ARG:NH2	2.79	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:227:ASN:HD22	38:BD:228:PRO:HD2	1.76	0.50
38:BD:274:ARG:NH1	38:BD:274:ARG:HG3	2.25	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:N	39:BE:202:LYS:HD2	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:H	49:BR:99:LYS:CD	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:59:A:H5'	1:AA:60:A:H5''	1.91	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: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
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	1.92	0.50
3:AC:114:PRO:O	3:AC:117:ALA:HB3	2.10	0.50
6:AF:43:LEU:N	6:AF:43:LEU:CD2	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:108:CYS:HA	24:AY:136:PRO:HG2	1.94	0.50
24:AY:113:ILE:HG22	24:AY:118:GLY:HA2	1.92	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: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:812:C:H1'	35:BA:1250:G:C2	2.46	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
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: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:2787:C:C1'	39:BE:61:ARG:HD3	2.41	0.50
37:BC:3:HIS:CG	37:BC:7:TYR:CD2	2.99	0.50
37:BC:128:GLY:HA3	37:BC:137:LEU:HD23	1.90	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
40:BF:5:ALA:HB1	40:BF:123:LEU:HD21	1.93	0.50
40:BF:195:ASP:HB3	40:BF:198:ALA:H	1.75	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:49:U:C4	1:AA:364:A:C5	2.99	0.50
1:AA:571:U:OP1	1:AA:819:A:N3	2.44	0.50
1:AA:577:G:OP1	1:AA:577:G:H8	1.95	0.50
1:AA:744:C:O2'	1:AA:745:C:H5'	2.10	0.50
1:AA:858:G:H8	1:AA:858:G:O5'	1.95	0.50
1:AA:976:G:OP2	1:AA:1358:U:O2'	2.29	0.50
1:AA:980:C:H5	1:AA:981:U:C2	2.29	0.50
1:AA:1057:G:C6	1:AA:1058:G:C4	3.00	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

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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:O	3:AC:95:THR:HG22	2.11	0.50
7:AG:65:ALA:HB3	7:AG:124:LEU:HD23	1.91	0.50
7:AG:119:ARG:O	7:AG:120:ILE:C	2.50	0.50
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.80	0.50
12:AL:89:ARG:HD3	12:AL:90:VAL:H	1.74	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:143:G:OP1	35:BA:1598:C:H1'	2.11	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
35:BA:1060:U:O3'	44:BK:1:UNK:N	2.44	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:1394:U:H5''	35:BA:1603:A:O3'	2.12	0.50
35:BA:1510:G:C2	35:BA:1511:C:C2	3.00	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
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
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:67:C:C6	1:AA:67:C:C3'	2.95	0.50
1:AA:575:G:OP1	1:AA:576:G:OP1	2.30	0.50
1:AA:764:C:H5''	15:AO:50:HIS:CD2	2.46	0.50
1:AA:773:G:C5'	38:BD:203:ASN:ND2	2.74	0.50
1:AA:828:A:C8	1:AA:828:A:H3'	2.45	0.50
1:AA:1106:G:H5''	3:AC:172:ARG:HG2	1.93	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
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
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:138:LEU:HD22	24:AY:253:PRO:CG	2.34	0.50
24:AY:155:LEU:HD12	24:AY:155:LEU:N	2.23	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:186:G:O2'	35:BA:187:G:H5'	2.12	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
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:1456:G:C2	35:BA:2704:C:C2	3.00	0.50
35:BA:1887:C:H2'	35:BA:1888:G:C5'	2.42	0.50
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
57:BZ:162:GLU:O	57:BZ:163:LEU:O	2.29	0.50
1:AA:552:U:H2'	1:AA:553:A:H8	1.77	0.50
1:AA:759:A:C1'	12:AL:12:ARG:HH22	2.23	0.50
1:AA:782:A:C8	1:AA:783:C:C5	3.00	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:1230:C:OP1	22:AV:30:G:H5''	2.12	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
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:31:CYS:O	4:AD:32:ALA:CB	2.59	0.50
4:AD:148:VAL:HG23	4:AD:181:MET:HB3	1.93	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
15:AO:53:HIS:C	15:AO:53:HIS:HD1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:76:GLN:HG2	24:AY:77:PHE:N	2.27	0.50
24:AY:146:ARG:HG2	35:BA:2656:U:H4'	1.94	0.50
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
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: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
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.12	0.50
35:BA:1058:G:OP2	44:BK:1:UNK:HA	2.12	0.50
35:BA:1125:G:H3'	35:BA:1126:A:C8	2.45	0.50
35:BA:1264:G:O3'	35:BA:2615:U:H5'	2.11	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: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:C5'	35:BA:2762:G:H8	2.24	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
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:455:C:O2	1:AA:477:A:C2	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:572:A:P	1:AA:573:A:OP1	2.70	0.50
1:AA:1003:G:C2	1:AA:1039:C:N3	2.80	0.50
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
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
2:AB:97:TRP:HZ3	2:AB:172:ILE:CB	2.24	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:N	19:AS:6:LYS:CD	2.64	0.50
20:AT:71:THR:HG22	20:AT:72:LEU:N	2.27	0.50
24:AY:63:GLU:OE2	24:AY:70:ILE:HB	2.11	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
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:13:A:C2	35:BA:526:A:N7	2.80	0.50
35:BA:225:A:H2'	35:BA:226:G:H5'	1.94	0.50
35:BA:331:A:H1'	35:BA:332:A:OP1	2.12	0.50
35:BA:524:U:O2'	35:BA:555:U:H4'	2.12	0.50
35:BA:693:C:H4'	35:BA:1353:A:O2'	2.11	0.50
35:BA:761:A:O5'	35:BA:761:A:C8	2.64	0.50
35:BA:954:G:OP1	48:BQ:15:GLY:N	2.44	0.50
35:BA:1247:A:O2'	35:BA:1248:G:H5''	2.12	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:1826:G:H4'	38:BD:242:ARG:NE	2.26	0.50
35:BA:1926:U:H3'	35:BA:1927:A:C5'	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:114:VAL:HG21	37:BC:149:ILE:HD11	1.93	0.50
38:BD:24:ILE:CG2	38:BD:83:GLU:CA	2.88	0.50
38:BD:111:LEU:HD22	38:BD:127:VAL:HB	1.92	0.50
40:BF:33:LEU:HD22	40:BF:33:LEU:N	2.27	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
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:47:ASP:HB2	47:BP:51:PHE:CD2	2.43	0.50
47:BP:115:LEU:N	47:BP:115:LEU:HD23	2.26	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: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
51:BT:107:ASP:CG	51:BT:108:ARG:N	2.65	0.50
52:BU:55:ARG:HH11	52:BU:55:ARG:HG3	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:279:A:C2'	17:AQ:95:TYR:HE1	2.25	0.50
1:AA:280:C:N4	17:AQ:91:ARG:NH2	2.59	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:627:G:OP1	16:AP:38:TYR:HE2	1.94	0.50
1:AA:658:G:O4'	15:AO:22:THR:HB	2.11	0.50
1:AA:719:C:H3'	1:AA:720:C:H6	1.74	0.50
1:AA:827:U:H2'	1:AA:827:U:O2	2.11	0.50
1:AA:961:U:OP2	1:AA:1223:C:O4'	2.29	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
2:AB:58:ILE:O	2:AB:62:ALA:N	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
12:AL:111:LYS:HG2	12:AL:112:ASP:OD1	2.12	0.50
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
15:AO:80:ALA:O	15:AO:83:GLU:N	2.45	0.50
15:AO:85:LEU:HD23	15:AO:85:LEU:H	1.74	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:H5'	22:AV:33:U:C6	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:HE2	24:AY:480:LYS:HA	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:B6:25:LYS:HD2	35:BA:2285:C:H42	1.77	0.50
31:B6:28:ARG:O	31:B6:32:ASN:HB3	2.12	0.50
32:B7:4:THR:CG2	35:BA:789:A:H5'	2.41	0.50
32:B7:40:TRP:CH2	35:BA:459:U:C4'	2.88	0.50
33:B8:13:ARG:NH1	47:BP:59:LEU:HD23	2.23	0.50
34:B9:31:LYS:O	34:B9:32:HIS:HD2	1.95	0.50
35:BA:53:A:H8	35:BA:53:A:O5'	1.95	0.50
35:BA:88:G:N3	35:BA:88:G:H2'	2.27	0.50
35:BA:94(A):G:C2'	35:BA:95:G:C5'	2.79	0.50
35:BA:376:C:H2'	35:BA:377:C:C6	2.46	0.50
35:BA:869:G:H1'	48:BQ:8:LYS:HD2	1.94	0.50
35:BA:886:C:O2'	35:BA:887:A:OP1	2.30	0.50
35:BA:938:G:H2'	35:BA:939:G:H8	1.77	0.50
35:BA:962:G:N1	35:BA:963:U:C2	2.80	0.50
35:BA:991:C:OP2	35:BA:1186:G:OP2	2.29	0.50
35:BA:994:C:O2'	35:BA:996:A:OP1	2.30	0.50
35:BA:1048:A:OP2	35:BA:1048:A:C8	2.64	0.50
35:BA:1244:G:H2'	35:BA:1245:G:H8	1.77	0.50
35:BA:1244:G:C4'	47:BP:11:GLY:HA2	2.42	0.50
35:BA:1267:U:C5	35:BA:2012:G:C2	2.99	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1712:C:N3	35:BA:1747:G:N2	2.59	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:2787:C:C2	39:BE:61:ARG:HD3	2.46	0.50
36:BB:81:G:N1	36:BB:97:G:N1	2.60	0.50
38:BD:92:ILE:CG2	38:BD:106:ILE:HG12	2.42	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
39:BE:33:VAL:HG11	39:BE:89:ASP:N	2.26	0.50
39:BE:70:ALA:O	39:BE:72:VAL:N	2.40	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
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.47	0.50
40:BF:107:LYS:O	40:BF:206:ILE:HG23	2.11	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
48:BQ:24:GLY:O	48:BQ:26:TYR:N	2.45	0.50
48:BQ:58:PHE:O	48:BQ:58:PHE:CD1	2.63	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:217:C:H5''	1:AA:217:C:H6	1.76	0.50
1:AA:277:C:OP1	17:AQ:41:LYS:HE3	2.12	0.50
1:AA:624:C:H4'	16:AP:11:SER:HB3	1.93	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
2:AB:20:GLU:HG2	2:AB:189:ASP:CG	2.32	0.50
3:AC:40:ARG:NE	14:AN:52:GLN:OE1	2.44	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:9:ARG:HA	10:AJ:68:HIS:O	2.11	0.50
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.12	0.50
10:AJ:43:ARG:CB	10:AJ:67:THR:HG23	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:71:LYS:O	11:AK:75:TYR:HD1	1.95	0.50
11:AK:108:ILE:HD12	11:AK:108:ILE:H	1.76	0.50
15:AO:11:VAL:O	15:AO:14:GLU:N	2.44	0.50
18:AR:38:GLU:H	18:AR:38:GLU:CD	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
32:B7:34:ARG:NE	35:BA:467:G:OP2	2.45	0.50
33:B8:13:ARG:NH1	47:BP:61:ARG:HD2	2.23	0.50
33:B8:35:GLN:C	33:B8:36:LYS:HG3	2.32	0.50
35:BA:244:A:N1	35:BA:255:A:H1'	2.27	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:565:C:C4'	35:BA:1253:A:N1	2.65	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
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: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:1820:U:N1	38:BD:202:LYS:HD3	2.27	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: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
36:BB:49:C:H2'	36:BB:50:G:H8	1.77	0.50
36:BB:115:G:H2'	36:BB:116:G:C8	2.36	0.50
37:BC:22:ILE:HD13	37:BC:189:ILE:HG22	1.94	0.50
37:BC:173:ALA:HB3	37:BC:192:PHE:CE1	2.47	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:N	46:BO:12:ASP:OD1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:12:ASP:OD2	46:BO:85:VAL:HG13	2.11	0.50
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
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:NH1	51:BT:41:ARG:HG2	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:101:PRO:HG2	57:BZ:135:GLU:O	2.11	0.50
57:BZ:128:VAL:HG13	57:BZ:133:ILE:HD13	1.93	0.50
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
1:AA:970:C:C2	1:AA:1231:G:H1'	2.46	0.49
1:AA:1151:A:H1'	1:AA:1152:A:H8	1.75	0.49
2:AB:9:GLU:HA	2:AB:12:GLU:HB2	1.93	0.49
2:AB:33:TYR:CD1	2:AB:43:ASP:OD1	2.64	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
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:6:ILE:O	8:AH:7:ALA:C	2.49	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
9:AI:9:ARG:CG	9:AI:14:VAL:HG22	2.42	0.49
9:AI:17:VAL:HG21	9:AI:80:GLY:HA3	1.94	0.49
9:AI:55:ALA:HB1	9:AI:59:PHE:CD2	2.46	0.49
13:AM:74:VAL:C	13:AM:76:ALA:H	2.14	0.49
15:AO:4:THR:HG22	15:AO:7:GLU:H	1.76	0.49
15:AO:24:SER:O	15:AO:25:THR:C	2.50	0.49
16:AP:75:ARG:N	16:AP:80:PHE:HE1	2.10	0.49
18:AR:34:TYR:HD1	18:AR:34:TYR:O	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
33:B8:11:LYS:HZ1	35:BA:243:U:H5''	1.76	0.49
33:B8:13:ARG:NH1	47:BP:61:ARG:O	2.45	0.49
35:BA:176:G:C5	35:BA:177:G:C6	3.00	0.49
35:BA:189:G:H2'	35:BA:205:G:H22	1.76	0.49
35:BA:444:C:H2'	35:BA:445:C:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:941:A:H4'	47:BP:35:HIS:CE1	2.47	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:O5'	35:BA:1657:C:H6	1.94	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
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
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:72:LYS:HD3	38:BD:97:TYR:CD2	2.47	0.49
38:BD:158:ALA:O	38:BD:161:THR:CB	2.60	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:110:LEU:HD23	40:BF:183:VAL:HG13	1.93	0.49
40:BF:127:GLU:CB	40:BF:196:LEU:HD12	2.41	0.49
42:BH:37:VAL:CG2	42:BH:72:ILE:HG12	2.43	0.49
47:BP:17:LYS:O	47:BP:17:LYS:HG2	2.12	0.49
50:BS:58:LEU:HG	50:BS:59:LYS:N	2.26	0.49
50:BS:106:ARG:NH1	50:BS:109:GLY:N	2.56	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: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
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.12	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
2:AB:112:VAL:O	2:AB:115:LEU:N	2.45	0.49
4:AD:63:LYS:O	4:AD:67:ILE:HG13	2.11	0.49
4:AD:98:GLU:HA	4:AD:103:ASN:HD21	1.75	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:746:A:C2'	35:BA:2612:C:H5''	2.42	0.49
35:BA:1052:C:O2'	35:BA:1053:C:P	2.70	0.49
35:BA:1188:U:C4'	53:BV:79:VAL:HG12	2.42	0.49
35:BA:1666:G:O3'	46:BO:6:THR:HG23	2.11	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:N3	35:BA:2173:A:H2'	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
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
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:48:GLU:HG3	48:BQ:51:ARG:HD3	1.93	0.49
48:BQ:141:GLN:C	57:BZ:53:ILE:HB	2.32	0.49
1:AA:321:A:C2	1:AA:333:G:C2	3.00	0.49
1:AA:719:C:O2	18:AR:50:ILE:N	2.45	0.49
1:AA:719:C:H2'	18:AR:50:ILE:HB	1.94	0.49
1:AA:867:G:H2'	1:AA:868:C:C6	2.47	0.49
1:AA:923:A:O2'	1:AA:1399:C:OP2	2.31	0.49
1:AA:951:G:C2	1:AA:1231:G:C2	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1059:C:O2'	1:AA:1060:C:H5'	2.12	0.49
1:AA:1307:U:N3	1:AA:1308:U:C4	2.80	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
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
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
20:AT:23:ARG:HH11	20:AT:23:ARG:HG2	1.76	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
24:AY:136:PRO:CB	24:AY:246:PHE:CZ	2.96	0.49
25:B0:4:LYS:HE3	48:BQ:82:ARG:HD2	1.94	0.49
27:B2:9:GLN:HG2	27:B2:56:GLN:HE22	1.76	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
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
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: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
35:BA:444:C:OP2	52:BU:2:PRO:HD3	2.12	0.49
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:C8	35:BA:783:A:C3'	2.95	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:H2'	35:BA:1307:A:N3	2.27	0.49
35:BA:1387:C:C2	35:BA:1388:G:C8	3.00	0.49
35:BA:1433:U:H2'	35:BA:1433:U:O2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2649:U:C2	35:BA:2672:G:N2	2.80	0.49
35:BA:2651:C:O2'	35:BA:2652:C:H5'	2.11	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
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: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
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
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:76:ALA:CB	51:BT:75:ILE:HD13	2.42	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
49:BR:114:VAL:O	49:BR:114:VAL:HG23	2.13	0.49
50:BS:18:ILE:H	50:BS:18:ILE:HD12	1.76	0.49
51:BT:61:PHE:CZ	51:BT:76:PHE:HB2	2.47	0.49
51:BT:67:SER:O	51:BT:68:TYR:O	2.30	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: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:O3'	1:AA:367:U:H2'	2.13	0.49
1:AA:356:A:N3	1:AA:368:U:O2'	2.40	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
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
4:AD:70:ILE:CG2	4:AD:71:SER:N	2.75	0.49
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.12	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
19:AS:23:ASN:HA	29:B4:47:GLN:CG	2.43	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:25:GLY:HA3	24:AY:29:ILE:CD1	2.42	0.49
24:AY:223:LEU:CD2	42:BH:97:ARG:HH22	2.24	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
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:214:G:H1'	35:BA:216:A:O2'	2.13	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
35:BA:1058:G:N2	35:BA:1080:C:H42	2.11	0.49
35:BA:1065:U:O2'	35:BA:1066:U:H5''	2.13	0.49
35:BA:1414:G:N2	35:BA:1589:C:C2	2.81	0.49
35:BA:1462:C:H5'	35:BA:2703:C:O4'	2.12	0.49
35:BA:1842:G:C2	35:BA:1901:A:C2	2.99	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:N3	35:BA:2657:A:H5'	2.26	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
36:BB:102:A:C2'	36:BB:103:G:H8	2.24	0.49
37:BC:8:ARG:C	37:BC:10:LEU:H	2.15	0.49
37:BC:46:LYS:HD2	37:BC:47:LEU:O	2.12	0.49
37:BC:62:VAL:O	37:BC:62:VAL:HG13	2.12	0.49
38:BD:24:ILE:HG23	38:BD:83:GLU:N	2.27	0.49
40:BF:26:ALA:O	40:BF:27:GLU:CG	2.55	0.49
40:BF:144:LYS:HG2	40:BF:144:LYS:O	2.12	0.49
41:BG:46:ALA:O	41:BG:47:LYS:HD2	2.11	0.49
42:BH:18:GLU:HB2	42:BH:25:LYS:O	2.13	0.49
42:BH:98:LEU:HD23	42:BH:125:VAL:HG23	1.95	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
47:BP:83:VAL:HG13	47:BP:114:ILE:CD1	2.42	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:3:THR:O	55:BX:4:ALA:HB2	2.13	0.49
55:BX:12:VAL:HA	55:BX:27:THR:O	2.12	0.49
1:AA:22:G:O2'	1:AA:913:A:N1	2.46	0.49
1:AA:23:C:O2'	1:AA:24:U:C5'	2.58	0.49
1:AA:109:A:C8	1:AA:327:A:O4'	2.65	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:570:G:H1'	1:AA:820:U:N3	2.27	0.49
1:AA:571:U:H5''	1:AA:819:A:C4	2.47	0.49
1:AA:672:U:O2'	1:AA:673:G:H8	1.96	0.49
1:AA:1048:G:N3	1:AA:1050:G:N7	2.60	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
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:HB3	4:AD:187:ARG:CZ	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:O	7:AG:54:THR:HG23	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:79:TYR:O	24:AY:80:HIS:C	2.51	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
25:B0:27:GLU:CD	25:B0:27:GLU:H	2.15	0.49
26:B1:67:ILE:C	26:B1:69:LYS:H	2.15	0.49
30:B5:43:HIS:N	30:B5:43:HIS:CD2	2.80	0.49
32:B7:2:LYS:HE3	32:B7:6:GLN:HG3	1.94	0.49
35:BA:143(A):C:H4'	55:BX:38:GLU:OE2	2.12	0.49
35:BA:895:U:H3'	35:BA:896:A:C5'	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:906:G:O2'	48:BQ:67:ARG:NH2	2.46	0.49
35:BA:1188:U:O2'	35:BA:1189:A:H5'	2.11	0.49
35:BA:1830:C:O5'	35:BA:1830:C:H6	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
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:N	53:BV:99:ILE:CD1	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:8:TYR:CB	57:BZ:38:TYR:CZ	2.95	0.49
57:BZ:144:LEU:HD22	57:BZ:144:LEU:N	2.27	0.49
1:AA:246:A:O2'	17:AQ:99:SER:HB2	2.12	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
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:1345:U:H5''	9:AI:120:ARG:HH11	1.78	0.49
1:AA:1372:U:P	9:AI:69:GLY:HA3	2.52	0.49
1:AA:1438:G:OP1	20:AT:34:LYS:HD3	2.12	0.49
1:AA:1452:C:OP2	1:AA:1456:G:O6	2.30	0.49
2:AB:22:LYS:CA	2:AB:22:LYS:CE	2.86	0.49
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	2.12	0.49
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.27	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
19:AS:60:VAL:HG13	19:AS:60:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:19:SER:O	20:AT:20:LEU:C	2.51	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
33:B8:21:LYS:HD2	35:BA:651:G:P	2.51	0.49
35:BA:81:G:N2	56:BY:2:ARG:NH1	2.57	0.49
35:BA:154:G:N1	35:BA:173:G:C6	2.80	0.49
35:BA:199:A:H61	35:BA:2433:A:C2'	2.24	0.49
35:BA:431:U:O5'	35:BA:431:U:H6	1.95	0.49
35:BA:636:G:H4'	35:BA:638:G:H4'	1.94	0.49
35:BA:745:G:C2'	35:BA:746:A:H5'	2.43	0.49
35:BA:861:A:H2'	35:BA:862:G:H5'	1.94	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: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: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
36:BB:76:G:O2'	57:BZ:19:ARG:NH2	2.45	0.49
37:BC:100:ILE:CG2	37:BC:127:MET:HG3	2.27	0.49
38:BD:65:ILE:O	38:BD:67:PHE:N	2.45	0.49
38:BD:153:ALA:HB1	38:BD:157:ARG:HH11	1.77	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
40:BF:184:TYR:HE1	47:BP:7:ARG:HH21	1.60	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BS:85:VAL:HG23	50:BS:86:ALA:H	1.77	0.49
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
1:AA:106:C:H42	20:AT:14:LYS:NZ	2.09	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
1:AA:1073:U:H6	1:AA:1073:U:O5'	1.96	0.49
1:AA:1117:G:H8	1:AA:1117:G:C5'	2.24	0.49
1:AA:1117:G:H1'	9:AI:106:ALA:HB1	1.95	0.49
1:AA:1199:U:C4'	10:AJ:54:PHE:CE2	2.92	0.49
1:AA:1348:U:H5'	9:AI:110:GLU:HB2	1.94	0.49
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.48	0.49
2:AB:20:GLU:HG3	2:AB:191:ASP:HB2	1.95	0.49
2:AB:22:LYS:HE3	2:AB:40:HIS:CE1	2.48	0.49
2:AB:32:ILE:CG2	2:AB:32:ILE:O	2.60	0.49
2:AB:146:GLN:O	2:AB:147:LYS:C	2.50	0.49
3:AC:71:ALA:O	3:AC:73:PRO:HD3	2.13	0.49
4:AD:65:ARG:HB2	4:AD:75:PHE:CZ	2.47	0.49
4:AD:199:ASN:OD1	4:AD:199:ASN:C	2.50	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
10:AJ:8:LEU:N	10:AJ:70:ARG:O	2.46	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
12:AL:34:ARG:HB3	12:AL:61:THR:HG21	1.94	0.49
24:AY:90:PRO:HD2	24:AY:99:THR:CG2	2.36	0.49
24:AY:505:ALA:C	24:AY:507:SER:H	2.15	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:116:C:O2'	35:BA:117:G:H5'	2.12	0.49
35:BA:153:C:N4	35:BA:154:G:O6	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1029:A:C2'	35:BA:1030:G:H5'	2.42	0.49
35:BA:1241:A:N7	35:BA:1242:A:C5	2.81	0.49
35:BA:1258:C:O4'	40:BF:84:VAL:HG21	2.13	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:1792:G:C6	35:BA:1793:C:C5	3.00	0.49
35:BA:1902:C:C5'	38:BD:246:PRO:CD	2.90	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
35:BA:2630:G:O2'	35:BA:2892:A:O2'	2.26	0.49
35:BA:2771:C:C2	35:BA:2772:C:C5	3.00	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
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
42:BH:38:SER:HB3	42:BH:64:LEU:HD11	1.89	0.49
42:BH:141:VAL:O	42:BH:145:ALA:N	2.43	0.49
47:BP:83:VAL:HG13	47:BP:114:ILE:HD12	1.93	0.49
47:BP:146:VAL:O	47:BP:148:LEU:HG	2.13	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:CD1	52:BU:17:ILE:H	2.26	0.49
53:BV:76:LYS:O	53:BV:79:VAL:HG23	2.13	0.49
56:BY:6:HIS:H	56:BY:6:HIS:HD2	1.60	0.49
57:BZ:37:VAL:HG23	57:BZ:38:TYR:N	2.28	0.49
57:BZ:146:ILE:O	57:BZ:147:GLY:O	2.30	0.49
1:AA:52:G:O2'	1:AA:53:A:H5'	2.13	0.49
1:AA:66:G:C4'	1:AA:173:U:C4	2.96	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: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
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

