



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2014 – 06:37 PM BST

PDB ID : 4V5E  
Title : Insights into translational termination from the structure of RF2 bound to the ribosome  
Authors : Weixlbaumer, A.; Jin, H.; Neubauer, C.; Voorhees, R.M.; Petry, S.; Kelley, A.C.; Ramakrishnan, V.  
Deposited on : 2009-04-30  
Resolution : 3.45 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

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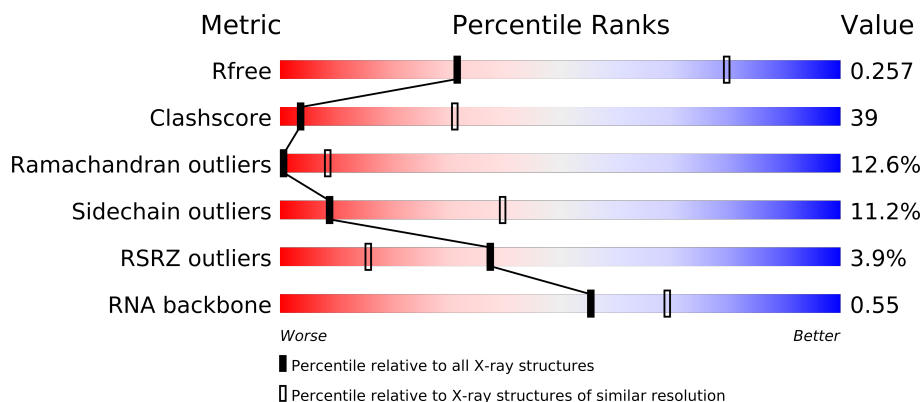
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.16 November 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable23397  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable23397

# 1 Overall quality at a glance

The reported resolution of this entry is 3.45 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))
$R_{free}$	66092	1149 (3.62-3.30)
Clashscore	79885	1012 (3.60-3.32)
Ramachandran outliers	78287	1401 (3.62-3.30)
Sidechain outliers	78261	1401 (3.62-3.30)
RSRZ outliers	66119	1149 (3.62-3.30)
RNA backbone	1838	1004 (4.10-2.76)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	AA	1522	
1	CA	1522	
2	AB	256	
2	CB	256	
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	

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Mol	Chain	Length	Quality of chain
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	76	
22	AW	76	
22	CV	76	
22	CW	76	
23	AX	8	
23	CX	8	
24	AY	351	
24	CY	351	
25	B0	85	
25	D0	85	
26	B1	98	
26	D1	98	

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Mol	Chain	Length	Quality of chain
27	B2	72	
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2901	
35	DA	2901	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
44	BJ	130	
44	DJ	130	
45	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	

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Mol	Chain	Length	Quality of chain
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	
59	D4	30	
60	DI	148	

## 2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 304505 atoms, of which 0 are hydrogen and 0 are deuterium.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	126	Total	C	N	O	S	0	0	1
			976	614	197	164	1			
12	CL	126	Total	C	N	O	S	0	0	1
			976	614	197	164	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	121	Total	C	N	O	S	0	0	1
			956	591	198	165	2			
13	CM	121	Total	C	N	O	S	0	0	1
			956	591	198	165	2			

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			
19	CS	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			
20	CT	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			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a RNA chain called E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	AW	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CV	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			
22	CW	76	Total	C	N	O	P	0	0	0
			1619	723	290	531	75			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	8	Total	C	N	O	P	0	0	0
			166	76	29	54	7			
23	CX	8	Total	C	N	O	P	0	0	0
			166	76	29	54	7			

- Molecule 24 is a protein called PEPTIDE CHAIN RELEASE FACTOR 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	351	Total	C	N	O	S	0	0	0
			2799	1751	503	537	8			
24	CY	351	Total	C	N	O	S	0	0	0
			2799	1751	503	537	8			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AY	303	GLU	ARG	CONFLICT	UNP Q5SM01
CY	303	GLU	ARG	CONFLICT	UNP Q5SM01

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
25	D0	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			
26	D1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			
27	D2	71	Total	C	N	O	S	0	0	0
			598	370	121	106	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
28	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	31	Total	C	N	O	S	0	0	1
			226	142	37	43	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
30	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
31	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
32	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
33	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			
34	D9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2886	Total	C	N	O	P	0	0	0
			62154	27663	11625	19981	2885			
35	DA	2886	Total	C	N	O	P	0	0	0
			62154	27663	11625	19981	2885			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	191	Total	C	N	O		0	0	1
			1142	691	221	230				
37	DC	191	Total	C	N	O		0	0	1
			1142	691	221	230				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
38	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			
42	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BJ	130	Total	C	N	O		0	0	0
			651	390	130	131				
44	DJ	130	Total	C	N	O		0	0	0
			651	390	130	131				

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BK	141	Total	C	N	O	S	0	0	1
			1038	661	184	187	6			
45	DK	141	Total	C	N	O	S	0	0	1
			1038	661	184	187	6			

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L13.

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

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L14.

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

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L15.

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

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L16.

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

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

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

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L18.

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

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L19.

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

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

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L20.

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

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L21.

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

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L22.

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

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L23.

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

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L24.

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

- Molecule 58 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			
58	DZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

- Molecule 59 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	D4	30	Total	C	N	O	S	0	0	0
			226	142	36	44	4			

- Molecule 60 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	DI	146	Total	C	N	O	S	0	0	1
			1133	724	201	207	1			

- Molecule 61 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	BA	354	Total	Mg	0	0
			354	354		
61	CA	157	Total	Mg	0	0
			157	157		
61	DQ	1	Total	Mg	0	0
			1	1		
61	DF	3	Total	Mg	0	0
			3	3		
61	CV	7	Total	Mg	0	0
			7	7		
61	AW	5	Total	Mg	0	0
			5	5		
61	DU	1	Total	Mg	0	0
			1	1		
61	B1	1	Total	Mg	0	0
			1	1		
61	DY	1	Total	Mg	0	0
			1	1		
61	BP	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	DC	1	Total 1	Mg 1	0	0
61	CY	1	Total 1	Mg 1	0	0
61	B5	2	Total 2	Mg 2	0	0
61	BB	4	Total 4	Mg 4	0	0
61	AE	1	Total 1	Mg 1	0	0
61	DB	4	Total 4	Mg 4	0	0
61	D3	1	Total 1	Mg 1	0	0
61	BF	1	Total 1	Mg 1	0	0
61	AV	7	Total 7	Mg 7	0	0
61	DR	1	Total 1	Mg 1	0	0
61	AA	157	Total 157	Mg 157	0	0
61	BQ	1	Total 1	Mg 1	0	0
61	D7	1	Total 1	Mg 1	0	0
61	BC	1	Total 1	Mg 1	0	0
61	AM	1	Total 1	Mg 1	0	0
61	BU	1	Total 1	Mg 1	0	0
61	CN	1	Total 1	Mg 1	0	0
61	DD	2	Total 2	Mg 2	0	0
61	DH	1	Total 1	Mg 1	0	0
61	B3	1	Total 1	Mg 1	0	0
61	DX	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	DA	353	Total 353	Mg 353	0	0
61	B7	2	Total 2	Mg 2	0	0
61	AL	1	Total 1	Mg 1	0	0
61	D1	1	Total 1	Mg 1	0	0
61	BS	1	Total 1	Mg 1	0	0
61	CW	5	Total 5	Mg 5	0	0
61	D5	2	Total 2	Mg 2	0	0
61	BD	2	Total 2	Mg 2	0	0
61	AY	1	Total 1	Mg 1	0	0
61	CL	1	Total 1	Mg 1	0	0
61	BH	1	Total 1	Mg 1	0	0

- Molecule 62 is ZINC ION (three-letter code: ZN) (formula: Zn).

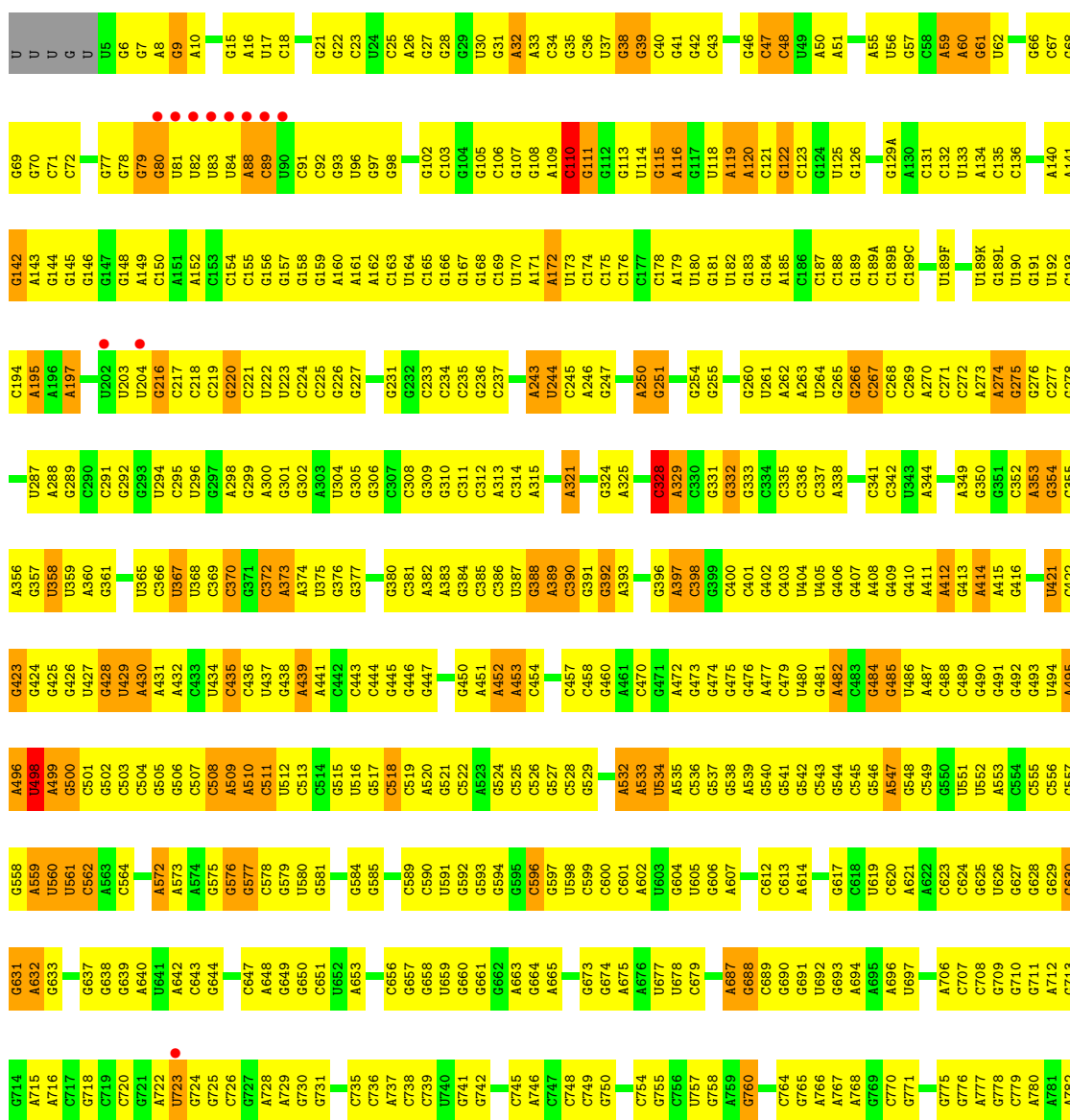
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	CN	1	Total 1	Zn 1	0	0
62	AN	1	Total 1	Zn 1	0	0
62	B9	1	Total 1	Zn 1	0	0
62	D9	1	Total 1	Zn 1	0	0
62	CD	1	Total 1	Zn 1	0	0
62	AD	1	Total 1	Zn 1	0	0

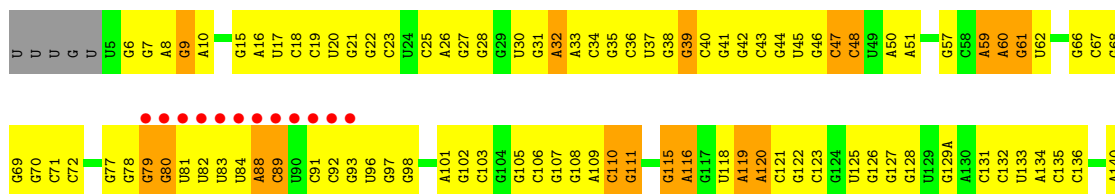
### 3 Residue-property plots

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

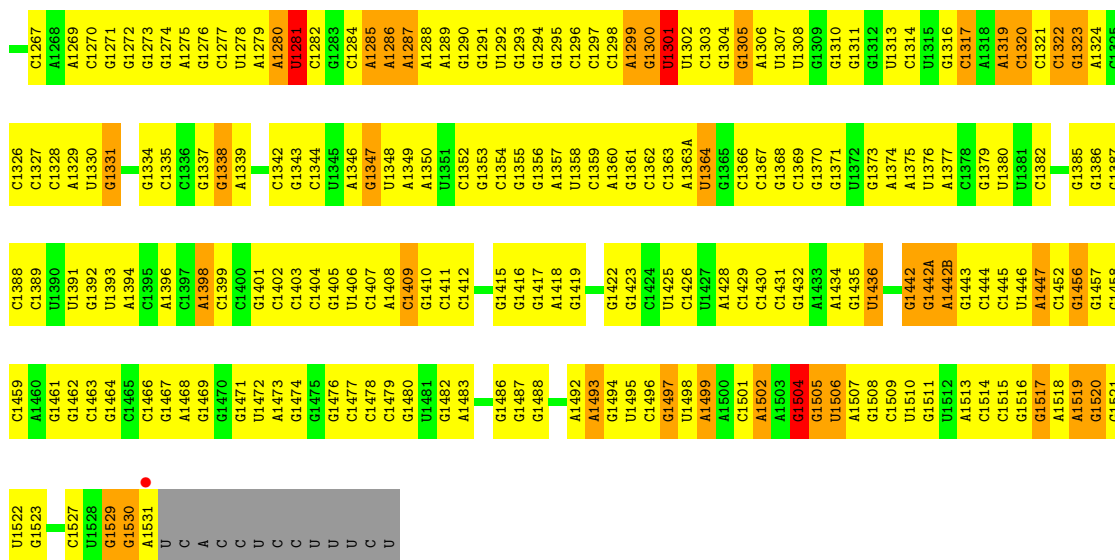
#### • Molecule 1: 16S RRNA

Chain AA: 



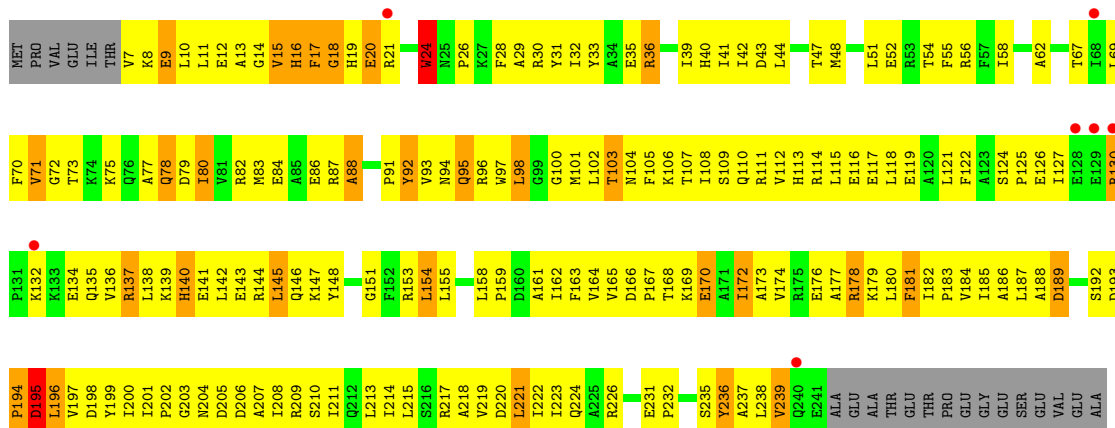






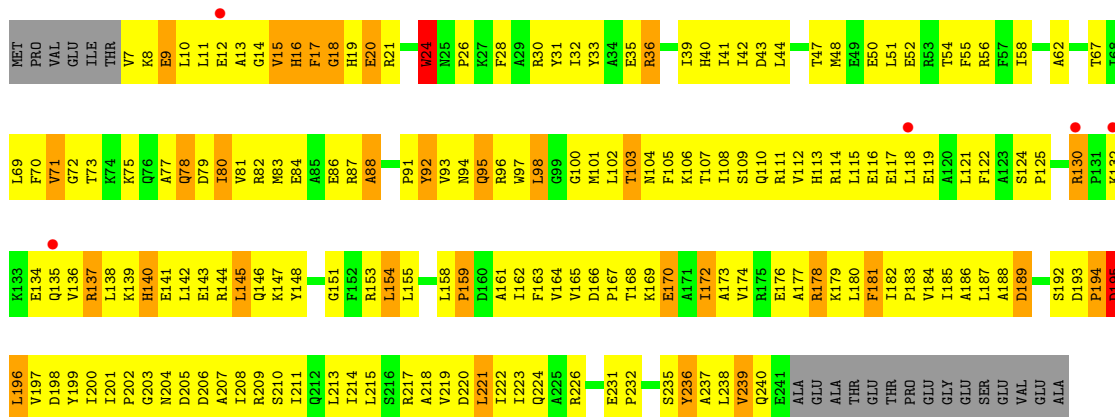
### • Molecule 2: 30S RIBOSOMAL PROBLEM S2

Chain AB:



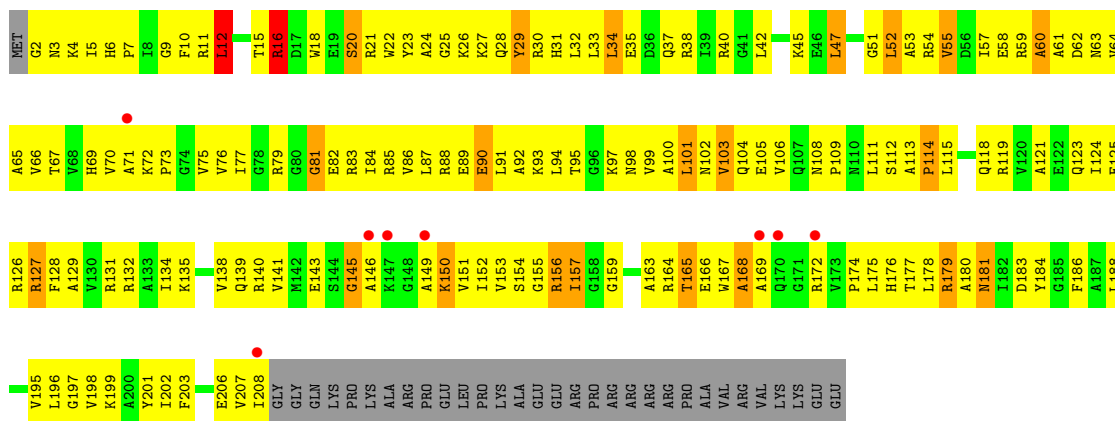
### • Molecule 2: 30S RIBOSOMAL PROBLEM S2

Chain CB:



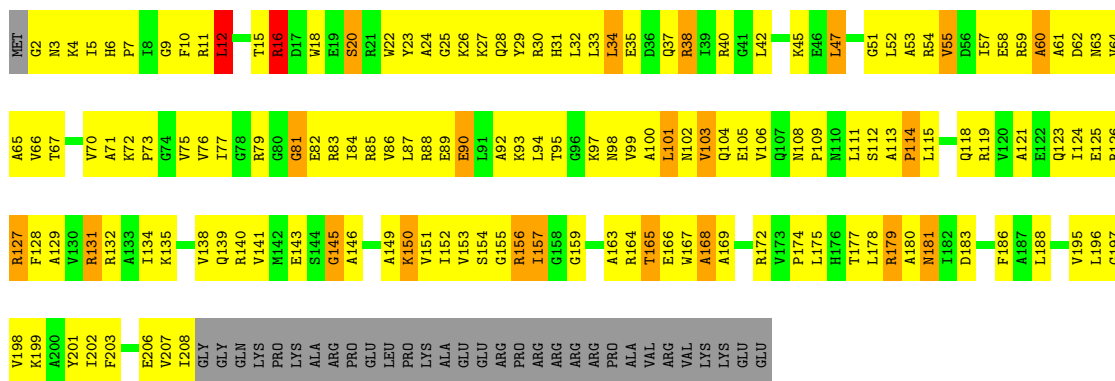
### • Molecule 3: 30S RIBOSOMAL PROBLEM S3

## Chain AC:



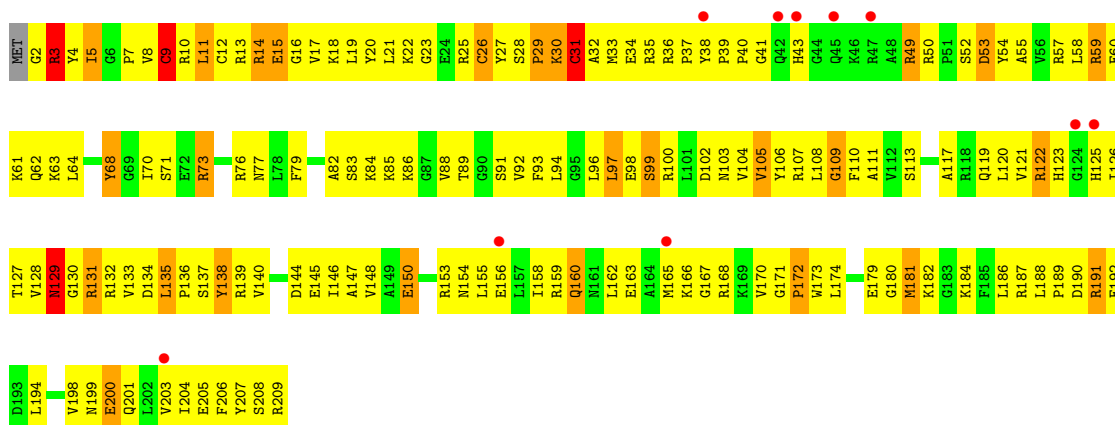
- Molecule 3: 30S RIBOSOMAL PROTEIN S3

## Chain CC:



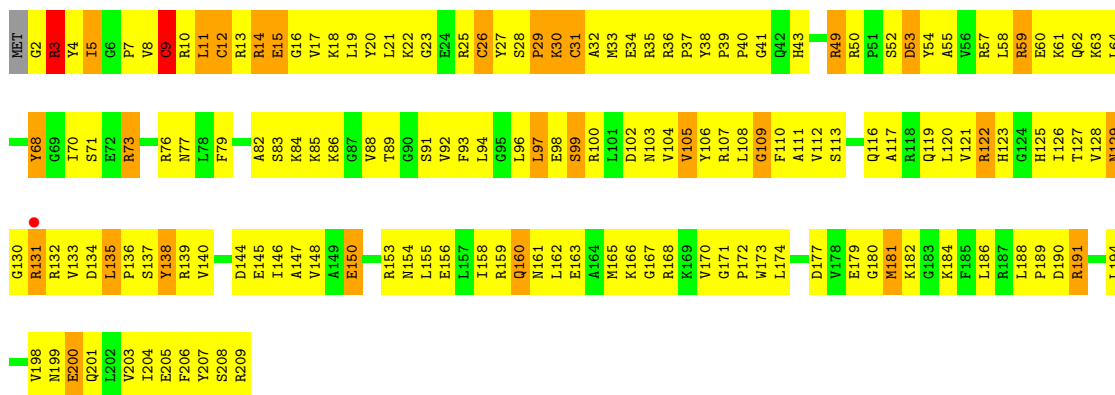
- Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain AD:



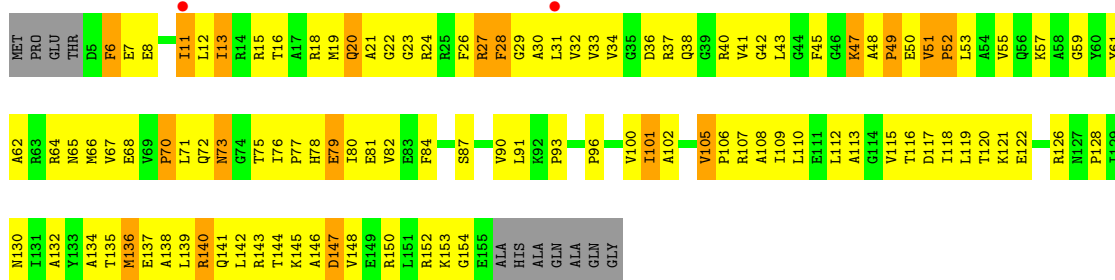
- Molecule 4: 30S RIBOSOMAL PROTEIN S4

## Chain CD:



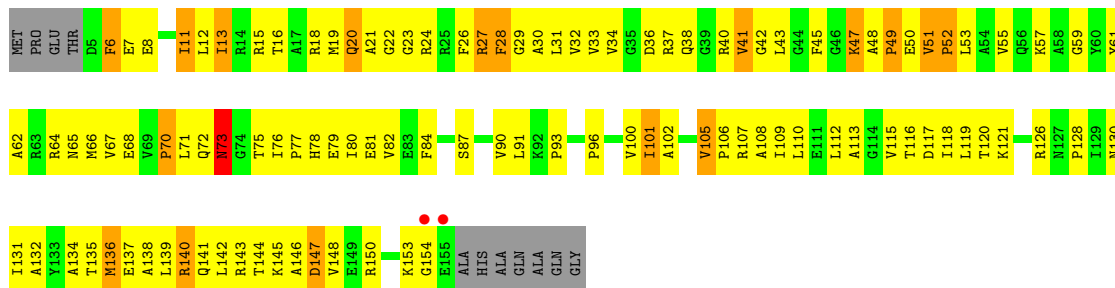
• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain AE:



• Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain CE:



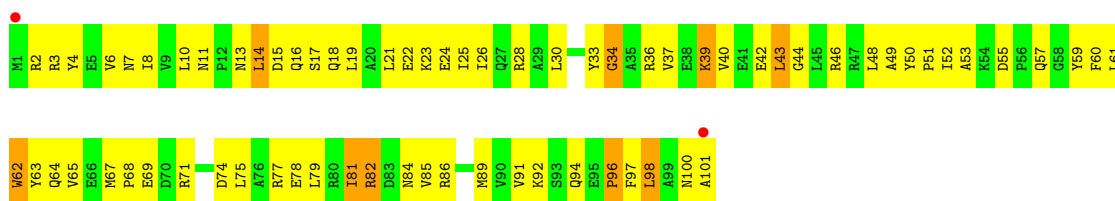
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AF:



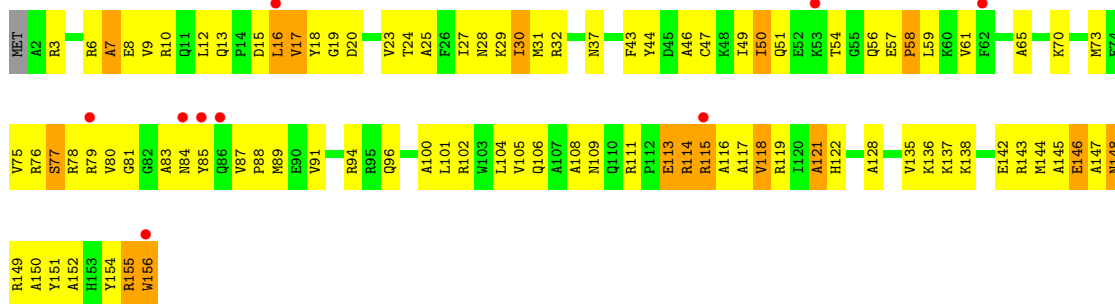
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain CF:



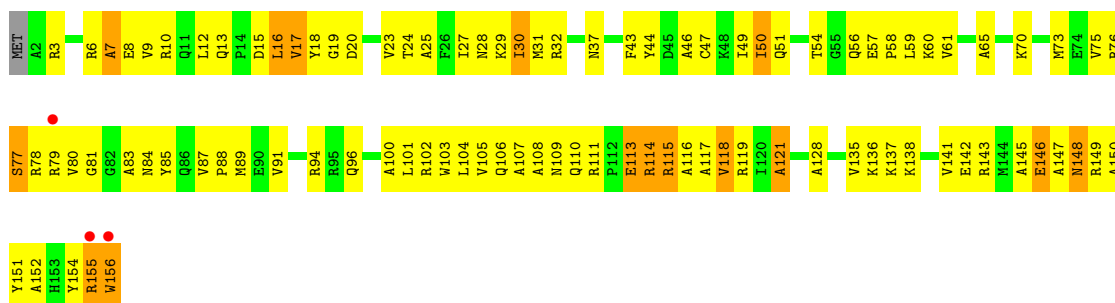
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain AG:



• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain CG:



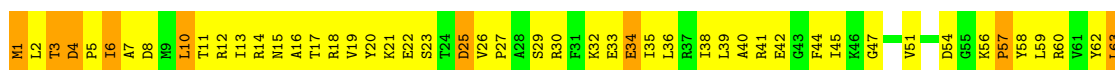
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

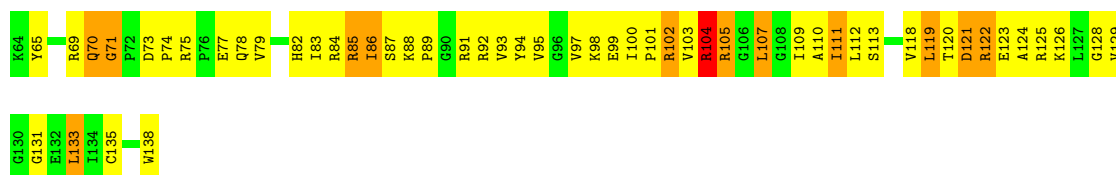
Chain AH:



• Molecule 8: 30S RIBOSOMAL PROTEIN S8

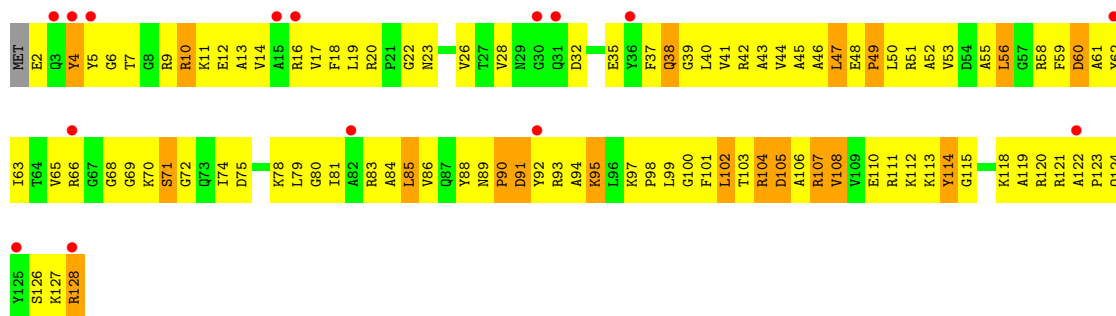
Chain CH:





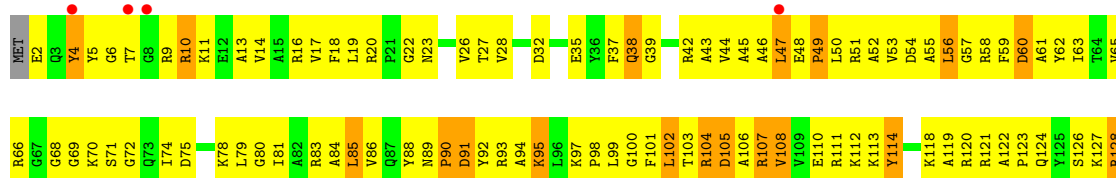
- Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain AI:



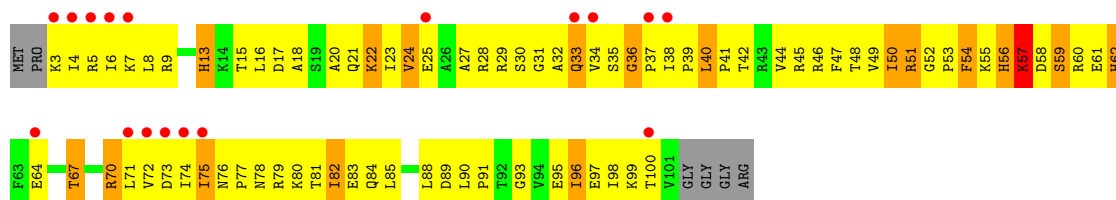
- Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain CI:



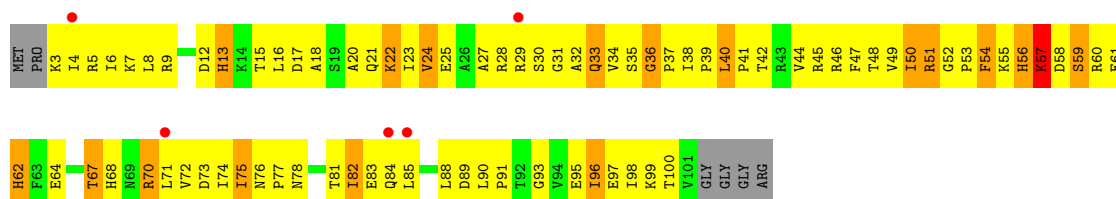
- Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain AJ:



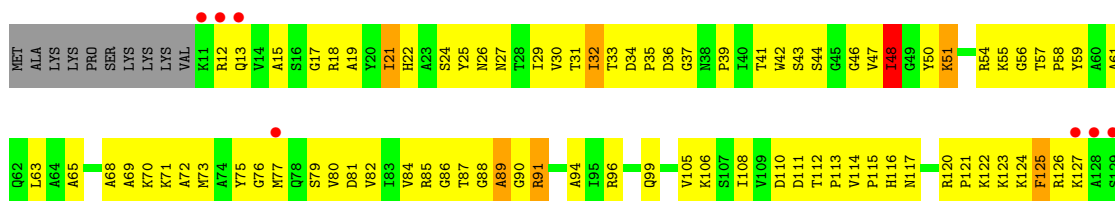
- Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain CJ:



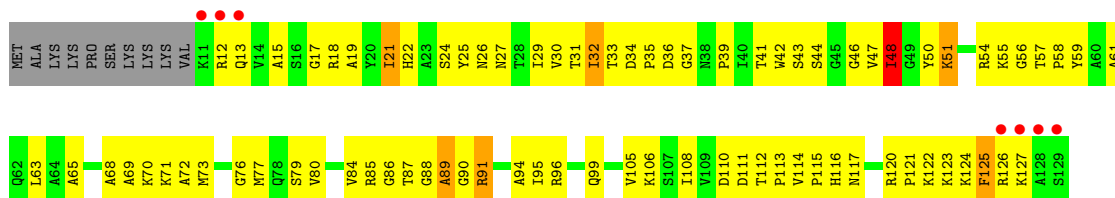
- Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain AK:



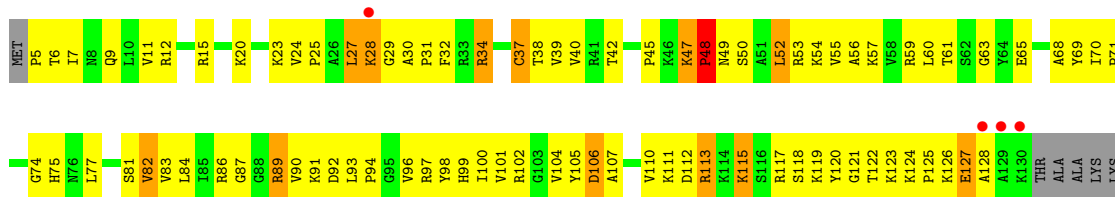
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain CK:



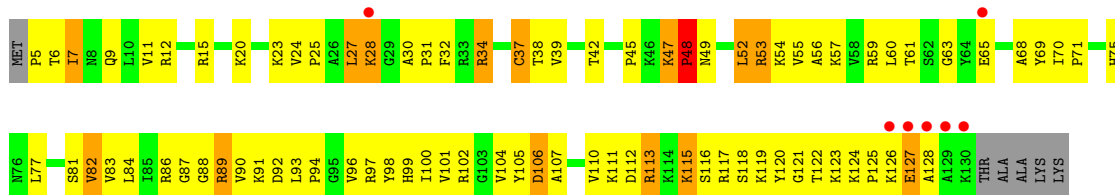
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

Chain AL:



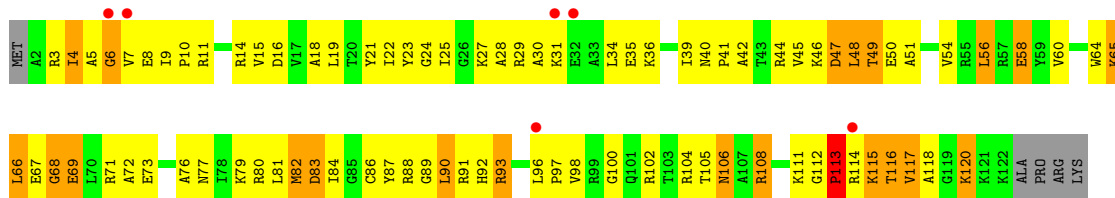
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

Chain CL:



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain AM:



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain CM:



• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain AN:



• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain CN:



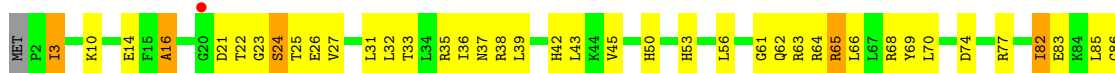
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AO:



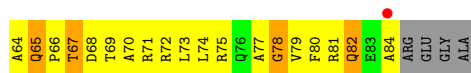
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CO:



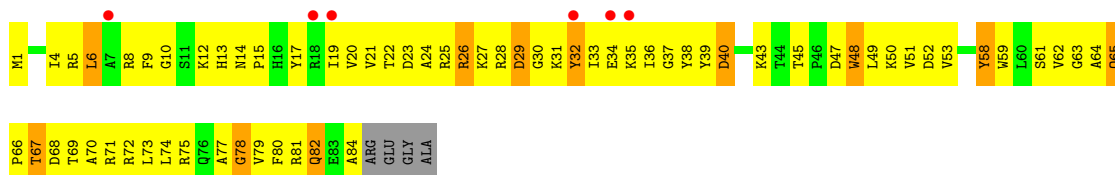
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain AP:



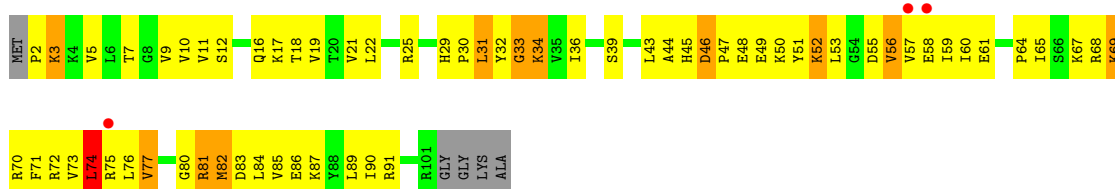
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CP:



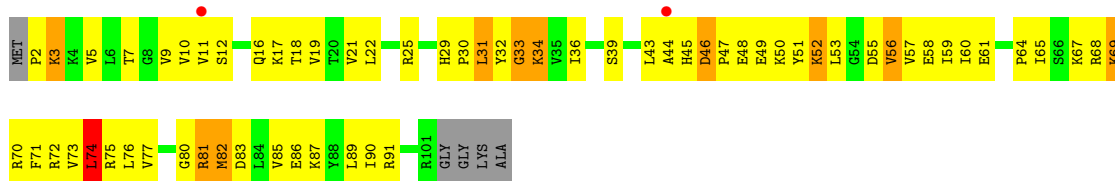
● Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ: 



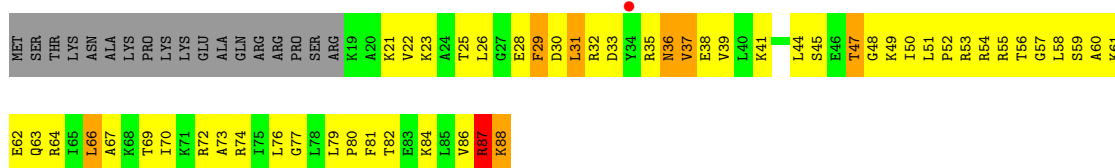
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain CQ: 



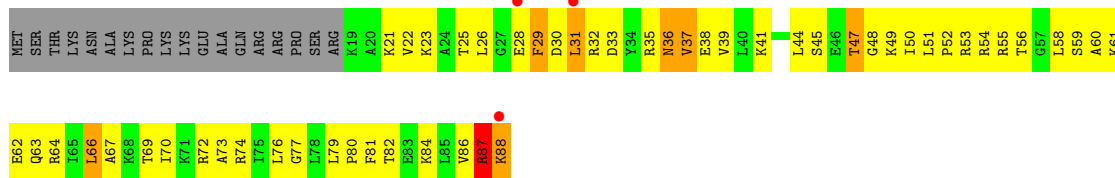
● Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR: 



- Molecule 18: 30S RIBOSOMAL PROTEIN S18

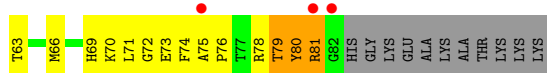
Chain CR: 



- Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS: 





• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain CS:



• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain AT:



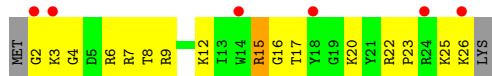
• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain CT:



• Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain AU:



• Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain CU:



• Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

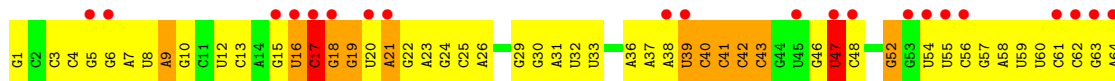
Chain AV:





- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

Chain AW:



- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

Chain CV:



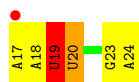
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)

Chain CW:



- Molecule 23: MRNA

Chain AX:



- Molecule 23: MRNA

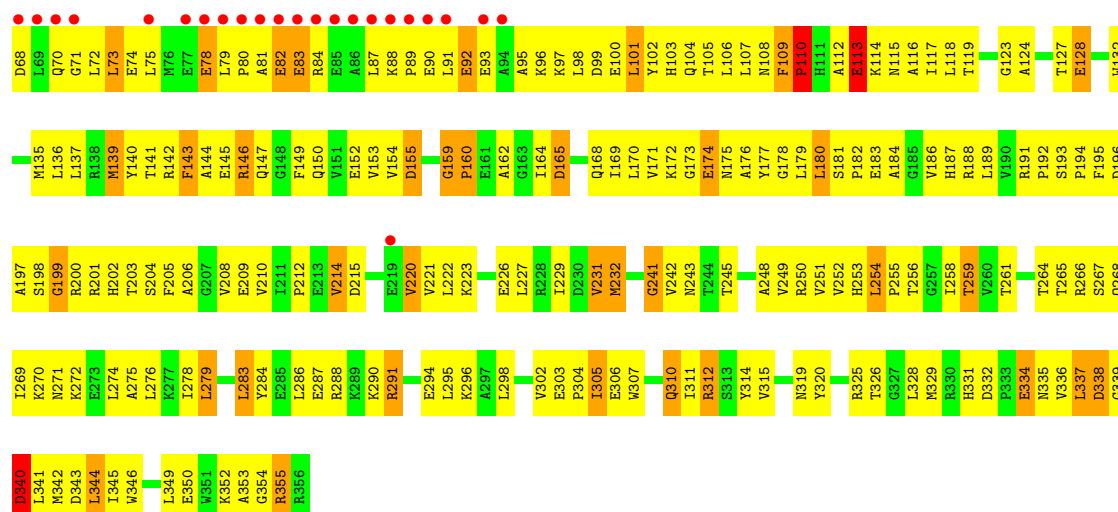
Chain CX:



- Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

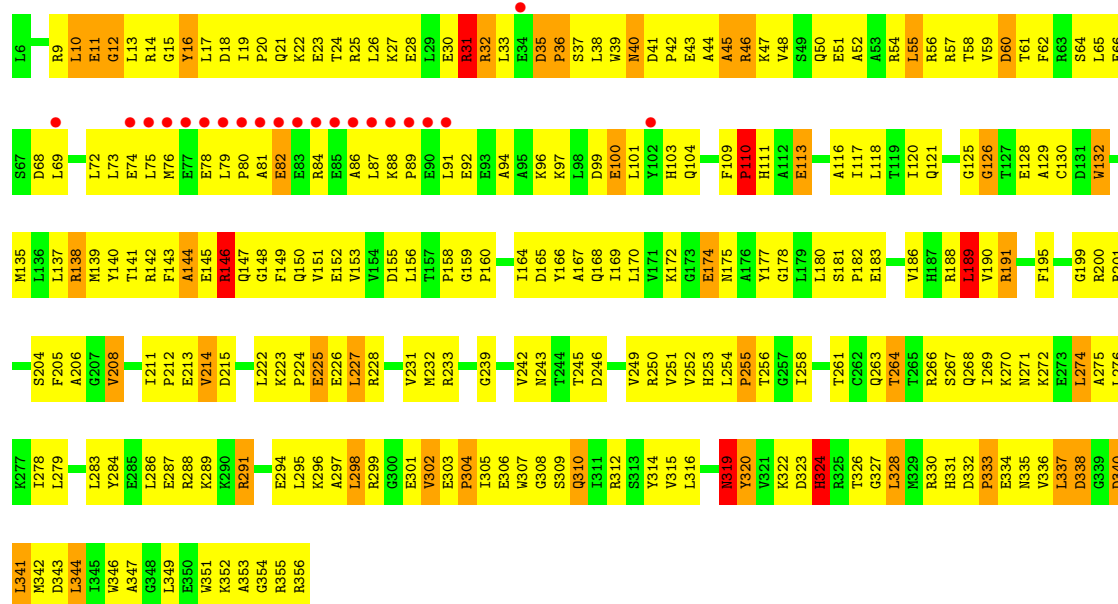
Chain AY:





### • Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

Chain CY:



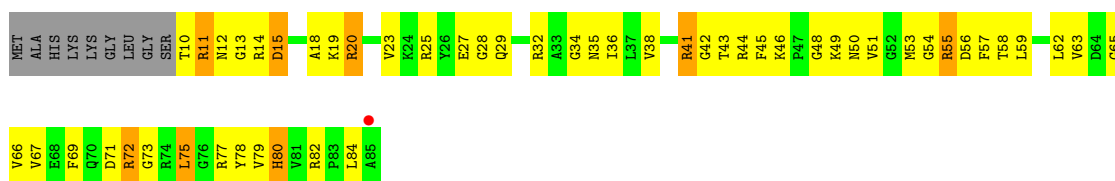
### • Molecule 25: 50S RIBOSOMAL PROTEIN L27

Chain B0:



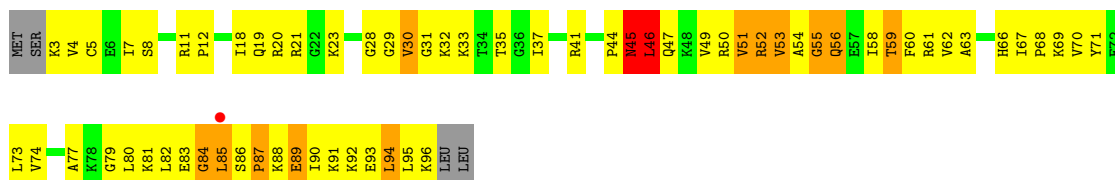
### • Molecule 25: 50S RIBOSOMAL PROTEIN L27

Chain D0:



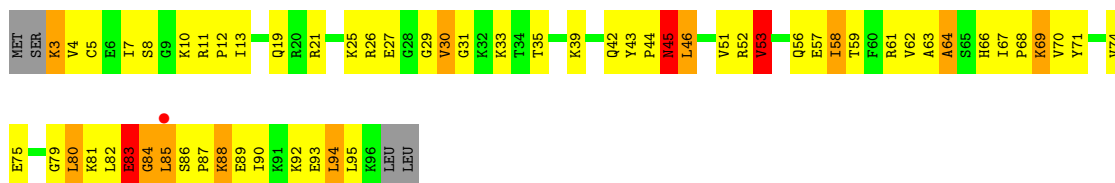
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

Chain B1:



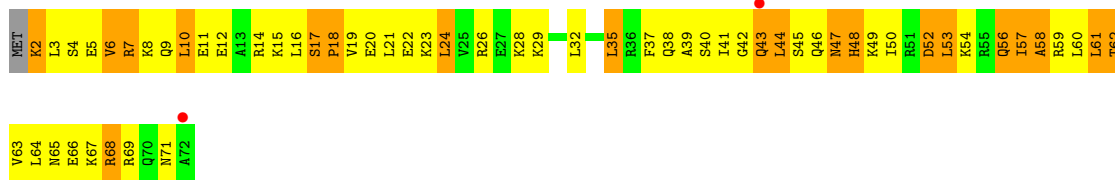
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

Chain D1:



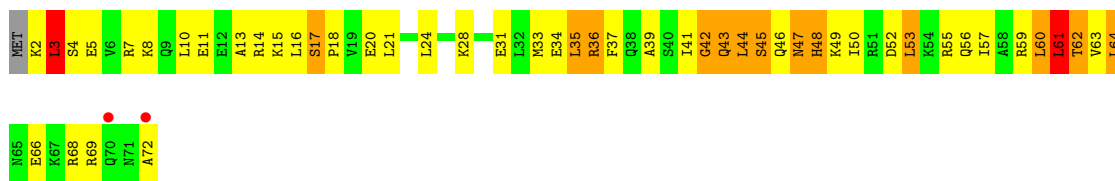
• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain B2:



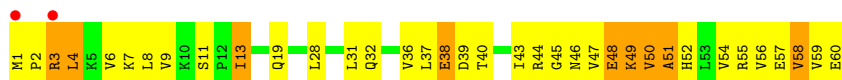
• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain D2:



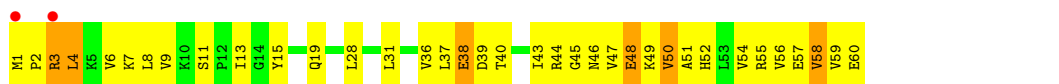
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain B3:



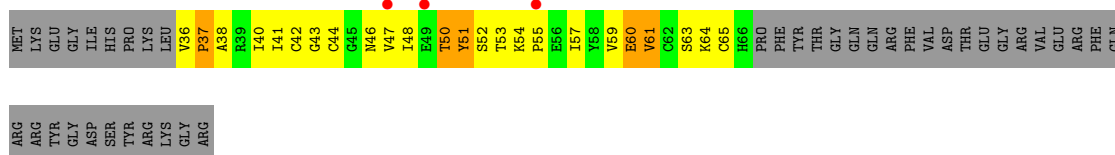
- Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain D3:



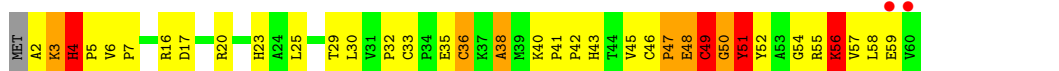
- Molecule 29: 50S RIBOSOMAL PROTEIN L31

Chain B4:



- Molecule 30: 50S RIBOSOMAL PROTEIN L32

Chain B5:



- Molecule 30: 50S RIBOSOMAL PROTEIN L32

Chain D5:



- Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain B6:



- Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain D6:



- Molecule 32: 50S RIBOSOMAL PROTEIN L34

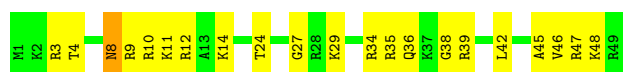
Chain B7:



- Molecule 32: 50S RIBOSOMAL PROTEIN L34

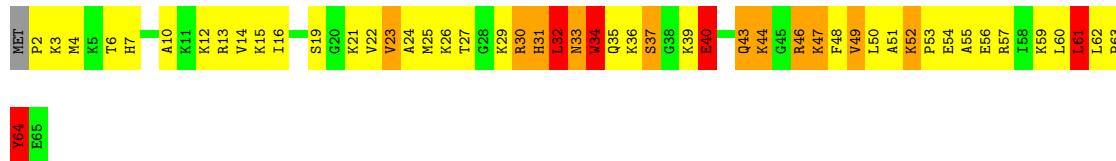
Chain D7:





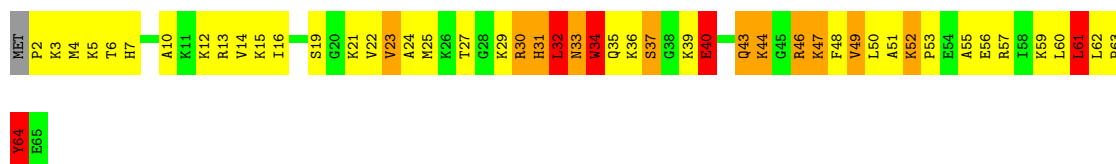
• Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain B8:



• Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain D8:



• Molecule 34: 50S RIBOSOMAL PROTEIN L36

Chain B9:



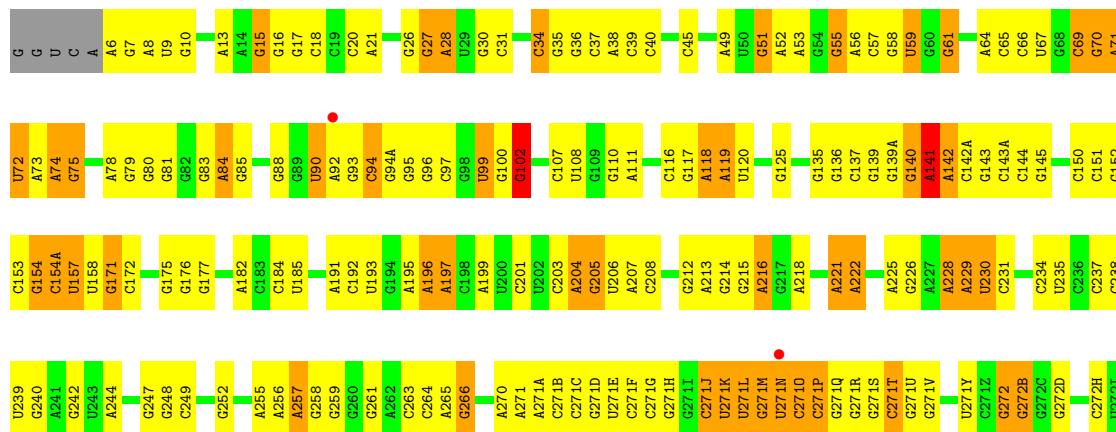
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

Chain D9:



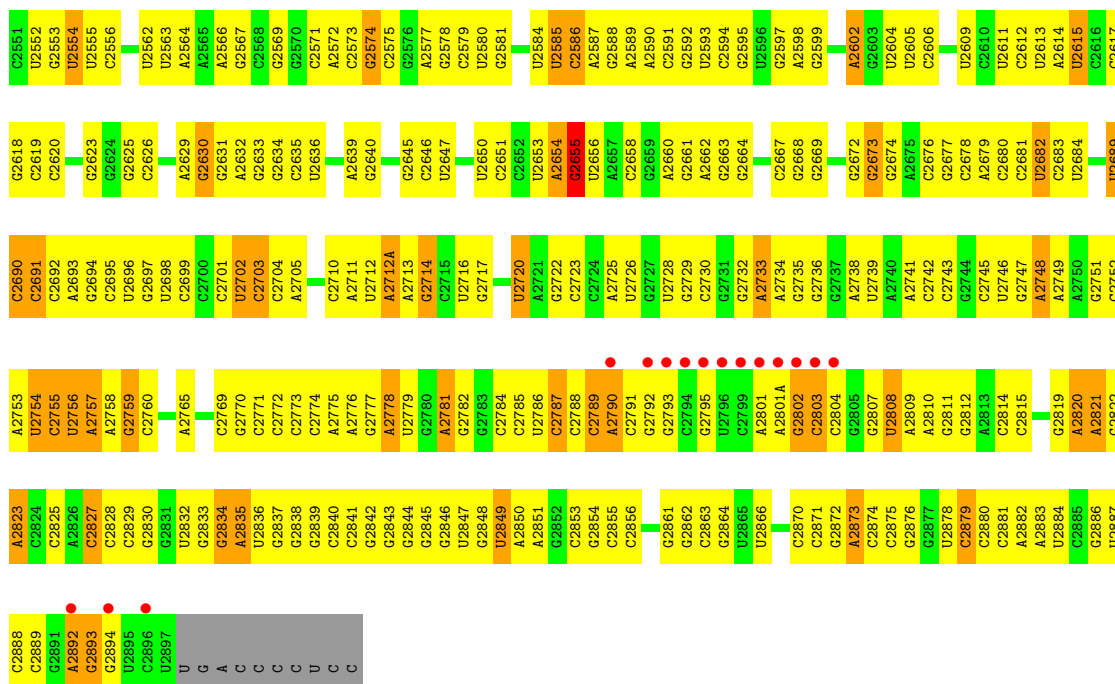
• Molecule 35: 23S RIBOSOMAL RNA

Chain BA:



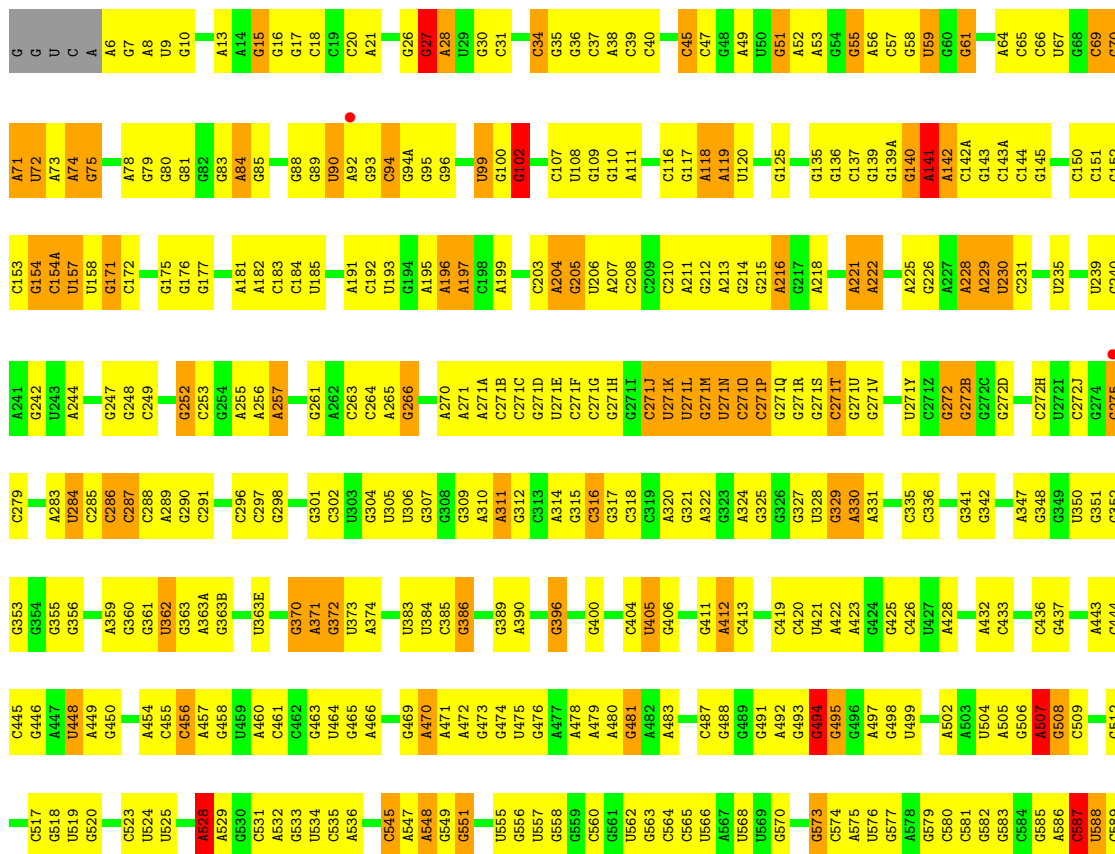
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A2476	A2477	G2481	G2482	G2483	G2484	G2485	G2414	G2415	G2416	G2417	G2418	G2419	G2420	G2421	G2422	G2423	G2424	G2425	G2426	G2427	G2428	G2429	G2430	G2431	A2432	A2433	A2434	G2437	A2438	A2439	G2440	G2441	G2442	G2443	G2444	G2445	G2446	G2447	A2448	G2449	A2450	A2451	G2455	A2533	G2534	G2535	G2536	G2537	G2466	G2467	G2539	G2468	A2469	G2470	G2543	G2544	G2550							
G2337	G2338	G2339	G2340	G2341	G2344	G2345	A2346	A2347	A2348	A2349	A2350	G2351	A2352	G2353	G2354	G2355	G2356	G2357	G2358	G2359	A2360	A2361	A2362	G2363	G2364	A2365	A2366	G2367	A2368	A2369	G2370	G2371	A2376	A2377	A2378	G2379	G2380	G2381	G2382	G2383	G2384	G2385	G2389	G2390	G2391	A2392	A2393	G2394	G2395	G2396	G2400	U2401	G2402	G2403	G2404	G2405								
A2273	A2274	G2275	G2276	G2277	G2278	G2282	G2283	G2284	G2285	A2286	A2287	A2288	G2289	G2290	U2291	G2292	G2293	G2294	G2295	U2296	G2297	A2298	A2299	G2300	G2301	G2302	G2303	G2304	A2305	G2306	G2307	G2308	A2309	A2310	A2311	U2312	G2313	G2314	G2315	G2316	G2317	G2318	G2319	A2320	G2321	G2325	G2326	A2327	A2328	G2329	G2330	G2331	U2332	A2333	G2334	A2335	A2336							
G2191	G2192	G2193	G2194	G2195	G2196	U2197	A2198	A2199	G2200	G2201	G2202	U2203	G2205	G2206	G2207	A2208	G2209	G2210	G2211	G2212	G2213	G2214	G2215	G2216	G2217	G2218	G2219	G2220	G2221	G2222	G2223	G2224	A2225	G2226	G2230	U2233	G2234	G2235	G2236	G2237	G2238	G2239	G2240	A2241	G2242	U2243	U2244	U2245	G2246	A2247	G2248	U2249	G2250	G2259	G2260	G2261	G2262	G2263	G2264	G2265	A2267	A2268	G2271	U2272
G2131	U2068	G2069	G2070	U2074	U2075	G2078	U2079	G2080	A2001	G2082	G2083	G2088	G2089	G2090	G2091	U2092	G2093	G2094	G2095	U2096	G2097	U2098	U2099	G2100	G2101	U2102	U2103	G2104	G2105	G2106	G2107	G2108	U2109	G2110	G2111	G2112	U2113	U2114	G2115	G2116	A2117	U2118	A2119	G2120	G2121	G2122	G2123	G2124	G2125	G2126	G2127	G2128	G2129	U2130										
U1911	U1912	A1913	C1914	A1918	U1923	C1924	C1925	U1926	A1927	A1928	G1929	U1930	U1931	A1932	G1933	U1934	G1935	A1936	A1937	A1938	U1939	U1940	C1941	U1946	U1947	G1948	G1949	A1952	G1955	C1958	G1959	A1960	C1961	U1963	G1964	C1967	G1968	A1969	U1970	A1971	A1972	G1973	C1974	U1979	G1980	A1981	A1982	G1983	A1984	A1985	C1986	G1987	G1988	A1989	G1989	A1990	A1991	C1990	G1996	G1997	C1998	G1999		
C1761	C1762	G1763	C1764	G1765	U1766	U1767	C1768	G1769	C1771	G1772	A1773	C1774	C1775	C1776	C1777	C1778	U1779	A1780	C1781	C1782	A1783	G1784	A1785	A1786	G1789	C1790	A1791	G1792	G1793	U1794	C1795	U1796	C1797	U1798	C1800	C1804	U1805	A1809	A1810	A1812	G1813	G1816	G1817	U1818	A1819	U1820																		
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C1504	C1505	A1506	A1507	C1508	A1509A	A1509B	G1510	U1511	U1512	C1513	U1514	G1515	C1516	U1517	U1518	U1519	G1520	U1523	G1524	C1525	G1526	C1527	A1528	A1528A	C1529	C1530	C1531	C1532	G1533	C1543	G1473	A1545	C1546	C1547	C1548	C1549	C1550	U1551	G1552	A1553	A1554	C1557	A1558	G1559	G1560	A1561	A1562	G1563	C1564	C1565	A1566	U1567	C1568	A1569	U1570	C1571	U1572							
C1437	U1438	A1439	G1440	G1441	G1442	A1445	A1445A	C1446	G1447	U1448	A1449	G1450	A1452	U1453	G1459	A1460	G1461	C1462	C1463	G1464	G1465	G1466	C1467	C1468	A1469	G1470	A1471	A1472	G1473	A1474	A1477	G1478	G1479	G1480	U1481	G1482	G1484	G1485	A1486	G1487	U1488	U1489	A1490	G1491	G1492	C1493	A1494	A1496	U1497	C1498	C1501	C1502	U1503											