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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:N	9:AI:99:LEU:CD2	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:138:LEU:CA	24:AY:253:PRO:HG2	2.36	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: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
34:B9:31:LYS:HE2	35:BA:2478:A:H5'	1.93	0.49
35:BA:286:C:H42	35:BA:355:G:H1	1.61	0.49
35:BA:662:G:H4'	47:BP:19:VAL:O	2.13	0.49
35:BA:960:A:H5'	35:BA:2457:U:H4'	1.94	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:2052:G:C4'	39:BE:143:ASN:O	2.57	0.49
35:BA:2110:G:N2	35:BA:2180:U:H3	2.11	0.49
35:BA:2111:C:H1'	35:BA:2118:U:H4'	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:2875:C:H4'	51:BT:5:ALA:CB	2.43	0.49
37:BC:7:TYR:HA	37:BC:10:LEU:HD23	1.94	0.49
37:BC:10:LEU:CD1	37:BC:32:LEU:O	2.60	0.49
38:BD:267:SER:O	38:BD:268:ARG:HB2	2.12	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:69:ALA:O	41:BG:90:LEU:HD12	2.13	0.49
41:BG:125:PHE:N	41:BG:125:PHE:CD1	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
42:BH:87:LEU:HB2	42:BH:131:VAL:O	2.13	0.49
45:BN:15:LEU:O	45:BN:136:GLU:HA	2.12	0.49
45:BN:132:ALA:O	45:BN:133:GLN:HB2	2.13	0.49
47:BP:9:ASN:O	47:BP:10:PRO:C	2.51	0.49
47:BP:79:ARG:O	47:BP:79:ARG:HG3	2.12	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:27:THR:HG23	51:BT:28:VAL:N	2.27	0.49
51:BT:120:ARG:HA	51:BT:123:GLN:CD	2.33	0.49
53:BV:19:LYS:HB3	53:BV:94:LEU:O	2.13	0.49
57:BZ:33:LEU:CG	57:BZ:34:ASN:N	2.75	0.49
57:BZ:158:PRO:O	57:BZ:159:PRO:C	2.51	0.49
1:AA:740:U:H4'	15:AO:42:HIS:ND1	2.27	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1530:G:H2'	1:AA:1531:A:H8	1.77	0.49
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: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
8:AH:100:ILE:O	8:AH:102:ARG:NH1	2.46	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:O	11:AK:105:VAL:HG23	2.13	0.49
14:AN:54:PRO:O	14:AN:56:VAL:HG23	2.13	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
30:B5:28:PRO:HG2	54:BW:35:ILE:HD13	1.94	0.49
31:B6:45:LYS:N	31:B6:45:LYS:CD	2.74	0.49
33:B8:6:THR:OG1	35:BA:243:U:OP1	2.26	0.49
33:B8:38:GLY:O	33:B8:42:ARG:HB2	2.12	0.49
35:BA:78:A:H8	35:BA:78:A:O5'	1.96	0.49
35:BA:151:C:O2'	35:BA:152:G:H5'	2.13	0.49
35:BA:259:G:H21	35:BA:621:A:H8	1.61	0.49
35:BA:324:A:H2'	35:BA:325:G:O4'	2.12	0.49
35:BA:602:G:H2'	35:BA:602:G:N3	2.28	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
35:BA:1060:U:H3'	44:BK:1:UNK:CB	2.42	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: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:2221:G:N2	38:BD:151:LYS:HE3	2.27	0.49
35:BA:2232:U:O2'	35:BA:2233:U:H5'	2.13	0.49
35:BA:2603:G:C2	35:BA:2604:U:N1	2.81	0.49
38:BD:9:TYR:OH	38:BD:13:ARG:NE	2.45	0.49
38:BD:71:ASP:HB3	38:BD:103:ARG:NH1	2.22	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:224:ALA:CB	38:BD:233:HIS:HB3	2.42	0.49
41:BG:139:LEU:C	41:BG:141:PHE:H	2.15	0.49
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
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:CD1	52:BU:79:PHE:C	2.86	0.49
54:BW:5:ALA:HB3	54:BW:105:VAL:H	1.77	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:141:A:H4'	1:AA:182:U:C1'	2.42	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
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:1465:C:H2'	1:AA:1466:C:O4'	2.12	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
2:AB:222:ILE:H	2:AB:222:ILE:CD1	2.25	0.49
3:AC:55:VAL:O	3:AC:55:VAL:HG12	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:79:TYR:HE2	24:AY:269:LEU:HD13	1.78	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
33:B8:56:GLU:OE1	33:B8:56:GLU:N	2.45	0.49
35:BA:625:G:O2'	35:BA:626:U:H5'	2.12	0.49
35:BA:680:G:N2	35:BA:798:G:C4	2.80	0.49
35:BA:724:U:O2'	35:BA:725:G:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
35:BA:1350:C:C4	35:BA:1382:G:C2	3.01	0.49
35:BA:1598:C:C5'	55:BX:36:LYS:HD3	2.43	0.49
35:BA:1842:G:N3	35:BA:1901:A:C2	2.80	0.49
35:BA:1844:C:C2'	35:BA:1845:G:C5'	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:H4'	35:BA:2713:A:OP2	2.13	0.49
35:BA:2864:G:O2'	35:BA:2865:U:H5'	2.13	0.49
36:BB:104:U:O2'	57:BZ:72:ARG:CG	2.59	0.49
40:BF:53:THR:O	40:BF:55:GLY:N	2.46	0.49
40:BF:205:ARG:O	40:BF:205:ARG:CG	2.60	0.49
41:BG:60:LEU:HD12	41:BG:68:PRO:HG3	1.95	0.49
42:BH:46:GLU:O	42:BH:47:GLU:HB2	2.11	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
46:BO:8:LEU:HD23	46:BO:84:ALA:HB2	1.94	0.49
46:BO:43:VAL:HG23	46:BO:56:ASP:O	2.12	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:8:LYS:O	51:BT:11:GLU:OE1	2.30	0.49
51:BT:27:THR:HG23	51:BT:28:VAL:H	1.78	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
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: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
57:BZ:126:VAL:HA	57:BZ:163:LEU:HB2	1.94	0.49
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
1:AA:722:A:H2'	1:AA:722:A:N3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1112:C:O2	3:AC:179:ARG:HG2	2.13	0.48
11:AK:108:ILE:N	11:AK:108:ILE:CD1	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:9:VAL:HG12	19:AS:11:VAL:CG1	2.25	0.48
19:AS:51:VAL:CA	19:AS:58:VAL:HG22	2.43	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
26:B1:14:VAL:HG22	35:BA:188:G:H5'	1.94	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:62:C:O5'	35:BA:62:C:H6	1.95	0.48
35:BA:94(A):G:C2'	35:BA:95:G:O4'	2.60	0.48
35:BA:185:U:O2'	35:BA:186:G:H5'	2.12	0.48
35:BA:245:G:O2'	35:BA:246:C:H5'	2.13	0.48
35:BA:447:A:C5	35:BA:454:A:N7	2.81	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:998:C:C2'	35:BA:999:U:O5'	2.61	0.48
35:BA:999:U:C5	35:BA:1154:G:C6	3.01	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:1914:C:O2	35:BA:1914:C:C4'	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:2794:C:N4	35:BA:2801(A):A:H61	2.11	0.48
37:BC:99:ILE:HG22	37:BC:99:ILE:O	2.13	0.48
37:BC:114:VAL:HG12	37:BC:144:THR:HG22	1.95	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:O	48:BQ:66:ILE:HG13	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:135:C:O2	16:AP:1:MET:N	2.39	0.48
1:AA:368:U:H6	24:AY:370:HIS:HE2	1.58	0.48
1:AA:538:G:H5''	12:AL:114:LYS:CG	2.42	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: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
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:70:ILE:HG22	4:AD:71:SER:O	2.13	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
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:15:THR:O	24:AY:107:ASP:N	2.36	0.48
24:AY:158:VAL:O	24:AY:163:LYS:N	2.47	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:141:A:C6	35:BA:142:A:C6	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: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:H6	35:BA:691:C:O5'	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
35:BA:1087:G:C4	35:BA:1089:G:N7	2.81	0.48
35:BA:1382:G:H4'	35:BA:1573:G:N3	2.28	0.48
35:BA:1419:A:O2'	35:BA:1420:U:H5''	2.13	0.48
35:BA:1539:G:C2	35:BA:1540:U:C1'	2.83	0.48
35:BA:1624:G:C6	35:BA:1625:C:C4	3.01	0.48
35:BA:2185:C:H2'	35:BA:2185:C:O2	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
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
36:BB:107:G:C2	36:BB:108:U:C5	3.02	0.48
38:BD:31:LYS:HG2	38:BD:33:LEU:HD22	1.95	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
40:BF:6:VAL:O	40:BF:7:TYR:HB2	2.13	0.48
41:BG:78:SER:O	41:BG:80:PHE:N	2.47	0.48
41:BG:180:PHE:O	41:BG:182:LYS:N	2.45	0.48
47:BP:65:ARG:O	47:BP:68:GLN:OE1	2.30	0.48
47:BP:77:ARG:O	47:BP:77:ARG:HG3	2.12	0.48
47:BP:122:PRO:HG3	47:BP:140:ALA:O	2.13	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:333:G:H2'	1:AA:334:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:925:G:H1'	1:AA:1502:A:N9	2.27	0.48
1:AA:1203:C:C4	1:AA:1204:A:N7	2.81	0.48
1:AA:1248:A:C5	1:AA:1249:C:C5	3.01	0.48
2:AB:36:ARG:O	2:AB:39:ILE:N	2.39	0.48
2:AB:201:ILE:HG21	2:AB:214:ILE:HG21	1.93	0.48
3:AC:31:HIS:O	3:AC:32:LEU:C	2.52	0.48
3:AC:120:VAL:O	3:AC:121:ALA:C	2.51	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:22:PRO:O	24:AY:23:ASP:C	2.51	0.48
24:AY:155:LEU:C	24:AY:158:VAL:HG23	2.33	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
29:B4:6:HIS:HB3	41:BG:67:LYS:CE	2.43	0.48
31:B6:25:LYS:HD2	35:BA:2285:C:N4	2.28	0.48
34:B9:8:LYS:HE2	34:B9:8:LYS:HB3	1.72	0.48
34:B9:8:LYS:HE3	35:BA:1032:A:OP1	2.14	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
35:BA:831:G:C6	35:BA:832:G:N7	2.81	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:1667:G:O2'	35:BA:1991:U:O4	2.25	0.48
35:BA:1786:A:C6	35:BA:1938:A:H2	2.29	0.48
35:BA:2052:G:O3'	39:BE:143:ASN:O	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
36:BB:8:U:H5'	36:BB:8:U:H6	1.79	0.48
37:BC:28:LEU:HD21	37:BC:222:VAL:HG22	1.95	0.48
37:BC:100:ILE:O	37:BC:104:LEU:HG	2.13	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
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:51:ARG:CZ	41:BG:53:LEU:HD21	2.44	0.48
41:BG:167:GLU:CD	41:BG:167:GLU:H	2.17	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:22:VAL:HG22	53:BV:92:THR:O	2.13	0.48
53:BV:91:TYR:CD1	53:BV:91:TYR:C	2.86	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
1:AA:965:A:OP1	1:AA:1198:G:H5''	2.11	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: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
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.75	0.48
4:AD:187:ARG:HH11	4:AD:187:ARG:CB	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: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
13:AM:107:ALA:O	13:AM:111:LYS:CD	2.62	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:HB2	20:AT:57:ARG:HH11	1.77	0.48
22:AV:53:G:N2	22:AV:61:C:H42	2.11	0.48
24:AY:10:VAL:C	24:AY:279:PRO:CD	2.81	0.48
24:AY:26:LYS:HG3	24:AY:88:ASP:OD1	2.13	0.48
24:AY:120:GLU:O	24:AY:121:ASP:C	2.51	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
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:7:G:C8	35:BA:7:G:O5'	2.66	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:589:C:H42	35:BA:668:G:H1	1.61	0.48
35:BA:590:A:C2	35:BA:591:C:C2	3.02	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:N3	35:BA:2392:A:H5'	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
36:BB:76:G:C5	36:BB:77:U:C5	3.01	0.48
36:BB:111:G:H2'	36:BB:112:U:C5'	2.43	0.48
37:BC:14:VAL:CG2	37:BC:32:LEU:HD21	2.43	0.48
37:BC:145:VAL:HG12	37:BC:145:VAL:O	2.14	0.48
37:BC:161:ILE:O	37:BC:161:ILE:HD12	2.13	0.48
38:BD:33:LEU:CD2	38:BD:102:LYS:HB2	2.34	0.48
38:BD:80:ALA:CB	38:BD:94:LEU:HD13	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:148:GLU:C	38:BD:189:CYS:SG	2.92	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:65:LYS:HD3	45:BN:69:GLN:NE2	2.28	0.48
45:BN:116:LEU:O	45:BN:117:PHE:C	2.51	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: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
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
2:AB:76:GLN:OE1	2:AB:206:ASP:O	2.32	0.48
2:AB:177:ALA:CB	2:AB:184:VAL:HG22	2.43	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:O	24:AY:308:ASP:OD1	2.32	0.48
24:AY:310:LYS:C	24:AY:311:HIS:CD2	2.87	0.48
26:B1:14:VAL:HG21	35:BA:188:G:H5'	1.91	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:B5:8:LYS:HE2	35:BA:2054:A:H2'	1.95	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:54:G:OP2	35:BA:54:G:C8	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:58:G:N3	35:BA:73:A:C2	2.79	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:742:G:C5'	35:BA:1675:C:O2'	2.61	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
35:BA:1119:C:H2'	35:BA:1120:G:H8	1.77	0.48
35:BA:1337:G:N7	55:BX:62:LYS:NZ	2.61	0.48
35:BA:1604:C:O2'	35:BA:1605:C:H5'	2.14	0.48
35:BA:1832:C:H2'	35:BA:1833:U:O4'	2.14	0.48
35:BA:1890:A:H8	35:BA:1890:A:O5'	1.97	0.48
35:BA:1909:C:N4	35:BA:1921:G:H1	2.11	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:2848:G:C8	51:BT:97:ALA:HB2	2.49	0.48
35:BA:2873:A:H3'	35:BA:2874:C:C5	2.48	0.48
36:BB:18:G:H2'	36:BB:19:G:C8	2.48	0.48
38:BD:14:ARG:O	38:BD:14:ARG:HG3	2.12	0.48
38:BD:97:TYR:C	38:BD:99:ASP:N	2.63	0.48
38:BD:186:HIS:NE2	38:BD:188:GLU:CG	2.77	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:HG22	50:BS:18:ILE:O	2.14	0.48
51:BT:53:ARG:NH1	51:BT:53:ARG:HB3	2.27	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
57:BZ:25:PRO:HA	57:BZ:38:TYR:HB2	1.95	0.48
57:BZ:141:VAL:HA	57:BZ:144:LEU:CD2	2.31	0.48
1:AA:10:A:OP2	5:AE:126:ARG:HD2	2.14	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
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:1484:C:O4'	35:BA:1960:A:O2'	2.31	0.48
2:AB:141:GLU:O	2:AB:145:LEU:N	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:9:VAL:HG13	19:AS:39:THR:CB	2.44	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
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: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
35:BA:1131:G:N7	35:BA:2025:C:C1'	2.76	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:1786:A:C4	35:BA:1938:A:N1	2.81	0.48
35:BA:1935:G:H3'	35:BA:1962:C:H42	1.79	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
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:45:ASN:ND2	38:BD:46:GLN:N	2.61	0.48
38:BD:211:ARG:O	38:BD:214:TRP:N	2.47	0.48
39:BE:9:VAL:HG11	39:BE:25:VAL:CB	2.43	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

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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: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
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.61	0.48
45:BN:22:THR:N	45:BN:61:ARG:HB2	2.29	0.48
48:BQ:101:ARG:NH1	48:BQ:101:ARG:HG3	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:NE	51:BT:13:ARG:CA	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: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:109:A:C6	1:AA:327:A:C5	3.01	0.48
1:AA:115:G:O2'	1:AA:116:A:OP2	2.31	0.48
1:AA:901:A:H2'	1:AA:902:G:C5'	2.43	0.48
1:AA:1071:C:H2'	1:AA:1072:G:C8	2.48	0.48
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.79	0.48
1:AA:1305:G:H5''	21:AU:5:ASP:N	2.29	0.48
2:AB:15:VAL:CG2	2:AB:209:ARG:HE	2.27	0.48
2:AB:61:LEU:O	2:AB:62:ALA:C	2.51	0.48
2:AB:208:ILE:O	2:AB:210:SER:N	2.47	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:40:ALA:HB1	7:AG:44:TYR:HE2	1.74	0.48
7:AG:136:LYS:NZ	7:AG:140:ASP:OD1	2.40	0.48
13:AM:81:LEU:C	13:AM:93:ARG:HH11	2.17	0.48
17:AQ:77:VAL:HG12	17:AQ:77:VAL:O	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
24:AY:68:ILE:HB	24:AY:92:HIS:CE1	2.48	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
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:197:A:H5'	35:BA:197:A:H8	1.77	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
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:1799:G:H5'	35:BA:1819:A:N6	2.29	0.48
35:BA:1811:G:H2'	35:BA:1812:A:H8	1.78	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: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
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:102:G:H2'	1:AA:103:C:C6	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
1:AA:1001(A):G:C8	1:AA:1002:G:C5	3.01	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

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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:36:ASP:HA	3:AC:39:ILE:HD12	1.95	0.48
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.14	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
5:AE:152:ARG:CZ	8:AH:44:PHE:CE1	2.97	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
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:141:A:C2	35:BA:142:A:N1	2.81	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
35:BA:907:U:O2	35:BA:907:U:H2'	2.13	0.48
35:BA:1113:U:O5'	35:BA:1113:U:H6	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2645:G:C8	35:BA:2645:G:OP2	2.63	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:84:VAL:O	40:BF:85:GLY:C	2.48	0.48
40:BF:119:ARG:HG2	40:BF:119:ARG:NH1	2.27	0.48
41:BG:181:ARG:O	41:BG:182:LYS:OXT	2.32	0.48
42:BH:83:TYR:O	42:BH:84:SER:O	2.31	0.48
42:BH:106:THR:HG21	42:BH:112:PRO:C	2.29	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
45:BN:108:PRO:HG2	45:BN:113:GLY:CA	2.43	0.48
46:BO:68:GLU:OE1	46:BO:78:ARG:HD3	2.13	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
47:BP:106:LEU:HD11	47:BP:112:LEU:CG	2.39	0.48
48:BQ:87:LYS:HG2	48:BQ:88:GLY:O	2.14	0.48
48:BQ:113:GLN:O	48:BQ:114:ALA:C	2.52	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:41:ARG:HH11	51:BT:41:ARG:CG	2.27	0.48
51:BT:102:ILE:O	51:BT:102:ILE:HD12	2.14	0.48
55:BX:20:GLY:C	55:BX:22:ALA:H	2.17	0.48
57:BZ:19:ARG:HH12	57:BZ:84:GLU:CB	2.25	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
1:AA:8:A:C6	4:AD:209:ARG:HB3	2.49	0.48
1:AA:126:G:H2'	1:AA:127:G:O4'	2.14	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
1:AA:1060:C:C5'	14:AN:45:ARG:NH2	2.77	0.48
1:AA:1407:C:C2'	1:AA:1408:A:H5'	2.36	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
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

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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:23:ASP:OD1	24:AY:23:ASP:N	2.47	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:513:LEU:HD22	24:AY:517:ARG:NE	2.29	0.48
26:B1:48:LYS:HD2	26:B1:48:LYS:HA	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
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.47	0.48
35:BA:388:G:H5'	35:BA:389:G:OP2	2.13	0.48
35:BA:441:U:C2'	40:BF:46:ARG:HE	2.26	0.48
35:BA:660:G:H5'	40:BF:99:TYR:CE1	2.49	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:1429:G:C4'	35:BA:1568:G:HO2'	2.26	0.48
35:BA:1542:A:H3'	35:BA:1542:A:C8	2.49	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
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:45:ALA:N	37:BC:171:ILE:O	2.47	0.48
37:BC:129:ARG:O	37:BC:129:ARG:HG3	2.12	0.48
38:BD:71:ASP:CG	38:BD:103:ARG:NH1	2.65	0.48
40:BF:81:PRO:CG	40:BF:82:ILE:H	2.27	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
41:BG:7:LEU:O	41:BG:10:LYS:N	2.46	0.48
41:BG:43:LEU:HD11	41:BG:153:ARG:HG3	1.96	0.48
41:BG:125:PHE:CD2	41:BG:131:TYR:HD1	2.30	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:8:LYS:H	56:BY:8:LYS:CD	2.18	0.48
56:BY:68:HIS:C	56:BY:70:SER:H	2.16	0.48
1:AA:42:G:H2'	1:AA:43:C:H6	1.78	0.48
1:AA:277:C:OP2	17:AQ:41:LYS:NZ	2.45	0.48
1:AA:377:G:H2'	1:AA:378:G:C8	2.49	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:711:G:H4'	38:BD:138:VAL:CG1	2.43	0.48
1:AA:735:C:H2'	1:AA:736:C:C5	2.47	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:1190:G:OP1	3:AC:5:ILE:HD13	2.14	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
2:AB:14:GLY:O	2:AB:15:VAL:HG13	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:80:VAL:CG2	11:AK:104:GLN:O	2.61	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
13:AM:73:GLU:O	13:AM:76:ALA:CB	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:398:PHE:C	24:AY:399:ARG:HG2	2.30	0.48
24:AY:498:GLY:O	24:AY:499:ASP:HB2	2.13	0.48
25:B0:16:SER:OG	35:BA:2262:U:OP2	2.28	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
29:B4:5:ILE:O	41:BG:67:LYS:HE2	2.14	0.48
30:B5:8:LYS:NZ	35:BA:2055:C:OP1	2.45	0.48
32:B7:9:ARG:HG3	32:B7:9:ARG:NH1	2.29	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
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
35:BA:2247:A:C2	35:BA:2257:U:O2	2.67	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
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
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
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:126:G:H1	1:AA:235:C:H42	1.62	0.47
1:AA:186:C:H6	1:AA:186:C:O5'	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AA:945:G:N2	1:AA:1337:G:N2	2.61	0.47
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
5:AE:36:ASP:OD1	5:AE:40:ARG:HB2	2.14	0.47
5:AE:115:VAL:HG11	5:AE:118:ILE:HG22	1.97	0.47
6:AF:33:TYR:CE2	6:AF:75:LEU:HA	2.49	0.47
7:AG:37:ASN:ND2	9:AI:40:LEU:HD23	2.28	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
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:25:GLY:O	24:AY:29:ILE:HB	2.14	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: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
34:B9:19:ARG:NH1	35:BA:2755:C:H2'	2.29	0.47
35:BA:90:U:O2	35:BA:90:U:C2'	2.61	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:1464:C:O2'	35:BA:1528:A:C8	2.66	0.47
35:BA:1773:A:N3	35:BA:1978:A:C2	2.82	0.47
35:BA:1787:A:C2	35:BA:1788:C:C4	3.02	0.47
35:BA:1799:G:N2	35:BA:1819:A:OP2	2.36	0.47
35:BA:1812:A:C2	35:BA:1813:G:C4	3.02	0.47
35:BA:2147:G:C2'	35:BA:2148:G:C5'	2.89	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:28:G:C2	1:AA:556:C:N3	2.82	0.47
1:AA:113:G:C2	1:AA:114:U:C2	3.02	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:690:G:N7	11:AK:55:LYS:NZ	2.62	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
1:AA:1009:G:C6	1:AA:1021:G:C6	3.02	0.47
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.15	0.47
1:AA:1015:A:C5	1:AA:1016:A:C5	3.02	0.47
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.78	0.47
1:AA:1149:C:OP1	9:AI:14:VAL:HG21	2.14	0.47
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.15	0.47
2:AB:7:VAL:HA	2:AB:11:LEU:HD12	1.96	0.47
2:AB:8:LYS:HZ3	2:AB:217:ARG:NH1	2.12	0.47
2:AB:49:GLU:O	2:AB:52:GLU:HB3	2.14	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
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.14	0.47
10:AJ:8:LEU:HB2	10:AJ:70:ARG:HB2	1.95	0.47
10:AJ:12:ASP:C	10:AJ:14:LYS:N	2.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:40:LEU:N	10:AJ:40:LEU:CD2	2.72	0.47
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
14:AN:42:ILE:HD13	14:AN:42:ILE:HA	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:O	21:AU:20:LYS:CG	2.61	0.47
22:AV:21:A:C5	22:AV:46:G:C6	3.02	0.47
22:AV:39:C:C4	22:AV:40:C:C5	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:14:A:N6	35:BA:15:G:C2	2.81	0.47
35:BA:271(C):C:C2	35:BA:271(D):G:C8	3.03	0.47
35:BA:969:U:C4	35:BA:970:C:N4	2.83	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:H2'	35:BA:1512:U:O2	2.13	0.47
35:BA:1800:C:OP1	38:BD:266:SER:HB2	2.14	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:2739:U:C5	35:BA:2763:G:C6	3.02	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
39:BE:1:MET:O	39:BE:3:GLY:N	2.47	0.47
41:BG:25:TYR:CE2	41:BG:32:PRO:HD2	2.49	0.47
41:BG:125:PHE:O	41:BG:128:ARG:O	2.31	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:146:TYR:O	41:BG:149:VAL:HG22	2.14	0.47
50:BS:39:ILE:HD12	50:BS:73:LEU:HD21	1.96	0.47
52:BU:65:ILE:HG12	52:BU:96:ALA:HB1	1.95	0.47
52:BU:93:LYS:H	52:BU:93:LYS:CD	2.27	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:68:G:C2	1:AA:69:G:H1'	2.49	0.47
1:AA:106:C:H42	20:AT:14:LYS:HZ3	1.61	0.47
1:AA:107:G:H5'	1:AA:379:C:OP1	2.14	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:H2'	1:AA:346:G:N3	2.30	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:896:C:C3'	1:AA:896:C:C6	2.96	0.47
1:AA:958:A:H2'	1:AA:985:C:O2'	2.14	0.47
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.80	0.47
1:AA:1117:G:O3'	9:AI:104:ARG:NE	2.47	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
2:AB:98:LEU:H	2:AB:98:LEU:HG	1.38	0.47
3:AC:34:LEU:HD21	3:AC:38:ARG:CZ	2.44	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
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
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:HH11	14:AN:12:ARG:CB	2.27	0.47
15:AO:9:GLN:O	15:AO:12:ILE:HB	2.14	0.47
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.15	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:78:PRO:HB3	24:AY:83:LEU:HA	1.97	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
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: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:953:A:N6	35:BA:964:C:H42	2.08	0.47
35:BA:958:U:C6	35:BA:958:U:C3'	2.97	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
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:27:UNK:O	43:BJ:83:UNK:N	2.47	0.47
43:BJ:72:UNK:O	43:BJ:73:UNK:CB	2.62	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:47:C:H5	1:AA:366:C:OP2	1.96	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:939:G:H2'	1:AA:940:C:H6	1.78	0.47
1:AA:1048:G:OP1	14:AN:4:LYS:N	2.47	0.47
1:AA:1074:G:H2'	1:AA:1075:C:C6	2.48	0.47
2:AB:9:GLU:C	2:AB:12:GLU:HB2	2.34	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: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
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
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:78:PRO:CB	24:AY:83:LEU:CD2	2.91	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
29:B4:5:ILE:O	41:BG:67:LYS:CD	2.63	0.47
35:BA:81:G:H2'	35:BA:82:G:C8	2.50	0.47
35:BA:132:G:H2'	35:BA:133:C:C6	2.49	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:861:A:N3	35:BA:862:G:O4'	2.48	0.47
35:BA:866:A:C2	35:BA:914:C:C6	3.02	0.47
35:BA:910:A:H2'	35:BA:911:A:C8	2.49	0.47
35:BA:1509(B):A:O2'	35:BA:1510:G:H5'	2.15	0.47
35:BA:1549:C:H5''	35:BA:1549:C:C6	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
36:BB:45:A:H2'	36:BB:45:A:N3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:107:G:O2'	36:BB:108:U:H5'	2.15	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: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
40:BF:154:VAL:CG1	40:BF:155:LEU:N	2.75	0.47
41:BG:28:VAL:O	41:BG:29:TRP:CD2	2.67	0.47
41:BG:178:PHE:HB3	41:BG:180:PHE:HE1	1.79	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:58:C:O5'	1:AA:58:C:H6	1.97	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: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:620:C:C1'	4:AD:135:LEU:HG	2.44	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
1:AA:1251:A:O2'	1:AA:1370:G:H5'	2.15	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:59:ARG:NH1	4:AD:59:ARG:CG	2.77	0.47
4:AD:127:THR:OG1	4:AD:149:ALA:HB2	2.14	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:65:C:O2'	35:BA:66:C:H5'	2.15	0.47
35:BA:406:G:H2'	35:BA:407:G:H8	1.78	0.47
35:BA:482:A:H4'	56:BY:47:LYS:CD	2.45	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
35:BA:974:G:C6	35:BA:1186:G:O6	2.67	0.47
35:BA:1308:A:C2	35:BA:1611:C:H1'	2.49	0.47
35:BA:1509(B):A:C2'	35:BA:1510:G:H5'	2.45	0.47
35:BA:1791:A:N1	35:BA:1829:A:O4'	2.47	0.47
35:BA:1794:U:C2	35:BA:1795:C:C5	3.03	0.47
35:BA:1798:U:OP1	38:BD:260:ARG:HB3	2.15	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:H3'	35:BA:2453:A:H8	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:2820:A:O2'	39:BE:191:PRO:HG3	2.13	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
38:BD:29:PRO:HG2	38:BD:29:PRO:O	2.15	0.47
38:BD:271:ILE:HG13	38:BD:272:ALA:N	2.30	0.47
39:BE:13:ARG:CA	39:BE:22:PRO:HA	2.45	0.47
39:BE:105:THR:HG23	39:BE:166:THR:OG1	2.15	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
40:BF:111:ALA:CB	40:BF:206:ILE:HG21	2.30	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)
41:BG:76:SER:HB3	41:BG:83:ARG:CB	2.42	0.47
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:ND1	48:BQ:57:HIS:C	2.67	0.47
51:BT:24:PRO:HA	51:BT:49:VAL:HG13	1.96	0.47
51:BT:28:VAL:HG13	51:BT:46:GLU:HA	1.95	0.47
51:BT:101:PHE:CE1	51:BT:102:ILE:HG22	2.49	0.47
51:BT:111:ARG:HH11	51:BT:111:ARG:HG2	1.80	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
1:AA:13:U:O2'	1:AA:14:U:H5'	2.13	0.47
1:AA:64:G:H5''	1:AA:65:U:OP1	2.15	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: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
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:H5''	1:AA:1321:C:H6	1.79	0.47
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.45	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
2:AB:97:TRP:CZ3	2:AB:172:ILE:HG22	2.46	0.47
2:AB:180:LEU:O	2:AB:182:ILE:N	2.48	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
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:C	20:AT:104:LEU:CD2	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:244:A:H4'	47:BP:74:GLU:HB2	1.97	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
35:BA:1011:G:HO2'	35:BA:1013:C:H6	1.62	0.47
35:BA:1068:G:OP2	44:BK:22:UNK:C	2.63	0.47
35:BA:1252:G:C1'	52:BU:33:ARG:HD3	2.44	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:H8	35:BA:2439:A:H5''	1.79	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
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:35:LYS:O	38:BD:62:TYR:O	2.32	0.47
38:BD:267:SER:HB3	38:BD:270:ILE:HD11	1.97	0.47
39:BE:48:GLN:NE2	39:BE:64:LYS:NZ	2.62	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
52:BU:112:ARG:NH2	53:BV:46:VAL:HG21	2.30	0.47
53:BV:21:ARG:HG2	53:BV:91:TYR:CD1	2.50	0.47
57:BZ:127:LYS:NZ	57:BZ:127:LYS:CB	2.78	0.47
1:AA:39:G:C2'	1:AA:40:C:H5'	2.44	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:279:A:O2'	17:AQ:95:TYR:HE1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:551:U:HO2'	1:AA:552:U:H5'	1.76	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: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:896:C:H2'	1:AA:897:C:C5'	2.44	0.47
1:AA:938:A:O3'	7:AG:95:ARG:NH1	2.47	0.47
1:AA:954:G:H4'	13:AM:120:LYS:HD3	1.97	0.47
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.43	0.47
1:AA:979:C:O2'	14:AN:19:ARG:NH2	2.47	0.47
1:AA:986:A:C6	1:AA:1220:G:C6	3.03	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:1288:A:H2'	1:AA:1289:A:C8	2.49	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: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
2:AB:165:VAL:CG2	2:AB:166:ASP:H	2.26	0.47
2:AB:189:ASP:HB3	2:AB:205:ASP:OD2	2.14	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
4:AD:11:LEU:HD13	4:AD:66:ARG:CZ	2.44	0.47
4:AD:64:LEU:CD2	4:AD:203:VAL:HG21	2.44	0.47
4:AD:188:LEU:O	4:AD:189:PRO:O	2.31	0.47
5:AE:12:LEU:CD2	5:AE:13:ILE:N	2.65	0.47
5:AE:18:ARG:HG3	5:AE:25:ARG:O	2.14	0.47
5:AE:76:ILE:HG13	5:AE:77:PRO:CD	2.44	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
7:AG:84:ASN:ND2	7:AG:84:ASN:C	2.68	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
8:AH:63:LEU:HD22	8:AH:63:LEU:H	1.75	0.47
8:AH:111:ILE:O	8:AH:112:LEU:HB3	2.15	0.47
10:AJ:78:ASN:O	10:AJ:80:LYS:N	2.46	0.47
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:6:THR:OG1	12:AL:9:GLN:NE2	2.37	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
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.30	0.47
13:AM:42:ALA:O	13:AM:43:THR:C	2.52	0.47
14:AN:57:ARG:HG2	14:AN:57:ARG:NH1	2.29	0.47
16:AP:67:THR:CG2	16:AP:68:ASP:H	2.20	0.47
18:AR:34:TYR:CD1	18:AR:34:TYR:O	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:21:A:C6	22:AV:46:G:C5	3.02	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:7:LEU:CD2	24:AY:292:SER:HB3	2.44	0.47
24:AY:116:ALA:O	24:AY:149:ARG:HD2	2.13	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
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
25:B0:4:LYS:HD3	35:BA:2253:G:O6	2.15	0.47
25:B0:69:PHE:N	25:B0:69:PHE:HD1	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
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.83	0.47
30:B5:16:ARG:CG	30:B5:17:ASP:N	2.73	0.47
30:B5:44:THR:CG2	30:B5:45:VAL:N	2.78	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
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
34:B9:19:ARG:C	34:B9:21:GLY:H	2.18	0.47
35:BA:120:U:C6	35:BA:149:A:C2	3.02	0.47
35:BA:225:A:O2'	35:BA:226:G:H5'	2.15	0.47
35:BA:354:G:C2	35:BA:355:G:C4	3.02	0.47
35:BA:472:A:H5'	35:BA:472:A:C8	2.46	0.47
35:BA:564:C:OP1	53:BV:77:ALA:HB2	2.15	0.47
35:BA:644:A:C2	35:BA:2369:A:O2'	2.65	0.47
35:BA:661:C:H2'	35:BA:662:G:H8	1.76	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