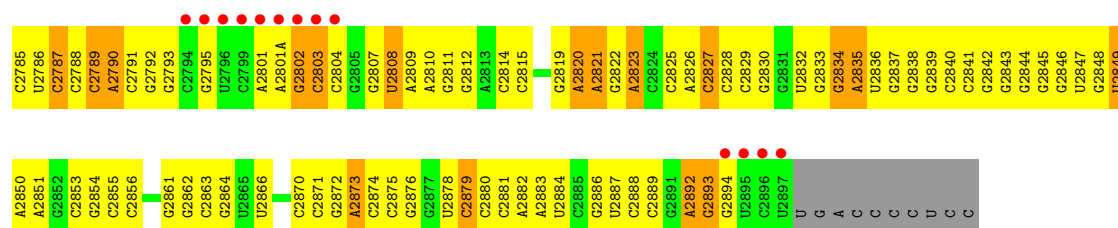
# • Molecule 35: 23S RIBOSOMAL RNA

Chain DA:



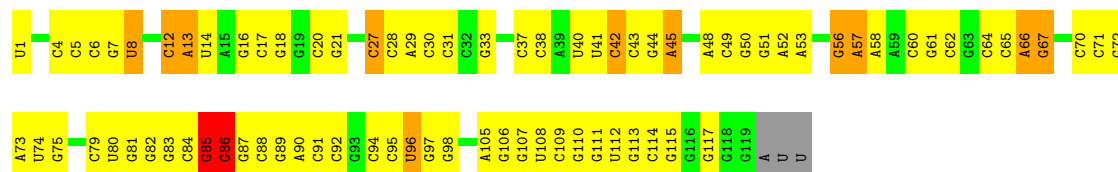
A1571	C1502	G1435	A1365	G1287	G1190	A1126	U1061	G993	G920	A849	A783	A706	A654	A590
A1572	U1503	G1436	G1368	U1288	G1191	A1127	G1062	C994	G921	C850	A784	G707	G654A	C591
C1504	C1504	G1437	G1369	C1289	G1192	A1128	G1063	C995	U922	G851	G785	C708	G654B	G592
C1506	C1506	U1438	G1370	C1290	G1193	A1129	G1064	A996	C923	G852	G786	U709	G654C	G593
U1507	U1507	A1194	U1372	U1291	A1194	U1130	U1065	C998	C924	G853	G787	G710	G654D	
C1508	A1508	G1440	U1372	U1292	G1195	U1131	U1066	C999	C925	G854	A788	G711	G654E	G598
C1509	C1509	G1441	A1373	C1293	U1132	U1132	U1067	U999	A926	G855	A789	G712	C654F	G599
A1509A	A1509A	G1442	G1374	C1297	C1201	U1133	A1067	A1000	G927	C856	G790	G713	G654G	G600
A1509B	A1509B	C1445	C1375	C1297	C1202	C1135	G1068	A1001	G928	G857	G791	U714	G654H	C601
G1510	G1510	C145A	C1376	G1298	A1203	G1136	A1069	G1002	G929	C858	G792	G715	G654I	G602
C1511	C1511	U1300	A1301	U1300	U1205		A1070	C1006	A933	G859	A793	A716	G654J	A603
U1512	U1512	A1378	A1378	U1300	U1208	U1141	C1071	U1006	A941	G862	G604	G717	G654K	G604
C1513	C1513	G1447	A1302	A1302	G1209	U1142	G1072		G942	A863	G794	A718	G654L	C605
U1514	U1514	G1448	G1380	A1302	U1210	A1143	C1075	A1010	U943	G864	G795	C719	G654M	U606
A1449	A1449	G1449	G1380	A1302	U1211	G1144	A1077	U1012	G944	A866	G796	G720	G654N	U607
G1450	G1450	G1381	G1381	A1302	U1212	C1145	U1078	C1013	G945	A870	G797	G723	G654O	A608
					G1215	C1146	C1079	U1014	G946	U871	G798	U724	G654P	G610
A1452	A1452	A1384	G1385	A1148		C1147	U1080	G1015	G947		G800	G725	G654Q	C611
U1453	U1453	C1386	C1385	A1148		C1148	U1081	G1016			A802	G731	G654R	G612
						C1149	U1082				A803	G732	G654S	G613
G1459	G1459	G1388	G1388	A1148		C1150	U1082				A804	G733	G654T	U614
A1460	A1460	G1389	G1389	A1148		C1151	U1082				G805	G733	G654U	U614A
G1461	G1461	G1389	G1389	A1148		C1152	U1082				G806	G733	G654V	G614B
C1462	C1462	G1389	G1389	A1148		C1153	U1082				G807	G733	G654W	A614C
G1463	G1463	U1396	U1397	G1320	G1223	C1154	U1082				G808	G733	G654X	G615
C1464	C1464	C1398	C1398	G1320	C1224	G1154	U1082				G809	G733	G654Y	
G1465	G1465	A1321	A1321	G1320	G1225	A1155	U1082				U810	G740	G654Z	
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C1470	C1470	G1404	G1404	U1329	G1235	U1160	U1082				G885	G740	G654Z	
A1471	A1471	U1405	U1405	U1329	U1236	C1161	U1082				G886	G740	G654Z	
A1472	A1472	C1406	C1406	U1329	U1236	G1162	U1082				G887	G740	G654Z	
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C1474	C1474	A1408	A1408	U1329	U1236	G1164	U1082				G889	G740	G654Z	
						U1165	U1082				A821	G740	G654Z	
A1477	A1477	G1410	G1410	U1335	G1248	U1166	U1082				G825	G753	G654Z	
G1478	G1478	C1411	C1411	A1336	U1249	C1167	U1082				U826	G754	G654Z	
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G1480	G1480	G1413	G1413	G1339	C1251	G1169	U1082				U828	G756	G654Z	
U1481	U1481	G1416	G1416	U1344	G1252	G1170	U1082				A829	G760	G654Z	
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C1501	C1501	A1434	A1434	G1364	A1286	U1189	U1082				G846	G780	G654Z	
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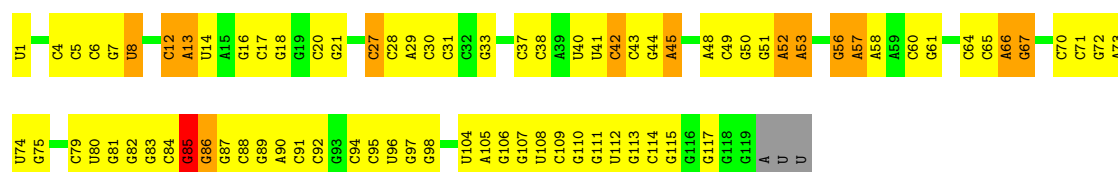
• Molecule 36: 5S RIBOSOMAL RNA

Chain BB:



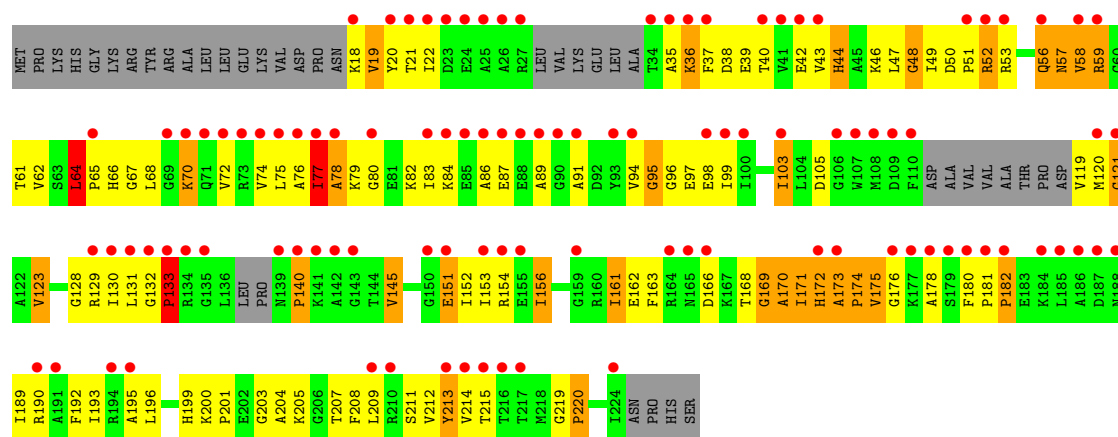
• Molecule 36: 5S RIBOSOMAL RNA

Chain DB:



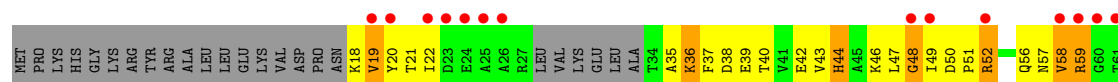
• Molecule 37: 50S RIBOSOMAL PROTEIN L1

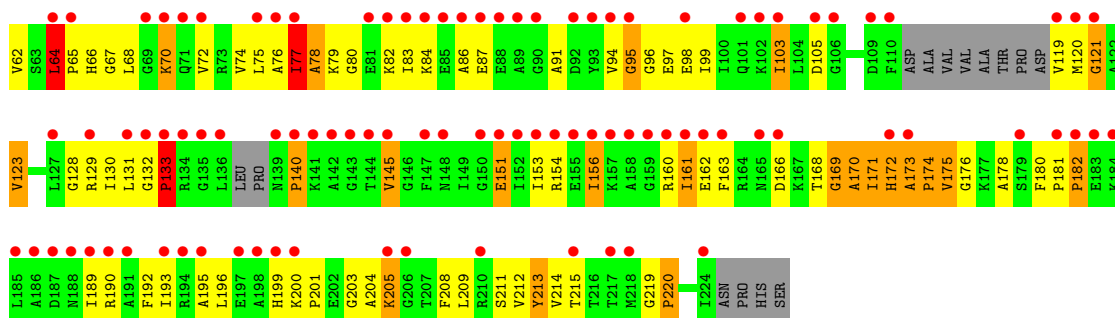
Chain BC:



• Molecule 37: 50S RIBOSOMAL PROTEIN L1

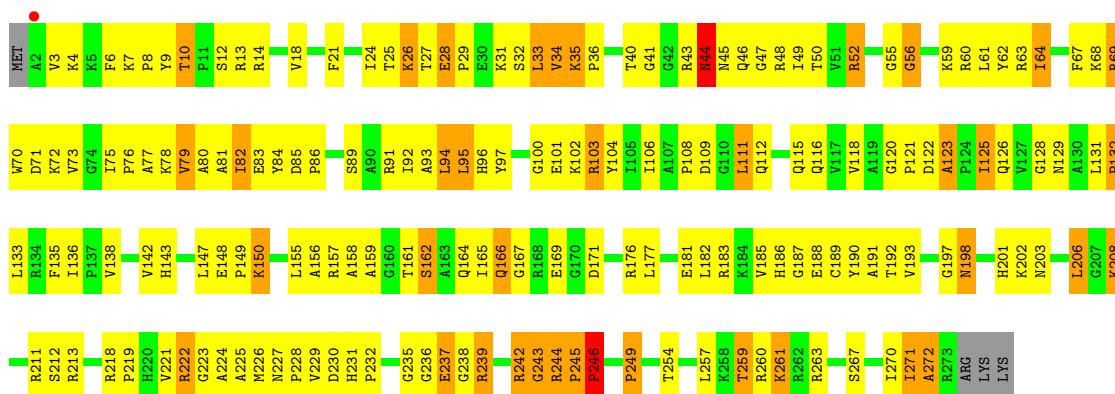
Chain DC:





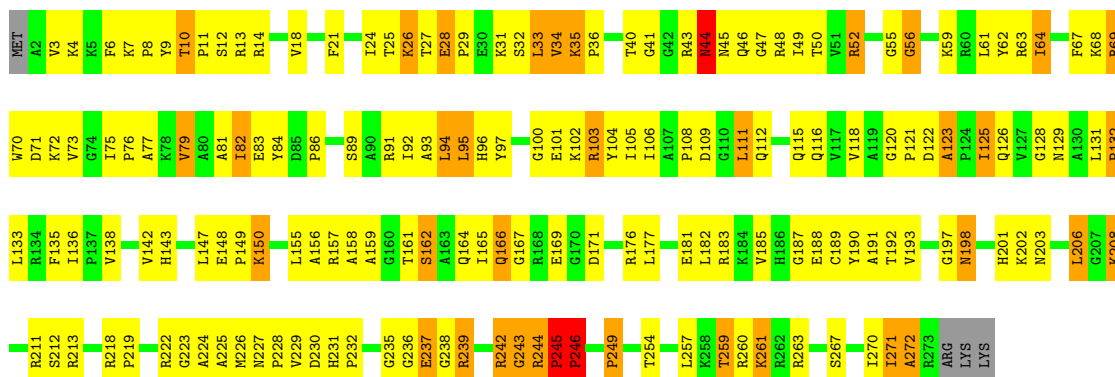
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

Chain BD:



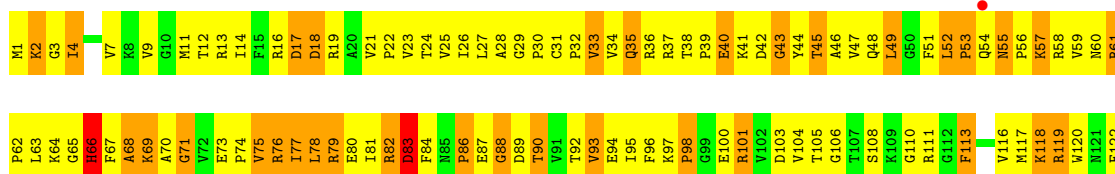
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

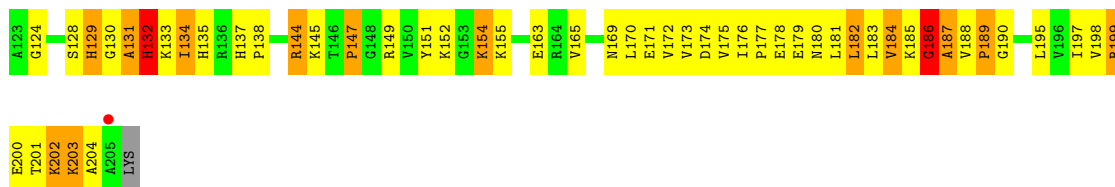
Chain DD:



• Molecule 39: 50S RIBOSOMAL PROTEIN L3

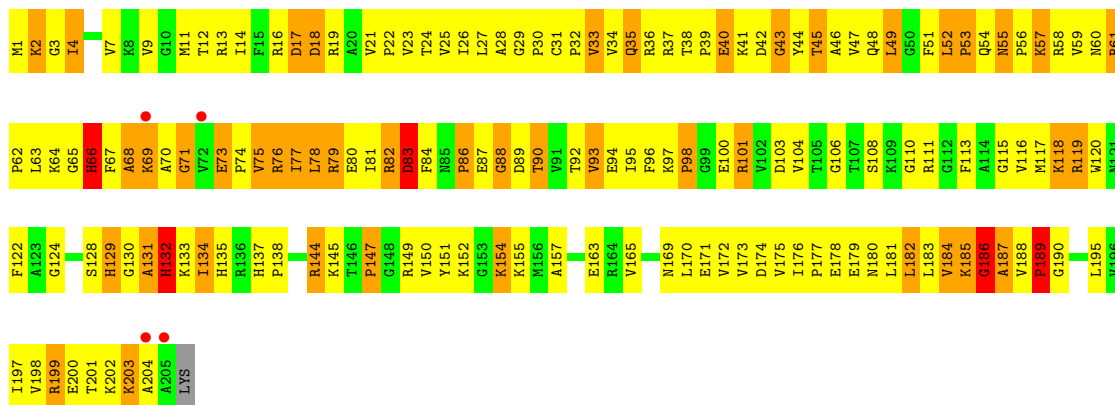
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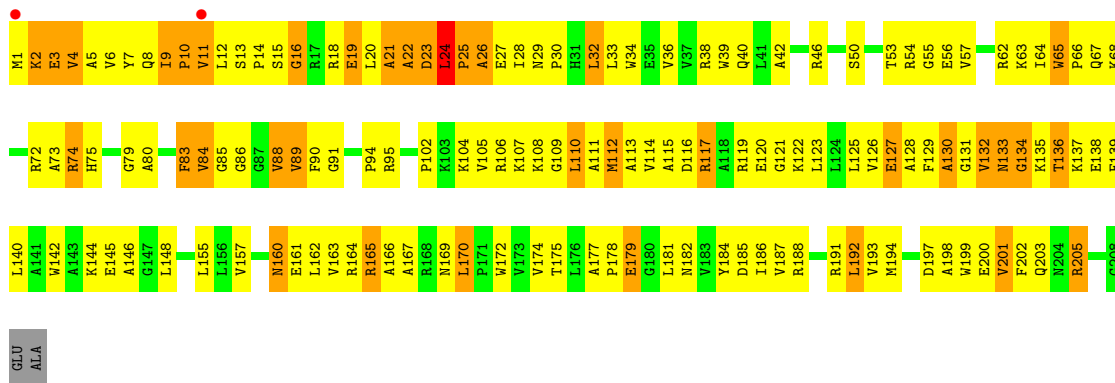
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain DE:



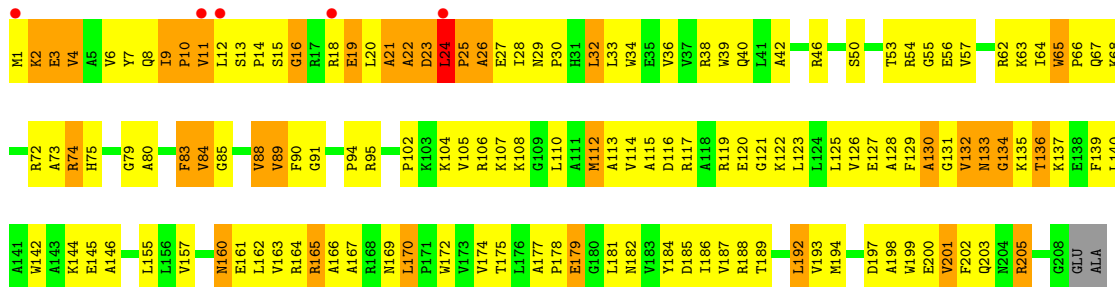
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain BF:



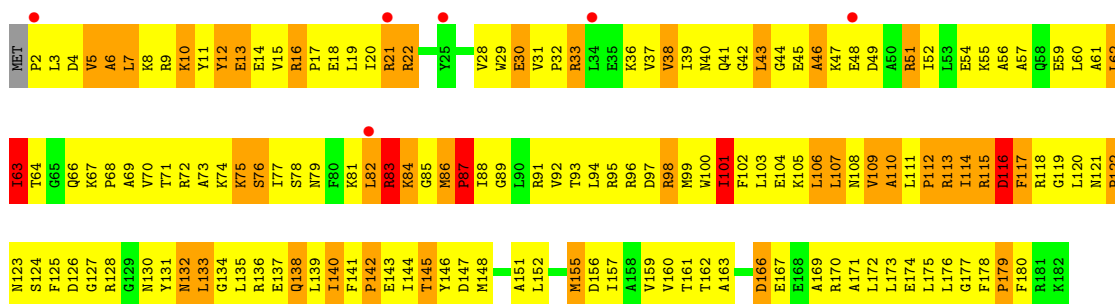
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain DF:



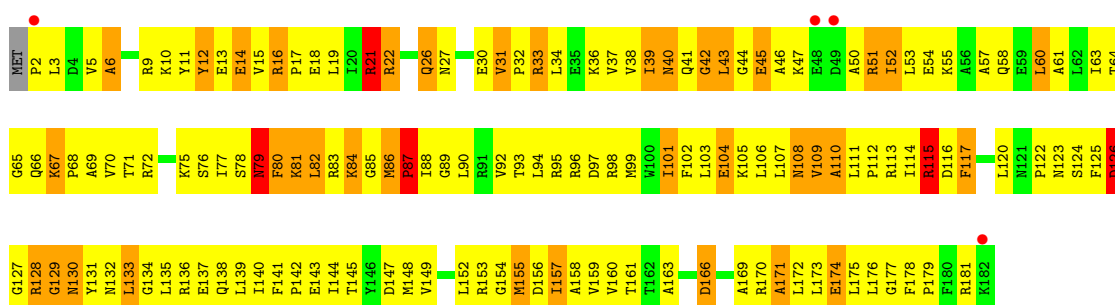
• Molecule 41: 50S RIBOSOMAL PROTEIN L5

Chain BG:



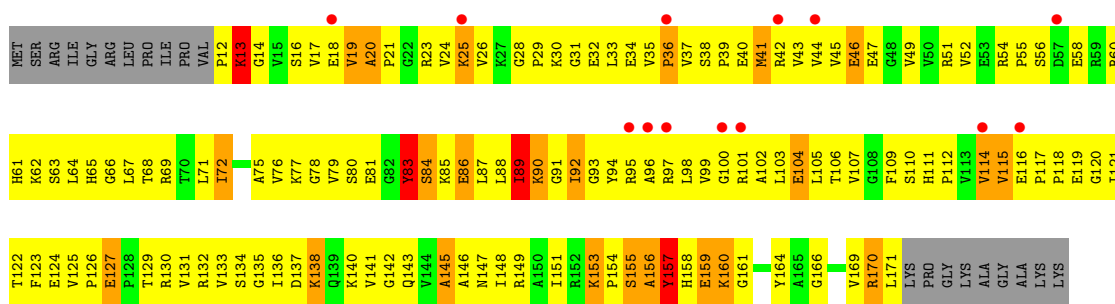
- Molecule 41: 50S RIBOSOMAL PROTEIN L5

Chain DG:



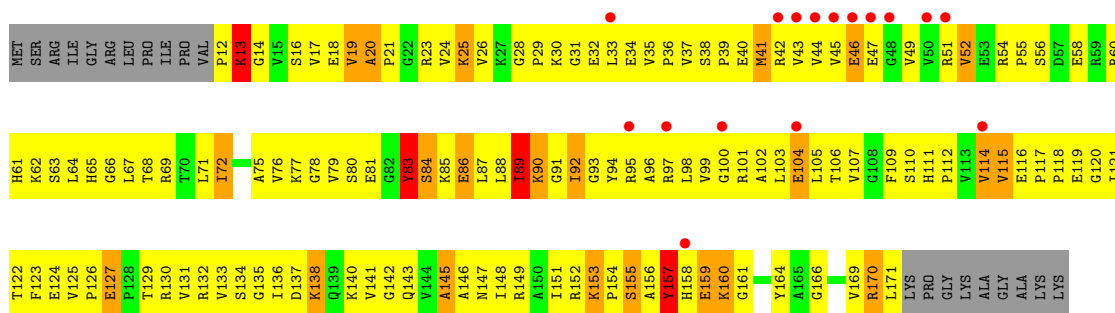
- Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain BH:



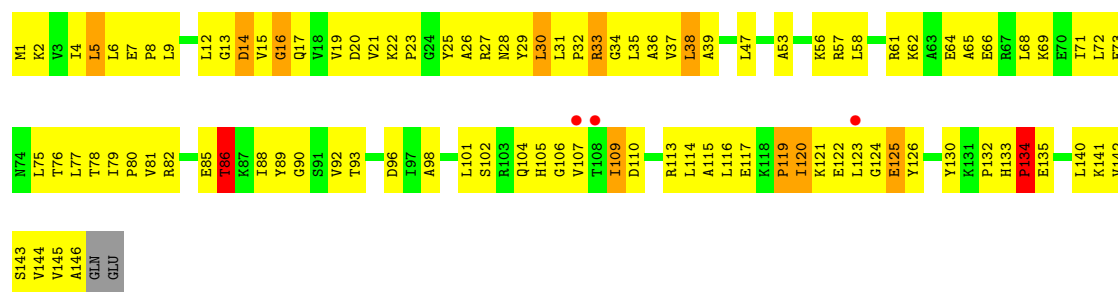
- Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain DH:



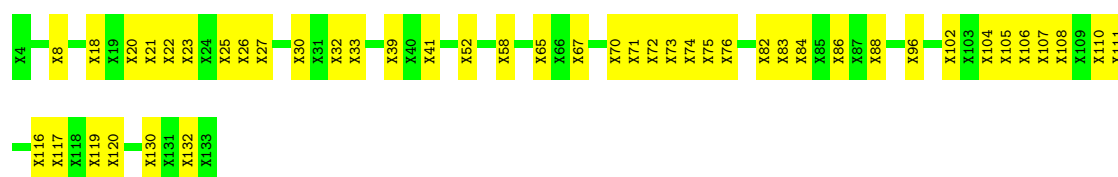
- Molecule 43: 50S RIBOSOMAL PROTEIN L9

Chain BI:



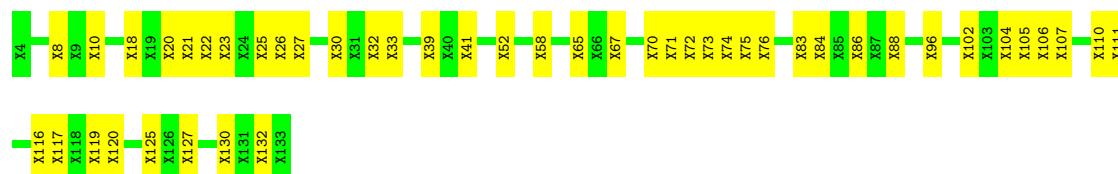
- Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain B.J: 



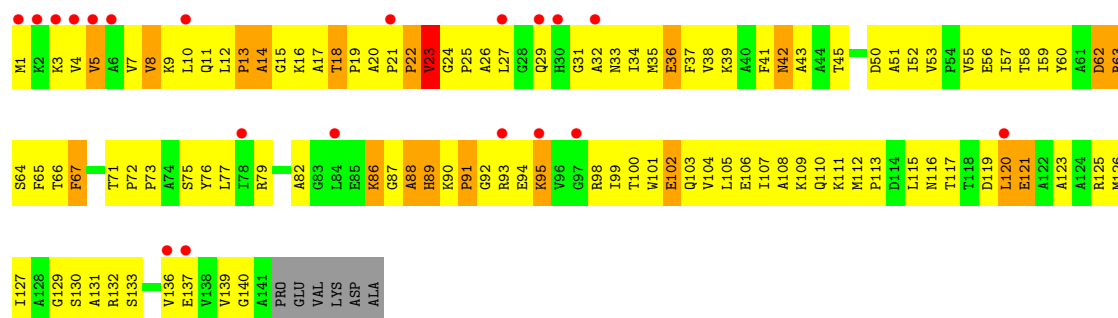
- Molecule 44: 50S RIBOSOMAL PROTEIN L10

Chain DJ: 



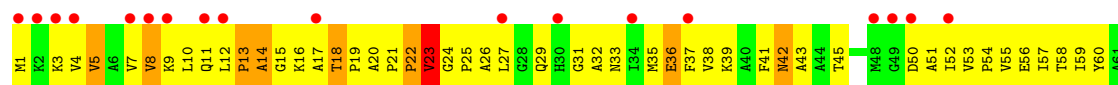
- Molecule 45: 50S RIBOSOMAL PROTEIN L11

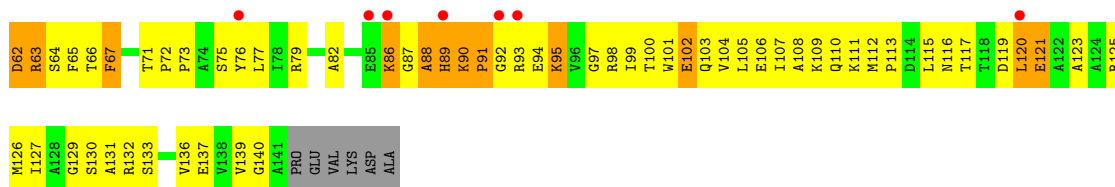
Chain BK: 



- Molecule 45: 50S RIBOSOMAL PROTEIN L11

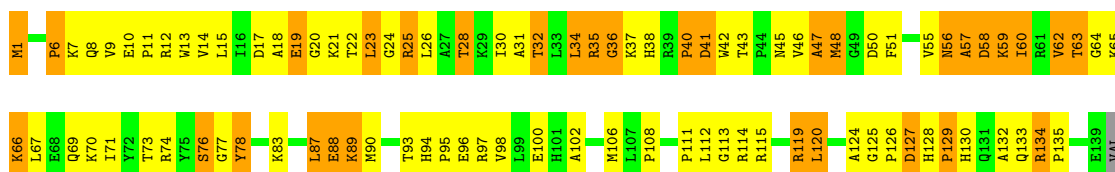
Chain DK:





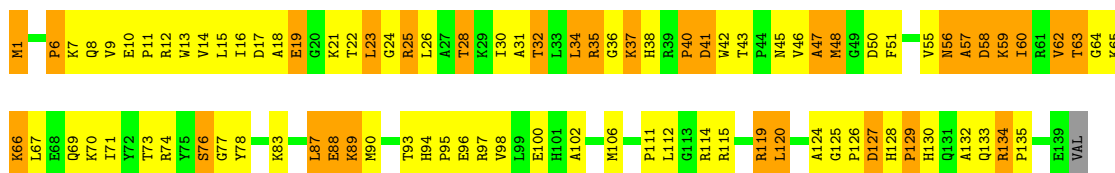
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN:



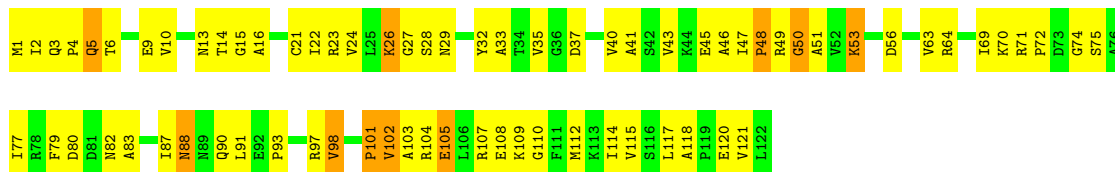
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain DN:



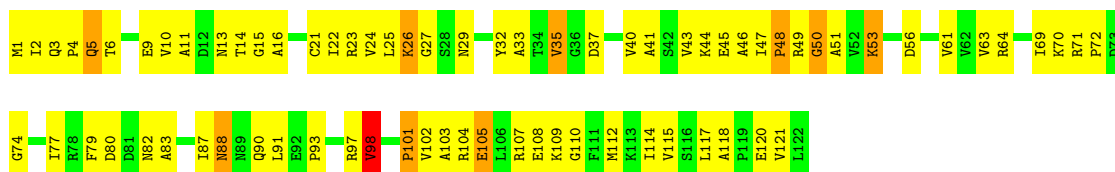
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain BO:



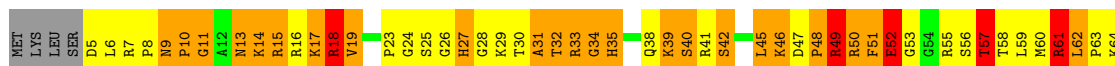
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain DO:



• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain BP:

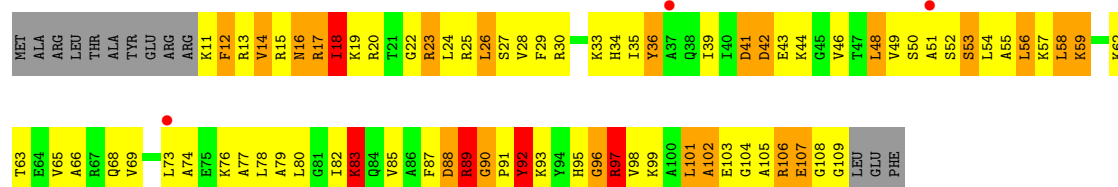






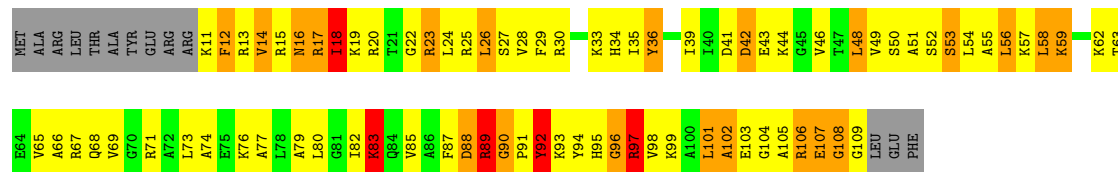
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

Chain BS:



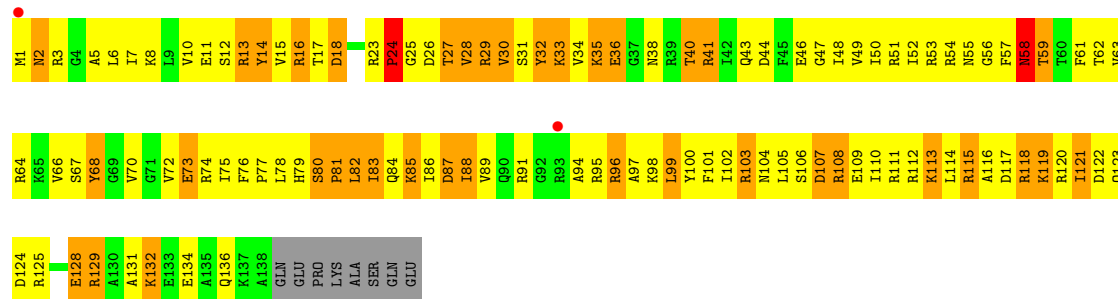
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

Chain DS:



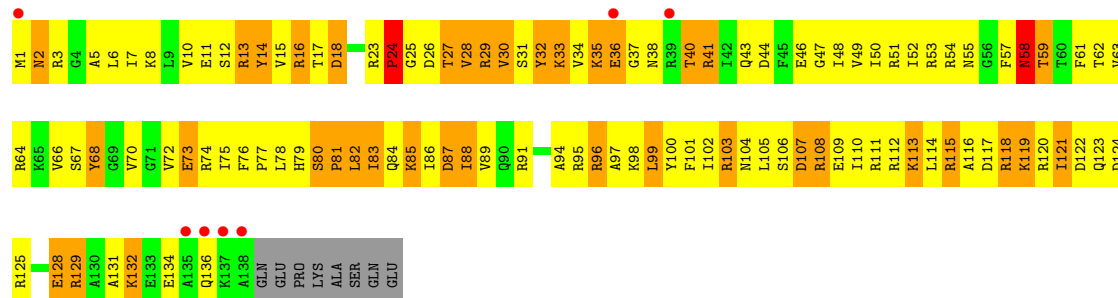
• Molecule 52: 50S RIBOSOMAL PROTEIN L19

Chain BT:



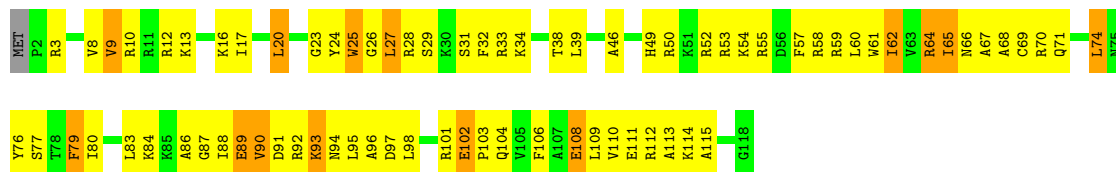
• Molecule 52: 50S RIBOSOMAL PROTEIN L19

Chain DT:



- Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain BU:



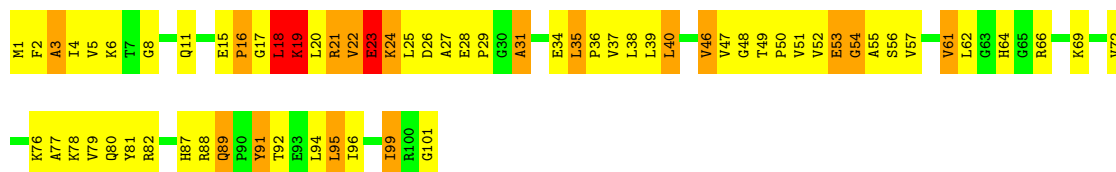
- Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain DU:



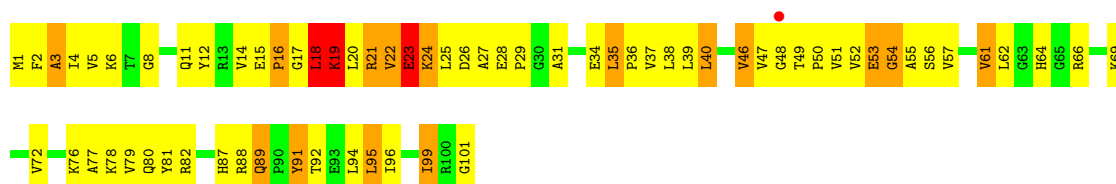
- Molecule 54: 50S RIBOSOMAL PROTEIN L21

Chain BV:



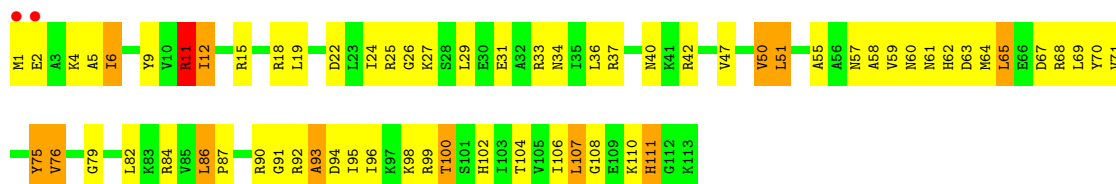
- Molecule 54: 50S RIBOSOMAL PROTEIN L21

Chain DV:



- Molecule 55: 50S RIBOSOMAL PROTEIN L22

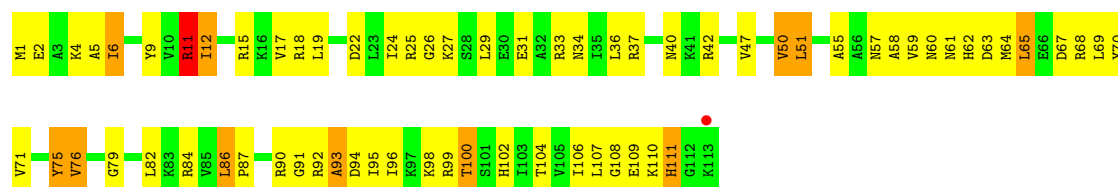
Chain BW:



- Molecule 55: 50S RIBOSOMAL PROTEIN L22

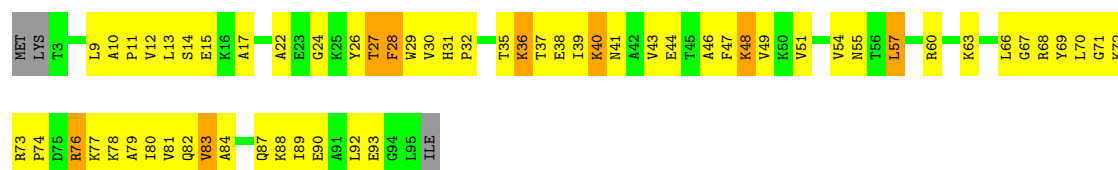
Chain DW:





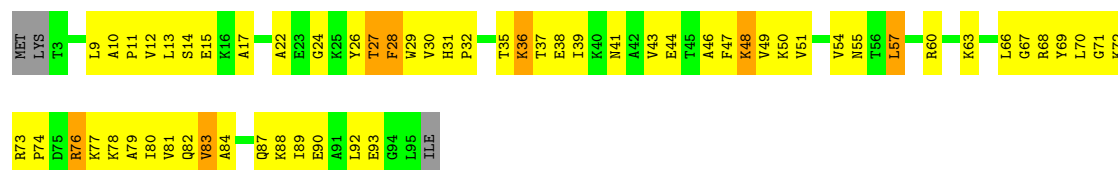
• Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain BX:



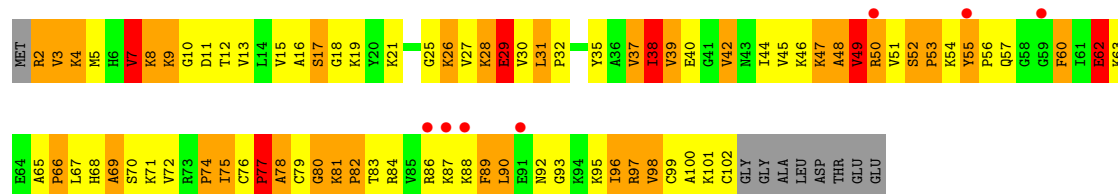
• Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain DX:



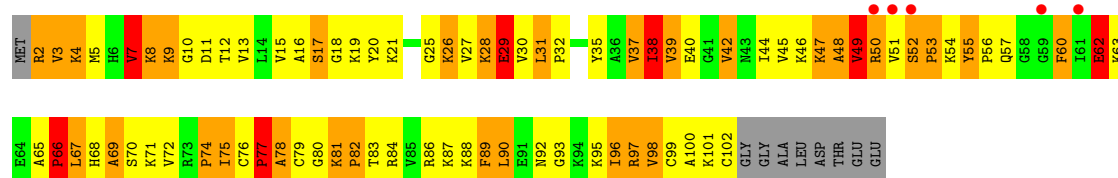
• Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain BY:



• Molecule 57: 50S RIBOSOMAL PROTEIN L24

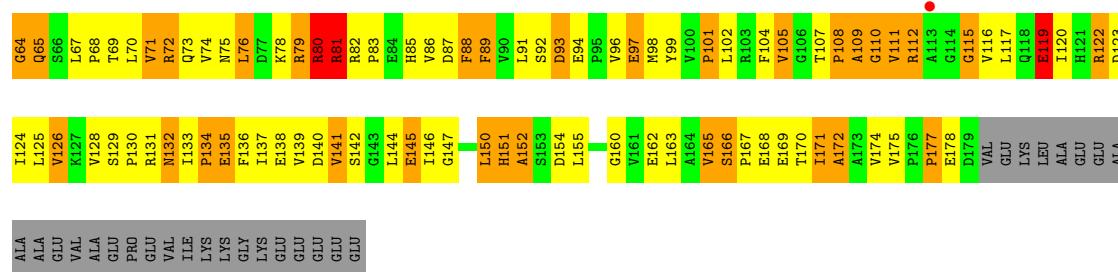
Chain DY:



• Molecule 58: 50S RIBOSOMAL PROTEIN L25

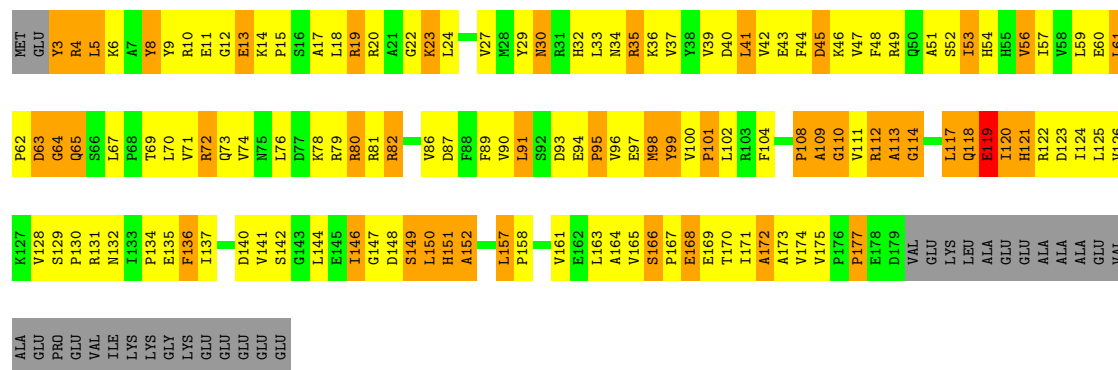
Chain BZ:





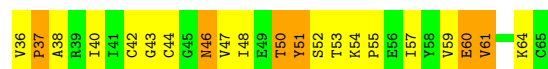
• Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain DZ:



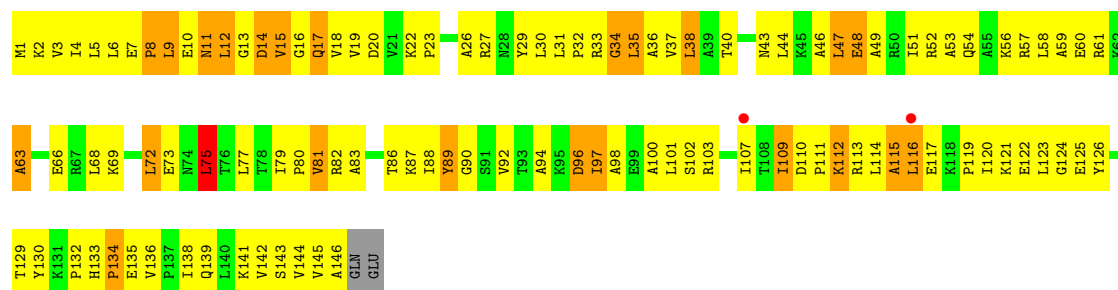
• Molecule 59: 50S RIBOSOMAL PROTEIN L31

Chain D4:



• Molecule 60: 50S RIBOSOMAL PROTEIN L9

Chain DI:



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	211.34Å 450.91Å 614.01Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.57 – 3.45 49.57 – 3.45	Depositor EDS
% Data completeness (in resolution range)	99.6 (49.57-3.45) 99.6 (49.57-3.45)	Depositor EDS
$R_{merge}$	0.21	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.16 (at 3.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, $R_{free}$	0.210 , 0.257 0.211 , 0.257	Depositor DCC
$R_{free}$ test set	33081 reflections (4.55%)	DCC
Wilson B-factor (Å <sup>2</sup> )	76.9	Xtriage
Anisotropy	0.053	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.25 , 44.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.41$ , $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 759980 reflections	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	304505	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	88.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.41% of the height of the origin peak. No significant pseudotranslation is detected.*

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

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

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	0.39	0/36190	0.69	9/56486 (0.0%)
1	CA	0.41	0/36190	0.69	11/56486 (0.0%)
2	AB	0.32	0/1936	0.61	0/2611
2	CB	0.32	0/1936	0.61	0/2611
3	AC	0.32	0/1637	0.57	0/2207
3	CC	0.35	0/1637	0.57	0/2207
4	AD	0.34	0/1733	0.58	0/2318
4	CD	0.36	0/1733	0.59	0/2318
5	AE	0.36	0/1163	0.61	0/1566
5	CE	0.37	0/1163	0.62	0/1566
6	AF	0.29	0/856	0.58	0/1154
6	CF	0.29	0/856	0.58	0/1154
7	AG	0.30	0/1276	0.54	0/1709
7	CG	0.33	0/1276	0.56	0/1709
8	AH	0.32	0/1136	0.62	0/1527
8	CH	0.33	0/1136	0.63	0/1527
9	AI	0.31	0/1029	0.60	0/1378
9	CI	0.33	0/1029	0.61	0/1378
10	AJ	0.33	0/808	0.60	0/1087
10	CJ	0.34	0/808	0.61	0/1087
11	AK	0.32	0/900	0.60	0/1213
11	CK	0.33	0/900	0.60	0/1213
12	AL	0.40	0/992	0.74	0/1329
12	CL	0.40	0/992	0.75	0/1329
13	AM	0.32	0/966	0.65	0/1294
13	CM	0.34	0/966	0.66	0/1294
14	AN	0.35	0/501	0.58	0/664
14	CN	0.38	0/501	0.60	0/664
15	AO	0.31	0/745	0.54	0/992
15	CO	0.32	0/745	0.55	0/992
16	AP	0.37	0/717	0.63	0/965
16	CP	0.37	0/717	0.63	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AQ	0.37	0/837	0.60	0/1119
17	CQ	0.37	0/837	0.60	0/1119
18	AR	0.32	0/579	0.61	0/768
18	CR	0.32	0/579	0.62	0/768
19	AS	0.37	0/643	0.60	0/867
19	CS	0.39	0/643	0.60	0/867
20	AT	0.29	0/765	0.55	0/1007
20	CT	0.29	0/765	0.56	0/1007
21	AU	0.44	0/213	0.53	0/279
21	CU	0.43	0/213	0.54	0/279
22	AV	0.52	0/1809	0.77	1/2819 (0.0%)
22	AW	0.42	0/1809	0.78	5/2819 (0.2%)
22	CV	0.53	0/1809	0.78	2/2819 (0.1%)
22	CW	0.39	0/1809	0.76	4/2819 (0.1%)
23	AX	0.53	0/185	0.79	1/286 (0.3%)
23	CX	0.56	0/185	0.71	0/286
24	AY	0.34	0/2847	0.66	0/3846
24	CY	0.36	0/2847	0.70	1/3846 (0.0%)
25	B0	0.42	0/615	0.72	0/819
25	D0	0.44	0/615	0.73	0/819
26	B1	0.44	0/739	0.79	1/983 (0.1%)
26	D1	0.49	0/739	0.77	0/983
27	B2	0.39	0/600	0.73	0/793
27	D2	0.44	0/600	0.75	1/793 (0.1%)
28	B3	0.44	0/473	0.74	0/636
28	D3	0.45	0/473	0.73	0/636
29	B4	0.38	0/229	0.53	0/311
30	B5	0.46	0/473	0.83	0/639
30	D5	0.45	0/473	0.85	0/639
31	B6	0.62	1/388 (0.3%)	0.97	0/520
31	D6	0.71	1/388 (0.3%)	1.00	0/520
32	B7	0.48	0/427	0.70	0/563
32	D7	0.48	0/427	0.69	0/563
33	B8	0.63	0/516	0.88	0/681
33	D8	0.67	0/516	0.91	0/681
34	B9	0.42	0/302	0.77	1/397 (0.3%)
34	D9	0.45	0/302	0.77	1/397 (0.3%)
35	BA	0.53	1/69614 (0.0%)	0.74	40/108679 (0.0%)
35	DA	0.56	3/69614 (0.0%)	0.75	40/108679 (0.0%)
36	BB	0.50	2/2853 (0.1%)	0.87	4/4451 (0.1%)
36	DB	0.52	1/2853 (0.0%)	0.84	3/4451 (0.1%)
37	BC	0.36	0/1145	0.65	7/1556 (0.4%)
37	DC	0.35	0/1145	0.66	7/1556 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
38	BD	0.45	0/2155	0.68	1/2907 (0.0%)
38	DD	0.47	0/2155	0.68	1/2907 (0.0%)
39	BE	0.43	0/1597	0.76	1/2155 (0.0%)
39	DE	0.44	0/1597	0.76	1/2155 (0.0%)
40	BF	0.48	0/1659	0.77	0/2246
40	DF	0.49	0/1659	0.77	0/2246
41	BG	0.37	0/1499	0.69	0/2016
41	DG	0.41	0/1499	0.76	1/2016 (0.0%)
42	BH	0.36	0/1246	0.69	1/1684 (0.1%)
42	DH	0.37	0/1246	0.69	1/1684 (0.1%)
43	BI	0.31	0/1147	0.60	0/1553
45	BK	0.31	0/1057	0.57	0/1432
45	DK	0.31	0/1057	0.57	0/1432
46	BN	0.38	0/1132	0.69	0/1527
46	DN	0.41	0/1132	0.70	0/1527
47	BO	0.42	0/943	0.71	0/1269
47	DO	0.40	0/943	0.71	0/1269
48	BP	0.41	0/1131	0.78	1/1504 (0.1%)
48	DP	0.44	0/1131	0.78	1/1504 (0.1%)
49	BQ	0.44	0/1143	0.71	0/1527
49	DQ	0.46	0/1143	0.72	0/1527
50	BR	0.36	0/974	0.71	1/1302 (0.1%)
50	DR	0.37	0/974	0.72	1/1302 (0.1%)
51	BS	0.45	0/779	0.85	1/1038 (0.1%)
51	DS	0.56	0/779	0.89	1/1038 (0.1%)
52	BT	0.40	0/1156	0.74	0/1544
52	DT	0.41	0/1156	0.75	0/1544
53	BU	0.47	0/975	0.77	1/1297 (0.1%)
53	DU	0.47	0/975	0.80	1/1297 (0.1%)
54	BV	0.42	0/790	0.73	0/1057
54	DV	0.46	0/790	0.76	0/1057
55	BW	0.39	0/907	0.67	0/1216
55	DW	0.41	0/907	0.69	0/1216
56	BX	0.43	0/740	0.71	0/995
56	DX	0.44	0/740	0.72	0/995
57	BY	0.50	0/789	0.80	0/1053
57	DY	0.49	0/789	0.81	0/1053
58	BZ	0.41	0/1436	0.72	0/1951
58	DZ	0.41	0/1436	0.77	0/1951
59	D4	0.32	0/229	0.53	0/309
60	DI	0.36	0/1148	0.73	0/1554
All	All	0.47	9/327803 (0.0%)	0.72	154/489221 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	9
1	CA	0	10
22	AW	3	0
22	CV	0	2
22	CW	3	0
23	AX	0	1
30	B5	0	1
30	D5	0	2
35	BA	2	40
35	DA	3	46
All	All	11	111

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	DB	86	G	P-OP1	-7.68	1.35	1.49
35	BA	568	U	C4-O4	7.25	1.29	1.23
36	BB	86	G	P-OP1	-7.23	1.36	1.49
36	BB	96	U	C2-O2	-6.42	1.16	1.22
31	D6	42	TRP	CB-CG	6.09	1.61	1.50
35	DA	568	U	C4-O4	5.32	1.27	1.23
31	B6	42	TRP	CB-CG	5.27	1.59	1.50
35	DA	676	A	C5-C6	-5.13	1.36	1.41
35	DA	2430	A	C5-C6	-5.05	1.36	1.41

All (154) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BB	85	G	OP1-P-O3'	-22.67	55.33	105.20
36	DB	85	G	OP1-P-O3'	-19.05	63.30	105.20
36	BB	85	G	OP2-P-O3'	13.54	134.99	105.20
36	DB	85	G	OP2-P-O3'	12.71	133.15	105.20
36	DB	86	G	O5'-P-OP1	11.85	124.92	110.70
35	BA	1992	G	C2'-C3'-O3'	10.72	133.09	109.50
35	DA	1992	G	C2'-C3'-O3'	10.20	131.94	109.50
22	AW	17	C	N1-C1'-C2'	10.03	127.04	114.00
35	BA	1786	A	N9-C1'-C2'	9.85	126.80	114.00
35	DA	1786	A	N9-C1'-C2'	9.82	126.77	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1784	A	C2'-C3'-O3'	9.64	130.71	109.50
35	DA	1799	G	C2'-C3'-O3'	9.64	130.71	109.50
35	DA	1784	A	C2'-C3'-O3'	9.40	130.18	109.50
35	BA	1799	G	C2'-C3'-O3'	9.03	129.37	109.50
22	CW	17	C	N1-C1'-C2'	8.64	125.24	114.00
22	AW	47	U	N1-C1'-C2'	8.55	125.12	114.00
36	BB	86	G	O5'-P-OP1	8.26	120.62	110.70
35	DA	1819	A	C2'-C3'-O3'	8.18	127.50	109.50
35	DA	507	A	N9-C1'-C2'	-8.16	103.03	112.00
35	BA	1819	A	C2'-C3'-O3'	8.15	127.44	109.50
35	DA	1653	G	C2'-C3'-O3'	7.72	126.48	109.50
35	BA	1653	G	C2'-C3'-O3'	7.71	126.47	109.50
22	CV	1	G	O5'-C5'-C4'	7.63	126.21	111.70
35	BA	507	A	N9-C1'-C2'	-7.56	103.69	112.00
22	CW	70	G	C2'-C3'-O3'	7.50	126.01	109.50
35	DA	603	A	C2'-C3'-O3'	7.40	125.78	109.50
35	DA	2286	A	N9-C1'-C2'	7.39	123.61	114.00
22	CW	47	U	N1-C1'-C2'	7.38	123.60	114.00
51	DS	16	ASN	N-CA-C	-7.25	91.42	111.00
36	BB	85	G	C2'-C3'-O3'	7.15	125.23	109.50
51	BS	16	ASN	N-CA-C	-7.11	91.80	111.00
35	BA	2286	A	N9-C1'-C2'	7.00	123.10	114.00
22	AW	70	G	C2'-C3'-O3'	6.96	124.83	113.70
35	BA	603	A	C2'-C3'-O3'	6.89	124.72	113.70
26	B1	46	LEU	CA-CB-CG	6.81	130.96	115.30
50	DR	8	ARG	N-CA-C	6.67	129.01	111.00
35	BA	1126	A	N9-C1'-C2'	6.66	122.65	114.00
35	BA	1782	C	N1-C1'-C2'	-6.63	104.70	112.00
1	CA	1502	A	N9-C1'-C2'	6.59	122.56	114.00
50	BR	8	ARG	N-CA-C	6.58	128.76	111.00
37	DC	133	PRO	N-CA-CB	6.54	111.14	103.30
53	BU	97	ASP	N-CA-C	-6.53	93.37	111.00
1	AA	1067	A	C2'-C3'-O3'	6.45	124.02	113.70
1	AA	1502	A	N9-C1'-C2'	6.44	122.38	114.00
53	DU	97	ASP	N-CA-C	-6.44	93.61	111.00
35	DA	1126	A	N9-C1'-C2'	6.42	122.35	114.00
35	DA	1781	C	N1-C1'-C2'	6.39	122.31	114.00
1	CA	110	C	N1-C1'-C2'	-6.38	104.98	112.00
35	DA	1782	C	N1-C1'-C2'	-6.33	105.04	112.00
35	DA	856	C	C2'-C3'-O3'	6.32	123.81	113.70
48	BP	53	GLY	N-CA-C	-6.27	97.42	113.10
48	DP	53	GLY	N-CA-C	-6.22	97.55	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BC	133	PRO	N-CA-CB	6.21	110.76	103.30
1	CA	1067	A	C2'-C3'-O3'	6.21	123.64	113.70
1	AA	1504	G	C2'-C3'-O3'	6.21	123.63	113.70
35	BA	2285	C	C5'-C4'-C3'	-6.18	106.11	116.00
37	BC	220	PRO	N-CA-CB	6.10	110.62	103.30
22	AW	17	C	O4'-C1'-N1	6.09	113.07	108.20
35	DA	2285	C	C5'-C4'-C3'	-6.08	106.27	116.00
35	DA	1912	A	C2'-C3'-O3'	6.07	123.42	113.70
1	CA	1504	G	C2'-C3'-O3'	6.05	123.39	113.70
35	BA	2481	G	N9-C1'-C2'	6.04	121.86	114.00
35	BA	955	C	C5'-C4'-C3'	-6.01	106.39	116.00
35	DA	2278	A	C5'-C4'-C3'	6.01	125.61	116.00
1	CA	328	C	N1-C1'-C2'	6.01	121.81	114.00
35	BA	1781	C	N1-C1'-C2'	6.00	121.80	114.00
37	DC	220	PRO	N-CA-CB	6.00	110.50	103.30
35	BA	2278	A	C5'-C4'-C3'	5.98	125.57	116.00
35	DA	2481	G	N9-C1'-C2'	5.98	121.77	114.00
35	DA	955	C	C5'-C4'-C3'	-5.97	106.44	116.00
1	AA	328	C	N1-C1'-C2'	5.95	121.73	114.00
1	AA	110	C	N1-C1'-C2'	-5.94	105.47	112.00
35	BA	2447	G	N9-C1'-C2'	5.92	121.70	114.00
27	D2	61	LEU	CA-CB-CG	5.91	128.89	115.30
22	CW	47	U	O4'-C1'-N1	5.89	112.91	108.20
35	DA	2447	G	N9-C1'-C2'	5.88	121.64	114.00
35	DA	193	U	C5'-C4'-C3'	-5.86	106.63	116.00
35	BA	1204	A	N9-C1'-C2'	5.83	121.58	114.00
37	DC	140	PRO	N-CA-CB	5.82	110.29	103.30
35	BA	856	C	C2'-C3'-O3'	5.82	123.01	113.70
35	DA	826	U	C5'-C4'-C3'	-5.80	106.71	116.00
37	BC	201	PRO	N-CA-CB	5.80	110.25	103.30
1	CA	966	G	N9-C1'-C2'	-5.79	105.63	112.00
22	AW	47	U	O4'-C1'-N1	5.75	112.80	108.20
35	DA	1495	A	N9-C1'-C2'	5.74	121.46	114.00
37	DC	201	PRO	N-CA-CB	5.73	110.18	103.30
35	BA	826	U	C5'-C4'-C3'	-5.72	106.85	116.00
35	DA	1204	A	N9-C1'-C2'	5.70	121.41	114.00
37	DC	174	PRO	N-CA-CB	5.70	110.14	103.30
35	BA	494	G	C5'-C4'-O4'	-5.68	102.28	109.10
1	AA	966	G	N9-C1'-C2'	-5.68	105.75	112.00
37	DC	182	PRO	N-CA-CB	5.68	110.11	103.30
37	BC	182	PRO	N-CA-CB	5.67	110.11	103.30
35	BA	1159	U	C5'-C4'-C3'	-5.66	106.94	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AX	19	U	N1-C1'-C2'	-5.64	105.79	112.00
35	BA	784	A	N9-C1'-C2'	5.64	121.33	114.00
35	DA	784	A	N9-C1'-C2'	5.63	121.31	114.00
37	BC	140	PRO	N-CA-CB	5.62	110.05	103.30
42	BH	157	TYR	N-CA-C	-5.58	95.92	111.00
35	BA	1495	A	N9-C1'-C2'	5.58	121.25	114.00
37	BC	174	PRO	N-CA-CB	5.58	110.00	103.30
35	DA	1616	A	O4'-C1'-N9	5.56	112.65	108.20
35	DA	1427	A	N9-C1'-C2'	5.54	121.21	114.00
35	DA	2346	A	N9-C1'-C2'	5.52	121.17	114.00
35	BA	193	U	C5'-C4'-C3'	-5.50	107.20	116.00
42	DH	157	TYR	N-CA-C	-5.50	96.14	111.00
34	D9	12	ASP	N-CA-C	-5.48	96.20	111.00
37	BC	181	PRO	N-CA-CB	5.47	109.87	103.30
35	DA	27	G	C5'-C4'-O4'	-5.46	102.55	109.10
24	CY	189	LEU	CA-CB-CG	5.45	127.84	115.30
35	BA	1427	A	N9-C1'-C2'	5.44	121.07	114.00
39	DE	186	GLY	N-CA-C	5.42	126.64	113.10
1	AA	760	G	N9-C1'-C2'	-5.38	106.08	112.00
34	B9	12	ASP	N-CA-C	-5.37	96.49	111.00
1	CA	760	G	N9-C1'-C2'	-5.37	106.09	112.00
35	DA	1992	G	C4'-C3'-C2'	5.37	107.97	102.60
39	BE	186	GLY	N-CA-C	5.37	126.53	113.10
35	BA	1912	A	C2'-C3'-O3'	5.36	122.27	113.70
35	BA	945	A	C2'-C3'-O3'	5.34	122.25	113.70
1	CA	687	A	C2'-C3'-O3'	5.32	122.21	113.70
35	DA	1159	U	C5'-C4'-C3'	-5.30	107.52	116.00
35	BA	2346	A	N9-C1'-C2'	5.29	120.88	114.00
35	DA	964	C	C5'-C4'-C3'	-5.26	107.58	116.00
38	DD	46	GLN	N-CA-C	-5.25	96.82	111.00
37	DC	181	PRO	N-CA-CB	5.25	109.60	103.30
22	AV	1	G	O5'-C5'-C4'	5.22	121.62	111.70
35	BA	659	C	C5'-C4'-C3'	-5.22	107.65	116.00
1	CA	934	C	N1-C1'-C2'	5.21	120.77	114.00
35	BA	1686	C	C5'-C4'-O4'	-5.19	102.87	109.10
35	BA	2655	G	N9-C1'-C2'	5.19	120.75	114.00
35	BA	1698	A	N9-C1'-C2'	5.19	120.75	114.00
35	BA	1992	G	C4'-C3'-C2'	5.17	107.77	102.60
38	BD	46	GLN	N-CA-C	-5.17	97.05	111.00
1	AA	687	A	C2'-C3'-O3'	5.16	121.95	113.70
22	CV	29	G	N9-C1'-C2'	-5.16	106.33	112.00
35	DA	1286	A	C1'-O4'-C4'	-5.16	105.78	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1616	A	O4'-C1'-N9	5.15	112.32	108.20
35	DA	587	C	OP2-P-O3'	5.13	116.49	105.20
35	DA	1698	A	N9-C1'-C2'	5.13	120.66	114.00
35	DA	2346	A	O4'-C1'-N9	5.12	112.30	108.20
35	DA	1497	U	N1-C1'-C2'	5.12	120.66	114.00
35	BA	1286	A	C1'-O4'-C4'	-5.11	105.81	109.90
1	CA	1201	A	C2'-C3'-O3'	5.10	121.86	113.70
35	BA	1819	A	C4'-C3'-O3'	5.10	123.19	113.00
35	BA	1616	A	N9-C1'-C2'	5.09	120.61	114.00
41	DG	129	GLY	N-CA-C	-5.08	100.40	113.10
35	BA	1223	G	C5'-C4'-C3'	-5.05	107.91	116.00
35	BA	310	A	C5'-C4'-C3'	-5.04	107.94	116.00
35	DA	494	G	C5'-C4'-O4'	-5.04	103.05	109.10
35	DA	1819	A	C4'-C3'-O3'	5.04	123.08	113.00
35	DA	1365	A	C5'-C4'-C3'	5.02	124.04	116.00
35	DA	654(J)	A	C5'-C4'-O4'	5.01	115.12	109.10
1	AA	934	C	N1-C1'-C2'	5.01	120.51	114.00
1	CA	1065	U	C2'-C3'-O3'	5.01	121.71	113.70

All (11) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	AW	17	C	C1'
22	AW	47	U	C1'
22	AW	70	G	C3'
35	BA	1784	A	C3'
35	BA	1799	G	C3'
22	CW	17	C	C1'
22	CW	47	U	C1'
22	CW	70	G	C3'
35	DA	1784	A	C3'
35	DA	1799	G	C3'
35	DA	1819	A	C3'

All (111) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1077	G	Sidechain
1	AA	110	C	Sidechain
1	AA	1281	U	Sidechain
1	AA	324	G	Sidechain
1	AA	38	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	388	G	Sidechain
1	AA	498	U	Sidechain
1	AA	760	G	Sidechain
1	AA	966	G	Sidechain
23	AX	19	U	Sidechain
30	B5	51	TYR	Sidechain
35	BA	102	G	Sidechain
35	BA	1126	A	Sidechain
35	BA	1156	A	Sidechain
35	BA	1215	G	Sidechain
35	BA	1225	G	Sidechain
35	BA	1286	A	Sidechain
35	BA	1379	A	Sidechain
35	BA	1385	G	Sidechain
35	BA	141	A	Sidechain
35	BA	15	G	Sidechain
35	BA	171	G	Sidechain
35	BA	1772	G	Sidechain
35	BA	1779	U	Sidechain
35	BA	1782	C	Sidechain
35	BA	2009	G	Sidechain
35	BA	2020	A	Sidechain
35	BA	2267	A	Sidechain
35	BA	2401	U	Sidechain
35	BA	2437	U	Sidechain
35	BA	2468	G	Sidechain
35	BA	2481	G	Sidechain
35	BA	257	A	Sidechain
35	BA	2595	G	Sidechain
35	BA	2597	G	Sidechain
35	BA	283	A	Sidechain
35	BA	383	U	Sidechain
35	BA	395	U	Sidechain
35	BA	472	A	Sidechain
35	BA	507	A	Sidechain
35	BA	528	A	Sidechain
35	BA	603	A	Sidechain
35	BA	607	U	Sidechain
35	BA	652	C	Sidechain
35	BA	673	C	Sidechain
35	BA	70	G	Sidechain
35	BA	700	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	743	G	Sidechain
35	BA	800	A	Sidechain
35	BA	856	C	Sidechain
35	BA	859	G	Sidechain
1	CA	1077	G	Sidechain
1	CA	1281	U	Sidechain
1	CA	1301	U	Sidechain
1	CA	1409	C	Sidechain
1	CA	1493	A	Sidechain
1	CA	1519	A	Sidechain
1	CA	498	U	Sidechain
1	CA	760	G	Sidechain
1	CA	961	U	Sidechain
1	CA	966	G	Sidechain
22	CV	29	G	Sidechain
22	CV	8	U	Sidechain
30	D5	51	TYR	Sidechain
30	D5	52	TYR	Sidechain
35	DA	102	G	Sidechain
35	DA	1126	A	Sidechain
35	DA	1215	G	Sidechain
35	DA	1225	G	Sidechain
35	DA	1286	A	Sidechain
35	DA	1385	G	Sidechain
35	DA	141	A	Sidechain
35	DA	15	G	Sidechain
35	DA	1613	G	Sidechain
35	DA	171	G	Sidechain
35	DA	1772	G	Sidechain
35	DA	1779	U	Sidechain
35	DA	1782	C	Sidechain
35	DA	1911	U	Sidechain
35	DA	1940	U	Sidechain
35	DA	2009	G	Sidechain
35	DA	2020	A	Sidechain
35	DA	2070	G	Sidechain
35	DA	2267	A	Sidechain
35	DA	2336	A	Sidechain
35	DA	2393	A	Sidechain
35	DA	2401	U	Sidechain
35	DA	2437	U	Sidechain
35	DA	2481	G	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	2508	G	Sidechain
35	DA	257	A	Sidechain
35	DA	2595	G	Sidechain
35	DA	2597	G	Sidechain
35	DA	2603	G	Sidechain
35	DA	2720	U	Sidechain
35	DA	371	A	Sidechain
35	DA	383	U	Sidechain
35	DA	463	G	Sidechain
35	DA	507	A	Sidechain
35	DA	528	A	Sidechain
35	DA	562	U	Sidechain
35	DA	607	U	Sidechain
35	DA	652	C	Sidechain
35	DA	673	C	Sidechain
35	DA	70	G	Sidechain
35	DA	700	G	Sidechain
35	DA	743	G	Sidechain
35	DA	800	A	Sidechain
35	DA	856	C	Sidechain
35	DA	859	G	Sidechain
35	DA	89	G	Sidechain

## 5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1300	0
1	CA	32329	0	16318	1291	0
2	AB	1901	0	1951	253	0
2	CB	1901	0	1951	256	0
3	AC	1613	0	1677	193	0
3	CC	1613	0	1677	190	0
4	AD	1703	0	1763	215	0
4	CD	1703	0	1763	213	0
5	AE	1147	0	1207	140	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	CE	1147	0	1207	134	0
6	AF	843	0	857	93	0
6	CF	843	0	857	98	0
7	AG	1257	0	1296	112	0
7	CG	1257	0	1296	112	0
8	AH	1116	0	1177	160	0
8	CH	1116	0	1177	152	0
9	AI	1011	0	1043	164	0
9	CI	1011	0	1043	172	0
10	AJ	795	0	840	170	0
10	CJ	795	0	840	165	0
11	AK	885	0	904	101	0
11	CK	885	0	904	104	0
12	AL	976	0	1062	99	0
12	CL	976	0	1062	93	0
13	AM	956	0	1021	104	0
13	CM	956	0	1021	106	0
14	AN	492	0	529	59	0
14	CN	492	0	529	57	0
15	AO	734	0	771	52	0
15	CO	734	0	771	48	0
16	AP	701	0	720	100	0
16	CP	701	0	720	106	0
17	AQ	824	0	891	69	0
17	CQ	824	0	891	70	0
18	AR	574	0	644	78	0
18	CR	574	0	644	78	0
19	AS	630	0	652	97	0
19	CS	630	0	652	97	0
20	AT	763	0	861	112	0
20	CT	763	0	861	110	0
21	AU	209	0	221	18	0
21	CU	209	0	221	18	0
22	AV	1619	0	822	76	0
22	AW	1619	0	822	98	0
22	CV	1619	0	822	83	0
22	CW	1619	0	822	92	0
23	AX	166	0	87	17	0
23	CX	166	0	87	7	0
24	AY	2799	0	2809	362	0
24	CY	2799	0	2809	344	0
25	B0	607	0	628	82	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	D0	607	0	628	82	0
26	B1	732	0	808	113	0
26	D1	732	0	808	108	0
27	B2	598	0	653	85	0
27	D2	598	0	653	78	0
28	B3	468	0	523	59	3
28	D3	468	0	523	60	0
29	B4	226	0	229	33	0
30	B5	459	0	480	64	0
30	D5	459	0	480	72	0
31	B6	381	0	391	117	0
31	D6	381	0	391	123	0
32	B7	419	0	467	25	0
32	D7	419	0	467	29	0
33	B8	508	0	576	122	0
33	D8	508	0	576	130	0
34	B9	299	0	324	33	0
34	D9	299	0	324	31	0
35	BA	62154	0	31337	2154	0
35	DA	62154	0	31337	2170	9
36	BB	2551	0	1295	103	6
36	DB	2551	0	1295	103	0
37	BC	1142	0	865	110	0
37	DC	1142	0	865	103	0
38	BD	2105	0	2182	255	0
38	DD	2105	0	2182	246	0
39	BE	1564	0	1629	245	0
39	DE	1564	0	1629	252	0
40	BF	1624	0	1677	227	0
40	DF	1624	0	1677	226	0
41	BG	1474	0	1535	288	0
41	DG	1474	0	1535	249	0
42	BH	1223	0	1282	214	0
42	DH	1223	0	1282	212	0
43	BI	1132	0	1218	120	0
44	BJ	651	0	146	35	0
44	DJ	651	0	146	36	0
45	BK	1038	0	1089	157	0
45	DK	1038	0	1089	184	0
46	BN	1105	0	1180	129	0
46	DN	1105	0	1180	122	0
47	BO	933	0	996	92	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	DO	933	0	996	94	0
48	BP	1114	0	1187	261	0
48	DP	1114	0	1187	259	0
49	BQ	1122	0	1179	121	0
49	DQ	1122	0	1179	123	0
50	BR	960	0	1021	134	0
50	DR	960	0	1020	134	0
51	BS	771	0	832	147	0
51	DS	771	0	832	149	0
52	BT	1142	0	1202	231	0
52	DT	1142	0	1202	231	0
53	BU	958	0	1015	134	0
53	DU	958	0	1015	139	0
54	BV	779	0	852	144	0
54	DV	779	0	852	149	0
55	BW	896	0	953	76	0
55	DW	896	0	953	77	0
56	BX	726	0	778	67	0
56	DX	726	0	778	65	0
57	BY	776	0	870	181	0
57	DY	776	0	870	182	0
58	BZ	1404	0	1432	232	0
58	DZ	1404	0	1432	245	0
59	D4	226	0	229	36	0
60	DI	1133	0	1220	185	0
61	AA	157	0	0	0	0
61	AE	1	0	0	0	0
61	AL	1	0	0	0	0
61	AM	1	0	0	0	0
61	AV	7	0	0	0	0
61	AW	5	0	0	0	0
61	AY	1	0	0	0	0
61	B1	1	0	0	0	0
61	B3	1	0	0	0	0
61	B5	2	0	0	0	0
61	B7	2	0	0	0	0
61	BA	354	0	0	0	0
61	BB	4	0	0	0	0
61	BC	1	0	0	0	0
61	BD	2	0	0	0	0
61	BF	1	0	0	0	0
61	BH	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	BP	1	0	0	0	0
61	BQ	1	0	0	0	0
61	BS	1	0	0	0	0
61	BU	1	0	0	0	0
61	CA	157	0	0	0	0
61	CL	1	0	0	0	0
61	CN	1	0	0	0	0
61	CV	7	0	0	0	0
61	CW	5	0	0	0	0
61	CY	1	0	0	0	0
61	D1	1	0	0	0	0
61	D3	1	0	0	0	0
61	D5	2	0	0	0	0
61	D7	1	0	0	0	0
61	DA	353	0	0	0	0
61	DB	4	0	0	0	0
61	DC	1	0	0	0	0
61	DD	2	0	0	0	0
61	DF	3	0	0	0	0
61	DH	1	0	0	0	0
61	DQ	1	0	0	0	0
61	DR	1	0	0	0	0
61	DU	1	0	0	0	0
61	DX	1	0	0	0	0
61	DY	1	0	0	0	0
62	AD	1	0	0	0	0
62	AN	1	0	0	0	0
62	B9	1	0	0	0	0
62	CD	1	0	0	0	0
62	CN	1	0	0	0	0
62	D9	1	0	0	0	0
All	All	304505	0	207553	19772	9

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 39.

All (19772) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D1:81:LYS:CE	35:DA:271(H):G:H5'	1.21	1.60
26:B1:81:LYS:HE2	35:BA:271(H):G:C5'	1.23	1.59
26:D1:81:LYS:HE2	35:DA:271(H):G:C5'	1.31	1.54
26:B1:81:LYS:CE	35:BA:271(H):G:H5'	1.10	1.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	1.57	1.18
35:BA:1887:C:H2'	35:BA:1888:G:H5''	1.22	1.18
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	1.58	1.18
57:DY:81:LYS:HD3	57:DY:97:ARG:HB3	1.27	1.17
33:D8:52:LYS:H	33:D8:53:PRO:HD2	1.08	1.17
57:BY:81:LYS:HD3	57:BY:97:ARG:HB3	1.27	1.17
22:AV:72:C:C2'	22:AV:73:A:H5''	1.75	1.17
35:BA:1879:C:H2'	35:BA:1880:C:H5''	1.23	1.16
35:BA:271(S):G:H2'	35:BA:271(T):C:H5''	1.27	1.16
42:DH:13:LYS:HD3	42:DH:14:GLY:H	1.10	1.15
41:DG:22:ARG:HH11	41:DG:22:ARG:HB3	1.07	1.15
22:AW:16:U:H3'	22:AW:17:C:H5'	1.21	1.15
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.24	1.15
35:DA:1590:U:H2'	35:DA:1591:G:H5''	1.15	1.15
49:BQ:141:GLN:H	58:BZ:99:TYR:HB2	0.98	1.15
35:BA:2758:A:H2'	35:BA:2759:G:H5''	1.24	1.14
45:DK:94:GLU:H	58:DZ:112:ARG:NH2	1.46	1.14
35:BA:1590:U:H2'	35:BA:1591:G:H5''	1.14	1.14
35:DA:612:C:H2'	35:DA:613:G:H5''	1.29	1.14
35:DA:2348:U:H2'	35:DA:2349:G:H5''	1.18	1.13
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.15	1.13
1:CA:1305:G:H22	1:CA:1331:G:H2'	1.08	1.12
27:D2:68:ARG:HA	27:D2:72:ALA:HB3	1.30	1.12
35:DA:1887:C:H2'	35:DA:1888:G:H5''	1.23	1.12
35:DA:598:G:H5''	48:DP:15:ARG:HD2	1.31	1.12
35:DA:925:C:H2'	35:DA:926:A:H5''	1.21	1.11
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.08	1.11
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	1.89	1.11
35:DA:1884:A:H2'	35:DA:1885:A:H5''	1.24	1.11
35:BA:2348:U:H2'	35:BA:2349:G:H5''	1.17	1.11
31:B6:28:ARG:HB3	31:B6:28:ARG:HH11	1.14	1.11
31:D6:28:ARG:HB3	31:D6:28:ARG:HH11	1.12	1.11
33:D8:33:ASN:HD22	33:D8:34:TRP:N	1.48	1.11
52:BT:30:VAL:HG11	52:BT:84:GLN:HG3	1.32	1.11
35:BA:925:C:H2'	35:BA:926:A:H5''	1.19	1.11
33:B8:33:ASN:HD22	33:B8:34:TRP:N	1.49	1.11
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.33	1.10
26:B1:81:LYS:HE3	35:BA:271(H):G:H5'	1.33	1.10
48:BP:30:THR:HG22	48:BP:31:ALA:H	1.14	1.10
35:DA:2701:C:H3'	35:DA:2702:U:C5'	1.81	1.10
35:DA:1879:C:H2'	35:DA:1880:C:H5''	1.22	1.10
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.31	1.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AV:71:G:C2'	22:AV:72:C:H5''	1.80	1.10
57:DY:46:LYS:N	57:DY:62:GLU:HG2	1.65	1.10
60:DI:81:VAL:HG23	60:DI:146:ALA:N	1.66	1.10
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.17	1.09
35:DA:2758:A:H2'	35:DA:2759:G:H5''	1.25	1.09
35:BA:549:G:H2'	35:BA:551:G:H5''	1.31	1.09
42:BH:13:LYS:HD3	42:BH:14:GLY:H	1.09	1.09
35:DA:2562:U:H1'	47:DO:23:ARG:HH12	1.08	1.09
48:DP:30:THR:HG22	48:DP:31:ALA:H	1.13	1.09
35:BA:925:C:C2'	35:BA:926:A:H5''	1.82	1.09
2:CB:178:ARG:HH22	2:CB:196:LEU:HA	1.17	1.09
40:BF:3:GLU:HG2	40:BF:19:GLU:HB2	1.35	1.08
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.23	1.08
40:BF:24:LEU:HD12	40:BF:25:PRO:HD3	1.33	1.08
35:DA:271(S):G:H2'	35:DA:271(T):C:H5''	1.29	1.08
19:CS:63:THR:H	19:CS:66:MET:HE3	1.16	1.08
37:DC:168:THR:HA	37:DC:173:ALA:HB2	1.32	1.08
22:AV:71:G:H2'	22:AV:72:C:H5''	1.21	1.08
33:B8:52:LYS:H	33:B8:53:PRO:HD2	1.10	1.08
35:BA:598:G:H5''	48:BP:15:ARG:HD2	1.33	1.08
37:BC:168:THR:HA	37:BC:173:ALA:HB2	1.32	1.08
28:D3:3:ARG:HB3	28:D3:36:VAL:HB	1.34	1.08
58:BZ:165:VAL:HG12	58:BZ:166:SER:H	1.13	1.08
24:AY:344:LEU:H	24:AY:344:LEU:HD23	1.11	1.07
30:B5:3:LYS:HA	30:B5:3:LYS:HE3	1.33	1.07
41:BG:137:GLU:HA	41:BG:152:LEU:HD11	1.36	1.07
35:BA:2348:U:C2'	35:BA:2349:G:H5''	1.85	1.07
35:BA:2562:U:H1'	47:BO:23:ARG:HH12	1.12	1.07
57:BY:46:LYS:H	57:BY:62:GLU:HG2	0.91	1.07
35:DA:549:G:H2'	35:DA:551:G:H5''	1.29	1.07
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.33	1.07
26:B1:86:SER:HB2	26:B1:90:ILE:HG12	1.31	1.07
59:D4:43:GLY:H	59:D4:60:GLU:HA	1.18	1.07
30:D5:3:LYS:HA	30:D5:3:LYS:HE3	1.35	1.07
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.30	1.07
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.32	1.06
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.36	1.06
40:DF:3:GLU:HG2	40:DF:19:GLU:HB2	1.33	1.06
57:BY:46:LYS:N	57:BY:62:GLU:HG2	1.70	1.06
33:D8:62:LEU:HD13	35:DA:242:G:H5''	1.14	1.06
35:BA:2701:C:H3'	35:BA:2702:U:C5'	1.84	1.06
35:BA:612:C:H2'	35:BA:613:G:H5''	1.33	1.06

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:84:VAL:HG12	40:DF:85:GLY:H	1.20	1.06
24:AY:93:GLU:HA	24:AY:96:LYS:HD2	1.38	1.06
35:DA:925:C:C2'	35:DA:926:A:H5''	1.84	1.06
30:B5:2:ALA:HA	35:BA:2015:A:H1'	1.36	1.06
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.27	1.06
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.29	1.06
30:D5:40:LYS:HE3	30:D5:46:CYS:N	1.69	1.05
4:AD:59:ARG:HA	4:AD:59:ARG:HE	1.20	1.05
25:B0:41:ARG:H	25:B0:41:ARG:HD2	1.21	1.05
41:DG:82:LEU:HD22	41:DG:87:PRO:HG3	1.33	1.05
58:BZ:108:PRO:HA	58:BZ:142:SER:HA	1.35	1.05
35:DA:2348:U:C2'	35:DA:2349:G:H5''	1.86	1.05
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.36	1.05
24:CY:16:TYR:HA	24:CY:55:LEU:HD11	1.38	1.05
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	1.87	1.05
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.33	1.05
22:CW:38:A:H3'	22:CW:39:U:H5''	1.36	1.05
41:BG:22:ARG:HB3	41:BG:22:ARG:HH11	1.19	1.05
40:BF:53:THR:HG23	40:BF:55:GLY:H	1.19	1.05
23:AX:23:G:H1	24:AY:128:GLU:HG3	1.21	1.05
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	1.87	1.04
41:DG:46:ALA:HB2	41:DG:53:LEU:HD12	1.34	1.04
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.36	1.04
39:DE:132:HIS:HB2	39:DE:135:HIS:CE1	1.92	1.04
60:DI:75:LEU:HB2	60:DI:141:LYS:HB2	1.38	1.04
26:D1:81:LYS:HE3	35:DA:271(H):G:H5'	1.33	1.04
26:B1:81:LYS:CE	35:BA:271(H):G:C5'	2.00	1.04
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	1.87	1.04
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.14	1.04
27:B2:69:ARG:HH22	35:BA:111:A:H5''	1.19	1.04
35:DA:2781:A:H5'	35:DA:2782:G:H5'	1.39	1.04
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.33	1.04
35:DA:2571:C:H5'	35:DA:2572:A:H5''	1.35	1.04
39:BE:132:HIS:HB2	39:BE:135:HIS:CE1	1.91	1.04
4:CD:59:ARG:HA	4:CD:59:ARG:HE	1.18	1.04
52:BT:89:VAL:HG11	52:BT:91:ARG:HE	1.13	1.04
41:DG:51:ARG:HE	41:DG:51:ARG:HA	1.19	1.04
24:AY:22:LYS:HA	24:AY:25:ARG:HD2	1.39	1.04
2:AB:178:ARG:HH22	2:AB:196:LEU:HA	1.16	1.04
2:CB:172:ILE:H	2:CB:172:ILE:HD12	1.22	1.04
28:B3:3:ARG:HB3	28:B3:36:VAL:HB	1.35	1.04
35:BA:1590:U:C2'	35:BA:1591:G:H5''	1.88	1.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:33:ASN:HA	33:D8:36:LYS:HD2	1.38	1.03
30:B5:40:LYS:HE3	30:B5:46:CYS:N	1.73	1.03
40:DF:24:LEU:HD12	40:DF:25:PRO:HD3	1.34	1.03
33:B8:33:ASN:HA	33:B8:36:LYS:HD2	1.40	1.03
38:DD:79:VAL:HG21	38:DD:111:LEU:HD11	1.38	1.03
27:B2:39:ALA:HA	27:B2:45:SER:HB3	1.41	1.03
35:BA:2571:C:H5'	35:BA:2572:A:H5''	1.35	1.03
52:DT:30:VAL:HG11	52:DT:84:GLN:HG3	1.36	1.03
52:DT:89:VAL:HG11	52:DT:91:ARG:HE	1.16	1.03
50:DR:10:LEU:HB3	50:DR:17:ARG:HD2	1.38	1.03
54:DV:46:VAL:HG22	54:DV:47:VAL:H	1.21	1.03
26:D1:8:SER:HB3	26:D1:66:HIS:ND1	1.74	1.03
35:DA:2287:A:N6	35:DA:2344:U:H3	1.57	1.03
48:DP:128:HIS:HA	48:DP:147:LEU:HB3	1.40	1.03
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.19	1.03
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	1.99	1.03
48:BP:128:HIS:HA	48:BP:147:LEU:HB3	1.38	1.03
40:DF:53:THR:HG23	40:DF:55:GLY:H	1.18	1.03
35:DA:271(M):G:H2'	35:DA:271(N):U:H5''	1.37	1.03
38:BD:79:VAL:HG21	38:BD:111:LEU:HD11	1.38	1.03
25:D0:51:VAL:HG21	25:D0:80:HIS:HA	1.38	1.03
45:DK:93:ARG:HE	58:DZ:112:ARG:HD2	1.22	1.02
35:DA:2758:A:C2'	35:DA:2759:G:H5''	1.89	1.02
25:D0:41:ARG:HD2	25:D0:41:ARG:H	1.22	1.02
35:BA:2758:A:C2'	35:BA:2759:G:H5''	1.89	1.02
35:DA:1879:C:C2'	35:DA:1880:C:H5''	1.88	1.02
29:B4:43:GLY:H	29:B4:60:GLU:HA	1.18	1.02
35:DA:747:U:H5'	55:DW:90:ARG:HH12	1.22	1.02
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.21	1.02
1:AA:558:G:H3'	1:AA:559:A:H5''	1.41	1.02
41:DG:47:LYS:HE3	41:DG:81:LYS:HB2	1.37	1.02
35:BA:361:G:H2'	35:BA:362:U:H5''	1.39	1.02
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.37	1.02
52:BT:89:VAL:CG1	52:BT:91:ARG:HE	1.72	1.02
35:DA:361:G:H2'	35:DA:362:U:H5''	1.39	1.02
37:BC:78:ALA:HB1	37:BC:82:LYS:HB2	1.41	1.02
35:BA:1879:C:C2'	35:BA:1880:C:H5''	1.90	1.01
35:BA:2287:A:H62	35:BA:2344:U:H3	1.07	1.01
42:BH:159:GLU:HG3	42:BH:160:LYS:HG2	1.38	1.01
35:DA:2092:U:H4'	35:DA:2093:G:O5'	1.56	1.01
1:AA:1442(A):G:H3'	1:AA:1442(B):A:H5''	1.39	1.01
41:BG:21:ARG:HH11	41:BG:21:ARG:HB3	1.21	1.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D6:28:ARG:HA	31:D6:32:ASN:HD22	1.23	1.01
57:DY:46:LYS:H	57:DY:62:GLU:HG2	0.89	1.01
24:AY:139:MET:HE3	24:AY:341:LEU:HD21	1.43	1.01
41:BG:114:ILE:HG22	41:BG:116:ASP:H	1.26	1.01
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.42	1.01
2:AB:185:ILE:HG12	2:AB:199:TYR:HB2	1.43	1.01
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.38	1.01
35:DA:1590:U:C2'	35:DA:1591:G:H5''	1.89	1.01
35:BA:747:U:H5'	55:BW:90:ARG:HH12	1.23	1.01
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.36	1.01
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.39	1.01
5:CE:81:GLU:HG2	5:CE:90:VAL:HG12	1.42	1.01
50:BR:10:LEU:HB3	50:BR:17:ARG:HD2	1.40	1.01
30:D5:2:ALA:HA	35:DA:2015:A:H1'	1.36	1.00
41:BG:76:SER:HB2	41:BG:83:ARG:HG2	1.42	1.00
31:B6:28:ARG:HA	31:B6:32:ASN:HD22	1.23	1.00
48:BP:40:SER:C	48:BP:41:ARG:HD2	1.81	1.00
35:BA:1899:G:N2	35:BA:1902:C:H41	1.60	1.00
45:DK:95:LYS:HG2	45:DK:137:GLU:HB3	1.40	1.00
26:D1:81:LYS:CE	35:DA:271(H):G:C5'	2.06	1.00
58:DZ:152:ALA:HB2	58:DZ:168:GLU:N	1.77	1.00
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.41	1.00
35:BA:1173:G:H3'	35:BA:1174:A:H5'	1.43	1.00
52:DT:13:ARG:CZ	52:DT:13:ARG:HA	1.90	1.00
54:BV:46:VAL:HG22	54:BV:47:VAL:H	1.27	1.00
57:BY:28:LYS:HB2	57:BY:37:VAL:HB	1.42	1.00
9:CI:55:ALA:HA	9:CI:58:ARG:HH12	1.27	0.99
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.43	0.99
1:AA:979:C:H3'	1:AA:980:C:H5''	1.44	0.99
1:AA:328:C:H4'	1:AA:329:A:H5'	1.41	0.99
5:AE:81:GLU:HG2	5:AE:90:VAL:HG12	1.43	0.99
4:AD:192:GLU:HB2	6:CF:16:GLN:HE22	1.25	0.99
52:BT:13:ARG:HA	52:BT:13:ARG:CZ	1.92	0.99
42:BH:96:ALA:HB2	42:BH:105:LEU:HD13	1.45	0.99
45:BK:95:LYS:HG2	45:BK:137:GLU:HB3	1.41	0.99
25:D0:10:THR:HG22	25:D0:11:ARG:H	1.26	0.99
1:CA:558:G:H3'	1:CA:559:A:H5''	1.42	0.99
22:AV:72:C:H2'	22:AV:73:A:C5'	1.91	0.99
35:BA:2287:A:N6	35:BA:2344:U:H3	1.59	0.99
35:DA:2701:C:H3'	35:DA:2702:U:H5''	1.00	0.99
52:DT:89:VAL:CG1	52:DT:91:ARG:HE	1.75	0.99
35:DA:1173:G:H3'	35:DA:1174:A:H5'	1.43	0.99