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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:830:G:C4	35:BA:2448:A:C6	3.03	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:986:C:H2'	35:BA:987:G:H5'	1.97	0.47
35:BA:987:G:H2'	35:BA:988:A:C8	2.49	0.47
35:BA:998:C:H2'	35:BA:999:U:O5'	2.14	0.47
35:BA:1252:G:O4'	52:BU:33:ARG:CD	2.55	0.47
35:BA:1260:G:C4	35:BA:1261:C:C5	3.02	0.47
35:BA:1270:C:O2'	35:BA:1648:C:OP2	2.25	0.47
35:BA:1298:C:O4'	35:BA:1302:A:N1	2.47	0.47
35:BA:1304:C:C2	35:BA:1305:C:C5	3.03	0.47
35:BA:1380:G:H2'	35:BA:1381:G:C8	2.49	0.47
35:BA:1423:G:H5''	35:BA:1492:G:O2'	2.14	0.47
35:BA:1452:A:HO2'	35:BA:1453:U:H6	1.61	0.47
35:BA:1470:G:N2	35:BA:1523:U:C4	2.83	0.47
35:BA:1567:A:C5	38:BD:84:TYR:CD2	3.02	0.47
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.14	0.47
35:BA:1800:C:OP1	38:BD:266:SER:CB	2.63	0.47
35:BA:1880:C:H2'	35:BA:1881:C:C6	2.50	0.47
35:BA:2010:G:H5''	54:BW:42:ARG:HB2	1.96	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: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
35:BA:2479:G:OP1	35:BA:2537:U:H1'	2.15	0.47
35:BA:2498:C:O2'	35:BA:2499:C:H5''	2.14	0.47
35:BA:2553:G:N3	35:BA:2583:G:H1'	2.30	0.47
35:BA:2578:G:H2'	35:BA:2579:C:C6	2.50	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
36:BB:16:G:O2'	36:BB:17:C:O5'	2.32	0.47
36:BB:73:A:O2'	36:BB:74:U:H5'	2.15	0.47
37:BC:37:PHE:HE1	37:BC:217:THR:OG1	1.97	0.47
37:BC:90:GLY:O	37:BC:153:ILE:HG22	2.14	0.47
38:BD:80:ALA:HB1	38:BD:96:HIS:HE2	1.80	0.47
38:BD:81:ALA:HA	38:BD:113:VAL:CG1	2.45	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
40:BF:157:VAL:HG12	40:BF:176:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
41:BG:178:PHE:HA	41:BG:179:PRO:HD3	1.56	0.47
42:BH:66:GLY:HA2	42:BH:69:ARG:HB2	1.96	0.47
42:BH:97:ARG:O	42:BH:104:GLU:HG3	2.15	0.47
45:BN:63:THR:HB	45:BN:66:LYS:HZ3	1.75	0.47
45:BN:96:GLU:O	45:BN:100:GLU:HG3	2.15	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
46:BO:18:LYS:HB2	46:BO:45:GLU:HB3	1.95	0.47
48:BQ:62:GLY:HA3	48:BQ:109:VAL:CG2	2.45	0.47
52:BU:47:TYR:O	52:BU:47:TYR:CD1	2.68	0.47
52:BU:104:GLN:HA	52:BU:107:ALA:HB3	1.97	0.47
52:BU:114:LYS:CA	52:BU:117:GLN:HB2	2.43	0.47
53:BV:98:GLU:C	53:BV:99:ILE:HD13	2.35	0.47
54:BW:20:VAL:HG23	54:BW:21:VAL:N	2.29	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
56:BY:46:LYS:HB3	56:BY:62:GLU:CG	2.45	0.47
56:BY:50:ARG:HD3	56:BY:50:ARG:HA	1.49	0.47
57:BZ:149:SER:HB2	57:BZ:173:ALA:HB2	1.97	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
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
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:HB3	12:AL:126:LYS:HE2	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
30:B5:8:LYS:HB2	35:BA:2054:A:N1	2.30	0.47
32:B7:5:TRP:CZ3	35:BA:464:U:C4'	2.98	0.47
33:B8:6:THR:HG21	35:BA:243:U:OP1	2.14	0.47
33:B8:23:VAL:HG13	33:B8:47:LYS:H	1.80	0.47
34:B9:11:CYS:SG	34:B9:32:HIS:CE1	3.08	0.47
35:BA:41:C:H2'	35:BA:42:G:H8	1.80	0.47
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	2.15	0.47
35:BA:382:G:H2'	35:BA:383:U:O4'	2.15	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:751:A:O4'	54:BW:90:ARG:HA	2.15	0.47
35:BA:873:G:H8	35:BA:873:G:O5'	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
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
35:BA:2051:A:H2'	35:BA:2578:G:OP1	2.14	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: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:2815:C:H2'	35:BA:2816:C:O4'	2.14	0.47
35:BA:2847:U:OP1	51:BT:98:LYS:HD3	2.15	0.47
36:BB:96:U:H2'	36:BB:97:G:H8	1.80	0.47
36:BB:118:G:C2	36:BB:119:G:N7	2.83	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:31:HIS:CG	47:BP:13:ASN:OD1	2.67	0.47
40:BF:185:ASP:CA	40:BF:188:ARG:HG2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:84:LYS:O	41:BG:85:GLY:O	2.32	0.47
41:BG:157:ILE:HG22	41:BG:159:VAL:HG12	1.96	0.47
42:BH:54:ARG:O	42:BH:54:ARG:HD2	2.14	0.47
45:BN:97:ARG:O	45:BN:100:GLU:N	2.48	0.47
45:BN:120:LEU:HD13	45:BN:121:LYS:N	2.30	0.47
46:BO:98:VAL:O	46:BO:98:VAL:HG22	2.12	0.47
46:BO:104:ARG:CZ	46:BO:104:ARG:HB3	2.45	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
57:BZ:63:ASP:CB	57:BZ:65:GLN:NE2	2.78	0.47
1:AA:39:G:O2'	1:AA:40:C:H5'	2.15	0.47
1:AA:70:G:O2'	1:AA:71:C:H5'	2.15	0.47
1:AA:448:A:O2'	1:AA:449:C:H5'	2.15	0.47
1:AA:543:C:OP2	4:AD:10:ARG:NH1	2.48	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
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
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
4:AD:65:ARG:HB2	4:AD:75:PHE:CG	2.50	0.47
5:AE:24:ARG:CZ	5:AE:24:ARG:HB3	2.45	0.47
5:AE:142:LEU:HD23	5:AE:142:LEU:HA	1.77	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
30:B5:7:PRO:HA	35:BA:2615:U:C5	2.50	0.47
31:B6:17:LYS:O	31:B6:18:ARG:HB3	2.14	0.47
31:B6:25:LYS:NZ	35:BA:2285:C:N4	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:605:C:C2'	35:BA:606:U:H5'	2.45	0.47
35:BA:1909:C:N4	35:BA:1922:G:N1	2.62	0.47
35:BA:2052:G:H1'	39:BE:149:ARG:O	2.15	0.47
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.30	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
35:BA:2752:C:H5'	35:BA:2753:A:OP2	2.15	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
39:BE:37:ARG:NH1	39:BE:42:ASP:OD1	2.47	0.47
39:BE:195:LEU:HD12	39:BE:196:VAL:H	1.79	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:HH11	47:BP:16:ARG:CB	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:247:G:OP2	17:AQ:99:SER:CB	2.63	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
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.63	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
2:AB:58:ILE:HG22	2:AB:222:ILE:HD12	1.96	0.47
2:AB:84:GLU:OE1	2:AB:219:VAL:HG21	2.14	0.47
2:AB:115:LEU:HB2	2:AB:145:LEU:HD11	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.36	0.47
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
25:B0:36:ILE:CD1	35:BA:2355:C:O4'	2.61	0.47
33:B8:59:LYS:HB2	33:B8:59:LYS:HE3	1.71	0.47
35:BA:19:C:OP1	52:BU:22:LYS:HD2	2.15	0.47
35:BA:176:G:C6	35:BA:177:G:C6	3.03	0.47
35:BA:251:A:H2'	35:BA:252:G:H5'	1.96	0.47
35:BA:259:G:H1'	35:BA:621:A:O2'	2.15	0.47
35:BA:447:A:H4'	35:BA:449:A:N7	2.29	0.47
35:BA:636:G:N7	47:BP:113:LYS:NZ	2.61	0.47
35:BA:1164:G:N2	35:BA:1165:U:H1'	2.30	0.47
35:BA:1255:U:C5	40:BF:73:ALA:HA	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
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:1896:G:C6	35:BA:1897:G:N7	2.83	0.47
35:BA:2110:G:N2	35:BA:2178:C:H5	2.12	0.47
35:BA:2260:C:O2'	35:BA:2388:A:O2'	2.32	0.47
35:BA:2508:G:C2	35:BA:2582:G:C6	3.03	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
36:BB:24:G:H2'	36:BB:56:G:O6	2.15	0.47
37:BC:51:PRO:HG2	37:BC:52:ARG:H	1.79	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
38:BD:138:VAL:HG23	38:BD:168:ARG:CZ	2.45	0.47
40:BF:7:TYR:CE2	40:BF:10:PRO:HD3	2.50	0.47
40:BF:125:LEU:HA	40:BF:194:MET:O	2.15	0.47
41:BG:138:GLN:HG3	41:BG:139:LEU:N	2.29	0.47
42:BH:44:VAL:CG1	42:BH:45:VAL:N	2.78	0.47
42:BH:106:THR:CG2	42:BH:112:PRO:CA	2.63	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:77:ARG:HG2	47:BP:77:ARG:NH1	2.30	0.47
47:BP:79:ARG:O	47:BP:111:ARG:HB2	2.15	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
48:BQ:141:GLN:NE2	57:BZ:72:ARG:O	2.49	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:50:ILE:CG2	51:BT:99:LEU:O	2.54	0.47
51:BT:125:ARG:C	51:BT:128:GLU:HG3	2.34	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
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:589:C:C1'	1:AA:653:A:N6	2.77	0.46
1:AA:599:C:H5''	8:AH:96:GLY:HA2	1.96	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
1:AA:1060:C:P	14:AN:45:ARG:NH2	2.87	0.46
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
2:AB:70:PHE:N	2:AB:70:PHE:HD1	2.13	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
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
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.95	0.46
8:AH:35:ILE:O	8:AH:38:ILE:N	2.46	0.46
11:AK:123:LYS:O	11:AK:123:LYS:CG	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
15:AO:61:GLY:O	15:AO:62:GLN:C	2.53	0.46
20:AT:8:ARG:HH11	20:AT:8:ARG:HG3	1.80	0.46
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.29	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:76:GLN:OE1	24:AY:349:MET:CA	2.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:418:GLN:HA	24:AY:421:GLU:OE1	2.16	0.46
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
26:B1:15:ALA:CB	26:B1:42:GLN:HG3	2.45	0.46
26:B1:94:LEU:H	26:B1:94:LEU:CD1	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
32:B7:11:LYS:HG2	35:BA:686:G:C4	2.50	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:27:G:N2	35:BA:512:G:C2'	2.73	0.46
35:BA:35:G:O2'	35:BA:36:G:H5'	2.15	0.46
35:BA:107:C:H2'	35:BA:108:U:H6	1.80	0.46
35:BA:296:C:N4	35:BA:342:G:H1	2.13	0.46
35:BA:565:C:O2	35:BA:565:C:H2'	2.14	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
35:BA:1006:C:H2'	35:BA:1007:C: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:N3	35:BA:2206:G:H5''	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: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
36:BB:52:A:H2'	36:BB:53:A:OP2	2.15	0.46
38:BD:24:ILE:HA	38:BD:82:ILE:CB	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:66:ASP:CG	38:BD:103:ARG:CZ	2.83	0.46
38:BD:154:LYS:C	38:BD:155:LEU:HD12	2.34	0.46
38:BD:183:ARG:HG3	38:BD:270:ILE:CA	2.45	0.46
39:BE:200:GLU:CD	39:BE:200:GLU:N	2.68	0.46
40:BF:59:TYR:CD2	40:BF:78:ILE:HG13	2.50	0.46
40:BF:114:VAL:HG21	40:BF:202:PHE:CZ	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:HD12	47:BP:75:ILE:N	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:32:TYR:HB3	51:BT:81:PRO:HB2	1.95	0.46
51:BT:106:SER:O	51:BT:107:ASP:CB	2.61	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: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
57:BZ:147:GLY:C	57:BZ:148:ASP:O	2.54	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: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: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
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:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.46
2:AB:8:LYS:CE	2:AB:217:ARG:NH2	2.77	0.46
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.15	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:14:ARG:HG3	8:AH:83:ILE:HG22	1.96	0.46
8:AH:119:LEU:HD23	8:AH:123:GLU:OE1	2.14	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:20:SER:C	24:AY:126:LEU:HD11	2.35	0.46
24:AY:32:LYS:HZ2	24:AY:260:LEU:HD12	1.81	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:232:GLU:O	24:AY:235:LYS:HB2	2.15	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:HE2	32:B7:1:MET:HB2	1.82	0.46
32:B7:34:ARG:HD2	32:B7:39:ARG:HG3	1.96	0.46
35:BA:199:A:N3	35:BA:2433:A:C2	2.83	0.46
35:BA:278:A:O5'	35:BA:278:A:H8	1.98	0.46
35:BA:860:U:O2	35:BA:860:U:O4'	2.32	0.46
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
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:H8	35:BA:1619:G:O5'	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:H4'	35:BA:1912:A:OP1	2.15	0.46
35:BA:2097:C:H1'	35:BA:2193:G:H22	1.80	0.46
35:BA:2171:A:O2'	35:BA:2172:U:C5	2.66	0.46
35:BA:2303:G:N2	35:BA:2313:C:N3	2.54	0.46
35:BA:2308:G:C2'	35:BA:2309:A:C8	2.98	0.46
35:BA:2332:U:H4'	35:BA:2336:A:H62	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2645:G:C3'	35:BA:2646:C:C5'	2.87	0.46
35:BA:2793:G:O2'	35:BA:2794:C:C5'	2.64	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:58:THR:O	47:BP:61:ARG:HG3	2.14	0.46
47:BP:95:VAL:HG23	47:BP:125:VAL:HA	1.96	0.46
47:BP:98:GLU:H	47:BP:101:VAL:HG13	1.80	0.46
48:BQ:14:ARG:HA	48:BQ:72:LYS:CE	2.45	0.46
48:BQ:110:THR:O	48:BQ:111:GLU:C	2.53	0.46
48:BQ:141:GLN:CG	57:BZ:72:ARG:NH1	2.78	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
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:658:G:C1'	15:AO:22:THR:HB	2.46	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
1:AA:954:G:H4'	13:AM:120:LYS:HD2	1.96	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:1124:G:C5'	10:AJ:35:SER:HB2	2.45	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
2:AB:87:ARG:NH1	2:AB:220:ASP:OD1	2.48	0.46
2:AB:213:LEU:HD22	2:AB:214:ILE:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:64:LEU:HB2	4:AD:198:VAL:HG21	1.98	0.46
4:AD:192:GLU:O	4:AD:193:ASP:C	2.54	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
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
19:AS:43:GLU:CG	29:B4:47:GLN:NE2	2.77	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:47:U:C6	22:AV:50:U:OP1	2.68	0.46
22:AV:49:G:H21	22:AV:50:U:C1'	2.26	0.46
22:AV:69:C:C2	22:AV:70:G:C8	3.03	0.46
24:AY:72:THR:CB	24:AY:89:THR:HA	2.45	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
30:B5:12:SER:O	30:B5:15:ARG:N	2.49	0.46
35:BA:149:A:H8	35:BA:149:A:O5'	1.97	0.46
35:BA:257:A:O2'	35:BA:258:G:H5'	2.16	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:662:G:P	47:BP:18:ARG:HD2	2.55	0.46
35:BA:743:G:N2	35:BA:755:C:C2	2.83	0.46
35:BA:826:U:H1'	47:BP:53:GLY:O	2.15	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
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:1141:U:P	45:BN:63:THR:HG23	2.54	0.46
35:BA:1254:A:C8	35:BA:1256:G:C8	3.03	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:1819:A:C5'	38:BD:158:ALA:HB2	2.39	0.46
35:BA:2010:G:C5'	54:BW:42:ARG:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2048:G:C6	35:BA:2049:G:C5	3.04	0.46
35:BA:2049:G:N2	35:BA:2620:C:C2	2.82	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
36:BB:12:C:H4'	36:BB:13:A:OP1	2.16	0.46
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
38:BD:80:ALA:N	38:BD:94:LEU:O	2.46	0.46
39:BE:33:VAL:HG13	39:BE:69:LYS:CD	2.45	0.46
39:BE:108:SER:O	39:BE:109:LYS:C	2.53	0.46
41:BG:67:LYS:HD3	41:BG:67:LYS:N	2.29	0.46
41:BG:92:VAL:O	41:BG:92:VAL:CG1	2.64	0.46
41:BG:180:PHE:C	41:BG:182:LYS:H	2.19	0.46
46:BO:105:GLU:N	46:BO:105:GLU:OE1	2.47	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
55:BX:4:ALA:O	55:BX:6:ASP:N	2.48	0.46
55:BX:26:TYR:HH	55:BX:93:GLU:CD	2.19	0.46
56:BY:6:HIS:CD2	56:BY:6:HIS:N	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:53:ILE:HG13	57:BZ:54:HIS:CD2	2.51	0.46
57:BZ:145:GLU:HG3	57:BZ:146:ILE:H	1.81	0.46
1:AA:19:C:H2'	1:AA:20:U:H6	1.80	0.46
1:AA:28:G:O2'	1:AA:296:U:OP1	2.34	0.46
1:AA:269:C:H2'	1:AA:270:A:C8	2.49	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:H8	1:AA:941:G:O5'	1.99	0.46
2:AB:16:HIS:HB3	2:AB:210:SER:CB	2.46	0.46
2:AB:31:TYR:N	2:AB:31:TYR:CD1	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:HG12	24:AY:334:VAL:O	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:28:A:N6	35:BA:512:G:H1'	2.30	0.46
35:BA:116:C:C4	35:BA:117:G:C5	3.03	0.46
35:BA:199:A:O2'	35:BA:2433:A:N6	2.48	0.46
35:BA:280:C:H3'	35:BA:281:G:C8	2.51	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:693:C:O2'	35:BA:1353:A:H1'	2.16	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
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: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: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:H8	35:BA:1527:G:O5'	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: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:2821:A:OP2	35:BA:2821:A:H3'	2.16	0.46
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.70	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: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
39:BE:180:ASN:O	39:BE:181:LEU:HD12	2.16	0.46
40:BF:32:LEU:HD13	40:BF:112:MET:SD	2.56	0.46
41:BG:40:ASN:HB2	41:BG:90:LEU:O	2.15	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: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
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:7:GLY:O	49:BR:8:ARG:CB	2.60	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
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:3:TYR:N	57:BZ:3:TYR:CD1	2.83	0.46
57:BZ:122:ARG:NH1	57:BZ:122:ARG:CG	2.75	0.46
1:AA:110:C:C2	1:AA:111:G:C8	3.03	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:562:C:H1'	12:AL:15:ARG:HD2	1.98	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:978:A:C6	1:AA:1318:A:N7	2.83	0.46
1:AA:995:C:HO2'	1:AA:996:A:P	2.37	0.46
1:AA:1001(A):G:H2'	1:AA:1002:G:O4'	2.15	0.46
1:AA:1242:C:O2'	1:AA:1243:C:C5'	2.62	0.46
1:AA:1497:G:C2'	1:AA:1498:U:C5'	2.92	0.46
2:AB:30:ARG:C	2:AB:32:ILE:N	2.68	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:20:GLN:CG	5:AE:21:ALA:N	2.65	0.46
7:AG:12:LEU:HD13	7:AG:25:ALA:HB2	1.98	0.46
8:AH:1:MET:HE1	8:AH:3:THR:CG2	2.45	0.46
8:AH:22:GLU:O	8:AH:63:LEU:CD2	2.63	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:16:LEU:HD23	10:AJ:94:VAL:CG1	2.44	0.46
10:AJ:28:ARG:C	10:AJ:30:SER:N	2.68	0.46
11:AK:63:LEU:HA	11:AK:66:LEU:CG	2.45	0.46
14:AN:31:ARG:O	14:AN:32:SER:OG	2.33	0.46
24:AY:14:ARG:CD	24:AY:276:ALA:HB1	2.46	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: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: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
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:1349:A:N6	35:BA:1598:C:N4	2.64	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:1902:C:H4'	38:BD:246:PRO:HD3	1.97	0.46
35:BA:1902:C:H5'	38:BD:246:PRO:CD	2.45	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:2009:G:C4'	54:BW:40:ASN:ND2	2.79	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
37:BC:55:ASP:C	37:BC:56:GLN:HG3	2.35	0.46
37:BC:142:ALA:HB1	37:BC:162:GLU:CD	2.36	0.46
38:BD:133:LEU:CD2	38:BD:191:ALA:HB2	2.43	0.46
39:BE:111:ARG:NH1	39:BE:160:TYR:CE2	2.83	0.46
40:BF:66:PRO:C	40:BF:68:LYS:N	2.69	0.46
40:BF:154:VAL:HG13	40:BF:191:ARG:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:68:THR:HG23	42:BH:72:ILE:HB	1.98	0.46
42:BH:107:VAL:O	42:BH:107:VAL:CG2	2.62	0.46
42:BH:145:ALA:CB	42:BH:164:TYR:OH	2.63	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:65:ILE:CD1	52:BU:96:ALA:CB	2.94	0.46
52:BU:97:ASP:HA	52:BU:100:VAL:HG23	1.98	0.46
53:BV:29:PRO:HG2	53:BV:30:GLY:H	1.81	0.46
53:BV:60:GLU:HB3	53:BV:95:LEU:HB3	1.96	0.46
53:BV:95:LEU:CD1	53:BV:97:LYS:NZ	2.78	0.46
55:BX:18:TYR:C	55:BX:20:GLY:N	2.60	0.46
1:AA:16:A:H2'	1:AA:17:U:C5'	2.44	0.46
1:AA:67:C:O2	1:AA:171:A:C2	2.55	0.46
1:AA:111:G:O2'	1:AA:389:A:H1'	2.15	0.46
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	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:OP2	1:AA:507:C:C6	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: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
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
2:AB:68:ILE:N	2:AB:90:MET:CE	2.66	0.46
2:AB:157:ARG:CB	2:AB:157:ARG:HH11	2.29	0.46
3:AC:83:ARG:C	3:AC:85:ARG:H	2.18	0.46
3:AC:108:ASN:HB3	3:AC:111:LEU:CB	2.43	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
4:AD:112:VAL:HG12	4:AD:116:GLN:NE2	2.31	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:425:VAL:HG11	24:AY:445:GLN:HG3	1.94	0.46
24:AY:438:VAL:O	24:AY:446:PHE:CE2	2.68	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:486:C:H4'	54:BW:60:ASN:ND2	2.31	0.46
35:BA:564:C:OP1	53:BV:77:ALA:CB	2.63	0.46
35:BA:605:C:H1'	35:BA:657:U:O2'	2.16	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:1061:U:N3	44:BK:55:UNK:C	2.79	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:2012:G:C4'	54:BW:96:ILE:HD11	2.45	0.46
35:BA:2031:A:N6	35:BA:2498:C:H1'	2.31	0.46
35:BA:2043:C:C4	35:BA:2777:G:C2	3.04	0.46
35:BA:2068:U:N3	35:BA:2430:A:H2	2.13	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:2585:U:O2	35:BA:2585:U:O4'	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
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
45:BN:62:VAL:O	45:BN:62:VAL:CG1	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