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:BW:5:ALA:HB1	55:BW:50:VAL:HG23	1.44	0.99
55:DW:5:ALA:HB1	55:DW:50:VAL:HG23	1.44	0.99
1:CA:328:C:H4'	1:CA:329:A:H5''	1.40	0.99
60:DI:38:LEU:H	60:DI:38:LEU:HD12	1.27	0.99
48:DP:40:SER:C	48:DP:41:ARG:HD2	1.82	0.99
42:DH:159:GLU:HG3	42:DH:160:LYS:HG2	1.40	0.99
31:D6:15:GLU:CD	31:D6:18:ARG:NE	2.17	0.98
35:BA:2701:C:H3'	35:BA:2702:U:H5''	1.03	0.98
35:DA:1176:G:H21	35:DA:1178:C:H1'	1.28	0.98
41:DG:97:ASP:O	41:DG:101:ILE:HG23	1.63	0.98
25:B0:10:THR:HG22	25:B0:11:ARG:H	1.26	0.98
35:BA:2781:A:H5'	35:BA:2782:G:H5'	1.40	0.98
45:DK:21:PRO:HB2	45:DK:22:PRO:HD3	1.45	0.98
4:AD:20:TYR:HA	4:AD:26:CYS:SG	2.04	0.98
31:B6:41:PRO:HD2	31:B6:45:LYS:HA	1.45	0.98
41:DG:46:ALA:HA	41:DG:51:ARG:HD3	1.45	0.98
45:BK:21:PRO:HB2	45:BK:22:PRO:HD3	1.45	0.98
31:D6:15:GLU:CD	31:D6:18:ARG:HE	1.66	0.98
37:DC:78:ALA:HB1	37:DC:82:LYS:HB2	1.44	0.98
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.24	0.98
35:DA:2562:U:H1'	47:DO:23:ARG:NH1	1.77	0.98
35:BA:1176:G:H21	35:BA:1178:C:H1'	1.29	0.98
22:AW:5:G:H22	22:AW:68:C:H42	1.10	0.98
58:DZ:30:ASN:HD22	58:DZ:32:HIS:H	1.08	0.98
57:BY:8:LYS:HE3	57:BY:72:VAL:HG23	1.46	0.98
35:DA:560:C:H4'	53:DU:52:ARG:NH2	1.79	0.97
35:DA:784:A:H5''	38:DD:227:ASN:HD21	1.26	0.97
8:AH:122:ARG:HB2	8:AH:122:ARG:HH11	1.28	0.97
35:DA:1899:G:N2	35:DA:1902:C:H41	1.60	0.97
58:DZ:91:LEU:HD12	58:DZ:91:LEU:H	1.29	0.97
22:CW:27:G:H1	22:CW:43:C:H42	1.01	0.97
60:DI:83:ALA:HB2	60:DI:88:ILE:HD13	1.41	0.97
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.43	0.97
42:DH:13:LYS:HA	42:DH:13:LYS:HE2	1.45	0.97
35:BA:875:G:H4'	58:BZ:170:THR:HG21	1.46	0.97
1:CA:979:C:H3'	1:CA:980:C:H5''	1.43	0.97
35:DA:1528(A):A:H2'	35:DA:1529:G:H5''	1.43	0.97
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.42	0.97
24:AY:214:VAL:HG13	24:AY:215:ASP:H	1.29	0.97
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.46	0.97
19:AS:63:THR:H	19:AS:66:MET:HE3	1.25	0.97
52:BT:100:TYR:HD2	52:BT:103:ARG:HH21	1.12	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BV:6:LYS:O	54:BV:37:VAL:HG21	1.65	0.97
35:BA:996:A:H4'	53:BU:92:ARG:HD2	1.45	0.97
35:BA:784:A:H5''	38:BD:227:ASN:HD21	1.30	0.97
45:DK:93:ARG:HB3	58:DZ:112:ARG:NE	1.78	0.97
35:BA:1504:C:H2'	35:BA:1505:C:H5''	1.45	0.97
52:DT:35:LYS:HE2	52:DT:41:ARG:HE	1.28	0.96
36:BB:84:C:H2'	36:BB:85:G:H5''	1.44	0.96
29:B4:59:VAL:HG12	29:B4:60:GLU:H	1.30	0.96
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.45	0.96
8:CH:122:ARG:HH11	8:CH:122:ARG:HB2	1.28	0.96
1:CA:955:U:H1'	1:CA:1227:A:H61	1.31	0.96
35:DA:2287:A:H62	35:DA:2344:U:H3	1.08	0.96
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.46	0.96
42:BH:13:LYS:HA	42:BH:13:LYS:HE2	1.45	0.96
25:B0:51:VAL:HG21	25:B0:80:HIS:HA	1.45	0.96
39:BE:132:HIS:HB2	39:BE:135:HIS:NE2	1.80	0.96
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.01	0.96
58:BZ:48:PHE:HA	58:BZ:51:ALA:HB3	1.47	0.96
2:CB:185:ILE:HG12	2:CB:199:TYR:HB2	1.44	0.96
35:DA:996:A:H4'	53:DU:92:ARG:HD2	1.47	0.96
51:DS:89:ARG:HH11	51:DS:92:TYR:HA	1.28	0.96
37:BC:36:LYS:HG3	37:BC:37:PHE:H	1.30	0.96
57:BY:28:LYS:HZ2	57:BY:28:LYS:H	0.96	0.96
35:DA:1504:C:H2'	35:DA:1505:C:H5''	1.44	0.96
51:BS:89:ARG:HH11	51:BS:92:TYR:HA	1.28	0.96
35:BA:2036:C:H5'	35:BA:2036:C:H6	1.31	0.96
45:DK:93:ARG:H	58:DZ:112:ARG:HH21	1.13	0.95
39:DE:132:HIS:HB2	39:DE:135:HIS:NE2	1.80	0.95
52:BT:35:LYS:HE2	52:BT:41:ARG:HE	1.30	0.95
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.44	0.95
36:BB:95:C:H2'	36:BB:96:U:H6	1.31	0.95
35:BA:1528(A):A:H2'	35:BA:1529:G:H5''	1.47	0.95
35:BA:271(S):G:C2'	35:BA:271(T):C:H5''	1.96	0.95
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	1.97	0.95
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	1.96	0.95
35:BA:2533:A:H2'	35:BA:2534:A:H5''	1.48	0.95
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.28	0.95
35:DA:1884:A:C2'	35:DA:1885:A:H5''	1.96	0.95
59:D4:59:VAL:HG12	59:D4:60:GLU:H	1.29	0.95
35:BA:1884:A:C2'	35:BA:1885:A:H5''	1.96	0.95
40:DF:84:VAL:HG12	40:DF:85:GLY:N	1.75	0.95
41:BG:41:GLN:HG2	41:BG:155:MET:HB3	1.43	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DY:8:LYS:HE3	57:DY:72:VAL:HG23	1.49	0.95
26:D1:81:LYS:HE2	35:DA:271(H):G:H5"	1.46	0.95
12:AL:55:VAL:HG12	12:AL:56:ALA:H	1.30	0.95
37:DC:51:PRO:HG3	37:DC:204:ALA:HA	1.49	0.95
35:BA:2562:U:H1'	47:BO:23:ARG:NH1	1.80	0.95
41:BG:39:ILE:HD11	41:BG:92:VAL:HG12	1.46	0.95
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.46	0.95
27:B2:61:LEU:H	27:B2:61:LEU:HD23	1.32	0.95
60:DI:66:GLU:HG3	60:DI:69:LYS:HD2	1.45	0.95
22:AV:72:C:H2'	22:AV:73:A:H5"	0.95	0.95
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.48	0.95
58:BZ:111:VAL:HG13	58:BZ:112:ARG:H	1.28	0.95
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.30	0.95
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.82	0.95
41:BG:107:LEU:HD23	41:BG:107:LEU:H	1.30	0.94
57:DY:28:LYS:HB2	57:DY:37:VAL:HB	1.48	0.94
24:CY:51:GLU:HA	24:CY:54:ARG:NH2	1.81	0.94
49:BQ:134:ARG:HD3	58:BZ:122:ARG:HH11	1.31	0.94
38:BD:28:GLU:HB3	38:BD:29:PRO:HD3	1.48	0.94
58:DZ:131:ARG:HG3	58:DZ:132:ASN:H	1.32	0.94
51:DS:66:ALA:O	51:DS:69:VAL:HG12	1.67	0.94
31:D6:41:PRO:HD2	31:D6:45:LYS:HA	1.48	0.94
37:DC:82:LYS:HE3	37:DC:151:GLU:HA	1.49	0.94
35:BA:560:C:H4'	53:BU:52:ARG:NH2	1.81	0.94
35:DA:1019:U:HO2'	35:DA:1021:A:H2	1.10	0.94
9:AI:55:ALA:HA	9:AI:58:ARG:HH12	1.27	0.94
57:BY:60:PHE:HA	57:BY:62:GLU:OE2	1.66	0.94
35:DA:870:A:H5"	49:DQ:6:ARG:HB2	1.49	0.94
35:BA:1899:G:H22	35:BA:1902:C:H41	1.10	0.94
17:AQ:7:THR:HG22	17:AQ:58:GLU:HG2	1.49	0.94
42:DH:96:ALA:HB2	42:DH:105:LEU:HD13	1.49	0.94
24:CY:54:ARG:HD2	24:CY:101:LEU:HD21	1.47	0.94
7:CG:54:THR:OG1	7:CG:56:GLN:HG2	1.67	0.94
1:CA:266:G:H5"	1:CA:268:C:H41	1.32	0.94
50:BR:33:ARG:HG3	50:BR:115:GLU:HG3	1.49	0.94
1:CA:1346:A:H5"	9:CI:120:ARG:HH12	1.32	0.94
1:AA:266:G:H5"	1:AA:268:C:H41	1.32	0.94
26:B1:86:SER:HB3	26:B1:89:GLU:HB2	1.46	0.94
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	1.65	0.94
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG12	1.48	0.94
19:AS:40:ILE:HG21	19:AS:62:ILE:HD11	1.49	0.94
31:D6:19:ARG:HG2	31:D6:20:ASN:H	1.33	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	1.81	0.93
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.47	0.93
60:DI:7:GLU:HB3	60:DI:8:PRO:HD2	1.48	0.93
17:CQ:7:THR:HG22	17:CQ:58:GLU:HG2	1.49	0.93
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	1.82	0.93
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.83	0.93
35:DA:1012:U:O4	46:DN:28:THR:HG21	1.66	0.93
58:DZ:53:ILE:CG2	58:DZ:71:VAL:HB	1.98	0.93
35:DA:612:C:C2'	35:DA:613:G:H5''	1.97	0.93
42:DH:83:TYR:HA	42:DH:135:GLY:H	1.32	0.93
38:DD:28:GLU:HB3	38:DD:29:PRO:HD3	1.47	0.93
52:DT:91:ARG:HB3	52:DT:116:ALA:HA	1.51	0.93
35:DA:1116:C:H2'	35:DA:1117:G:H5'	1.50	0.93
57:DY:60:PHE:HA	57:DY:62:GLU:OE2	1.68	0.93
54:DV:6:LYS:O	54:DV:37:VAL:HG21	1.68	0.93
37:DC:36:LYS:HG3	37:DC:37:PHE:H	1.31	0.93
49:BQ:141:GLN:N	58:BZ:99:TYR:HB2	1.84	0.93
27:D2:11:GLU:HA	27:D2:14:ARG:HD2	1.50	0.93
32:D7:8:ASN:C	32:D7:8:ASN:HD22	1.69	0.93
36:DB:56:G:H5'	41:DG:27:ASN:HD21	1.34	0.93
58:BZ:165:VAL:HG12	58:BZ:167:PRO:HA	1.49	0.93
31:B6:15:GLU:CD	31:B6:18:ARG:NE	2.23	0.93
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.32	0.93
33:D8:52:LYS:H	33:D8:53:PRO:CD	1.82	0.93
6:CF:8:ILE:HD11	6:CF:79:LEU:HD13	1.51	0.93
35:BA:1064:C:H4'	45:BK:89:HIS:HD2	1.34	0.93
35:BA:1504:C:C2'	35:BA:1505:C:H5''	1.99	0.92
32:B7:8:ASN:HD22	32:B7:8:ASN:C	1.69	0.92
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.32	0.92
50:DR:2:ARG:N	50:DR:2:ARG:HE	1.66	0.92
4:AD:133:VAL:HG11	4:AD:138:TYR:HD1	1.33	0.92
26:D1:88:LYS:NZ	26:D1:92:LYS:HB2	1.84	0.92
6:AF:8:ILE:HD11	6:AF:79:LEU:HD13	1.48	0.92
43:BI:9:LEU:HD12	43:BI:12:LEU:HD12	1.50	0.92
35:DA:1504:C:C2'	35:DA:1505:C:H5''	1.98	0.92
35:BA:2875:C:H4'	52:BT:5:ALA:HB2	1.51	0.92
35:BA:1116:C:H2'	35:BA:1117:G:H5'	1.52	0.92
26:B1:81:LYS:HE2	35:BA:271(H):G:H5''	1.47	0.92
41:BG:83:ARG:HH21	41:BG:84:LYS:HZ3	1.03	0.92
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.52	0.92
19:CS:20:LEU:HA	19:CS:23:ASN:HD22	1.35	0.92
50:DR:33:ARG:HG3	50:DR:115:GLU:HG3	1.51	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1012:U:O4	46:BN:28:THR:HG21	1.68	0.92
35:DA:2036:C:H6	35:DA:2036:C:H5'	1.31	0.92
47:BO:53:LYS:HE2	47:BO:53:LYS:H	1.35	0.92
37:DC:49:ILE:HG13	37:DC:50:ASP:H	1.33	0.92
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.33	0.92
1:CA:59:A:C5'	1:CA:60:A:H5''	1.99	0.92
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.00	0.92
31:B6:19:ARG:HG2	31:B6:20:ASN:H	1.33	0.92
40:BF:67:GLN:HG3	40:BF:67:GLN:O	1.67	0.92
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.52	0.92
24:AY:150:GLN:HB2	24:AY:172:LYS:HB2	1.49	0.92
59:D4:51:TYR:CD2	41:DG:2:PRO:HD3	2.04	0.92
37:BC:49:ILE:HG13	37:BC:50:ASP:H	1.33	0.92
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.33	0.92
35:BA:870:A:H5''	49:BQ:6:ARG:HB2	1.51	0.92
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.33	0.92
41:DG:46:ALA:HB3	41:DG:88:ILE:HG21	1.52	0.92
37:BC:82:LYS:HE3	37:BC:151:GLU:HA	1.51	0.92
31:B6:20:ASN:ND2	31:B6:21:TYR:H	1.66	0.92
35:DA:784:A:H5''	38:DD:227:ASN:ND2	1.84	0.92
57:DY:28:LYS:NZ	57:DY:28:LYS:H	1.67	0.92
52:BT:3:ARG:HD2	52:BT:6:LEU:HB2	1.51	0.92
1:AA:955:U:H1'	1:AA:1227:A:H61	1.33	0.92
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	1.68	0.92
48:BP:30:THR:HG22	48:BP:31:ALA:N	1.85	0.92
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.52	0.92
41:DG:72:ARG:HH11	41:DG:86:MET:HA	1.32	0.92
35:DA:1899:G:H22	35:DA:1902:C:H41	1.07	0.92
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	1.83	0.91
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.33	0.91
53:DU:90:VAL:HG12	53:DU:91:ASP:H	1.35	0.91
35:BA:1190:G:H5''	48:BP:35:HIS:HA	1.52	0.91
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.48	0.91
1:AA:1445:C:H2'	1:AA:1446:U:H5'	1.49	0.91
28:B3:43:ILE:O	28:B3:47:VAL:HG23	1.70	0.91
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.48	0.91
52:DT:28:VAL:HG11	52:DT:46:GLU:HG3	1.52	0.91
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.00	0.91
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.52	0.91
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.51	0.91
35:DA:271(S):G:C2'	35:DA:271(T):C:H5''	2.00	0.91
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.51	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BR:2:ARG:HE	50:BR:2:ARG:N	1.68	0.91
48:DP:18:ARG:HB3	48:DP:18:ARG:NH1	1.86	0.91
52:BT:28:VAL:HG11	52:BT:46:GLU:HG3	1.52	0.91
1:AA:355:C:H2'	1:AA:356:A:H8	1.36	0.91
41:BG:107:LEU:HD13	41:BG:177:GLY:HA3	1.50	0.91
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.01	0.91
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.53	0.91
58:BZ:7:ALA:HB2	58:BZ:59:LEU:HD22	1.53	0.91
1:AA:59:A:C5'	1:AA:60:A:H5''	1.99	0.91
48:BP:18:ARG:HB3	48:BP:18:ARG:NH1	1.85	0.91
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.51	0.91
52:DT:100:TYR:HD2	52:DT:103:ARG:HH21	1.08	0.91
42:BH:158:HIS:NE2	42:BH:170:ARG:HA	1.85	0.91
28:D3:43:ILE:O	28:D3:47:VAL:HG23	1.71	0.91
56:DX:30:VAL:HG12	56:DX:31:HIS:H	1.34	0.91
36:DB:84:C:H2'	36:DB:85:G:H5''	1.53	0.91
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.01	0.91
60:DI:81:VAL:HG13	60:DI:82:ARG:H	1.35	0.91
33:B8:52:LYS:H	33:B8:53:PRO:CD	1.83	0.91
2:AB:18:GLY:H	2:AB:42:ILE:HG22	1.36	0.91
36:DB:95:C:H2'	36:DB:96:U:H6	1.34	0.91
42:DH:28:GLY:HA3	42:DH:79:VAL:HG21	1.51	0.91
35:DA:1169:G:H1	35:DA:1180:C:H42	1.15	0.91
35:BA:2681:C:H5	35:BA:2725:A:H62	1.17	0.91
1:CA:1305:G:N2	1:CA:1331:G:H2'	1.84	0.91
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.53	0.91
12:CL:24:VAL:HG13	12:CL:98:TYR:HE2	1.34	0.91
53:BU:90:VAL:HG12	53:BU:91:ASP:H	1.36	0.91
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.52	0.91
35:DA:914:C:H2'	35:DA:915:C:H5'	1.53	0.91
41:DG:60:LEU:O	41:DG:64:THR:HG22	1.71	0.91
42:BH:94:TYR:HA	42:BH:107:VAL:HG12	1.53	0.91
31:B6:15:GLU:CD	31:B6:18:ARG:HE	1.73	0.91
35:BA:780:G:H21	35:BA:783:A:H62	1.17	0.91
4:CD:133:VAL:HG11	4:CD:138:TYR:HD1	1.32	0.91
52:DT:3:ARG:HD2	52:DT:6:LEU:HB2	1.52	0.90
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.52	0.90
42:BH:83:TYR:HA	42:BH:135:GLY:H	1.33	0.90
35:BA:1887:C:C2'	35:BA:1888:G:H5''	2.01	0.90
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.52	0.90
51:DS:28:VAL:HB	51:DS:89:ARG:HB2	1.53	0.90
35:DA:2533:A:H2'	35:DA:2534:A:H5''	1.52	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DO:53:LYS:HE2	47:DO:53:LYS:H	1.37	0.90
43:BI:62:LYS:HE2	43:BI:133:HIS:HE2	1.36	0.90
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.33	0.90
2:CB:18:GLY:H	2:CB:42:ILE:HG22	1.37	0.90
24:CY:19:ILE:HG22	24:CY:52:ALA:HB2	1.54	0.90
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.00	0.90
35:DA:1022:G:H22	35:DA:1142(A):A:H2	1.18	0.90
1:CA:355:C:H2'	1:CA:356:A:H8	1.35	0.90
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.54	0.90
42:BH:97:ARG:HG2	42:BH:98:LEU:H	1.36	0.90
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.53	0.90
19:AS:20:LEU:HA	19:AS:23:ASN:HD22	1.35	0.90
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.52	0.90
24:CY:353:ALA:HA	24:CY:356:ARG:CZ	2.01	0.90
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.53	0.90
37:BC:51:PRO:HG3	37:BC:204:ALA:HA	1.51	0.90
33:B8:59:LYS:HD3	48:BP:50:ARG:HG3	1.53	0.90
51:BS:106:ARG:HH11	51:BS:108:GLY:H	1.16	0.90
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.36	0.90
33:D8:62:LEU:CD1	35:DA:242:G:H5''	2.01	0.90
35:DA:2308:G:O6	35:DA:2310:A:H2'	1.71	0.90
52:DT:28:VAL:HG22	52:DT:47:GLY:N	1.84	0.90
54:DV:5:VAL:HG23	54:DV:37:VAL:O	1.72	0.90
9:AI:63:ILE:HD11	9:AI:81:ILE:HD11	1.53	0.90
35:BA:1568:G:H5''	38:BD:61:LEU:HD13	1.54	0.90
35:BA:1019:U:HO2'	35:BA:1021:A:H2	1.15	0.90
24:CY:344:LEU:HD23	24:CY:344:LEU:H	1.36	0.90
26:B1:81:LYS:HE2	35:BA:271(H):G:C4'	2.00	0.90
52:BT:28:VAL:HG22	52:BT:47:GLY:N	1.86	0.90
30:B5:40:LYS:HE3	30:B5:46:CYS:H	1.36	0.90
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.79	0.90
40:BF:40:GLN:HE22	40:BF:182:ASN:HB2	1.36	0.90
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.52	0.90
33:D8:34:TRP:HB2	35:DA:2420:C:OP1	1.71	0.90
40:DF:40:GLN:HE22	40:DF:182:ASN:HB2	1.36	0.90
35:BA:34:C:O2'	35:BA:35:G:H5'	1.72	0.90
56:BX:30:VAL:HG12	56:BX:31:HIS:H	1.36	0.90
22:AW:16:U:H3'	22:AW:17:C:C5'	2.02	0.90
1:AA:1305:G:N2	1:AA:1331:G:H2'	1.85	0.90
57:BY:28:LYS:NZ	57:BY:28:LYS:H	1.70	0.90
31:D6:20:ASN:ND2	31:D6:21:TYR:H	1.70	0.90
35:DA:1779:U:H5	35:DA:1784:A:N7	1.70	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:50:GLU:HB3	20:CT:100:ILE:HG12	1.54	0.90
54:BV:99:ILE:H	54:BV:99:ILE:HD13	1.36	0.90
41:BG:38:VAL:HG12	41:BG:93:THR:HA	1.54	0.89
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.52	0.89
22:CW:38:A:H3'	22:CW:39:U:C5'	2.02	0.89
41:DG:101:ILE:HD13	41:DG:102:PHE:N	1.87	0.89
35:DA:780:G:H21	35:DA:783:A:H62	1.19	0.89
52:BT:106:SER:HB2	52:BT:110:ILE:HD11	1.53	0.89
52:DT:106:SER:HB2	52:DT:110:ILE:HD11	1.54	0.89
40:DF:67:GLN:O	40:DF:67:GLN:HG3	1.73	0.89
42:DH:97:ARG:HG2	42:DH:98:LEU:H	1.37	0.89
41:DG:22:ARG:HH11	41:DG:22:ARG:CB	1.85	0.89
58:DZ:151:HIS:HB2	58:DZ:169:GLU:O	1.72	0.89
27:D2:10:LEU:HD13	27:D2:14:ARG:HH21	1.36	0.89
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.52	0.89
38:BD:25:THR:CG2	38:BD:82:ILE:H	1.84	0.89
41:DG:22:ARG:NH1	41:DG:22:ARG:HB3	1.86	0.89
26:D1:3:LYS:HG3	26:D1:4:VAL:H	1.36	0.89
35:DA:1064:C:H4'	45:DK:89:HIS:HD2	1.34	0.89
40:DF:25:PRO:HG3	40:DF:119:ARG:HG3	1.54	0.89
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.54	0.89
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.54	0.89
26:B1:3:LYS:HG3	26:B1:4:VAL:H	1.36	0.89
35:BA:654(M):C:H2'	35:BA:654(N):G:C8	2.08	0.89
30:D5:58:LEU:HD23	30:D5:59:GLU:H	1.37	0.89
42:BH:28:GLY:HA3	42:BH:79:VAL:HG21	1.51	0.89
35:BA:2068:U:H3	35:BA:2430:A:H2	0.92	0.89
35:DA:654(J):A:H2'	35:DA:654(L):G:C8	2.07	0.89
42:DH:94:TYR:HA	42:DH:107:VAL:HG12	1.54	0.89
19:CS:40:ILE:HG21	19:CS:62:ILE:HD11	1.52	0.89
48:DP:30:THR:HG22	48:DP:31:ALA:N	1.84	0.89
52:DT:3:ARG:HG2	52:DT:6:LEU:H	1.36	0.89
35:BA:674:G:H1'	40:BF:74:ARG:HD2	1.54	0.89
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.38	0.89
33:D8:59:LYS:HD3	48:DP:50:ARG:HG3	1.55	0.89
28:B3:2:PRO:HD2	28:B3:39:ASP:HB2	1.54	0.89
3:CC:92:ALA:HB2	3:CC:99:VAL:HG21	1.52	0.89
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.51	0.89
30:D5:40:LYS:HE3	30:D5:46:CYS:H	1.32	0.89
52:BT:91:ARG:HB3	52:BT:116:ALA:HA	1.53	0.89
58:DZ:165:VAL:HG12	58:DZ:166:SER:H	1.38	0.89
31:D6:33:LYS:HA	31:D6:33:LYS:HE2	1.54	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.54	0.89
35:BA:1082:U:H5'	45:BK:117:THR:HG22	1.55	0.89
51:DS:106:ARG:HH11	51:DS:108:GLY:H	1.17	0.89
35:BA:774:A:H2	35:BA:787:U:HO2'	0.91	0.89
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.55	0.88
35:DA:2302:G:H1'	41:DG:128:ARG:NH2	1.88	0.88
57:DY:39:VAL:HG12	57:DY:40:GLU:H	1.38	0.88
47:BO:53:LYS:H	47:BO:53:LYS:CE	1.85	0.88
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.53	0.88
52:DT:129:ARG:CZ	52:DT:131:ALA:HB3	2.02	0.88
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.55	0.88
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.38	0.88
51:BS:66:ALA:O	51:BS:69:VAL:HG12	1.73	0.88
35:DA:1190:G:H5''	48:DP:35:HIS:HA	1.52	0.88
35:BA:655:A:H4'	35:BA:656:G:H5'	1.55	0.88
39:BE:69:LYS:HE3	39:BE:90:THR:H	1.38	0.88
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.88	0.88
33:B8:32:LEU:HD13	33:B8:32:LEU:H	1.36	0.88
22:AW:72:C:H2'	22:AW:73:A:O4'	1.72	0.88
57:DY:28:LYS:H	57:DY:28:LYS:HZ2	0.92	0.88
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.38	0.88
35:DA:1568:G:H5''	38:DD:61:LEU:HD13	1.54	0.88
20:AT:50:GLU:HB3	20:AT:100:ILE:HG12	1.54	0.88
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.39	0.88
35:DA:655:A:H4'	35:DA:656:G:H5'	1.56	0.88
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.37	0.88
24:AY:97:LYS:HA	24:AY:100:GLU:HB2	1.56	0.88
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.55	0.88
35:DA:2875:C:H4'	52:DT:5:ALA:HB2	1.53	0.88
35:BA:1169:G:H1	35:BA:1180:C:H42	1.19	0.88
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.53	0.88
49:DQ:141:GLN:H	58:DZ:99:TYR:HB2	1.37	0.88
40:DF:24:LEU:CD1	40:DF:25:PRO:HD3	2.02	0.88
24:AY:41:ASP:N	24:AY:42:PRO:HD2	1.87	0.88
57:DY:28:LYS:N	57:DY:28:LYS:HZ2	1.71	0.88
42:BH:60:ARG:HH12	42:BH:64:LEU:HD21	1.39	0.88
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.38	0.88
22:AW:20:U:H2'	22:AW:21:A:H4'	1.56	0.88
35:DA:330:A:H2	35:DA:1210:A:H2'	1.39	0.88
22:AV:72:C:H6	22:AV:72:C:H5'	1.37	0.88
31:D6:28:ARG:NH1	31:D6:28:ARG:HB3	1.89	0.88
58:BZ:152:ALA:HB1	58:BZ:167:PRO:HG2	1.55	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:147:LEU:HD12	48:DP:148:LEU:H	1.38	0.88
42:DH:158:HIS:NE2	42:DH:170:ARG:HA	1.88	0.88
52:BT:3:ARG:HG2	52:BT:6:LEU:H	1.37	0.88
11:AK:29:ILE:HG22	11:AK:44:SER:HB2	1.56	0.88
54:DV:99:ILE:H	54:DV:99:ILE:HD13	1.37	0.88
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.36	0.88
38:DD:25:THR:CG2	38:DD:82:ILE:H	1.86	0.88
35:BA:2401:U:H3'	35:BA:2402:C:H5''	1.54	0.88
13:CM:27:LYS:HE3	13:CM:31:LYS:HE3	1.53	0.88
22:CV:3:C:H6	22:CV:3:C:H5'	1.35	0.88
17:CQ:52:LYS:H	17:CQ:52:LYS:HD2	1.39	0.88
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.89	0.88
2:CB:36:ARG:H	2:CB:41:ILE:HD13	1.39	0.88
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.56	0.88
31:B6:33:LYS:HA	31:B6:33:LYS:HE2	1.55	0.88
33:D8:32:LEU:HD13	33:D8:32:LEU:H	1.38	0.88
35:BA:612:C:C2'	35:BA:613:G:H5''	2.03	0.88
51:BS:28:VAL:HB	51:BS:89:ARG:HB2	1.54	0.88
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.39	0.88
35:DA:1846:G:H5'	35:DA:1847:A:OP2	1.73	0.88
39:DE:69:LYS:HE3	39:DE:90:THR:H	1.39	0.88
22:CW:16:U:H3'	22:CW:17:C:H5'	1.56	0.88
3:AC:89:GLU:HG3	3:AC:93:LYS:NZ	1.89	0.88
35:DA:2401:U:H3'	35:DA:2402:C:H5''	1.54	0.88
26:B1:81:LYS:NZ	35:BA:271(H):G:H5'	1.88	0.87
12:CL:55:VAL:HG12	12:CL:56:ALA:H	1.39	0.87
42:DH:60:ARG:HH12	42:DH:64:LEU:HD21	1.38	0.87
26:D1:81:LYS:HE2	35:DA:271(H):G:C4'	2.04	0.87
10:AJ:80:LYS:NZ	9:CI:95:LYS:HB3	1.89	0.87
35:DA:1826:G:H4'	38:DD:242:ARG:HE	1.38	0.87
60:DI:5:LEU:O	60:DI:6:LEU:HD23	1.74	0.87
35:BA:2876:G:H1'	52:BT:3:ARG:NH2	1.89	0.87
35:BA:654(J):A:H2'	35:BA:654(L):G:C8	2.09	0.87
45:DK:72:PRO:HG2	45:DK:77:LEU:HD21	1.56	0.87
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.55	0.87
49:DQ:110:THR:HB	49:DQ:112:GLU:HG2	1.56	0.87
3:AC:92:ALA:HB2	3:AC:99:VAL:HG21	1.54	0.87
35:BA:2283:C:H2'	35:BA:2284:C:H5'	1.56	0.87
48:BP:147:LEU:HD12	48:BP:148:LEU:H	1.39	0.87
41:BG:21:ARG:HB3	41:BG:21:ARG:NH1	1.88	0.87
57:BY:56:PRO:O	57:BY:57:GLN:HG3	1.74	0.87
57:DY:56:PRO:O	57:DY:57:GLN:HG3	1.74	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:124:SER:HB2	41:DG:131:TYR:CE1	2.08	0.87
41:DG:42:GLY:O	41:DG:43:LEU:HB2	1.74	0.87
41:DG:173:LEU:HB3	41:DG:178:PHE:HD2	1.38	0.87
47:DO:53:LYS:CE	47:DO:53:LYS:H	1.87	0.87
35:DA:2068:U:N3	35:DA:2430:A:H2	1.71	0.87
1:CA:404:U:H2'	1:CA:405:U:H6	1.40	0.87
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.40	0.87
41:DG:47:LYS:HG2	41:DG:82:LEU:HD12	1.55	0.87
1:AA:1442(A):G:H3'	1:AA:1442(B):A:C5'	2.04	0.87
35:BA:493:G:C2'	35:BA:494:G:H5''	2.04	0.87
45:BK:72:PRO:HG2	45:BK:77:LEU:HD21	1.55	0.87
52:BT:78:LEU:O	52:BT:78:LEU:HD23	1.75	0.87
54:BV:19:LYS:HG3	54:BV:20:LEU:N	1.87	0.87
57:BY:48:ALA:O	57:BY:49:VAL:HG13	1.75	0.87
35:DA:2681:C:H5	35:DA:2725:A:H62	1.17	0.87
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.37	0.87
35:DA:674:G:H1'	40:DF:74:ARG:HD2	1.57	0.87
40:BF:24:LEU:CD1	40:BF:25:PRO:HD3	2.04	0.87
35:BA:914:C:H2'	35:BA:915:C:H5'	1.56	0.87
35:DA:1082:U:H5'	45:DK:117:THR:HG22	1.56	0.87
24:CY:231:VAL:HG12	24:CY:246:ASP:HB3	1.57	0.87
1:CA:975:A:H4'	1:CA:976:G:H5''	1.56	0.87
35:DA:1887:C:C2'	35:DA:1888:G:H5''	2.02	0.87
4:CD:20:TYR:HA	4:CD:26:CYS:SG	2.15	0.87
52:DT:13:ARG:NH1	52:DT:13:ARG:HA	1.89	0.87
60:DI:6:LEU:HD12	60:DI:34:GLY:O	1.73	0.87
37:BC:44:HIS:HA	37:BC:175:VAL:H	1.38	0.87
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.40	0.87
40:BF:25:PRO:HG3	40:BF:119:ARG:HG3	1.55	0.86
35:BA:2308:G:O6	35:BA:2310:A:H2'	1.74	0.86
35:DA:654(M):C:H2'	35:DA:654(N):G:C8	2.09	0.86
1:AA:372:C:H4'	1:AA:373:A:OP1	1.73	0.86
2:AB:36:ARG:H	2:AB:41:ILE:HD13	1.39	0.86
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.54	0.86
19:AS:6:LYS:CE	19:AS:6:LYS:H	1.88	0.86
22:AW:9:A:H61	22:AW:22:G:H3'	1.39	0.86
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.39	0.86
41:DG:72:ARG:NH1	41:DG:86:MET:HA	1.90	0.86
50:DR:10:LEU:HB3	50:DR:17:ARG:CD	2.04	0.86
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.55	0.86
24:AY:154:VAL:HG11	24:AY:168:GLN:OE1	1.73	0.86
57:DY:8:LYS:H	57:DY:8:LYS:HD2	1.41	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:89:ARG:HH22	20:CT:104:LEU:HD21	1.39	0.86
35:DA:1697:G:H3'	35:DA:1698:A:H5''	1.58	0.86
35:BA:27:G:N2	35:BA:512:G:H2'	1.90	0.86
35:BA:1846:G:H5'	35:BA:1847:A:OP2	1.76	0.86
1:AA:404:U:H2'	1:AA:405:U:H6	1.40	0.86
35:BA:676:A:H8	35:BA:2069:G:H21	1.23	0.86
57:DY:87:LYS:HG3	57:DY:88:LYS:H	1.40	0.86
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.39	0.86
39:DE:181:LEU:HD21	52:DT:7:ILE:HG23	1.55	0.86
31:D6:30:THR:HG22	31:D6:31:PRO:HD2	1.58	0.86
30:B5:3:LYS:HG3	30:B5:4:HIS:H	1.41	0.86
22:CW:39:U:H2'	22:CW:40:C:H5'	1.58	0.86
35:DA:2283:C:H2'	35:DA:2284:C:H5'	1.57	0.86
24:CY:113:GLU:HA	24:CY:175:ASN:H	1.39	0.86
13:AM:27:LYS:HE3	13:AM:31:LYS:HE3	1.56	0.86
38:DD:106:ILE:HD11	38:DD:143:HIS:NE2	1.91	0.86
35:BA:330:A:H2	35:BA:1210:A:H2'	1.39	0.86
58:DZ:146:ILE:HG13	58:DZ:147:GLY:H	1.39	0.86
35:DA:1686:C:H6	35:DA:1686:C:H5'	1.40	0.86
58:DZ:30:ASN:ND2	58:DZ:32:HIS:H	1.72	0.86
49:BQ:134:ARG:HD3	58:BZ:122:ARG:NH1	1.91	0.86
3:CC:89:GLU:HG3	3:CC:93:LYS:NZ	1.90	0.86
35:BA:1779:U:H5	35:BA:1784:A:N7	1.73	0.86
35:DA:34:C:O2'	35:DA:35:G:H5'	1.76	0.86
58:BZ:101:PRO:O	58:BZ:102:LEU:HD12	1.76	0.86
48:BP:23:PRO:HB2	48:BP:33:ARG:HG3	1.56	0.86
48:DP:23:PRO:HB2	48:DP:33:ARG:HG3	1.57	0.86
50:DR:10:LEU:CB	50:DR:17:ARG:HD2	2.06	0.86
35:BA:493:G:H2'	35:BA:494:G:H5''	1.54	0.86
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.76	0.86
48:DP:7:ARG:O	48:DP:10:PRO:HD3	1.74	0.86
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.56	0.86
20:AT:89:ARG:HH22	20:AT:104:LEU:HD21	1.38	0.86
27:D2:55:ARG:HH11	35:DA:75:G:H4'	1.38	0.86
31:B6:28:ARG:NH1	31:B6:28:ARG:HB3	1.91	0.86
48:BP:7:ARG:O	48:BP:10:PRO:HD3	1.75	0.86
37:DC:44:HIS:HA	37:DC:175:VAL:H	1.40	0.86
50:BR:11:ASN:OD1	50:BR:12:ARG:N	2.08	0.86
54:DV:19:LYS:HG3	54:DV:20:LEU:N	1.91	0.86
35:DA:1024:G:H3'	35:DA:1025:G:H5''	1.55	0.86
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.58	0.86
4:AD:108:LEU:HD11	4:AD:174:LEU:HD13	1.58	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1149:C:H2'	1:CA:1150:U:H6	1.41	0.86
35:BA:784:A:H5''	38:BD:227:ASN:ND2	1.89	0.85
35:BA:1022:G:H22	35:BA:1142(A):A:H2	1.21	0.85
35:DA:2630:G:H1'	35:DA:2894:G:H1'	1.58	0.85
57:BY:87:LYS:HG3	57:BY:88:LYS:H	1.40	0.85
11:CK:29:ILE:HG22	11:CK:44:SER:HB2	1.56	0.85
22:CV:20:U:C3'	22:CV:21:A:H5'	2.05	0.85
41:DG:88:ILE:HG13	41:DG:89:GLY:H	1.41	0.85
56:BX:55:ASN:HD22	56:BX:80:ILE:HD11	1.41	0.85
24:CY:57:ARG:HA	24:CY:60:ASP:HB3	1.56	0.85
2:CB:187:LEU:HD22	2:CB:201:ILE:O	1.76	0.85
35:DA:2876:G:H1'	52:DT:3:ARG:NH2	1.90	0.85
57:BY:52:SER:O	57:BY:54:LYS:N	2.09	0.85
35:DA:2068:U:H3	35:DA:2430:A:H2	0.89	0.85
19:CS:6:LYS:H	19:CS:6:LYS:CE	1.88	0.85
5:AE:8:GLU:HG3	5:AE:34:VAL:HG22	1.57	0.85
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.76	0.85
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.05	0.85
52:DT:28:VAL:HG13	52:DT:46:GLU:HA	1.59	0.85
53:BU:92:ARG:O	53:BU:94:ASN:N	2.09	0.85
57:DY:52:SER:O	57:DY:54:LYS:N	2.09	0.85
1:CA:372:C:H4'	1:CA:373:A:OP1	1.74	0.85
35:DA:1187:G:H5''	54:DV:81:TYR:CE2	2.11	0.85
58:DZ:35:ARG:HG3	58:DZ:35:ARG:HH11	1.41	0.85
35:BA:212:G:O2'	35:BA:213:A:H5'	1.77	0.85
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	1.59	0.85
41:DG:67:LYS:H	41:DG:67:LYS:HD3	1.41	0.85
26:D1:86:SER:HB2	26:D1:90:ILE:HG12	1.59	0.85
41:BG:97:ASP:HB3	41:BG:98:ARG:HH21	1.39	0.85
57:BY:28:LYS:N	57:BY:28:LYS:HZ2	1.74	0.85
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.76	0.85
5:CE:101:ILE:H	5:CE:101:ILE:HD13	1.40	0.85
52:BT:129:ARG:CZ	52:BT:131:ALA:HB3	2.07	0.85
1:AA:370:C:H42	1:AA:391:G:H1	1.20	0.85
1:CA:1452:C:H4'	1:CA:1456:G:C4	2.11	0.85
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.76	0.85
24:CY:315:VAL:HG21	24:CY:320:TYR:CE2	2.11	0.85
3:CC:53:ALA:HB2	3:CC:115:LEU:HD21	1.57	0.85
39:DE:93:VAL:HG21	39:DE:180:ASN:HA	1.58	0.85
35:BA:2206:G:N2	35:BA:2207:G:H5'	1.90	0.85
24:AY:344:LEU:H	24:AY:344:LEU:CD2	1.90	0.85
35:DA:620:G:H4'	35:DA:621:A:C5'	2.06	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.58	0.85
35:DA:493:G:C2'	35:DA:494:G:H5''	2.07	0.85
51:DS:14:VAL:HG12	51:DS:15:ARG:H	1.42	0.85
35:BA:654(L):G:H2'	35:BA:654(M):C:O4'	1.76	0.85
22:CW:16:U:C5	22:CW:18:G:H3'	2.12	0.85
35:DA:774:A:H2	35:DA:787:U:HO2'	0.91	0.85
1:AA:736:C:H2'	1:AA:737:A:H8	1.42	0.85
27:B2:59:ARG:HA	27:B2:62:THR:HB	1.57	0.85
58:DZ:152:ALA:HB2	58:DZ:168:GLU:H	1.37	0.85
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.57	0.85
41:BG:51:ARG:NE	41:BG:51:ARG:HA	1.92	0.85
27:D2:7:ARG:HA	27:D2:10:LEU:HD12	1.56	0.85
38:BD:106:ILE:HD11	38:BD:143:HIS:NE2	1.90	0.85
24:CY:288:ARG:HA	24:CY:291:ARG:HB3	1.58	0.85
50:DR:11:ASN:OD1	50:DR:12:ARG:N	2.09	0.85
41:DG:128:ARG:C	41:DG:130:ASN:H	1.80	0.85
35:DA:747:U:H5'	55:DW:90:ARG:NH1	1.92	0.85
36:DB:117:G:H5'	51:DS:55:ALA:HB1	1.58	0.85
51:BS:74:ALA:HB1	51:BS:103:GLU:HB2	1.59	0.85
35:DA:1077:A:H4'	45:DK:92:GLY:HA3	1.58	0.84
40:DF:84:VAL:CG1	40:DF:85:GLY:N	2.40	0.84
31:D6:47:THR:HG22	31:D6:48:VAL:H	1.42	0.84
24:CY:33:LEU:H	45:DK:29:GLN:NE2	1.75	0.84
54:BV:5:VAL:HG23	54:BV:37:VAL:O	1.76	0.84
51:DS:14:VAL:HG12	51:DS:15:ARG:N	1.92	0.84
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.58	0.84
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.57	0.84
1:AA:975:A:H4'	1:AA:976:G:H5''	1.56	0.84
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.91	0.84
8:CH:122:ARG:NH1	8:CH:122:ARG:HB2	1.90	0.84
51:BS:14:VAL:HG12	51:BS:15:ARG:N	1.92	0.84
35:DA:2126:A:N6	35:DA:2163:C:H4'	1.92	0.84
2:AB:187:LEU:HD22	2:AB:201:ILE:O	1.77	0.84
38:BD:25:THR:HG22	38:BD:82:ILE:H	1.42	0.84
1:CA:405:U:H3'	1:CA:406:G:H5'	1.60	0.84
1:AA:405:U:H3'	1:AA:406:G:H5'	1.59	0.84
49:BQ:110:THR:HB	49:BQ:112:GLU:HG2	1.59	0.84
1:CA:736:C:H2'	1:CA:737:A:H8	1.41	0.84
35:BA:747:U:H5'	55:BW:90:ARG:NH1	1.92	0.84
41:DG:63:ILE:HA	41:DG:143:GLU:HG3	1.57	0.84
41:BG:39:ILE:HG22	41:BG:157:ILE:HG22	1.59	0.84
35:DA:493:G:H2'	35:DA:494:G:H5''	1.57	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.08	0.84
35:BA:1686:C:H5'	35:BA:1686:C:H6	1.41	0.84
41:BG:46:ALA:HA	41:BG:51:ARG:HB3	1.57	0.84
50:BR:10:LEU:HB3	50:BR:17:ARG:CD	2.07	0.84
40:BF:66:PRO:O	40:BF:67:GLN:HB3	1.78	0.84
35:DA:654(L):G:H2'	35:DA:654(M):C:O4'	1.76	0.84
27:B2:10:LEU:HB3	27:B2:14:ARG:NH1	1.91	0.84
7:AG:23:VAL:HG13	7:AG:43:PHE:HE2	1.43	0.84
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.91	0.84
46:BN:42:TRP:HB3	53:BU:64:ARG:HD2	1.59	0.84
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.07	0.84
35:DA:549:G:C2'	35:DA:551:G:H5''	2.05	0.84
53:DU:92:ARG:O	53:DU:94:ASN:N	2.10	0.84
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.57	0.84
48:DP:30:THR:CG2	48:DP:31:ALA:H	1.90	0.84
33:B8:50:LEU:HD12	33:B8:51:ALA:N	1.93	0.84
35:BA:2305:A:H5''	41:BG:134:GLY:HA3	1.59	0.84
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.59	0.84
35:BA:1173:G:H3'	35:BA:1174:A:C5'	2.04	0.84
8:AH:122:ARG:NH1	8:AH:122:ARG:HB2	1.91	0.84
35:BA:1077:A:H4'	45:BK:92:GLY:HA3	1.60	0.84
24:CY:65:LEU:HA	24:CY:68:ASP:HB2	1.60	0.84
1:AA:736:C:H2'	1:AA:737:A:C8	2.12	0.84
39:BE:93:VAL:HG21	39:BE:180:ASN:HA	1.59	0.84
39:BE:181:LEU:HD21	52:BT:7:ILE:HG23	1.57	0.84
35:DA:17:G:H4'	53:DU:25:TRP:CH2	2.12	0.84
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.42	0.84
9:CI:63:ILE:HD11	9:CI:81:ILE:HD11	1.59	0.84
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.43	0.84
1:CA:736:C:H2'	1:CA:737:A:C8	2.12	0.84
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.42	0.84
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.78	0.84
20:CT:45:GLN:HB2	20:CT:91:LEU:HD13	1.60	0.84
31:B6:10:LEU:HD12	33:B8:34:TRP:CD1	2.13	0.84
35:BA:549:G:C2'	35:BA:551:G:H5''	2.07	0.84
40:BF:25:PRO:HB3	40:BF:119:ARG:HH11	1.43	0.84
40:BF:22:ALA:HA	40:BF:26:ALA:HB2	1.57	0.84
27:B2:2:LYS:CB	35:BA:97:C:H5''	2.08	0.84
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.59	0.84
9:AI:9:ARG:HG3	9:AI:14:VAL:HG22	1.58	0.84
12:AL:24:VAL:HG13	12:AL:98:TYR:HE2	1.40	0.84
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.77	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2630:G:H1'	35:BA:2894:G:H1'	1.59	0.84
58:BZ:97:GLU:HB3	58:BZ:125:LEU:HD11	1.59	0.84
35:DA:1173:G:H3'	35:DA:1174:A:C5'	2.05	0.84
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.42	0.84
4:CD:111:ALA:HB2	4:CD:120:LEU:HD12	1.59	0.84
35:BA:1107:G:OP1	44:BJ:58:UNK:HA	1.78	0.84
60:DI:4:ILE:HG21	60:DI:47:LEU:HD11	1.57	0.84
4:AD:111:ALA:HB2	4:AD:120:LEU:HD12	1.59	0.84
35:BA:361:G:C2'	35:BA:362:U:H5''	2.07	0.84
35:BA:996:A:H4'	53:BU:92:ARG:CD	2.08	0.84
52:DT:78:LEU:O	52:DT:78:LEU:HD23	1.76	0.84
54:BV:66:ARG:HG2	54:BV:88:ARG:HB3	1.59	0.84
3:CC:131:ARG:HH12	5:CE:50:GLU:HG2	1.43	0.84
42:BH:13:LYS:CD	42:BH:14:GLY:H	1.91	0.83
19:CS:63:THR:N	19:CS:66:MET:HE3	1.91	0.83
54:DV:38:LEU:O	54:DV:39:LEU:HD13	1.76	0.83
24:CY:68:ASP:OD2	24:CY:91:LEU:HD21	1.78	0.83
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.42	0.83
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.07	0.83
36:BB:95:C:H2'	36:BB:96:U:C6	2.13	0.83
22:CV:71:G:C2'	22:CV:72:C:H5''	2.08	0.83
49:DQ:141:GLN:O	58:DZ:98:MET:HB2	1.78	0.83
52:DT:28:VAL:HG12	52:DT:29:ARG:HD3	1.59	0.83
52:BT:13:ARG:HA	52:BT:13:ARG:NH1	1.91	0.83
51:DS:92:TYR:CD1	51:DS:93:LYS:N	2.44	0.83
27:B2:57:ILE:HG22	27:B2:61:LEU:HD21	1.60	0.83
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.57	0.83
22:CV:71:G:H2'	22:CV:72:C:C5'	2.07	0.83
57:DY:17:SER:HA	57:DY:71:LYS:HE2	1.59	0.83
35:DA:2701:C:C3'	35:DA:2702:U:H5''	1.97	0.83
35:DA:2206:G:N2	35:DA:2207:G:H5'	1.91	0.83
1:AA:555:C:H2'	1:AA:556:C:H6	1.42	0.83
51:BS:74:ALA:HB1	51:BS:103:GLU:CB	2.08	0.83
58:DZ:42:VAL:HG22	58:DZ:46:LYS:HE3	1.58	0.83
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	1.59	0.83
57:BY:17:SER:HA	57:BY:71:LYS:HE2	1.60	0.83
7:CG:23:VAL:HG13	7:CG:43:PHE:HE2	1.43	0.83
58:BZ:126:VAL:HG12	58:BZ:163:LEU:HA	1.60	0.83
24:CY:52:ALA:HA	24:CY:55:LEU:HB2	1.59	0.83
41:BG:72:ARG:HH11	41:BG:72:ARG:HG2	1.43	0.83
48:BP:59:LEU:HA	48:BP:61:ARG:CZ	2.08	0.83
35:BA:330:A:HO2'	35:BA:331:A:H8	1.26	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.59	0.83
35:BA:1187:G:H5''	54:BV:81:TYR:CE2	2.13	0.83
5:CE:76:ILE:HD11	5:CE:142:LEU:HD21	1.60	0.83
35:DA:2189:U:H2'	35:DA:2190:G:H5''	1.58	0.83
60:DI:77:LEU:HD12	60:DI:77:LEU:O	1.76	0.83
5:AE:76:ILE:HD11	5:AE:142:LEU:HD21	1.58	0.83
60:DI:77:LEU:HD11	60:DI:142:VAL:HA	1.61	0.83
46:BN:62:VAL:HG22	46:BN:66:LYS:HG3	1.58	0.83
40:DF:22:ALA:HA	40:DF:26:ALA:HB2	1.57	0.83
58:DZ:30:ASN:ND2	58:DZ:33:LEU:H	1.75	0.83
1:AA:955:U:H1'	1:AA:1227:A:N6	1.94	0.83
3:CC:70:VAL:HG12	3:CC:71:ALA:N	1.91	0.83
35:BA:2068:U:N3	35:BA:2430:A:H2	1.75	0.83
38:DD:25:THR:HG22	38:DD:82:ILE:H	1.43	0.83
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	1.58	0.83
35:DA:1011:G:H5''	53:DU:77:SER:OG	1.78	0.83
48:BP:71:VAL:HB	48:BP:72:PRO:HD3	1.61	0.83
45:DK:93:ARG:H	58:DZ:112:ARG:NH2	1.76	0.83
52:BT:28:VAL:HG13	52:BT:46:GLU:HA	1.59	0.83
48:BP:30:THR:CG2	48:BP:31:ALA:H	1.91	0.83
1:AA:328:C:H4'	1:AA:329:A:C5'	2.09	0.83
1:CA:955:U:H1'	1:CA:1227:A:N6	1.93	0.83
3:AC:53:ALA:HB2	3:AC:115:LEU:HD21	1.59	0.83
22:AV:71:G:H2'	22:AV:72:C:C5'	2.07	0.83
31:D6:28:ARG:O	31:D6:32:ASN:HB3	1.78	0.83
30:D5:3:LYS:HG3	30:D5:4:HIS:H	1.43	0.83
35:DA:361:G:C2'	35:DA:362:U:H5''	2.08	0.83
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.44	0.83
55:BW:75:TYR:CE1	55:BW:104:THR:HB	2.14	0.83
43:BI:72:LEU:HD12	43:BI:140:LEU:HD13	1.60	0.83
41:DG:114:ILE:HG12	41:DG:140:ILE:HD13	1.61	0.83
35:DA:1879:C:H2'	35:DA:1880:C:C5'	2.09	0.83
35:BA:2126:A:N6	35:BA:2163:C:H4'	1.93	0.83
35:DA:1210:A:H5''	35:DA:1211:U:H3'	1.59	0.83
24:CY:287:GLU:O	24:CY:291:ARG:HB2	1.78	0.83
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.59	0.83
24:CY:41:ASP:N	24:CY:42:PRO:HD2	1.94	0.83
55:DW:75:TYR:CE1	55:DW:104:THR:HB	2.13	0.83
43:BI:6:LEU:O	43:BI:7:GLU:HG3	1.77	0.83
52:BT:28:VAL:HG12	52:BT:29:ARG:HD3	1.59	0.82
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.79	0.82
25:D0:49:LYS:N	25:D0:80:HIS:HB3	1.93	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BV:38:LEU:O	54:BV:39:LEU:HD13	1.78	0.82
50:BR:10:LEU:CB	50:BR:17:ARG:HD2	2.09	0.82
4:AD:192:GLU:HB2	6:CF:16:GLN:NE2	1.94	0.82
20:CT:43:LEU:HB3	20:CT:48:LYS:HG3	1.59	0.82
1:AA:370:C:N4	1:AA:391:G:H1	1.76	0.82
28:B3:45:GLY:HA3	35:BA:851:U:O2'	1.78	0.82
1:AA:1149:C:H2'	1:AA:1150:U:H6	1.42	0.82
39:DE:52:LEU:HD23	39:DE:75:VAL:HB	1.60	0.82
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.61	0.82
25:B0:32:ARG:H	25:B0:35:ASN:ND2	1.77	0.82
51:DS:74:ALA:HB1	51:DS:103:GLU:CB	2.09	0.82
54:BV:28:GLU:HB3	54:BV:29:PRO:HD2	1.61	0.82
1:CA:370:C:H42	1:CA:391:G:H1	1.23	0.82
1:CA:370:C:N4	1:CA:391:G:H1	1.77	0.82
58:BZ:18:LEU:HD23	58:BZ:25:PRO:HG3	1.60	0.82
42:DH:13:LYS:CD	42:DH:14:GLY:H	1.92	0.82
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.43	0.82
33:B8:61:LEU:HD12	33:B8:62:LEU:HG	1.61	0.82
41:BG:111:LEU:HD22	41:BG:117:PHE:HE2	1.44	0.82
31:B6:47:THR:HG22	31:B6:48:VAL:H	1.42	0.82
22:AW:63:G:H2'	22:AW:64:A:O4'	1.79	0.82
4:AD:150:GLU:HA	4:AD:153:ARG:HG3	1.61	0.82
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.60	0.82
58:DZ:24:LEU:HD21	58:DZ:86:VAL:HG22	1.60	0.82
35:BA:2092:U:H4'	35:BA:2093:G:O5'	1.79	0.82
24:AY:15:GLY:HA3	24:AY:19:ILE:HG12	1.59	0.82
35:BA:1826:G:H4'	38:BD:242:ARG:HE	1.44	0.82
19:CS:4:SER:O	19:CS:5:LEU:HB2	1.79	0.82
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.09	0.82
30:B5:58:LEU:HD23	30:B5:59:GLU:H	1.41	0.82
54:DV:66:ARG:HG2	54:DV:88:ARG:HB3	1.59	0.82
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.62	0.82
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.44	0.82
38:BD:166:GLN:N	38:BD:166:GLN:HE21	1.77	0.82
41:BG:83:ARG:NH2	41:BG:84:LYS:HZ3	1.76	0.82
35:DA:271(M):G:C2'	35:DA:271(N):U:H5''	2.09	0.82
1:CA:328:C:H4'	1:CA:329:A:C5'	2.08	0.82
57:BY:8:LYS:HD2	57:BY:8:LYS:H	1.44	0.82
51:BS:14:VAL:HG12	51:BS:15:ARG:H	1.44	0.82
60:DI:94:ALA:HB1	60:DI:111:PRO:HB2	1.60	0.82
49:BQ:56:ARG:HB2	49:BQ:56:ARG:HH11	1.43	0.82
9:CI:9:ARG:HG3	9:CI:14:VAL:HG22	1.59	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:16:LEU:O	19:CS:20:LEU:HG	1.79	0.82
35:BA:2290:G:H5'	35:BA:2290:G:H8	1.44	0.82
33:D8:23:VAL:HG12	33:D8:46:ARG:HB3	1.61	0.82
35:DA:773:U:H4'	38:DD:47:GLY:HA3	1.62	0.82
53:BU:68:ALA:O	53:BU:71:GLN:HG2	1.80	0.82
45:DK:94:GLU:H	58:DZ:112:ARG:HH22	1.25	0.82
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.06	0.82
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.80	0.82
45:DK:18:THR:N	45:DK:19:PRO:HD2	1.94	0.82
22:AW:67:C:H2'	22:AW:68:C:C6	2.15	0.82
1:CA:979:C:C3'	1:CA:980:C:H5''	2.08	0.82
35:BA:2172:U:H4'	35:BA:2173:A:OP1	1.76	0.82
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.60	0.82
39:DE:47:VAL:HG12	39:DE:49:LEU:HD12	1.61	0.82
4:CD:108:LEU:HD11	4:CD:174:LEU:HD13	1.61	0.82
35:BA:620:G:H4'	35:BA:621:A:C5'	2.09	0.82
35:DA:2290:G:H8	35:DA:2290:G:H5'	1.43	0.82
35:BA:773:U:H4'	38:BD:47:GLY:HA3	1.62	0.82
33:B8:4:MET:HE3	33:B8:61:LEU:HD13	1.61	0.82
35:DA:814:C:H41	48:DP:27:HIS:CE1	1.98	0.82
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.61	0.82
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.62	0.82
35:BA:143(A):C:H4'	56:BX:38:GLU:OE1	1.79	0.82
35:BA:2189:U:H2'	35:BA:2190:G:H5''	1.60	0.82
26:B1:56:GLN:HA	26:B1:56:GLN:HE21	1.44	0.82
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.42	0.82
31:D6:14:THR:O	31:D6:49:HIS:HA	1.79	0.82
26:D1:88:LYS:HZ1	26:D1:92:LYS:HB2	1.43	0.82
20:AT:43:LEU:HA	20:AT:46:GLU:HB3	1.62	0.82
51:DS:74:ALA:HB1	51:DS:103:GLU:HB2	1.60	0.82
58:DZ:15:PRO:HB3	58:DZ:19:ARG:HH21	1.45	0.82
1:AA:116:A:H61	1:AA:313:A:H1'	1.43	0.82
35:DA:27:G:N2	35:DA:512:G:H2'	1.94	0.82
54:DV:28:GLU:HB3	54:DV:29:PRO:HD2	1.62	0.82
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.61	0.82
41:BG:76:SER:HA	41:BG:83:ARG:HB2	1.61	0.82
35:DA:1528(A):A:C2'	35:DA:1529:G:H5''	2.10	0.82
56:BX:12:VAL:HG12	56:BX:27:THR:O	1.80	0.82
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	1.80	0.82
22:CV:71:G:H2'	22:CV:72:C:H5''	1.61	0.82
35:DA:773:U:C4'	38:DD:47:GLY:HA3	2.10	0.82
3:AC:157:ILE:HD13	3:AC:166:GLU:HB2	1.60	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1107:G:OP1	44:DJ:58:UNK:HA	1.80	0.82
46:DN:62:VAL:HG22	46:DN:66:LYS:HG3	1.60	0.82
2:CB:71:VAL:HG12	2:CB:93:VAL:HB	1.62	0.82
1:AA:15:G:H4'	5:AE:24:ARG:HH12	1.43	0.82
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.61	0.82
50:DR:4:LEU:O	50:DR:4:LEU:HD13	1.80	0.82
31:B6:30:THR:HG22	31:B6:31:PRO:HD2	1.61	0.81
35:DA:2172:U:H4'	35:DA:2173:A:OP1	1.77	0.81
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	1.62	0.81
1:CA:555:C:H2'	1:CA:556:C:H6	1.43	0.81
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.42	0.81
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.59	0.81
38:DD:166:GLN:HE21	38:DD:166:GLN:N	1.77	0.81
26:D1:81:LYS:NZ	35:DA:271(H):G:H5'	1.94	0.81
35:DA:1174:A:H5''	35:DA:1175:U:H5'	1.62	0.81
24:CY:31:ARG:HD2	24:CY:31:ARG:H	1.43	0.81
9:AI:55:ALA:HA	9:AI:58:ARG:NH1	1.95	0.81
57:DY:48:ALA:O	57:DY:49:VAL:HG13	1.81	0.81
35:BA:650:C:H3'	35:BA:651:G:H5''	1.62	0.81
48:DP:71:VAL:HB	48:DP:72:PRO:HD3	1.62	0.81
1:CA:116:A:H61	1:CA:313:A:H1'	1.44	0.81
33:D8:50:LEU:HD12	33:D8:51:ALA:N	1.95	0.81
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.07	0.81
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.60	0.81
45:BK:18:THR:N	45:BK:19:PRO:HD2	1.94	0.81
53:DU:91:ASP:O	53:DU:95:LEU:HB2	1.79	0.81
56:DX:55:ASN:HD22	56:DX:80:ILE:HD11	1.44	0.81
2:AB:220:ASP:HA	2:AB:223:ILE:HG12	1.62	0.81
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.45	0.81
35:DA:2485:G:H5''	49:DQ:46:GLN:HE21	1.45	0.81
35:DA:650:C:H3'	35:DA:651:G:H5''	1.62	0.81
49:BQ:58:PHE:O	49:BQ:58:PHE:HD1	1.63	0.81
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.16	0.81
22:CW:30:G:H2'	22:CW:31:A:C8	2.15	0.81
33:B8:33:ASN:C	33:B8:33:ASN:HD22	1.81	0.81
26:D1:8:SER:HB3	26:D1:66:HIS:CE1	2.15	0.81
60:DI:48:GLU:HA	60:DI:51:ILE:HD12	1.62	0.81
35:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.79	0.81
1:AA:1228:C:OP1	13:AM:115:LYS:HE3	1.81	0.81
24:AY:113:GLU:HA	24:AY:175:ASN:H	1.46	0.81
29:B4:43:GLY:N	29:B4:60:GLU:HA	1.95	0.81
22:AW:24:G:H2'	22:AW:25:C:O4'	1.81	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:96:ARG:O	41:BG:99:MET:HB3	1.81	0.81
49:DQ:56:ARG:HH11	49:DQ:56:ARG:HB2	1.43	0.81
58:DZ:108:PRO:HA	58:DZ:142:SER:HA	1.61	0.81
40:DF:10:PRO:HG2	40:DF:13:SER:HB2	1.62	0.81
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.45	0.81
35:BA:1210:A:H5''	35:BA:1211:U:H3'	1.60	0.81
33:B8:23:VAL:HG12	33:B8:46:ARG:HB3	1.61	0.81
8:CH:84:ARG:HH12	8:CH:86:ILE:HD13	1.46	0.81
35:DA:212:G:O2'	35:DA:213:A:H5'	1.80	0.81
40:BF:10:PRO:HG2	40:BF:13:SER:HB2	1.59	0.81
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.62	0.81
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.80	0.81
35:BA:773:U:C4'	38:BD:47:GLY:HA3	2.10	0.81
35:BA:1879:C:H2'	35:BA:1880:C:C5'	2.10	0.81
58:BZ:166:SER:H	58:BZ:167:PRO:HA	1.43	0.81
42:BH:91:GLY:HA3	42:BH:160:LYS:HB3	1.63	0.81
42:DH:17:VAL:O	42:DH:45:VAL:HG22	1.79	0.81
42:BH:17:VAL:O	42:BH:45:VAL:HG22	1.80	0.81
52:BT:89:VAL:HG11	52:BT:91:ARG:NE	1.94	0.81
33:B8:62:LEU:HD13	35:BA:242:G:C5'	2.07	0.81
35:BA:925:C:H2'	35:BA:926:A:C5'	2.09	0.81
9:CI:55:ALA:HA	9:CI:58:ARG:NH1	1.95	0.81
31:B6:14:THR:O	31:B6:49:HIS:HA	1.79	0.81
22:AW:70:G:H2'	22:AW:71:G:H5''	1.61	0.81
30:D5:58:LEU:HD23	30:D5:59:GLU:N	1.96	0.81
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.46	0.81
33:D8:61:LEU:HD12	33:D8:62:LEU:HG	1.62	0.80
35:DA:996:A:H4'	53:DU:92:ARG:CD	2.11	0.80
40:DF:53:THR:HG23	40:DF:55:GLY:N	1.94	0.80
1:AA:979:C:C3'	1:AA:980:C:H5''	2.11	0.80
53:BU:91:ASP:O	53:BU:95:LEU:HB2	1.80	0.80
52:DT:35:LYS:HE2	52:DT:41:ARG:NE	1.96	0.80
20:AT:43:LEU:HB3	20:AT:48:LYS:HG3	1.61	0.80
22:CV:20:U:C2'	22:CV:21:A:H5'	2.12	0.80
1:CA:1071:C:H5''	5:CE:49:PRO:HG2	1.63	0.80
14:AN:22:THR:O	14:AN:23:ARG:HB2	1.81	0.80
35:DA:286:C:H2'	35:DA:287:C:C5'	2.11	0.80
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.63	0.80
5:CE:8:GLU:HG3	5:CE:34:VAL:HG22	1.61	0.80
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.46	0.80
37:BC:74:VAL:HB	37:BC:91:ALA:HB2	1.62	0.80
31:D6:15:GLU:OE1	31:D6:18:ARG:HG3	1.81	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CV:20:U:H2'	22:CV:21:A:H5'	1.62	0.80
53:DU:68:ALA:O	53:DU:71:GLN:HG2	1.81	0.80
1:AA:192:U:H4'	20:AT:103:GLY:HA2	1.62	0.80
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.62	0.80
60:DI:72:LEU:HD21	60:DI:107:ILE:HG12	1.62	0.80
2:AB:87:ARG:NH1	2:AB:223:ILE:HD13	1.97	0.80
56:BX:35:THR:O	56:BX:39:ILE:HG12	1.81	0.80
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.11	0.80
35:BA:17:G:H4'	53:BU:25:TRP:CH2	2.15	0.80
4:CD:150:GLU:HA	4:CD:153:ARG:HG3	1.63	0.80
1:AA:1498:U:H2'	23:AX:20:U:OP2	1.81	0.80
14:CN:12:ARG:C	14:CN:14:PRO:HD2	2.01	0.80
49:DQ:58:PHE:HD1	49:DQ:58:PHE:O	1.63	0.80
14:CN:22:THR:O	14:CN:23:ARG:HB2	1.82	0.80
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.12	0.80
35:BA:271(M):G:C2'	35:BA:271(N):U:H5''	2.10	0.80
57:BY:39:VAL:HG12	57:BY:40:GLU:H	1.44	0.80
14:AN:23:ARG:HH11	14:AN:30:ALA:HB2	1.44	0.80
58:DZ:157:LEU:HD12	58:DZ:157:LEU:H	1.43	0.80
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.62	0.80
25:B0:49:LYS:N	25:B0:80:HIS:HB3	1.97	0.80
51:BS:17:ARG:C	51:BS:19:LYS:H	1.82	0.80
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.46	0.80