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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:110:C:O2'	1:AA:111:G:H5'	2.16	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
1:AA:986:A:N1	1:AA:1220:G:C6	2.84	0.46
1:AA:1049:U:O2	1:AA:1201:A:C5	2.69	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: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:1483:A:H2	35:BA:1960:A:O4'	1.99	0.46
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.80	0.46
2:AB:64:ARG:HG2	2:AB:65:GLY:N	2.30	0.46
2:AB:221:LEU:HD13	2:AB:225:ALA:HB2	1.97	0.46
2:AB:224:GLN:O	2:AB:225:ALA:C	2.54	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:H	6:AF:98:LEU:CD1	1.96	0.46
7:AG:126:ASP:N	7:AG:126:ASP:OD1	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:B3:13:ILE:HD11	35:BA:989:G:N1	2.30	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:952:G:P	48:BQ:16:ARG:HH22	2.39	0.46
35:BA:972:G:C2'	35:BA:973:A:C8	2.90	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
35:BA:2048:G:O4'	35:BA:2823:A:N1	2.48	0.46
35:BA:2076:U:H5	38:BD:244:ARG:HH22	1.60	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:H3'	35:BA:2453:A:C8	2.51	0.46
36:BB:67:G:C2	36:BB:68:C:C5	3.03	0.46
36:BB:75:G:C2'	57:BZ:85:HIS:CE1	2.92	0.46
36:BB:112:U:H2'	36:BB:113:G:H8	1.81	0.46
37:BC:59:ARG:NE	37:BC:164:ARG:CD	2.78	0.46
37:BC:131:LEU:HD22	37:BC:136:LEU:HB2	1.97	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
38:BD:214:TRP:C	38:BD:216:GLY:N	2.66	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: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
42:BH:154:PRO:O	42:BH:155:SER:HB3	2.16	0.46
45:BN:114:ARG:O	45:BN:117:PHE:N	2.49	0.46
45:BN:123:TYR:N	45:BN:123:TYR:CD1	2.84	0.46
46:BO:87:ILE:HD13	46:BO:87:ILE:N	2.30	0.46
48:BQ:51:ARG:O	48:BQ:55:VAL:HG12	2.15	0.46
48:BQ:106:VAL:O	48:BQ:107:ALA:CB	2.64	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:48:ILE:N	51:BT:63:VAL:HG13	2.30	0.46
51:BT:58:ASN:ND2	51:BT:58:ASN:N	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:67:C:O2'	1:AA:171:A:H1'	2.16	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
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
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:99:GLY:O	5:AE:118:ILE:N	2.43	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
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:O	12:AL:76:ASN:CG	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: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
24:AY:105:ALA:O	24:AY:319:ARG:NH1	2.49	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:457:TYR:HB2	24:AY:459:VAL:CG2	2.36	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:71:A:OP1	35:BA:112:U:O2'	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:1187:G:C5'	53:BV:81:TYR:CE1	2.96	0.46
35:BA:1267:U:H5	35:BA:2012:G:C2	2.33	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
35:BA:1624:G:C5	35:BA:1625:C:C5	3.03	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:N3	35:BA:2173:A:C2'	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
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:8:GLN:O	40:BF:10:PRO:HD3	2.14	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:95:ARG:NH2	40:BF:97:TYR:OH	2.49	0.46
40:BF:195:ASP:H	40:BF:198:ALA:HB3	1.81	0.46
41:BG:18:GLU:HA	41:BG:18:GLU:OE1	2.16	0.46
41:BG:166:ASP:C	41:BG:168:GLU:N	2.69	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
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:661:G:N2	1:AA:745:C:C2	2.84	0.46
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.16	0.46
1:AA:1359:C:P	14:AN:22:THR:HG21	2.54	0.46
1:AA:1363:C:H5'	1:AA:1363(A):A:O5'	2.16	0.46
2:AB:131:PRO:HG2	2:AB:134:GLU:HB2	1.97	0.46
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.81	0.46
3:AC:139:GLN:NE2	3:AC:143:GLU:CD	2.65	0.46
4:AD:46:LYS:O	4:AD:47:ARG:C	2.55	0.46
4:AD:200:GLU:O	4:AD:201:GLN:C	2.53	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:10:ARG:CG	9:AI:75:ASP:HB3	2.34	0.46
9:AI:22:GLY:HA3	9:AI:60:ASP:CG	2.35	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
11:AK:111:ASP:O	11:AK:111:ASP:OD1	2.34	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
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:132:G:C2'	35:BA:133:C:O4'	2.63	0.46
35:BA:247:G:OP2	35:BA:249:C:H5	1.99	0.46
35:BA:528:A:H3'	35:BA:528:A:H8	1.81	0.46
35:BA:530:G:N2	35:BA:2021:C:H1'	2.31	0.46
35:BA:558:G:OP1	45:BN:110:GLY:HA3	2.16	0.46
35:BA:568:U:P	35:BA:945:A:H61	2.39	0.46
35:BA:831:G:O3'	47:BP:40:SER:HB2	2.16	0.46
35:BA:957:A:OP1	48:BQ:77:LYS:HB2	2.16	0.46
35:BA:963:U:C2	35:BA:964:C:C5	3.04	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H3'	35:BA:2443:C:C6	2.49	0.46
35:BA:2822:G:H5''	39:BE:159:HIS:NE2	2.31	0.46
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
36:BB:58:A:C8	36:BB:59:A:N7	2.84	0.46
36:BB:116:G:C2	36:BB:117:G:C8	3.04	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:4:ILE:H	39:BE:81:ILE:HD11	1.80	0.46
39:BE:44:TYR:O	39:BE:45:THR:CB	2.63	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
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: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
48:BQ:127:ILE:HG13	48:BQ:128:LYS:O	2.15	0.46
51:BT:66:VAL:O	51:BT:66:VAL:HG23	2.16	0.46
51:BT:132:LYS:H	51:BT:132:LYS:CE	2.29	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
52:BU:112:ARG:O	52:BU:115:ALA:CB	2.63	0.46
54:BW:29:LEU:HD23	54:BW:33:ARG:HH11	1.80	0.46
1:AA:61:G:H4'	1:AA:386:C:O2'	2.16	0.46
1:AA:275:G:C4	1:AA:276:G:C8	3.04	0.46
1:AA:276:G:O2'	17:AQ:68:ARG:NH1	2.49	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
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
3:AC:21:ARG:O	3:AC:22:TRP:HD1	1.98	0.46
4:AD:20:TYR:O	4:AD:21:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.98	0.46
4:AD:141:ARG:O	4:AD:185:PHE:HD2	1.98	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:C	9:AI:112:LYS:CD	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
12:AL:129:ALA:N	24:AY:487:ARG:HH12	2.13	0.46
13:AM:16:ASP:HB3	13:AM:34:LEU:CD1	2.47	0.46
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.98	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
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:76:GLN:CG	24:AY:85:ASN:ND2	2.79	0.46
24:AY:122:ARG:HA	24:AY:122:ARG:NE	2.31	0.46
24:AY:131:ARG:NH1	24:AY:131:ARG:HG2	2.30	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:B8:3:LYS:CD	35:BA:242:G:O5'	2.52	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:246:C:H5'	47:BP:71:VAL:HG23	1.98	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
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:1826:G:C4'	38:BD:242:ARG:HH21	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:2475:C:H2'	35:BA:2477:C:OP1	2.15	0.46
35:BA:2740:A:C6	35:BA:2741:A:C6	3.04	0.46
35:BA:2743:C:C2	35:BA:2762:G:N2	2.84	0.46
35:BA:2748:A:H2	42:BH:63:SER:HG	1.60	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
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
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:57:VAL:CG1	40:BF:58:ALA:N	2.79	0.46
40:BF:139:PHE:O	40:BF:140:LEU:C	2.55	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
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:23:LYS:HA	57:BZ:40:ASP:HA	1.98	0.46
57:BZ:177:PRO:O	57:BZ:178:GLU:HG2	2.15	0.46
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
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
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:O	15:AO:42:HIS:CD2	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:O	24:AY:19:ILE:CG1	2.65	0.45
24:AY:19:ILE:HB	24:AY:126:LEU:HB3	1.97	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:B2:25:VAL:HG21	27:B2:60:LEU:HB3	1.97	0.45
27:B2:57:ILE:O	27:B2:58:ALA:O	2.33	0.45
28:B3:4:LEU:O	28:B3:36:VAL:CA	2.61	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
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: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:910:A:H62	48:BQ:13:GLN:H	1.64	0.45
35:BA:986:C:C2'	35:BA:987:G:H5'	2.46	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:C2'	35:BA:1925:C:O2	2.64	0.45
35:BA:2053:G:O3'	39:BE:145:LYS:HD3	2.16	0.45
35:BA:2063:C:O2	35:BA:2451:A:C2	2.68	0.45
35:BA:2072:G:N1	35:BA:2438:U:C4	2.84	0.45
35:BA:2303:G:N2	35:BA:2314:C:C2	2.84	0.45
35:BA:2304:G:N2	35:BA:2313: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:4:GLY:C	37:BC:6:ARG:N	2.69	0.45
37:BC:40:THR:HA	37:BC:177:LYS:CA	2.38	0.45
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
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
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: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:O5'	1:AA:985:C:H6	2.00	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
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:8:GLU:HG3	7:AG:9:VAL:H	1.81	0.45
7:AG:72:ARG:N	7:AG:142:GLU:OE2	2.46	0.45
7:AG:117:ALA:O	7:AG:120:ILE:HB	2.16	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
34:B9:19:ARG:NH1	35:BA:2755:C:C2'	2.80	0.45
35:BA:18:C:N4	35:BA:19:C:N4	2.64	0.45
35:BA:59:U:H5'	35:BA:60:G:OP2	2.15	0.45
35:BA:61:G:H8	35:BA:61:G:O5'	2.00	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: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:792:G:C4	35:BA:2440:C:C2	3.04	0.45
35:BA:886:C:C5	35:BA:887:A:N7	2.84	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:1664:A:H2	46:BO:1:MET:CE	2.29	0.45
35:BA:1719:G:C2	35:BA:1720:U:C2	3.04	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:2628:C:O2'	35:BA:2781:A:H3'	2.16	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: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
42:BH:155:SER:C	42:BH:157:TYR:H	2.18	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
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
48:BQ:141:GLN:CD	57:BZ:72:ARG:HD3	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:50:ARG:O	52:BU:53:ARG:N	2.49	0.45
52:BU:108:GLU:C	52:BU:110:VAL:N	2.69	0.45
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG23	2.46	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
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.51	0.45
2:AB:21:ARG:HB3	2:AB:39:ILE:HG12	1.98	0.45
2:AB:142:LEU:HA	2:AB:145:LEU:CB	2.46	0.45
3:AC:3:ASN:O	3:AC:4:LYS:HB2	2.16	0.45
3:AC:31:HIS:O	3:AC:33:LEU:N	2.49	0.45
3:AC:32:LEU:O	3:AC:35:GLU:N	2.49	0.45
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.98	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
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:245:G:O3'	47:BP:71:VAL:HA	2.17	0.45
35:BA:331:A:OP1	35:BA:1210:A:N6	2.49	0.45
35:BA:348:G:H2'	35:BA:349:G:O4'	2.16	0.45
35:BA:615:G:OP2	40:BF:40:GLN:CG	2.63	0.45
35:BA:672:C:C2	35:BA:809:G:N2	2.83	0.45
35:BA:696:G:N2	35:BA:697:C:C2	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:781:A:H2'	35:BA:1777:U:O2'	2.15	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
35:BA:1070:A:N1	44:BK:7:UNK:C	2.79	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:O5'	35:BA:1805:U:H6	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
35:BA:2276:G:OP2	48:BQ:86:GLY:N	2.49	0.45
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:2637:U:H5''	39:BE:82:ARG:HE	1.81	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
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
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
45:BN:61:ARG:HH11	45:BN:61:ARG:CG	2.19	0.45
50:BS:73:LEU:HD23	50:BS:73:LEU:C	2.37	0.45
52:BU:10:ARG:O	52:BU:14:HIS:HB2	2.16	0.45
52:BU:101:ARG:HG3	52:BU:101:ARG:HH11	1.80	0.45
57:BZ:54:HIS:O	57:BZ:98:MET:HE1	2.16	0.45
1:AA:14:U:N3	1:AA:17:U:OP2	2.49	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:332:G:C5	1:AA:333:G:N7	2.84	0.45
1:AA:667:G:N3	15:AO:49:ASP:OD2	2.49	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
1:AA:1014:A:C4	19:AS:34:TRP:CE3	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1046:A:N3	1:AA:1046:A:H2'	2.32	0.45
1:AA:1048:G:C2	1:AA:1050:G:N7	2.84	0.45
1:AA:1304:G:C6	1:AA:1305:G:N1	2.83	0.45
1:AA:1352:C:H2'	1:AA:1352:C:O2	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
2:AB:8:LYS:C	2:AB:9:GLU:OE1	2.55	0.45
2:AB:224:GLN:C	2:AB:226:ARG:N	2.68	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:5:ILE:CG2	4:AD:6:GLY:N	2.78	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
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:HG2	10:AJ:28:ARG:NH1	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
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
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:N3	23:AX:12:A:C3'	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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2840:C:O3'	49:BR:53:HIS:NE2	2.50	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
36:BB:92:C:OP1	48:BQ:19:GLY:CA	2.64	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:26:LYS:O	38:BD:27:THR:CB	2.65	0.45
38:BD:109:ASP:OD1	38:BD:109:ASP:C	2.55	0.45
40:BF:3:GLU:HA	40:BF:24:LEU:HB3	1.96	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:C	40:BF:192:LEU:HD23	2.37	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: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
48:BQ:118:LEU:HA	48:BQ:121:ALA:HB3	1.97	0.45
49:BR:63:ARG:HB2	49:BR:63:ARG:NH1	2.24	0.45
50:BS:19:LYS:HB3	50:BS:20:ARG:NH2	2.32	0.45
51:BT:7:ILE:O	51:BT:9:LEU:N	2.49	0.45
51:BT:100:TYR:O	51:BT:102:ILE: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:660:G:OP2	15:AO:5:LYS:HD3	2.16	0.45
1:AA:924:C:H2'	1:AA:925:G:H8	1.80	0.45
1:AA:1309:G:C6	1:AA:1310:G:C5	3.04	0.45
1:AA:1404:C:C1'	1:AA:1499:A:N1	2.79	0.45
1:AA:1431:C:C2	1:AA:1470:G:N2	2.85	0.45
1:AA:1514:C:N4	1:AA:1515:C:N4	2.64	0.45
3:AC:83:ARG:CG	3:AC:87:LEU:HD11	2.43	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
4:AD:60:GLU:HG2	4:AD:202:LEU:CD1	2.41	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
5:AE:96:PRO:HA	5:AE:117:ASP:CG	2.37	0.45
10:AJ:12:ASP:HB3	10:AJ:15:THR:OG1	2.16	0.45
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.31	0.45
11:AK:123:LYS:O	11:AK:123:LYS:HG2	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
26:B1:41:ARG:NH2	35:BA:1365:A:OP1	2.39	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:82:G:H8	35:BA:82:G:OP2	1.99	0.45
35:BA:272(E):G:O2'	35:BA:272(F):C:H5'	2.16	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:942:G:C6	35:BA:943:U:N3	2.85	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
35:BA:1155:A:OP2	52:BU:58:ARG:NH1	2.50	0.45
35:BA:1504:C:O2'	35:BA:1505:C:O5'	2.35	0.45
35:BA:1637:A:H4'	35:BA:2711:A:O2'	2.17	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:H2'	35:BA:2190:G:N3	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2686:G:C2	35:BA:2687:U:C2	3.04	0.45
35:BA:2762:G:H5''	35:BA:2762:G:H8	1.82	0.45
37:BC:222:VAL:O	37:BC:224:ILE:CG2	2.63	0.45
38:BD:63:ARG:C	38:BD:64:ILE:O	2.55	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
39:BE:81:ILE:C	39:BE:82:ARG:O	2.52	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
40:BF:153:SER:HA	40:BF:172:TRP:HB2	1.98	0.45
41:BG:55:LYS:O	41:BG:56:ALA:C	2.54	0.45
41:BG:143:GLU:O	41:BG:144:ILE:CG2	2.65	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:9:LYS:HD2	49:BR:43:GLU:HB2	1.97	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
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
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: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:620:C:H4'	4:AD:138:TYR:HD1	1.82	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
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:1226:C:H5	13:AM:104:ARG:HB2	1.81	0.45
1:AA:1286:A:O2'	1:AA:1287:A:OP2	2.31	0.45
1:AA:1308:U:O5'	1:AA:1308:U:H6	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:A:H2	35:BA:1960:A:C1'	2.29	0.45
2:AB:92:TYR:CD1	2:AB:151:GLY:HA3	2.52	0.45
2:AB:198:ASP:OD1	2:AB:198:ASP:N	2.49	0.45
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.17	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
3:AC:109:PRO:O	3:AC:111:LEU:N	2.48	0.45
4:AD:101:LEU:C	4:AD:103:ASN:H	2.20	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
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:6:TYR:O	24:AY:360:TYR:CE2	2.70	0.45
24:AY:25:GLY:CA	24:AY:29:ILE:HG13	2.43	0.45
24:AY:171:TRP:CZ2	24:AY:234:VAL:HG13	2.51	0.45
24:AY:200:THR:O	24:AY:201:ILE:C	2.55	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
25:B0:20:ARG:HD2	25:B0:20:ARG:H	1.81	0.45
27:B2:30:ARG:NH2	55:BX:5:TYR:OH	2.49	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:B5:7:PRO:HA	35:BA:2615:U:N1	2.31	0.45
30:B5:28:PRO:HG2	54:BW:35:ILE:HD12	1.98	0.45
30:B5:57:VAL:HG12	30:B5:58:LEU:CD1	2.36	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:B9:5:ALA:HB1	35:BA:1125:G:O2'	2.17	0.45
34:B9:27:CYS:SG	34:B9:32:HIS:ND1	2.90	0.45
35:BA:242:G:O3'	35:BA:243:U:H6	2.00	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
35:BA:1054:A:C2	35:BA:1055:G:N7	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
37:BC:100:ILE:O	37:BC:100:ILE:CG2	2.62	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
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
40:BF:160:ASN:HD21	40:BF:162:LEU:HD13	1.81	0.45
41:BG:71:THR:CB	41:BG:89:GLY:O	2.62	0.45
41:BG:78:SER:C	41:BG:80:PHE:N	2.69	0.45
42:BH:54:ARG:H	42:BH:54:ARG:CD	2.30	0.45
46:BO:64:ARG:CZ	51:BT:70:VAL:HG21	2.46	0.45
49:BR:26:LYS:CE	49:BR:71:GLN:H	2.30	0.45
49:BR:87:TYR:HE2	49:BR:117:VAL:CG1	2.29	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
54:BW:46:PHE:O	54:BW:50:VAL:HG12	2.16	0.45
56:BY:64:GLU:O	56:BY:65:ALA:CB	2.65	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
57:BZ:151:HIS:HA	57:BZ:171:ILE:CD1	2.47	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:166:G:H2'	1:AA:167:G:H8	1.81	0.45
1:AA:186:C:O2'	20:AT:85:MET:SD	2.72	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:758:G:H4'	1:AA:880:C:C4'	2.46	0.45
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:AB:27:LYS:H	2:AB:27:LYS:HG3	1.42	0.45
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.47	0.45
9:AI:47:LEU:HG	9:AI:50:LEU:CD1	2.45	0.45
9:AI:112:LYS:HD3	9:AI:112:LYS:O	2.17	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
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:29:ILE:HG12	24:AY:259:ALA:HB2	1.97	0.45
24:AY:207:VAL:O	24:AY:208:LYS:O	2.35	0.45
25:B0:18:ALA:HB1	35:BA:2271:G:H5''	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:65:C:O2'	35:BA:456:C:O2	2.33	0.45
35:BA:131:G:H2'	35:BA:132:G:H8	1.80	0.45
35:BA:220:G:H2'	35:BA:427:U:O4	2.16	0.45
35:BA:247:G:C8	35:BA:249:C:C6	3.05	0.45
35:BA:587:C:N4	47:BP:33:ARG:CB	2.79	0.45
35:BA:614:U:C2'	35:BA:614(A):U:H5'	2.46	0.45
35:BA:863:A:P	48:BQ:22:LYS:HB2	2.57	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:1257:C:C1'	40:BF:83:PHE:HA	2.46	0.45
35:BA:1267:U:C5	35:BA:2012:G:N2	2.85	0.45
35:BA:1394:U:H6	35:BA:1394:U:H3'	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:2131:G:H3'	35:BA:2131:G:OP2	2.17	0.45
35:BA:2325:G:C5	35:BA:2326:C:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2453:A:H2	35:BA:2504:U:H3	1.64	0.45
35:BA:2574:G:C2	35:BA:2575:C:C2	3.05	0.45
35:BA:2685:G:C4'	46:BO:67:LYS:HZ2	2.30	0.45
35:BA:2793:G:O2'	35:BA:2794:C:H5''	2.17	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:11:MET:HA	39:BE:23:VAL:O	2.16	0.45
39:BE:111:ARG:HD2	39:BE:111:ARG:N	2.31	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:H	48:BQ:14:ARG:HG3	1.36	0.45
48:BQ:48:GLU:O	48:BQ:49:ALA:C	2.55	0.45
49:BR:24:GLN:NE2	49:BR:36:THR:HG21	2.32	0.45
49:BR:27:SER:O	49:BR:30:THR:CG2	2.65	0.45
51:BT:32:TYR:CG	51:BT:33:LYS:N	2.85	0.45
51:BT:102:ILE:O	51:BT:102:ILE:CG1	2.65	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: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:587:G:N2	1:AA:754:C:OP2	2.48	0.45
1:AA:633:G:H3'	1:AA:634:C:C5	2.52	0.45
1:AA:865:A:H5'	1:AA:1078:U:O4	2.16	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
1:AA:1048:G:C2	1:AA:1050:G:C5	3.05	0.45
1:AA:1309:G:C6	1:AA:1329:A:C6	3.05	0.45
2:AB:177:ALA:HB3	2:AB:184:VAL:CG2	2.47	0.45
4:AD:31:CYS:O	4:AD:32:ALA:HB2	2.16	0.45
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.16	0.45
5:AE:24:ARG:CG	5:AE:24:ARG:NH1	2.77	0.45
5:AE:110:LEU:HA	5:AE:113:ALA:HB2	1.98	0.45
5:AE:150:ARG:NH1	5:AE:150:ARG:HB2	2.32	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:C	10:AJ:16:LEU:CD1	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:4:G:H2'	22:AV:5:G:C8	2.51	0.45
22:AV:22:G:H2'	22:AV:22:G:N3	2.32	0.45
22:AV:76:A:O2'	35:BA:2395:C:C4	2.65	0.45
24:AY:70:ILE:HG23	24:AY:95:PHE:CD1	2.52	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:HD12	24:AY:231:LEU:C	2.37	0.45
24:AY:347:THR:HB	24:AY:365:LEU:HG	1.99	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:143:G:H1'	55:BX:37:THR:CG2	2.23	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
35:BA:1097:U:O2'	44:BK:6:UNK:CA	2.52	0.45
35:BA:1651:G:H2'	35:BA:1652:A:H8	1.81	0.45
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2742:C:H2'	35:BA:2743:C:H6	1.81	0.45
37:BC:64:LEU:CD1	37:BC:175:VAL:O	2.58	0.45
37:BC:167:LYS:O	37:BC:167:LYS:CE	2.65	0.45
38:BD:84:TYR:CG	38:BD:85:ASP:N	2.84	0.45
38:BD:136:ILE:HG23	38:BD:140:THR:HG21	1.98	0.45
38:BD:155:LEU:HD12	38:BD:155:LEU:N	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
39:BE:105:THR:CG2	39:BE:106:GLY:H	2.27	0.45
45:BN:6:PRO:CG	52:BU:64:ARG:HH22	2.29	0.45
45:BN:93:THR:O	45:BN:93:THR:CG2	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
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:42:VAL:C	57:BZ:44:PHE:N	2.67	0.45
57:BZ:166:SER:HB2	57:BZ:168:GLU:CB	2.46	0.45
1:AA:55:A:O2'	1:AA:56:U:H5'	2.17	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: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
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:1398:A:N6	5:AE:22:GLY:H	2.06	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:41:VAL:CG2	5:AE:67:VAL:HG13	2.47	0.45
5:AE:148:VAL:HG21	8:AH:107:LEU:HD13	1.99	0.45
7:AG:137:LYS:HE2	7:AG:137:LYS:HB3	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:O	25:B0:75:LEU:HD23	2.17	0.45
28:B3:30:ARG:CG	35:BA:1184:G:OP1	2.65	0.45
29:B4:37:SER:C	29:B4:39:CYS:H	2.17	0.45
30:B5:6:VAL:HG22	30:B5:7:PRO:HD2	1.99	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N3	2.31	0.45
31:B6:22:ALA:O	31:B6:23:THR:OG1	2.29	0.45
35:BA:36:G:C2	35:BA:445:C:N3	2.85	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:317:G:H2'	35:BA:318:C:C6	2.52	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
35:BA:1022:G:C6	35:BA:1140:C:C2	3.05	0.45
35:BA:1023:U:C4'	35:BA:1123:C:OP1	2.65	0.45
35:BA:1027:A:C2	35:BA:1028:A:N7	2.84	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
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:H6	35:BA:1691:C:O5'	1.99	0.45
35:BA:1693:U:O4	35:BA:1976:U:O2'	2.35	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:2677:G:O2'	35:BA:2678:C:H5'	2.17	0.45
35:BA:2681:C:C5	35:BA:2727:G:C2	3.00	0.45
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.46	0.45
35:BA:2850:A:H8	35:BA:2850:A:O5'	2.00	0.45
37:BC:81:GLU:C	37:BC:83:ILE:H	2.19	0.45
37:BC:189:ILE:O	37:BC:193:ILE:HG13	2.17	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:125:U:H2'	1:AA:126:G:H8	1.81	0.45
1:AA:134:A:C5	1:AA:135:C:C4	3.05	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
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:1226:C:C5	13:AM:104:ARG:HA	2.52	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:1348:U:C5'	9:AI:110:GLU:OE1	2.64	0.45
1:AA:1430:C:C2	1:AA:1471:G:N2	2.85	0.45
1:AA:1465:C:C5	1:AA:1466:C:C4	3.05	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:O	3:AC:52:LEU:HG	2.16	0.45
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.64	0.45
4:AD:127:THR:HB	4:AD:147:ALA:O	2.17	0.45
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.84	0.45
6:AF:62:TRP:CG	18:AR:35:ARG:NH1	2.85	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:N	12:AL:60:LEU:HD22	2.32	0.45
13:AM:96:LEU:C	13:AM:110:ARG:HD3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:67:LYS:HG2	17:AQ:68:ARG:HG3	1.99	0.45
22:AV:74:C:C2'	22:AV:75:C:H5'	2.47	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
24:AY:154:LEU:C	24:AY:156:ASP:N	2.71	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:B5:6:VAL:CG2	30:B5:7:PRO:HD2	2.47	0.45
30:B5:52:TYR:CD2	30:B5:52:TYR:O	2.69	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:85:G:H8	35:BA:85:G:H5''	1.81	0.45
35:BA:154:G:C4	35:BA:154(A):C:C5	3.05	0.45
35:BA:186:G:H8	35:BA:186:G:O5'	2.00	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: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:1770:G:C5	35:BA:1771:C:C5	3.05	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:2631:G:N2	39:BE:61:ARG:HH12	2.14	0.45
35:BA:2788:C:O3'	35:BA:2809:A:O2'	2.34	0.45
36:BB:50:G:OP1	50:BS:63:THR:CG2	2.65	0.45
36:BB:77:U:H4'	57:BZ:84:GLU:OE2	2.17	0.45
37:BC:38:ASP:OD2	37:BC:177:LYS:HE2	2.17	0.45
37:BC:213:TYR:OH	37:BC:223:ARG:HD2	2.16	0.45
38:BD:260:ARG:HG2	38:BD:261:LYS:N	2.32	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
40:BF:117:ARG:HD2	40:BF:191:ARG:HA	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BQ:72:LYS:HB3	48:BQ:94:VAL:CG2	2.45	0.45
49:BR:96:ARG:HD3	49:BR:98:LEU:CD1	2.36	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
52:BU:98:LEU:O	52:BU:100:VAL:N	2.50	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:55:A:C5	24:AY:311:HIS:CE1	3.05	0.44
1:AA:122:G:H2'	1:AA:123:C:H6	1.76	0.44
1:AA:172:A:H5''	1:AA:172:A:C8	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
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
2:AB:97:TRP:HZ3	2:AB:172:ILE:HB	1.82	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
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: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
24:AY:202:GLN:O	24:AY:203:GLU:C	2.54	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:HA	27:B2:31:GLU:OE1	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:1047:G:N2	35:BA:1110:G:H2'	2.31	0.44
35:BA:1095:A:H2'	35:BA:1096:A:C8	2.42	0.44
35:BA:1252:G:O2'	35:BA:1253:A:C8	2.71	0.44
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:H3'	35:BA:1542:A:H8	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:O5'	35:BA:2072:G:C8	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:2840:C:H5''	49:BR:53:HIS:CD2	2.52	0.44
37:BC:73:ARG:HH21	37:BC:110:PHE:HA	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
38:BD:44:ASN:OD1	38:BD:44:ASN:N	2.48	0.44
38:BD:267:SER:O	38:BD:268:ARG:CB	2.65	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