1:CA:722:A:H2'	1:CA:724:G:C8	2.17	0.80
8:AH:11:THR:HG22	8:AH:15:ASN:HD21	1.46	0.80
33:D8:33:ASN:HD22	33:D8:33:ASN:C	1.82	0.80
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.45	0.80
41:DG:46:ALA:CA	41:DG:51:ARG:HD3	2.12	0.80
57:BY:27:VAL:HA	57:BY:28:LYS:NZ	1.97	0.80
60:DI:69:LYS:HE2	60:DI:136:VAL:HB	1.61	0.80
27:D2:3:LEU:HD23	27:D2:7:ARG:HE	1.46	0.80
2:CB:87:ARG:NH1	2:CB:223:ILE:HD13	1.96	0.80
2:AB:75:LYS:HD3	2:AB:75:LYS:O	1.80	0.80
19:AS:4:SER:O	19:AS:5:LEU:HB2	1.80	0.80
3:CC:86:VAL:O	3:CC:89:GLU:HB3	1.80	0.80
40:DF:46:ARG:HH11	40:DF:46:ARG:HG2	1.45	0.80
42:DH:122:THR:HB	42:DH:134:SER:HB2	1.63	0.80
4:AD:8:VAL:C	4:AD:10:ARG:H	1.83	0.80
40:BF:53:THR:HG23	40:BF:55:GLY:N	1.96	0.80
58:DZ:40:ASP:HB3	58:DZ:43:GLU:HB3	1.64	0.80
1:CA:192:U:H4'	20:CT:103:GLY:HA2	1.61	0.80
24:AY:72:LEU:HA	24:AY:75:LEU:HD23	1.64	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:8:VAL:C	4:CD:10:ARG:H	1.82	0.80
35:BA:2533:A:C2'	35:BA:2534:A:H5''	2.12	0.80
60:DI:133:HIS:ND1	60:DI:134:PRO:HD2	1.96	0.80
2:CB:75:LYS:O	2:CB:75:LYS:HD3	1.80	0.80
20:CT:43:LEU:HA	20:CT:46:GLU:HB3	1.63	0.80
40:DF:66:PRO:O	40:DF:67:GLN:HB3	1.81	0.80
35:BA:27:G:H22	35:BA:512:G:H2'	1.45	0.80
35:DA:896:A:O4'	58:DZ:146:ILE:HD12	1.81	0.80
35:BA:184:C:H2'	35:BA:185:U:C6	2.17	0.80
25:B0:23:VAL:HA	25:B0:38:VAL:HG22	1.64	0.80
49:DQ:63:LYS:NZ	58:DZ:175:VAL:HG21	1.97	0.80
16:AP:50:LYS:HD3	16:AP:51:VAL:N	1.96	0.80
35:DA:2118:U:H5	35:DA:2148:G:HO2'	1.30	0.80
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.82	0.80
24:AY:31:ARG:HH12	45:BK:34:ILE:HG21	1.45	0.80
51:BS:92:TYR:CD1	51:BS:93:LYS:N	2.46	0.80
52:BT:35:LYS:HE2	52:BT:41:ARG:NE	1.96	0.80
20:CT:89:ARG:O	20:CT:93:GLU:HB3	1.82	0.80
20:AT:89:ARG:O	20:AT:93:GLU:HB3	1.82	0.80
16:CP:50:LYS:HD3	16:CP:51:VAL:N	1.96	0.80
35:DA:1436:G:H2'	35:DA:1437:C:H5''	1.64	0.80
3:CC:157:ILE:HD13	3:CC:166:GLU:HB2	1.63	0.80
35:BA:1038:C:H3'	35:BA:1039:G:H5''	1.64	0.80
1:AA:434:U:H2'	1:AA:435:C:C6	2.17	0.80
10:AJ:22:LYS:HE2	10:AJ:90:LEU:HD22	1.64	0.80
35:DA:676:A:H8	35:DA:2069:G:H21	1.26	0.80
58:BZ:102:LEU:HD13	58:BZ:123:ASP:HA	1.64	0.80
28:D3:1:MET:HB3	28:D3:39:ASP:CB	2.12	0.80
51:DS:17:ARG:C	51:DS:19:LYS:H	1.82	0.80
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	1.64	0.80
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.46	0.80
20:AT:26:ASN:HD22	20:AT:27:LYS:N	1.80	0.80
27:B2:48:HIS:O	27:B2:52:ASP:HB2	1.81	0.80
35:BA:1174:A:H5''	35:BA:1175:U:H5'	1.63	0.79
26:D1:71:TYR:HB3	60:DI:38:LEU:HD21	1.64	0.79
2:CB:220:ASP:HA	2:CB:223:ILE:HG12	1.63	0.79
42:BH:126:PRO:HG2	42:BH:130:ARG:HD2	1.64	0.79
3:AC:86:VAL:O	3:AC:89:GLU:HB3	1.81	0.79
19:CS:6:LYS:HE3	19:CS:6:LYS:H	1.45	0.79
1:CA:370:C:H2'	1:CA:370:C:O2	1.82	0.79
25:D0:32:ARG:H	25:D0:35:ASN:ND2	1.79	0.79
60:DI:122:GLU:HG2	60:DI:123:LEU:H	1.47	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:51:ARG:HE	41:DG:51:ARG:CA	1.91	0.79
41:BG:115:ARG:HD3	41:BG:115:ARG:H	1.47	0.79
56:DX:35:THR:O	56:DX:39:ILE:HG12	1.81	0.79
36:DB:95:C:H2'	36:DB:96:U:C6	2.15	0.79
8:AH:84:ARG:HH12	8:AH:86:ILE:HD13	1.46	0.79
35:DA:92:A:H2'	35:DA:93:G:H8	1.48	0.79
24:AY:179:LEU:O	24:AY:182:PRO:HD2	1.81	0.79
14:CN:23:ARG:HD2	14:CN:28:GLY:O	1.82	0.79
39:BE:52:LEU:HD23	39:BE:75:VAL:HB	1.61	0.79
37:DC:77:ILE:HG13	37:DC:123:VAL:H	1.48	0.79
55:BW:29:LEU:HD21	55:BW:33:ARG:HH21	1.45	0.79
37:BC:77:ILE:HG13	37:BC:123:VAL:H	1.47	0.79
1:AA:423:G:H5''	35:DA:2139:C:OP1	1.82	0.79
14:CN:26:ARG:HD3	14:CN:43:CYS:HB3	1.64	0.79
36:DB:56:G:H5'	41:DG:27:ASN:ND2	1.97	0.79
4:CD:117:ALA:O	4:CD:121:VAL:HG23	1.82	0.79
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.82	0.79
40:BF:46:ARG:HH11	40:BF:46:ARG:HG2	1.47	0.79
1:AA:722:A:H2'	1:AA:724:G:C8	2.17	0.79
35:BA:2758:A:H2'	35:BA:2759:G:C5'	2.10	0.79
31:D6:10:LEU:HD12	33:D8:34:TRP:CD1	2.17	0.79
35:BA:875:G:C4'	58:BZ:170:THR:HG21	2.11	0.79
52:DT:28:VAL:O	52:DT:29:ARG:HB2	1.81	0.79
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.81	0.79
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	1.64	0.79
1:CA:1319:A:OP1	19:CS:5:LEU:HG	1.82	0.79
39:DE:57:LYS:HB3	39:DE:57:LYS:NZ	1.97	0.79
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.81	0.79
2:AB:71:VAL:HG12	2:AB:93:VAL:HB	1.62	0.79
14:AN:12:ARG:C	14:AN:14:PRO:HD2	2.03	0.79
58:DZ:117:LEU:HD23	58:DZ:117:LEU:H	1.47	0.79
41:DG:125:PHE:HB3	41:DG:166:ASP:OD2	1.83	0.79
40:DF:25:PRO:HB3	40:DF:119:ARG:HH11	1.47	0.79
35:BA:2302:G:H1'	41:BG:128:ARG:NE	1.98	0.79
54:BV:47:VAL:HG12	54:BV:49:THR:O	1.82	0.79
1:CA:59:A:H5'	1:CA:60:A:H5''	1.63	0.79
12:CL:47:LYS:CB	12:CL:48:PRO:HD3	2.13	0.79
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.17	0.79
1:AA:424:G:H2'	1:AA:425:G:H8	1.47	0.79
3:CC:129:ALA:HB3	3:CC:132:ARG:HG2	1.64	0.79
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.65	0.79
5:AE:53:LEU:H	5:AE:53:LEU:HD12	1.46	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:64:ILE:HD12	38:BD:64:ILE:H	1.47	0.79
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.82	0.79
58:BZ:117:LEU:H	58:BZ:117:LEU:HD23	1.48	0.79
8:CH:11:THR:HG22	8:CH:15:ASN:HD21	1.48	0.79
57:BY:42:VAL:HG12	57:BY:65:ALA:HB3	1.65	0.79
40:BF:25:PRO:HB3	40:BF:119:ARG:NH1	1.97	0.79
22:CW:39:U:H4'	22:CW:39:U:OP1	1.81	0.79
41:BG:15:VAL:O	41:BG:18:GLU:HB3	1.82	0.79
38:BD:242:ARG:N	38:BD:242:ARG:HD3	1.97	0.79
56:BX:30:VAL:HG11	56:BX:39:ILE:HD12	1.63	0.79
35:BA:811:U:H3'	48:BP:25:SER:O	1.83	0.79
35:BA:2855:C:H2'	35:BA:2856:C:H6	1.48	0.79
58:DZ:102:LEU:HD13	58:DZ:123:ASP:HA	1.64	0.79
35:DA:143:G:H1'	56:DX:37:THR:HG21	1.64	0.79
6:CF:68:PRO:HG3	6:CF:71:ARG:HH21	1.48	0.79
46:BN:48:MET:H	46:BN:48:MET:HE3	1.47	0.79
14:AN:26:ARG:HD3	14:AN:43:CYS:HB3	1.65	0.79
42:BH:122:THR:HB	42:BH:134:SER:HB2	1.63	0.79
12:CL:59:ARG:HH11	12:CL:65:GLU:HG2	1.45	0.79
41:DG:76:SER:HB2	41:DG:83:ARG:HB2	1.63	0.79
10:AJ:80:LYS:HD2	9:CI:95:LYS:HG2	1.64	0.79
38:DD:242:ARG:HD3	38:DD:242:ARG:N	1.98	0.79
8:CH:10:LEU:HD23	8:CH:10:LEU:H	1.48	0.79
8:CH:87:SER:HB2	8:CH:93:VAL:HB	1.65	0.79
51:BS:57:LYS:HG2	51:BS:58:LEU:H	1.47	0.79
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.13	0.79
41:DG:134:GLY:C	41:DG:135:LEU:HD12	2.03	0.79
5:CE:90:VAL:CG2	5:CE:121:LYS:HB3	2.12	0.79
35:BA:1528(A):A:C2'	35:BA:1529:G:H5''	2.13	0.79
41:DG:67:LYS:N	41:DG:67:LYS:HD3	1.98	0.79
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.48	0.79
35:DA:2438:U:O3'	35:DA:2439:A:H3'	1.83	0.79
1:CA:424:G:H2'	1:CA:425:G:H8	1.46	0.79
46:DN:48:MET:H	46:DN:48:MET:HE3	1.48	0.79
24:CY:109:PHE:HB2	24:CY:110:PRO:HD2	1.65	0.79
57:DY:42:VAL:CG1	57:DY:65:ALA:HB3	2.13	0.79
35:DA:2302:G:H21	41:DG:128:ARG:HD2	1.48	0.79
33:D8:61:LEU:H	33:D8:61:LEU:HD23	1.46	0.79
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.82	0.79
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.64	0.79
47:BO:53:LYS:HE2	47:BO:53:LYS:N	1.98	0.79
27:D2:31:GLU:O	27:D2:35:LEU:HB2	1.82	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:42:VAL:CG1	57:BY:65:ALA:HB3	2.13	0.79
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.47	0.79
1:CA:1417:G:N2	1:CA:1482:G:H2'	1.98	0.79
24:CY:96:LYS:O	24:CY:99:ASP:HB3	1.83	0.79
34:D9:25:VAL:HB	34:D9:34:GLN:HB2	1.63	0.79
28:B3:1:MET:HB3	28:B3:39:ASP:CB	2.13	0.78
41:DG:107:LEU:H	41:DG:107:LEU:HD23	1.47	0.78
51:BS:89:ARG:O	51:BS:92:TYR:HB3	1.83	0.78
57:DY:27:VAL:HA	57:DY:28:LYS:NZ	1.97	0.78
10:CJ:22:LYS:HE2	10:CJ:90:LEU:HD22	1.65	0.78
35:BA:1054:A:H2'	35:BA:1055:G:C8	2.18	0.78
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.18	0.78
35:BA:286:C:H2'	35:BA:287:C:C5'	2.12	0.78
46:DN:23:LEU:O	46:DN:23:LEU:HD23	1.84	0.78
22:AV:61:C:H2'	22:AV:62:C:H6	1.46	0.78
3:AC:129:ALA:HB3	3:AC:132:ARG:HG2	1.65	0.78
26:D1:80:LEU:HD22	26:D1:81:LYS:N	1.98	0.78
1:CA:558:G:H3'	1:CA:559:A:C5'	2.13	0.78
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.18	0.78
50:BR:2:ARG:N	50:BR:2:ARG:NE	2.31	0.78
1:AA:59:A:H5'	1:AA:60:A:H5''	1.63	0.78
12:AL:47:LYS:CB	12:AL:48:PRO:HD3	2.13	0.78
1:CA:1228:C:OP1	13:CM:115:LYS:HE3	1.83	0.78
35:BA:1547:C:O2'	35:BA:1548:C:H5'	1.84	0.78
25:D0:27:GLU:HB3	35:DA:856:C:H1'	1.64	0.78
35:DA:2134:A:N6	35:DA:2157:G:H1'	1.98	0.78
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.48	0.78
48:BP:23:PRO:HD2	48:BP:33:ARG:NH2	1.98	0.78
26:D1:5:CYS:HB3	26:D1:10:LYS:H	1.49	0.78
1:AA:558:G:H3'	1:AA:559:A:C5'	2.14	0.78
45:DK:29:GLN:HA	45:DK:29:GLN:HE21	1.49	0.78
24:CY:33:LEU:N	45:DK:29:GLN:HE22	1.80	0.78
37:DC:74:VAL:HB	37:DC:91:ALA:HB2	1.63	0.78
24:CY:138:ARG:HG3	24:CY:139:MET:N	1.98	0.78
35:DA:1270:C:H5''	35:DA:1271:G:O5'	1.83	0.78
2:CB:153:ARG:HG3	2:CB:154:LEU:H	1.49	0.78
41:BG:18:GLU:HG2	41:BG:175:LEU:HD13	1.62	0.78
5:AE:90:VAL:CG2	5:AE:121:LYS:HB3	2.14	0.78
19:AS:16:LEU:O	19:AS:20:LEU:HG	1.82	0.78
27:D2:47:ASN:O	27:D2:49:LYS:N	2.16	0.78
1:CA:722:A:H2'	1:CA:724:G:H8	1.48	0.78
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.18	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.66	0.78
35:DA:197:A:H5'	35:DA:197:A:C8	2.18	0.78
1:CA:1054:C:O2'	1:CA:1055:A:H5''	1.83	0.78
31:B6:9:LEU:HD23	31:B6:10:LEU:N	1.98	0.78
40:DF:8:GLN:CB	40:DF:126:VAL:HA	2.13	0.78
24:AY:65:LEU:HD13	24:AY:98:LEU:HD22	1.64	0.78
31:B6:19:ARG:CG	31:B6:20:ASN:H	1.95	0.78
35:BA:197:A:C8	35:BA:197:A:H5'	2.18	0.78
35:BA:143:G:H1'	56:BX:37:THR:HG21	1.64	0.78
7:AG:138:LYS:HE2	7:AG:142:GLU:OE2	1.84	0.78
11:AK:27:ASN:HB2	11:AK:55:LYS:HD2	1.66	0.78
35:DA:1709:U:H2'	35:DA:1710:C:H6	1.47	0.78
35:BA:92:A:H2'	35:BA:93:G:H8	1.48	0.78
22:AW:39:U:H2'	22:AW:40:C:H5''	1.64	0.78
55:BW:27:LYS:HE3	55:BW:31:GLU:HG2	1.66	0.78
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG12	1.64	0.78
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.12	0.78
1:CA:979:C:H3'	1:CA:980:C:C5'	2.14	0.78
26:D1:87:PRO:HG2	26:D1:88:LYS:H	1.48	0.78
14:CN:23:ARG:HH11	14:CN:30:ALA:HB2	1.46	0.78
35:BA:2485:G:H5''	49:BQ:46:GLN:HE21	1.47	0.78
60:DI:11:ASN:O	60:DI:12:LEU:HB3	1.83	0.78
11:CK:27:ASN:HB2	11:CK:55:LYS:HD2	1.66	0.78
35:BA:1011:G:H5''	53:BU:77:SER:OG	1.83	0.78
35:BA:2415:G:H4'	48:BP:66:GLY:HA3	1.65	0.78
35:BA:2438:U:O3'	35:BA:2439:A:H3'	1.84	0.78
35:DA:8:A:H2'	35:DA:9:U:C5	2.17	0.78
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.14	0.78
60:DI:83:ALA:HB2	60:DI:88:ILE:CD1	2.14	0.78
35:BA:2701:C:C3'	35:BA:2702:U:H5''	2.00	0.78
35:BA:2315:G:H21	41:BG:128:ARG:NH1	1.82	0.78
41:BG:97:ASP:CB	41:BG:98:ARG:HH21	1.95	0.78
52:DT:89:VAL:HG11	52:DT:91:ARG:NE	1.97	0.78
50:DR:10:LEU:HD13	50:DR:17:ARG:NH1	1.99	0.78
24:CY:31:ARG:HH21	45:DK:20:ALA:HB2	1.48	0.78
39:BE:49:LEU:HD12	39:BE:49:LEU:H	1.47	0.78
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.66	0.78
35:BA:8:A:H2'	35:BA:9:U:C5	2.18	0.78
12:AL:59:ARG:HH11	12:AL:65:GLU:HG2	1.47	0.78
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.18	0.78
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.18	0.78
35:BA:2287:A:H2	35:BA:2346:A:N1	1.82	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:88:LYS:HD2	24:AY:91:LEU:HD23	1.66	0.78
35:BA:2307:G:H21	35:BA:2308:G:H5''	1.46	0.78
39:DE:111:ARG:HA	50:DR:2:ARG:NE	1.99	0.78
50:DR:2:ARG:NE	50:DR:2:ARG:N	2.30	0.78
42:DH:126:PRO:HG2	42:DH:130:ARG:HD2	1.64	0.78
30:B5:58:LEU:HD23	30:B5:59:GLU:N	1.98	0.78
57:DY:42:VAL:HG12	57:DY:65:ALA:HB3	1.66	0.78
1:AA:1472:U:H2'	1:AA:1473:A:H8	1.49	0.78
35:DA:811:U:H3'	48:DP:25:SER:O	1.84	0.78
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.18	0.78
1:CA:1499:A:H5'	1:CA:1499:A:H8	1.47	0.78
41:BG:37:VAL:HG22	41:BG:159:VAL:HA	1.64	0.78
31:D6:19:ARG:CG	31:D6:20:ASN:H	1.96	0.78
42:DH:98:LEU:HB2	42:DH:125:VAL:HB	1.64	0.78
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.84	0.78
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.63	0.78
35:DA:2758:A:H2'	35:DA:2759:G:C5'	2.11	0.78
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.13	0.78
31:D6:37:ARG:CZ	31:D6:37:ARG:HB3	2.11	0.78
50:BR:24:GLN:HB3	50:BR:44:LEU:HD21	1.66	0.78
24:AY:79:LEU:HB3	24:AY:80:PRO:HD3	1.66	0.78
1:CA:434:U:H2'	1:CA:435:C:C6	2.19	0.78
11:AK:87:THR:HG22	11:AK:88:GLY:H	1.48	0.78
24:AY:153:VAL:HA	24:AY:169:ILE:HG22	1.66	0.78
27:D2:15:LYS:O	27:D2:16:LEU:HD23	1.84	0.78
38:DD:64:ILE:HD12	38:DD:64:ILE:H	1.48	0.78
35:BA:1436:G:H2'	35:BA:1437:C:H5''	1.66	0.78
60:DI:123:LEU:HD23	60:DI:124:GLY:N	2.00	0.77
40:DF:25:PRO:HB3	40:DF:119:ARG:NH1	1.99	0.77
41:DG:45:GLU:OE1	41:DG:53:LEU:HD11	1.84	0.77
58:BZ:108:PRO:CA	58:BZ:142:SER:HA	2.14	0.77
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.14	0.77
57:BY:26:LYS:HG2	57:BY:27:VAL:H	1.47	0.77
1:AA:1319:A:OP1	19:AS:5:LEU:HG	1.83	0.77
35:BA:2189:U:C2'	35:BA:2190:G:H5''	2.14	0.77
35:DA:2873:A:C2	50:DR:6:SER:HB3	2.18	0.77
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.65	0.77
42:BH:111:HIS:HD2	42:BH:112:PRO:HD2	1.47	0.77
1:AA:1121:U:H2'	1:AA:1122:U:H6	1.49	0.77
35:DA:2855:C:H2'	35:DA:2856:C:H6	1.48	0.77
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.19	0.77
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.15	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:28:VAL:O	52:BT:29:ARG:HB2	1.82	0.77
24:AY:54:ARG:HA	24:AY:57:ARG:HD2	1.66	0.77
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.42	0.77
24:AY:38:LEU:HD22	24:AY:38:LEU:H	1.49	0.77
26:D1:3:LYS:HG3	26:D1:4:VAL:N	1.99	0.77
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.65	0.77
40:DF:65:TRP:CZ3	40:DF:72:ARG:HB3	2.20	0.77
39:DE:3:GLY:HA3	39:DE:81:ILE:HG21	1.65	0.77
57:BY:89:PHE:O	57:BY:90:LEU:HB3	1.84	0.77
35:BA:2094:G:OP1	43:BI:22:LYS:HG3	1.85	0.77
51:DS:57:LYS:HG2	51:DS:58:LEU:H	1.49	0.77
34:B9:25:VAL:HB	34:B9:34:GLN:HB2	1.64	0.77
4:AD:30:LYS:C	4:AD:32:ALA:H	1.84	0.77
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.83	0.77
35:DA:184:C:H2'	35:DA:185:U:C6	2.18	0.77
45:BK:9:LYS:HA	45:BK:56:GLU:HA	1.66	0.77
46:DN:42:TRP:HB3	53:DU:64:ARG:HD2	1.65	0.77
45:DK:94:GLU:N	58:DZ:112:ARG:NH2	2.29	0.77
27:B2:69:ARG:NH2	35:BA:111:A:H5''	1.97	0.77
24:AY:33:LEU:HG	45:BK:29:GLN:CD	2.05	0.77
35:DA:1899:G:H22	35:DA:1902:C:N4	1.81	0.77
42:DH:44:VAL:HG12	42:DH:45:VAL:N	1.99	0.77
58:BZ:93:ASP:HA	58:BZ:130:PRO:HD2	1.64	0.77
3:AC:70:VAL:HG12	3:AC:71:ALA:N	1.99	0.77
5:AE:147:ASP:HB3	5:AE:150:ARG:HH21	1.48	0.77
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.66	0.77
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.20	0.77
33:B8:33:ASN:CA	33:B8:36:LYS:HD2	2.15	0.77
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	1.99	0.77
57:DY:39:VAL:HG12	57:DY:40:GLU:N	1.98	0.77
35:BA:1598:C:H5'	56:BX:36:LYS:HG3	1.67	0.77
1:CA:579:G:H5'	1:CA:728:A:H1'	1.65	0.77
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.84	0.77
35:BA:2134:A:N6	35:BA:2157:G:H1'	1.98	0.77
55:DW:27:LYS:HE3	55:DW:31:GLU:HG2	1.66	0.77
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.64	0.77
35:DA:993:G:OP1	53:DU:50:ARG:NH2	2.17	0.77
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.05	0.77
45:BK:20:ALA:HA	45:BK:24:GLY:HA3	1.65	0.77
48:BP:84:ASN:OD1	48:BP:116:GLY:HA3	1.85	0.77
42:BH:98:LEU:HB2	42:BH:125:VAL:HB	1.65	0.77
5:CE:53:LEU:HD12	5:CE:53:LEU:H	1.49	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:68:PRO:HG3	6:AF:71:ARG:HH21	1.49	0.77
24:CY:75:LEU:HD21	24:CY:84:ARG:HB3	1.66	0.77
1:AA:416:G:P	35:DA:2153:G:H4'	2.24	0.77
1:AA:1054:C:O2'	1:AA:1055:A:H5''	1.85	0.77
28:D3:2:PRO:C	28:D3:4:LEU:H	1.88	0.77
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.64	0.77
4:CD:30:LYS:C	4:CD:32:ALA:H	1.85	0.77
1:AA:1145:C:H5'	1:AA:1146:A:OP1	1.83	0.77
35:DA:2534:A:H5'	35:DA:2534:A:H8	1.48	0.77
35:BA:197:A:H5'	35:BA:197:A:H8	1.47	0.77
35:DA:330:A:C2	35:DA:1210:A:H2'	2.20	0.77
20:AT:89:ARG:HH21	20:AT:104:LEU:HD11	1.50	0.77
52:DT:115:ARG:HA	52:DT:115:ARG:HE	1.48	0.77
25:D0:53:MET:HB3	25:D0:59:LEU:HD23	1.63	0.77
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.84	0.77
27:D2:39:ALA:HA	27:D2:45:SER:HB3	1.65	0.77
35:DA:1038:C:H3'	35:DA:1039:G:H5''	1.67	0.77
59:D4:43:GLY:N	59:D4:60:GLU:HA	1.95	0.77
53:DU:88:ILE:HB	53:DU:90:VAL:HG23	1.67	0.77
5:CE:136:MET:HB3	5:CE:140:ARG:HH12	1.50	0.77
52:BT:35:LYS:CE	52:BT:41:ARG:HE	1.98	0.77
58:DZ:131:ARG:HG3	58:DZ:132:ASN:N	2.00	0.77
39:BE:111:ARG:HA	50:BR:2:ARG:NE	1.99	0.77
51:BS:106:ARG:HH11	51:BS:108:GLY:N	1.83	0.77
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.50	0.77
57:DY:49:VAL:HG12	57:DY:53:PRO:HG3	1.65	0.77
35:DA:285:C:H2'	35:DA:286:C:H5''	1.66	0.77
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.20	0.77
35:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.20	0.77
26:B1:18:ILE:HD13	35:BA:380:U:H5'	1.65	0.77
28:D3:11:SER:OG	28:D3:13:ILE:HD13	1.83	0.77
35:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.20	0.77
35:BA:2262:U:C2'	35:BA:2263:C:H5''	2.15	0.77
58:BZ:14:LYS:HD2	58:BZ:16:SER:HB3	1.67	0.77
24:CY:225:GLU:H	24:CY:225:GLU:CD	1.83	0.77
52:BT:23:ARG:O	52:BT:25:GLY:N	2.18	0.77
1:CA:413:G:H1'	1:CA:428:G:H21	1.50	0.77
35:DA:2287:A:H2	35:DA:2346:A:N1	1.82	0.77
22:CW:27:G:H1	22:CW:43:C:N4	1.81	0.77
24:AY:287:GLU:O	24:AY:291:ARG:HB2	1.85	0.77
57:DY:26:LYS:HG2	57:DY:27:VAL:H	1.48	0.77
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ3	1.50	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:62:LEU:N	48:DP:62:LEU:HD13	1.99	0.77
27:B2:4:SER:O	27:B2:8:LYS:HG2	1.85	0.77
56:DX:30:VAL:HG12	56:DX:31:HIS:N	1.98	0.77
22:CW:49:C:N4	22:CW:65:G:H1	1.83	0.77
35:DA:27:G:H22	35:DA:512:G:H2'	1.48	0.77
16:AP:51:VAL:HG12	16:AP:52:ASP:H	1.50	0.77
22:AW:38:A:H3'	22:AW:39:U:H5''	1.65	0.77
35:BA:2415:G:H4'	48:BP:66:GLY:CA	2.14	0.77
39:DE:78:LEU:CD2	39:DE:78:LEU:H	1.98	0.77
2:AB:153:ARG:HG3	2:AB:154:LEU:H	1.48	0.77
7:CG:115:ARG:HB2	7:CG:118:VAL:HG22	1.67	0.77
7:CG:138:LYS:HE2	7:CG:142:GLU:OE2	1.83	0.77
46:BN:23:LEU:O	46:BN:23:LEU:HD23	1.84	0.77
2:CB:178:ARG:NH2	2:CB:196:LEU:HA	1.99	0.77
58:BZ:109:ALA:HB3	58:BZ:145:GLU:HA	1.66	0.77
41:BG:82:LEU:HD23	41:BG:83:ARG:H	1.50	0.77
53:DU:92:ARG:HD3	54:DV:11:GLN:HG2	1.65	0.77
42:DH:91:GLY:HA3	42:DH:160:LYS:HB3	1.66	0.77
57:BY:8:LYS:CE	57:BY:72:VAL:HG23	2.13	0.77
32:B7:11:LYS:HE2	35:BA:686:G:H5''	1.65	0.77
51:BS:106:ARG:NH1	51:BS:108:GLY:H	1.81	0.77
35:DA:2167:U:H2'	35:DA:2168:G:C8	2.20	0.77
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.14	0.77
43:BI:92:VAL:CG1	43:BI:120:ILE:HB	2.15	0.77
26:B1:81:LYS:HE3	35:BA:271(G):C:O2'	1.84	0.77
31:B6:28:ARG:O	31:B6:32:ASN:HB3	1.84	0.77
28:B3:2:PRO:C	28:B3:4:LEU:H	1.86	0.77
50:BR:10:LEU:HD13	50:BR:17:ARG:NH1	2.00	0.77
35:DA:2189:U:C2'	35:DA:2190:G:H5''	2.13	0.77
22:AV:40:C:H2'	22:AV:41:C:H6	1.48	0.77
35:BA:118:A:H5'	35:BA:119:A:H8	1.48	0.77
45:DK:9:LYS:HA	45:DK:56:GLU:HA	1.66	0.77
33:B8:61:LEU:HD23	33:B8:61:LEU:H	1.50	0.76
35:BA:814:C:H41	48:BP:27:HIS:CE1	2.03	0.76
24:AY:20:PRO:HA	24:AY:23:GLU:CD	2.06	0.76
35:BA:2307:G:N2	35:BA:2308:G:H5''	2.00	0.76
8:CH:86:ILE:HG22	8:CH:87:SER:N	2.00	0.76
1:AA:825:G:H1'	8:AH:2:LEU:HD21	1.67	0.76
35:DA:2099:U:H2'	35:DA:2099:U:O2	1.85	0.76
42:DH:111:HIS:HD2	42:DH:112:PRO:HD2	1.48	0.76
35:BA:271(T):C:H5'	35:BA:271(T):C:H6	1.50	0.76
33:D8:33:ASN:CA	33:D8:36:LYS:HD2	2.14	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
60:DI:86:THR:HG22	60:DI:122:GLU:HG3	1.66	0.76
40:BF:26:ALA:O	40:BF:27:GLU:HG3	1.85	0.76
41:DG:39:ILE:HD11	41:DG:60:LEU:HD11	1.67	0.76
35:BA:1827:C:C2'	35:BA:1828:G:H5'	2.16	0.76
1:CA:1145:C:H5'	1:CA:1146:A:OP1	1.83	0.76
9:AI:28:VAL:HA	9:AI:63:ILE:O	1.85	0.76
5:CE:70:PRO:HB3	5:CE:144:THR:HG22	1.67	0.76
1:CA:1118:C:H6	1:CA:1118:C:H5'	1.49	0.76
45:BK:119:ASP:HB3	45:BK:121:GLU:OE2	1.85	0.76
35:BA:2167:U:H2'	35:BA:2168:G:C8	2.20	0.76
24:CY:120:ILE:HG12	24:CY:208:VAL:HG13	1.66	0.76
13:AM:108:ARG:HH11	13:AM:108:ARG:HA	1.50	0.76
48:DP:23:PRO:HD2	48:DP:33:ARG:HH21	1.49	0.76
41:BG:41:GLN:HG2	41:BG:155:MET:CB	2.15	0.76
57:BY:31:LEU:HB2	57:BY:32:PRO:HA	1.67	0.76
53:BU:92:ARG:HD3	54:BV:11:GLN:HG2	1.67	0.76
52:DT:35:LYS:CE	52:DT:41:ARG:HE	1.97	0.76
35:DA:197:A:H8	35:DA:197:A:H5'	1.47	0.76
1:CA:525:C:H2'	1:CA:526:C:H6	1.51	0.76
35:DA:1468:C:H2'	35:DA:1469:A:H8	1.50	0.76
50:DR:24:GLN:HB3	50:DR:44:LEU:HD21	1.67	0.76
26:D1:53:VAL:HG23	26:D1:74:VAL:HG13	1.66	0.76
41:BG:47:LYS:HA	41:BG:82:LEU:HD12	1.65	0.76
1:AA:10:A:OP2	5:AE:126:ARG:HD3	1.85	0.76
57:BY:28:LYS:HB2	57:BY:38:ILE:H	1.48	0.76
57:DY:28:LYS:HB2	57:DY:38:ILE:H	1.49	0.76
47:DO:53:LYS:HE3	47:DO:56:ASP:OD1	1.85	0.76
40:DF:181:LEU:HD11	40:DF:186:ILE:HD11	1.66	0.76
43:BI:14:ASP:CG	43:BI:15:VAL:H	1.88	0.76
42:BH:20:ALA:HB3	42:BH:23:ARG:HB2	1.68	0.76
35:BA:1709:U:H2'	35:BA:1710:C:H6	1.48	0.76
1:AA:299:G:H2'	1:AA:300:A:C8	2.20	0.76
1:CA:825:G:H1'	8:CH:2:LEU:HD21	1.65	0.76
2:AB:69:LEU:HB3	2:AB:162:ILE:HG22	1.67	0.76
3:AC:9:GLY:HA2	3:AC:12:LEU:HD23	1.66	0.76
49:BQ:132:VAL:HG11	58:BZ:81:ARG:HD2	1.66	0.76
30:D5:2:ALA:CA	35:DA:2015:A:H1'	2.15	0.76
35:DA:271(M):G:H5"	60:DI:57:ARG:HH22	1.49	0.76
45:DK:20:ALA:HA	45:DK:24:GLY:HA3	1.66	0.76
5:AE:70:PRO:HB3	5:AE:144:THR:HG22	1.66	0.76
1:AA:1145:C:H4'	1:AA:1146:A:C5'	2.16	0.76
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.20	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:106:ILE:O	38:BD:106:ILE:HD12	1.84	0.76
24:CY:288:ARG:HA	24:CY:291:ARG:CB	2.16	0.76
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.15	0.76
35:BA:184:C:H2'	35:BA:185:U:H6	1.48	0.76
16:CP:51:VAL:HG12	16:CP:52:ASP:H	1.49	0.76
1:AA:413:G:H1'	1:AA:428:G:H21	1.51	0.76
39:DE:48:GLN:HE21	39:DE:78:LEU:CD1	1.98	0.76
7:CG:108:ALA:O	7:CG:119:ARG:HD2	1.86	0.76
35:DA:141:A:C8	35:DA:1408:C:O2'	2.38	0.76
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.66	0.76
35:BA:1270:C:H5''	35:BA:1271:G:O5'	1.85	0.76
1:CA:1121:U:H2'	1:CA:1122:U:H6	1.48	0.76
25:D0:82:ARG:O	25:D0:82:ARG:HG3	1.84	0.76
35:BA:796:C:H2'	35:BA:797:C:C6	2.21	0.76
28:D3:2:PRO:HD2	28:D3:39:ASP:HB2	1.66	0.76
31:B6:37:ARG:CZ	31:B6:37:ARG:HB3	2.14	0.76
51:DS:106:ARG:NH1	51:DS:108:GLY:H	1.84	0.76
28:B3:44:ARG:O	28:B3:48:GLU:HG3	1.85	0.76
39:BE:57:LYS:HB3	39:BE:57:LYS:NZ	2.01	0.76
43:BI:77:LEU:HD22	43:BI:101:LEU:HD13	1.68	0.76
40:BF:127:GLU:OE1	40:BF:127:GLU:HA	1.84	0.76
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.68	0.76
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	1.66	0.76
42:BH:44:VAL:HG12	42:BH:45:VAL:N	2.00	0.76
53:DU:66:ASN:HD21	53:DU:70:ARG:HE	1.33	0.76
54:DV:47:VAL:HG12	54:DV:49:THR:O	1.86	0.76
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.50	0.76
24:CY:61:THR:HA	24:CY:64:SER:HB3	1.68	0.76
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.20	0.76
24:AY:142:ARG:O	24:AY:146:ARG:HG3	1.86	0.76
47:BO:98:VAL:HG12	47:BO:117:LEU:HB3	1.66	0.76
46:BN:25:ARG:HH11	46:BN:25:ARG:HG3	1.51	0.76
35:DA:1126:A:H4'	35:DA:1127:A:O5'	1.86	0.76
57:DY:46:LYS:HD3	57:DY:47:LYS:NZ	2.00	0.76
29:B4:50:THR:HG22	29:B4:51:TYR:H	1.51	0.76
41:DG:107:LEU:HD13	41:DG:178:PHE:CE1	2.21	0.76
48:BP:62:LEU:N	48:BP:62:LEU:HD13	2.01	0.76
27:D2:10:LEU:HD13	27:D2:14:ARG:NH2	2.01	0.76
32:D7:11:LYS:HE2	35:DA:686:G:H5''	1.67	0.76
20:CT:89:ARG:HH21	20:CT:104:LEU:HD11	1.51	0.76
8:AH:86:ILE:HG22	8:AH:87:SER:N	2.01	0.76
5:CE:51:VAL:O	5:CE:55:VAL:HG23	1.86	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:45:ALA:O	24:CY:48:VAL:HG22	1.85	0.76
22:CV:68:C:O2'	22:CV:69:G:H5'	1.85	0.76
35:DA:1403:C:H5''	35:DA:1471:A:H1'	1.68	0.76
35:BA:2099:U:O2	35:BA:2099:U:H2'	1.85	0.76
35:DA:1077:A:OP1	58:DZ:112:ARG:HA	1.85	0.76
35:DA:1827:C:C2'	35:DA:1828:G:H5'	2.16	0.76
57:DY:8:LYS:CE	57:DY:72:VAL:HG23	2.16	0.76
47:DO:53:LYS:N	47:DO:53:LYS:HE2	2.00	0.76
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.67	0.76
1:AA:1118:C:H5'	1:AA:1118:C:H6	1.50	0.76
34:D9:7:VAL:HG13	34:D9:34:GLN:HB3	1.68	0.76
45:DK:58:THR:HB	45:DK:66:THR:HG22	1.68	0.76
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.21	0.76
1:CA:532:A:C2	1:CA:1207:G:H1'	2.20	0.76
24:AY:249:VAL:HG22	24:AY:250:ARG:H	1.51	0.76
46:BN:38:HIS:O	53:BU:67:ALA:HB1	1.85	0.76
35:DA:1257:C:H4'	40:DF:83:PHE:CE2	2.21	0.76
52:DT:35:LYS:NZ	52:DT:41:ARG:HH21	1.84	0.76
12:AL:55:VAL:HG12	12:AL:56:ALA:N	1.99	0.76
22:CW:63:G:H2'	22:CW:64:A:O4'	1.86	0.76
35:DA:184:C:H2'	35:DA:185:U:H6	1.49	0.76
42:DH:25:LYS:HB3	42:DH:34:GLU:HG2	1.68	0.76
53:BU:24:TYR:HB2	53:BU:29:SER:HB3	1.66	0.76
5:CE:147:ASP:HB3	5:CE:150:ARG:HH21	1.49	0.76
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.85	0.76
53:DU:24:TYR:HB2	53:DU:29:SER:HB3	1.68	0.76
39:BE:78:LEU:CD2	39:BE:78:LEU:H	1.99	0.76
46:BN:67:LEU:O	46:BN:88:GLU:HG3	1.85	0.76
57:DY:76:CYS:HB3	57:DY:96:ILE:CD1	2.17	0.75
49:BQ:141:GLN:HA	58:BZ:53:ILE:HB	1.67	0.75
30:D5:40:LYS:NZ	30:D5:49:CYS:SG	2.59	0.75
35:DA:271(T):C:H6	35:DA:271(T):C:H5'	1.51	0.75
52:DT:23:ARG:O	52:DT:25:GLY:N	2.18	0.75
35:BA:1899:G:H22	35:BA:1902:C:N4	1.82	0.75
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.68	0.75
56:BX:30:VAL:HG11	56:BX:39:ILE:CD1	2.16	0.75
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.68	0.75
19:AS:36:ARG:HA	19:AS:71:LEU:HB2	1.68	0.75
35:BA:2138:C:H1'	35:BA:2154:G:N2	2.01	0.75
35:BA:896:A:O4'	58:BZ:146:ILE:HD12	1.86	0.75
10:AJ:80:LYS:HZ2	9:CI:95:LYS:HB3	1.50	0.75
22:AW:5:G:H22	22:AW:68:C:N4	1.83	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:128:HIS:O	46:DN:130:HIS:N	2.19	0.75
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.86	0.75
57:DY:89:PHE:O	57:DY:90:LEU:HB3	1.86	0.75
39:DE:181:LEU:HD21	52:DT:7:ILE:CG2	2.16	0.75
1:AA:370:C:H2'	1:AA:370:C:O2	1.85	0.75
51:BS:74:ALA:HB1	51:BS:103:GLU:HG3	1.68	0.75
35:BA:285:C:H2'	35:BA:286:C:H5''	1.68	0.75
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.48	0.75
39:BE:117:MET:O	39:BE:118:LYS:HB2	1.84	0.75
1:CA:17:U:H2'	1:CA:18:C:C6	2.21	0.75
35:BA:2199:A:H5'	35:BA:2200:C:OP2	1.86	0.75
31:B6:11:LEU:HD21	31:B6:26:ASN:N	2.01	0.75
33:D8:33:ASN:ND2	33:D8:34:TRP:N	2.32	0.75
35:DA:2702:U:H5	35:DA:2705:A:H61	1.34	0.75
35:BA:2791:C:N4	35:BA:2803:C:H42	1.83	0.75
2:CB:54:THR:O	2:CB:58:ILE:HG12	1.86	0.75
38:BD:92:ILE:HG21	38:BD:104:TYR:CD2	2.21	0.75
33:B8:48:PHE:HE2	35:BA:650:C:OP1	1.70	0.75
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.50	0.75
45:DK:121:GLU:O	45:DK:125:ARG:HG3	1.87	0.75
47:DO:87:ILE:HG22	47:DO:88:ASN:O	1.84	0.75
27:B2:43:GLN:O	27:B2:44:LEU:HG	1.86	0.75
35:BA:1126:A:H4'	35:BA:1127:A:O5'	1.85	0.75
1:AA:918:A:H2'	1:AA:919:A:C8	2.21	0.75
55:DW:29:LEU:HD21	55:DW:33:ARG:HH21	1.52	0.75
58:DZ:166:SER:HB2	58:DZ:167:PRO:C	2.06	0.75
23:AX:23:G:N1	24:AY:128:GLU:HG3	1.99	0.75
2:AB:178:ARG:NH2	2:AB:196:LEU:HA	1.99	0.75
48:DP:84:ASN:OD1	48:DP:116:GLY:HA3	1.86	0.75
35:DA:494:G:H8	35:DA:494:G:H5'	1.50	0.75
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.86	0.75
35:DA:2533:A:C2'	35:DA:2534:A:H5''	2.16	0.75
39:BE:69:LYS:NZ	39:BE:89:ASP:HA	2.01	0.75
57:BY:49:VAL:HG12	57:BY:53:PRO:HG3	1.67	0.75
38:DD:106:ILE:HD12	38:DD:106:ILE:O	1.86	0.75
35:DA:1054:A:H2'	35:DA:1055:G:C8	2.22	0.75
33:D8:48:PHE:HE2	35:DA:650:C:OP1	1.69	0.75
1:AA:722:A:H2'	1:AA:724:G:H8	1.47	0.75
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.20	0.75
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.49	0.75
28:D3:45:GLY:HA3	35:DA:851:U:O2'	1.86	0.75
35:DA:847:U:H2'	35:DA:848:G:H5''	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:16:ALA:O	8:AH:19:VAL:HG22	1.86	0.75
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.66	0.75
41:BG:114:ILE:HG12	41:BG:140:ILE:HD13	1.69	0.75
35:DA:1022:G:N2	35:DA:1142(A):A:H2	1.83	0.75
39:BE:3:GLY:HA3	39:BE:81:ILE:HG21	1.68	0.75
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.02	0.75
46:BN:46:VAL:HG13	46:BN:48:MET:HG3	1.68	0.75
45:DK:119:ASP:HB3	45:DK:121:GLU:OE2	1.85	0.75
13:CM:90:LEU:C	13:CM:92:HIS:H	1.90	0.75
50:BR:4:LEU:O	50:BR:4:LEU:HD13	1.85	0.75
1:CA:918:A:H2'	1:CA:919:A:C8	2.21	0.75
36:BB:117:G:H5'	51:BS:55:ALA:HB1	1.69	0.75
50:DR:104:ARG:CB	50:DR:104:ARG:HH11	1.99	0.75
53:DU:27:LEU:HD23	53:DU:27:LEU:N	2.02	0.75
58:DZ:109:ALA:O	58:DZ:110:GLY:C	2.24	0.75
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.21	0.75
24:CY:33:LEU:H	45:DK:29:GLN:HE22	1.31	0.75
19:AS:63:THR:N	19:AS:66:MET:HE3	1.99	0.75
1:CA:1117:G:H5'	1:CA:1117:G:H8	1.52	0.75
51:DS:89:ARG:HD2	51:DS:92:TYR:H	1.51	0.75
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.01	0.75
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.01	0.75
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.66	0.75
34:B9:7:VAL:HG13	34:B9:34:GLN:HB3	1.69	0.75
35:BA:1711:C:H2'	35:BA:1712:C:H6	1.51	0.75
1:AA:1291:G:H4'	9:AI:39:GLY:HA3	1.68	0.75
1:CA:299:G:H2'	1:CA:300:A:C8	2.22	0.75
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.68	0.75
50:BR:104:ARG:CB	50:BR:104:ARG:HH11	1.99	0.75
25:B0:53:MET:HB3	25:B0:59:LEU:HD23	1.67	0.75
24:CY:31:ARG:NH2	45:DK:20:ALA:HB2	2.02	0.75
59:D4:50:THR:HG22	59:D4:51:TYR:H	1.52	0.75
56:DX:30:VAL:HG11	56:DX:39:ILE:HD12	1.69	0.75
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.35	0.75
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.85	0.75
22:AW:40:C:H2'	22:AW:41:C:C6	2.22	0.75
1:CA:630:G:H2'	1:CA:631:G:H5''	1.69	0.75
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.85	0.75
1:AA:673:G:H2'	1:AA:674:G:C8	2.21	0.75
35:DA:2415:G:H4'	48:DP:66:GLY:HA3	1.67	0.75
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.21	0.75
38:DD:235:GLY:O	38:DD:237:GLU:N	2.18	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:51:ARG:O	52:DT:61:PHE:HA	1.87	0.75
8:CH:16:ALA:O	8:CH:19:VAL:HG22	1.87	0.75
57:DY:96:ILE:HG22	57:DY:97:ARG:H	1.51	0.75
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.01	0.75
35:DA:2307:G:H21	35:DA:2308:G:H5''	1.50	0.75
48:DP:147:LEU:CD1	48:DP:148:LEU:H	1.99	0.75
35:BA:2534:A:H5'	35:BA:2534:A:H8	1.51	0.75
35:DA:2138:C:H1'	35:DA:2154:G:N2	2.00	0.75
1:AA:17:U:H2'	1:AA:18:C:C6	2.22	0.75
48:DP:64:LYS:O	48:DP:66:GLY:N	2.20	0.75
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.68	0.75
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.22	0.75
7:AG:84:ASN:ND2	22:AW:33:U:H4'	2.02	0.75
42:DH:54:ARG:HG2	42:DH:54:ARG:HH11	1.51	0.75
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.50	0.75
47:BO:10:VAL:HG21	47:BO:16:ALA:O	1.86	0.75
1:CA:503:C:H2'	1:CA:504:C:H6	1.51	0.75
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.21	0.75
35:DA:1064:C:H4'	45:DK:89:HIS:CD2	2.22	0.75
58:DZ:144:LEU:HD11	58:DZ:150:LEU:HD12	1.66	0.75
48:DP:23:PRO:HD2	48:DP:33:ARG:NH2	2.02	0.75
35:BA:2702:U:H5	35:BA:2705:A:H61	1.33	0.75
1:CA:1145:C:H4'	1:CA:1146:A:C5'	2.16	0.75
1:CA:10:A:OP2	5:CE:126:ARG:HD3	1.87	0.75
35:DA:1779:U:C5	35:DA:1784:A:N7	2.55	0.75
39:BE:47:VAL:HG12	39:BE:49:LEU:HD12	1.68	0.75
39:DE:73:GLU:HG3	39:DE:74:PRO:HD2	1.68	0.75
14:AN:26:ARG:HD2	14:AN:47:LEU:HD11	1.69	0.75
45:BK:12:LEU:HD21	45:BK:23:VAL:HG13	1.69	0.75
35:DA:2415:G:H4'	48:DP:66:GLY:CA	2.17	0.75
35:DA:2262:U:C2'	35:DA:2263:C:H5''	2.16	0.75
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.22	0.75
48:DP:65:ARG:H	48:DP:65:ARG:HD2	1.52	0.75
35:BA:141:A:C8	35:BA:1408:C:O2'	2.39	0.75
35:BA:1785:A:OP1	35:BA:1982:C:H5'	1.85	0.75
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.02	0.74
31:B6:15:GLU:OE1	31:B6:18:ARG:HG3	1.87	0.74
53:BU:90:VAL:HG12	53:BU:91:ASP:N	2.01	0.74
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.01	0.74
22:CW:66:U:H2'	22:CW:67:C:C6	2.22	0.74
57:BY:87:LYS:O	57:BY:88:LYS:HB2	1.87	0.74
12:CL:83:VAL:HG21	12:CL:100:ILE:CG2	2.16	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:134:ILE:O	39:BE:134:ILE:HG12	1.87	0.74
1:CA:617:G:H1	1:CA:623:C:H42	1.35	0.74
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.52	0.74
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.69	0.74
45:DK:60:TYR:HD2	45:DK:64:SER:HB3	1.52	0.74
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.45	0.74
24:AY:31:ARG:HG2	45:BK:25:PRO:HG3	1.67	0.74
45:BK:25:PRO:O	45:BK:29:GLN:HG2	1.87	0.74
19:AS:63:THR:HG22	19:AS:66:MET:HE2	1.69	0.74
38:DD:92:ILE:HG21	38:DD:104:TYR:CD2	2.21	0.74
39:DE:49:LEU:H	39:DE:49:LEU:HD12	1.51	0.74
24:CY:190:VAL:HB	24:CY:315:VAL:HG12	1.67	0.74
39:DE:32:PRO:O	39:DE:34:VAL:HG13	1.86	0.74
39:DE:48:GLN:HG2	39:DE:78:LEU:HD12	1.70	0.74
47:BO:105:GLU:HA	47:BO:108:GLU:HG3	1.68	0.74
26:B1:29:GLY:HA3	35:BA:2396:G:O2'	1.87	0.74
57:BY:76:CYS:HB3	57:BY:96:ILE:CD1	2.16	0.74
57:DY:47:LYS:HD2	57:DY:47:LYS:N	2.02	0.74
40:DF:22:ALA:CA	40:DF:26:ALA:HB2	2.17	0.74
41:BG:76:SER:HB2	41:BG:83:ARG:CG	2.17	0.74
25:D0:41:ARG:CD	25:D0:41:ARG:H	1.98	0.74
24:CY:231:VAL:CG1	24:CY:246:ASP:HB3	2.16	0.74
48:BP:88:LEU:HD11	48:BP:95:VAL:HG21	1.69	0.74
39:BE:48:GLN:HE21	39:BE:78:LEU:CD1	2.00	0.74
42:BH:115:VAL:HG13	42:BH:148:ILE:HD11	1.69	0.74
35:DA:1711:C:H2'	35:DA:1712:C:H6	1.52	0.74
45:BK:60:TYR:HD2	45:BK:64:SER:HB3	1.51	0.74
11:AK:84:VAL:HG23	11:AK:110:ASP:HA	1.69	0.74
25:D0:43:THR:HG22	35:DA:2331:G:O2'	1.87	0.74
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.69	0.74
1:CA:411:A:H62	1:CA:413:G:H21	1.36	0.74
60:DI:54:GLN:HA	60:DI:57:ARG:HD2	1.69	0.74
35:BA:1257:C:H4'	40:BF:83:PHE:CE2	2.21	0.74
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.48	0.74
56:BX:30:VAL:HG12	56:BX:31:HIS:N	2.01	0.74
13:CM:108:ARG:HA	13:CM:108:ARG:HH11	1.50	0.74
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.51	0.74
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.69	0.74
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.21	0.74
1:CA:1471:G:O2'	1:CA:1472:U:H5'	1.86	0.74
12:AL:83:VAL:HG21	12:AL:100:ILE:CG2	2.16	0.74
7:AG:115:ARG:HB2	7:AG:118:VAL:HG22	1.69	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:69:ARG:HH12	35:DA:111:A:C5'	2.00	0.74
41:BG:133:LEU:HD11	41:BG:157:ILE:HD11	1.69	0.74
45:BK:29:GLN:HA	45:BK:29:GLN:HE21	1.50	0.74
2:CB:172:ILE:CD1	2:CB:172:ILE:H	1.98	0.74
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.53	0.74
19:CS:79:THR:O	19:CS:80:TYR:HB2	1.85	0.74
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.02	0.74
47:BO:87:ILE:HG22	47:BO:88:ASN:O	1.86	0.74
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.22	0.74
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.68	0.74
30:D5:16:ARG:HD2	30:D5:20:ARG:HH21	1.50	0.74
24:CY:269:ILE:HD13	49:DQ:79:LEU:HD13	1.68	0.74
52:BT:115:ARG:HA	52:BT:115:ARG:HE	1.51	0.74
1:AA:630:G:H2'	1:AA:631:G:H5''	1.69	0.74
11:CK:84:VAL:HG23	11:CK:110:ASP:HA	1.69	0.74
24:AY:10:LEU:HD12	24:AY:11:GLU:N	2.03	0.74
54:DV:46:VAL:HG22	54:DV:47:VAL:N	2.01	0.74
35:BA:330:A:C2	35:BA:1210:A:H2'	2.20	0.74
2:CB:71:VAL:HG23	2:CB:164:VAL:HG13	1.70	0.74
24:AY:188:ARG:HB2	24:AY:310:GLN:HG2	1.70	0.74
1:AA:579:G:H5'	1:AA:728:A:H1'	1.68	0.74
38:BD:235:GLY:O	38:BD:237:GLU:N	2.21	0.74
24:CY:306:GLU:HG3	24:CY:307:TRP:H	1.51	0.74
2:CB:102:LEU:HB3	2:CB:180:LEU:HD12	1.69	0.74
42:BH:13:LYS:HD3	42:BH:14:GLY:N	1.95	0.74
1:AA:979:C:H3'	1:AA:980:C:C5'	2.17	0.74
31:D6:15:GLU:CG	31:D6:18:ARG:HE	2.00	0.74
22:CW:48:C:H4'	22:CW:49:C:H5''	1.69	0.74
60:DI:92:VAL:O	60:DI:120:ILE:HG22	1.87	0.74
48:BP:65:ARG:H	48:BP:65:ARG:HD2	1.51	0.74
22:AV:21:A:H2'	22:AV:22:G:H5''	1.68	0.74
8:CH:51:VAL:HG11	8:CH:60:ARG:HH11	1.53	0.74
24:AY:251:VAL:HG11	24:AY:279:LEU:HD12	1.68	0.74
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.69	0.74
39:BE:23:VAL:HG12	39:BE:173:VAL:HG21	1.69	0.74
1:CA:673:G:H2'	1:CA:674:G:C8	2.21	0.74
40:BF:38:ARG:O	40:BF:42:ALA:HB2	1.87	0.74
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.70	0.74
40:BF:8:GLN:CB	40:BF:126:VAL:HA	2.17	0.74
57:BY:46:LYS:HD3	57:BY:47:LYS:NZ	2.03	0.74
24:AY:74:GLU:O	24:AY:78:GLU:HG3	1.86	0.74
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.68	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:115:LEU:HA	48:DP:134:ALA:HB2	1.69	0.74
42:DH:159:GLU:HG3	42:DH:160:LYS:H	1.53	0.74
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.67	0.74
22:CW:8:U:O2	22:CW:8:U:H2'	1.84	0.74
24:CY:113:GLU:HA	24:CY:175:ASN:N	2.02	0.74
57:DY:49:VAL:HA	57:DY:53:PRO:HG3	1.69	0.74
60:DI:10:GLU:O	60:DI:12:LEU:HD23	1.88	0.74
1:AA:638:G:O2'	1:AA:639:G:H5'	1.88	0.74
35:DA:405:U:H3'	35:DA:406:G:H5'	1.69	0.74
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.22	0.74
35:DA:1785:A:OP1	35:DA:1982:C:H5'	1.87	0.74
39:DE:131:ALA:HB1	39:DE:133:LYS:HG3	1.70	0.74
39:DE:134:ILE:HG12	39:DE:134:ILE:O	1.86	0.74
57:BY:16:ALA:HA	57:BY:21:LYS:HD2	1.70	0.74
1:CA:491:G:H2'	1:CA:492:G:H8	1.51	0.74
47:DO:10:VAL:HG21	47:DO:16:ALA:O	1.87	0.74
35:DA:953:A:O2'	35:DA:954:G:H5'	1.86	0.74
35:BA:150:C:H2'	35:BA:151:C:C6	2.23	0.74
4:AD:59:ARG:HA	4:AD:59:ARG:NE	2.02	0.74
41:DG:76:SER:CB	41:DG:84:LYS:H	2.01	0.74
9:CI:28:VAL:HA	9:CI:63:ILE:O	1.87	0.74
5:CE:126:ARG:HH11	5:CE:126:ARG:HG3	1.51	0.74
35:DA:494:G:H21	55:DW:57:ASN:HD21	1.33	0.74
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.52	0.74
48:BP:64:LYS:O	48:BP:66:GLY:N	2.20	0.74
1:CA:826:C:H2'	1:CA:827:U:H6	1.53	0.74
35:BA:272:G:H4'	35:BA:272(B):G:OP1	1.87	0.74
35:DA:614(A):U:H5''	35:DA:614(B):G:OP2	1.88	0.74
42:DH:115:VAL:HG13	42:DH:148:ILE:HD11	1.69	0.74
30:B5:20:ARG:HH12	55:BW:15:ARG:NH2	1.86	0.74
53:BU:27:LEU:N	53:BU:27:LEU:HD23	2.02	0.74
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.52	0.74
3:CC:9:GLY:HA2	3:CC:12:LEU:HD23	1.70	0.74
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.03	0.74
33:B8:33:ASN:ND2	33:B8:34:TRP:N	2.33	0.74
30:B5:2:ALA:CA	35:BA:2015:A:H1'	2.16	0.74
35:DA:2307:G:N2	35:DA:2308:G:H5''	2.03	0.74
52:DT:88:ILE:CG2	52:DT:89:VAL:HG23	2.18	0.74
60:DI:75:LEU:CB	60:DI:141:LYS:HB2	2.17	0.74
39:BE:47:VAL:O	39:BE:80:GLU:HA	1.88	0.74
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.53	0.74
1:CA:1291:G:H4'	9:CI:39:GLY:HA3	1.70	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:154:LYS:HE3	39:BE:154:LYS:HA	1.70	0.74
40:DF:102:PRO:HB2	40:DF:105:VAL:HG23	1.70	0.74
35:DA:1358:G:O2'	35:DA:1359:A:H5''	1.88	0.74
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.70	0.74
40:BF:132:VAL:HG13	40:BF:133:ASN:H	1.53	0.74
11:CK:87:THR:HG22	11:CK:88:GLY:H	1.51	0.74
47:DO:98:VAL:HG12	47:DO:117:LEU:HB3	1.70	0.74
35:DA:769:G:O2'	35:DA:770:G:H5'	1.88	0.74
40:BF:7:TYR:HD2	40:BF:16:GLY:H	1.32	0.74
22:AW:17:C:H5	35:BA:2181:G:H5'	1.52	0.73
33:B8:32:LEU:HD11	35:BA:2392:A:P	2.28	0.73
60:DI:38:LEU:H	60:DI:38:LEU:CD1	1.98	0.73
22:AW:5:G:H1'	22:AW:69:G:N2	2.03	0.73
58:BZ:111:VAL:HG13	58:BZ:112:ARG:N	2.03	0.73
42:BH:125:VAL:HG12	42:BH:125:VAL:O	1.88	0.73
22:AW:23:A:H2'	22:AW:24:G:H8	1.52	0.73
57:DY:87:LYS:O	57:DY:88:LYS:HB2	1.86	0.73
11:CK:29:ILE:HG22	11:CK:44:SER:CB	2.18	0.73
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.88	0.73
4:CD:173:TRP:O	4:CD:186:LEU:HB2	1.87	0.73
1:CA:625:G:H2'	1:CA:626:U:C6	2.23	0.73
35:DA:601:C:H5''	40:DF:108:LYS:HZ1	1.53	0.73
35:BA:1468:C:H2'	35:BA:1469:A:H8	1.52	0.73
35:DA:272:G:H4'	35:DA:272(B):G:OP1	1.87	0.73
45:BK:58:THR:HB	45:BK:66:THR:HG22	1.67	0.73
2:AB:92:TYR:CE2	2:AB:151:GLY:HA3	2.23	0.73
35:BA:1037:G:H1	35:BA:1118:C:H42	1.36	0.73
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.52	0.73
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.00	0.73
24:AY:33:LEU:O	24:AY:36:PRO:HD3	1.88	0.73
5:AE:136:MET:HB3	5:AE:140:ARG:HH12	1.51	0.73
35:BA:2127:G:HO2'	35:BA:2173:A:H2	1.35	0.73
24:CY:65:LEU:HA	24:CY:68:ASP:CB	2.17	0.73
2:CB:84:GLU:HG3	2:CB:215:LEU:HB3	1.68	0.73
38:BD:25:THR:HG21	38:BD:81:ALA:HB1	1.70	0.73
39:DE:69:LYS:NZ	39:DE:89:ASP:HA	2.03	0.73
58:DZ:10:ARG:H	58:DZ:37:VAL:HA	1.53	0.73
28:D3:44:ARG:O	28:D3:48:GLU:HG3	1.89	0.73
25:D0:23:VAL:HA	25:D0:38:VAL:HG22	1.70	0.73
55:DW:82:LEU:HB2	55:DW:98:LYS:HB2	1.67	0.73
15:CO:23:GLY:O	15:CO:24:SER:HB3	1.88	0.73
41:DG:129:GLY:CA	41:DG:163:ALA:HB3	2.18	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:DZ:163:LEU:HD23	58:DZ:164:ALA:N	2.03	0.73
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.18	0.73
31:D6:15:GLU:OE1	31:D6:18:ARG:CD	2.36	0.73
54:DV:19:LYS:HZ2	54:DV:20:LEU:H	1.35	0.73
35:BA:2117:A:H61	35:BA:2172:U:H3	1.36	0.73
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.70	0.73
35:DA:2123:G:H2'	35:DA:2124:G:C8	2.22	0.73
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.04	0.73
39:DE:81:ILE:O	39:DE:82:ARG:HB2	1.86	0.73
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.89	0.73
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.17	0.73
39:DE:117:MET:O	39:DE:118:LYS:HB2	1.86	0.73
35:BA:847:U:H2'	35:BA:848:G:H5''	1.70	0.73
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.69	0.73
35:DA:1547:C:O2'	35:DA:1548:C:H5'	1.87	0.73
8:CH:30:ARG:NH1	8:CH:30:ARG:HB3	2.03	0.73
1:CA:1504:G:OP1	1:CA:1507:A:H4'	1.88	0.73
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.02	0.73
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.18	0.73
35:BA:2123:G:H2'	35:BA:2124:G:C8	2.23	0.73
2:AB:54:THR:O	2:AB:58:ILE:HG12	1.87	0.73
22:AW:23:A:H2'	22:AW:24:G:C8	2.23	0.73
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.88	0.73
42:DH:20:ALA:HB3	42:DH:23:ARG:HB2	1.70	0.73
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.87	0.73
35:DA:882:G:H2'	35:DA:883:G:H8	1.53	0.73
25:B0:27:GLU:HB3	35:BA:856:C:H1'	1.69	0.73
38:BD:155:LEU:HD23	38:BD:177:LEU:HD22	1.69	0.73
60:DI:109:ILE:HB	60:DI:130:TYR:OH	1.89	0.73
42:BH:25:LYS:HB3	42:BH:34:GLU:HG2	1.70	0.73
45:DK:93:ARG:NH2	58:DZ:112:ARG:HH11	1.86	0.73
40:DF:26:ALA:O	40:DF:27:GLU:HG3	1.88	0.73
53:DU:90:VAL:HG12	53:DU:91:ASP:N	2.02	0.73
45:DK:25:PRO:O	45:DK:29:GLN:HG2	1.89	0.73
46:DN:13:TRP:O	46:DN:135:PRO:HD2	1.89	0.73
35:DA:1019:U:O2'	35:DA:1021:A:H2	1.72	0.73
35:DA:1115:G:H2'	35:DA:1116:C:C6	2.22	0.73
2:AB:84:GLU:HG3	2:AB:215:LEU:HB3	1.68	0.73
40:BF:181:LEU:HD11	40:BF:186:ILE:HD11	1.69	0.73
46:DN:46:VAL:HG13	46:DN:48:MET:HG3	1.69	0.73
24:AY:249:VAL:HG22	24:AY:250:ARG:N	2.03	0.73
1:AA:826:C:H2'	1:AA:827:U:H6	1.52	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:796:C:H2'	35:DA:797:C:C6	2.24	0.73
35:DA:991:C:H5'	35:DA:991:C:H6	1.53	0.73
34:D9:11:CYS:HB3	34:D9:13:LYS:H	1.53	0.73
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.54	0.73
60:DI:75:LEU:HD13	60:DI:141:LYS:HD2	1.71	0.73
42:DH:88:LEU:O	42:DH:89:ILE:HG23	1.89	0.73
8:AH:109:ILE:HD11	8:AH:120:THR:HG21	1.71	0.73
53:BU:88:ILE:HB	53:BU:90:VAL:HG23	1.71	0.73
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.70	0.73
1:CA:1468:A:H2'	1:CA:1469:G:O4'	1.87	0.73
1:AA:1411:C:O2'	1:AA:1412:C:H5'	1.88	0.73
1:CA:404:U:H2'	1:CA:405:U:C6	2.23	0.73
50:DR:24:GLN:HE22	50:DR:36:THR:HG21	1.53	0.73
1:AA:16:A:O2'	1:AA:17:U:H5'	1.88	0.73
47:BO:15:GLY:O	47:BO:46:ALA:HB1	1.87	0.73
35:BA:1358:G:O2'	35:BA:1359:A:H5''	1.89	0.73
30:D5:29:THR:HG21	35:DA:2814:C:O2'	1.89	0.73
39:DE:23:VAL:HG12	39:DE:173:VAL:HG21	1.70	0.73
57:DY:31:LEU:HB2	57:DY:32:PRO:HA	1.70	0.73
55:BW:82:LEU:HB2	55:BW:98:LYS:HB2	1.70	0.73
13:AM:90:LEU:C	13:AM:92:HIS:H	1.90	0.73
35:BA:882:G:H2'	35:BA:883:G:H8	1.54	0.73
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.23	0.73
36:BB:8:U:H5'	36:BB:8:U:H6	1.53	0.73
35:DA:598:G:H5'	48:DP:15:ARG:HB3	1.71	0.73
48:BP:23:PRO:HB2	48:BP:33:ARG:CG	2.18	0.73
48:DP:147:LEU:HD12	48:DP:148:LEU:HD22	1.71	0.73
38:DD:244:ARG:HD2	38:DD:245:PRO:HB3	1.71	0.73
1:AA:1117:G:H5'	1:AA:1117:G:H8	1.52	0.73
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.88	0.73
47:BO:53:LYS:HE3	47:BO:56:ASP:OD1	1.88	0.73
4:AD:173:TRP:O	4:AD:186:LEU:HB2	1.87	0.73
22:CW:30:G:H2'	22:CW:31:A:H8	1.52	0.73
47:DO:105:GLU:HA	47:DO:108:GLU:HG3	1.69	0.73
28:B3:11:SER:OG	28:B3:13:ILE:HD13	1.88	0.73
26:D1:11:ARG:NH2	35:DA:1365:A:O2'	2.20	0.73
22:AV:68:C:H2'	22:AV:69:G:H5''	1.71	0.73
58:DZ:8:TYR:CD1	58:DZ:8:TYR:N	2.57	0.73
24:CY:251:VAL:HG21	24:CY:276:LEU:HD23	1.68	0.73
45:DK:98:ARG:HD2	45:DK:139:VAL:HG22	1.71	0.73
33:D8:31:HIS:O	33:D8:33:ASN:N	2.22	0.73
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.24	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:124:SER:HB2	41:BG:131:TYR:CD1	2.24	0.73
35:DA:1494:A:O2'	35:DA:1495:A:H5''	1.88	0.73
25:B0:51:VAL:N	25:B0:62:LEU:HD12	2.04	0.73
57:DY:8:LYS:HD2	57:DY:8:LYS:N	2.03	0.73
9:AI:99:LEU:HB3	9:AI:101:PHE:CE1	2.24	0.73
35:BA:662:G:OP1	48:BP:18:ARG:HD2	1.88	0.73
11:AK:29:ILE:HG22	11:AK:44:SER:CB	2.18	0.73
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.49	0.73
48:DP:88:LEU:HD11	48:DP:95:VAL:HG21	1.69	0.73
22:AW:38:A:C3'	22:AW:39:U:H5''	2.18	0.73
51:DS:58:LEU:HD12	51:DS:59:LYS:HG3	1.71	0.73
7:CG:80:VAL:HB	7:CG:83:ALA:HB3	1.70	0.73
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.89	0.73