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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:10:ARG:H	57:BZ:37:VAL:HA	1.82	0.44
57:BZ:17:ALA:HA	57:BZ:20:ARG:CG	2.46	0.44
57:BZ:40:ASP:OD1	57:BZ:42:VAL:CG1	2.61	0.44
57:BZ:167:PRO:HG2	57:BZ:167:PRO:O	2.17	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:80:G:C3'	1:AA:81:U:C5'	2.87	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:996:A:C2	1:AA:997:U:N3	2.85	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
2:AB:75:LYS:HD3	2:AB:75:LYS:C	2.36	0.44
2:AB:97:TRP:NE1	2:AB:101:MET:HG3	2.32	0.44
2:AB:178:ARG:HH11	2:AB:178:ARG:CG	2.20	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:O	24:AY:390:ILE:CG2	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:HA	27:B2:20:GLU:OE1	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
32:B7:33:ARG:CZ	35:BA:467:G:OP1	2.65	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:9:U:O2	35:BA:10:G:C8	2.70	0.44
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.16	0.44
35:BA:459:U:H2'	35:BA:460:A:H8	1.80	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:906:G:C2'	48:BQ:67:ARG:HH22	2.30	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
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: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:1638:C:H4'	35:BA:2710:C:O2	2.17	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: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
36:BB:50:G:OP1	50:BS:63:THR:HG23	2.17	0.44
37:BC:14:VAL:HG22	37:BC:28:LEU:HD11	1.99	0.44
37:BC:213:TYR:HD2	37:BC:221:SER:HB3	1.81	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:6:GLY:HA2	39:BE:51:PHE:CE2	2.52	0.44
39:BE:63:LEU:O	39:BE:63:LEU:CD2	2.59	0.44
41:BG:19:LEU:O	41:BG:22:ARG:CB	2.65	0.44
42:BH:71:LEU:CD2	42:BH:72:ILE:HD12	2.43	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
43:BJ:25:UNK:CB	43:BJ:85:LEU:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BO:33:ALA:CA	46:BO:37:ASP:OD2	2.64	0.44
48:BQ:42:ILE:HD12	48:BQ:42:ILE:HA	1.75	0.44
48:BQ:121:ALA:O	48:BQ:125:LEU:HD23	2.18	0.44
49:BR:45:ARG:O	49:BR:47:PHE:N	2.50	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
50:BS:106:ARG:O	50:BS:107:GLU:HB3	2.18	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:108:G:O6	20:AT:15:ARG:HD2	2.17	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
1:AA:1030(C):G:H2'	1:AA:1030(D):A:H8	1.81	0.44
1:AA:1092:A:C4	1:AA:1183:A:N6	2.85	0.44
1:AA:1139:G:N2	1:AA:1143:G:N1	2.65	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
2:AB:44:LEU:O	2:AB:45:GLN:C	2.56	0.44
2:AB:112:VAL:O	2:AB:113:HIS: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:O	13:AM:82:MET:HG2	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:9:GLU:HB2	24:AY:360:TYR:CZ	2.52	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

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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
32:B7:11:LYS:HE2	35:BA:686:G:C2	2.53	0.44
35:BA:58:G:N2	35:BA:70:G:C4	2.85	0.44
35:BA:310:A:H1'	35:BA:311:A:H2'	1.98	0.44
35:BA:662:G:C2	35:BA:663:G:C8	3.05	0.44
35:BA:864:G:N2	35:BA:913:U:O2	2.50	0.44
35:BA:1020:A:N1	35:BA:1141:U:H1'	2.33	0.44
35:BA:1138:G:H8	35:BA:1138:G:O5'	2.01	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:O2	35:BA:1493:C:C2'	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:N3	35:BA:2276:G:H2'	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
37:BC:21:THR:HG22	37:BC:225:ASN:HB2	2.00	0.44
37:BC:43:VAL:CG2	37:BC:214:VAL:HG22	2.40	0.44
37:BC:62:VAL:HG11	37:BC:192:PHE:HD1	1.81	0.44
37:BC:217:THR:HG22	37:BC:218:MET:H	1.79	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:7:TYR:CD2	40:BF:16:GLY:HA3	2.52	0.44
40:BF:32:LEU:HD21	40:BF:109:GLY:HA3	1.99	0.44
41:BG:57:ALA:O	41:BG:60:LEU:HB3	2.16	0.44
41:BG:139:LEU:C	41:BG:141:PHE:N	2.70	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:8:TYR:CB	57:BZ:38:TYR:CE2	3.00	0.44
57:BZ:24:LEU:CD1	57:BZ:41:LEU:HA	2.45	0.44
57:BZ:91:LEU:HD22	57:BZ:130:PRO:CB	2.46	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
1:AA:979:C:N4	1:AA:1360:A:H62	2.12	0.44
1:AA:989:C:O2	1:AA:1217:C:O2	2.36	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: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
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
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
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
24:AY:177:LYS:HZ1	42:BH:110:SER:HB3	1.82	0.44
26:B1:14:VAL:HG21	35:BA:189:G:OP2	2.17	0.44
26:B1:37:ILE:C	26:B1:37:ILE:HD12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:24:G:H2'	35:BA:25:U:O4'	2.18	0.44
35:BA:942:G:C5'	47:BP:36:LYS:N	2.80	0.44
35:BA:1028:A:C2	35:BA:1029:A:C5	3.05	0.44
35:BA:1142(A):A:C8	35:BA:1142(A):A:H5'	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:1414:G:N1	35:BA:1588:C:N4	2.55	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: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:2624:G:O5'	35:BA:2624:G:H8	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
37:BC:86:ALA:HB1	37:BC:153:ILE:HD12	1.99	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
38:BD:14:ARG:HH11	38:BD:14:ARG:CG	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:71:THR:HG22	41:BG:72:ARG:O	2.17	0.44
41:BG:121:ASN:OD1	41:BG:122:PRO:HD2	2.17	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:37:VAL:O	57:BZ:38:TYR:HB3	2.18	0.44
57:BZ:82:ARG:HG2	57:BZ:82:ARG:NH1	2.33	0.44
57:BZ:126:VAL:O	57:BZ:126:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AA:909:A:P	12:AL:21:LYS:HZ2	2.40	0.44
1:AA:1151:A:H4'	10:AJ:70:ARG:HH12	1.82	0.44
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
2:AB:60:ASP:HB3	2:AB:64:ARG:NH2	2.31	0.44
2:AB:102:LEU:O	2:AB:103:THR:C	2.55	0.44
3:AC:132:ARG:HH22	4:AD:47:ARG:HH22	1.65	0.44
4:AD:58:LEU:HD13	4:AD:58:LEU:C	2.38	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
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
10:AJ:64:GLU:O	14:AN:56:VAL:HA	2.18	0.44
10:AJ:84:GLN:H	10:AJ:84:GLN:HG3	1.59	0.44
12:AL:98:TYR:CD1	12:AL:98:TYR:N	2.85	0.44
13:AM:54:VAL:HG22	13:AM:57:ARG:NH1	2.33	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:13:ARG:CD	24:AY:363:ASP:CG	2.75	0.44
24:AY:87:LEU:O	24:AY:88:ASP:C	2.55	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:492:GLN:HB3	24:AY:504:ILE:CB	2.47	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:O	30:B5:59:GLU:CG	2.65	0.44
33:B8:32:LEU:O	33:B8:33:ASN:O	2.35	0.44
35:BA:70:G:H5''	35:BA:112:U:O2	2.18	0.44
35:BA:184:C:H4'	35:BA:217:G:N2	2.33	0.44
35:BA:221:A:H4'	35:BA:222:A:C5'	2.48	0.44
35:BA:292:C:C2'	35:BA:293:U:H5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
35:BA:917:A:H3'	35:BA:2268:A:H61	1.81	0.44
35:BA:1020:A:C2	35:BA:1141:U:C2	3.05	0.44
35:BA:1084:A:P	43:BJ:55:UNK:HA	2.57	0.44
35:BA:1112:G:C2	35:BA:1113:U:C2	3.05	0.44
35:BA:1139:G:C5'	45:BN:70:LYS:NZ	2.80	0.44
35:BA:1243:G:H1'	47:BP:8:PRO:O	2.17	0.44
35:BA:1247:A:O2'	35:BA:1248:G:C5'	2.65	0.44
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:2097:C:C2	35:BA:2193:G:C2	3.05	0.44
35:BA:2469:A:HO2'	48:BQ:56:ARG:HD2	1.82	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
37:BC:6:ARG:CZ	37:BC:10:LEU:HD21	2.46	0.44
37:BC:62:VAL:HG12	37:BC:161:ILE:HD11	1.98	0.44
37:BC:181:PRO:HG2	37:BC:184:LYS:HB2	1.99	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
47:BP:75:ILE:H	47:BP:75:ILE:CD1	2.31	0.44
48:BQ:120:ILE:HA	48:BQ:123:HIS:HD2	1.83	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:7:VAL:O	55:BX:30:VAL:HB	2.17	0.44
55:BX:57:LEU:HD11	55:BX:78:LYS:HE3	1.99	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: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:C8	1:AA:828:A:C3'	3.01	0.44
1:AA:1238:A:N3	1:AA:1238:A:H2'	2.31	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
2:AB:235:SER:HB2	2:AB:236:TYR:HD1	1.82	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:27:ILE:O	7:AG:27:ILE:CG2	2.65	0.44
7:AG:108:ALA:HB2	7:AG:123:GLU:HB3	1.99	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:182:A:C2	35:BA:183:C:C2	3.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:948:G:H1	35:BA:969:U:H3	1.65	0.44
35:BA:962:G:H2'	35:BA:963:U:C6	2.53	0.44
35:BA:980:A:C4	35:BA:1136:G:O4'	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:C5'	35:BA:1517:G:H8	2.31	0.44
35:BA:1820:U:C4	38:BD:202:LYS:HD3	2.52	0.44
35:BA:1833:U:N3	35:BA:1834:U:C5	2.86	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
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:2638:G:P	39:BE:82:ARG:NH2	2.91	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
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:31:LYS:HG3	38:BD:33:LEU:H	1.82	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
39:BE:49:LEU:HD11	39:BE:91:VAL:HG23	1.97	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
40:BF:158:THR:C	40:BF:160:ASN:N	2.71	0.44
40:BF:188:ARG:CA	47:BP:7:ARG:HD2	2.32	0.44
42:BH:18:GLU:HB2	42:BH:25:LYS:CG	2.47	0.44
42:BH:133:VAL:CG1	42:BH:134:SER:N	2.76	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
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:HD23	52:BU:95:LEU:HA	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:88:A:C2	1:AA:89:C:C5	3.06	0.44
1:AA:777:A:C2	1:AA:778:G:C4	3.05	0.44
1:AA:828:A:C5	1:AA:859:A:C8	3.05	0.44
1:AA:834:C:C2	1:AA:853:G:N2	2.85	0.44
1:AA:968:A:O2'	1:AA:969:A:OP1	2.31	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:1410:G:C5	1:AA:1491:G:N2	2.86	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
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: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
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
5:AE:78:HIS:CD2	5:AE:78:HIS:N	2.86	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
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:HD23	11:AK:98:LEU:HA	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:O	24:AY:119:VAL:HG12	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:B5:5:PRO:HB3	35:BA:2614:A:N9	2.32	0.44
30:B5:17:ASP:O	30:B5:20:ARG:N	2.51	0.44
32:B7:35:ARG:NH1	32:B7:35:ARG:HG2	2.33	0.44
35:BA:86:C:OP1	56:BY:32:PRO:HD2	2.18	0.44
35:BA:142:A:H1'	35:BA:1408:C:C1'	2.47	0.44
35:BA:242:G:N2	35:BA:243:U:O4	2.45	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:442:G:N2	40:BF:48:THR:HB	2.33	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:782:A:N1	38:BD:226:MET:CE	2.81	0.44
35:BA:830:G:C8	35:BA:2448:A:N3	2.86	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
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: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:2056:G:C8	35:BA:2577:A:C6	3.05	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: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
36:BB:5:C:H2'	36:BB:6:C:H6	1.82	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: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:3:HIS:ND1	37:BC:7:TYR:CD2	2.86	0.44
37:BC:77:ILE:O	37:BC:95:GLY:HA2	2.18	0.44
38:BD:69:ARG:CZ	38:BD:105:ILE:CG1	2.96	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

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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
39:BE:104:VAL:O	39:BE:166:THR:HG23	2.18	0.44
41:BG:104:GLU:O	41:BG:108:ASN:OD1	2.36	0.44
41:BG:159:VAL:O	41:BG:159:VAL:HG22	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:CD1	47:BP:91:PHE:N	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:9:TYR:CE1	57:BZ:63:ASP:OD2	2.71	0.44
57:BZ:151:HIS:HB3	57:BZ:170:THR:CA	2.46	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:688:G:O2'	1:AA:704:A:N1	2.45	0.44
1:AA:699:C:H2'	1:AA:700:G:O4'	2.17	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:H3'	1:AA:906:G:C8	2.53	0.44
1:AA:980:C:H5'	1:AA:981:U:C5	2.53	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:1326:C:OP1	21:AU:12:LYS:HE3	2.18	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
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:55:VAL:HG22	3:AC:68:VAL:HG12	1.95	0.44
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.81	0.44
6:AF:52:ILE:HG21	6:AF:87:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:18:TYR:CB	7:AG:59:LEU:HD13	2.48	0.44
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
22:AV:48:C:OP1	22:AV:48:C:C6	2.62	0.44
24:AY:15:THR:HG22	24:AY:106:VAL:HA	2.00	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: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:HE2	25:B0:53:MET:HB3	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:B6:8:LYS:O	31:B6:9:LEU:HB3	2.16	0.44
31:B6:18:ARG:HG3	31:B6:19:ARG:N	2.30	0.44
35:BA:85:G:N2	35:BA:103:A:C2	2.86	0.44
35:BA:244:A:H3'	35:BA:245:G:O4'	2.18	0.44
35:BA:252:G:O2'	35:BA:253:C:O4'	2.30	0.44
35:BA:271(G):C:O5'	35:BA:271(G):C:H6	2.01	0.44
35:BA:695:G:C2	35:BA:696:G:C8	3.05	0.44
35:BA:833:U:C5'	47:BP:48:PRO:CB	2.88	0.44
35:BA:884:C:C2	35:BA:892:G:N2	2.86	0.44
35:BA:1058:G:OP1	44:BK:2:UNK:N	2.51	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:1277:G:HO2'	49:BR:24:GLN:HG2	1.81	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:2469:A:N1	35:BA:2481:G:H1'	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
36:BB:16:G:O2'	36:BB:17:C:C6	2.67	0.44
37:BC:59:ARG:NH2	37:BC:142:ALA:CB	2.81	0.44
37:BC:103:ILE:HG23	37:BC:107:TRP:CD1	2.53	0.44
38:BD:37:LEU:CD1	38:BD:62:TYR:CD1	3.00	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
39:BE:67:PHE:CD1	39:BE:68:ALA:N	2.77	0.44
39:BE:172:VAL:O	39:BE:172:VAL:HG12	2.18	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
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
45:BN:107:LEU:O	45:BN:108:PRO:O	2.35	0.44
49:BR:78:LYS:O	49:BR:78:LYS:HG2	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:HD3	54:BW:41:LYS:HA	1.77	0.44
56:BY:38:ILE:HD12	56:BY:38:ILE:HA	1.65	0.44
57:BZ:42:VAL:CG1	57:BZ:43:GLU:H	2.27	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
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:878:G:H5'	8:AH:89:PRO:CG	2.47	0.44
1:AA:892:A:C4	1:AA:907:A:C6	3.06	0.44
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
1:AA:1034:G:C2	1:AA:1035:A:N7	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:AB:7:VAL:HA	2:AB:11:LEU:CD1	2.48	0.44
2:AB:47:THR:O	2:AB:48:MET:C	2.56	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
4:AD:19:LEU:CD2	4:AD:21:LEU:HD21	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
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:37:ASN:HD21	9:AI:40:LEU:CD2	2.30	0.44
7:AG:139:GLU:O	7:AG:140:ASP:C	2.56	0.44
8:AH:30:ARG:NH1	8:AH:30:ARG:CB	2.81	0.44
11:AK:71:LYS:O	11:AK:75:TYR:CD1	2.70	0.44
12:AL:86:ARG:HH21	12:AL:99:HIS:CG	2.35	0.44
12:AL:105:TYR:O	24:AY:434:ASN:ND2	2.51	0.44
13:AM:89:GLY:O	13:AM:90:LEU:C	2.56	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
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:9:ARG:HD3	21:AU:13:ILE:HD11	1.99	0.44
21:AU:12:LYS:O	21:AU:17:THR:N	2.45	0.44
22:AV:63:G:H2'	22:AV:64:G:O4'	2.18	0.44
24:AY:34:LEU:HD23	24:AY:34:LEU:N	2.33	0.44
24:AY:68:ILE:CD1	24:AY:92:HIS:CE1	3.01	0.44
24:AY:136:PRO:HB3	24:AY:246:PHE:CZ	2.53	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
26:B1:76:ARG:CA	35:BA:271(Q):G:H4'	2.42	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
29:B4:6:HIS:HB3	41:BG:67:LYS:HE2	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
34:B9:18:ARG:O	34:B9:19:ARG:HB3	2.18	0.44
35:BA:205:G:HO2'	35:BA:206:U:P	2.37	0.44
35:BA:263:C:O4'	35:BA:430:G:H1'	2.17	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:H6	35:BA:486:C:O5'	2.01	0.44
35:BA:579:G:H1	35:BA:1261:C:N4	2.15	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
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: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: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:2711:A:C3'	35:BA:2712:U:H5'	2.48	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
36:BB:45:A:H1'	41:BG:95:ARG:CZ	2.48	0.44
37:BC:6:ARG:NH2	37:BC:7:TYR:CA	2.67	0.44
37:BC:22:ILE:O	37:BC:186:ALA:HB2	2.18	0.44
37:BC:149:ILE:O	37:BC:153:ILE:HG13	2.18	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:ND2	39:BE:169:ASN:O	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

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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
48:BQ:141:GLN:OE1	57:BZ:72:ARG:HA	2.18	0.44
49:BR:117:VAL:HG22	49:BR:118:GLU:N	2.33	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
51:BT:110:ILE:C	51:BT:112:ARG:H	2.21	0.44
53:BV:52:VAL:O	53:BV:52:VAL:CG2	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
1:AA:59:A:N1	1:AA:331:G:N3	2.65	0.43
1:AA:105:G:O2'	1:AA:106:C:H5'	2.18	0.43
1:AA:253:U:H5''	17:AQ:68:ARG:HD2	2.00	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:390:C:O3'	16:AP:28:ARG:NH2	2.51	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
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: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
2:AB:10:LEU:HD13	2:AB:10:LEU:O	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:29:PRO:O	4:AD:30:LYS:HB3	2.18	0.43
4:AD:135:LEU:O	4:AD:136:PRO:C	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:39:LEU:HB3	15:AO:56:LEU:HD11	2.00	0.43
15:AO:53:HIS:O	15:AO:54:ARG:C	2.56	0.43
15:AO:70:LEU:HD12	15:AO:78:TYR:HD1	1.83	0.43
17:AQ:29:HIS:CE1	17:AQ:32:TYR:CD2	3.05	0.43
20:AT:61:SER:O	20:AT:62:LEU:C	2.57	0.43
24:AY:9:GLU:HB2	24:AY:360:TYR:OH	2.18	0.43
24:AY:99:THR:O	24:AY:101:ARG:N	2.51	0.43
24:AY:113:ILE:HG23	24:AY:118:GLY:C	2.39	0.43
24:AY:169:ILE:CD1	24:AY:275:TRP:CZ2	3.01	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:282:ARG:O	24:AY:283:GLN:CG	2.66	0.43
24:AY:384:MET:O	24:AY:385:MET:CB	2.65	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
32:B7:10:ARG:NH2	35:BA:1378:A:H5''	2.32	0.43
35:BA:269:U:C4	35:BA:271(Y):U:C2	3.05	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
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
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:1310:G:O4'	35:BA:1611:C:H5''	2.18	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
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:1619:G:O5'	35:BA:1619:G:C8	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:2628:C:C2'	35:BA:2781:A:H2'	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2650:U:H2'	35:BA:2651:C:H6	1.84	0.43
35:BA:2690:C:H5''	35:BA:2872:G:H22	1.82	0.43
35:BA:2860:A:C8	35:BA:2861:G:H1'	2.53	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:HD12	38:BD:75:ILE:N	2.32	0.43
40:BF:70:THR:O	40:BF:72:ARG:N	2.51	0.43
40:BF:195:ASP:O	40:BF:199:TRP:HB2	2.18	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: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
47:BP:113:LYS:HG2	47:BP:114:ILE:N	2.32	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:NH1	56:BY:2:ARG:HG2	2.33	0.43
57:BZ:6:LYS:N	57:BZ:6:LYS:HD3	2.33	0.43
1:AA:106:C:N4	20:AT:14:LYS:CE	2.81	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
1:AA:1030(B):C:O5'	1:AA:1030(B):C:H6	2.01	0.43
1:AA:1068:G:C6	1:AA:1108:G:C2	3.06	0.43
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	2.00	0.43
1:AA:1406:U:H2'	1:AA:1407:C:C5'	2.48	0.43
1:AA:1406:U:C6	1:AA:1407:C:C6	3.06	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:21:ARG:CG	3:AC:58:GLU:HG2	2.43	0.43
3:AC:83:ARG:O	3:AC:85:ARG:N	2.51	0.43
3:AC:150:LYS:HE3	3:AC:167:TRP:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:52:SER:O	4:AD:56:VAL:CG2	2.67	0.43
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
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:N	12:AL:20:LYS:CD	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:13:ARG:NH1	24:AY:83:LEU:HD12	2.32	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
26:B1:46:LEU:HD22	26:B1:63:ALA:HA	2.00	0.43
27:B2:14:ARG:HH22	35:BA:78:A:H5'	1.81	0.43
28:B3:8:LEU:CD1	28:B3:31:LEU:HA	2.48	0.43
28:B3:9:VAL:HG11	28:B3:55:ARG:HD3	2.01	0.43
28:B3:15:TYR:O	28:B3:20:LYS:NZ	2.46	0.43
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.33	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:203:C:P	35:BA:204:A:H3'	2.57	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:258:G:H8	35:BA:258:G:O5'	2.00	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
35:BA:833:U:H5''	47:BP:48:PRO:HB3	1.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:2073:C:C6	35:BA:2073:C:H3'	2.52	0.43
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: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:2820:A:H8	39:BE:109:LYS:HE2	1.83	0.43
37:BC:114:VAL:HG12	37:BC:144:THR:CG2	2.48	0.43
38:BD:14:ARG:HG2	38:BD:14:ARG:NH1	2.22	0.43
38:BD:181:GLU:OE2	38:BD:270:ILE:HG21	2.18	0.43
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.18	0.43
38:BD:221:VAL:O	38:BD:221:VAL:CG2	2.66	0.43
40:BF:3:GLU:HA	40:BF:24:LEU:HB2	2.00	0.43
40:BF:131:GLY:CA	40:BF:138:GLU:O	2.65	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
45:BN:38:HIS:O	52:BU:67:ALA:HB1	2.17	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:CB	51:BT:16:ARG:NH1	2.80	0.43
52:BU:24:TYR:O	52:BU:29:SER:HB3	2.18	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:8:TYR:CD2	57:BZ:38:TYR:CZ	3.06	0.43
57:BZ:28:MET:HA	57:BZ:88:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:63:ASP:O	57:BZ:65:GLN:N	2.51	0.43
57:BZ:128:VAL:HG11	57:BZ:133:ILE:HD13	2.00	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:80:G:N1	1:AA:90:U:H5'	2.32	0.43
1:AA:106:C:N4	20:AT:14:LYS:HZ1	2.15	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:570:G:O4'	1:AA:820:U:O2	2.35	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
1:AA:1060:C:C5	3:AC:2:GLY:HA3	2.54	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
2:AB:201:ILE:C	2:AB:202:PRO:O	2.53	0.43
4:AD:3:ARG:O	4:AD:4:TYR:C	2.56	0.43
4:AD:155:LEU:CB	4:AD:158:ILE:HG12	2.43	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:8:ASN:O	12:AL:12:ARG:HG3	2.19	0.43
12:AL:60:LEU:HD11	12:AL:85:ILE:HG12	2.00	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:19:ILE:HD12	24:AY:127:MET:HG2	2.00	0.43
24:AY:21:HIS:CD2	24:AY:122:ARG:HG2	2.53	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
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
25:B0:25:ARG:HG2	25:B0:25:ARG:NH1	2.31	0.43
26:B1:50:ARG:CG	26:B1:59:THR:HG22	2.47	0.43
32:B7:4:THR:HG22	35:BA:789:A:H5'	1.99	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:7:G:H8	35:BA:7:G:O5'	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:16:G:H1	35:BA:524:U:H3	1.66	0.43
35:BA:76:C:H2'	35:BA:77:C:H6	1.79	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:779:U:O5'	35:BA:779:U:H6	2.00	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:976:C:C5'	35:BA:1156:A:N6	2.81	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
35:BA:1009:A:O4'	52:BU:59:ARG:HG2	2.17	0.43
35:BA:1645:G:H5''	35:BA:1646:C:C5'	2.49	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
38:BD:24:ILE:O	38:BD:25:THR:C	2.56	0.43
38:BD:117:VAL:HG21	38:BD:129:ASN:N	2.33	0.43
39:BE:13:ARG:HA	39:BE:23:VAL:HG22	1.99	0.43
40:BF:125:LEU:N	40:BF:125:LEU:CD2	2.77	0.43
41:BG:7:LEU:O	41:BG:9:ARG:N	2.51	0.43
41:BG:72:ARG:CZ	41:BG:86:MET:HA	2.47	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:42:G:O2'	1:AA:622:A:N1	2.47	0.43
1:AA:131:C:O2	1:AA:131:C:C2'	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:670:G:H8	1:AA:670:G:O5'	2.01	0.43
1:AA:716:A:H2'	1:AA:717:C:O4'	2.18	0.43
1:AA:1306:A:C4	1:AA:1307:U:C6	3.06	0.43
2:AB:102:LEU:CD2	2:AB:176:GLU:HB3	2.34	0.43
2:AB:124:SER:O	2:AB:126:GLU:N	2.49	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:60:LYS:O	7:AG:63:LYS:HB3	2.18	0.43
7:AG:127:ALA:O	7:AG:130:GLY:N	2.50	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:32:LYS:O	24:AY:35:LEU:CB	2.65	0.43
24:AY:105:ALA:CA	24:AY:319:ARG:NH1	2.56	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
32:B7:33:ARG:HD2	35:BA:467:G:OP1	2.18	0.43
35:BA:45:C:H5''	35:BA:215:G:OP2	2.18	0.43
35:BA:109:G:C5'	35:BA:348:G:H4'	2.49	0.43
35:BA:124:G:H8	35:BA:124:G:O5'	2.00	0.43
35:BA:143:G:O4'	55:BX:37:THR:HG21	2.17	0.43
35:BA:185:U:C4'	35:BA:218:A:H4'	2.49	0.43
35:BA:187:G:H1	35:BA:209:C:H42	1.67	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: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:782:A:N1	38:BD:226:MET:HG2	2.24	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
35:BA:1025:G:H1'	35:BA:1135:C:O4'	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1242:A:C6	47:BP:8:PRO:HB2	2.53	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:H3'	35:BA:1647:G:OP2	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:2106:G:H2'	35:BA:2107:C:C1'	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
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:2:ALA:O	38:BD:3:VAL:CG2	2.59	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
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
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:25:ARG:CA	54:BW:71:VAL:HG11	2.28	0.43
54:BW:76:VAL:HG22	54:BW:101:SER:HB2	2.00	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:108:G:N3	1:AA:108:G:H5''	2.33	0.43
1:AA:139:G:H2'	1:AA:140:A:C8	2.54	0.43
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.18	0.43
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.19	0.43
1:AA:933:G:OP2	7:AG:3:ARG:HB2	2.19	0.43
1:AA:959:A:C4'	1:AA:985:C:H4'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1015:A:O2'	14:AN:15:LYS:NZ	2.48	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
2:AB:82:ARG:HH11	2:AB:82:ARG:HG2	1.84	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
3:AC:35:GLU:O	3:AC:36:ASP:C	2.57	0.43
4:AD:82:ALA:O	4:AD:89:THR:HG22	2.19	0.43
4:AD:170:VAL:O	4:AD:171:GLY:O	2.36	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
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:60:VAL:CG1	13:AM:61:GLU:N	2.73	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
14:AN:29:ARG:HH11	14:AN:29:ARG:HG3	1.84	0.43
15:AO:24:SER:OG	15:AO:27:VAL:CG2	2.66	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:CD	25:B0:27:GLU:N	2.72	0.43
26:B1:7:ILE:CG2	26:B1:66:HIS:HD2	2.31	0.43
30:B5:9:LYS:HE3	35:BA:2019:A:N7	2.34	0.43
32:B7:5:TRP:HD1	35:BA:1612:C:O3'	2.00	0.43
35:BA:182:A:H2	35:BA:433:C:O2	2.00	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:534:U:O5'	35:BA:534:U:H6	2.01	0.43
35:BA:553:G:C2'	35:BA:554:U:H5'	2.48	0.43
35:BA:558:G:OP2	45:BN:111:PRO:HD2	2.17	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:C8	35:BA:783:A:H3'	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
35:BA:1023:U:H4'	35:BA:1123:C:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1072:C:O2	35:BA:1094:U:O4	2.36	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:1665:A:H1'	46:BO:1:MET:SD	2.59	0.43
35:BA:1797:C:N4	35:BA:1822:G:H1	2.16	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:2345:G:N2	35:BA:2382:G:H8	2.16	0.43
35:BA:2348:U:H5	35:BA:2382:G:C2	2.35	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
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.48	0.43
35:BA:2877:G:H8	35:BA:2877:G:OP2	2.02	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: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
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
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
49:BR:87:TYR:C	49:BR:89:ASP:H	2.22	0.43
51:BT:91:ARG:HG2	51:BT:116:ALA:CA	2.46	0.43
51:BT:91:ARG:CG	51:BT:116:ALA:HA	2.45	0.43
52:BU:12:ARG:HA	52:BU:15:LYS:HE2	1.99	0.43
52:BU:80:ILE:O	52:BU:80:ILE:CG2	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:31:ARG:HG3	57:BZ:32:HIS:ND1	2.34	0.43
57:BZ:169:GLU:O	57:BZ:170:THR:C	2.56	0.43
1:AA:80:G:H5'	1:AA:82:U:OP2	2.18	0.43
1:AA:393:A:C6	1:AA:394:G:N7	2.86	0.43
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:682:G:C2	1:AA:683:G:C8	3.07	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
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:1423:G:C5'	46:BO:49:ARG:NH1	2.79	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:30:ARG:HG3	14:AN:37:PHE:O	2.19	0.43
3:AC:101:LEU:HD23	3:AC:101:LEU:HA	1.64	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:18:THR:CG2	17:AQ:69:LYS:HD2	2.48	0.43
17:AQ:60:ILE:CG1	17:AQ:61:GLU:N	2.81	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:26:LYS:HG2	58:AY:1000:GCP:PB	2.58	0.43
24:AY:96:SER:HA	24:AY:99:THR:OG1	2.19	0.43
24:AY:113:ILE:CG2	24:AY:114:ASP:N	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
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:2283:C:N4	35:BA:2389:G:C6	2.87	0.43
35:BA:2345:G:N7	35:BA:2372:G:C2	2.86	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:2591:C:OP1	38:BD:239:ARG:HB2	2.19	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
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
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:HH11	40:BF:17:ARG:HG3	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
47:BP:96:THR:O	47:BP:100:LEU:CD2	2.67	0.43
47:BP:144:GLU:O	47:BP:144:GLU:HG2	2.19	0.43
48:BQ:74:TYR:C	48:BQ:74:TYR:CD1	2.92	0.43
48:BQ:109:VAL:O	48:BQ:109:VAL:HG12	2.18	0.43
48:BQ:127:ILE:CD1	48:BQ:128:LYS:O	2.67	0.43
50:BS:23:ARG:O	50:BS:24:LEU:O	2.37	0.43
50:BS:24:LEU:HB2	50:BS:85:VAL:HG12	1.99	0.43
50:BS:84:GLN:O	50:BS:85:VAL:HG13	2.17	0.43
50:BS:106:ARG:HD3	50:BS:107:GLU:O	2.18	0.43
52:BU:59:ARG:HG2	52:BU:59:ARG:HH11	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:8:TYR:HD2	57:BZ:38:TYR:CZ	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:BZ:40:ASP:OD1	57:BZ:42:VAL:N	2.51	0.43
1:AA:8:A:H5'	5:AE:120:THR:O	2.19	0.43
1:AA:59:A:H5'	1:AA:60:A:C5'	2.49	0.43
1:AA:323:U:H4'	20:AT:22:ARG:HB2	2.01	0.43
1:AA:448:A:C2	1:AA:487:A:C2	3.07	0.43
1:AA:488:C:O5'	1:AA:488:C:H6	2.02	0.43
1:AA:557:G:H3'	1:AA:558:G:C8	2.54	0.43
1:AA:585:G:C4'	12:AL:8:ASN:HD22	2.21	0.43
1:AA:619:U:O2	4:AD:134:ASP:OD1	2.36	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:886:G:N2	1:AA:912:C:H1'	2.34	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:O5'	1:AA:1055:A:C8	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:H8	1:AA:1492:A:P	2.41	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
5:AE:103:GLY:O	5:AE:106:PRO:HG2	2.18	0.43
6:AF:49:ALA:HB2	18:AR:78:LEU:O	2.17	0.43
7:AG:18:TYR:HB3	7:AG:59:LEU:HD13	2.00	0.43
7:AG:111:ARG:NH1	7:AG:113:GLU:OE2	2.52	0.43
9:AI:53:VAL:HG13	9:AI:95:LYS:HZ1	1.81	0.43
10:AJ:53:PRO:CB	14:AN:42:ILE:HG13	2.48	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
18:AR:84:LYS:NZ	18:AR:84:LYS:N	2.67	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:131:G:C2	35:BA:132:G:C5	3.07	0.43
35:BA:240:G:O2'	35:BA:257:A:N6	2.52	0.43
35:BA:270:A:O2'	35:BA:271:A:H5'	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:573:G:O2'	35:BA:574:C:H3'	2.18	0.43
35:BA:578:A:H4'	35:BA:1254:A:OP1	2.19	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
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:1108:U:P	43:BJ:80:UNK:HA	2.58	0.43
35:BA:1759:A:H2'	35:BA:1760:A:H8	1.83	0.43
35:BA:1816:G:C8	38:BD:62:TYR:CZ	3.06	0.43
35:BA:2049:G:C2	35:BA:2620:C:N3	2.87	0.43
35:BA:2115:G:N3	35:BA:2117:A:N7	2.67	0.43
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:2472:G:H8	35:BA:2472:G:OP2	2.00	0.43
35:BA:2640:G:C2'	35:BA:2641:G:H5''	2.47	0.43
35:BA:2729:G:H1'	39:BE:187:ALA:HB3	1.97	0.43
37:BC:44:HIS:CA	37:BC:171:ILE:O	2.67	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
38:BD:51:VAL:HG11	38:BD:54:ARG:HE	1.84	0.43
38:BD:271:ILE:CG1	38:BD:272:ALA:N	2.82	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
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:HE3	53:BV:10:LYS:HB2	1.81	0.43
55:BX:26:TYR:N	55:BX:26:TYR:HD1	2.17	0.43
55:BX:57:LEU:HD22	55:BX:58:HIS:N	2.34	0.43
1:AA:80:G:H5''	1:AA:81:U:H5	1.83	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
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1117:G:H5'	1:AA:1117:G:C8	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
2:AB:70:PHE:HD1	2:AB:70:PHE:H	1.65	0.43
2:AB:108:ILE:O	2:AB:111:ARG:HB2	2.19	0.43
2:AB:195:ASP:OD1	2:AB:195:ASP:N	2.52	0.43
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.49	0.43
8:AH:38:ILE:HG21	8:AH:120:THR:HG22	2.01	0.43
8:AH:104:ARG:HD2	8:AH:104:ARG:HA	1.86	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:84:VAL:CG1	24:AY:85:ASN:N	2.82	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
25:B0:37:LEU:O	25:B0:38:VAL:HG23	2.19	0.43
25:B0:41:ARG:HD2	25:B0:41:ARG:HA	1.54	0.43
29:B4:6:HIS:HA	41:BG:67:LYS:HD2	1.99	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:252:G:H2'	35:BA:253:C:H6	1.83	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:616:G:H5'	40:BF:107:LYS:NZ	2.33	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1466:G:H2'	35:BA:1547:C:N4	2.34	0.43
35:BA:1475:G:H5'	35:BA:1476:C:OP2	2.17	0.43
35:BA:1936:A:H5''	35:BA:1940:U:C5	2.53	0.43
35:BA:1966:A:H2	35:BA:2592:G:N3	2.16	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:2578:G:H1'	39:BE:139:GLY:HA2	2.00	0.43
37:BC:10:LEU:HG	37:BC:32:LEU:O	2.19	0.43
37:BC:23:ASP:O	37:BC:27:HIS:HB2	2.17	0.43
37:BC:59:ARG:HG2	37:BC:59:ARG:O	2.18	0.43
38:BD:65:ILE:CD1	38:BD:88:ARG:NH1	2.82	0.43
38:BD:203:ASN:O	38:BD:204:ILE:C	2.54	0.43
39:BE:36:ARG:HH11	39:BE:36:ARG:HG2	1.83	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:57:ALA:O	41:BG:60:LEU:N	2.44	0.43
41:BG:107:LEU:CD2	41:BG:178:PHE:CE1	3.02	0.43
41:BG:143:GLU:O	41:BG:144:ILE:C	2.57	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:286:G:H2'	1:AA:287:U:O4'	2.18	0.43
1:AA:532:A:C2	3:AC:156:ARG:NH2	2.87	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
1:AA:1060:C:C5'	14:AN:45:ARG:HH21	2.31	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:11:ARG:O	3:AC:12:LEU:C	2.56	0.43
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:83:VAL:HG11	12:AL:107:ALA:HB2	1.98	0.43
12:AL:104:VAL:HG12	12:AL:105:TYR:N	2.33	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:25:U:H4'	54:BW:79:GLY:HA2	2.00	0.43
35:BA:49:A:N1	35:BA:118:A:C2	2.87	0.43
35:BA:59:U:O2'	35:BA:73:A:H2'	2.19	0.43
35:BA:116:C:C2'	35:BA:117:G:H5'	2.49	0.43
35:BA:143:G:C6	35:BA:143(A):C:C4	3.07	0.43
35:BA:285:C:O2'	35:BA:286:C:H5'	2.18	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:786:C:O2'	35:BA:787:U:H5'	2.18	0.43
35:BA:816:C:N4	35:BA:1192:G:N1	2.65	0.43
35:BA:1009:A:H8	35:BA:1009:A:O5'	2.01	0.43
35:BA:1266:G:O2'	35:BA:2012:G:N1	2.52	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: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:2038:G:C6	35:BA:2039:C:C4	3.06	0.43
35:BA:2051:A:C5'	35:BA:2578:G:O5'	2.66	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:2870:C:OP1	49:BR:61:HIS:CE1	2.66	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:69:ARG:NE	38:BD:105:ILE:CD1	2.75	0.43
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.19	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:48:UNK:O	43:BJ:49:UNK:CB	2.67	0.43
43:BJ:119:UNK:O	43:BJ:120:UNK:CB	2.67	0.43
46:BO:8:LEU:N	46:BO:8:LEU:CD1	2.82	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
47:BP:62:LEU:H	47:BP:62:LEU:HD23	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:5:ALA:HA	51:BT:8:LYS:HG3	2.01	0.43
51:BT:8:LYS:HA	51:BT:11:GLU:CD	2.39	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:57:ILE:CD1	57:BZ:70:LEU:HA	2.42	0.43
57:BZ:128:VAL:HG13	57:BZ:133:ILE:CD1	2.49	0.43
1:AA:527:G:O2'	1:AA:535:A:N1	2.39	0.43
1:AA:580:U:OP1	15:AO:54:ARG:NH2	2.52	0.43
1:AA:604:G:C6	1:AA:605:U:C4	3.07	0.43
1:AA:642:A:N7	8:AH:115:SER:HA	2.34	0.43
1:AA:667:G:C4'	15:AO:51:HIS:HD1	2.32	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
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:H6	1:AA:1203:C:O5'	2.00	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
2:AB:218:ALA:O	2:AB:221:LEU:N	2.52	0.43
3:AC:111:LEU:HD23	3:AC:111:LEU:HA	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
15:AO:38:ARG:HD2	15:AO:38:ARG:HA	1.75	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:150:C:H2'	35:BA:151:C:C6	2.53	0.43
35:BA:247:G:N2	35:BA:250:G:H5''	2.34	0.43
35:BA:362:U:O5'	35:BA:363:G:OP2	2.36	0.43
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:601:C:H42	35:BA:656:G:H1	1.67	0.43
35:BA:638:G:C6	35:BA:651:G:N1	2.87	0.43
35:BA:644:A:H2	35:BA:2369:A:O2'	2.01	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
35:BA:1153:C:H2'	35:BA:1153:C:O2	2.18	0.43
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.19	0.43
35:BA:1382:G:H4'	35:BA:1573:G:N2	2.33	0.43
35:BA:1415:U:H6	35:BA:1415:U:H3'	1.84	0.43
35:BA:1572:A:O2'	35:BA:1573:G:C5'	2.55	0.43
35:BA:1701:A:H3'	35:BA:1702:G:H8	1.84	0.43
35:BA:1718:G:H5'	35:BA:1718:G:C8	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:O5'	35:BA:1916:A:H8	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:2052:G:H4'	39:BE:143:ASN:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2234:G:N3	35:BA:2235:G:C8	2.87	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:2691:C:H6	35:BA:2691:C:C5'	2.28	0.43
35:BA:2821:A:H2'	35:BA:2822:G:H8	1.79	0.43
35:BA:2839:G:H1'	49:BR:93:GLY:H	1.82	0.43
36:BB:21:G:N3	36:BB:21:G:O4'	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
39:BE:59:VAL:CG1	39:BE:63:LEU:HG	2.48	0.43
40:BF:172:TRP:CD1	40:BF:172:TRP:N	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
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:24:GLY:CA	55:BX:82:GLN:NE2	2.82	0.43
55:BX:35:THR:HG22	55:BX:37:THR:N	2.33	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:100:C:H2'	1:AA:101:A:C8	2.54	0.42
1:AA:123:C:O2'	1:AA:290:C:H1'	2.19	0.42
1:AA:286:G:C5	1:AA:287:U:C5	3.07	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
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
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HD13	12:AL:85:ILE:HA	1.70	0.42
13:AM:69:GLU:O	13:AM:69:GLU:HG3	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:B0:38:VAL:CB	25:B0:59:LEU:HD12	2.49	0.42
25:B0:45:PHE:O	25:B0:59:LEU:HD11	2.19	0.42
29:B4:10:VAL:CG2	29:B4:11:PRO:CD	2.92	0.42
30:B5:13:LYS:NZ	35:BA:516:C:OP1	2.45	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:199:A:C2	35:BA:2433:A:C4	3.06	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
35:BA:670:A:H4'	35:BA:671:C:C5'	2.49	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:1275:A:C6	49:BR:16:HIS:HA	2.54	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:1669:A:OP2	35:BA:2550:G:OP1	2.36	0.42
35:BA:1844:C:N3	35:BA:1845:G:N7	2.66	0.42
35:BA:1895:C:H6	35:BA:1895:C:C5'	2.25	0.42
35:BA:2007:C:C4'	35:BA:2824:C:H4'	2.49	0.42
35:BA:2048:G:H4'	35:BA:2823:A:C2	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2441:C:O2'	35:BA:2442:C:H5'	2.18	0.42
35:BA:2821:A:N6	35:BA:2822:G:C6	2.87	0.42
36:BB:101:G:H2'	36:BB:102:A:C1'	2.49	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
38:BD:208:LYS:HG2	38:BD:210:GLY:O	2.19	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:19:GLU:HG2	45:BN:56:ASN:OD1	2.19	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
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
50:BS:26:LEU:HD22	50:BS:26:LEU:O	2.18	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
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:60:A:OP1	1:AA:60:A:H8	2.01	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: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
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:H6	1:AA:1212:U:H2'	1.64	0.42
1:AA:1220:G:N2	19:AS:54:GLY:CA	2.79	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
3:AC:141:VAL:O	3:AC:144:SER:HB3	2.19	0.42
4:AD:9:CYS:C	4:AD:12:CYS:HB2	2.40	0.42
4:AD:59:ARG:NH1	4:AD:59:ARG:HG2	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:28:ALA:CB	8:AH:57:PRO:HB2	2.40	0.42
9:AI:95:LYS:HE2	9:AI:95:LYS:HB2	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
21:AU:18:TYR:CE2	21:AU:24:ARG:HA	2.54	0.42
24:AY:65:GLN:O	24:AY:66:ARG:C	2.58	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:HD3	24:AY:454:LYS:C	2.40	0.42
24:AY:467:ASN:O	24:AY:506:THR:HG23	2.19	0.42
30:B5:37:LYS:O	30:B5:37:LYS:HG3	2.19	0.42
30:B5:39:MET:O	54:BW:38:TYR:CE2	2.71	0.42
32:B7:3:ARG:O	35:BA:687:C:H4'	2.19	0.42
34:B9:17:ILE:CG2	34:B9:18:ARG:N	2.82	0.42
35:BA:84:A:N3	35:BA:85:G:H1'	2.34	0.42
35:BA:119:A:H4'	35:BA:120:U:H5'	2.01	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
35:BA:792:G:O2'	35:BA:2440:C:N3	2.46	0.42
35:BA:837:C:C4	35:BA:941:A:N6	2.87	0.42
35:BA:1009:A:N3	35:BA:1154:G:H5'	2.34	0.42
35:BA:1057:A:H2	35:BA:1082:U:N3	2.09	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:2443:C:C6	35:BA:2443:C:C3'	3.02	0.42
35:BA:2641:G:C2	35:BA:2774:C:N3	2.87	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:2801(A):A:C4'	35:BA:2802:G:H2'	2.48	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:41:VAL:CG1	37:BC:43:VAL:HG23	2.47	0.42
37:BC:213:TYR:CE1	37:BC:223:ARG:HG3	2.54	0.42
38:BD:143:HIS:O	38:BD:143:HIS:CG	2.72	0.42
38:BD:182:LEU:H	38:BD:272:ALA:CA	2.31	0.42
38:BD:250:TRP:HE3	38:BD:252:TRP:HE1	1.67	0.42
39:BE:27:LEU:HD23	51:BT:1:MET:N	2.34	0.42
41:BG:71:THR:HG22	41:BG:72:ARG:H	1.80	0.42
41:BG:170:ARG:O	41:BG:174:GLU:CB	2.67	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: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
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	2.19	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
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:HH11	2:AB:82:ARG:CG	2.32	0.42
2:AB:145:LEU:HD22	2:AB:145:LEU:HA	1.75	0.42
3:AC:47:LEU:HD12	3:AC:47:LEU:HA	1.88	0.42
3:AC:113:ALA:HB2	3:AC:202:ILE:HG13	2.01	0.42
4:AD:158:ILE:O	4:AD:162:LEU:HD23	2.18	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
5:AE:105:VAL:N	5:AE:106:PRO:CD	2.82	0.42
6:AF:12:PRO:HD2	6:AF:55:ASP:OD2	2.19	0.42
7:AG:26:PHE:CE2	7:AG:124:LEU:HD11	2.54	0.42
7:AG:120:ILE:O	7:AG:123:GLU:N	2.52	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

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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
28:B3:30:ARG:NH2	35:BA:1158:C:OP1	2.36	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:B7:7:PRO:HG3	35:BA:1612:C:C5'	2.46	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
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
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
35:BA:1171:G:H8	35:BA:1171:G:OP2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2250:G:C5	48:BQ:83:MET:HB3	2.53	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
36:BB:75:G:C2'	57:BZ:85:HIS:HE1	2.29	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: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
38:BD:119:ALA:CB	38:BD:130:ALA:HB3	2.48	0.42
39:BE:184:VAL:C	39:BE:186:GLY:N	2.72	0.42
40:BF:98:SER:OG	40:BF:99:TYR:N	2.52	0.42
40:BF:122:LYS:CG	40:BF:191:ARG:HG3	2.49	0.42
40:BF:125:LEU:HD12	40:BF:196:LEU:HD23	2.00	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:O	46:BO:77:ILE:HG23	2.19	0.42
48:BQ:111:GLU:O	48:BQ:114:ALA:N	2.52	0.42
49:BR:18:LEU:HD13	49:BR:18:LEU:C	2.40	0.42
50:BS:30:ARG:HB3	50:BS:89:ARG:NH1	2.33	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:93:LYS:HD2	50:BS:93:LYS:HA	1.90	0.42
51:BT:50:ILE:CD1	51:BT:64:ARG:HB2	2.50	0.42
51:BT:106:SER:C	51:BT:107:ASP:OD1	2.57	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:63:ASP:C	57:BZ:65:GLN:N	2.70	0.42
57:BZ:177:PRO:C	57:BZ:178:GLU:HG2	2.40	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:617:G:C2	1:AA:624:C:O2	2.72	0.42
1:AA:896:C:O2'	1:AA:897:C:H5'	2.18	0.42
1:AA:1004:A:N6	1:AA:1035:A:N7	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C2	1:AA:1325:C:O2	2.72	0.42
1:AA:1269:A:N1	1:AA:1312:G:N3	2.67	0.42
1:AA:1441:G:OP1	1:AA:1442:G:H5'	2.19	0.42
3:AC:7:PRO:HG3	3:AC:184:TYR:CG	2.55	0.42
3:AC:153:VAL:HG12	3:AC:154:SER:H	1.83	0.42
4:AD:79:PHE:HB2	4:AD:93:PHE:CZ	2.54	0.42
4:AD:124:GLY:O	4:AD:126:ILE:N	2.50	0.42
6:AF:60:PHE:CZ	18:AR:78:LEU:HD21	2.55	0.42
7:AG:41:ARG:O	7:AG:45:ASP:CG	2.57	0.42
7:AG:137:LYS:HA	7:AG:140:ASP:HB3	2.02	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
24:AY:20:SER:N	24:AY:126:LEU:HD13	2.34	0.42
24:AY:122:ARG:HB3	24:AY:126:LEU:HD21	2.01	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
25:B0:14:ARG:CD	35:BA:2279:G:O6	2.63	0.42
29:B4:5:ILE:N	29:B4:5:ILE:CD1	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:30:G:C2'	35:BA:31:C:O4'	2.68	0.42
35:BA:117:G:O4'	35:BA:126:A:H2	2.03	0.42
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.19	0.42
35:BA:245:G:H4'	47:BP:71:VAL:HA	2.00	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
35:BA:1042:G:C5	35:BA:1114:G:N1	2.88	0.42
35:BA:1139:G:H5''	35:BA:1139:G:H8	1.84	0.42
35:BA:1168:G:C2	35:BA:1182:A:C2	3.07	0.42
35:BA:1332:G:N2	35:BA:1610:A:N7	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2255:G:H8	35:BA:2255:G:O5'	2.02	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
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
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:96:ARG:N	41:BG:99:MET:HE2	2.34	0.42
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.66	0.42
42:BH:30:LYS:CB	42:BH:79:VAL:O	2.67	0.42
42:BH:65:HIS:C	42:BH:67:LEU:N	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
48:BQ:141:GLN:CD	57:BZ:72:ARG:HA	2.38	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
1:AA:130:A:O3'	1:AA:189(G):G:N2	2.52	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:AB:60:ASP:O	2:AB:64:ARG:HB3	2.20	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
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:HE2	9:AI:70:LYS:HB2	1.74	0.42
11:AK:58:PRO:O	11:AK:59:TYR:C	2.56	0.42
13:AM:102:ARG:NH1	13:AM:102:ARG:HG3	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:30:THR:O	24:AY:34:LEU:HG	2.19	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: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:HH11	28:B3:35:ARG:CB	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:B7:11:LYS:HE2	35:BA:686:G:C5'	2.49	0.42
32:B7:34:ARG:HD3	32:B7:34:ARG:HA	1.89	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1326:U:H3	35:BA:1648:C:HO2'	1.61	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
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:2572:A:C5	39:BE:144:ARG:NH1	2.87	0.42
35:BA:2703:C:O2	35:BA:2703:C:C2'	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
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:43:VAL:O	37:BC:43:VAL:HG12	2.18	0.42
37:BC:45:ALA:CA	37:BC:171:ILE:HG22	2.49	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: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
39:BE:101:ARG:O	39:BE:201:THR:HB	2.19	0.42
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.72	0.42
41:BG:47:LYS:HG2	41:BG:81:LYS:CG	2.46	0.42
41:BG:141:PHE:O	41:BG:143:GLU:N	2.50	0.42
47:BP:86:LYS:O	47:BP:86:LYS:HG2	2.20	0.42
48:BQ:35:VAL:HG13	48:BQ:35:VAL:O	2.20	0.42
50:BS:26:LEU:CD2	50:BS:26:LEU:O	2.67	0.42
50:BS:85:VAL:H	50:BS:106:ARG:HB2	1.83	0.42
51:BT:19:LEU:HD11	51:BT:78:LEU:O	2.19	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:129:ARG:HG3	51:BT:129:ARG:O	2.20	0.42
56:BY:14:LEU:HD23	56:BY:73:ARG:HG3	2.02	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
57:BZ:168:GLU:CA	57:BZ:168:GLU:OE1	2.66	0.42
1:AA:16:A:C2'	1:AA:17:U:C5'	2.95	0.42
1:AA:42:G:H1	1:AA:400:C:H42	1.66	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: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
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:1342:C:O3'	9:AI:125:TYR:HB2	2.20	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:92:ALA:O	3:AC:93:LYS:C	2.58	0.42
3:AC:122:GLU:O	3:AC:123:GLN:C	2.57	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
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
30:B5:19:ARG:HD3	35:BA:2047:U:OP1	2.20	0.42
32:B7:29:LYS:HB3	32:B7:29:LYS:HE3	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:40:TRP:CD2	35:BA:459:U:C5'	3.00	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
35:BA:1272:A:N7	35:BA:1618:A:H1'	2.35	0.42
35:BA:1306:C:C2	35:BA:1307:A:C8	3.07	0.42
35:BA:1307:A:H1'	35:BA:1622:G:N2	2.35	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: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
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:2345:G:N2	35:BA:2382:G:C8	2.88	0.42
35:BA:2369:A:O2'	35:BA:2370:G:H5'	2.19	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
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:18:VAL:CG2	38:BD:211:ARG:NH2	2.70	0.42
38:BD:148:GLU:H	38:BD:154:LYS:HZ2	1.67	0.42
38:BD:211:ARG:O	38:BD:212:SER:C	2.58	0.42
39:BE:117:MET:O	39:BE:121:ASN:CA	2.66	0.42
39:BE:117:MET:HG3	39:BE:122:PHE:O	2.20	0.42
39:BE:177:PRO:O	39:BE:178:GLU:O	2.38	0.42
40:BF:59:TYR:N	40:BF:59:TYR:CD1	2.88	0.42
40:BF:104:LYS:O	40:BF:108:LYS:HG3	2.19	0.42
42:BH:94:TYR:CD1	42:BH:107:VAL:C	2.90	0.42
42:BH:148:ILE:O	42:BH:151:ILE:HD13	2.20	0.42
45:BN:75:TYR:HB2	45:BN:82:LEU:CD1	2.43	0.42
45:BN:107:LEU:HD11	45:BN:117:PHE:HD1	1.85	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:C	53:BV:95:LEU:CD2	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:43:C:C2	1:AA:44:G:C8	3.08	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: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:958:A:C2	19:AS:54:GLY:O	2.67	0.42
1:AA:961:U:O2'	1:AA:962:C:P	2.77	0.42
1:AA:982:U:H5''	14:AN:6:LEU:HD11	2.00	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
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:11:LEU:HD13	4:AD:66:ARG:NE	2.34	0.42
4:AD:58:LEU:HD11	4:AD:62:GLN:HG3	2.01	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:7:ILE:O	12:AL:10:LEU:N	2.52	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
15:AO:53:HIS:HE1	15:AO:57:LEU:HD21	1.85	0.42
17:AQ:4:LYS:O	17:AQ:60:ILE:HA	2.20	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:83:ASP:CG	17:AQ:84:LEU:H	2.20	0.42
20:AT:100:ILE:N	20:AT:100:ILE:CD1	2.83	0.42
24:AY:114:ASP:OD1	24:AY:143:LYS:HD2	2.20	0.42
24:AY:135:THR:O	24:AY:136:PRO:C	2.58	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
27:B2:65:ASN:ND2	35:BA:112:U:H5'	2.35	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
33:B8:12:LYS:HB3	47:BP:68:GLN:NE2	2.35	0.42
35:BA:24:G:H2'	35:BA:25:U:C6	2.54	0.42
35:BA:108:U:H6	35:BA:108:U:O5'	2.03	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:142:A:H1'	35:BA:1408:C:H1'	2.02	0.42
35:BA:233:A:O2'	35:BA:234:C:H5'	2.20	0.42
35:BA:479:A:C4	35:BA:481:G:O4'	2.72	0.42
35:BA:481:G:C4	35:BA:507:A:C2	3.07	0.42
35:BA:612:C:O2'	35:BA:613:G:H5''	2.19	0.42
35:BA:644:A:C2	35:BA:2369:A:H1'	2.55	0.42
35:BA:920:G:O2'	35:BA:921:G:H5'	2.19	0.42
35:BA:1086:A:H5''	35:BA:1086:A:N3	2.34	0.42
35:BA:1368:G:C2	35:BA:1369:G:C5	3.07	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:H2'	35:BA:1746:G:N3	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:2044:C:C2	35:BA:2625:G:N2	2.88	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: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: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
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:39:ILE:HG21	41:BG:94:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
42:BH:38:SER:OG	42:BH:64:LEU:HD11	2.18	0.42
42:BH:150:ALA:O	42:BH:151:ILE:C	2.57	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
51:BT:5:ALA:HA	51:BT:8:LYS:HE2	2.01	0.42
51:BT:29:ARG:HA	51:BT:29:ARG:HD3	1.35	0.42
51:BT:32:TYR:CD1	51:BT:81:PRO:HB2	2.54	0.42
51:BT:62:THR:HA	51:BT:74:ARG:O	2.20	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: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
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
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:60:ALA:HB3	3:AC:63:ASN:OD1	2.19	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
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:HD22	15:AO:43:LEU:HA	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:17:ALA:HB3	24:AY:103:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:AY:28:THR:HB	58:AY:1000:GCP:H8	2.01	0.42
24:AY:72:THR:HG22	24:AY:89:THR:HA	2.00	0.42
24:AY:131:ARG:HH12	24:AY:162:LEU:CD1	2.33	0.42
24:AY:131:ARG:HH11	24:AY:131:ARG:CG	2.33	0.42
24:AY:527:ARG:HD2	24:AY:528:GLU:C	2.40	0.42
25:B0:48:GLY:HA3	25:B0:80:HIS:CA	2.48	0.42
26:B1:35:THR:OG1	35:BA:2079:U:O3'	2.33	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:9:U:O2	35:BA:10:G:C1'	2.67	0.42
35:BA:115:C:O2'	35:BA:116:C:H5'	2.20	0.42
35:BA:142:A:H1'	35:BA:1408:C:O4'	2.20	0.42
35:BA:180:G:O2'	35:BA:181:A:N7	2.53	0.42
35:BA:247:G:OP2	35:BA:249:C:C5	2.72	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:N3	35:BA:646:A:O4'	2.53	0.42
35:BA:671:C:C2	35:BA:672:C:C5	3.08	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:1306:C:N4	35:BA:1606:G:H2'	2.35	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: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
35:BA:2312:U:H5'	41:BG:73:ALA:HB2	2.01	0.42
35:BA:2375:G:N3	35:BA:2379:G:N1	2.68	0.42
35:BA:2631:G:N2	39:BE:61:ARG:NH2	2.67	0.42
35:BA:2637:U:O2'	35:BA:2638:G:H5'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2820:A:C8	39:BE:109:LYS:HE2	2.55	0.42
36:BB:7:G:H3'	36:BB:8:U:C5'	2.46	0.42
36:BB:77:U:O2	36:BB:77:U:H2'	2.20	0.42
38:BD:53:PHE:HB3	38:BD:218:ARG:HB2	2.02	0.42
39:BE:11:MET:HB3	39:BE:24:THR:HA	2.02	0.42
39:BE:26:ILE:O	39:BE:182:LEU:N	2.51	0.42
39:BE:134:ILE:O	39:BE:134:ILE:HG13	2.19	0.42
40:BF:34:TRP:CG	47:BP:11:GLY:O	2.73	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
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:235:C:C5'	17:AQ:70:ARG:HG2	2.49	0.42
1:AA:277:C:P	17:AQ:68:ARG:HH12	2.42	0.42
1:AA:335:C:HO2'	1:AA:1433:A:HO2'	1.66	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:H6	1:AA:826:C:O5'	2.02	0.42
1:AA:939:G:C2	1:AA:940:C:C2	3.07	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
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	2.01	0.42
2:AB:137:ARG:O	2:AB:140:HIS:CB	2.68	0.42
2:AB:185:ILE:HD12	2:AB:185:ILE:H	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:188:LEU:HD23	4:AD:189:PRO:O	2.19	0.42
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
6:AF:97:PHE:O	18:AR:30:ASP:OD1	2.37	0.42
6:AF:98:LEU:HA	18:AR:29:PHE:O	2.20	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:HD23	15:AO:67:LEU:HA	1.67	0.42
16:AP:20:VAL:CG2	16:AP:21:VAL:N	2.83	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:89:THR:CB	24:AY:90:PRO:CD	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
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:16:G:H2'	35:BA:17:G:C8	2.55	0.42
35:BA:57:C:HO2'	35:BA:58:G:H5'	1.82	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:571:A:C2'	53:BV:78:LYS:HZ3	2.32	0.42
35:BA:586:A:C2	35:BA:1254:A:C2	3.07	0.42
35:BA:673:C:P	40:BF:54:ARG:HH11	2.42	0.42
35:BA:752:A:N7	35:BA:1781:C:C2	2.88	0.42
35:BA:952:G:O2'	35:BA:2267:A:H1'	2.19	0.42
35:BA:1105:U:O5'	35:BA:1105:U:C6	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1661:G:C4	35:BA:1662:C:C5	3.08	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
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:2654:A:N1	35:BA:2665:A:H5''	2.35	0.42
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.54	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
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.34	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
36:BB:107:G:C6	36:BB:108:U:C5	3.07	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:NH1	38:BD:242:ARG:CG	2.79	0.42
38:BD:263:ARG:NH1	38:BD:263:ARG:CB	2.83	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
39:BE:102:VAL:HG23	39:BE:104:VAL:CG2	2.49	0.42
41:BG:80:PHE:CD1	41:BG:81:LYS:HG2	2.54	0.42
41:BG:129:GLY:C	41:BG:130:ASN:CG	2.76	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
45:BN:99:LEU:O	45:BN:100:GLU:C	2.57	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:CD1	53:BV:75:PHE:C	2.93	0.42
57:BZ:5:LEU:HB3	57:BZ:59:LEU:CD2	2.49	0.42
1:AA:46:G:N1	1:AA:366:C:O2	2.53	0.42
1:AA:60:A:H2	1:AA:107:G:N3	2.18	0.42
1:AA:142:G:H1	1:AA:221:C:H42	1.67	0.42
1:AA:173:U:H4'	1:AA:174:C:OP2	2.20	0.42
1:AA:260:G:H8	1:AA:260:G:O5'	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:620:C:C2	4:AD:135:LEU:HG	2.54	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
1:AA:944:G:N1	1:AA:1340:A:N6	2.68	0.42
1:AA:1050:G:C2	1:AA:1209:C:C2	3.08	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:1219:U:H6	1:AA:1219:U:O5'	2.03	0.42
1:AA:1413:A:C2	1:AA:1414:U:C6	3.08	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
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:68:ILE:HB	24:AY:92:HIS:HE1	1.85	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
26:B1:50:ARG:HG3	35:BA:2200:C:OP1	2.20	0.42
26:B1:65:SER:O	35:BA:372:G:C8	2.73	0.42
31:B6:5:VAL:HG11	35:BA:2283:C:H5'	2.01	0.42
34:B9:19:ARG:HB2	35:BA:2756:U:H3'	2.00	0.42
35:BA:44:G:N2	35:BA:435:C:H41	2.18	0.42
35:BA:130:C:H4'	35:BA:1349:A:C1'	2.50	0.42
35:BA:143:G:H5''	35:BA:1598:C:H1'	2.02	0.42
35:BA:150:C:H2'	35:BA:151:C:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:231:C:O2'	35:BA:232:G:H5'	2.18	0.42
35:BA:240:G:C6	35:BA:241:A:C6	3.07	0.42
35:BA:245:G:O2'	47:BP:71:VAL:HG23	2.20	0.42
35:BA:342:G:H2'	35:BA:343:C:C6	2.55	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
35:BA:958:U:OP1	48:BQ:41:TRP:HZ3	2.02	0.42
35:BA:1044:G:N2	35:BA:1111:A:C2	2.88	0.42
35:BA:1141:U:H6	45:BN:63:THR:HG22	1.83	0.42
35:BA:1266:G:H22	35:BA:2012:G:H2'	1.83	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:1557:C:C5	35:BA:1558:A:C5	3.08	0.42
35:BA:1667:G:C5'	46:BO:5:GLN:O	2.66	0.42
35:BA:1888:G:H5'	35:BA:1888:G:N3	2.35	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:C3'	35:BA:2189:U:C6	3.03	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: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
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:48:GLN:HG3	39:BE:78:LEU:HD13	2.02	0.42
39:BE:60:ASN:OD1	39:BE:61:ARG:HB3	2.20	0.42
41:BG:178:PHE:CB	41:BG:180:PHE:HE1	2.33	0.42
45:BN:55:VAL:HA	45:BN:123:TYR:O	2.19	0.42
45:BN:100:GLU:O	45:BN:117:PHE:CE1	2.73	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
48:BQ:141:GLN:O	57:BZ:71:VAL:O	2.36	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: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
57:BZ:151:HIS:CA	57:BZ:171:ILE:HG12	2.45	0.42
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
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:1484:C:C1'	35:BA:1960:A:O2'	2.68	0.41
2:AB:8:LYS:NZ	2:AB:217:ARG:NH2	2.68	0.41
3:AC:95:THR:HG22	3:AC:97:LYS:HG3	2.02	0.41
3:AC:132:ARG:HH22	4:AD:47:ARG:NH2	2.17	0.41
4:AD:118:ARG:NH1	4:AD:118:ARG:HG3	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:45:PRO:HB2	12:AL:49:ASN:O	2.20	0.41
12:AL:125:PRO:O	12:AL:126:LYS:C	2.58	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:HD2	19:AS:18:LYS:HA	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B7:11:LYS:HE3	35:BA:686:G:C2	2.54	0.41
34:B9:10:ILE:HD12	34:B9:10:ILE:N	2.26	0.41
34:B9:10:ILE:HG21	35:BA:2477:C:C5	2.54	0.41
35:BA:139:G:H1'	55:BX:41:ASN:OD1	2.20	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:664:C:OP1	47:BP:21:ARG:NH2	2.52	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:727:A:C5	35:BA:728:G:C6	3.08	0.41
35:BA:748:G:C5'	35:BA:2612:C:N4	2.82	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
35:BA:1053:C:N4	35:BA:1108:U:H3	2.18	0.41
35:BA:1265:A:OP2	35:BA:2615:U:OP1	2.38	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
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
36:BB:9:G:C6	36:BB:10:C:C4	3.08	0.41
36:BB:58:A:H2'	36:BB:59:A:C8	2.54	0.41
37:BC:59:ARG:HD2	37:BC:164:ARG:HE	1.83	0.41
37:BC:214:VAL:HG23	37:BC:224:ILE:HG21	2.01	0.41
38:BD:14:ARG:CG	38:BD:14:ARG:NH1	2.80	0.41
38:BD:21:PHE:HE1	38:BD:91:ARG:HH22	1.68	0.41
38:BD:79:VAL:HG21	38:BD:112:GLN:O	2.18	0.41
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.81	0.41
38:BD:273:ARG:NH1	38:BD:273:ARG:CG	2.79	0.41
39:BE:4:ILE:HG23	39:BE:4:ILE:O	2.19	0.41
39:BE:173:VAL:HB	39:BE:183:LEU:HB3	2.02	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
40:BF:115:ALA:O	40:BF:118:ALA:HB3	2.20	0.41
41:BG:39:ILE:CG1	41:BG:156:ASP:O	2.67	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
45:BN:128:HIS:HA	45:BN:129:PRO:HD2	1.85	0.41
46:BO:21:CYS:SG	46:BO:23:ARG:O	2.78	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: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:520:A:OP1	12:AL:52:LEU:HB2	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
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:O2	1:AA:1158:C:C2'	2.68	0.41
1:AA:1266:G:H21	1:AA:1268:A:C5'	2.31	0.41
2:AB:42:ILE:CD1	2:AB:202:PRO:C	2.88	0.41
2:AB:179:LYS:CA	8:AH:72:PRO:HG3	2.50	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