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.87	0.73
35:BA:2468:G:H2'	35:BA:2476:A:N7	2.04	0.73
27:D2:69:ARG:HH12	35:DA:111:A:H5''	1.53	0.73
37:BC:168:THR:CA	37:BC:173:ALA:HB2	2.16	0.73
41:BG:111:LEU:HD11	41:BG:120:LEU:HD11	1.71	0.73
4:CD:15:GLU:HG3	4:CD:63:LYS:HE2	1.71	0.73
24:AY:33:LEU:H	45:BK:29:GLN:HE22	1.34	0.73
48:BP:112:LEU:HD23	48:BP:113:LYS:N	2.03	0.73
38:BD:244:ARG:HD2	38:BD:245:PRO:HB3	1.70	0.73
48:BP:58:THR:O	48:BP:61:ARG:NE	2.17	0.73
1:AA:491:G:H2'	1:AA:492:G:H8	1.52	0.73
4:AD:135:LEU:H	4:AD:135:LEU:HD22	1.53	0.73
35:DA:662:G:OP1	48:DP:18:ARG:HD2	1.88	0.73
1:CA:1329:A:H5'	13:CM:29:ARG:HD2	1.71	0.73
22:CV:1:G:H2'	22:CV:2:C:H6	1.53	0.73
46:DN:38:HIS:O	53:DU:67:ALA:HB1	1.88	0.73
57:DY:16:ALA:HA	57:DY:21:LYS:HD2	1.71	0.73
35:DA:150:C:H2'	35:DA:151:C:C6	2.23	0.73
10:CJ:81:THR:C	10:CJ:83:GLU:H	1.92	0.73
46:DN:67:LEU:O	46:DN:88:GLU:HG3	1.89	0.73
1:CA:1008:C:H2'	1:CA:1009:G:O4'	1.89	0.73
57:BY:47:LYS:HD2	57:BY:47:LYS:N	2.04	0.73
52:BT:88:ILE:HG22	52:BT:89:VAL:N	2.03	0.73
52:BT:88:ILE:CG2	52:BT:89:VAL:HG23	2.18	0.73
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.54	0.73
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.08	0.73
24:AY:102:TYR:O	24:AY:105:THR:HG22	1.89	0.73
4:AD:15:GLU:HG3	4:AD:63:LYS:HE2	1.70	0.73
52:DT:88:ILE:HG22	52:DT:89:VAL:N	2.03	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:51:VAL:N	25:D0:62:LEU:HD12	2.04	0.73
25:D0:41:ARG:HD2	25:D0:41:ARG:N	2.02	0.73
42:BH:88:LEU:O	42:BH:89:ILE:HG23	1.88	0.73
42:DH:89:ILE:HD12	42:DH:90:LYS:H	1.53	0.73
41:DG:67:LYS:CD	41:DG:67:LYS:H	2.01	0.73
58:BZ:79:ARG:O	58:BZ:80:ARG:HB2	1.87	0.73
7:AG:108:ALA:O	7:AG:119:ARG:HD2	1.88	0.73
1:AA:503:C:H2'	1:AA:504:C:H6	1.53	0.73
35:DA:2468:G:H2'	35:DA:2476:A:N7	2.04	0.73
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.71	0.73
26:D1:86:SER:O	26:D1:90:ILE:HG12	1.88	0.72
24:AY:87:LEU:O	24:AY:87:LEU:HD23	1.89	0.72
41:DG:58:GLN:O	41:DG:61:ALA:HB3	1.89	0.72
41:BG:7:LEU:HA	41:BG:10:LYS:HB3	1.71	0.72
48:BP:115:LEU:HA	48:BP:134:ALA:HB2	1.69	0.72
54:BV:21:ARG:HB3	54:BV:91:TYR:HB2	1.71	0.72
1:AA:404:U:H2'	1:AA:405:U:C6	2.24	0.72
2:AB:71:VAL:HG23	2:AB:164:VAL:HG13	1.71	0.72
51:BS:58:LEU:HD12	51:BS:59:LYS:HG3	1.69	0.72
35:BA:1711:C:H2'	35:BA:1712:C:C6	2.24	0.72
3:AC:134:ILE:HG21	3:AC:168:ALA:HB3	1.68	0.72
20:CT:26:ASN:HD22	20:CT:27:LYS:N	1.87	0.72
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.89	0.72
28:B3:31:LEU:HD12	35:BA:1157:G:O2'	1.89	0.72
30:B5:2:ALA:HA	35:BA:2015:A:C1'	2.16	0.72
30:D5:2:ALA:HA	35:DA:2015:A:C1'	2.15	0.72
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.52	0.72
42:BH:159:GLU:HG3	42:BH:160:LYS:H	1.54	0.72
4:CD:135:LEU:H	4:CD:135:LEU:HD22	1.54	0.72
7:AG:23:VAL:HG13	7:AG:43:PHE:CE2	2.24	0.72
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.71	0.72
1:CA:32:A:H2'	1:CA:33:A:C8	2.25	0.72
35:BA:405:U:H3'	35:BA:406:G:H5'	1.71	0.72
36:DB:8:U:H5'	36:DB:8:U:H6	1.54	0.72
26:B1:92:LYS:HZ1	35:BA:153:C:H5'	1.54	0.72
36:DB:48:A:H4'	51:DS:95:HIS:HD2	1.54	0.72
33:B8:4:MET:CE	33:B8:61:LEU:HD13	2.18	0.72
48:DP:23:PRO:HB2	48:DP:33:ARG:CG	2.18	0.72
24:CY:16:TYR:CA	24:CY:55:LEU:HD11	2.17	0.72
10:CJ:38:ILE:HG13	10:CJ:71:LEU:HB3	1.70	0.72
27:D2:7:ARG:H	27:D2:7:ARG:HD2	1.54	0.72
35:DA:2791:C:N4	35:DA:2803:C:H42	1.86	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2036:C:C6	35:DA:2036:C:H5'	2.20	0.72
35:BA:2873:A:C2	50:BR:6:SER:HB3	2.23	0.72
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.03	0.72
22:CV:41:C:H2'	22:CV:42:C:H5'	1.71	0.72
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	1.72	0.72
39:BE:101:ARG:HH21	39:BE:171:GLU:N	1.88	0.72
58:DZ:111:VAL:HG22	58:DZ:112:ARG:H	1.54	0.72
30:D5:40:LYS:CE	30:D5:46:CYS:H	2.02	0.72
40:BF:23:ASP:O	40:BF:115:ALA:HA	1.89	0.72
24:AY:33:LEU:HD22	24:AY:36:PRO:HG2	1.71	0.72
48:BP:147:LEU:CD1	48:BP:148:LEU:H	2.01	0.72
31:D6:15:GLU:OE2	31:D6:43:CYS:SG	2.47	0.72
35:BA:1779:U:C5	35:BA:1784:A:N7	2.56	0.72
8:CH:109:ILE:HD11	8:CH:120:THR:HG21	1.71	0.72
48:DP:58:THR:O	48:DP:61:ARG:NE	2.17	0.72
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.70	0.72
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.72
39:BE:1:MET:HG2	39:BE:83:ASP:O	1.88	0.72
1:AA:1342:C:H1'	9:AI:124:GLN:HE22	1.55	0.72
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.19	0.72
42:BH:41:MET:HG3	42:BH:55:PRO:HD3	1.71	0.72
36:DB:12:C:H4'	36:DB:13:A:OP1	1.89	0.72
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.04	0.72
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.71	0.72
40:DF:132:VAL:HG13	40:DF:133:ASN:H	1.55	0.72
1:AA:617:G:H1	1:AA:623:C:H42	1.34	0.72
36:DB:65:C:O2'	36:DB:66:A:H5'	1.89	0.72
40:DF:2:LYS:HE3	40:DF:25:PRO:HB2	1.70	0.72
9:CI:99:LEU:HB3	9:CI:101:PHE:CE1	2.24	0.72
35:DA:494:G:C8	35:DA:494:G:H5'	2.24	0.72
53:BU:66:ASN:HD21	53:BU:70:ARG:HE	1.35	0.72
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.71	0.72
51:BS:85:VAL:HG23	51:BS:106:ARG:HB2	1.69	0.72
35:BA:654(M):C:H2'	35:BA:654(N):G:H8	1.54	0.72
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.52	0.72
1:AA:625:G:H2'	1:AA:626:U:C6	2.24	0.72
39:DE:131:ALA:C	39:DE:133:LYS:H	1.93	0.72
35:BA:833:U:H2'	35:BA:834:C:C6	2.25	0.72
2:CB:69:LEU:HB3	2:CB:162:ILE:HG22	1.69	0.72
43:BI:81:VAL:HG21	43:BI:144:VAL:HG13	1.71	0.72
30:B5:29:THR:HG21	35:BA:2814:C:O2'	1.89	0.72
22:AV:72:C:H5'	22:AV:72:C:C6	2.23	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:22:ALA:CA	40:BF:26:ALA:HB2	2.19	0.72
33:D8:4:MET:CE	33:D8:61:LEU:HD13	2.20	0.72
4:AD:13:ARG:O	4:AD:15:GLU:N	2.23	0.72
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.17	0.72
48:BP:147:LEU:HD12	48:BP:148:LEU:HD22	1.72	0.72
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.69	0.72
35:DA:493:G:C3'	35:DA:494:G:H5''	2.19	0.72
51:BS:89:ARG:HB3	51:BS:92:TYR:HB3	1.72	0.72
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.56	0.72
27:D2:2:LYS:HE2	27:D2:52:ASP:OD1	1.89	0.72
38:DD:102:LYS:C	38:DD:103:ARG:HG2	2.10	0.72
1:CA:1329:A:C5'	13:CM:29:ARG:HD2	2.19	0.72
39:DE:47:VAL:O	39:DE:80:GLU:HA	1.89	0.72
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.25	0.72
60:DI:92:VAL:HB	60:DI:120:ILE:CG2	2.18	0.72
51:DS:74:ALA:HB1	51:DS:103:GLU:HG3	1.71	0.72
50:DR:24:GLN:NE2	50:DR:36:THR:HG21	2.04	0.72
35:BA:1693:U:H1'	38:BD:14:ARG:HH12	1.55	0.72
35:DA:1717:G:H3'	35:DA:1718:G:H5''	1.71	0.72
58:BZ:10:ARG:HB3	58:BZ:36:LYS:HB3	1.71	0.72
15:AO:50:HIS:O	15:AO:53:HIS:HB3	1.90	0.72
37:BC:82:LYS:O	37:BC:86:ALA:HB3	1.89	0.72
46:BN:13:TRP:O	46:BN:135:PRO:HD2	1.89	0.72
35:BA:1022:G:N2	35:BA:1142(A):A:H2	1.86	0.72
51:DS:106:ARG:HH11	51:DS:108:GLY:N	1.87	0.72
24:CY:40:ASN:C	24:CY:42:PRO:HD2	2.10	0.72
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.24	0.72
45:BK:121:GLU:O	45:BK:125:ARG:HG3	1.88	0.72
42:DH:41:MET:HG3	42:DH:55:PRO:HD3	1.70	0.72
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.24	0.72
35:DA:2473:U:O2	35:DA:2473:U:H2'	1.90	0.72
6:AF:61:LEU:O	6:AF:62:TRP:HB2	1.88	0.72
29:B4:42:CYS:SG	29:B4:46:ASN:HB3	2.29	0.72
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.24	0.72
26:B1:81:LYS:HG2	35:BA:271(H):G:H4'	1.71	0.72
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.19	0.72
41:BG:156:ASP:O	41:BG:157:ILE:HG23	1.90	0.72
28:B3:2:PRO:HD2	28:B3:39:ASP:CB	2.20	0.72
55:BW:4:LYS:HG2	55:BW:106:ILE:HG22	1.71	0.72
54:DV:21:ARG:HB3	54:DV:91:TYR:HB2	1.72	0.72
35:DA:1116:C:C2'	35:DA:1117:G:H5'	2.20	0.72
39:DE:2:LYS:HE2	39:DE:95:ILE:HG22	1.71	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:48:GLN:HG2	39:BE:78:LEU:HD12	1.71	0.72
35:DA:1981:A:H5''	35:DA:1982:C:OP2	1.90	0.72
3:CC:88:ARG:NH1	3:CC:101:LEU:HB3	2.03	0.72
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.04	0.72
50:BR:81:ASP:O	50:BR:82:GLU:HB2	1.88	0.72
35:BA:2148:G:O2'	35:BA:2149:G:H5'	1.89	0.72
35:BA:1396:U:H2'	35:BA:1396:U:O2	1.90	0.72
31:D6:26:ASN:HD22	31:D6:32:ASN:HD21	1.36	0.72
2:CB:178:ARG:HH21	8:CH:74:PRO:HG3	1.54	0.72
41:BG:131:TYR:O	41:BG:159:VAL:HG12	1.88	0.72
10:AJ:22:LYS:NZ	10:AJ:90:LEU:HD13	2.05	0.72
1:AA:411:A:H62	1:AA:413:G:H21	1.35	0.72
45:DK:12:LEU:HD21	45:DK:23:VAL:HG13	1.69	0.72
35:DA:1711:C:H2'	35:DA:1712:C:C6	2.24	0.72
35:DA:877:U:O2'	35:DA:878:A:H5''	1.90	0.72
1:AA:1008:C:H2'	1:AA:1009:G:O4'	1.90	0.72
7:AG:80:VAL:HB	7:AG:83:ALA:HB3	1.70	0.72
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.04	0.72
35:DA:118:A:H5'	35:DA:119:A:H8	1.54	0.72
28:D3:31:LEU:HD12	35:DA:1157:G:O2'	1.89	0.72
35:BA:1494:A:O2'	35:BA:1495:A:H5''	1.90	0.72
4:CD:31:CYS:SG	4:CD:31:CYS:O	2.47	0.72
51:BS:89:ARG:HD2	51:BS:92:TYR:H	1.55	0.72
35:BA:1064:C:H4'	45:BK:89:HIS:CD2	2.21	0.72
2:CB:80:ILE:HG13	2:CB:80:ILE:O	1.90	0.72
38:BD:102:LYS:C	38:BD:103:ARG:HG2	2.10	0.72
8:AH:87:SER:HB2	8:AH:93:VAL:HB	1.70	0.72
50:DR:12:ARG:HE	50:DR:16:HIS:CE1	2.07	0.72
43:BI:71:ILE:HG23	43:BI:72:LEU:HD22	1.72	0.72
35:BA:620:G:H4'	35:BA:621:A:H5''	1.72	0.72
50:BR:24:GLN:HE22	50:BR:36:THR:HG21	1.55	0.72
35:BA:2118:U:H5	35:BA:2148:G:O2'	1.73	0.72
59:D4:42:CYS:SG	59:D4:46:ASN:HB3	2.29	0.72
40:DF:7:TYR:HD2	40:DF:16:GLY:H	1.35	0.72
1:CA:638:G:O2'	1:CA:639:G:H5'	1.90	0.72
35:BA:57:C:O2'	35:BA:58:G:H5'	1.90	0.72
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.90	0.72
35:BA:769:G:O2'	35:BA:770:G:H5'	1.89	0.72
35:BA:1223:G:H5'	35:BA:1224:C:OP2	1.90	0.72
35:DA:1037:G:H1	35:DA:1118:C:H42	1.35	0.72
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.19	0.71
35:BA:2571:C:H5'	35:BA:2572:A:C5'	2.18	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1145:C:H4'	1:CA:1146:A:H5''	1.70	0.71
52:BT:50:ILE:H	52:BT:50:ILE:HD12	1.55	0.71
52:BT:40:THR:O	52:BT:41:ARG:HB2	1.90	0.71
52:BT:35:LYS:NZ	52:BT:41:ARG:HH21	1.86	0.71
58:DZ:95:PRO:HA	58:DZ:128:VAL:O	1.89	0.71
1:AA:1130:A:H1'	1:AA:1146:A:C2	2.25	0.71
1:AA:1145:C:H4'	1:AA:1146:A:H5''	1.71	0.71
35:DA:2117:A:H61	35:DA:2172:U:H3	1.38	0.71
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.57	0.71
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.24	0.71
1:CA:22:G:H2'	1:CA:23:C:C6	2.24	0.71
53:BU:34:LYS:HA	53:BU:34:LYS:HE2	1.71	0.71
35:BA:953:A:O2'	35:BA:954:G:H5'	1.89	0.71
35:BA:877:U:O2'	35:BA:878:A:H5''	1.88	0.71
26:D1:29:GLY:HA3	35:DA:2396:G:O2'	1.89	0.71
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.20	0.71
4:CD:59:ARG:HA	4:CD:59:ARG:NE	2.00	0.71
2:AB:163:PHE:HA	2:AB:185:ILE:O	1.90	0.71
10:AJ:38:ILE:HG13	10:AJ:71:LEU:HB3	1.70	0.71
32:B7:8:ASN:C	32:B7:8:ASN:ND2	2.41	0.71
42:DH:125:VAL:O	42:DH:125:VAL:HG12	1.89	0.71
39:BE:46:ALA:HA	39:BE:82:ARG:O	1.89	0.71
49:DQ:109:VAL:CG1	49:DQ:113:GLN:HB2	2.19	0.71
49:BQ:58:PHE:CD1	49:BQ:58:PHE:O	2.44	0.71
45:DK:38:VAL:HG13	45:DK:39:LYS:HG3	1.72	0.71
39:BE:120:TRP:CD2	39:BE:155:LYS:HD3	2.25	0.71
47:BO:93:PRO:HD3	47:BO:114:ILE:HD11	1.70	0.71
35:BA:779:U:OP1	38:BD:49:ILE:HG23	1.90	0.71
39:DE:154:LYS:HA	39:DE:154:LYS:HE3	1.70	0.71
8:AH:35:ILE:HG23	8:AH:111:ILE:HD13	1.69	0.71
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.38	0.71
35:BA:614(A):U:H5''	35:BA:614(B):G:OP2	1.89	0.71
18:CR:59:SER:HB3	18:CR:62:GLU:HG3	1.73	0.71
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.05	0.71
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.20	0.71
39:DE:1:MET:HG2	39:DE:83:ASP:O	1.89	0.71
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.24	0.71
1:CA:1342:C:H1'	9:CI:124:GLN:HE22	1.54	0.71
49:BQ:55:VAL:CG2	49:BQ:56:ARG:N	2.53	0.71
39:BE:73:GLU:HG3	39:BE:74:PRO:HD2	1.73	0.71
50:DR:81:ASP:O	50:DR:82:GLU:HB2	1.88	0.71
42:DH:157:TYR:CE1	42:DH:171:LEU:N	2.58	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:32:A:H2'	1:AA:33:A:C8	2.24	0.71
24:AY:332:ASP:HB2	24:AY:334:GLU:OE2	1.90	0.71
15:AO:23:GLY:O	15:AO:24:SER:HB3	1.90	0.71
9:CI:20:ARG:HH11	9:CI:20:ARG:HG3	1.55	0.71
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.70	0.71
41:BG:2:PRO:HD2	41:BG:5:VAL:HG13	1.72	0.71
41:BG:39:ILE:CD1	41:BG:92:VAL:HG12	2.20	0.71
35:DA:1176:G:N2	35:DA:1178:C:H1'	2.04	0.71
51:BS:27:SER:HA	51:BS:88:ASP:HB3	1.72	0.71
35:BA:1116:C:C2'	35:BA:1117:G:H5'	2.21	0.71
35:DA:1598:C:H5'	56:DX:36:LYS:HG3	1.71	0.71
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.19	0.71
36:BB:12:C:H4'	36:BB:13:A:OP1	1.90	0.71
35:BA:1317:A:H2'	35:BA:1318:C:H6	1.54	0.71
10:AJ:81:THR:C	10:AJ:83:GLU:H	1.93	0.71
19:CS:36:ARG:HA	19:CS:71:LEU:HB2	1.70	0.71
38:BD:125:ILE:HD12	38:BD:125:ILE:H	1.55	0.71
3:AC:88:ARG:NH1	3:AC:101:LEU:HB3	2.05	0.71
57:BY:96:ILE:HG22	57:BY:97:ARG:H	1.54	0.71
40:BF:25:PRO:HG3	40:BF:119:ARG:CG	2.20	0.71
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.05	0.71
41:BG:117:PHE:O	41:BG:118:ARG:HG2	1.90	0.71
53:DU:91:ASP:OD2	53:DU:96:ALA:HB2	1.90	0.71
2:CB:163:PHE:HA	2:CB:185:ILE:O	1.91	0.71
42:BH:116:GLU:O	42:BH:118:PRO:HD3	1.90	0.71
35:BA:1717:G:H3'	35:BA:1718:G:H5''	1.71	0.71
39:BE:131:ALA:C	39:BE:133:LYS:H	1.93	0.71
3:CC:134:ILE:HG21	3:CC:168:ALA:HB3	1.70	0.71
1:AA:77:G:H2'	1:AA:78:G:H5'	1.73	0.71
1:AA:1060:C:H5'	14:AN:45:ARG:NH2	2.06	0.71
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.25	0.71
1:CA:591:U:H2'	1:CA:592:G:H8	1.54	0.71
24:AY:189:LEU:HD11	24:AY:191:ARG:HD3	1.72	0.71
59:D4:52:SER:HB3	41:DG:143:GLU:OE2	1.91	0.71
4:CD:59:ARG:CA	4:CD:59:ARG:HE	2.00	0.71
57:BY:2:ARG:C	57:BY:4:LYS:H	1.94	0.71
52:DT:40:THR:O	52:DT:41:ARG:HB2	1.89	0.71
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.21	0.71
35:BA:1019:U:O2'	35:BA:1021:A:H2	1.73	0.71
6:AF:43:LEU:CD1	6:AF:43:LEU:H	2.04	0.71
39:DE:51:PHE:O	39:DE:74:PRO:HB2	1.89	0.71
12:CL:59:ARG:NH1	12:CL:65:GLU:HG2	2.05	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.25	0.71
13:AM:50:GLU:O	13:AM:54:VAL:HG23	1.90	0.71
46:DN:25:ARG:HG3	46:DN:25:ARG:HH11	1.55	0.71
35:DA:598:G:C5'	48:DP:15:ARG:HB3	2.20	0.71
42:DH:35:VAL:O	42:DH:37:VAL:HG23	1.90	0.71
37:DC:168:THR:CA	37:DC:173:ALA:HB2	2.18	0.71
35:BA:493:G:C3'	35:BA:494:G:H5''	2.19	0.71
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.91	0.71
56:BX:10:ALA:O	56:BX:28:PHE:HB2	1.90	0.71
54:BV:6:LYS:HG2	54:BV:37:VAL:HB	1.71	0.71
47:DO:107:ARG:NH1	52:DT:35:LYS:HD2	2.05	0.71
48:DP:57:THR:HG23	48:DP:59:LEU:HB3	1.71	0.71
57:BY:87:LYS:HG3	57:BY:88:LYS:N	2.06	0.71
60:DI:111:PRO:HG2	60:DI:112:LYS:H	1.55	0.71
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.55	0.71
35:BA:2101:G:H2'	35:BA:2102:U:O4'	1.90	0.71
1:CA:250:A:H4'	1:CA:251:G:O5'	1.91	0.71
4:CD:85:LYS:HD3	4:CD:86:LYS:H	1.55	0.71
3:AC:141:VAL:HG11	3:AC:202:ILE:HD12	1.73	0.71
47:DO:93:PRO:HD3	47:DO:114:ILE:HD11	1.72	0.71
1:CA:1376:U:H2'	1:CA:1377:A:H8	1.55	0.71
58:DZ:4:ARG:HH11	58:DZ:4:ARG:HB3	1.54	0.71
41:BG:161:THR:HG22	41:BG:162:THR:N	2.05	0.71
35:DA:2287:A:N6	35:DA:2344:U:N3	2.37	0.71
55:DW:4:LYS:HG2	55:DW:106:ILE:HG22	1.71	0.71
35:DA:2161:C:H2'	35:DA:2162:G:C8	2.26	0.71
48:BP:18:ARG:HH11	48:BP:18:ARG:HB3	1.53	0.71
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.25	0.71
57:DY:87:LYS:HG3	57:DY:88:LYS:N	2.05	0.71
49:DQ:1:MET:SD	49:DQ:2:LEU:N	2.63	0.71
8:CH:35:ILE:HG23	8:CH:111:ILE:HD13	1.73	0.71
1:AA:1452:C:H4'	1:AA:1456:G:C4	2.26	0.71
6:CF:61:LEU:O	6:CF:62:TRP:HB2	1.90	0.71
35:DA:1614:A:H62	55:DW:93:ALA:HB2	1.56	0.71
35:DA:2101:G:H2'	35:DA:2102:U:O4'	1.89	0.71
43:BI:85:GLU:O	43:BI:86:THR:HG23	1.91	0.71
3:CC:15:THR:CG2	3:CC:181:ASN:H	2.04	0.71
19:AS:29:ARG:HD2	19:AS:29:ARG:C	2.11	0.71
33:B8:4:MET:HB2	33:B8:61:LEU:CD1	2.19	0.71
31:D6:11:LEU:HD21	31:D6:26:ASN:N	2.06	0.71
31:D6:23:THR:HG21	35:DA:2419:U:C5'	2.21	0.71
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.20	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:46:LYS:HB3	57:BY:47:LYS:HD2	1.73	0.71
58:BZ:141:VAL:HG23	58:BZ:144:LEU:HB2	1.71	0.71
53:DU:52:ARG:O	53:DU:55:ARG:HG2	1.91	0.71
53:DU:70:ARG:HA	53:DU:74:LEU:O	1.91	0.71
42:BH:89:ILE:HD12	42:BH:90:LYS:H	1.54	0.71
38:BD:32:SER:HA	38:BD:36:PRO:HG2	1.72	0.71
38:DD:25:THR:HG21	38:DD:81:ALA:HB1	1.71	0.71
49:BQ:109:VAL:CG1	49:BQ:113:GLN:HB2	2.21	0.71
30:B5:16:ARG:HD2	30:B5:20:ARG:HH21	1.56	0.71
20:CT:26:ASN:HD22	20:CT:27:LYS:H	1.39	0.71
53:DU:79:PHE:CE2	53:DU:83:LEU:HD22	2.26	0.71
24:AY:118:LEU:HG	24:AY:210:VAL:HG22	1.73	0.71
1:AA:79:G:H1'	1:AA:80:G:H8	1.56	0.71
49:BQ:137:TYR:HD2	58:BZ:76:LEU:HD21	1.55	0.71
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.73	0.71
3:CC:67:THR:HA	3:CC:102:ASN:HB2	1.73	0.71
49:BQ:141:GLN:H	58:BZ:99:TYR:CB	1.92	0.71
58:DZ:152:ALA:HB1	58:DZ:167:PRO:HB3	1.73	0.71
40:BF:2:LYS:HE3	40:BF:25:PRO:HB2	1.71	0.71
24:CY:59:VAL:HA	24:CY:62:PHE:HB3	1.73	0.71
24:AY:26:LEU:HD13	24:AY:48:VAL:HG23	1.72	0.71
1:CA:1130:A:H1'	1:CA:1146:A:C2	2.26	0.71
24:CY:54:ARG:HB3	24:CY:54:ARG:CZ	2.20	0.71
19:AS:79:THR:O	19:AS:80:TYR:HB2	1.88	0.71
40:BF:184:TYR:O	40:BF:188:ARG:HB2	1.90	0.71
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.89	0.71
22:AV:68:C:H2'	22:AV:69:G:C5'	2.21	0.71
43:BI:79:ILE:O	43:BI:81:VAL:HG23	1.91	0.71
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.20	0.71
36:BB:45:A:H1'	41:BG:95:ARG:CZ	2.21	0.71
22:CV:16:U:H3	22:CV:59:U:H3	1.37	0.71
52:BT:51:ARG:O	52:BT:61:PHE:HA	1.90	0.71
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	1.90	0.71
33:B8:31:HIS:O	33:B8:33:ASN:N	2.23	0.70
57:DY:46:LYS:HB3	57:DY:47:LYS:HD2	1.71	0.70
4:CD:13:ARG:O	4:CD:15:GLU:N	2.24	0.70
57:BY:28:LYS:HA	57:BY:39:VAL:H	1.56	0.70
60:DI:38:LEU:HD12	60:DI:38:LEU:N	2.04	0.70
22:AW:67:C:H2'	22:AW:68:C:C5	2.26	0.70
57:DY:28:LYS:HA	57:DY:39:VAL:H	1.54	0.70
48:DP:18:ARG:HH11	48:DP:18:ARG:HB3	1.55	0.70
43:BI:133:HIS:NE2	43:BI:135:GLU:HG2	2.05	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:69:LYS:CE	39:DE:90:THR:H	2.03	0.70
12:CL:55:VAL:HG12	12:CL:56:ALA:N	2.06	0.70
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.91	0.70
39:BE:55:ASN:C	39:BE:57:LYS:H	1.94	0.70
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.54	0.70
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.56	0.70
1:AA:486:U:H2'	1:AA:487:A:C8	2.26	0.70
35:BA:999:U:H2'	35:BA:1000:A:H5''	1.74	0.70
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.72	0.70
1:AA:591:U:H2'	1:AA:592:G:H8	1.56	0.70
35:DA:2121:G:H2'	35:DA:2122:U:H5'	1.73	0.70
56:DX:15:GLU:CD	56:DX:15:GLU:H	1.95	0.70
1:AA:525:C:H2'	1:AA:526:C:H6	1.54	0.70
45:BK:98:ARG:HD2	45:BK:139:VAL:HG22	1.72	0.70
35:BA:598:G:C5'	48:BP:15:ARG:HB3	2.21	0.70
41:BG:16:ARG:HH11	41:BG:31:VAL:HG11	1.55	0.70
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.55	0.70
53:BU:91:ASP:OD2	53:BU:96:ALA:HB2	1.90	0.70
54:BV:19:LYS:HA	54:BV:19:LYS:HZ3	1.56	0.70
33:D8:25:MET:HB2	48:DP:62:LEU:HD21	1.72	0.70
48:BP:7:ARG:HH11	48:BP:7:ARG:HG2	1.56	0.70
51:DS:85:VAL:HG23	51:DS:106:ARG:HB2	1.71	0.70
39:BE:69:LYS:CE	39:BE:90:THR:H	2.02	0.70
22:CV:72:C:H6	22:CV:72:C:H5'	1.54	0.70
35:DA:286:C:H2'	35:DA:287:C:H5''	1.71	0.70
35:BA:1981:A:H5''	35:BA:1982:C:OP2	1.91	0.70
30:D5:20:ARG:HH12	55:DW:15:ARG:NH2	1.90	0.70
1:CA:265:G:H5'	17:CQ:64:PRO:O	1.90	0.70
47:DO:15:GLY:O	47:DO:46:ALA:HB1	1.90	0.70
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.21	0.70
7:AG:80:VAL:HG21	7:AG:85:TYR:CD1	2.25	0.70
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.26	0.70
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.55	0.70
10:CJ:70:ARG:HE	10:CJ:70:ARG:HA	1.56	0.70
1:CA:1060:C:H5'	14:CN:45:ARG:NH2	2.06	0.70
49:DQ:34:LEU:HD11	49:DQ:129:THR:HB	1.73	0.70
35:DA:1396:U:H2'	35:DA:1396:U:O2	1.90	0.70
35:DA:2302:G:H1'	41:DG:128:ARG:HH22	1.56	0.70
35:DA:560:C:H4'	53:DU:52:ARG:CZ	2.22	0.70
35:BA:1176:G:N2	35:BA:1178:C:H1'	2.05	0.70
37:DC:82:LYS:O	37:DC:86:ALA:HB3	1.90	0.70
54:DV:19:LYS:HB3	54:DV:94:LEU:O	1.91	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.71	0.70
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.22	0.70
35:BA:1685:C:O2'	35:BA:1686:C:H5''	1.90	0.70
16:CP:51:VAL:HG12	16:CP:52:ASP:N	2.06	0.70
9:AI:20:ARG:HG3	9:AI:20:ARG:HH11	1.55	0.70
48:BP:75:ILE:HD13	48:BP:77:ARG:HD2	1.73	0.70
22:CV:30:G:H2'	22:CV:31:A:H5'	1.72	0.70
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.06	0.70
35:BA:1946:U:H2'	35:BA:1947:C:H6	1.56	0.70
25:B0:82:ARG:O	25:B0:82:ARG:HG3	1.90	0.70
35:BA:566:U:O4	54:BV:78:LYS:HE3	1.91	0.70
16:AP:6:LEU:HB3	16:AP:17:TYR:HD2	1.57	0.70
43:BI:9:LEU:CD1	43:BI:12:LEU:HD12	2.21	0.70
35:BA:661:C:H4'	48:BP:16:ARG:HD3	1.72	0.70
1:AA:1118:C:OP1	9:AI:9:ARG:HD2	1.91	0.70
24:CY:26:LEU:HD13	24:CY:48:VAL:HG23	1.74	0.70
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.90	0.70
35:DA:286:C:H2'	35:DA:287:C:H5'	1.73	0.70
48:DP:100:LEU:H	48:DP:100:LEU:HD22	1.57	0.70
14:CN:26:ARG:HD2	14:CN:47:LEU:HD11	1.73	0.70
22:AV:20:U:C3'	22:AV:21:A:H5'	2.21	0.70
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.26	0.70
1:AA:833:U:H2'	1:AA:834:C:C6	2.27	0.70
35:DA:1070:A:H5'	35:DA:1072:C:OP2	1.92	0.70
35:DA:1907:G:O2'	35:DA:1908:C:H5'	1.92	0.70
24:AY:252:VAL:HG22	24:AY:259:THR:HB	1.71	0.70
1:CA:865:A:H5'	1:CA:1078:U:O4	1.91	0.70
48:DP:6:LEU:H	48:DP:6:LEU:HD23	1.56	0.70
1:CA:222:U:H2'	1:CA:223:U:H6	1.56	0.70
2:CB:92:TYR:CE2	2:CB:151:GLY:HA3	2.26	0.70
26:D1:82:LEU:HB3	26:D1:90:ILE:HD12	1.72	0.70
35:DA:925:C:H2'	35:DA:926:A:C5'	2.12	0.70
1:AA:356:A:C2	1:AA:357:G:H1'	2.27	0.70
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.73	0.70
12:AL:38:THR:HB	12:AL:57:LYS:HB2	1.73	0.70
48:BP:57:THR:HG23	48:BP:59:LEU:HB3	1.73	0.70
22:CW:5:G:O2'	22:CW:6:G:H5'	1.92	0.70
35:BA:27:G:HO2'	35:BA:28:A:H8	1.38	0.70
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.04	0.70
39:BE:181:LEU:HD21	52:BT:7:ILE:CG2	2.21	0.70
58:DZ:8:TYR:N	58:DZ:8:TYR:HD1	1.90	0.70
22:CW:28:G:H2'	22:CW:29:G:C8	2.26	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:CQ:45:HIS:CD2	17:CQ:47:PRO:HD3	2.27	0.70
20:CT:13:LEU:C	20:CT:13:LEU:HD12	2.12	0.70
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.73	0.70
56:DX:88:LYS:HE3	56:DX:93:GLU:HG3	1.72	0.70
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.26	0.70
45:DK:90:LYS:O	58:DZ:112:ARG:CZ	2.39	0.70
40:DF:25:PRO:HG3	40:DF:119:ARG:CG	2.22	0.70
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.55	0.70
33:D8:25:MET:HB2	48:DP:62:LEU:CD2	2.21	0.70
2:AB:80:ILE:O	2:AB:80:ILE:HG13	1.91	0.70
35:DA:1685:C:O2'	35:DA:1686:C:H5''	1.91	0.70
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.27	0.70
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.07	0.70
1:AA:560:U:H4'	1:AA:561:U:H5''	1.73	0.70
34:D9:35:ARG:HG2	34:D9:36:GLN:H	1.57	0.70
39:DE:101:ARG:HH21	39:DE:171:GLU:N	1.90	0.70
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.72	0.70
24:CY:55:LEU:O	24:CY:58:THR:HB	1.92	0.70
24:AY:22:LYS:HA	24:AY:25:ARG:CD	2.20	0.70
24:AY:254:LEU:HB2	24:AY:255:PRO:HD3	1.73	0.70
33:B8:25:MET:HB2	48:BP:62:LEU:HD21	1.72	0.70
40:DF:182:ASN:O	40:DF:186:ILE:HG12	1.91	0.70
48:DP:7:ARG:HG2	48:DP:7:ARG:HH11	1.56	0.70
3:CC:92:ALA:HB2	3:CC:99:VAL:CG2	2.22	0.70
35:DA:650:C:C3'	35:DA:651:G:H5''	2.22	0.70
48:BP:100:LEU:H	48:BP:100:LEU:HD22	1.55	0.70
35:DA:676:A:H2	35:DA:802:A:H61	1.40	0.70
39:BE:51:PHE:O	39:BE:74:PRO:HB2	1.91	0.70
27:B2:41:ILE:HD11	27:B2:44:LEU:HD12	1.73	0.70
1:CA:963:G:H2'	1:CA:964:A:H8	1.56	0.70
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.73	0.70
40:BF:116:ASP:OD2	48:BP:5:ASP:HB2	1.92	0.70
52:BT:8:LYS:HA	52:BT:11:GLU:OE1	1.92	0.70
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.07	0.70
35:DA:1071:G:H1'	35:DA:1089:G:C8	2.26	0.70
6:AF:19:LEU:O	6:AF:23:LYS:HG3	1.91	0.70
35:BA:70:G:H21	35:BA:71:A:N6	1.90	0.70
48:BP:17:LYS:O	48:BP:19:VAL:HG22	1.91	0.70
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.90	0.70
13:CM:50:GLU:O	13:CM:54:VAL:HG23	1.91	0.70
2:CB:197:VAL:HB	2:CB:200:ILE:HG12	1.74	0.70
24:AY:344:LEU:N	24:AY:344:LEU:HD23	1.97	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BK:25:PRO:HB3	45:BK:29:GLN:OE1	1.92	0.70
35:BA:2161:C:H2'	35:BA:2162:G:C8	2.27	0.70
33:B8:25:MET:HB2	48:BP:62:LEU:CD2	2.22	0.70
42:DH:125:VAL:HG22	42:DH:131:VAL:HG22	1.72	0.70
35:BA:286:C:H42	35:BA:355:G:H1	1.39	0.70
39:BE:131:ALA:HB1	39:BE:133:LYS:HG3	1.72	0.70
19:CS:29:ARG:HD2	19:CS:29:ARG:C	2.11	0.70
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.26	0.70
39:BE:97:LYS:O	39:BE:100:GLU:HG3	1.92	0.70
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.74	0.70
35:BA:645:C:H2'	35:BA:645:C:O2	1.90	0.70
22:CV:45:U:C2'	22:CV:46:G:H5'	2.21	0.70
35:BA:2287:A:N6	35:BA:2344:U:N3	2.38	0.70
31:D6:9:LEU:HD23	31:D6:10:LEU:N	2.05	0.70
24:AY:65:LEU:HD11	24:AY:95:ALA:HA	1.74	0.70
58:BZ:146:ILE:HG13	58:BZ:147:GLY:H	1.55	0.70
18:AR:59:SER:HB3	18:AR:62:GLU:HG3	1.74	0.70
56:DX:10:ALA:O	56:DX:28:PHE:HB2	1.91	0.70
8:CH:109:ILE:HG13	8:CH:122:ARG:NH2	2.07	0.70
2:AB:87:ARG:HD2	2:AB:87:ARG:O	1.92	0.70
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.73	0.70
24:CY:113:GLU:CD	24:CY:113:GLU:H	1.94	0.70
1:CA:1446:U:H4'	1:CA:1447:A:C8	2.26	0.70
11:CK:19:ALA:HB2	11:CK:32:ILE:HG23	1.73	0.70
35:BA:1693:U:H1'	38:BD:14:ARG:NH1	2.06	0.70
35:BA:991:C:H6	35:BA:991:C:H5'	1.56	0.70
8:AH:51:VAL:HG11	8:AH:60:ARG:HH11	1.55	0.70
24:AY:302:VAL:O	24:AY:303:GLU:HG2	1.92	0.70
1:CA:1530:G:H2'	1:CA:1531:A:O4'	1.91	0.70
44:DJ:105:UNK:C	44:DJ:107:UNK:H	2.03	0.70
57:DY:46:LYS:HD3	57:DY:47:LYS:HZ2	1.55	0.70
35:BA:598:G:H5'	48:BP:15:ARG:HB3	1.72	0.70
57:BY:47:LYS:HD2	57:BY:47:LYS:H	1.57	0.70
41:BG:22:ARG:NH1	41:BG:22:ARG:HB3	2.02	0.70
35:BA:1827:C:O2'	35:BA:1828:G:H5'	1.91	0.70
8:AH:109:ILE:HG13	8:AH:122:ARG:NH2	2.07	0.70
27:D2:59:ARG:HA	27:D2:62:THR:HB	1.73	0.70
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.72	0.70
35:BA:1169:G:H2'	35:BA:1170:G:O4'	1.91	0.70
45:BK:72:PRO:CG	45:BK:77:LEU:HD21	2.22	0.70
35:DA:620:G:H4'	35:DA:621:A:H5'	1.73	0.70
51:BS:74:ALA:HB1	51:BS:103:GLU:CG	2.22	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.22	0.70
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.91	0.70
45:BK:11:GLN:HB2	45:BK:52:ILE:HD11	1.74	0.70
60:DI:98:ALA:HA	60:DI:109:ILE:HD11	1.73	0.70
22:CW:28:G:H2'	22:CW:29:G:H8	1.55	0.70
8:AH:29:SER:HB3	8:AH:32:LYS:HG3	1.74	0.70
35:BA:1071:G:H1'	35:BA:1089:G:C8	2.27	0.70
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.74	0.70
7:CG:78:ARG:O	7:CG:84:ASN:HA	1.92	0.70
35:BA:821:A:H2'	35:BA:946:G:H5''	1.74	0.70
25:B0:43:THR:HG22	35:BA:2331:G:O2'	1.91	0.70
1:CA:486:U:H2'	1:CA:487:A:C8	2.27	0.70
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.90	0.70
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.07	0.70
33:D8:32:LEU:HD11	35:DA:2392:A:P	2.31	0.69
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.74	0.69
31:D6:16:CYS:O	31:D6:17:LYS:HB2	1.92	0.69
58:DZ:30:ASN:ND2	58:DZ:33:LEU:N	2.39	0.69
38:BD:35:LYS:NZ	38:BD:103:ARG:HA	2.07	0.69
26:B1:3:LYS:CG	26:B1:4:VAL:H	2.04	0.69
39:DE:46:ALA:HA	39:DE:82:ARG:O	1.91	0.69
35:DA:286:C:H42	35:DA:355:G:H1	1.39	0.69
1:AA:1472:U:H2'	1:AA:1473:A:C8	2.27	0.69
1:CA:16:A:O2'	1:CA:17:U:H5'	1.91	0.69
1:AA:826:C:H2'	1:AA:827:U:C6	2.26	0.69
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.22	0.69
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	1.92	0.69
35:BA:2121:G:H2'	35:BA:2122:U:H5'	1.74	0.69
46:BN:7:LYS:O	46:BN:9:VAL:HG23	1.91	0.69
35:BA:2267:A:H5''	35:BA:2268:A:H5'	1.72	0.69
56:BX:15:GLU:CD	56:BX:15:GLU:H	1.95	0.69
1:CA:79:G:H1'	1:CA:80:G:H8	1.55	0.69
1:CA:966:G:O2'	1:CA:967:C:C6	2.43	0.69
35:BA:993:G:OP1	53:BU:50:ARG:NH2	2.25	0.69
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.72	0.69
51:BS:30:ARG:HH21	51:BS:97:ARG:HG2	1.57	0.69
57:DY:81:LYS:CD	57:DY:97:ARG:HB3	2.16	0.69
58:BZ:28:MET:HA	58:BZ:88:PHE:O	1.92	0.69
40:DF:23:ASP:O	40:DF:115:ALA:HA	1.91	0.69
24:AY:291:ARG:NH1	24:AY:295:LEU:HD11	2.07	0.69
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.23	0.69
41:DG:115:ARG:HH12	41:DG:136:ARG:HG3	1.55	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:55:ASN:HD21	39:BE:75:VAL:HG22	1.57	0.69
45:DK:11:GLN:HB2	45:DK:52:ILE:HD11	1.74	0.69
35:DA:1525:G:H2'	35:DA:1526:G:H8	1.57	0.69
2:AB:102:LEU:HB3	2:AB:180:LEU:HD12	1.72	0.69
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.26	0.69
15:CO:50:HIS:O	15:CO:53:HIS:HB3	1.91	0.69
44:DJ:23:UNK:HA	44:DJ:117:UNK:O	1.91	0.69
16:CP:6:LEU:HB3	16:CP:17:TYR:HD2	1.57	0.69
1:CA:833:U:H2'	1:CA:834:C:C6	2.27	0.69
43:BI:142:VAL:HG12	43:BI:143:SER:H	1.54	0.69
42:BH:157:TYR:CE1	42:BH:171:LEU:N	2.60	0.69
2:CB:11:LEU:HD12	2:CB:217:ARG:NH2	2.07	0.69
6:AF:77:ARG:NH1	6:AF:77:ARG:HB3	2.07	0.69
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HB2	2.28	0.69
58:DZ:152:ALA:HB2	58:DZ:168:GLU:CA	2.21	0.69
57:DY:47:LYS:HD2	57:DY:47:LYS:H	1.55	0.69
33:D8:4:MET:HB2	33:D8:61:LEU:CD1	2.23	0.69
4:CD:14:ARG:HA	4:CD:39:PRO:HG3	1.75	0.69
2:AB:197:VAL:HB	2:AB:200:ILE:HG12	1.74	0.69
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.07	0.69
1:CA:1435:G:H2'	1:CA:1436:U:H6	1.54	0.69
1:CA:59:A:H5''	1:CA:60:A:H5''	1.73	0.69
35:DA:661:C:H4'	48:DP:16:ARG:HD3	1.74	0.69
52:DT:50:ILE:H	52:DT:50:ILE:HD12	1.57	0.69
35:DA:620:G:H4'	35:DA:621:A:H5''	1.73	0.69
35:DA:2137:C:H2'	35:DA:2138:C:H6	1.57	0.69
49:BQ:1:MET:SD	49:BQ:2:LEU:N	2.64	0.69
1:CA:826:C:H2'	1:CA:827:U:C6	2.27	0.69
35:DA:882:G:H2'	35:DA:883:G:C8	2.27	0.69
58:DZ:8:TYR:H	58:DZ:8:TYR:HD1	1.36	0.69
35:BA:1070:A:H5'	35:BA:1072:C:OP2	1.92	0.69
8:CH:63:LEU:HB2	8:CH:65:TYR:CE1	2.27	0.69
35:BA:2473:U:O2	35:BA:2473:U:H2'	1.90	0.69
35:BA:1562:A:H2'	35:BA:1563:G:C8	2.28	0.69
42:BH:85:LYS:HE2	42:BH:145:ALA:N	2.07	0.69
35:DA:645:C:O2	35:DA:645:C:H2'	1.92	0.69
36:BB:65:C:O2'	36:BB:66:A:H5'	1.92	0.69
26:B1:81:LYS:CE	35:BA:271(H):G:C4'	2.66	0.69
57:BY:96:ILE:HB	57:BY:99:CYS:HB2	1.75	0.69
57:BY:81:LYS:CD	57:BY:97:ARG:HB3	2.16	0.69
13:AM:3:ARG:NH2	13:AM:7:VAL:HG13	2.07	0.69
53:DU:92:ARG:NH1	54:DV:11:GLN:H	1.90	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:92:ARG:NH2	53:BU:94:ASN:ND2	2.41	0.69
36:BB:84:C:C2'	36:BB:85:G:H5''	2.22	0.69
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.07	0.69
51:DS:89:ARG:HB3	51:DS:92:TYR:HB3	1.73	0.69
24:CY:68:ASP:CG	24:CY:91:LEU:HD11	2.13	0.69
4:CD:133:VAL:HG11	4:CD:138:TYR:CD1	2.23	0.69
35:BA:143:G:C1'	56:BX:37:THR:HG21	2.22	0.69
57:BY:49:VAL:HA	57:BY:53:PRO:HG3	1.74	0.69
35:DA:1697:G:H3'	35:DA:1698:A:C5'	2.21	0.69
1:AA:1329:A:C5'	13:AM:29:ARG:HD2	2.21	0.69
35:DA:92:A:H2'	35:DA:93:G:C8	2.27	0.69
39:DE:55:ASN:C	39:DE:57:LYS:H	1.95	0.69
49:BQ:55:VAL:HG23	49:BQ:56:ARG:N	2.07	0.69
4:AD:28:SER:O	4:AD:30:LYS:N	2.26	0.69
46:BN:67:LEU:H	46:BN:67:LEU:HD12	1.55	0.69
42:DH:41:MET:CG	42:DH:54:ARG:HA	2.22	0.69
7:CG:80:VAL:HG21	7:CG:85:TYR:CD1	2.27	0.69
1:AA:265:G:H5'	17:AQ:64:PRO:O	1.92	0.69
35:BA:601:C:H5''	40:BF:108:LYS:HZ1	1.57	0.69
3:AC:15:THR:CG2	3:AC:181:ASN:H	2.04	0.69
35:BA:271(A):A:H5'	35:BA:271(B):C:OP2	1.92	0.69
35:DA:718:A:H2'	35:DA:719:C:H5'	1.74	0.69
44:BJ:23:UNK:HA	44:BJ:117:UNK:O	1.92	0.69
41:BG:62:LEU:O	41:BG:62:LEU:HD23	1.92	0.69
35:BA:879:G:H2'	35:BA:880:G:H8	1.56	0.69
41:DG:104:GLU:O	41:DG:108:ASN:HB2	1.91	0.69
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.21	0.69
48:DP:112:LEU:HD23	48:DP:113:LYS:N	2.06	0.69
48:BP:41:ARG:N	48:BP:41:ARG:HD2	2.04	0.69
31:B6:15:GLU:OE2	31:B6:43:CYS:SG	2.51	0.69
52:DT:62:THR:HG22	52:DT:75:ILE:HG12	1.73	0.69
35:DA:1505:C:H3'	35:DA:1506:C:H6	1.57	0.69
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.75	0.69
54:BV:19:LYS:HB3	54:BV:94:LEU:O	1.92	0.69
50:DR:2:ARG:NH1	50:DR:5:LYS:NZ	2.41	0.69
24:AY:115:ASN:ND2	24:AY:173:GLY:H	1.90	0.69
36:DB:117:G:C5'	51:DS:55:ALA:HB1	2.23	0.69
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.74	0.69
16:AP:51:VAL:HG12	16:AP:52:ASP:N	2.07	0.69
35:DA:848:G:H2'	35:DA:849:A:C8	2.27	0.69
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.56	0.69
6:AF:14:LEU:HD22	6:AF:18:GLN:HE21	1.58	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:38:ARG:O	40:DF:42:ALA:HB2	1.92	0.69
35:DA:1693:U:H1'	38:DD:14:ARG:HH12	1.58	0.69
26:B1:86:SER:HB2	26:B1:90:ILE:CG1	2.18	0.69
33:B8:53:PRO:HA	33:B8:56:GLU:HB2	1.75	0.69
24:CY:52:ALA:HA	24:CY:55:LEU:CB	2.22	0.69
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.70	0.69
24:AY:25:ARG:HA	24:AY:28:GLU:HB2	1.73	0.69
57:BY:7:VAL:HG21	57:BY:8:LYS:HZ3	1.57	0.69
35:DA:1827:C:O2'	35:DA:1828:G:H5'	1.93	0.69
9:AI:86:VAL:HG23	9:AI:92:TYR:O	1.93	0.69
35:DA:1169:G:H2'	35:DA:1170:G:O4'	1.92	0.69
42:BH:97:ARG:HG2	42:BH:98:LEU:N	2.08	0.69
22:AW:9:A:H4'	22:AW:46:G:H5'	1.73	0.69
24:AY:154:VAL:HG12	24:AY:155:ASP:OD1	1.92	0.69
1:AA:191:G:H1'	20:AT:105:SER:HA	1.75	0.69
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.25	0.69
49:DQ:55:VAL:CG2	49:DQ:56:ARG:N	2.55	0.69
35:DA:2148:G:O2'	35:DA:2149:G:H5'	1.92	0.69
35:BA:286:C:H2'	35:BA:287:C:H5'	1.72	0.69
11:AK:48:ILE:HG21	11:AK:63:LEU:HD22	1.75	0.69
1:AA:963:G:H2'	1:AA:964:A:H8	1.56	0.69
3:AC:16:ARG:HH11	3:AC:16:ARG:HB2	1.58	0.69
35:BA:718:A:H2'	35:BA:719:C:H5'	1.75	0.69
8:CH:29:SER:HB3	8:CH:32:LYS:HG3	1.74	0.69
46:DN:7:LYS:O	46:DN:9:VAL:HG23	1.93	0.69
42:DH:12:PRO:HD3	42:DH:49:VAL:HA	1.74	0.69
35:DA:566:U:O4	54:DV:78:LYS:HE3	1.92	0.69
53:BU:79:PHE:CE2	53:BU:83:LEU:HD22	2.28	0.69
1:AA:250:A:H4'	1:AA:251:G:O5'	1.91	0.69
24:CY:10:LEU:HB2	24:CY:14:ARG:NH1	2.08	0.69
1:AA:22:G:H2'	1:AA:23:C:C6	2.27	0.69
26:D1:86:SER:HA	26:D1:89:GLU:OE1	1.93	0.69
35:BA:2759:G:O2'	35:BA:2760:C:H5'	1.92	0.69
41:BG:174:GLU:HA	41:BG:178:PHE:HB2	1.73	0.69
35:BA:494:G:H8	35:BA:494:G:H5'	1.57	0.69
2:CB:87:ARG:HD2	2:CB:87:ARG:O	1.93	0.69
10:CJ:22:LYS:HZ3	10:CJ:90:LEU:HD13	1.57	0.69
5:AE:6:PHE:HB2	5:AE:34:VAL:HG12	1.73	0.69
39:DE:78:LEU:N	39:DE:78:LEU:HD23	2.07	0.69
50:BR:4:LEU:C	50:BR:6:SER:H	1.96	0.69
35:BA:848:G:H2'	35:BA:849:A:C8	2.27	0.69
2:CB:7:VAL:O	2:CB:11:LEU:HG	1.92	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:58:TYR:O	8:AH:59:LEU:HD23	1.93	0.69
1:CA:1194:U:H4'	5:CE:22:GLY:O	1.93	0.69
4:AD:85:LYS:HD3	4:AD:86:LYS:H	1.56	0.69
25:D0:84:LEU:N	25:D0:84:LEU:HD12	2.07	0.69
57:DY:96:ILE:HB	57:DY:99:CYS:HB2	1.73	0.69
42:DH:13:LYS:HD3	42:DH:14:GLY:N	1.95	0.69
42:BH:35:VAL:O	42:BH:37:VAL:HG23	1.91	0.69
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.21	0.69
13:CM:3:ARG:NH2	13:CM:7:VAL:HG13	2.08	0.69
42:BH:12:PRO:HD3	42:BH:49:VAL:HA	1.75	0.69
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.56	0.69
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.75	0.69
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.28	0.69
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.33	0.69
35:BA:494:G:C8	35:BA:494:G:H5'	2.28	0.69
46:BN:15:LEU:HG	46:BN:134:ARG:HD2	1.75	0.69
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.22	0.69
1:CA:356:A:C2	1:CA:357:G:H1'	2.27	0.69
10:CJ:22:LYS:NZ	10:CJ:90:LEU:HD13	2.07	0.69
3:AC:92:ALA:CA	3:AC:99:VAL:HG11	2.22	0.69
35:BA:92:A:H2'	35:BA:93:G:C8	2.27	0.69
1:AA:411:A:H62	1:AA:413:G:N2	1.91	0.69
35:BA:2137:C:H2'	35:BA:2138:C:H6	1.56	0.69
7:AG:78:ARG:O	7:AG:84:ASN:HA	1.92	0.69
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.56	0.69
3:CC:15:THR:HG21	3:CC:181:ASN:H	1.58	0.69
48:BP:17:LYS:C	48:BP:19:VAL:H	1.96	0.69
11:AK:19:ALA:HB2	11:AK:32:ILE:HG23	1.75	0.69
35:DA:1223:G:H5'	35:DA:1224:C:OP2	1.93	0.69
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.13	0.69
8:AH:63:LEU:HB2	8:AH:65:TYR:CE1	2.27	0.69
35:DA:2654:A:H1'	35:DA:2656:U:C6	2.28	0.69
48:BP:135:LEU:O	48:BP:139:LYS:HB2	1.93	0.69
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.28	0.69
1:CA:77:G:H2'	1:CA:78:G:H5'	1.73	0.69
35:DA:2292:C:O2'	35:DA:2293:C:H5'	1.93	0.69
42:DH:85:LYS:HE2	42:DH:145:ALA:N	2.08	0.69
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.23	0.69
14:AN:24:CYS:HB2	14:AN:40:CYS:HB3	1.74	0.69
14:AN:3:ARG:HB3	14:AN:3:ARG:NH1	2.07	0.69
1:AA:357:G:C2'	1:AA:358:U:H5''	2.23	0.69
35:DA:2315:G:H2'	35:DA:2316:C:H6	1.55	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:82:LEU:CD2	41:DG:87:PRO:HG3	2.18	0.69
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.57	0.69
35:BA:494:G:H21	55:BW:57:ASN:HD21	1.37	0.69
31:B6:19:ARG:HG2	31:B6:20:ASN:N	2.06	0.69
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.08	0.69
35:BA:2036:C:H5'	35:BA:2036:C:C6	2.21	0.69
58:BZ:8:TYR:O	58:BZ:37:VAL:HG12	1.92	0.69
35:DA:143:G:C1'	56:DX:37:THR:HG21	2.22	0.69
3:CC:92:ALA:CA	3:CC:99:VAL:HG11	2.22	0.69
22:AW:8:U:H1'	22:AW:48:C:H1'	1.75	0.69
35:BA:676:A:H2	35:BA:802:A:H61	1.40	0.69
6:CF:68:PRO:HG3	6:CF:71:ARG:NH2	2.07	0.69
60:DI:68:LEU:HD22	60:DI:107:ILE:HD13	1.75	0.69
40:BF:160:ASN:ND2	40:BF:162:LEU:H	1.91	0.69
6:CF:98:LEU:HB3	18:CR:30:ASP:HA	1.74	0.69
35:DA:2096:U:H2'	35:DA:2097:C:H6	1.57	0.69
35:BA:1614:A:H62	55:BW:93:ALA:HB2	1.57	0.69
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.08	0.69
1:AA:792:A:H4'	1:AA:793:U:O5'	1.92	0.69
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.22	0.69
51:DS:30:ARG:HH21	51:DS:97:ARG:HG2	1.58	0.69
49:BQ:140:ALA:HB1	58:BZ:99:TYR:CB	2.23	0.69
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.74	0.69
40:DF:125:LEU:HD11	40:DF:199:TRP:CD1	2.29	0.69
54:DV:6:LYS:HG2	54:DV:37:VAL:HB	1.74	0.69
35:BA:2790:A:C2'	35:BA:2791:C:H5'	2.23	0.69
1:AA:59:A:H5''	1:AA:60:A:H5''	1.73	0.69
35:DA:2875:C:O2'	52:DT:5:ALA:HB3	1.92	0.69
38:DD:32:SER:HA	38:DD:36:PRO:HG2	1.73	0.69
60:DI:101:LEU:HD12	60:DI:102:SER:N	2.07	0.69
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.57	0.69
3:AC:60:ALA:HB1	10:AJ:91:PRO:HB2	1.75	0.69
50:BR:24:GLN:NE2	50:BR:36:THR:HG21	2.07	0.69
35:BA:2599:G:C8	38:BD:237:GLU:HG3	2.28	0.69
40:DF:160:ASN:ND2	40:DF:162:LEU:H	1.91	0.69
8:AH:29:SER:HB3	8:AH:32:LYS:CG	2.23	0.69
8:CH:29:SER:HB3	8:CH:32:LYS:CG	2.23	0.69
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.75	0.69
1:AA:1033:G:H2'	1:AA:1034:G:O4'	1.92	0.69
35:BA:2585:U:O2'	35:BA:2586:C:H5'	1.93	0.69
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.57	0.69
58:DZ:152:ALA:CB	58:DZ:168:GLU:H	2.04	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CV:56:C:O2	41:DG:78:SER:HB2	1.92	0.68
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.74	0.68
46:DN:15:LEU:HG	46:DN:134:ARG:HD2	1.75	0.68
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.73	0.68
45:DK:72:PRO:CG	45:DK:77:LEU:HD21	2.23	0.68
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.92	0.68
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.23	0.68
35:BA:882:G:H2'	35:BA:883:G:C8	2.28	0.68
29:B4:46:ASN:ND2	29:B4:47:VAL:H	1.91	0.68
40:DF:136:THR:HG23	40:DF:137:LYS:H	1.59	0.68
1:CA:1442(A):G:H3'	1:CA:1442(B):A:H5'	1.75	0.68
10:AJ:70:ARG:HA	10:AJ:70:ARG:HE	1.56	0.68
3:AC:67:THR:HA	3:AC:102:ASN:HB2	1.72	0.68
2:AB:11:LEU:HD12	2:AB:217:ARG:NH2	2.09	0.68
53:DU:34:LYS:HE2	53:DU:34:LYS:HA	1.73	0.68
20:AT:13:LEU:C	20:AT:13:LEU:HD12	2.14	0.68
49:BQ:141:GLN:O	58:BZ:98:MET:HB2	1.93	0.68
19:CS:63:THR:HG22	19:CS:66:MET:HE2	1.75	0.68
41:DG:125:PHE:O	41:DG:128:ARG:HG2	1.93	0.68
41:BG:130:ASN:OD1	41:BG:161:THR:N	2.24	0.68
1:CA:1125:U:O4	10:CJ:5:ARG:HD3	1.94	0.68
53:BU:92:ARG:NH2	53:BU:94:ASN:HD22	1.91	0.68
1:AA:1126:U:H2'	1:AA:1127:G:O4'	1.94	0.68
9:AI:48:GLU:H	9:AI:49:PRO:HD2	1.58	0.68
54:BV:19:LYS:HZ2	54:BV:20:LEU:H	1.41	0.68
12:CL:87:GLY:HA2	12:CL:98:TYR:HA	1.74	0.68
42:BH:125:VAL:HG22	42:BH:131:VAL:HG22	1.75	0.68
51:DS:106:ARG:NH1	51:DS:109:GLY:N	2.41	0.68
22:CV:3:C:C6	22:CV:3:C:H5'	2.24	0.68
50:BR:12:ARG:HE	50:BR:16:HIS:CE1	2.10	0.68
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.76	0.68
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.14	0.68
35:DA:2118:U:H5	35:DA:2148:G:O2'	1.75	0.68
10:AJ:22:LYS:HZ3	10:AJ:90:LEU:HD13	1.57	0.68
1:AA:423:G:H2'	1:AA:424:G:H5'	1.75	0.68
1:AA:425:G:O2'	1:AA:426:G:H5'	1.94	0.68
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.57	0.68
42:DH:116:GLU:O	42:DH:118:PRO:HD3	1.93	0.68
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.07	0.68
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.07	0.68
1:AA:1238:A:C8	1:AA:1303:C:H1'	2.27	0.68
35:DA:879:G:H2'	35:DA:880:G:H8	1.57	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:932:C:H5''	7:CG:3:ARG:HD2	1.74	0.68
6:CF:77:ARG:HB3	6:CF:77:ARG:NH1	2.08	0.68
35:DA:2199:A:H5'	35:DA:2200:C:OP2	1.93	0.68
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.27	0.68
22:AV:53:G:H2'	22:AV:54:U:H6	1.58	0.68
35:DA:2585:U:O2'	35:DA:2586:C:H5'	1.93	0.68
1:AA:222:U:H2'	1:AA:223:U:H6	1.57	0.68
4:AD:187:ARG:NH2	6:CF:17:SER:OG	2.25	0.68
1:CA:757:U:H2'	1:CA:758:G:O4'	1.94	0.68
33:B8:33:ASN:C	33:B8:33:ASN:ND2	2.47	0.68
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.66	0.68
40:BF:20:LEU:HB3	40:BF:23:ASP:OD2	1.93	0.68
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.20	0.68
35:DA:2571:C:H5'	35:DA:2572:A:C5'	2.18	0.68
9:CI:86:VAL:HG23	9:CI:92:TYR:O	1.93	0.68
31:B6:15:GLU:CG	31:B6:18:ARG:HE	2.06	0.68
35:BA:560:C:H4'	53:BU:52:ARG:HH22	1.56	0.68
53:BU:58:ARG:O	53:BU:62:ILE:HG12	1.93	0.68
2:AB:204:ASN:ND2	2:AB:207:ALA:HB3	2.09	0.68
22:AW:12:U:H2'	22:AW:13:C:O4'	1.92	0.68
12:CL:38:THR:HB	12:CL:57:LYS:HB2	1.72	0.68
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.22	0.68
35:DA:2189:U:H2'	35:DA:2190:G:C5'	2.23	0.68
35:BA:286:C:H2'	35:BA:287:C:H5''	1.75	0.68
2:CB:79:ASP:O	2:CB:82:ARG:HG2	1.93	0.68
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	1.94	0.68
24:CY:118:LEU:O	24:CY:168:GLN:HA	1.93	0.68
35:BA:2131:G:OP1	35:BA:2132:U:H3'	1.93	0.68
1:CA:1033:G:H2'	1:CA:1034:G:O4'	1.94	0.68
1:AA:966:G:O2'	1:AA:967:C:C6	2.43	0.68
14:CN:24:CYS:HB2	14:CN:40:CYS:HB3	1.73	0.68
33:D8:53:PRO:HA	33:D8:56:GLU:HB2	1.76	0.68
42:BH:19:VAL:HG21	42:BH:44:VAL:HG13	1.74	0.68
41:BG:47:LYS:H	41:BG:51:ARG:HG3	1.58	0.68
24:AY:27:LYS:HG2	45:BK:20:ALA:HB3	1.74	0.68
51:DS:27:SER:HA	51:DS:88:ASP:HB3	1.75	0.68
39:BE:81:ILE:O	39:BE:82:ARG:HB2	1.92	0.68
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.27	0.68
24:CY:258:ILE:C	24:CY:258:ILE:HD12	2.14	0.68
1:CA:556:C:O2'	1:CA:557:G:H5'	1.94	0.68
1:AA:423:G:C2'	1:AA:424:G:H5'	2.23	0.68
12:AL:59:ARG:NH1	12:AL:65:GLU:HG2	2.07	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:78:LEU:HD23	39:BE:78:LEU:N	2.09	0.68
39:DE:68:ALA:O	39:DE:70:ALA:N	2.24	0.68
35:BA:2467:C:H4'	49:BQ:123:HIS:CD2	2.29	0.68
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.75	0.68
16:CP:82:GLN:H	16:CP:82:GLN:NE2	1.91	0.68
47:BO:24:VAL:CG2	47:BO:33:ALA:HB2	2.23	0.68
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.57	0.68
48:DP:48:PRO:HD2	48:DP:49:ARG:H	1.58	0.68
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	1.93	0.68
35:BA:2302:G:H1'	41:BG:128:ARG:CZ	2.24	0.68
35:BA:560:C:H4'	53:BU:52:ARG:CZ	2.23	0.68
48:DP:61:ARG:C	48:DP:62:LEU:HD13	2.12	0.68
41:DG:2:PRO:HD2	41:DG:5:VAL:HG12	1.75	0.68
2:AB:187:LEU:HD12	2:AB:205:ASP:HB3	1.75	0.68
52:DT:100:TYR:HD2	52:DT:103:ARG:NH2	1.88	0.68
39:BE:2:LYS:HE2	39:BE:95:ILE:HG22	1.74	0.68
35:BA:1685:C:H2'	35:BA:1686:C:H5'	1.75	0.68
35:BA:650:C:C3'	35:BA:651:G:H5''	2.24	0.68
39:DE:78:LEU:H	39:DE:78:LEU:HD23	1.58	0.68
38:BD:125:ILE:N	38:BD:125:ILE:HD12	2.09	0.68
35:DA:779:U:OP1	38:DD:49:ILE:HG23	1.93	0.68
3:CC:141:VAL:HG11	3:CC:202:ILE:HD12	1.73	0.68
1:AA:473:G:H5''	16:AP:81:ARG:NE	2.08	0.68
1:CA:560:U:H4'	1:CA:561:U:H5''	1.75	0.68
7:AG:32:ARG:HH11	7:AG:32:ARG:HG2	1.58	0.68
38:DD:125:ILE:H	38:DD:125:ILE:HD12	1.59	0.68
33:B8:4:MET:HB2	33:B8:61:LEU:HD13	1.73	0.68
33:D8:33:ASN:ND2	33:D8:33:ASN:C	2.47	0.68
31:D6:23:THR:HG21	35:DA:2419:U:H4'	1.76	0.68
58:BZ:165:VAL:CG1	58:BZ:167:PRO:HA	2.23	0.68
1:CA:1126:U:H2'	1:CA:1127:G:O4'	1.94	0.68
31:B6:15:GLU:OE1	31:B6:18:ARG:CD	2.41	0.68
58:BZ:61:LEU:HD22	58:BZ:61:LEU:H	1.58	0.68
6:AF:68:PRO:HG3	6:AF:71:ARG:NH2	2.08	0.68
2:AB:79:ASP:O	2:AB:82:ARG:HG2	1.94	0.68
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.57	0.68
16:AP:82:GLN:NE2	16:AP:82:GLN:H	1.91	0.68
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.29	0.68
45:BK:38:VAL:HG13	45:BK:39:LYS:HG3	1.74	0.68
35:BA:2394:C:OP1	48:BP:63:PRO:HD2	1.93	0.68
6:AF:98:LEU:HB3	18:AR:30:ASP:HA	1.75	0.68
35:DA:2834:G:H5'	35:DA:2835:A:OP2	1.94	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BJ:105:UNK:C	44:BJ:107:UNK:H	2.04	0.68
35:DA:1067:A:H5'	35:DA:1067:A:H8	1.58	0.68
36:BB:60:C:H2'	36:BB:61:G:H8	1.57	0.68
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.74	0.68
24:AY:267:SER:OG	24:AY:270:LYS:HB2	1.93	0.68
35:DA:2653:U:O2'	42:DH:110:SER:HB2	1.94	0.68
30:D5:48:GLU:C	30:D5:50:GLY:H	1.97	0.68
24:AY:70:GLN:C	24:AY:72:LEU:H	1.97	0.68
60:DI:7:GLU:HB3	60:DI:8:PRO:CD	2.23	0.68
48:BP:48:PRO:HD2	48:BP:49:ARG:H	1.57	0.68
39:DE:36:ARG:HH12	39:DE:86:PRO:HD2	1.58	0.68
35:BA:27:G:O2'	35:BA:28:A:H8	1.76	0.68
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.75	0.68
51:DS:74:ALA:HB1	51:DS:103:GLU:CG	2.24	0.68
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.06	0.68
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.59	0.68
1:CA:423:G:C2'	1:CA:424:G:H5'	2.24	0.68
1:CA:1499:A:H5'	1:CA:1499:A:C8	2.28	0.68
2:AB:7:VAL:O	2:AB:11:LEU:HG	1.92	0.68
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.92	0.68
58:BZ:128:VAL:HG22	58:BZ:129:SER:H	1.58	0.68
52:DT:118:ARG:O	52:DT:121:ILE:N	2.27	0.68
35:DA:1518:U:H2'	35:DA:1519:G:O4'	1.94	0.68
20:CT:74:LYS:C	20:CT:76:ALA:H	1.96	0.68
35:BA:2096:U:H2'	35:BA:2097:C:H6	1.57	0.68
35:DA:70:G:H21	35:DA:71:A:N6	1.91	0.68
36:DB:60:C:H2'	36:DB:61:G:H8	1.57	0.68
30:B5:40:LYS:CE	30:B5:46:CYS:H	2.07	0.68
4:AD:31:CYS:C	4:AD:33:MET:H	1.98	0.68
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.19	0.68
41:BG:16:ARG:O	41:BG:20:ILE:HG13	1.93	0.68
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.08	0.68
1:AA:954:G:H2'	1:AA:955:U:C6	2.28	0.68
2:CB:187:LEU:HD12	2:CB:205:ASP:HB3	1.76	0.68
20:CT:48:LYS:HB2	20:CT:52:ALA:HB2	1.74	0.68
20:AT:90:GLN:O	20:AT:94:ALA:HB2	1.92	0.68
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.14	0.68
35:DA:285:C:C2'	35:DA:286:C:H5''	2.22	0.68
35:BA:285:C:C2'	35:BA:286:C:H5''	2.24	0.68
47:BO:3:GLN:HG3	47:BO:4:PRO:HD2	1.76	0.68
1:CA:512:U:H2'	1:CA:513:C:C6	2.28	0.68
40:DF:116:ASP:OD2	48:DP:5:ASP:HB2	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:58:LYS:HE3	20:AT:62:LEU:HD11	1.76	0.68
24:CY:117:ILE:HD11	24:CY:213:GLU:HB3	1.76	0.68
1:AA:605:U:H2'	1:AA:606:G:H8	1.59	0.68
35:DA:2629:A:N3	35:DA:2629:A:H2'	2.07	0.68
35:DA:2315:G:H21	41:DG:128:ARG:HH12	1.41	0.68
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.20	0.68
1:CA:411:A:H62	1:CA:413:G:N2	1.91	0.68
45:DK:25:PRO:HB3	45:DK:29:GLN:OE1	1.93	0.68
53:BU:70:ARG:HA	53:BU:74:LEU:O	1.93	0.68
35:DA:1021:A:H3'	35:DA:1021:A:H8	1.59	0.68
2:AB:219:VAL:O	2:AB:223:ILE:HG23	1.93	0.68
33:B8:59:LYS:HD3	48:BP:50:ARG:CG	2.23	0.68
1:AA:1329:A:H5'	13:AM:29:ARG:HD2	1.73	0.68
3:CC:131:ARG:NH1	5:CE:50:GLU:HG2	2.08	0.68
49:DQ:58:PHE:CD1	49:DQ:58:PHE:O	2.44	0.68
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.23	0.68
48:DP:17:LYS:C	48:DP:19:VAL:H	1.97	0.68
2:CB:91:PRO:HG2	2:CB:155:LEU:HB2	1.75	0.68
5:AE:12:LEU:HD13	5:AE:13:ILE:N	2.08	0.68
35:DA:654(G):C:H2'	35:DA:654(H):G:C8	2.29	0.68
42:BH:153:LYS:H	42:BH:153:LYS:HD3	1.59	0.68
29:B4:48:ILE:H	29:B4:48:ILE:HD12	1.59	0.68
58:BZ:53:ILE:HG22	58:BZ:71:VAL:O	1.94	0.68
57:BY:46:LYS:HD3	57:BY:47:LYS:HZ2	1.59	0.68
30:B5:48:GLU:O	30:B5:50:GLY:N	2.25	0.68
30:B5:48:GLU:C	30:B5:50:GLY:H	1.98	0.68
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.75	0.68
41:BG:2:PRO:HD2	41:BG:5:VAL:CG1	2.24	0.68
25:D0:49:LYS:H	25:D0:80:HIS:HB3	1.56	0.68
41:DG:173:LEU:HB3	41:DG:178:PHE:CD2	2.26	0.68
52:DT:62:THR:CG2	52:DT:75:ILE:HG12	2.24	0.68
48:BP:61:ARG:C	48:BP:62:LEU:HD13	2.14	0.68
35:DA:1021:A:C8	35:DA:1021:A:H3'	2.28	0.68
35:DA:2892:A:C5	35:DA:2893:G:H1'	2.29	0.68
39:BE:32:PRO:O	39:BE:34:VAL:HG13	1.94	0.68
35:BA:2892:A:C5	35:BA:2893:G:H1'	2.29	0.68
35:DA:27:G:O2'	35:DA:28:A:H8	1.77	0.68
50:DR:4:LEU:C	50:DR:6:SER:H	1.97	0.68
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.59	0.68
35:BA:2118:U:H5	35:BA:2148:G:HO2'	1.39	0.68
16:CP:6:LEU:HD12	16:CP:6:LEU:N	2.09	0.68
35:DA:1693:U:H1'	38:DD:14:ARG:NH1	2.09	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:85:LYS:CD	42:DH:141:VAL:HG22	2.24	0.68
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	1.94	0.68
1:CA:605:U:H2'	1:CA:606:G:H8	1.59	0.68
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.29	0.68
35:DA:863:A:O2'	35:DA:864:G:H5'	1.94	0.68
1:CA:291:C:O2'	1:CA:292:G:H5'	1.93	0.68
1:AA:1502:A:H2	1:AA:1505:G:H22	1.42	0.68
35:BA:271(T):C:H2'	35:BA:271(U):G:H8	1.59	0.67
30:D5:48:GLU:O	30:D5:50:GLY:N	2.26	0.67
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.29	0.67
41:BG:111:LEU:HD22	41:BG:117:PHE:CE2	2.29	0.67
35:DA:1494:A:C2'	35:DA:1495:A:H5''	2.25	0.67
31:D6:15:GLU:OE1	31:D6:18:ARG:CG	2.42	0.67
1:CA:954:G:H2'	1:CA:955:U:C6	2.29	0.67
51:DS:28:VAL:HB	51:DS:89:ARG:CB	2.24	0.67
51:BS:89:ARG:HB3	51:BS:92:TYR:CB	2.24	0.67
19:CS:42:PRO:O	19:CS:43:GLU:HB3	1.94	0.67
20:AT:48:LYS:HB2	20:AT:52:ALA:HB2	1.75	0.67
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.09	0.67
51:DS:65:VAL:HA	51:DS:68:GLN:OE1	1.94	0.67
39:BE:48:GLN:HE21	39:BE:78:LEU:HD11	1.58	0.67
39:DE:101:ARG:NH2	39:DE:171:GLU:HB2	2.09	0.67
1:AA:1032:G:H2'	1:AA:1033:G:C8	2.29	0.67
1:AA:103:C:OP2	20:AT:14:LYS:HE3	1.93	0.67
39:BE:68:ALA:O	39:BE:70:ALA:N	2.25	0.67
35:BA:176:G:O2'	35:BA:177:G:H5'	1.95	0.67
35:BA:1097:U:C2'	35:BA:1098:A:H5'	2.25	0.67
1:AA:291:C:O2'	1:AA:292:G:H5'	1.94	0.67
4:CD:76:ARG:HH11	4:CD:76:ARG:HG2	1.60	0.67
2:AB:121:LEU:O	2:AB:121:LEU:HD23	1.95	0.67
1:AA:512:U:H2'	1:AA:513:C:C6	2.29	0.67
35:DA:821:A:H2'	35:DA:946:G:H5''	1.76	0.67
35:BA:1518:U:H2'	35:BA:1519:G:O4'	1.94	0.67
1:AA:818:G:O2'	1:AA:819:A:H5'	1.94	0.67
49:BQ:141:GLN:HE22	58:BZ:72:ARG:HA	1.60	0.67
31:B6:26:ASN:HD22	31:B6:32:ASN:HD21	1.38	0.67
24:AY:51:GLU:HA	24:AY:54:ARG:HH21	1.60	0.67
27:B2:9:GLN:HG2	27:B2:56:GLN:NE2	2.09	0.67
42:DH:97:ARG:HG2	42:DH:98:LEU:N	2.08	0.67
35:DA:654(M):C:H2'	35:DA:654(N):G:H8	1.56	0.67
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.76	0.67
58:DZ:35:ARG:HG3	58:DZ:35:ARG:NH1	2.09	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:58:ASP:O	46:DN:60:ILE:N	2.27	0.67
8:CH:10:LEU:HD23	8:CH:10:LEU:N	2.10	0.67
14:CN:13:THR:N	14:CN:14:PRO:CD	2.58	0.67
1:CA:425:G:O2'	1:CA:426:G:H5'	1.93	0.67
39:DE:48:GLN:HE21	39:DE:78:LEU:HD11	1.58	0.67
45:BK:33:ASN:ND2	45:BK:63:ARG:HD3	2.10	0.67
48:DP:17:LYS:O	48:DP:19:VAL:HG22	1.93	0.67
35:BA:1090:U:H2'	35:BA:1091:G:C8	2.29	0.67
1:AA:757:U:H2'	1:AA:758:G:O4'	1.94	0.67
43:BI:53:ALA:O	43:BI:57:ARG:HB2	1.94	0.67
48:DP:75:ILE:HD13	48:DP:77:ARG:HD2	1.75	0.67
35:BA:1301:A:O2'	35:BA:1302:A:H3'	1.94	0.67
1:AA:1326:C:H2'	1:AA:1327:C:C6	2.29	0.67
36:BB:91:C:H5''	49:BQ:17:LEU:O	1.94	0.67
38:DD:91:ARG:HG2	38:DD:91:ARG:HH11	1.59	0.67
24:CY:182:PRO:HD3	24:CY:349:LEU:HD21	1.76	0.67
48:DP:135:LEU:O	48:DP:139:LYS:HB2	1.93	0.67
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.95	0.67
36:BB:7:G:C3'	36:BB:8:U:H5''	2.24	0.67
41:DG:130:ASN:OD1	41:DG:160:VAL:HG13	1.93	0.67
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.52	0.67
41:DG:107:LEU:CD2	41:DG:107:LEU:H	2.08	0.67
35:DA:1899:G:N2	35:DA:1902:C:N4	2.39	0.67
35:BA:1505:C:H3'	35:BA:1506:C:H6	1.58	0.67
1:AA:1125:U:O4	10:AJ:5:ARG:HD3	1.95	0.67
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.22	0.67
1:CA:357:G:C2'	1:CA:358:U:H5''	2.24	0.67
35:BA:1021:A:C8	35:BA:1021:A:H3'	2.30	0.67
39:BE:92:THR:O	39:BE:95:ILE:HD13	1.93	0.67
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.29	0.67
46:BN:58:ASP:C	46:BN:60:ILE:H	1.96	0.67
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.93	0.67
1:CA:423:G:H2'	1:CA:424:G:H5'	1.76	0.67
50:DR:24:GLN:CB	50:DR:44:LEU:HD21	2.23	0.67
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.58	0.67
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.27	0.67
42:BH:85:LYS:CD	42:BH:141:VAL:HG22	2.24	0.67
35:BA:2834:G:H5'	35:BA:2835:A:OP2	1.94	0.67
34:D9:30:PRO:HB2	35:DA:2527:C:H5'	1.77	0.67
58:BZ:151:HIS:HB2	58:BZ:169:GLU:O	1.95	0.67
35:BA:492:A:H2'	35:BA:493:G:O4'	1.95	0.67
55:BW:5:ALA:CB	55:BW:50:VAL:HG23	2.20	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.25	0.67
53:BU:52:ARG:O	53:BU:55:ARG:HG2	1.94	0.67
57:DY:2:ARG:C	57:DY:4:LYS:H	1.97	0.67
1:AA:1128:C:H5'	9:AI:16:ARG:HH22	1.58	0.67
35:BA:2790:A:H2'	35:BA:2791:C:H5'	1.76	0.67
35:BA:2681:C:H5	35:BA:2725:A:N6	1.92	0.67
1:CA:357:G:H2'	1:CA:358:U:H5''	1.75	0.67
3:CC:60:ALA:HB1	10:CJ:91:PRO:HB2	1.77	0.67
20:CT:90:GLN:O	20:CT:94:ALA:HB2	1.94	0.67
51:BS:65:VAL:HA	51:BS:68:GLN:OE1	1.94	0.67
10:AJ:48:THR:CA	10:AJ:62:HIS:HB3	2.24	0.67
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	1.95	0.67
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.58	0.67
47:BO:24:VAL:HG23	47:BO:33:ALA:HB2	1.76	0.67
24:AY:184:ALA:HA	24:AY:208:VAL:O	1.94	0.67
22:AW:29:G:H2'	22:AW:30:G:C8	2.30	0.67
58:DZ:158:PRO:HG2	58:DZ:161:VAL:HG21	1.77	0.67
24:CY:242:VAL:HG13	24:CY:243:ASN:HD22	1.58	0.67
35:BA:2667:C:H1'	42:BH:109:PHE:CD2	2.30	0.67
1:CA:108:G:H5'	1:CA:109:A:H5''	1.76	0.67
37:DC:43:VAL:HG23	37:DC:178:ALA:HB2	1.75	0.67
45:DK:93:ARG:N	58:DZ:112:ARG:HH21	1.89	0.67
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.76	0.67
35:DA:271(T):C:H2'	35:DA:271(U):G:H8	1.59	0.67
52:DT:30:VAL:HG23	52:DT:31:SER:N	2.09	0.67
9:CI:48:GLU:H	9:CI:49:PRO:HD2	1.58	0.67
52:BT:13:ARG:NE	52:BT:13:ARG:HA	2.06	0.67
31:D6:16:CYS:SG	31:D6:48:VAL:HG22	2.34	0.67
24:AY:215:ASP:HB2	24:AY:291:ARG:HH22	1.58	0.67
19:AS:40:ILE:CG2	19:AS:62:ILE:HD11	2.23	0.67
57:DY:27:VAL:HA	57:DY:28:LYS:HZ1	1.57	0.67
27:D2:2:LYS:HB2	27:D2:2:LYS:NZ	2.09	0.67
42:DH:19:VAL:HG21	42:DH:44:VAL:HG13	1.76	0.67
2:CB:207:ALA:O	2:CB:211:ILE:HG13	1.95	0.67
54:BV:99:ILE:N	54:BV:99:ILE:HD13	2.08	0.67
38:DD:35:LYS:NZ	38:DD:103:ARG:HA	2.08	0.67
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	1.76	0.67
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	1.75	0.67
52:DT:7:ILE:O	52:DT:10:VAL:HB	1.95	0.67
52:DT:8:LYS:HA	52:DT:11:GLU:OE1	1.93	0.67
27:D2:47:ASN:HD22	35:DA:95:G:H1'	1.58	0.67
58:DZ:9:TYR:HE1	58:DZ:61:LEU:HB3	1.59	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CV:71:G:H2'	22:CV:72:C:H5'	1.77	0.67
54:DV:62:LEU:CD2	54:DV:95:LEU:HB2	2.24	0.67
51:DS:34:HIS:CE1	51:DS:54:LEU:HB2	2.29	0.67
35:DA:518:G:H4'	55:DW:18:ARG:NH1	2.10	0.67
22:AV:21:A:C2'	22:AV:22:G:H5''	2.25	0.67
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.58	0.67
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.76	0.67
20:CT:26:ASN:O	20:CT:30:LYS:HB2	1.95	0.67
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.75	0.67
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.29	0.67
1:CA:1032:G:H2'	1:CA:1033:G:C8	2.29	0.67
1:CA:473:G:H5''	16:CP:81:ARG:NE	2.08	0.67
1:AA:189(K):U:H2'	1:AA:189(L):G:H8	1.57	0.67
35:BA:2654:A:H1'	35:BA:2656:U:C6	2.30	0.67
35:DA:2131:G:OP1	35:DA:2132:U:H3'	1.94	0.67
1:CA:489:C:H2'	1:CA:490:G:H8	1.60	0.67
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.77	0.67
6:AF:82:ARG:HB3	6:AF:82:ARG:HH11	1.59	0.67
2:AB:91:PRO:HG2	2:AB:155:LEU:HB2	1.76	0.67
35:DA:1301:A:O2'	35:DA:1302:A:H3'	1.93	0.67
42:BH:19:VAL:HG11	42:BH:44:VAL:HG22	1.77	0.67
16:CP:68:ASP:O	16:CP:71:ARG:HG2	1.95	0.67
41:BG:124:SER:HB2	41:BG:131:TYR:HD1	1.58	0.67
41:BG:72:ARG:NH1	41:BG:72:ARG:HG2	2.07	0.67
52:DT:83:ILE:HG13	52:DT:84:GLN:HG2	1.76	0.67
53:BU:88:ILE:HG13	53:BU:88:ILE:O	1.94	0.67
35:DA:83:G:N2	35:DA:102:G:H2'	2.09	0.67
22:AW:63:G:H5''	37:BC:52:ARG:HA	1.76	0.67
35:BA:2283:C:C2'	35:BA:2284:C:H5'	2.25	0.67
37:BC:42:GLU:HB2	37:BC:44:HIS:NE2	2.09	0.67
35:BA:27:G:N2	35:BA:512:G:C2'	2.58	0.67
43:BI:5:LEU:HA	43:BI:36:ALA:CB	2.24	0.67
5:CE:6:PHE:HB2	5:CE:34:VAL:HG12	1.75	0.67
20:AT:26:ASN:O	20:AT:30:LYS:HB2	1.95	0.67
25:D0:53:MET:CB	25:D0:59:LEU:HD23	2.25	0.67
24:AY:251:VAL:CG1	24:AY:279:LEU:HD12	2.24	0.67
46:DN:67:LEU:HD12	46:DN:67:LEU:H	1.59	0.67
59:D4:46:ASN:ND2	59:D4:47:VAL:H	1.92	0.67
21:AU:6:ARG:HE	21:AU:15:ARG:HH21	1.42	0.67
35:DA:999:U:H2'	35:DA:1000:A:H5''	1.75	0.67
11:AK:108:ILE:HB	18:AR:87:ARG:HA	1.76	0.67
57:BY:95:LYS:HE2	57:BY:100:ALA:HB2	1.77	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1861:G:OP1	37:DC:205:LYS:HA	1.94	0.67
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.30	0.67
40:DF:21:ALA:C	40:DF:23:ASP:H	1.98	0.67
41:DG:52:ILE:HG22	41:DG:53:LEU:N	2.10	0.67
4:CD:28:SER:O	4:CD:30:LYS:N	2.28	0.67
60:DI:69:LYS:O	60:DI:73:GLU:HG2	1.94	0.67
35:BA:2875:C:O2'	52:BT:5:ALA:HB3	1.95	0.67
56:DX:30:VAL:HG11	56:DX:39:ILE:CD1	2.24	0.67
1:CA:190:U:H2'	1:CA:191:G:H8	1.58	0.67
5:AE:36:ASP:O	5:AE:37:ARG:HB2	1.94	0.67
34:B9:15:LYS:NZ	35:BA:2753:A:H1'	2.09	0.67
39:BE:61:ARG:HD2	39:BE:62:PRO:HD3	1.75	0.67
35:DA:390:A:C6	48:DP:71:VAL:HG21	2.30	0.67
10:AJ:48:THR:CB	10:AJ:62:HIS:HB3	2.24	0.67
40:BF:132:VAL:HG13	40:BF:133:ASN:N	2.08	0.67
11:CK:57:THR:HG23	11:CK:58:PRO:HD2	1.77	0.67
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.75	0.67
35:BA:999:U:C2'	35:BA:1000:A:H5''	2.25	0.67
2:CB:82:ARG:HA	2:CB:92:TYR:CE1	2.30	0.67
8:CH:5:PRO:O	8:CH:8:ASP:HB3	1.95	0.67
45:DK:75:SER:O	45:DK:79:ARG:HG3	1.95	0.67
35:DA:1046:A:H2	44:DJ:8:UNK:HA	1.60	0.67
1:CA:792:A:H4'	1:CA:793:U:O5'	1.94	0.67
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.94	0.67
34:B9:35:ARG:HG2	34:B9:36:GLN:H	1.59	0.67
22:AV:63:G:H5'	22:AV:63:G:H8	1.60	0.67
48:BP:6:LEU:H	48:BP:6:LEU:HD23	1.60	0.67
15:CO:3:ILE:N	15:CO:3:ILE:HD13	2.10	0.67
40:DF:127:GLU:OE1	40:DF:127:GLU:HA	1.94	0.67
26:B1:92:LYS:HZ1	35:BA:153:C:C5'	2.07	0.67
57:BY:76:CYS:HG	57:BY:77:PRO:HD2	1.59	0.67
60:DI:79:ILE:O	60:DI:144:VAL:HG13	1.94	0.67
28:D3:3:ARG:HB3	28:D3:36:VAL:CB	2.19	0.67
36:BB:31:C:H4'	41:BG:29:TRP:CH2	2.30	0.67
48:DP:41:ARG:HD2	48:DP:41:ARG:N	2.05	0.67
45:DK:29:GLN:HA	45:DK:29:GLN:NE2	2.09	0.67
37:BC:36:LYS:CG	37:BC:37:PHE:H	2.07	0.67
24:CY:54:ARG:HG2	24:CY:54:ARG:O	1.94	0.67
43:BI:9:LEU:HB2	43:BI:12:LEU:HB2	1.76	0.67
35:DA:2790:A:C2'	35:DA:2791:C:H5'	2.25	0.67
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.76	0.67
46:DN:58:ASP:C	46:DN:60:ILE:H	1.97	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.07	0.67
47:DO:87:ILE:CG2	47:DO:91:LEU:HA	2.25	0.67
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.43	0.67
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.24	0.67
22:AV:68:C:C2'	22:AV:69:G:H5''	2.25	0.67
35:BA:999:U:H2'	35:BA:1000:A:C5'	2.24	0.67
1:AA:1442:G:H1	1:AA:1461:G:H21	1.41	0.67
41:BG:122:PRO:HG2	41:BG:123:ASN:OD1	1.95	0.67
53:BU:69:CYS:HB3	53:BU:106:PHE:CZ	2.30	0.67
57:DY:95:LYS:HE2	57:DY:100:ALA:HB2	1.77	0.67
21:CU:6:ARG:HE	21:CU:15:ARG:NH2	1.93	0.67
35:BA:2629:A:N3	35:BA:2629:A:H2'	2.07	0.67
35:DA:271(G):C:H2'	35:DA:271(H):G:C8	2.29	0.67
26:B1:53:VAL:HG22	26:B1:74:VAL:HG13	1.77	0.67
29:B4:59:VAL:HG12	29:B4:60:GLU:N	2.07	0.67
31:B6:33:LYS:HA	31:B6:33:LYS:CE	2.25	0.67
18:AR:51:LEU:HD22	18:AR:55:ARG:HG3	1.76	0.67
53:DU:58:ARG:O	53:DU:62:ILE:HG12	1.94	0.67
51:DS:83:LYS:O	51:DS:105:ALA:HB3	1.94	0.67
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	1.75	0.67
24:AY:312:ARG:HH21	24:AY:325:ARG:NH2	1.92	0.67
5:CE:59:GLY:O	5:CE:62:ALA:HB3	1.95	0.67
46:DN:46:VAL:O	46:DN:47:ALA:HB3	1.94	0.67
39:BE:101:ARG:NH2	39:BE:171:GLU:HB2	2.09	0.67
3:CC:180:ALA:HB1	3:CC:203:PHE:HE1	1.59	0.67
43:BI:78:THR:HA	43:BI:143:SER:HB3	1.76	0.67
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.59	0.67
1:AA:181:G:N2	1:AA:183:G:H22	1.93	0.67
52:BT:118:ARG:O	52:BT:121:ILE:N	2.27	0.67
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.77	0.67
1:CA:1251:A:H1'	1:CA:1369:C:O2'	1.95	0.67
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.95	0.67
4:AD:57:ARG:HH11	4:AD:57:ARG:HG3	1.60	0.67
2:AB:96:ARG:HD3	2:AB:148:TYR:HE1	1.60	0.67
35:DA:271(A):A:H5'	35:DA:271(B):C:OP2	1.95	0.67
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	1.94	0.67
58:DZ:53:ILE:HG23	58:DZ:71:VAL:HB	1.74	0.67
59:D4:59:VAL:HG12	59:D4:60:GLU:N	2.06	0.67
31:D6:33:LYS:HA	31:D6:33:LYS:CE	2.24	0.67
25:B0:53:MET:HA	25:B0:58:THR:O	1.95	0.67
53:DU:92:ARG:HB2	54:DV:11:GLN:NE2	2.09	0.67
4:AD:108:LEU:CD1	4:AD:174:LEU:HD13	2.25	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:386:C:O2'	1:CA:387:U:H5'	1.94	0.67
35:BA:390:A:C6	48:BP:71:VAL:HG21	2.30	0.67
1:CA:972:C:H4'	10:CJ:57:LYS:HB2	1.76	0.67
11:AK:24:SER:HB3	11:AK:27:ASN:O	1.95	0.67
42:BH:41:MET:CG	42:BH:54:ARG:HA	2.25	0.67
35:BA:601:C:H5''	40:BF:108:LYS:NZ	2.10	0.67
3:AC:180:ALA:HB1	3:AC:203:PHE:HE1	1.60	0.67
1:CA:1442:G:H2'	1:CA:1442(A):G:H5''	1.77	0.67
47:DO:24:VAL:CG2	47:DO:33:ALA:HB2	2.25	0.67
8:AH:54:ASP:O	8:AH:56:LYS:HG3	1.95	0.67
35:BA:654(G):C:H2'	35:BA:654(H):G:C8	2.29	0.67
38:DD:10:THR:O	38:DD:13:ARG:HB3	1.95	0.67
56:BX:88:LYS:HE3	56:BX:93:GLU:HG3	1.74	0.67
15:AO:3:ILE:HD13	15:AO:3:ILE:N	2.10	0.67
7:CG:32:ARG:HH11	7:CG:32:ARG:HG2	1.59	0.67
23:CX:24:A:H3'	24:CY:200:ARG:NH1	2.09	0.67
58:DZ:111:VAL:O	58:DZ:113:ALA:N	2.28	0.66
31:B6:23:THR:HG21	35:BA:2419:U:H4'	1.76	0.66
41:DG:128:ARG:C	41:DG:130:ASN:N	2.48	0.66
2:AB:32:ILE:HD11	2:AB:40:HIS:HB3	1.76	0.66
58:DZ:30:ASN:HD22	58:DZ:32:HIS:N	1.87	0.66
24:CY:65:LEU:HD21	24:CY:94:ALA:HB3	1.75	0.66
1:AA:1128:C:C5'	9:AI:16:ARG:HH22	2.08	0.66
9:AI:70:LYS:O	9:AI:74:ILE:HG13	1.95	0.66
9:AI:78:LYS:HZ3	9:AI:78:LYS:HB2	1.60	0.66
35:DA:2162:G:H2'	35:DA:2163:C:H6	1.60	0.66
19:AS:18:LYS:O	19:AS:22:LEU:HD23	1.94	0.66
40:BF:182:ASN:O	40:BF:186:ILE:HG12	1.96	0.66
35:BA:34:C:HO2'	35:BA:35:G:H5'	1.60	0.66
6:AF:43:LEU:N	6:AF:43:LEU:HD12	2.10	0.66
8:AH:13:ILE:O	8:AH:17:THR:HG23	1.95	0.66
14:AN:13:THR:N	14:AN:14:PRO:CD	2.58	0.66
46:BN:46:VAL:O	46:BN:47:ALA:HB3	1.96	0.66
35:DA:2134:A:C2	35:DA:2159:G:H1'	2.31	0.66
1:CA:525:C:H2'	1:CA:526:C:C6	2.30	0.66
1:CA:277:C:H5''	17:CQ:68:ARG:NH2	2.10	0.66
11:CK:48:ILE:HG21	11:CK:63:LEU:HD22	1.77	0.66
36:DB:7:G:C3'	36:DB:8:U:H5''	2.25	0.66
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.25	0.66
21:AU:6:ARG:HE	21:AU:15:ARG:NH2	1.93	0.66
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.59	0.66
35:BA:2653:U:O2'	42:BH:110:SER:HB2	1.94	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:24:LEU:HD21	27:D2:28:LYS:HE2	1.75	0.66
8:CH:54:ASP:O	8:CH:56:LYS:HG3	1.93	0.66
35:BA:863:A:O2'	35:BA:864:G:H5'	1.95	0.66
39:DE:120:TRP:CD2	39:DE:155:LYS:HD3	2.30	0.66
24:CY:73:LEU:HD13	24:CY:73:LEU:O	1.94	0.66
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.29	0.66
35:BA:271(G):C:H2'	35:BA:271(H):G:C8	2.30	0.66
36:BB:7:G:H2'	36:BB:8:U:H5''	1.75	0.66
33:D8:7:HIS:CB	33:D8:59:LYS:HD2	2.26	0.66
58:DZ:152:ALA:CB	58:DZ:168:GLU:N	2.57	0.66
52:BT:83:ILE:HG13	52:BT:84:GLN:HG2	1.75	0.66
30:D5:33:CYS:SG	30:D5:49:CYS:CB	2.83	0.66
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.23	0.66
41:DG:128:ARG:HB3	41:DG:130:ASN:HD22	1.59	0.66
41:BG:83:ARG:HE	41:BG:84:LYS:HZ2	1.41	0.66
22:CW:39:U:C2'	22:CW:40:C:H5'	2.24	0.66
31:B6:16:CYS:O	31:B6:17:LYS:HB2	1.95	0.66
22:AW:5:G:H1'	22:AW:69:G:H22	1.58	0.66
24:AY:253:HIS:CD2	24:AY:283:LEU:HD11	2.31	0.66
45:BK:131:ALA:HB1	45:BK:136:VAL:O	1.95	0.66
37:DC:42:GLU:HB2	37:DC:44:HIS:NE2	2.11	0.66
46:BN:58:ASP:O	46:BN:60:ILE:N	2.27	0.66
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.09	0.66
35:DA:2137:C:H2'	35:DA:2138:C:C6	2.31	0.66
47:DO:3:GLN:HG3	47:DO:4:PRO:HD2	1.76	0.66
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.77	0.66
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	1.96	0.66
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.60	0.66
13:AM:54:VAL:O	13:AM:58:GLU:HG2	1.94	0.66
24:AY:118:LEU:HD12	24:AY:210:VAL:HG13	1.78	0.66
1:CA:103:C:OP2	20:CT:14:LYS:HE3	1.94	0.66
42:BH:138:LYS:O	42:BH:141:VAL:HG12	1.96	0.66
5:AE:102:ALA:HA	5:AE:120:THR:OG1	1.96	0.66
6:AF:78:GLU:O	6:AF:81:ILE:HD11	1.95	0.66
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.30	0.66
6:AF:24:GLU:HB2	6:AF:28:ARG:NH1	2.09	0.66
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.95	0.66
1:AA:376:G:OP2	16:AP:67:THR:HG21	1.95	0.66
35:BA:1067:A:H5'	35:BA:1067:A:H8	1.59	0.66
25:B0:41:ARG:N	25:B0:41:ARG:HD2	2.02	0.66
41:DG:88:ILE:HG13	41:DG:89:GLY:N	2.10	0.66
41:BG:128:ARG:C	41:BG:130:ASN:H	1.97	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:19:HIS:O	2:AB:39:ILE:HG22	1.95	0.66
48:BP:115:LEU:C	48:BP:115:LEU:HD12	2.16	0.66
55:DW:5:ALA:CB	55:DW:50:VAL:HG23	2.21	0.66
53:BU:76:TYR:CZ	53:BU:80:ILE:HG13	2.30	0.66
35:DA:1847:A:OP1	35:DA:1847:A:H2'	1.95	0.66
35:BA:1106:G:H2'	35:BA:1107:G:O4'	1.95	0.66
39:DE:57:LYS:HB3	39:DE:57:LYS:HZ3	1.61	0.66
60:DI:111:PRO:HG2	60:DI:112:LYS:HG3	1.77	0.66
35:DA:1106:G:H2'	35:DA:1107:G:O4'	1.94	0.66
60:DI:72:LEU:HD21	60:DI:107:ILE:HG21	1.77	0.66
39:BE:16:ARG:O	39:BE:17:ASP:HB3	1.94	0.66
42:DH:153:LYS:H	42:DH:153:LYS:HD3	1.59	0.66
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.29	0.66
1:CA:181:G:N2	1:CA:183:G:H22	1.93	0.66
5:AE:15:ARG:O	5:AE:15:ARG:HG2	1.96	0.66
44:BJ:65:UNK:C	44:BJ:67:UNK:H	2.08	0.66
1:CA:67:C:H2'	1:CA:68:G:C8	2.29	0.66
2:CB:121:LEU:O	2:CB:121:LEU:HD23	1.95	0.66
35:DA:1946:U:H2'	35:DA:1947:C:H6	1.59	0.66
35:BA:589:C:H2'	35:BA:590:A:C8	2.30	0.66
1:AA:357:G:H2'	1:AA:358:U:H5''	1.75	0.66
30:B5:3:LYS:CE	30:B5:3:LYS:HA	2.20	0.66
58:DZ:91:LEU:N	58:DZ:91:LEU:HD12	2.07	0.66
19:CS:18:LYS:O	19:CS:22:LEU:HD23	1.94	0.66
35:BA:1021:A:H8	35:BA:1021:A:H3'	1.60	0.66
48:DP:7:ARG:HB2	48:DP:8:PRO:HD3	1.77	0.66
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.95	0.66
1:AA:190:U:H2'	1:AA:191:G:H8	1.59	0.66
39:DE:61:ARG:HD2	39:DE:62:PRO:HD3	1.75	0.66
34:D9:15:LYS:NZ	35:DA:2753:A:H1'	2.10	0.66
8:AH:10:LEU:N	8:AH:10:LEU:HD23	2.08	0.66
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.24	0.66
39:DE:55:ASN:O	39:DE:57:LYS:N	2.25	0.66
1:AA:972:C:H4'	10:AJ:57:LYS:HB2	1.75	0.66
35:BA:2137:C:H2'	35:BA:2138:C:C6	2.30	0.66
1:CA:625:G:H2'	1:CA:626:U:H6	1.60	0.66
35:DA:404:C:H4'	35:DA:405:U:H5'	1.77	0.66
24:CY:213:GLU:O	24:CY:213:GLU:HG3	1.94	0.66
16:AP:68:ASP:O	16:AP:71:ARG:HG2	1.95	0.66
12:AL:81:SER:O	12:AL:82:VAL:HB	1.96	0.66
35:DA:2267:A:H5''	35:DA:2268:A:H5'	1.76	0.66
34:B9:11:CYS:HB3	34:B9:13:LYS:H	1.60	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DJ:25:UNK:HA	44:DJ:116:UNK:CB	2.24	0.66
1:CA:1216:G:H2'	1:CA:1217:C:H6	1.60	0.66
35:BA:1812:A:H1'	38:BD:45:ASN:OD1	1.95	0.66
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.76	0.66
59:D4:43:GLY:H	59:D4:60:GLU:CA	2.02	0.66
52:BT:30:VAL:HG23	52:BT:31:SER:N	2.08	0.66
24:AY:35:ASP:O	24:AY:37:SER:N	2.28	0.66
28:B3:2:PRO:HA	28:B3:59:VAL:O	1.95	0.66
48:DP:115:LEU:HD12	48:DP:115:LEU:C	2.16	0.66
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.01	0.66
18:CR:51:LEU:HD22	18:CR:55:ARG:HG3	1.75	0.66
54:BV:19:LYS:HG3	54:BV:20:LEU:O	1.96	0.66
42:DH:19:VAL:HG11	42:DH:44:VAL:HG22	1.76	0.66
52:DT:50:ILE:HD11	52:DT:64:ARG:N	2.10	0.66
35:DA:1685:C:H2'	35:DA:1686:C:H5'	1.78	0.66
38:BD:106:ILE:C	38:BD:106:ILE:HD12	2.16	0.66
58:BZ:18:LEU:CD2	58:BZ:25:PRO:HG3	2.25	0.66
49:BQ:55:VAL:CG2	49:BQ:56:ARG:H	2.09	0.66
35:BA:2189:U:H2'	35:BA:2190:G:C5'	2.25	0.66
45:DK:105:LEU:HG	45:DK:120:LEU:HD22	1.77	0.66
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.44	0.66
59:D4:46:ASN:HD22	59:D4:47:VAL:H	1.44	0.66
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.29	0.66
1:CA:376:G:OP2	16:CP:67:THR:HG21	1.96	0.66
24:CY:10:LEU:HD12	24:CY:11:GLU:H	1.60	0.66
41:DG:34:LEU:HD12	41:DG:172:LEU:HD21	1.76	0.66
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.31	0.66
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.31	0.66
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.76	0.66
20:AT:74:LYS:C	20:AT:76:ALA:H	1.97	0.66
33:D8:43:GLN:C	33:D8:44:LYS:HD2	2.15	0.66
14:CN:3:ARG:NH1	14:CN:3:ARG:HB3	2.09	0.66
35:BA:1880:C:H6	35:BA:1880:C:H5'	1.61	0.66
45:DK:93:ARG:HB3	58:DZ:112:ARG:CZ	2.26	0.66
31:B6:23:THR:HG21	35:BA:2419:U:C5'	2.25	0.66
60:DI:81:VAL:HG13	60:DI:82:ARG:N	2.08	0.66
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.26	0.66
35:DA:2759:G:O2'	35:DA:2760:C:H5'	1.96	0.66
30:B5:3:LYS:HB2	35:BA:747:U:C5	2.31	0.66
25:B0:53:MET:CB	25:B0:59:LEU:HD23	2.26	0.66
58:BZ:105:VAL:O	58:BZ:140:ASP:HA	1.96	0.66
54:BV:46:VAL:HG22	54:BV:47:VAL:N	2.07	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1899:G:N2	35:BA:1902:C:N4	2.39	0.66
9:CI:70:LYS:O	9:CI:74:ILE:HG13	1.96	0.66
38:DD:243:GLY:O	38:DD:244:ARG:CB	2.42	0.66
51:BS:17:ARG:C	51:BS:19:LYS:N	2.49	0.66
9:AI:97:LYS:C	9:AI:99:LEU:H	1.98	0.66
35:DA:2790:A:H2'	35:DA:2791:C:H5'	1.77	0.66
40:DF:184:TYR:O	40:DF:188:ARG:HB2	1.96	0.66
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.10	0.66
1:AA:192:U:H2'	1:AA:193:C:H6	1.61	0.66
35:BA:2134:A:C2	35:BA:2159:G:H1'	2.30	0.66
11:AK:84:VAL:CG2	11:AK:110:ASP:HA	2.26	0.66
35:DA:2617:C:O2'	35:DA:2618:G:H5'	1.96	0.66
15:AO:87:ILE:HG22	15:AO:88:ARG:H	1.61	0.66
39:BE:79:ARG:HH12	39:BE:195:LEU:HD21	1.61	0.66
2:CB:96:ARG:HD3	2:CB:148:TYR:HE1	1.59	0.66
35:DA:755:C:H2'	35:DA:756:C:C6	2.30	0.66
46:DN:76:SER:OG	46:DN:77:GLY:N	2.24	0.66
1:AA:857:C:H2'	1:AA:858:G:O4'	1.95	0.66
35:BA:910:A:C5	49:BQ:13:GLN:HG3	2.31	0.66
41:DG:129:GLY:HA2	41:DG:163:ALA:HB3	1.76	0.66
60:DI:123:LEU:HD11	60:DI:146:ALA:N	2.11	0.66
60:DI:81:VAL:HA	60:DI:145:VAL:O	1.95	0.66
28:D3:1:MET:HB3	28:D3:39:ASP:HB2	1.77	0.66
41:BG:83:ARG:HE	41:BG:84:LYS:NZ	1.94	0.66
1:CA:542:G:H2'	1:CA:543:C:H6	1.61	0.66
10:AJ:25:GLU:HA	10:AJ:28:ARG:HB2	1.77	0.66
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.11	0.66
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.76	0.66
46:BN:126:PRO:O	46:BN:127:ASP:HB2	1.95	0.66
1:CA:1417:G:H22	1:CA:1482:G:H2'	1.58	0.66
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.25	0.66
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.58	0.66
4:CD:57:ARG:HG3	4:CD:57:ARG:HH11	1.61	0.66
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.77	0.66
35:DA:2394:C:OP1	48:DP:63:PRO:HD2	1.96	0.66
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.95	0.66
1:CA:575:G:H4'	1:CA:576:G:H5''	1.78	0.66
35:DA:1497:U:H2'	35:DA:1497:U:O2	1.95	0.66
6:CF:19:LEU:O	6:CF:23:LYS:HG3	1.96	0.66
58:BZ:86:VAL:HG23	58:BZ:86:VAL:O	1.96	0.66
58:DZ:108:PRO:HB3	58:DZ:141:VAL:O	1.94	0.66
42:DH:67:LEU:O	42:DH:71:LEU:HB2	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:32:ILE:HD11	2:CB:40:HIS:HB3	1.77	0.66
30:B5:40:LYS:NZ	30:B5:49:CYS:SG	2.68	0.66
45:BK:29:GLN:NE2	45:BK:29:GLN:HA	2.10	0.66
1:AA:556:C:O2'	1:AA:557:G:H5'	1.95	0.66
9:CI:78:LYS:HB2	9:CI:78:LYS:NZ	2.11	0.66
9:CI:97:LYS:C	9:CI:99:LEU:H	1.99	0.66
52:BT:99:LEU:HD13	52:BT:102:ILE:HD11	1.77	0.66
35:DA:2127:G:HO2'	35:DA:2173:A:H2	1.40	0.66
2:CB:219:VAL:O	2:CB:223:ILE:HG23	1.96	0.66
1:CA:191:G:H1'	20:CT:105:SER:HA	1.75	0.66
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.78	0.66
6:CF:43:LEU:HD12	6:CF:43:LEU:N	2.10	0.66
1:CA:192:U:H2'	1:CA:193:C:H6	1.61	0.66
40:DF:132:VAL:HG13	40:DF:133:ASN:N	2.10	0.66
15:AO:61:GLY:O	15:AO:64:ARG:HB3	1.96	0.66
15:CO:43:LEU:HD11	15:CO:53:HIS:HA	1.77	0.66
11:CK:108:ILE:HB	18:CR:87:ARG:HA	1.76	0.66
35:BA:1046:A:H2	44:BJ:8:UNK:HA	1.61	0.66
22:AV:45:U:H2'	22:AV:46:G:H5'	1.77	0.66
35:DA:1090:U:H2'	35:DA:1091:G:C8	2.31	0.66
44:DJ:65:UNK:C	44:DJ:67:UNK:H	2.07	0.66
35:DA:57:C:O2'	35:DA:58:G:H5'	1.96	0.66
39:BE:203:LYS:HE2	39:BE:204:ALA:HB2	1.75	0.66
2:CB:181:PHE:HE1	8:CH:71:GLY:H	1.44	0.66
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.10	0.66
52:DT:28:VAL:CG1	52:DT:46:GLU:HG3	2.26	0.66
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.96	0.66
38:BD:243:GLY:O	38:BD:244:ARG:CB	2.42	0.66
1:CA:1128:C:C5'	9:CI:16:ARG:HH22	2.08	0.66
56:BX:14:SER:H	56:BX:17:ALA:HB3	1.59	0.66
35:BA:996:A:C4'	53:BU:92:ARG:HD2	2.25	0.66
1:CA:1346:A:C5'	9:CI:120:ARG:HH12	2.07	0.66
54:BV:18:LEU:HD22	54:BV:19:LYS:H	1.61	0.66
54:BV:22:VAL:O	54:BV:23:GLU:HB2	1.95	0.66
35:DA:1598:C:O3'	56:DX:35:THR:HG23	1.96	0.66
42:DH:98:LEU:HB2	42:DH:125:VAL:CB	2.26	0.66
42:DH:98:LEU:HB2	42:DH:125:VAL:CG2	2.26	0.66
48:DP:140:ALA:O	48:DP:141:ALA:HB2	1.96	0.66
11:CK:24:SER:HB3	11:CK:27:ASN:O	1.96	0.66
35:DA:8:A:H2'	35:DA:9:U:C6	2.29	0.66
38:DD:270:ILE:O	38:DD:271:ILE:HG13	1.95	0.66
29:B4:46:ASN:HD22	29:B4:47:VAL:H	1.44	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:337:LEU:O	24:AY:338:ASP:HB2	1.95	0.66
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.60	0.66
1:AA:1237:C:OP1	1:AA:1238:A:H1'	1.96	0.66
35:BA:1907:G:O2'	35:BA:1908:C:H5'	1.96	0.66
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.31	0.66
1:AA:67:C:H2'	1:AA:68:G:C8	2.30	0.66
36:BB:56:G:H4'	36:BB:57:A:O5'	1.95	0.66
24:CY:286:LEU:O	24:CY:286:LEU:HD23	1.96	0.66
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.31	0.66
1:AA:542:G:H2'	1:AA:543:C:H6	1.60	0.66
18:AR:52:PRO:O	18:AR:56:THR:HG23	1.96	0.66
41:BG:130:ASN:OD1	41:BG:160:VAL:HA	1.96	0.66
48:BP:84:ASN:HA	48:BP:115:LEU:O	1.95	0.66
52:BT:107:ASP:H	52:BT:110:ILE:HG13	1.61	0.66
52:DT:104:ASN:O	52:DT:106:SER:N	2.28	0.66
3:AC:92:ALA:HA	3:AC:99:VAL:HG11	1.77	0.66
49:BQ:109:VAL:HG12	49:BQ:113:GLN:HB2	1.78	0.66
12:AL:87:GLY:HA2	12:AL:98:TYR:HA	1.78	0.66
4:CD:134:ASP:O	4:CD:136:PRO:HD3	1.96	0.66
2:AB:164:VAL:O	2:AB:186:ALA:HB1	1.96	0.66
35:BA:8:A:H2'	35:BA:9:U:C6	2.29	0.66
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.31	0.66
35:BA:321:G:C2	40:BF:165:ARG:NH1	2.64	0.66
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.95	0.66
1:AA:1254:C:OP1	10:AJ:45:ARG:HD3	1.96	0.66
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.77	0.66
26:B1:45:ASN:ND2	35:BA:2090:G:H21	1.94	0.66
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.96	0.66
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.26	0.66
35:BA:2828:C:O2'	35:BA:2829:C:H5'	1.97	0.66
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.78	0.66
26:D1:86:SER:CB	26:D1:90:ILE:HG12	2.26	0.65
57:DY:96:ILE:HG22	57:DY:97:ARG:N	2.11	0.65
28:D3:7:LYS:O	28:D3:9:VAL:HG13	1.95	0.65
33:D8:4:MET:HB2	33:D8:61:LEU:HD13	1.76	0.65
41:DG:82:LEU:HD13	41:DG:87:PRO:HB3	1.78	0.65
4:CD:30:LYS:CB	4:CD:35:ARG:HD2	2.26	0.65
57:BY:28:LYS:CB	57:BY:37:VAL:HB	2.21	0.65
9:CI:46:ALA:HA	9:CI:78:LYS:HZ2	1.61	0.65
31:D6:43:CYS:O	31:D6:44:ARG:HB2	1.95	0.65
22:AW:5:G:N2	22:AW:68:C:H42	1.89	0.65
58:DZ:128:VAL:CG2	58:DZ:132:ASN:HB2	2.26	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:56:G:H4'	36:DB:57:A:O5'	1.95	0.65
41:DG:2:PRO:HD2	41:DG:5:VAL:CG1	2.26	0.65
2:CB:211:ILE:O	2:CB:215:LEU:HD23	1.97	0.65
51:BS:106:ARG:NH1	51:BS:109:GLY:N	2.44	0.65
1:AA:390:C:H2'	1:AA:391:G:C8	2.31	0.65
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.78	0.65
2:CB:164:VAL:O	2:CB:186:ALA:HB1	1.95	0.65
5:CE:42:GLY:O	5:CE:62:ALA:HB1	1.96	0.65
49:BQ:43:THR:OG1	49:BQ:46:GLN:HG3	1.96	0.65
50:BR:24:GLN:CB	50:BR:44:LEU:HD21	2.25	0.65
1:CA:532:A:H2	1:CA:1207:G:H1'	1.58	0.65
35:DA:2599:G:C8	38:DD:237:GLU:HG3	2.30	0.65
11:CK:84:VAL:CG2	11:CK:110:ASP:HA	2.26	0.65
35:BA:518:G:H4'	55:BW:18:ARG:NH1	2.10	0.65
1:AA:963:G:H21	10:AJ:55:LYS:HZ2	1.43	0.65
46:BN:76:SER:OG	46:BN:77:GLY:N	2.28	0.65
7:CG:87:VAL:HG13	7:CG:151:TYR:O	1.94	0.65
37:DC:68:LEU:HD11	37:DC:180:PHE:N	2.11	0.65
42:BH:100:GLY:C	42:BH:102:ALA:H	1.98	0.65
1:AA:294:U:H2'	1:AA:295:C:H6	1.62	0.65
60:DI:117:GLU:O	60:DI:119:PRO:HD3	1.95	0.65
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.77	0.65
1:CA:818:G:O2'	1:CA:819:A:H5'	1.95	0.65
35:DA:2024:G:H2'	35:DA:2025:C:C6	2.31	0.65
6:CF:82:ARG:HB3	6:CF:82:ARG:HH11	1.59	0.65
12:CL:81:SER:O	12:CL:82:VAL:HB	1.96	0.65
1:AA:1251:A:H1'	1:AA:1369:C:O2'	1.96	0.65
29:B4:52:SER:HB3	41:BG:143:GLU:OE1	1.96	0.65
28:D3:2:PRO:HA	28:D3:59:VAL:O	1.95	0.65
40:DF:20:LEU:HB3	40:DF:23:ASP:OD2	1.95	0.65
41:BG:17:PRO:HA	41:BG:20:ILE:HB	1.76	0.65
50:DR:10:LEU:HD22	50:DR:17:ARG:HD2	1.78	0.65
48:DP:147:LEU:CG	48:DP:148:LEU:H	2.08	0.65
1:CA:1128:C:H5'	9:CI:16:ARG:HH22	1.59	0.65
51:DS:89:ARG:HB3	51:DS:92:TYR:CB	2.24	0.65
35:BA:2162:G:H2'	35:BA:2163:C:H6	1.61	0.65
35:DA:330:A:HO2'	35:DA:331:A:H8	1.43	0.65
39:DE:92:THR:O	39:DE:95:ILE:HD13	1.96	0.65
22:CW:49:C:H42	22:CW:65:G:H1	1.43	0.65
38:DD:106:ILE:C	38:DD:106:ILE:HD12	2.17	0.65
49:DQ:55:VAL:HG23	49:DQ:56:ARG:N	2.11	0.65
58:DZ:39:VAL:HG21	58:DZ:44:PHE:HD2	1.61	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:192:U:H2'	1:CA:193:C:C6	2.31	0.65
1:AA:723:U:H2'	1:AA:723:U:O2	1.96	0.65
45:BK:7:VAL:HG12	45:BK:58:THR:HG23	1.78	0.65
60:DI:130:TYR:O	60:DI:132:PRO:HD3	1.96	0.65
13:CM:54:VAL:O	13:CM:58:GLU:HG2	1.95	0.65
35:DA:999:U:C2'	35:DA:1000:A:H5''	2.27	0.65
21:CU:6:ARG:HE	21:CU:15:ARG:HH21	1.43	0.65
35:BA:911:A:H2'	49:BQ:9:TYR:OH	1.96	0.65
45:DK:131:ALA:HB1	45:DK:136:VAL:O	1.96	0.65
43:BI:109:ILE:N	43:BI:109:ILE:HD13	2.11	0.65
38:BD:10:THR:O	38:BD:13:ARG:HB3	1.97	0.65
35:DA:1381:G:H1'	35:DA:1571:A:N1	2.12	0.65
24:CY:72:LEU:O	24:CY:76:MET:HB2	1.96	0.65
35:BA:755:C:H2'	35:BA:756:C:C6	2.30	0.65
37:BC:43:VAL:HG23	37:BC:178:ALA:HB2	1.77	0.65
44:BJ:25:UNK:HA	44:BJ:116:UNK:CB	2.26	0.65
26:B1:94:LEU:O	26:B1:96:LYS:N	2.28	0.65
26:D1:26:ARG:HG3	26:D1:27:GLU:N	2.11	0.65
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.78	0.65
26:B1:8:SER:HB3	26:B1:66:HIS:ND1	2.10	0.65
1:CA:857:C:H2'	1:CA:858:G:O4'	1.95	0.65
41:DG:170:ARG:O	41:DG:174:GLU:HB2	1.96	0.65
58:BZ:102:LEU:HD11	58:BZ:124:ILE:HG22	1.79	0.65
41:BG:39:ILE:HD11	41:BG:60:LEU:HD11	1.78	0.65
35:DA:560:C:H4'	53:DU:52:ARG:HH22	1.55	0.65
41:BG:21:ARG:HH11	41:BG:21:ARG:CB	2.04	0.65
26:D1:64:ALA:O	26:D1:67:ILE:HG13	1.96	0.65
31:D6:19:ARG:HG2	31:D6:20:ASN:N	2.08	0.65
51:BS:17:ARG:HA	51:BS:20:ARG:HG2	1.78	0.65
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.77	0.65
49:DQ:109:VAL:HG12	49:DQ:113:GLN:HB2	1.76	0.65
27:D2:55:ARG:NH1	35:DA:75:G:H4'	2.11	0.65
52:BT:7:ILE:O	52:BT:10:VAL:HB	1.96	0.65
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.26	0.65
55:BW:34:ASN:O	55:BW:37:ARG:HB3	1.95	0.65
51:BS:34:HIS:CE1	51:BS:54:LEU:HB2	2.32	0.65
22:AW:38:A:H2'	22:AW:39:U:H5''	1.77	0.65
4:AD:134:ASP:O	4:AD:136:PRO:HD3	1.96	0.65
2:AB:82:ARG:HA	2:AB:92:TYR:CE1	2.30	0.65
39:BE:59:VAL:HG22	39:BE:63:LEU:HA	1.78	0.65
6:CF:24:GLU:HB2	6:CF:28:ARG:NH1	2.11	0.65
35:DA:999:U:H2'	35:DA:1000:A:C5'	2.27	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	1.95	0.65
35:BA:2842:G:O2'	35:BA:2843:G:H5'	1.97	0.65
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	1.79	0.65
1:AA:1478:C:O2'	1:AA:1479:C:H5'	1.97	0.65
20:CT:58:LYS:HE3	20:CT:62:LEU:HD11	1.77	0.65
1:CA:1109:C:O2'	1:CA:1110:A:H5'	1.97	0.65
35:DA:1562:A:H2'	35:DA:1563:G:C8	2.32	0.65
35:BA:247:G:H4'	35:BA:386:G:C5	2.32	0.65
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.31	0.65
33:D8:59:LYS:HD3	48:DP:50:ARG:CG	2.25	0.65
33:B8:30:ARG:CZ	35:BA:2419:U:O4	2.45	0.65
52:BT:80:SER:OG	52:BT:81:PRO:HD3	1.96	0.65
28:D3:2:PRO:HD2	28:D3:39:ASP:CB	2.26	0.65
28:B3:1:MET:HB3	28:B3:39:ASP:HB2	1.78	0.65
28:B3:3:ARG:O	28:B3:37:LEU:N	2.29	0.65
28:B3:2:PRO:HG3	28:B3:58:VAL:HG12	1.79	0.65
55:DW:4:LYS:HD2	55:DW:6:ILE:HD11	1.78	0.65
31:B6:13:CYS:O	31:B6:21:TYR:HA	1.96	0.65
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.12	0.65
51:BS:20:ARG:HA	51:BS:20:ARG:NE	2.12	0.65
50:BR:33:ARG:HD2	50:BR:33:ARG:N	2.11	0.65
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.26	0.65
26:B1:3:LYS:HB3	26:B1:61:ARG:NH1	2.12	0.65
19:CS:40:ILE:CG2	19:CS:62:ILE:HD11	2.25	0.65
39:BE:49:LEU:CD1	39:BE:49:LEU:H	2.09	0.65
35:DA:2681:C:H5	35:DA:2725:A:N6	1.93	0.65
1:AA:191:G:C4	20:AT:105:SER:HB3	2.32	0.65
5:AE:42:GLY:O	5:AE:62:ALA:HB1	1.97	0.65
8:CH:13:ILE:O	8:CH:17:THR:HG23	1.96	0.65
1:AA:192:U:H2'	1:AA:193:C:C6	2.31	0.65
35:DA:1436:G:C2'	35:DA:1437:C:H5''	2.26	0.65
1:CA:1053:G:N7	1:CA:1200:C:H5''	2.10	0.65
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.78	0.65
36:DB:7:G:H2'	36:DB:8:U:H5''	1.77	0.65
38:DD:182:LEU:O	38:DD:271:ILE:HD12	1.97	0.65
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.10	0.65
7:CG:84:ASN:ND2	22:CW:33:U:H4'	2.12	0.65
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.31	0.65
48:BP:102:ARG:HD2	48:BP:102:ARG:O	1.95	0.65
1:AA:1095:U:H5'	1:AA:1109:C:O2	1.95	0.65
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.31	0.65
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:97:LYS:O	39:DE:100:GLU:HG3	1.96	0.65
1:AA:932:C:H5''	7:AG:3:ARG:HD2	1.79	0.65
49:BQ:34:LEU:HD11	49:BQ:129:THR:HB	1.77	0.65
42:BH:67:LEU:O	42:BH:71:LEU:HB2	1.96	0.65
31:D6:11:LEU:N	31:D6:11:LEU:HD22	2.12	0.65
52:BT:28:VAL:CG1	52:BT:46:GLU:HG3	2.26	0.65
2:CB:19:HIS:O	2:CB:39:ILE:HG22	1.96	0.65
4:AD:14:ARG:HA	4:AD:39:PRO:HG3	1.78	0.65
41:BG:66:GLN:O	41:BG:92:VAL:HG21	1.97	0.65
53:DU:76:TYR:CZ	53:DU:80:ILE:HG13	2.32	0.65
57:BY:29:GLU:N	57:BY:29:GLU:OE1	2.29	0.65
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.11	0.65
35:BA:2334:G:N2	51:BS:18:ILE:HD11	2.10	0.65
47:BO:107:ARG:NH1	52:BT:35:LYS:HD2	2.11	0.65
46:BN:128:HIS:O	46:BN:130:HIS:N	2.26	0.65
58:DZ:128:VAL:HG22	58:DZ:129:SER:H	1.60	0.65
54:BV:18:LEU:HD13	54:BV:19:LYS:N	2.10	0.65
50:DR:33:ARG:HD2	50:DR:33:ARG:N	2.11	0.65
35:BA:83:G:N2	35:BA:102:G:H2'	2.12	0.65
2:CB:204:ASN:ND2	2:CB:207:ALA:HB3	2.12	0.65
42:BH:83:TYR:HD1	42:BH:83:TYR:H	1.45	0.65
3:AC:82:GLU:O	3:AC:86:VAL:HG13	1.97	0.65
58:DZ:59:LEU:N	58:DZ:67:LEU:O	2.23	0.65
1:CA:1118:C:OP1	9:CI:9:ARG:HD2	1.94	0.65
48:DP:138:LEU:C	48:DP:140:ALA:H	2.00	0.65
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.30	0.65
24:AY:192:PRO:HA	24:AY:201:ARG:HA	1.79	0.65
25:D0:53:MET:HA	25:D0:58:THR:O	1.96	0.65
1:AA:674:G:H2'	1:AA:675:A:H8	1.61	0.65
45:DK:33:ASN:ND2	45:DK:63:ARG:HD3	2.11	0.65
42:DH:148:ILE:O	42:DH:151:ILE:HG12	1.97	0.65
1:AA:224:C:H2'	1:AA:225:C:C6	2.32	0.65
41:BG:52:ILE:HG22	41:BG:54:GLU:HG2	1.79	0.65
46:DN:97:ARG:HA	46:DN:100:GLU:HB2	1.78	0.65
35:BA:606:U:H4'	35:BA:658:C:H4'	1.79	0.65
50:BR:61:HIS:O	50:BR:65:LEU:HD13	1.97	0.65
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.62	0.65
4:AD:76:ARG:HH11	4:AD:76:ARG:HG2	1.62	0.65
46:BN:78:TYR:N	46:BN:78:TYR:CD1	2.65	0.65
38:BD:91:ARG:HH11	38:BD:91:ARG:HG2	1.62	0.65
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.31	0.65
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.61	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DS:36:TYR:N	51:DS:36:TYR:CD1	2.65	0.65
35:BA:2314:C:C5'	41:BG:38:VAL:HG21	2.26	0.65
41:BG:39:ILE:HD13	41:BG:60:LEU:HD21	1.78	0.65
48:DP:84:ASN:HA	48:DP:115:LEU:O	1.97	0.65
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.79	0.65
31:B6:43:CYS:O	31:B6:44:ARG:HB2	1.95	0.65
35:DA:2334:G:H21	51:DS:18:ILE:CG1	2.09	0.65
51:BS:17:ARG:HA	51:BS:20:ARG:HH11	1.61	0.65
9:AI:45:ALA:O	9:AI:48:GLU:HB2	1.96	0.65
35:BA:2876:G:H1'	52:BT:3:ARG:HH21	1.61	0.65
2:AB:18:GLY:N	2:AB:42:ILE:HG22	2.11	0.65
43:BI:62:LYS:HE2	43:BI:133:HIS:NE2	2.10	0.65
35:BA:1080:C:H2'	35:BA:1081:U:H6	1.60	0.65
3:AC:92:ALA:HB2	3:AC:99:VAL:CG2	2.25	0.65
43:BI:4:ILE:CG2	43:BI:5:LEU:N	2.60	0.65
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.60	0.65
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.31	0.65
42:BH:115:VAL:HG12	42:BH:116:GLU:H	1.62	0.65
1:CA:963:G:H21	10:CJ:55:LYS:HZ2	1.44	0.65
10:AJ:34:VAL:HG13	10:AJ:74:ILE:HA	1.79	0.65
22:AV:53:G:H2'	22:AV:54:U:C6	2.30	0.65
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.12	0.65
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.61	0.65
22:CW:72:C:H2'	22:CW:73:A:O4'	1.97	0.65
57:DY:101:LYS:HG2	57:DY:102:CYS:N	2.11	0.65
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.60	0.65
1:CA:1502:A:H2	1:CA:1505:G:H22	1.44	0.65
35:DA:1097:U:C2'	35:DA:1098:A:H5'	2.27	0.65
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.32	0.65
38:DD:68:LYS:O	38:DD:68:LYS:HG3	1.97	0.65
46:DN:78:TYR:CD1	46:DN:78:TYR:N	2.64	0.65
1:CA:1409:C:O2'	1:CA:1410:G:H5'	1.97	0.65
11:AK:17:GLY:HA3	11:AK:77:MET:SD	2.37	0.65
51:DS:69:VAL:HG13	51:DS:99:LYS:HE3	1.77	0.65
30:D5:46:CYS:SG	30:D5:47:PRO:HD2	2.36	0.65
40:BF:24:LEU:HD12	40:BF:25:PRO:CD	2.21	0.65
25:B0:41:ARG:H	25:B0:41:ARG:CD	1.97	0.65
41:BG:22:ARG:CB	41:BG:22:ARG:HH11	2.02	0.65
4:CD:31:CYS:C	4:CD:33:MET:H	1.99	0.65
58:DZ:30:ASN:C	58:DZ:30:ASN:HD22	1.99	0.65
19:AS:42:PRO:O	19:AS:43:GLU:HB3	1.95	0.65
53:BU:92:ARG:HB2	54:BV:11:GLN:NE2	2.12	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.12	0.65
1:AA:492:G:H5''	60:DI:8:PRO:HD3	1.76	0.65
39:BE:110:GLY:O	50:BR:2:ARG:HD3	1.97	0.65
58:BZ:38:TYR:O	58:BZ:38:TYR:CD1	2.50	0.65
22:CW:7:A:H61	22:CW:66:U:H3	1.43	0.65
35:DA:1686:C:O2'	35:DA:1687:G:H5'	1.97	0.65
60:DI:47:LEU:C	60:DI:49:ALA:H	2.00	0.65
23:AX:19:U:H2'	23:AX:20:U:O4'	1.97	0.65
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.11	0.65
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.60	0.65
35:DA:601:C:H5''	40:DF:108:LYS:NZ	2.10	0.65
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.30	0.65
53:DU:69:CYS:HB3	53:DU:106:PHE:CZ	2.31	0.65
42:BH:85:LYS:HE2	42:BH:145:ALA:CA	2.27	0.65
1:CA:473:G:H2'	1:CA:474:G:H8	1.61	0.65
1:AA:473:G:H2'	1:AA:474:G:H8	1.62	0.65
6:AF:82:ARG:HB3	6:AF:82:ARG:NH1	2.12	0.65
2:AB:96:ARG:N	2:AB:96:ARG:HD2	2.12	0.65
47:DO:24:VAL:HG23	47:DO:33:ALA:HB2	1.79	0.65
35:DA:2689:U:H5''	35:DA:2690:C:H5'	1.79	0.65
42:DH:100:GLY:C	42:DH:102:ALA:H	1.99	0.65
45:BK:75:SER:O	45:BK:79:ARG:HG3	1.97	0.65
38:BD:68:LYS:HG3	38:BD:68:LYS:O	1.96	0.65
35:BA:1497:U:H2'	35:BA:1497:U:O2	1.95	0.65
20:CT:8:ARG:HH11	20:CT:8:ARG:HG3	1.62	0.65
1:CA:1026:G:N3	1:CA:1026:G:H2'	2.12	0.65
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.61	0.65
24:AY:106:LEU:C	24:AY:108:ASN:H	2.00	0.65
35:DA:271(G):C:H2'	35:DA:271(H):G:H8	1.62	0.65
40:BF:21:ALA:C	40:BF:23:ASP:H	2.00	0.65
35:BA:275:G:C5	35:BA:362:U:H5	2.14	0.65
35:DA:492:A:H2'	35:DA:493:G:O4'	1.97	0.65
35:BA:2533:A:C3'	35:BA:2534:A:H5''	2.27	0.65
50:DR:2:ARG:NH1	50:DR:5:LYS:HZ1	1.94	0.65
2:AB:211:ILE:O	2:AB:215:LEU:HD23	1.97	0.65
1:CA:191:G:C4	20:CT:105:SER:HB3	2.31	0.65
38:BD:25:THR:HG21	38:BD:82:ILE:H	1.60	0.65
3:CC:92:ALA:HA	3:CC:99:VAL:HG11	1.78	0.65
1:AA:386:C:O2'	1:AA:387:U:H5'	1.95	0.65
35:BA:1105:U:H2'	35:BA:1106:G:H8	1.61	0.65
10:CJ:48:THR:CA	10:CJ:62:HIS:HB3	2.26	0.65
1:AA:1053:G:N7	1:AA:1200:C:H5''	2.12	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:14:LYS:CD	58:BZ:16:SER:HB3	2.27	0.65
1:CA:520:A:OP1	12:CL:52:LEU:HB2	1.97	0.65
24:AY:188:ARG:HD2	24:AY:203:THR:HG21	1.77	0.65
47:BO:87:ILE:CG2	47:BO:91:LEU:HA	2.27	0.65
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.27	0.65
22:CV:41:C:C2'	22:CV:42:C:H5'	2.27	0.65
39:DE:16:ARG:O	39:DE:17:ASP:HB3	1.94	0.65
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.30	0.65
4:AD:73:ARG:HD2	4:AD:77:ASN:HD21	1.62	0.65
26:B1:35:THR:HG21	35:BA:2080:G:OP1	1.97	0.65
35:BA:1131:G:OP2	35:BA:2515:C:H4'	1.97	0.65
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.32	0.65
22:CV:50:U:O2'	22:CV:51:U:H5'	1.97	0.65
56:DX:14:SER:H	56:DX:17:ALA:HB3	1.61	0.65
41:DG:161:THR:C	41:DG:163:ALA:H	2.00	0.65
33:D8:34:TRP:CG	33:D8:35:GLN:N	2.65	0.65
48:DP:23:PRO:HB2	48:DP:33:ARG:NE	2.10	0.65
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.77	0.65
28:D3:1:MET:HB3	28:D3:39:ASP:HB3	1.77	0.65
40:DF:24:LEU:O	40:DF:115:ALA:HB1	1.96	0.65
41:BG:63:ILE:HD12	41:BG:63:ILE:O	1.96	0.65
35:DA:1080:C:H2'	35:DA:1081:U:H6	1.61	0.65
19:CS:6:LYS:CD	19:CS:6:LYS:H	2.10	0.65
35:DA:2808:U:O2'	35:DA:2809:A:H5'	1.97	0.65
35:BA:1686:C:O2'	35:BA:1687:G:H5'	1.97	0.65
5:CE:105:VAL:H	5:CE:106:PRO:HD2	1.62	0.65
54:BV:62:LEU:CD2	54:BV:95:LEU:HB2	2.25	0.65
49:BQ:63:LYS:HD2	58:BZ:175:VAL:HG21	1.79	0.65
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.78	0.65
35:DA:1050:A:N1	35:DA:2751:G:N7	2.45	0.65
43:BI:142:VAL:HG12	43:BI:143:SER:N	2.10	0.65
3:AC:15:THR:HG21	3:AC:181:ASN:H	1.59	0.65
35:BA:1097:U:H2'	35:BA:1098:A:H5'	1.78	0.65
35:DA:80:G:O2'	35:DA:81:G:H5'	1.97	0.65
33:B8:43:GLN:C	33:B8:44:LYS:HD2	2.17	0.65
1:CA:838:G:H2'	1:CA:839:U:H5''	1.78	0.65
25:B0:84:LEU:N	25:B0:84:LEU:HD12	2.11	0.65
18:CR:72:ARG:O	18:CR:76:LEU:HD23	1.96	0.65
52:DT:48:ILE:HD12	52:DT:48:ILE:H	1.62	0.65
58:DZ:150:LEU:CD2	58:DZ:171:ILE:HD11	2.27	0.65
58:DZ:149:SER:HB2	58:DZ:173:ALA:HA	1.78	0.65
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.12	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:24:LEU:O	40:BF:115:ALA:HB1	1.97	0.65
27:B2:69:ARG:HH22	35:BA:111:A:C5'	2.04	0.65
28:B3:3:ARG:HB3	28:B3:36:VAL:CB	2.20	0.65
28:B3:2:PRO:C	28:B3:4:LEU:N	2.50	0.65
53:DU:92:ARG:NH2	53:DU:94:ASN:ND2	2.45	0.65
60:DI:58:LEU:HD23	60:DI:61:ARG:HD2	1.79	0.65
42:DH:158:HIS:O	42:DH:159:GLU:HB2	1.97	0.65
35:DA:784:A:C5	38:DD:229:VAL:HG21	2.32	0.65
52:BT:108:ARG:HA	52:BT:111:ARG:NH1	2.12	0.65
32:D7:8:ASN:C	32:D7:8:ASN:ND2	2.41	0.65
35:BA:1598:C:O3'	56:BX:35:THR:HG23	1.96	0.65
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.77	0.65
39:DE:55:ASN:HD21	39:DE:75:VAL:HG22	1.61	0.65