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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:N3	22:AV:53:G:H2'	2.35	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
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:O	24:AY:456:GLU:HG3	2.19	0.41
26:B1:40:ARG:NH2	35:BA:2232:U:OP2	2.38	0.41
29:B4:6:HIS:HA	41:BG:67:LYS:CD	2.50	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:479:A:O2'	35:BA:481:G:C5'	2.60	0.41
35:BA:691:C:O2'	38:BD:43:ARG:HG2	2.21	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
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
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:2627:G:N3	35:BA:2781:A:H2	2.17	0.41
35:BA:2681:C:N3	35:BA:2724:C:C5	2.89	0.41
35:BA:2847:U:C5	35:BA:2848:G:C6	3.08	0.41
37:BC:90:GLY:O	37:BC:153:ILE:CG2	2.68	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:7:TYR:OH	40:BF:10:PRO:CB	2.64	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:110:LEU:CD2	40:BF:183:VAL:CG1	2.88	0.41
40:BF:161:GLU:H	40:BF:161:GLU:HG3	1.67	0.41
40:BF:163:VAL:C	40:BF:166:ALA:HB3	2.41	0.41
41:BG:66:GLN:HB3	41:BG:92:VAL:CG2	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:CD1	46:BO:32:TYR:N	2.88	0.41
47:BP:105:LEU:HD12	47:BP:105:LEU:H	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:24:GLY:N	55:BX:82:GLN:HE22	2.16	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
57:BZ:10:ARG:CB	57:BZ:36:LYS:HG3	2.39	0.41
1:AA:15:G:O6	1:AA:16:A:N6	2.53	0.41
1:AA:62:U:OP1	1:AA:386:C:H5'	2.20	0.41
1:AA:260:G:H2'	1:AA:261:U:C6	2.55	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:939:G:C5'	7:AG:102:ARG:HH22	2.31	0.41
1:AA:958:A:N6	19:AS:77:THR:O	2.53	0.41
1:AA:959:A:H5'	1:AA:985:C:H4'	2.01	0.41
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.85	0.41
1:AA:1048:G:C5'	14:AN:2:ALA:HB1	2.49	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
6:AF:46:ARG:NH2	18:AR:37:VAL:CG2	2.83	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
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
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:HB3	24:AY:504:ILE:HG12	2.02	0.41
24:AY:492:GLN:C	24:AY:504:ILE:HG12	2.40	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:9:U:O2	35:BA:10:G:N9	2.54	0.41
35:BA:28:A:H2'	35:BA:29:U:O4'	2.20	0.41
35:BA:89:G:H3'	35:BA:90:U:C5'	2.50	0.41
35:BA:116:C:H4'	35:BA:127:A:O4'	2.20	0.41
35:BA:214:G:N2	35:BA:215:G:N2	2.68	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:863:A:OP2	48:BQ:22:LYS:HB2	2.20	0.41
35:BA:953:A:C2	35:BA:965:C:C2	3.08	0.41
35:BA:1130:U:C2	35:BA:2025:C:H5''	2.55	0.41
35:BA:1524:G:C6	35:BA:1525:G:C5	3.09	0.41
35:BA:1792:G:P	38:BD:206:LEU:HD11	2.59	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:2100:G:N1	35:BA:2101:G:C2	2.88	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2822:G:C2'	35:BA:2823:A:O5'	2.68	0.41
37:BC:53:ARG:NH1	37:BC:53:ARG:HB3	2.35	0.41
37:BC:77:ILE:C	37:BC:78:ALA:O	2.58	0.41
37:BC:161:ILE:HG21	37:BC:174:PRO:HG3	2.02	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
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:O	47:BP:138:LEU:HG	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
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:284:G:H2'	1:AA:285:G:C8	2.55	0.41
1:AA:718:G:O6	18:AR:81:PHE:HD2	2.03	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
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
2:AB:204:ASN:HD21	2:AB:206:ASP:N	2.04	0.41
3:AC:35:GLU:OE2	3:AC:95:THR:HG23	2.19	0.41
3:AC:64:VAL:CG1	3:AC:65:ALA:N	2.77	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
7:AG:150:ALA:HA	11:AK:59:TYR:HB3	2.01	0.41
10:AJ:27:ALA:C	10:AJ:30:SER:HB3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:56:HIS:C	10:AJ:58:ASP:N	2.73	0.41
11:AK:19:ALA:O	11:AK:82:VAL:HA	2.21	0.41
11:AK:62:GLN:O	11:AK:63:LEU:C	2.59	0.41
11:AK:82:VAL:HG12	11:AK:108:ILE:HA	2.02	0.41
17:AQ:18:THR:HG21	17:AQ:69:LYS:HD2	2.02	0.41
17:AQ:52:LYS:HE3	17:AQ:52:LYS:HB3	1.69	0.41
17:AQ:63:ARG:HA	17:AQ:64:PRO:HD3	1.84	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:417:VAL:HG13	24:AY:497:GLY:O	2.21	0.41
24:AY:431:ILE:H	24:AY:431:ILE:CD1	2.17	0.41
25:B0:16:SER:OG	35:BA:2261:C:H3'	2.20	0.41
33:B8:13:ARG:O	33:B8:24:ALA:HB1	2.20	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:743:G:OP1	39:BE:130:GLY:O	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
35:BA:1032:A:H61	35:BA:1123:C:H42	1.68	0.41
35:BA:1058:G:C6	35:BA:1059:G:N7	2.88	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:O2	35:BA:1313:U:C3'	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:H8	35:BA:1747:G:O5'	2.03	0.41
35:BA:2019:A:C5	35:BA:2020:A:N7	2.89	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
38:BD:44:ASN:CB	38:BD:48:ARG:O	2.62	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:54:ARG:HH11	42:BH:54:ARG:CG	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:104:GLU:O	42:BH:104:GLU:CG	2.68	0.41
42:BH:105:LEU:C	42:BH:106:THR:CG2	2.88	0.41
47:BP:62:LEU:N	47:BP:62:LEU:HD23	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:2:ARG:HD3	56:BY:3:VAL:HG23	2.02	0.41
56:BY:24:VAL:HG12	56:BY:25:GLY:N	2.36	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:15:G:C4	1:AA:16:A:C8	3.08	0.41
1:AA:66:G:N2	1:AA:172:A:C2	2.84	0.41
1:AA:79:G:N2	1:AA:91:C:N4	2.68	0.41
1:AA:108:G:N3	1:AA:108:G:O4'	2.53	0.41
1:AA:407:G:H1	1:AA:435:C:N4	2.19	0.41
1:AA:529:G:O6	12:AL:49:ASN:ND2	2.53	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: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:728:A:H62	15:AO:51:HIS:CD2	2.38	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:H6	1:AA:899:C:OP1	2.04	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:1080:A:C5'	5:AE:16:THR:HG21	2.44	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:53:PRO:CA	14:AN:42:ILE:HD11	2.50	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
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:HB2	29:B4:8:LYS:HE3	1.88	0.41
35:BA:48:G:O2'	35:BA:118:A:N1	2.50	0.41
35:BA:220:G:H22	35:BA:427:U:H2'	1.85	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
35:BA:1163:G:H2'	35:BA:1164:G:H8	1.86	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:H6	35:BA:1383:C:H3'	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:1667:G:OP1	46:BO:7:TYR:N	2.54	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: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:2784:C:C4'	39:BE:42:ASP:OD1	2.64	0.41
35:BA:2820:A:O2'	39:BE:191:PRO:CG	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:112:U:H2'	36:BB:113:G:C8	2.56	0.41
37:BC:22:ILE:O	37:BC:22:ILE:CG2	2.68	0.41
37:BC:28:LEU:HD21	37:BC:32:LEU:HD11	2.03	0.41
37:BC:59:ARG:CB	37:BC:164:ARG:HG3	2.50	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
40:BF:18:ARG:NH1	40:BF:199:TRP:CZ3	2.88	0.41
40:BF:33:LEU:CD2	40:BF:112:MET:SD	3.08	0.41
41:BG:46:ALA:N	41:BG:47:LYS:HD2	2.35	0.41
41:BG:116:ASP:HB3	41:BG:117:PHE:H	1.66	0.41
42:BH:148:ILE:HA	42:BH:151:ILE:HD11	2.03	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:27:G:C6	1:AA:557:G:N1	2.88	0.41
1:AA:55:A:N3	24:AY:311:HIS:CD2	2.88	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:716:A:H1'	11:AK:117:ASN:O	2.20	0.41
1:AA:770:C:C4'	1:AA:900:A:H2	2.33	0.41
1:AA:834:C:N3	1:AA:853:G:C2	2.88	0.41
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.21	0.41
1:AA:960:U:C6	1:AA:1225:A:C8	3.08	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
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:OP1	1:AA:1168:A:C8	2.68	0.41
1:AA:1197:G:C2	1:AA:1198:G:C8	3.08	0.41
1:AA:1377:A:OP2	7:AG:94:ARG:NH1	2.53	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
3:AC:94:LEU:C	3:AC:94:LEU:HD12	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
8:AH:5:PRO:O	8:AH:8:ASP:CA	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:33:PHE:O	9:AI:34:ASN:C	2.59	0.41
9:AI:114:TYR:OH	10:AJ:59:SER:HA	2.21	0.41
10:AJ:56:HIS:C	10:AJ:58:ASP:H	2.24	0.41
12:AL:77:LEU:HD22	12:AL:81:SER:HB3	2.03	0.41
12:AL:83:VAL:HG12	12:AL:107:ALA:HB2	1.97	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:8:ARG:HG2	16:AP:9:PHE:N	2.36	0.41
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.35	0.41
18:AR:74:ARG:HG2	18:AR:79:LEU:O	2.20	0.41
19:AS:6:LYS:C	19:AS:7:LYS:HE3	2.40	0.41
19:AS:20:LEU:HD23	19:AS:23:ASN:CB	2.51	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
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:133:C:O5'	35:BA:133:C:H6	2.03	0.41
35:BA:142:A:N6	35:BA:1596:A:H5'	2.36	0.41
35:BA:210:C:O5'	35:BA:210:C:H6	2.03	0.41
35:BA:263:C:H2'	35:BA:264:C:C6	2.55	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
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
35:BA:1151:G:C2	35:BA:1152:C:C2	3.08	0.41
35:BA:1248:G:OP1	40:BF:92:PRO:CG	2.68	0.41
35:BA:1392:A:H8	35:BA:1392:A:O5'	2.04	0.41
35:BA:1422:G:C5	35:BA:1423:G:N7	2.89	0.41
35:BA:1613:G:N3	35:BA:1613:G:H2'	2.36	0.41
35:BA:1659:U:OP2	39:BE:132:HIS:CE1	2.74	0.41
35:BA:2073:C:O2'	35:BA:2598:A:O2'	2.37	0.41
35:BA:2248:C:H3'	35:BA:2249:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2532:G:N2	35:BA:2662:A:N1	2.69	0.41
35:BA:2564:A:C6	35:BA:2565:A:C6	3.09	0.41
35:BA:2634:G:H2'	35:BA:2635:C:H6	1.84	0.41
35:BA:2776:A:H4'	35:BA:2778:A:H5''	2.03	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:36:VAL:HG12	40:BF:36:VAL:O	2.19	0.41
40:BF:185:ASP:OD1	40:BF:188:ARG:HD3	2.20	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:HG2	50:BS:20:ARG:NH1	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:N	56:BY:20:TYR:CD1	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:339:C:P	46:BO:96:THR:OG1	2.79	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:760:G:H21	17:AQ:94:ASN:HB3	1.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1488:G:C4	1:AA:1489:G:N7	2.89	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
2:AB:158:LEU:HD22	2:AB:182:ILE:HD11	2.03	0.41
2:AB:212:GLN:C	2:AB:212:GLN:CD	2.79	0.41
2:AB:222:ILE:O	2:AB:226:ARG:N	2.47	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:3:ARG:HE	4:AD:5:ILE:HG13	1.86	0.41
4:AD:94:LEU:HD23	4:AD:94:LEU:HA	1.93	0.41
4:AD:108:LEU:HD23	4:AD:110:PHE:CD2	2.50	0.41
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.88	0.41
5:AE:63:ARG:HA	5:AE:66:MET:CE	2.51	0.41
9:AI:25:LYS:HB2	9:AI:25:LYS:HE3	1.81	0.41
10:AJ:98:ILE:O	10:AJ:98:ILE:HG22	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
18:AR:53:ARG:NH1	18:AR:60:ALA:CA	2.79	0.41
19:AS:20:LEU:HA	19:AS:20:LEU:HD23	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: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
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
26:B1:24:ALA:O	26:B1:25:LYS:C	2.59	0.41
26:B1:40:ARG:HH12	35:BA:2232:U:P	2.43	0.41
31:B6:6:ARG:HB2	31:B6:7:ILE:H	1.52	0.41
32:B7:7:PRO:CA	35:BA:686:G:H8	2.26	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:201:C:H4'	35:BA:386:G:C2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:268:C:H42	35:BA:424:G:H1	1.68	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
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
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
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:1669:A:H4'	35:BA:2549:G:H4'	2.02	0.41
35:BA:1774:C:O2	35:BA:1774:C:H2'	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: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: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: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
36:BB:7:G:C2'	36:BB:8:U:H5''	2.50	0.41
36:BB:42:C:H42	41:BG:91:ARG:HD3	1.85	0.41
36:BB:52:A:O2'	36:BB:53:A:C8	2.66	0.41
36:BB:116:G:N2	36:BB:117:G:C5	2.89	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:43:ARG:H	38:BD:43:ARG:HG3	1.58	0.41
38:BD:45:ASN:HD22	38:BD:45:ASN:H	1.69	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
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:65:TRP:HB2	40:BF:66:PRO:CD	2.51	0.41
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BN:39:ARG:O	45:BN:42:TRP:CB	2.68	0.41
46:BO:25:LEU:HD11	46:BO:59:LYS:HE2	2.03	0.41
48:BQ:59:ARG:O	48:BQ:60:ARG:C	2.59	0.41
53:BV:91:TYR:HD1	53:BV:91:TYR:C	2.21	0.41
54:BW:107:LEU:HD12	54:BW:107:LEU:N	2.35	0.41
57:BZ:133:ILE:C	57:BZ:134:PRO:O	2.59	0.41
1:AA:697:U:C4'	1:AA:786:G:H4'	2.51	0.41
1:AA:741:G:O2'	1:AA:742:G:C5'	2.69	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
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
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: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
8:AH:124:ALA:HB1	8:AH:129:VAL:O	2.20	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:HG3	25:B0:14:ARG:HH11	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:CD2	31:B6:36:LEU:C	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:27:G:HO2'	35:BA:28:A:P	2.44	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:911:A:O4'	35:BA:2264:C:H4'	2.20	0.41
35:BA:966:G:C1'	35:BA:2267:A:N6	2.83	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:H8	35:BA:1214:A:O5'	2.04	0.41
35:BA:1224:C:C4	35:BA:1225:G:C6	3.09	0.41
35:BA:1438:U:C4	35:BA:1552:G:N2	2.88	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: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: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:C6	35:BA:2504:U:H3'	2.56	0.41
35:BA:2830:G:O2'	35:BA:2831:G:H5'	2.20	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:97:ARG:C	45:BN:99:LEU:N	2.74	0.41
45:BN:116:LEU:O	45:BN:119:ARG:HB2	2.20	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
47:BP:96:THR:HG22	47:BP:126:VAL:CG2	2.50	0.41
48:BQ:8:LYS:O	48:BQ:9:TYR:CG	2.74	0.41
48:BQ:45:GLN:H	48:BQ:45:GLN:NE2	2.17	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: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
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
1:AA:142:G:N3	1:AA:196:A:H2	2.18	0.41
1:AA:151:A:O2'	1:AA:152:A:H5'	2.20	0.41
1:AA:195:A:P	20:AT:68:LYS:NZ	2.94	0.41
1:AA:195:A:P	20:AT:68:LYS:HZ3	2.43	0.41
1:AA:355:C:H2'	1:AA:356:A:C8	2.55	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:543:C:H5'	4:AD:14:ARG:CZ	2.51	0.41
1:AA:571:U:H5''	1:AA:819:A:C5	2.55	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:671:G:N1	1:AA:672:U:C2	2.89	0.41
1:AA:689:C:H4'	1:AA:705:U:H1'	2.03	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:835:U:C5'	18:AR:64:ARG:HH22	2.34	0.41
1:AA:899:C:OP1	1:AA:899:C:C6	2.74	0.41
1:AA:939:G:OP1	7:AG:102:ARG:NH1	2.50	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
1:AA:979:C:C3'	1:AA:980:C:C5'	2.74	0.41
1:AA:1014:A:C2	19:AS:34:TRP:CZ2	3.09	0.41
1:AA:1054:C:OP1	1:AA:1198:G:OP2	2.39	0.41
1:AA:1114:C:H2'	1:AA:1115:C:H6	1.86	0.41
1:AA:1134:G:C5	1:AA:1135:U:O2	2.74	0.41
1:AA:1179:A:N6	1:AA:1180:A:C2	2.88	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: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:1406:U:C5	1:AA:1407:C:C6	3.09	0.41
1:AA:1414:U:HO2'	1:AA:1415:G:H8	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1446:U:O2'	1:AA:1447:A:H3'	2.21	0.41
1:AA:1456:G:H3'	1:AA:1456:G:N3	2.36	0.41
1:AA:1485:U:O5'	1:AA:1485:U:H6	2.03	0.41
2:AB:8:LYS:C	2:AB:10:LEU:N	2.67	0.41
2:AB:9:GLU:HA	2:AB:12:GLU:HG3	2.02	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:HA	2.03	0.41
2:AB:69:LEU:HD22	2:AB:69:LEU:HA	1.84	0.41
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	2.03	0.41
2:AB:104:ASN:O	2:AB:108:ILE:HG12	2.21	0.41
2:AB:178:ARG:C	2:AB:180:LEU:N	2.74	0.41
2:AB:212:GLN:C	2:AB:212:GLN:OE1	2.59	0.41
3:AC:28:GLN:HA	3:AC:28:GLN:NE2	2.35	0.41
4:AD:61:LYS:HE2	4:AD:61:LYS:HB3	1.82	0.41
4:AD:91:SER:O	4:AD:94:LEU:N	2.52	0.41
4:AD:173:TRP:CD1	4:AD:189:PRO:HD3	2.56	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:29:LYS:NZ	7:AG:102:ARG:HG3	2.36	0.41
7:AG:99:LEU:O	7:AG:102:ARG:HB3	2.21	0.41
7:AG:106:GLN:O	7:AG:107:ALA:C	2.59	0.41
7:AG:108:ALA:H	7:AG:123:GLU:HG2	1.86	0.41
7:AG:126:ASP:HB3	7:AG:131:LYS:HG3	2.01	0.41
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.05	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: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
9:AI:98:PRO:HB2	9:AI:99:LEU:CD2	2.47	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
12:AL:124:LYS:O	12:AL:124:LYS:HG3	2.20	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
17:AQ:58:GLU:O	17:AQ:59:ILE:CG1	2.68	0.41
19:AS:45:VAL:O	19:AS:45:VAL:CG2	2.69	0.41
19:AS:62:ILE:HD12	19:AS:66:MET:HE2	2.02	0.41
20:AT:36:LEU:HA	20:AT:39:LYS:HB2	2.03	0.41
22:AV:49:G:N2	22:AV:50:U:N1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:71:C:H2'	22:AV:72:A:C8	2.56	0.41
24:AY:10:VAL:C	24:AY:279:PRO:HG3	2.41	0.41
24:AY:21:HIS:HD2	24:AY:122:ARG:CA	2.34	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
24:AY:106:VAL:HG22	24:AY:108:CYS:N	2.30	0.41
24:AY:138:LEU:HD11	24:AY:272:LEU:CB	2.38	0.41
24:AY:416:LEU:HA	24:AY:416:LEU:HD23	1.78	0.41
24:AY:480:LYS:HE2	24:AY:480:LYS:CA	2.51	0.41
25:B0:42:GLY:O	25:B0:57:PHE:CG	2.74	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
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
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
30:B5:51:TYR:CD2	30:B5:52:TYR:CE1	3.08	0.41
32:B7:16:HIS:O	32:B7:43:THR:HG23	2.20	0.41
32:B7:31:LEU:HD22	32:B7:42:LEU:HB3	2.03	0.41
33:B8:44:LYS:HD2	33:B8:44:LYS:N	2.36	0.41
34:B9:1:MET:HG2	34:B9:31:LYS:O	2.21	0.41
35:BA:18:C:O2'	52:BU:23:GLY:HA2	2.21	0.41
35:BA:28:A:H62	35:BA:512:G:H1'	1.85	0.41
35:BA:37:C:H2'	35:BA:38:A:C8	2.55	0.41
35:BA:95:G:C2'	35:BA:96:G:O5'	2.69	0.41
35:BA:109:G:H5'	35:BA:348:G:H4'	2.02	0.41
35:BA:309:G:N7	35:BA:330:A:N6	2.69	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:779:U:OP1	38:BD:49:ILE:HG13	2.20	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
35:BA:996:A:C4'	52:BU:92:ARG:HH21	2.34	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:1477:A:N6	35:BA:1478:G:C6	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H5'	35:BA:1893:C:H6	1.86	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:2157:G:O2'	35:BA:2158:A:C5'	2.66	0.41
35:BA:2193:G:H2'	35:BA:2194:G:O4'	2.21	0.41
35:BA:2234:G:C6	35:BA:2235:G:N7	2.89	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:2598:A:N7	35:BA:2599:G:C1'	2.81	0.41
35:BA:2641:G:H5'	35:BA:2641:G:C8	2.45	0.41
35:BA:2699:C:H2'	35:BA:2700:C:O4'	2.21	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
38:BD:18:VAL:O	38:BD:19:ALA:O	2.39	0.41
38:BD:21:PHE:HD1	38:BD:91:ARG:NH2	2.16	0.41
38:BD:60:ARG:HH21	38:BD:87:ASN:HA	1.76	0.41
38:BD:121:PRO:O	38:BD:123:ALA:N	2.45	0.41
38:BD:169:GLU:OE1	38:BD:184:LYS:CE	2.69	0.41
38:BD:173:VAL:O	38:BD:173:VAL:HG22	2.20	0.41
38:BD:181:GLU:CG	38:BD:272:ALA:CB	2.90	0.41
38:BD:208:LYS:HE3	38:BD:210:GLY:HA3	2.02	0.41
38:BD:218:ARG:HG3	38:BD:218:ARG:NH1	2.36	0.41
39:BE:38:THR:CG2	39:BE:39:PRO:HD2	2.51	0.41
39:BE:57:LYS:HE3	39:BE:57:LYS:HA	2.02	0.41
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.50	0.41
40:BF:169:ASN:HD22	40:BF:169:ASN:HA	1.65	0.41
41:BG:10:LYS:HE2	41:BG:14:GLU:OE2	2.21	0.41
41:BG:16:ARG:HA	41:BG:16:ARG:HD3	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
42:BH:18:GLU:HB3	42:BH:25:LYS:HG3	2.01	0.41
42:BH:154:PRO:HG3	42:BH:163:TYR:HD1	1.86	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:59:LEU:HA	47:BP:61:ARG:HE	1.74	0.41
47:BP:96:THR:O	47:BP:100:LEU:HD23	2.20	0.41
47:BP:146:VAL:CG1	47:BP:147:LEU:H	2.33	0.41
49:BR:48:VAL:CB	49:BR:51:LEU:HD22	2.50	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: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:60:LEU:HD23	52:BU:60:LEU:HA	1.73	0.41
52:BU:92:ARG:CB	53:BV:11:GLN:CD	2.82	0.41
52:BU:97:ASP:O	52:BU:100:VAL:HG23	2.21	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:7:VAL:HG12	56:BY:83:THR:HG21	2.03	0.41
56:BY:13:VAL:HG22	56:BY:14:LEU:H	1.86	0.41
57:BZ:8:TYR:N	57:BZ:8:TYR:CD1	2.89	0.41
57:BZ:53:ILE:HG22	57:BZ:71:VAL:HG23	2.03	0.41
57:BZ:69:THR:C	57:BZ:70:LEU:CD2	2.89	0.41
57:BZ:70:LEU:N	57:BZ:70:LEU:HD23	2.36	0.41
57:BZ:98:MET:HG3	57:BZ:99:TYR:N	2.33	0.41
57:BZ:100:VAL:HA	57:BZ:101:PRO:HD2	1.72	0.41
57:BZ:144:LEU:HA	57:BZ:144:LEU:HD13	1.76	0.41
57:BZ:150:LEU:O	57:BZ:171:ILE:CG1	2.65	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
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
1:AA:979:C:OP1	1:AA:1222:G:O6	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:AB:7:VAL:O	2:AB:7:VAL:HG12	2.21	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:236:TYR:HB3	2:AB:239:VAL:HG23	2.02	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
3:AC:137:ALA:O	3:AC:139:GLN:N	2.54	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:O	13:AM:98:VAL:HG12	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:421:GLU:CA	24:AY:529:HIS:HE1	2.31	0.41
24:AY:486:LYS:HA	24:AY:493:LEU:HD12	2.01	0.41
30:B5:6:VAL:CG2	35:BA:2015:A:C2	3.00	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:60:G:C8	35:BA:63:U:C5	3.10	0.41
35:BA:245:G:C2'	35:BA:246:C:H5'	2.51	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:H8	35:BA:572:A:O5'	2.04	0.41
35:BA:840:C:H2'	35:BA:841:A:H8	1.85	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
35:BA:1827:C:O5'	38:BD:222:ARG:NH1	2.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2413:G:N2	47:BP:70:GLN:HE22	2.06	0.41
35:BA:2422:A:C6	35:BA:2424:C:C4	3.09	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
35:BA:2845:G:N1	35:BA:2846:G:C6	2.89	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:62:TYR:CE1	38:BD:64:ILE:CA	3.00	0.41
38:BD:149:PRO:O	38:BD:151:LYS:HD2	2.21	0.41
38:BD:224:ALA:CA	38:BD:233:HIS:HB2	2.48	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
47:BP:96:THR:O	47:BP:99:LEU:CB	2.69	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
48:BQ:125:LEU:HA	48:BQ:126:PRO:HD3	1.95	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:CD1	53:BV:12:TYR:N	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:3:VAL:O	56:BY:3:VAL:CG1	2.69	0.41
56:BY:25:GLY:HA3	56:BY:39:VAL:HG13	2.02	0.41
57:BZ:5:LEU:HD23	57:BZ:5:LEU:HA	1.80	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
1:AA:286:G:C6	1:AA:287:U:C4	3.09	0.40
1:AA:367:U:C2	1:AA:394:G:C2	3.09	0.40
1:AA:371:G:H2'	1:AA:372:C:O4'	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:741:G:H5'	15:AO:39:LEU:HD21	2.01	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
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
2:AB:23:ARG:HD2	2:AB:23:ARG:HA	1.93	0.40
2:AB:25:ASN:ND2	2:AB:193:ASP:HB2	2.37	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
3:AC:73:PRO:O	3:AC:77:ILE:HG13	2.21	0.40
4:AD:15:GLU:OE1	4:AD:15:GLU:HA	2.21	0.40
4:AD:64:LEU:HD13	4:AD:198:VAL:HG11	2.03	0.40
4:AD:184:LYS:O	4:AD:186:LEU:HG	2.22	0.40
5:AE:6:PHE:HB2	5:AE:34:VAL:HG22	2.03	0.40
5:AE:11:ILE:H	5:AE:11:ILE:HG13	1.27	0.40
8:AH:38:ILE:O	8:AH:42:GLU:N	2.46	0.40
9:AI:16:ARG:HG3	9:AI:16:ARG:NH1	2.34	0.40
10:AJ:81:THR:O	10:AJ:83:GLU:N	2.54	0.40
12:AL:36:VAL:CG1	24:AY:406:PRO:CB	2.85	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
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:50:U:H5''	35:BA:51:G:C8	2.56	0.40
35:BA:221:A:N7	35:BA:266:G:O6	2.55	0.40
35:BA:555:U:O2	35:BA:556:G:N7	2.53	0.40
35:BA:693:C:O2	35:BA:693:C:H2'	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
35:BA:1166:C:O5'	35:BA:1166:C:H6	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H6	35:BA:1518:U:O5'	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
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:1803:A:N6	35:BA:1814:G:O2'	2.54	0.40
35:BA:1805:U:O2	38:BD:50:THR:CB	2.64	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:2320:A:N1	35:BA:2333:A:C4	2.89	0.40
35:BA:2524:G:H5'	35:BA:2524:G:C8	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:O5'	35:BA:2587:A:H8	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
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:4:ILE:HD12	39:BE:92:THR: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
40:BF:64:ILE:CG2	40:BF:65:TRP:H	2.34	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
41:BG:44:GLY:O	41:BG:47:LYS:CE	2.65	0.40
41:BG:111:LEU:O	41:BG:114:ILE:HG22	2.20	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:19:LEU:HD22	51:BT:85:LYS:HG3	2.01	0.40
51:BT:22:PHE:CE2	51:BT:85:LYS:CE	3.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BT:118:ARG:O	51:BT:122:ASP:HB2	2.21	0.40
52:BU:59:ARG:HA	52:BU:62:ILE:HB	2.03	0.40
52:BU:114:LYS:HG2	52:BU:114:LYS:H	1.70	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:118:U:O4	1:AA:289:G:H4'	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
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.21	0.40
1:AA:1117:G:O3'	9:AI:104:ARG:HD2	2.21	0.40
1:AA:1297:C:H1'	7:AG:114:ARG:HH21	1.85	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
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:7:GLU:HB3	5:AE:112:LEU:HD22	2.03	0.40
5:AE:30:ALA:O	5:AE:45:PHE:HA	2.21	0.40
5:AE:32:VAL:HG12	5:AE:33:VAL:N	2.36	0.40
5:AE:123:LEU:O	5:AE:125:SER:O	2.40	0.40
6:AF:2:ARG:HH11	6:AF:92:LYS:CE	2.34	0.40
7:AG:120:ILE:O	7:AG:121:ALA:C	2.59	0.40
8:AH:35:ILE:O	8:AH:37:ARG:N	2.54	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
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
12:AL:126:LYS:CB	24:AY:487:ARG:NH2	2.56	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
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:C	25:B0:60:PHE:CD1	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:B6:26:ASN:ND2	31:B6:32:ASN:OD1	2.54	0.40
31:B6:27:LYS:HG3	31:B6:30:THR:OG1	2.21	0.40
34:B9:23:VAL:HG23	34:B9:36:GLN:OE1	2.22	0.40
35:BA:29:U:C4'	52:BU:11:ARG:HH22	2.34	0.40
35:BA:40:C:C4	35:BA:41:C:N4	2.88	0.40
35:BA:79:G:C6	35:BA:80:G:N7	2.90	0.40
35:BA:110:G:C2'	35:BA:111:A:H5'	2.50	0.40
35:BA:329:G:N7	56:BY:71:LYS:HE3	2.36	0.40
35:BA:382:G:H2'	35:BA:383:U:C5'	2.50	0.40
35:BA:790:C:O2'	35:BA:791:C:OP1	2.29	0.40
35:BA:940:G:C3'	35:BA:941:A:H5''	2.51	0.40
35:BA:942:G:C5'	47:BP:36:LYS:H	2.34	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
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

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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
38:BD:193:VAL:HG12	38:BD:193:VAL:H	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
39:BE:21:VAL:C	39:BE:22:PRO:O	2.58	0.40
40:BF:33:LEU:CD1	40:BF:109:GLY:O	2.68	0.40
40:BF:103:LYS:O	40:BF:107:LYS:HG2	2.21	0.40
40:BF:155:LEU:HD12	40:BF:156:LEU:H	1.86	0.40
40:BF:205:ARG:O	40:BF:205:ARG:HG2	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
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
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
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:32:A:OP1	1:AA:398:C:C1'	2.64	0.40
1:AA:172:A:N7	1:AA:174:C:C5	2.89	0.40
1:AA:188:C:H4'	20:AT:89:ARG:NH1	2.36	0.40
1:AA:274:A:H4'	1:AA:275:G:OP1	2.20	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:587:G:N2	1:AA:755:G:C4	2.90	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
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:O2	1:AA:1205:U:H2'	2.21	0.40
1:AA:1216:G:OP1	14:AN:2:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1250:A:C2	1:AA:1370:G:H1'	2.57	0.40
1:AA:1357:A:O2'	14:AN:34:TYR:HE1	2.03	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
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:OD1	11:AK:34:ASP:C	2.59	0.40
12:AL:75:HIS:CD2	12:AL:77:LEU:N	2.88	0.40
13:AM:3:ARG:O	13:AM:4:ILE:CG1	2.69	0.40
13:AM:96:LEU:C	13:AM:110:ARG:HE	2.24	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
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:HH11	28:B3:35:ARG:HB2	1.86	0.40
31:B6:32:ASN:O	31:B6:33:LYS:HB2	2.21	0.40
32:B7:10:ARG:NE	35:BA:770:G:H5''	2.37	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:122:G:C4	35:BA:123:G:C8	3.09	0.40
35:BA:239:U:C4	35:BA:240:G:C6	3.09	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:2132:U:O4	37:BC:5:LYS:HG2	2.20	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
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: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
36:BB:23:G:H2'	36:BB:24:G:C8	2.56	0.40
37:BC:96:GLY:C	37:BC:97:GLU:HG2	2.42	0.40
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.86	0.40
38:BD:171:ASP:O	38:BD:172:TYR:HD1	2.03	0.40
38:BD:175:LEU:HD22	38:BD:175:LEU:HA	1.82	0.40
39:BE:48:GLN:CD	39:BE:78:LEU:HD13	2.42	0.40
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	3.04	0.40
40:BF:80:ALA:O	40:BF:81:PRO:C	2.57	0.40
40:BF:110:LEU:C	40:BF:110:LEU:CD1	2.89	0.40
41:BG:38:VAL:HA	41:BG:93:THR:HA	2.03	0.40
41:BG:106:LEU:HD21	41:BG:157:ILE:CD1	2.51	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:HD1	50:BS:29:PHE:O	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:5:LEU:HB3	57:BZ:59:LEU:HD23	2.03	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
1:AA:349:A:H2'	1:AA:350:G:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:AA:1059:C:H2'	1:AA:1060:C:H6	1.85	0.40
1:AA:1133:G:C2	1:AA:1142:G:N1	2.89	0.40
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	2.02	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:H6	1:AA:1436:U:O5'	2.04	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
2:AB:136:VAL:O	2:AB:136:VAL:HG12	2.21	0.40
3:AC:67:THR:HG1	3:AC:102:ASN:HD22	1.64	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
4:AD:163:GLU:O	4:AD:166:LYS:HG3	2.22	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
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:HG3	10:AJ:45:ARG:HH11	1.86	0.40
12:AL:93:LEU:HB2	12:AL:96:VAL:CG2	2.51	0.40
12:AL:108:ALA:O	12:AL:109:GLY:O	2.39	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:O	15:AO:66:LEU:HG	2.21	0.40
15:AO:62:GLN:HA	15:AO:65:ARG:HD2	2.04	0.40
18:AR:31:LEU:HD23	18:AR:31:LEU:N	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:CD2	25:B0:80:HIS:H	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
33:B8:13:ARG:CD	47:BP:61:ARG:HD3	2.46	0.40
35:BA:65:C:H42	35:BA:89:G:H1	1.70	0.40
35:BA:111:A:H2'	35:BA:112:U:H6	1.81	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:750:A:OP1	35:BA:1615:C:N4	2.54	0.40
35:BA:999:U:C5	35:BA:1154:G:C4	2.99	0.40
35:BA:1022:G:N7	35:BA:1140:C:C4	2.89	0.40
35:BA:1069:A:C2	35:BA:1096:A:H4'	2.57	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:H6	35:BA:1476:C:H3'	1.87	0.40
35:BA:1494:A:N3	35:BA:1494:A:C5'	2.82	0.40
35:BA:1566:A:OP1	38:BD:211:ARG:NH1	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:1817:G:OP1	38:BD:88:ARG:NH2	2.54	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
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
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
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:68:GLU:HG3	45:BN:88:GLU:HG3	2.04	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
46:BO:24:VAL:CG2	46:BO:30:ALA:O	2.67	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:O	53:BV:6:LYS:HG2	2.20	0.40
53:BV:19:LYS:HB2	53:BV:96:ILE:CD1	2.51	0.40
54:BW:52:GLU:N	54:BW:52:GLU:OE1	2.55	0.40
55:BX:54:VAL:O	55:BX:54:VAL:HG12	2.20	0.40
56:BY:26:LYS:HB3	56:BY:27:VAL:H	1.57	0.40
57:BZ:23:LYS:HD3	57:BZ:38:TYR:CZ	2.56	0.40
57:BZ:28:MET:O	57:BZ:28:MET:SD	2.80	0.40
57:BZ:40:ASP:OD1	57:BZ:40:ASP:C	2.60	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
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
2:AB:102:LEU:O	2:AB:105:PHE:CA	2.70	0.40
3:AC:5:ILE:HD13	3:AC:5:ILE:H	1.87	0.40
3:AC:157:ILE:HD12	3:AC:164:ARG:HB2	2.03	0.40
4:AD:32:ALA:O	4:AD:33:MET:C	2.60	0.40
5:AE:7:GLU:O	5:AE:8:GLU:CB	2.68	0.40
5:AE:51:VAL:O	5:AE:52:PRO:C	2.60	0.40
5:AE:70:PRO:CD	5:AE:142:LEU:HB3	2.50	0.40
5:AE:91:LEU:CD1	5:AE:120:THR:CB	2.99	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:H	15:AO:26:GLU:HG2	1.58	0.40
18:AR:55:ARG:HA	18:AR:55:ARG:HD2	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
29:B4:27:THR:HG23	41:BG:143:GLU:OE1	2.22	0.40
30:B5:9:LYS:O	30:B5:11:THR:N	2.54	0.40
30:B5:13:LYS:C	30:B5:16:ARG:H	2.25	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
32:B7:39:ARG:HD3	35:BA:458:G:O2'	2.22	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:77:C:H6	35:BA:77:C:O5'	2.04	0.40
35:BA:85:G:C6	35:BA:98:G:C2	3.10	0.40
35:BA:183:C:O2	35:BA:215:G:N2	2.54	0.40
35:BA:269:U:C5	35:BA:271(Y):U:C6	3.09	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
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:570:G:C6	35:BA:2030:A:C2	3.09	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:691:C:H5'	38:BD:218:ARG:NH1	2.37	0.40
35:BA:739:G:H1'	35:BA:740:U:H5	1.87	0.40
35:BA:909:A:C2	35:BA:912:C:C2	3.09	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:1973:G:C6	35:BA:1974:C:C4	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:2572:A:C8	39:BE:144:ARG:HG2	2.57	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
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
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:83:ARG:CB	41:BG:84:LYS:HD2	2.49	0.40
41:BG:151:ALA:HB3	41:BG:153:ARG:HH11	1.85	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
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
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:59:ARG:HG2	52:BU:59:ARG:NH1	2.37	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
57:BZ:19:ARG:C	57:BZ:21:ALA:N	2.73	0.40
57:BZ:24:LEU:HD23	57:BZ:24:LEU:C	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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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 [i](#)

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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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

Sometimes 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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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 [i](#)

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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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 monosaccharides 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	-	27,34,34	2.58	7 (25%)	34,54,54	2.04	10 (29%)

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	-	-	10/15/38/38	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	8.37	1.47	1.33
58	AY	1000	GCP	PB-O3A	5.84	1.64	1.58
58	AY	1000	GCP	C2-N1	4.88	1.44	1.35
58	AY	1000	GCP	C4-N3	4.57	1.42	1.35
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 (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
58	AY	1000	GCP	C5-C6-N1	-6.21	114.93	123.43
58	AY	1000	GCP	C2-N1-C6	4.62	123.27	115.93
58	AY	1000	GCP	N3-C2-N1	-4.35	121.42	127.22
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	PB-O3A-PA	-2.47	124.74	132.56
58	AY	1000	GCP	O2G-PG-O1G	-2.37	106.11	112.39
58	AY	1000	GCP	C4-C5-C6	-2.30	118.61	120.80
58	AY	1000	GCP	C4-C5-N7	2.04	111.53	109.40
58	AY	1000	GCP	C1'-N9-C4	-2.01	123.10	126.64

There are no chirality outliers.

All (10) 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

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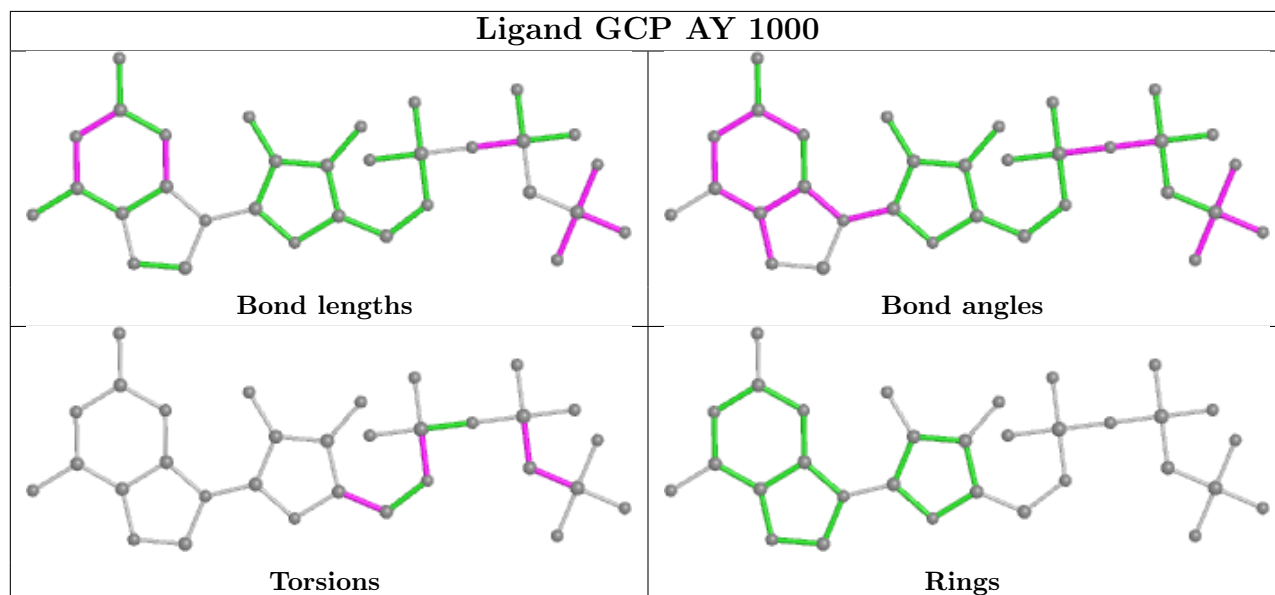
Mol	Chain	Res	Type	Atoms
58	AY	1000	GCP	PG-C3B-PB-O1B
58	AY	1000	GCP	PG-C3B-PB-O3A
58	AY	1000	GCP	C5'-O5'-PA-O3A
58	AY	1000	GCP	O4'-C4'-C5'-O5'
58	AY	1000	GCP	C3'-C4'-C5'-O5'
58	AY	1000	GCP	C5'-O5'-PA-O1A
58	AY	1000	GCP	PB-C3B-PG-O3G
58	AY	1000	GCP	PG-C3B-PB-O2B

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 [i](#)

### 6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	AA	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 <sup>2</sup> )	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 <sup>2</sup> )	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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
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 [i](#)

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

## 6.3 Carbohydrates [i](#)

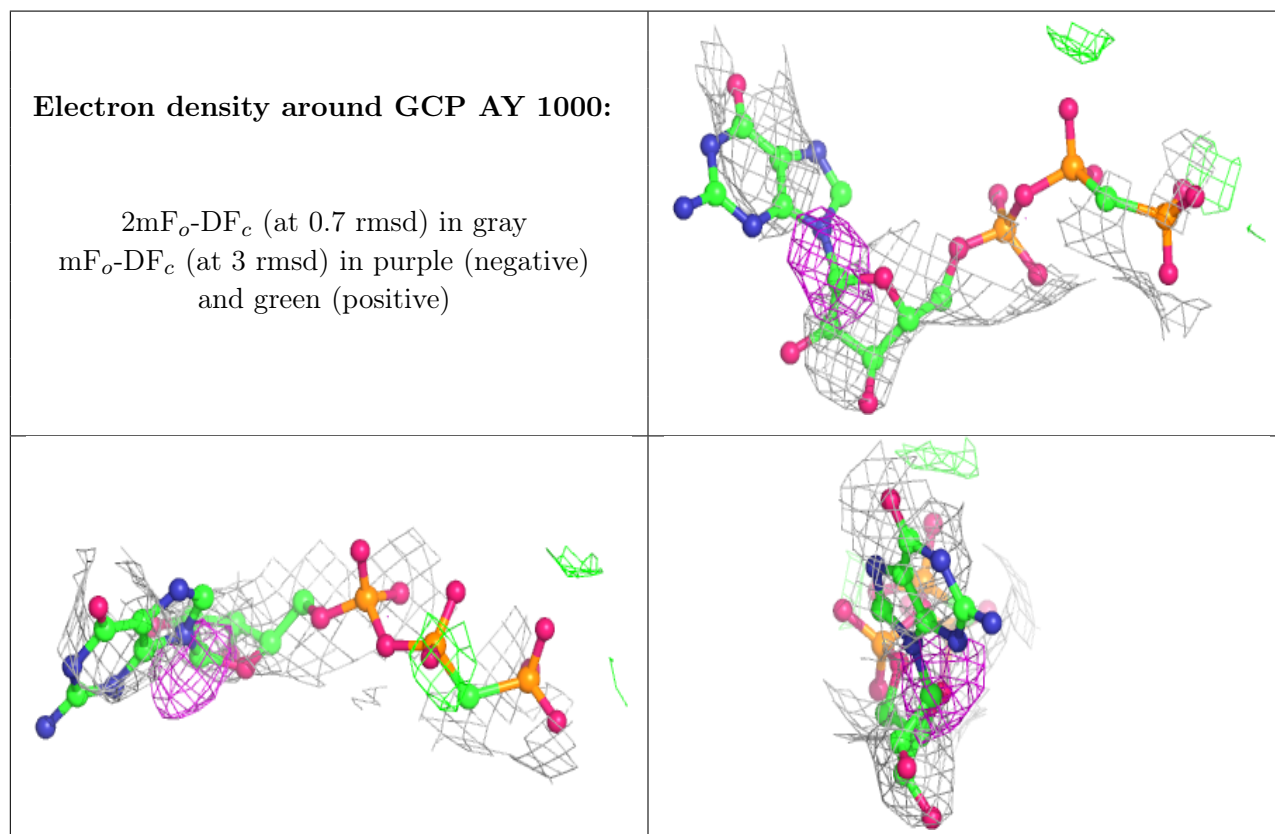
There are no monosaccharides in this entry.

## 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, 95<sup>th</sup> 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(Å <sup>2</sup> )	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.