35:DA:27:G:HO2'	35:DA:28:A:H8	1.45	0.65
58:BZ:115:GLY:H	58:BZ:177:PRO:HD3	1.62	0.65
50:DR:47:PHE:O	50:DR:51:LEU:HD12	1.96	0.65
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.78	0.65
17:AQ:68:ARG:H	17:AQ:70:ARG:NH1	1.94	0.65
42:DH:85:LYS:HE2	42:DH:145:ALA:CA	2.27	0.65
2:CB:96:ARG:N	2:CB:96:ARG:HD2	2.11	0.65
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.26	0.65
1:AA:1065:U:H5''	1:AA:1190:G:N2	2.11	0.65
46:BN:97:ARG:HA	46:BN:100:GLU:HB2	1.78	0.65
35:DA:2467:C:H4'	49:DQ:123:HIS:CD2	2.31	0.65
1:AA:1494:G:H8	1:AA:1494:G:H5'	1.61	0.65
35:DA:176:G:O2'	35:DA:177:G:H5'	1.97	0.65
35:DA:1812:A:H1'	38:DD:45:ASN:OD1	1.97	0.65
1:CA:1326:C:H2'	1:CA:1327:C:C6	2.32	0.65
36:BB:48:A:H4'	51:BS:95:HIS:HD2	1.60	0.64
35:DA:1880:C:H6	35:DA:1880:C:H5'	1.61	0.64
2:CB:178:ARG:HH22	2:CB:196:LEU:CA	2.03	0.64
41:BG:121:ASN:HB3	41:BG:124:SER:OG	1.97	0.64
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.22	0.64
31:B6:15:GLU:OE1	31:B6:18:ARG:NE	2.30	0.64
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.11	0.64
52:BT:50:ILE:HD11	52:BT:64:ARG:N	2.11	0.64
35:BA:780:G:N2	35:BA:783:A:H62	1.93	0.64
35:DA:2334:G:N2	51:DS:18:ILE:HD11	2.13	0.64
51:DS:17:ARG:HA	51:DS:20:ARG:HH11	1.63	0.64
35:DA:1722:A:C2	35:DA:1740:G:H2'	2.32	0.64
7:CG:13:GLN:O	7:CG:24:THR:HG21	1.97	0.64
39:BE:78:LEU:H	39:BE:78:LEU:HD23	1.62	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.31	0.64
39:DE:131:ALA:O	39:DE:133:LYS:N	2.27	0.64
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB3	1.77	0.64
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.28	0.64
8:CH:29:SER:HB3	8:CH:32:LYS:HB2	1.77	0.64
42:DH:138:LYS:O	42:DH:141:VAL:HG12	1.96	0.64
35:BA:910:A:N7	49:BQ:13:GLN:HG3	2.12	0.64
8:CH:58:TYR:O	8:CH:59:LEU:HD23	1.97	0.64
10:CJ:67:THR:O	10:CJ:67:THR:HG22	1.96	0.64
9:AI:121:ARG:HH11	9:AI:121:ARG:HG2	1.62	0.64
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.32	0.64
48:DP:23:PRO:O	48:DP:33:ARG:HD2	1.97	0.64
58:BZ:151:HIS:HB2	58:BZ:170:THR:HA	1.76	0.64
40:DF:10:PRO:O	40:DF:128:ALA:HB2	1.97	0.64
60:DI:53:ALA:HB1	60:DI:57:ARG:HH21	1.63	0.64
54:DV:19:LYS:HG3	54:DV:20:LEU:O	1.97	0.64
51:DS:17:ARG:HA	51:DS:20:ARG:HG2	1.78	0.64
51:BS:101:LEU:HD13	51:BS:101:LEU:H	1.62	0.64
51:BS:83:LYS:O	51:BS:105:ALA:HB3	1.97	0.64
52:BT:128:GLU:OE1	52:BT:129:ARG:N	2.30	0.64
46:DN:126:PRO:O	46:DN:127:ASP:HB2	1.96	0.64
28:B3:19:GLN:HE22	28:B3:52:HIS:HE1	1.44	0.64
48:DP:69:GLY:O	48:DP:70:GLN:HB2	1.97	0.64
43:BI:92:VAL:HG11	43:BI:120:ILE:HB	1.80	0.64
55:DW:34:ASN:O	55:DW:37:ARG:HB3	1.96	0.64
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.60	0.64
3:AC:84:ILE:O	3:AC:88:ARG:HG3	1.97	0.64
1:CA:865:A:H5'	1:CA:1078:U:C4	2.32	0.64
1:AA:1190:G:OP1	3:AC:4:LYS:HA	1.97	0.64
22:CV:61:C:H2'	22:CV:62:C:H6	1.62	0.64
50:DR:118:GLU:OE1	50:DR:118:GLU:HA	1.97	0.64
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.79	0.64
1:CA:1065:U:H5''	1:CA:1190:G:N2	2.12	0.64
35:BA:2292:C:O2'	35:BA:2293:C:H5'	1.96	0.64
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.32	0.64
35:BA:1930:G:N2	35:BA:1968:G:H2'	2.11	0.64
48:DP:102:ARG:O	48:DP:102:ARG:HD2	1.97	0.64
52:DT:57:PHE:O	52:DT:59:THR:N	2.30	0.64
2:CB:183:PRO:HA	2:CB:198:ASP:OD1	1.96	0.64
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.97	0.64
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.62	0.64
30:D5:3:LYS:HB2	35:DA:747:U:C5	2.32	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:6:THR:HG21	33:D8:63:PRO:HD3	1.77	0.64
4:CD:8:VAL:C	4:CD:10:ARG:N	2.51	0.64
35:DA:275:G:C5	35:DA:362:U:H5	2.15	0.64
42:BH:96:ALA:CB	42:BH:105:LEU:HD13	2.23	0.64
51:BS:28:VAL:HB	51:BS:89:ARG:CB	2.27	0.64
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.27	0.64
57:DY:28:LYS:C	57:DY:38:ILE:HB	2.18	0.64
37:DC:49:ILE:HG13	37:DC:50:ASP:N	2.10	0.64
35:DA:2791:C:H41	35:DA:2801(A):A:N6	1.94	0.64
42:DH:44:VAL:CG1	42:DH:45:VAL:H	2.09	0.64
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.32	0.64
42:BH:98:LEU:HB2	42:BH:125:VAL:CB	2.27	0.64
42:DH:126:PRO:O	42:DH:127:GLU:HB2	1.96	0.64
38:DD:33:LEU:HD23	38:DD:33:LEU:H	1.62	0.64
22:CW:16:U:H3'	22:CW:17:C:C5'	2.26	0.64
35:DA:2283:C:C2'	35:DA:2284:C:H5'	2.25	0.64
38:DD:142:VAL:HG21	38:DD:191:ALA:HB1	1.78	0.64
3:CC:82:GLU:O	3:CC:86:VAL:HG13	1.97	0.64
35:BA:1722:A:C2	35:BA:1740:G:H2'	2.32	0.64
1:AA:1150:U:H1'	1:AA:1280:A:N6	2.12	0.64
35:BA:185:U:H4'	35:BA:218:A:H4'	1.80	0.64
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.12	0.64
35:BA:1436:G:C2'	35:BA:1437:C:H5''	2.27	0.64
45:DK:7:VAL:HG12	45:DK:58:THR:HG23	1.80	0.64
35:BA:404:C:H4'	35:BA:405:U:H5'	1.79	0.64
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	1.95	0.64
38:DD:125:ILE:N	38:DD:125:ILE:HD12	2.11	0.64
35:BA:654(F):C:H2'	35:BA:654(G):C:C6	2.31	0.64
35:BA:2483:C:H3'	35:BA:2484:G:H5''	1.78	0.64
17:AQ:45:HIS:CD2	17:AQ:47:PRO:HD3	2.32	0.64
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.79	0.64
1:CA:552:U:O2'	1:CA:553:A:H5'	1.97	0.64
59:D4:48:ILE:H	59:D4:48:ILE:HD12	1.60	0.64
1:AA:1026:G:N3	1:AA:1026:G:H2'	2.11	0.64
58:BZ:72:ARG:HG2	58:BZ:89:PHE:HB2	1.79	0.64
33:B8:34:TRP:CB	35:BA:2420:C:OP1	2.45	0.64
1:AA:376:G:P	16:AP:67:THR:HG21	2.36	0.64
30:B5:36:CYS:SG	30:B5:49:CYS:HB3	2.37	0.64
41:BG:134:GLY:C	41:BG:135:LEU:HD12	2.17	0.64
28:B3:1:MET:HB3	28:B3:39:ASP:HB3	1.79	0.64
37:BC:87:GLU:HG2	37:BC:94:VAL:HG22	1.80	0.64
10:CJ:25:GLU:HA	10:CJ:28:ARG:HB2	1.78	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:14:ARG:NH1	25:D0:14:ARG:HB2	2.12	0.64
11:CK:43:SER:HA	11:CK:47:VAL:HG21	1.78	0.64
51:DS:52:SER:OG	51:DS:55:ALA:HB3	1.97	0.64
35:BA:2633:G:H1'	39:BE:62:PRO:HG3	1.80	0.64
28:B3:45:GLY:O	28:B3:48:GLU:HB2	1.98	0.64
4:CD:108:LEU:CD1	4:CD:174:LEU:HD13	2.28	0.64
8:CH:10:LEU:HD13	8:CH:83:ILE:HD11	1.79	0.64
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.63	0.64
40:DF:134:GLY:HA2	40:DF:166:ALA:HB2	1.79	0.64
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.33	0.64
56:BX:49:VAL:HG21	56:BX:89:ILE:HD11	1.78	0.64
10:AJ:67:THR:HG22	10:AJ:67:THR:O	1.97	0.64
35:DA:247:G:H4'	35:DA:386:G:C5	2.32	0.64
50:DR:18:LEU:HD11	50:DR:22:ARG:NE	2.12	0.64
48:DP:105:LEU:H	48:DP:105:LEU:HD12	1.62	0.64
5:AE:7:GLU:HB3	5:AE:112:LEU:HD13	1.79	0.64
35:BA:886:C:O2'	35:BA:887:A:H4'	1.97	0.64
35:BA:2392:A:H2	35:BA:2424:C:H42	1.46	0.64
41:BG:111:LEU:CD1	41:BG:120:LEU:HD11	2.27	0.64
1:CA:413:G:H1'	1:CA:428:G:N2	2.12	0.64
24:CY:33:LEU:HD22	24:CY:36:PRO:HG2	1.79	0.64
1:AA:1346:A:C5'	9:AI:120:ARG:HH12	2.06	0.64
26:D1:88:LYS:O	26:D1:88:LYS:HE2	1.98	0.64
24:CY:113:GLU:HA	24:CY:175:ASN:HA	1.80	0.64
57:DY:17:SER:CA	57:DY:71:LYS:HE2	2.26	0.64
35:DA:287:C:H6	35:DA:287:C:H5'	1.62	0.64
39:BE:55:ASN:ND2	39:BE:75:VAL:HG22	2.11	0.64
1:AA:415:A:O3'	35:DA:2153:G:H4'	1.98	0.64
22:AV:69:G:H5'	22:AV:69:G:H8	1.62	0.64
1:AA:525:C:H2'	1:AA:526:C:C6	2.33	0.64
45:BK:103:GLN:HA	45:BK:106:GLU:CD	2.18	0.64
5:AE:106:PRO:O	5:AE:110:LEU:HG	1.98	0.64
39:BE:79:ARG:HH12	39:BE:195:LEU:CD2	2.10	0.64
6:CF:49:ALA:HB1	18:CR:80:PRO:HG3	1.79	0.64
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.78	0.64
35:BA:2024:G:H2'	35:BA:2025:C:C6	2.32	0.64
35:DA:2722:G:H2'	35:DA:2723:C:C6	2.32	0.64
1:CA:1379:G:O2'	1:CA:1380:U:H5'	1.97	0.64
35:DA:2667:C:H1'	42:DH:109:PHE:CD2	2.32	0.64
11:CK:51:LYS:H	11:CK:51:LYS:HD3	1.63	0.64
50:BR:18:LEU:HD11	50:BR:22:ARG:NE	2.12	0.64
4:AD:31:CYS:O	4:AD:31:CYS:SG	2.55	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2310:A:C2	41:DG:77:ILE:HD11	2.33	0.64
53:DU:90:VAL:O	53:DU:92:ARG:N	2.28	0.64
42:BH:158:HIS:O	42:BH:159:GLU:HB2	1.98	0.64
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.78	0.64
48:DP:57:THR:C	48:DP:59:LEU:H	2.01	0.64
58:BZ:91:LEU:HD22	58:BZ:130:PRO:HG3	1.80	0.64
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.10	0.64
1:AA:1412:C:H42	1:AA:1488:G:H1	1.46	0.64
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.37	0.64
60:DI:4:ILE:HG12	60:DI:18:VAL:HG23	1.79	0.64
1:AA:1471:G:O2'	1:AA:1472:U:H5'	1.97	0.64
27:B2:38:GLN:HG3	27:B2:44:LEU:O	1.97	0.64
13:CM:90:LEU:HA	13:CM:93:ARG:HD2	1.79	0.64
17:CQ:68:ARG:H	17:CQ:70:ARG:NH1	1.95	0.64
38:BD:270:ILE:O	38:BD:271:ILE:HG13	1.96	0.64
13:AM:90:LEU:HA	13:AM:93:ARG:HD2	1.79	0.64
50:BR:55:ALA:HA	50:BR:80:PHE:CE1	2.32	0.64
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.12	0.64
1:CA:605:U:H2'	1:CA:606:G:C8	2.33	0.64
24:CY:233:ARG:HD2	24:CY:243:ASN:O	1.98	0.64
34:B9:11:CYS:SG	34:B9:32:HIS:CE1	2.90	0.64
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.78	0.64
6:CF:14:LEU:HD22	6:CF:18:GLN:HE21	1.62	0.64
1:AA:1277:C:HO2'	1:AA:1279:A:H8	1.44	0.64
35:BA:1434:A:H61	35:BA:1558:A:H62	1.46	0.64
35:DA:1103:A:H5'	35:DA:1104:C:OP2	1.97	0.64
47:DO:77:ILE:HD11	52:DT:72:VAL:CG1	2.28	0.64
58:BZ:27:VAL:HG12	58:BZ:87:ASP:HB2	1.79	0.64
1:CA:836:G:C6	1:CA:851:G:C6	2.86	0.64
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.62	0.64
35:DA:1434:A:H61	35:DA:1558:A:H62	1.45	0.64
28:B3:7:LYS:O	28:B3:9:VAL:HG13	1.98	0.64
60:DI:145:VAL:HG12	60:DI:146:ALA:N	2.12	0.64
52:DT:28:VAL:O	52:DT:29:ARG:CB	2.46	0.64
45:BK:17:ALA:O	45:BK:18:THR:HB	1.98	0.64
1:CA:1128:C:H4'	9:CI:16:ARG:HH12	1.63	0.64
9:CI:48:GLU:C	9:CI:50:LEU:H	2.01	0.64
1:CA:346:G:OP2	52:DT:41:ARG:NH2	2.31	0.64
8:CH:103:VAL:HG21	8:CH:109:ILE:O	1.98	0.64
25:B0:49:LYS:H	25:B0:80:HIS:HB3	1.60	0.64
2:CB:220:ASP:C	2:CB:222:ILE:H	2.01	0.64
39:DE:36:ARG:NH2	39:DE:88:GLY:HA2	2.12	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CW:57:G:H2'	22:CW:58:A:H5'	1.79	0.64
1:CA:1150:U:H1'	1:CA:1280:A:N6	2.12	0.64
39:BE:34:VAL:O	39:BE:35:GLN:HB2	1.96	0.64
1:CA:390:C:H2'	1:CA:391:G:C8	2.32	0.64
4:CD:173:TRP:C	4:CD:186:LEU:HB2	2.18	0.64
1:CA:723:U:O2	1:CA:723:U:H2'	1.97	0.64
46:DN:46:VAL:CG1	46:DN:48:MET:HG3	2.28	0.64
1:AA:413:G:H1'	1:AA:428:G:N2	2.12	0.64
35:DA:2152:G:H2'	35:DA:2153:G:H8	1.63	0.64
1:CA:797:C:OP1	11:CK:124:LYS:HE2	1.97	0.64
6:CF:98:LEU:HD13	6:CF:101:ALA:HB2	1.79	0.64
35:DA:654(F):C:H2'	35:DA:654(G):C:C6	2.32	0.64
37:DC:64:LEU:HD12	37:DC:66:HIS:O	1.98	0.64
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.33	0.64
9:CI:121:ARG:HH11	9:CI:121:ARG:HG2	1.63	0.64
35:BA:1885:A:H2'	35:BA:1886:C:O4'	1.98	0.64
30:D5:40:LYS:NZ	30:D5:46:CYS:HB3	2.13	0.64
24:AY:341:LEU:O	24:AY:345:ILE:HG13	1.97	0.64
42:DH:90:LYS:O	42:DH:94:TYR:HB2	1.98	0.64
51:DS:20:ARG:NE	51:DS:20:ARG:HA	2.12	0.64
2:AB:87:ARG:HH11	2:AB:223:ILE:HD13	1.63	0.64
5:AE:59:GLY:O	5:AE:62:ALA:HB3	1.96	0.64
24:CY:190:VAL:O	24:CY:191:ARG:HB3	1.98	0.64
1:AA:735:C:O2'	1:AA:736:C:H5'	1.98	0.64
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.33	0.64
46:BN:46:VAL:CG1	46:BN:48:MET:HG3	2.27	0.64
50:BR:47:PHE:O	50:BR:51:LEU:HD12	1.97	0.64
35:BA:2262:U:H2'	35:BA:2263:C:C5'	2.28	0.64
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.61	0.64
1:CA:1060:C:C5	3:CC:2:GLY:HA2	2.33	0.64
56:DX:49:VAL:HG21	56:DX:89:ILE:HD11	1.79	0.64
28:B3:6:VAL:CG1	28:B3:54:VAL:HG21	2.28	0.64
4:CD:73:ARG:HD2	4:CD:77:ASN:HD21	1.62	0.64
1:AA:551:U:H2'	1:AA:552:U:C6	2.33	0.64
25:B0:36:ILE:HD12	25:B0:36:ILE:C	2.18	0.64
1:CA:908:A:H2'	1:CA:909:A:C8	2.33	0.64
18:AR:72:ARG:O	18:AR:76:LEU:HD23	1.97	0.64
26:D1:35:THR:HG21	35:DA:2080:G:OP1	1.97	0.64
35:BA:1513:C:H2'	35:BA:1514:U:H6	1.63	0.64
41:DG:18:GLU:O	41:DG:21:ARG:HB3	1.97	0.64
45:DK:93:ARG:CZ	58:DZ:112:ARG:NH1	2.61	0.64
49:DQ:141:GLN:HB2	58:DZ:99:TYR:HD2	1.62	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2392:A:H2	35:DA:2424:C:H42	1.45	0.64
30:D5:36:CYS:SG	30:D5:49:CYS:HB3	2.38	0.64
19:CS:63:THR:HG22	19:CS:66:MET:CE	2.26	0.64
28:D3:3:ARG:O	28:D3:37:LEU:N	2.31	0.64
24:AY:341:LEU:HA	24:AY:344:LEU:HD21	1.79	0.64
35:DA:589:C:H2'	35:DA:590:A:C8	2.33	0.64
41:BG:85:GLY:C	41:BG:87:PRO:HD2	2.19	0.64
57:BY:27:VAL:HA	57:BY:28:LYS:HZ1	1.63	0.64
24:CY:27:LYS:O	24:CY:30:GLU:HB2	1.98	0.64
35:BA:2444:G:OP2	40:BF:68:LYS:HE2	1.97	0.64
24:CY:344:LEU:H	24:CY:344:LEU:CD2	2.09	0.64
38:DD:25:THR:HG21	38:DD:82:ILE:H	1.61	0.64
35:BA:1847:A:OP1	35:BA:1847:A:H2'	1.97	0.64
4:AD:173:TRP:C	4:AD:186:LEU:HB2	2.18	0.64
57:BY:17:SER:CA	57:BY:71:LYS:HE2	2.27	0.64
25:B0:32:ARG:H	25:B0:35:ASN:HD22	1.46	0.64
35:DA:1105:U:H2'	35:DA:1106:G:H8	1.62	0.64
51:BS:56:LEU:O	51:BS:56:LEU:HD23	1.98	0.64
35:DA:2439:A:H5'	35:DA:2439:A:C8	2.33	0.64
35:DA:2263:C:H6	35:DA:2263:C:H5'	1.62	0.64
42:BH:148:ILE:O	42:BH:151:ILE:HG12	1.96	0.64
24:AY:258:ILE:HD11	24:AY:279:LEU:CD2	2.28	0.64
11:CK:87:THR:HG22	11:CK:88:GLY:N	2.13	0.64
45:DK:103:GLN:HA	45:DK:106:GLU:CD	2.18	0.64
15:AO:39:LEU:O	15:AO:42:HIS:HB3	1.98	0.64
19:CS:31:ILE:O	19:CS:31:ILE:HG23	1.98	0.64
1:AA:475:G:H2'	1:AA:476:G:H8	1.62	0.64
24:AY:269:ILE:HD13	49:BQ:79:LEU:HD13	1.79	0.64
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.79	0.64
52:DT:55:ASN:HD22	52:DT:58:ASN:HD21	1.44	0.64
24:CY:272:LYS:O	24:CY:275:ALA:HB3	1.98	0.64
1:AA:838:G:H2'	1:AA:839:U:H5''	1.79	0.64
35:BA:1651:G:OP1	50:BR:40:LYS:HE3	1.98	0.64
39:DE:203:LYS:HE2	39:DE:204:ALA:HB2	1.78	0.64
35:DA:642:G:H21	35:DA:646:A:H2	1.45	0.64
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.98	0.64
13:CM:9:ILE:CG2	13:CM:11:ARG:HE	2.10	0.64
52:BT:27:THR:O	52:BT:28:VAL:HB	1.98	0.64
42:BH:44:VAL:CG1	42:BH:45:VAL:H	2.09	0.64
35:BA:2310:A:C5	41:BG:75:LYS:HE2	2.32	0.64
24:AY:40:ASN:O	24:AY:43:GLU:HG2	1.98	0.64
50:BR:9:LYS:O	50:BR:10:LEU:HG	1.98	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:92:ARG:NH1	54:BV:11:GLN:H	1.96	0.64
35:BA:2334:G:H21	51:BS:18:ILE:HD11	1.62	0.64
35:BA:2334:G:H21	51:BS:18:ILE:CG1	2.10	0.64
52:BT:34:VAL:O	52:BT:35:LYS:HB3	1.97	0.64
1:AA:1128:C:H4'	9:AI:16:ARG:HH12	1.62	0.64
9:AI:48:GLU:C	9:AI:50:LEU:H	2.01	0.64
1:CA:359:U:H2'	1:CA:360:A:H8	1.63	0.64
3:AC:83:ARG:O	3:AC:86:VAL:HG22	1.98	0.64
19:AS:6:LYS:CD	19:AS:6:LYS:H	2.10	0.64
35:DA:2633:G:H1'	39:DE:62:PRO:HG3	1.80	0.64
9:AI:66:ARG:NH1	9:AI:66:ARG:HB2	2.13	0.64
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.79	0.64
4:AD:162:LEU:HD12	4:AD:181:MET:CE	2.28	0.64
9:CI:65:VAL:O	9:CI:66:ARG:HG3	1.98	0.64
52:DT:115:ARG:NE	52:DT:115:ARG:HA	2.13	0.64
35:DA:910:A:C5	49:DQ:13:GLN:HG3	2.33	0.64
35:DA:911:A:H2'	49:DQ:9:TYR:OH	1.98	0.64
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.32	0.64
53:DU:79:PHE:HE2	53:DU:83:LEU:HD13	1.62	0.64
35:DA:320:A:H3'	40:DF:136:THR:HG21	1.80	0.64
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.33	0.64
35:DA:1100:C:C2'	35:DA:1101:U:H5'	2.28	0.64
3:CC:22:TRP:HZ3	3:CC:24:ALA:HB2	1.63	0.64
15:CO:61:GLY:O	15:CO:64:ARG:HB3	1.97	0.64
5:CE:15:ARG:O	5:CE:15:ARG:HG2	1.98	0.64
24:CY:143:PHE:O	24:CY:147:GLN:HB2	1.97	0.64
5:CE:12:LEU:HD13	5:CE:13:ILE:N	2.12	0.64
55:DW:51:LEU:HD22	55:DW:51:LEU:O	1.98	0.64
49:BQ:51:ARG:HH11	49:BQ:51:ARG:HG2	1.63	0.64
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.79	0.63
29:B4:43:GLY:H	29:B4:60:GLU:CA	2.02	0.63
35:DA:1885:A:H2'	35:DA:1886:C:O4'	1.97	0.63
40:BF:3:GLU:HB2	40:BF:24:LEU:HD23	1.80	0.63
4:AD:31:CYS:O	4:AD:33:MET:N	2.26	0.63
41:BG:11:TYR:OH	41:BG:33:ARG:HG3	1.97	0.63
50:DR:9:LYS:O	50:DR:10:LEU:HG	1.97	0.63
35:DA:1495:A:N3	35:DA:1496:A:C2	2.65	0.63
35:BA:1171:G:H3'	35:BA:1173:G:H4'	1.79	0.63
9:CI:45:ALA:O	9:CI:48:GLU:HB2	1.98	0.63
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.79	0.63
22:AW:68:C:H2'	22:AW:69:G:H5'	1.80	0.63
35:BA:2126:A:H61	35:BA:2163:C:H4'	1.62	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:78:LYS:NZ	9:AI:78:LYS:HB2	2.12	0.63
9:AI:46:ALA:HA	9:AI:78:LYS:HZ2	1.62	0.63
43:BI:8:PRO:O	43:BI:9:LEU:HD23	1.98	0.63
38:DD:25:THR:O	38:DD:27:THR:HG22	1.98	0.63
35:DA:2485:G:H5''	49:DQ:46:GLN:NE2	2.11	0.63
5:CE:106:PRO:O	5:CE:110:LEU:HG	1.99	0.63
7:AG:135:VAL:O	7:AG:138:LYS:HB3	1.98	0.63
42:DH:41:MET:HG3	42:DH:54:ARG:HA	1.80	0.63
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	1.96	0.63
1:CA:33:A:H2'	1:CA:34:C:C6	2.33	0.63
3:CC:84:ILE:O	3:CC:88:ARG:HG3	1.98	0.63
1:CA:1237:C:OP1	1:CA:1238:A:H1'	1.97	0.63
6:CF:82:ARG:HB3	6:CF:82:ARG:NH1	2.12	0.63
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.33	0.63
3:AC:22:TRP:HZ3	3:AC:24:ALA:HB2	1.63	0.63
36:DB:91:C:H5''	49:DQ:17:LEU:O	1.96	0.63
1:CA:1277:C:HO2'	1:CA:1279:A:H8	1.46	0.63
6:CF:78:GLU:O	6:CF:81:ILE:HD11	1.99	0.63
1:AA:862:C:C2'	1:AA:863:U:H5'	2.28	0.63
26:D1:86:SER:HB3	26:D1:89:GLU:HB2	1.80	0.63
36:BB:7:G:C2'	36:BB:8:U:H5''	2.27	0.63
52:BT:28:VAL:O	52:BT:29:ARG:CB	2.45	0.63
48:BP:23:PRO:HB2	48:BP:33:ARG:NE	2.12	0.63
30:D5:4:HIS:O	35:DA:2056:G:N2	2.31	0.63
4:AD:18:LYS:HE3	4:AD:31:CYS:HB3	1.78	0.63
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.38	0.63
35:BA:1747:G:H2'	35:BA:1747(A):G:H8	1.63	0.63
35:BA:2302:G:H1'	41:BG:128:ARG:HE	1.64	0.63
41:BG:82:LEU:HD21	41:BG:87:PRO:HD3	1.79	0.63
25:D0:51:VAL:CG2	25:D0:80:HIS:HA	2.21	0.63
50:BR:10:LEU:HD22	50:BR:17:ARG:HD2	1.81	0.63
27:D2:63:VAL:O	27:D2:66:GLU:HG2	1.97	0.63
52:DT:108:ARG:HA	52:DT:111:ARG:NH1	2.13	0.63
35:DA:1689:A:H62	35:DA:1698:A:H2	1.47	0.63
7:AG:23:VAL:CG1	7:AG:43:PHE:HE2	2.11	0.63
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.13	0.63
35:BA:2134:A:H62	35:BA:2157:G:H1'	1.61	0.63
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.33	0.63
39:BE:131:ALA:O	39:BE:133:LYS:N	2.29	0.63
39:DE:59:VAL:HG22	39:DE:63:LEU:HA	1.80	0.63
4:CD:57:ARG:NH1	4:CD:57:ARG:HG3	2.14	0.63
35:DA:2024:G:H2'	35:DA:2025:C:H6	1.62	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:58:GLU:H	3:CC:65:ALA:CB	2.11	0.63
35:BA:2024:G:H2'	35:BA:2025:C:H6	1.62	0.63
28:B3:7:LYS:C	28:B3:54:VAL:HG23	2.19	0.63
24:CY:144:ALA:O	24:CY:147:GLN:HB3	1.97	0.63
25:D0:36:ILE:HD12	25:D0:36:ILE:C	2.19	0.63
1:CA:47:C:H5"	1:CA:365:U:C6	2.33	0.63
21:CU:12:LYS:HB3	21:CU:17:THR:O	1.98	0.63
35:DA:2842:G:O2'	35:DA:2843:G:H5'	1.97	0.63
53:BU:8:VAL:HG11	53:BU:12:ARG:CZ	2.29	0.63
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.98	0.63
26:B1:80:LEU:HD22	26:B1:82:LEU:HG	1.80	0.63
45:DK:93:ARG:CZ	58:DZ:112:ARG:HH11	2.11	0.63
45:DK:94:GLU:H	58:DZ:112:ARG:CZ	2.08	0.63
58:DZ:119:GLU:O	58:DZ:120:ILE:C	2.37	0.63
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.13	0.63
52:DT:17:THR:O	52:DT:18:ASP:HB3	1.98	0.63
37:DC:49:ILE:HG23	37:DC:51:PRO:HD3	1.79	0.63
48:BP:57:THR:C	48:BP:59:LEU:H	2.01	0.63
24:CY:54:ARG:HG3	24:CY:57:ARG:HD2	1.80	0.63
35:DA:2876:G:H1'	52:DT:3:ARG:HH21	1.62	0.63
51:BS:69:VAL:HG13	51:BS:99:LYS:HE3	1.78	0.63
38:DD:102:LYS:O	38:DD:103:ARG:HG2	1.98	0.63
35:BA:2808:U:O2'	35:BA:2809:A:H5'	1.97	0.63
43:BI:71:ILE:HG23	43:BI:72:LEU:H	1.63	0.63
40:BF:136:THR:HG23	40:BF:137:LYS:H	1.63	0.63
39:DE:117:MET:HE1	39:DE:124:GLY:HA3	1.80	0.63
36:DB:7:G:C2'	36:DB:8:U:H5"	2.29	0.63
35:DA:1717:G:C3'	35:DA:1718:G:H5"	2.28	0.63
1:CA:963:G:N2	10:CJ:55:LYS:HZ2	1.96	0.63
53:BU:46:ALA:O	53:BU:50:ARG:HB2	1.98	0.63
1:CA:475:G:H2'	1:CA:476:G:H8	1.64	0.63
6:AF:98:LEU:HD13	6:AF:101:ALA:HB2	1.80	0.63
4:AD:57:ARG:NH1	4:AD:57:ARG:HG3	2.13	0.63
35:DA:1097:U:H2'	35:DA:1098:A:H5'	1.79	0.63
6:AF:49:ALA:HB1	18:AR:80:PRO:HG3	1.79	0.63
48:BP:105:LEU:H	48:BP:105:LEU:HD12	1.62	0.63
1:AA:489:C:H2'	1:AA:490:G:H8	1.62	0.63
12:AL:119:LYS:O	12:AL:120:TYR:HB2	1.99	0.63
11:AK:51:LYS:HD3	11:AK:51:LYS:H	1.63	0.63
1:CA:40:C:H2'	1:CA:41:G:H8	1.63	0.63
35:BA:2349:G:H5'	35:BA:2349:G:H8	1.61	0.63
28:D3:3:ARG:O	28:D3:36:VAL:HA	1.99	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.79	0.63
52:DT:27:THR:O	52:DT:28:VAL:HB	1.98	0.63
53:DU:91:ASP:O	53:DU:92:ARG:C	2.36	0.63
53:DU:92:ARG:NH2	53:DU:94:ASN:HD22	1.96	0.63
42:BH:91:GLY:CA	42:BH:160:LYS:HB3	2.27	0.63
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.28	0.63
54:DV:22:VAL:O	54:DV:23:GLU:HB2	1.98	0.63
39:DE:110:GLY:O	50:DR:2:ARG:NH1	2.31	0.63
24:AY:170:LEU:HD23	24:AY:172:LYS:HE3	1.81	0.63
38:BD:102:LYS:O	38:BD:103:ARG:HG2	1.99	0.63
38:BD:25:THR:O	38:BD:27:THR:HG22	1.98	0.63
38:DD:21:PHE:O	38:DD:24:ILE:HG22	1.98	0.63
43:BI:72:LEU:CD1	43:BI:140:LEU:HD13	2.28	0.63
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.12	0.63
46:DN:40:PRO:O	53:DU:64:ARG:HG3	1.98	0.63
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.18	0.63
42:DH:115:VAL:HG12	42:DH:116:GLU:H	1.62	0.63
3:CC:7:PRO:O	3:CC:11:ARG:HG2	1.98	0.63
13:AM:86:CYS:HA	19:AS:73:GLU:O	1.99	0.63
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.80	0.63
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.63	0.63
1:AA:605:U:H2'	1:AA:606:G:C8	2.34	0.63
57:BY:101:LYS:HG2	57:BY:102:CYS:N	2.14	0.63
24:AY:320:TYR:HA	24:AY:331:HIS:HA	1.79	0.63
35:DA:2828:C:O2'	35:DA:2829:C:H5'	1.98	0.63
35:BA:1381:G:H1'	35:BA:1571:A:N1	2.13	0.63
1:AA:836:G:C6	1:AA:851:G:C6	2.87	0.63
35:BA:1292:U:O2'	35:BA:1293:C:H5'	1.98	0.63
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.80	0.63
1:CA:224:C:H2'	1:CA:225:C:C6	2.32	0.63
26:B1:87:PRO:HD2	26:B1:89:GLU:OE2	1.98	0.63
35:BA:613:G:H8	35:BA:613:G:C5'	2.12	0.63
24:AY:51:GLU:HA	24:AY:54:ARG:NH2	2.13	0.63
24:AY:55:LEU:O	24:AY:59:VAL:HG23	1.97	0.63
41:DG:81:LYS:O	41:DG:82:LEU:HB2	1.98	0.63
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.98	0.63
35:BA:784:A:C5	38:BD:229:VAL:HG21	2.34	0.63
51:BS:82:ILE:O	51:BS:83:LYS:HG2	1.99	0.63
35:DA:675:A:OP1	40:DF:63:LYS:HE2	1.99	0.63
22:CV:3:C:H2'	22:CV:4:C:H6	1.64	0.63
52:BT:17:THR:O	52:BT:18:ASP:HB3	1.98	0.63
39:DE:26:ILE:HG22	39:DE:27:LEU:H	1.64	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1686:C:C6	35:DA:1686:C:H5'	2.30	0.63
35:BA:620:G:H4'	35:BA:621:A:H5'	1.79	0.63
1:CA:1391:U:H2'	1:CA:1392:G:H8	1.61	0.63
35:DA:1639:U:C2'	35:DA:1640:C:H5''	2.28	0.63
34:D9:29:ASN:O	34:D9:29:ASN:ND2	2.32	0.63
1:AA:963:G:N2	10:AJ:55:LYS:HZ2	1.95	0.63
10:CJ:34:VAL:HG13	10:CJ:74:ILE:HA	1.79	0.63
53:BU:79:PHE:HE2	53:BU:83:LEU:HD13	1.63	0.63
43:BI:29:TYR:CE1	43:BI:33:ARG:HD2	2.33	0.63
1:AA:1109:C:O2'	1:AA:1110:A:H5'	1.99	0.63
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.33	0.63
1:AA:47:C:H5''	1:AA:365:U:C6	2.34	0.63
1:AA:382:A:H2'	1:AA:383:A:H8	1.63	0.63
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.97	0.63
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	1.97	0.63
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.13	0.63
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.29	0.63
35:BA:1100:C:C2'	35:BA:1101:U:H5'	2.29	0.63
1:CA:831:U:H2'	1:CA:832:C:H6	1.63	0.63
11:AK:15:ALA:HA	11:AK:76:GLY:O	1.98	0.63
18:AR:88:LYS:C	18:AR:88:LYS:HE2	2.18	0.63
37:BC:68:LEU:HD11	37:BC:180:PHE:N	2.12	0.63
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.99	0.63
35:DA:1171:G:H3'	35:DA:1173:G:H4'	1.79	0.63
24:CY:54:ARG:HG2	24:CY:54:ARG:HH11	1.61	0.63
9:AI:90:PRO:HG2	9:AI:91:ASP:H	1.64	0.63
52:DT:108:ARG:HH11	52:DT:108:ARG:HB2	1.64	0.63
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.81	0.63
35:BA:774:A:H2	35:BA:787:U:O2'	1.73	0.63
52:DT:128:GLU:OE1	52:DT:129:ARG:N	2.32	0.63
22:CW:6:G:O2'	22:CW:7:A:H5'	1.98	0.63
1:CA:737:A:H2'	1:CA:738:C:C6	2.34	0.63
5:CE:102:ALA:HA	5:CE:120:THR:OG1	1.98	0.63
42:BH:111:HIS:CD2	42:BH:112:PRO:HD2	2.31	0.63
35:DA:1038:C:C3'	35:DA:1039:G:H5''	2.29	0.63
42:DH:111:HIS:CD2	42:DH:112:PRO:HD2	2.32	0.63
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.13	0.63
3:AC:7:PRO:O	3:AC:11:ARG:HG2	1.98	0.63
47:BO:105:GLU:HA	47:BO:108:GLU:CG	2.28	0.63
45:BK:32:ALA:HA	45:BK:63:ARG:HB2	1.80	0.63
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.32	0.63
1:CA:1473:A:H2'	1:CA:1474:G:C8	2.34	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:518:G:H4'	55:BW:18:ARG:HH12	1.63	0.63
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB3	1.78	0.63
22:CV:62:C:H2'	22:CV:63:G:H5'	1.81	0.63
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.34	0.63
41:DG:70:VAL:HA	41:DG:90:LEU:HD23	1.79	0.63
15:AO:36:ILE:HG22	15:AO:37:ASN:HD22	1.62	0.63
20:AT:8:ARG:HG3	20:AT:8:ARG:HH11	1.63	0.63
41:DG:16:ARG:HB3	41:DG:16:ARG:HH11	1.63	0.63
45:DK:93:ARG:NE	58:DZ:112:ARG:HD2	2.05	0.63
48:BP:23:PRO:O	48:BP:33:ARG:HD2	1.99	0.63
28:D3:6:VAL:CG1	28:D3:54:VAL:HG21	2.29	0.63
28:D3:2:PRO:HG3	28:D3:58:VAL:HG12	1.80	0.63
30:D5:3:LYS:CE	30:D5:3:LYS:HA	2.22	0.63
41:BG:12:TYR:HA	41:BG:16:ARG:HG2	1.80	0.63
52:DT:13:ARG:NE	52:DT:13:ARG:HA	2.06	0.63
58:DZ:91:LEU:HB3	58:DZ:96:VAL:HG21	1.80	0.63
22:CW:11:C:H42	22:CW:24:G:H1	1.46	0.63
52:DT:34:VAL:O	52:DT:35:LYS:HB3	1.98	0.63
35:BA:1076:C:H4'	58:BZ:112:ARG:HD3	1.81	0.63
1:AA:491:G:H2'	1:AA:492:G:C8	2.33	0.63
35:BA:2791:C:H41	35:BA:2801(A):A:N6	1.96	0.63
2:AB:207:ALA:O	2:AB:211:ILE:HG13	1.97	0.63
2:AB:220:ASP:C	2:AB:222:ILE:H	2.02	0.63
52:DT:99:LEU:HD13	52:DT:102:ILE:HD11	1.79	0.63
42:BH:126:PRO:O	42:BH:127:GLU:HB2	1.96	0.63
48:BP:7:ARG:HB2	48:BP:8:PRO:HD3	1.79	0.63
3:CC:83:ARG:O	3:CC:86:VAL:HG22	1.98	0.63
39:BE:55:ASN:O	39:BE:57:LYS:N	2.25	0.63
35:DA:1278:A:OP1	50:DR:36:THR:HG22	1.98	0.63
12:AL:83:VAL:HG22	12:AL:84:LEU:N	2.14	0.63
35:BA:2728:U:O2'	35:BA:2729:G:H5'	1.98	0.63
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.28	0.63
1:CA:1029:C:H1'	1:CA:1032:G:H22	1.62	0.63
43:BI:69:LYS:O	43:BI:73:GLU:HG2	1.98	0.63
35:DA:634:C:H2'	35:DA:635:C:C6	2.34	0.63
39:DE:137:HIS:HB3	39:DE:138:PRO:HD2	1.81	0.63
51:BS:36:TYR:N	51:BS:36:TYR:CD1	2.65	0.63
26:B1:88:LYS:NZ	26:B1:92:LYS:HB2	2.13	0.63
51:DS:97:ARG:NH2	51:DS:98:VAL:CA	2.50	0.63
57:BY:96:ILE:HG22	57:BY:97:ARG:N	2.13	0.63
58:DZ:53:ILE:HG22	58:DZ:71:VAL:HB	1.79	0.63
52:BT:23:ARG:HB2	52:BT:24:PRO:HD2	1.81	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:B5:33:CYS:SG	30:B5:49:CYS:CB	2.87	0.63
58:BZ:140:ASP:OD2	58:BZ:141:VAL:N	2.32	0.63
41:BG:60:LEU:HD12	41:BG:68:PRO:HG3	1.81	0.63
35:DA:2533:A:C3'	35:DA:2534:A:H5''	2.29	0.63
20:AT:100:ILE:HD12	20:AT:100:ILE:H	1.64	0.63
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.39	0.63
1:CA:938:A:H5'	7:CG:76:ARG:HH22	1.64	0.63
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.14	0.63
9:CI:66:ARG:HB2	9:CI:66:ARG:NH1	2.13	0.63
8:AH:11:THR:HA	8:AH:14:ARG:HH12	1.64	0.63
35:DA:2836:U:H2'	35:DA:2837:G:H8	1.60	0.63
1:CA:1121:U:H2'	1:CA:1122:U:C6	2.31	0.63
35:DA:518:G:H4'	55:DW:18:ARG:HH12	1.62	0.63
55:DW:15:ARG:HA	55:DW:18:ARG:HD2	1.79	0.63
15:AO:43:LEU:HD11	15:AO:53:HIS:HA	1.79	0.63
1:AA:33:A:H2'	1:AA:34:C:C6	2.34	0.63
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.34	0.63
35:BA:642:G:H21	35:BA:646:A:H2	1.47	0.63
10:AJ:44:VAL:HG12	10:AJ:45:ARG:N	2.14	0.63
1:AA:552:U:O2'	1:AA:553:A:H5'	1.99	0.63
55:DW:79:GLY:C	55:DW:100:THR:HG23	2.19	0.63
56:DX:63:LYS:HA	56:DX:72:LYS:HA	1.81	0.63
35:BA:324:A:H2'	35:BA:325:G:O4'	1.99	0.63
52:BT:14:TYR:CD1	52:BT:14:TYR:N	2.66	0.63
47:BO:47:ILE:HG23	47:BO:48:PRO:HD2	1.81	0.63
24:AY:232:MET:HE2	35:BA:2556:C:H1'	1.79	0.63
22:AW:16:U:C3'	22:AW:17:C:H5'	2.13	0.63
58:BZ:125:LEU:O	58:BZ:126:VAL:HG13	1.99	0.63
13:CM:9:ILE:HG21	13:CM:11:ARG:HE	1.64	0.63
40:BF:10:PRO:O	40:BF:128:ALA:HB2	1.98	0.63
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.13	0.63
4:AD:8:VAL:C	4:AD:10:ARG:N	2.52	0.63
41:BG:114:ILE:HD12	41:BG:117:PHE:HD2	1.64	0.63
45:DK:95:LYS:HG2	45:DK:137:GLU:CB	2.24	0.63
57:BY:28:LYS:C	57:BY:38:ILE:HB	2.19	0.63
10:AJ:80:LYS:HZ3	9:CI:95:LYS:HB3	1.61	0.63
31:D6:44:ARG:C	31:D6:45:LYS:HG2	2.19	0.63
25:B0:10:THR:HG22	25:B0:11:ARG:N	2.06	0.63
25:B0:14:ARG:NH1	25:B0:14:ARG:HB2	2.14	0.63
37:DC:87:GLU:HG2	37:DC:94:VAL:HG22	1.81	0.63
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.80	0.63
35:BA:2124:G:H2'	35:BA:2125:G:O4'	1.99	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BC:36:LYS:HG3	37:BC:37:PHE:N	2.10	0.63
57:DY:28:LYS:CB	57:DY:37:VAL:HB	2.26	0.63
51:DS:101:LEU:H	51:DS:101:LEU:HD13	1.64	0.63
11:AK:22:HIS:HB3	11:AK:29:ILE:HG13	1.79	0.63
22:CW:15:G:H4'	22:CW:16:U:OP1	1.98	0.63
35:DA:2290:G:C8	35:DA:2290:G:H5'	2.32	0.63
48:BP:140:ALA:O	48:BP:141:ALA:HB2	1.97	0.63
35:DA:855:G:H2'	35:DA:856:C:C6	2.33	0.63
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.29	0.63
1:AA:520:A:OP1	12:AL:52:LEU:HB2	1.98	0.63
1:CA:491:G:H2'	1:CA:492:G:C8	2.33	0.63
35:DA:2022:U:O2'	35:DA:2617:C:H5'	1.98	0.63
6:CF:97:PHE:HB2	18:CR:32:ARG:NH2	2.14	0.63
1:AA:1029:C:H1'	1:AA:1032:G:H22	1.62	0.63
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	1.98	0.63
1:CA:551:U:H2'	1:CA:552:U:C6	2.33	0.63
35:BA:1434:A:H61	35:BA:1558:A:N6	1.97	0.63
35:DA:1930:G:N2	35:DA:1968:G:H2'	2.13	0.63
1:AA:1379:G:O2'	1:AA:1380:U:H5'	1.98	0.63
35:DA:1240:U:O2'	35:DA:1241:A:H5'	1.99	0.63
1:CA:275:G:H2'	1:CA:276:G:H8	1.64	0.63
35:DA:2749:A:H4'	42:DH:62:LYS:HB3	1.79	0.63
1:AA:460:G:O6	1:AA:470:C:H5''	1.99	0.63
20:AT:38:LYS:HA	20:AT:41:ILE:HD11	1.81	0.63
45:BK:105:LEU:HG	45:BK:120:LEU:HD22	1.79	0.63
55:BW:51:LEU:O	55:BW:51:LEU:HD22	1.99	0.63
41:DG:13:GLU:O	41:DG:14:GLU:HB2	1.99	0.62
58:DZ:98:MET:C	58:DZ:125:LEU:HD12	2.19	0.62
1:AA:359:U:H2'	1:AA:360:A:H8	1.63	0.62
48:BP:14:LYS:O	48:BP:15:ARG:HG3	1.99	0.62
28:D3:7:LYS:C	28:D3:54:VAL:HG23	2.19	0.62
58:BZ:151:HIS:CD2	58:BZ:170:THR:HG22	2.34	0.62
30:B5:40:LYS:NZ	30:B5:46:CYS:HB3	2.14	0.62
40:DF:24:LEU:C	40:DF:26:ALA:H	2.03	0.62
60:DI:75:LEU:HD22	60:DI:141:LYS:HD2	1.80	0.62
1:AA:328:C:O2	1:AA:328:C:H2'	1.98	0.62
54:BV:5:VAL:HG23	54:BV:37:VAL:HG23	1.81	0.62
57:DY:28:LYS:N	57:DY:28:LYS:CE	2.62	0.62
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.81	0.62
39:BE:84:PHE:O	39:BE:86:PRO:HD3	1.99	0.62
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.64	0.62
35:BA:1686:C:H5'	35:BA:1686:C:C6	2.30	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:47:ALA:HB2	46:BN:112:LEU:HD11	1.81	0.62
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.19	0.62
40:BF:134:GLY:HA2	40:BF:166:ALA:HB2	1.81	0.62
8:AH:29:SER:HB3	8:AH:32:LYS:HB2	1.80	0.62
16:CP:75:ARG:C	16:CP:78:GLY:H	2.02	0.62
35:BA:754:C:H2'	35:BA:755:C:C6	2.34	0.62
1:AA:366:C:O2'	1:AA:367:U:H5''	1.98	0.62
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.29	0.62
2:AB:183:PRO:HA	2:AB:198:ASP:OD1	1.99	0.62
24:CY:128:GLU:HA	24:CY:195:PHE:CE2	2.33	0.62
52:BT:55:ASN:HD22	52:BT:58:ASN:HD21	1.47	0.62
52:BT:48:ILE:HD12	52:BT:48:ILE:H	1.63	0.62
38:BD:206:LEU:HA	38:BD:211:ARG:HE	1.63	0.62
33:D8:30:ARG:CZ	35:DA:2419:U:O4	2.47	0.62
35:DA:1747:G:H2'	35:DA:1747(A):G:H8	1.64	0.62
2:CB:178:ARG:NH2	8:CH:74:PRO:HG3	2.14	0.62
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.57	0.62
45:BK:18:THR:N	45:BK:19:PRO:CD	2.62	0.62
31:D6:15:GLU:OE1	31:D6:18:ARG:NE	2.31	0.62
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	1.99	0.62
35:DA:1187:G:H5''	54:DV:81:TYR:HE2	1.63	0.62
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.34	0.62
22:AV:62:C:H2'	22:AV:62:C:O2	1.99	0.62
35:BA:1278:A:OP1	50:BR:36:THR:HG22	1.99	0.62
11:AK:46:GLY:HA2	11:AK:50:TYR:O	1.99	0.62
1:CA:624:C:H4'	16:CP:10:GLY:C	2.20	0.62
35:BA:2022:U:O2'	35:BA:2617:C:H5'	1.99	0.62
56:DX:89:ILE:O	56:DX:93:GLU:HG2	1.99	0.62
7:CG:148:ASN:HD22	7:CG:148:ASN:N	1.96	0.62
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.14	0.62
43:BI:26:ALA:O	43:BI:32:PRO:HD3	1.99	0.62
6:AF:97:PHE:O	18:AR:31:LEU:HD23	1.98	0.62
46:DN:78:TYR:H	46:DN:78:TYR:HD1	1.46	0.62
48:DP:102:ARG:O	48:DP:103:ALA:HB2	1.99	0.62
35:DA:1434:A:H61	35:DA:1558:A:N6	1.97	0.62
28:B3:6:VAL:HG13	28:B3:54:VAL:HG21	1.80	0.62
4:CD:73:ARG:HH11	4:CD:73:ARG:HB2	1.64	0.62
35:BA:1103:A:H5'	35:BA:1104:C:OP2	1.98	0.62
28:D3:19:GLN:HE22	28:D3:52:HIS:HE1	1.47	0.62
24:CY:153:VAL:HA	24:CY:169:ILE:HG22	1.80	0.62
3:CC:155:GLY:HA3	3:CC:163:ALA:HB1	1.82	0.62
35:DA:833:U:H2'	35:DA:834:C:C6	2.33	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DQ:38:GLU:HG3	49:DQ:127:ILE:HB	1.81	0.62
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.63	0.62
50:BR:118:GLU:HA	50:BR:118:GLU:OE1	1.98	0.62
49:BQ:141:GLN:NE2	58:BZ:72:ARG:HA	2.14	0.62
33:B8:33:ASN:HA	33:B8:36:LYS:CD	2.23	0.62
40:BF:3:GLU:CG	40:BF:19:GLU:HB2	2.22	0.62
52:DT:23:ARG:HB2	52:DT:24:PRO:HD2	1.80	0.62
2:AB:184:VAL:HG12	2:AB:197:VAL:HG13	1.80	0.62
53:BU:91:ASP:O	53:BU:92:ARG:C	2.37	0.62
9:AI:43:ALA:HA	9:AI:74:ILE:HD13	1.81	0.62
32:B7:8:ASN:ND2	32:B7:11:LYS:H	1.97	0.62
50:DR:97:VAL:HG22	50:DR:114:VAL:HG22	1.81	0.62
37:BC:49:ILE:HG23	37:BC:51:PRO:HD3	1.81	0.62
58:BZ:7:ALA:HB3	58:BZ:61:LEU:HD13	1.80	0.62
35:BA:2377:A:H4'	51:BS:107:GLU:O	1.99	0.62
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.59	0.62
51:DS:101:LEU:O	51:DS:106:ARG:NH2	2.33	0.62
39:DE:49:LEU:H	39:DE:49:LEU:CD1	2.11	0.62
39:DE:34:VAL:O	39:DE:35:GLN:HB2	1.99	0.62
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.33	0.62
40:DF:46:ARG:HG2	40:DF:46:ARG:NH1	2.11	0.62
11:AK:27:ASN:HA	11:AK:56:GLY:HA2	1.79	0.62
53:DU:50:ARG:NH2	54:DV:72:VAL:HG12	2.13	0.62
1:AA:416:G:O5'	1:AA:416:G:H8	1.81	0.62
12:CL:83:VAL:HG22	12:CL:84:LEU:N	2.14	0.62
1:AA:625:G:H2'	1:AA:626:U:H6	1.62	0.62
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.64	0.62
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.13	0.62
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.34	0.62
5:AE:105:VAL:H	5:AE:106:PRO:HD2	1.63	0.62
29:B4:48:ILE:HD12	29:B4:48:ILE:N	2.15	0.62
56:BX:89:ILE:O	56:BX:93:GLU:HG2	1.98	0.62
35:BA:2722:G:H2'	35:BA:2723:C:C6	2.34	0.62
35:BA:469:G:C2'	35:BA:470:A:H5''	2.29	0.62
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.34	0.62
1:CA:382:A:H2'	1:CA:383:A:H8	1.64	0.62
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.34	0.62
35:DA:613:G:H8	35:DA:613:G:C5'	2.12	0.62
35:BA:2702:U:H5	35:BA:2705:A:N6	1.97	0.62
35:DA:1257:C:H4'	40:DF:83:PHE:CD2	2.34	0.62
18:AR:21:LYS:HZ3	18:AR:55:ARG:N	1.96	0.62
24:AY:25:ARG:CA	24:AY:28:GLU:HB2	2.28	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:49:LYS:H	25:D0:80:HIS:CB	2.11	0.62
18:CR:52:PRO:O	18:CR:56:THR:HG23	1.99	0.62
57:BY:28:LYS:N	57:BY:28:LYS:CE	2.63	0.62
35:DA:1171:G:H3'	35:DA:1173:G:C5'	2.29	0.62
35:DA:2124:G:H2'	35:DA:2125:G:O4'	2.00	0.62
50:BR:2:ARG:NH1	50:BR:5:LYS:NZ	2.46	0.62
24:CY:312:ARG:CZ	24:CY:344:LEU:HD12	2.28	0.62
20:AT:44:ALA:HB1	20:AT:88:VAL:HA	1.80	0.62
11:CK:22:HIS:HB3	11:CK:29:ILE:HG13	1.80	0.62
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.33	0.62
4:AD:30:LYS:CB	4:AD:35:ARG:HD2	2.29	0.62
35:BA:2263:C:H6	35:BA:2263:C:H5'	1.65	0.62
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.99	0.62
58:DZ:4:ARG:HB3	58:DZ:4:ARG:NH1	2.13	0.62
1:CA:973:G:O4'	10:CJ:55:LYS:HB3	1.99	0.62
10:AJ:4:ILE:HG12	10:AJ:100:THR:HG22	1.80	0.62
35:DA:1094:U:H2'	35:DA:1096:A:OP2	1.98	0.62
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.15	0.62
48:BP:102:ARG:O	48:BP:103:ALA:HB2	2.00	0.62
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	1.81	0.62
24:AY:328:LEU:HD23	24:AY:329:MET:N	2.13	0.62
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.34	0.62
37:BC:64:LEU:HD12	37:BC:66:HIS:O	1.98	0.62
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.64	0.62
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.65	0.62
6:AF:33:TYR:HD1	6:AF:75:LEU:HB2	1.64	0.62
1:AA:359:U:OP1	60:DI:87:LYS:HD3	2.00	0.62
28:D3:6:VAL:HG13	28:D3:54:VAL:HG21	1.81	0.62
58:BZ:150:LEU:CD2	58:BZ:171:ILE:HD11	2.30	0.62
40:DF:25:PRO:O	40:DF:26:ALA:C	2.38	0.62
33:D8:4:MET:HE3	33:D8:61:LEU:HD13	1.80	0.62
24:AY:15:GLY:O	24:AY:20:PRO:HD2	1.99	0.62
41:BG:39:ILE:C	41:BG:39:ILE:HD12	2.19	0.62
25:D0:12:ASN:O	25:D0:14:ARG:N	2.31	0.62
35:BA:2123:G:O2'	37:BC:176:GLY:HA2	1.99	0.62
4:AD:96:LEU:N	4:AD:96:LEU:HD12	2.15	0.62
52:DT:107:ASP:H	52:DT:110:ILE:HG13	1.64	0.62
22:CV:20:U:H3'	22:CV:21:A:H5'	1.80	0.62
46:BN:35:ARG:HD3	46:BN:37:LYS:HD2	1.82	0.62
49:DQ:55:VAL:CG2	49:DQ:56:ARG:H	2.13	0.62
7:AG:87:VAL:HG13	7:AG:151:TYR:O	1.99	0.62
1:CA:1405:G:O2'	1:CA:1406:U:H5'	2.00	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1188:A:C2'	1:AA:1189:C:H5'	2.30	0.62
1:AA:938:A:H5'	7:AG:76:ARG:HH22	1.64	0.62
40:DF:32:LEU:O	40:DF:36:VAL:HG23	1.99	0.62
38:BD:271:ILE:O	38:BD:272:ALA:HB3	2.00	0.62
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.30	0.62
6:CF:97:PHE:O	18:CR:31:LEU:HD23	1.99	0.62
1:CA:1190:G:OP1	3:CC:4:LYS:HA	1.99	0.62
49:BQ:38:GLU:HG3	49:BQ:127:ILE:HB	1.81	0.62
24:CY:274:LEU:O	24:CY:278:ILE:HD13	1.99	0.62
39:DE:106:GLY:HA3	39:DE:189:PRO:HB2	1.81	0.62
1:AA:575:G:H4'	1:AA:576:G:H5''	1.80	0.62
24:CY:159:GLY:H	24:CY:164:ILE:HA	1.64	0.62
32:D7:24:THR:HG23	32:D7:27:GLY:H	1.65	0.62
1:CA:460:G:O6	1:CA:470:C:H5''	2.00	0.62
1:CA:272:C:H2'	1:CA:273:A:H8	1.64	0.62
4:AD:64:LEU:HB2	4:AD:198:VAL:HG21	1.80	0.62
50:BR:8:ARG:NE	50:BR:8:ARG:HA	2.14	0.62
58:DZ:72:ARG:HG2	58:DZ:89:PHE:HB2	1.82	0.62
25:B0:18:ALA:HB1	35:BA:2271:G:OP1	1.98	0.62
39:BE:108:SER:HB3	39:BE:165:VAL:HG21	1.79	0.62
4:CD:64:LEU:HB2	4:CD:198:VAL:HG21	1.80	0.62
35:BA:1094:U:H2'	35:BA:1096:A:OP2	1.99	0.62
53:DU:90:VAL:CG1	53:DU:91:ASP:H	2.12	0.62
2:AB:185:ILE:HD11	2:AB:199:TYR:HD1	1.64	0.62
24:CY:51:GLU:HG3	24:CY:54:ARG:HH22	1.64	0.62
9:AI:51:ARG:HG2	9:AI:56:LEU:HD12	1.81	0.62
60:DI:8:PRO:O	60:DI:9:LEU:HB2	2.00	0.62
50:DR:97:VAL:HA	50:DR:113:LEU:O	1.98	0.62
49:BQ:5:ARG:O	49:BQ:6:ARG:HG2	2.00	0.62
2:CB:87:ARG:HH11	2:CB:223:ILE:HD13	1.64	0.62
4:CD:96:LEU:HD12	4:CD:96:LEU:N	2.14	0.62
20:CT:89:ARG:NH2	20:CT:104:LEU:HD21	2.12	0.62
39:BE:36:ARG:NH2	39:BE:88:GLY:HA2	2.13	0.62
20:AT:89:ARG:NH2	20:AT:104:LEU:HD21	2.11	0.62
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.13	0.62
37:BC:77:ILE:HB	37:BC:121:GLY:O	2.00	0.62
1:CA:1053:G:H3'	1:CA:1054:C:H5'	1.80	0.62
7:CG:135:VAL:O	7:CG:138:LYS:HB3	1.98	0.62
22:AV:40:C:H2'	22:AV:41:C:C6	2.34	0.62
47:BO:98:VAL:CG1	47:BO:117:LEU:HB3	2.29	0.62
38:BD:182:LEU:O	38:BD:271:ILE:HD12	1.97	0.62
34:D9:11:CYS:SG	34:D9:32:HIS:CE1	2.93	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DK:82:ALA:HB2	45:DK:99:ILE:HD11	1.80	0.62
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.15	0.62
15:AO:56:LEU:HD21	35:BA:715:G:C2	2.33	0.62
1:CA:637:G:H2'	1:CA:638:G:H8	1.64	0.62
6:AF:97:PHE:HB2	18:AR:32:ARG:NH2	2.14	0.62
1:CA:838:G:C2'	1:CA:839:U:H5''	2.30	0.62
52:BT:57:PHE:O	52:BT:59:THR:N	2.33	0.62
1:AA:272:C:H2'	1:AA:273:A:H8	1.64	0.62
35:DA:958:U:H5''	49:DQ:14:ARG:HD3	1.80	0.62
24:AY:304:PRO:O	24:AY:305:ILE:HG22	2.00	0.62
35:BA:634:C:H2'	35:BA:635:C:C6	2.34	0.62
35:DA:2830:G:H5'	39:DE:58:ARG:HH22	1.64	0.62
35:BA:1925:C:O2'	35:BA:1926:U:H5'	1.98	0.62
1:AA:308:C:H2'	1:AA:309:G:H8	1.63	0.62
35:DA:1925:C:O2'	35:DA:1926:U:H5'	1.99	0.62
35:BA:80:G:O2'	35:BA:81:G:H5'	1.99	0.62
41:DG:138:GLN:OE1	41:DG:153:ARG:HB2	1.99	0.62
57:DY:84:ARG:HH12	57:DY:97:ARG:HE	1.48	0.62
41:DG:129:GLY:O	41:DG:161:THR:HB	2.00	0.62
58:DZ:166:SER:HB3	58:DZ:169:GLU:HB2	1.82	0.62
13:AM:23:TYR:CE1	13:AM:71:ARG:HB2	2.35	0.62
33:D8:33:ASN:HA	33:D8:36:LYS:CD	2.22	0.62
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.15	0.62
41:DG:78:SER:O	41:DG:80:PHE:N	2.33	0.62
24:AY:33:LEU:H	45:BK:29:GLN:NE2	1.96	0.62
54:DV:39:LEU:HB3	54:DV:47:VAL:HG21	1.81	0.62
18:CR:21:LYS:HZ3	18:CR:54:ARG:C	2.03	0.62
25:D0:10:THR:HG22	25:D0:11:ARG:N	2.05	0.62
52:BT:104:ASN:O	52:BT:106:SER:N	2.31	0.62
51:BS:26:LEU:HA	51:BS:39:ILE:HD13	1.81	0.62
54:BV:19:LYS:NZ	54:BV:20:LEU:H	1.98	0.62
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.15	0.62
1:CA:355:C:N4	1:CA:356:A:H62	1.98	0.62
38:BD:33:LEU:H	38:BD:33:LEU:HD23	1.64	0.62
35:BA:674:G:H1'	40:BF:74:ARG:CD	2.28	0.62
39:BE:69:LYS:HZ1	39:BE:89:ASP:HA	1.61	0.62
49:DQ:110:THR:CB	49:DQ:112:GLU:HG2	2.27	0.62
3:AC:106:VAL:HG12	3:AC:108:ASN:H	1.65	0.62
38:BD:142:VAL:HG21	38:BD:191:ALA:HB1	1.80	0.62
43:BI:15:VAL:HG12	43:BI:16:GLY:N	2.14	0.62
24:AY:113:GLU:HA	24:AY:175:ASN:N	2.14	0.62
40:BF:46:ARG:NH1	40:BF:46:ARG:HG2	2.12	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:71:VAL:CG2	2:AB:164:VAL:HG22	2.30	0.62
35:BA:2439:A:H5'	35:BA:2439:A:C8	2.34	0.62
50:DR:55:ALA:HA	50:DR:80:PHE:CE1	2.35	0.62
36:DB:7:G:H4'	51:DS:29:PHE:CD1	2.35	0.62
1:AA:973:G:O4'	10:AJ:55:LYS:HB3	2.00	0.62
35:DA:320:A:H3'	40:DF:136:THR:CG2	2.29	0.62
3:AC:155:GLY:HA3	3:AC:163:ALA:HB1	1.82	0.62
35:DA:886:C:O2'	35:DA:887:A:H4'	1.99	0.62
1:CA:1254:C:OP1	10:CJ:45:ARG:HD3	1.99	0.62
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.82	0.62
1:AA:108:G:H5'	1:AA:109:A:H5''	1.79	0.62
3:CC:42:LEU:O	3:CC:45:LYS:HB2	1.99	0.62
52:DT:14:TYR:CD1	52:DT:14:TYR:N	2.67	0.62
1:CA:1137:C:H4'	1:CA:1138:G:N2	2.14	0.62
58:BZ:126:VAL:HG12	58:BZ:162:GLU:O	2.00	0.62
52:BT:82:LEU:O	52:BT:84:GLN:N	2.32	0.62
35:DA:481:G:H1'	35:DA:506:G:N2	2.15	0.62
40:BF:24:LEU:C	40:BF:26:ALA:H	2.02	0.62
24:AY:59:VAL:HG13	24:AY:62:PHE:CD2	2.35	0.62
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	1.99	0.62
45:DK:17:ALA:O	45:DK:18:THR:HB	1.99	0.62
42:DH:96:ALA:CB	42:DH:105:LEU:HD13	2.26	0.62
35:DA:2127:G:H5'	37:DC:36:LYS:HG2	1.82	0.62
35:BA:686:G:N2	35:BA:788:A:H61	1.98	0.62
48:DP:16:ARG:O	48:DP:16:ARG:HD2	2.00	0.62
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.11	0.62
51:DS:106:ARG:HD2	51:DS:108:GLY:N	2.15	0.62
39:DE:69:LYS:HE3	39:DE:90:THR:OG1	1.99	0.62
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.81	0.62
24:CY:113:GLU:HA	24:CY:175:ASN:CA	2.30	0.62
24:CY:113:GLU:CD	24:CY:113:GLU:N	2.53	0.62
9:AI:65:VAL:O	9:AI:66:ARG:HG3	1.99	0.62
39:DE:55:ASN:ND2	39:DE:75:VAL:HG22	2.15	0.62
35:DA:27:G:N2	35:DA:512:G:C2'	2.62	0.62
10:CJ:48:THR:CB	10:CJ:62:HIS:HB3	2.28	0.62
22:AW:38:A:C2'	22:AW:39:U:H5''	2.29	0.62
1:AA:1053:G:H3'	1:AA:1054:C:H5'	1.81	0.62
45:DK:67:PHE:H	45:DK:67:PHE:HD1	1.48	0.62
24:AY:205:PHE:CE2	24:AY:307:TRP:HA	2.34	0.62
38:DD:271:ILE:O	38:DD:272:ALA:HB3	1.98	0.62
45:BK:82:ALA:HB2	45:BK:99:ILE:HD11	1.81	0.62
48:BP:135:LEU:HD13	48:BP:144:GLU:OE2	2.00	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:85:LYS:HD2	42:DH:141:VAL:HG22	1.82	0.62
41:DG:70:VAL:HG12	41:DG:71:THR:N	2.15	0.62
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.12	0.62
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.35	0.62
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.34	0.62
45:BK:51:ALA:HB1	45:BK:76:TYR:CE2	2.35	0.62
39:DE:103:ASP:OD2	39:DE:201:THR:HA	1.99	0.62
19:CS:32:LYS:HD2	19:CS:57:HIS:CD2	2.35	0.62
24:CY:302:VAL:C	24:CY:304:PRO:HD3	2.20	0.62
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.14	0.62
1:AA:908:A:H2'	1:AA:909:A:C8	2.34	0.62
1:AA:908:A:H2'	1:AA:909:A:H8	1.65	0.62
48:DP:52:GLU:HA	48:DP:52:GLU:OE1	1.99	0.62
58:DZ:111:VAL:HG22	58:DZ:112:ARG:N	2.15	0.62
33:B8:31:HIS:C	33:B8:33:ASN:H	2.03	0.62
40:BF:10:PRO:HA	40:BF:128:ALA:HB2	1.81	0.62
35:BA:481:G:H1'	35:BA:506:G:N2	2.14	0.62
35:BA:1747(A):G:O2'	35:BA:1748:G:H5''	2.00	0.62
28:B3:3:ARG:O	28:B3:36:VAL:HA	2.00	0.62
26:D1:3:LYS:HG3	26:D1:4:VAL:HG12	1.81	0.62
54:BV:39:LEU:HB3	54:BV:47:VAL:HG21	1.81	0.62
45:DK:18:THR:N	45:DK:19:PRO:CD	2.62	0.62
35:BA:870:A:OP1	49:BQ:6:ARG:HG3	2.00	0.62
12:CL:47:LYS:CG	12:CL:48:PRO:HD3	2.30	0.62
39:BE:36:ARG:HH12	39:BE:86:PRO:HD2	1.64	0.62
22:AW:59:U:O2'	22:AW:60:U:H5'	2.00	0.62
22:CW:16:U:N3	22:CW:19:G:H5''	2.15	0.62
24:CY:279:LEU:HD23	24:CY:279:LEU:C	2.20	0.62
49:BQ:110:THR:CB	49:BQ:112:GLU:HG2	2.28	0.62
43:BI:4:ILE:HG22	43:BI:5:LEU:H	1.65	0.62
49:DQ:51:ARG:HG2	49:DQ:51:ARG:HH11	1.65	0.62
53:DU:46:ALA:O	53:DU:50:ARG:HB2	2.00	0.62
45:DK:57:ILE:N	45:DK:57:ILE:HD12	2.14	0.62
25:D0:43:THR:H	35:DA:2331:G:H4'	1.65	0.62
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.34	0.62
1:CA:880:C:O2'	1:CA:881:G:H5'	1.99	0.62
35:DA:754:C:H2'	35:DA:755:C:C6	2.35	0.62
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.63	0.62
43:BI:113:ARG:HB2	43:BI:130:TYR:CE1	2.34	0.62
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.65	0.62
38:BD:48:ARG:HH11	38:BD:48:ARG:HG3	1.65	0.62
35:BA:2830:G:H5'	39:BE:58:ARG:HH22	1.64	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:943:U:OP2	48:DP:38:GLN:CD	2.38	0.62
45:DK:91:PRO:C	58:DZ:112:ARG:HH21	2.02	0.62
48:DP:14:LYS:O	48:DP:15:ARG:HG3	1.99	0.62
13:AM:9:ILE:CG2	13:AM:11:ARG:HE	2.11	0.62
18:AR:21:LYS:HZ3	18:AR:54:ARG:C	2.03	0.62
41:BG:59:GLU:O	41:BG:63:ILE:HG23	2.00	0.62
35:BA:271(M):G:O2'	35:BA:271(O):C:H5'	1.99	0.62
35:BA:1171:G:H3'	35:BA:1173:G:C5'	2.30	0.62
9:CI:43:ALA:O	9:CI:45:ALA:N	2.33	0.62
9:CI:89:ASN:HB3	9:CI:92:TYR:CD1	2.34	0.62
54:DV:18:LEU:HD13	54:DV:19:LYS:N	2.14	0.62
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.64	0.62
42:DH:83:TYR:HD1	42:DH:83:TYR:H	1.47	0.62
37:DC:36:LYS:CG	37:DC:37:PHE:H	2.08	0.62
27:D2:59:ARG:O	27:D2:63:VAL:HG23	2.00	0.62
35:DA:1407:C:H42	35:DA:1595:G:H1	1.48	0.62
52:BT:33:LYS:NZ	52:BT:74:ARG:HH21	1.98	0.62
35:BA:330:A:O2'	35:BA:331:A:H8	1.83	0.62
24:CY:315:VAL:HG21	24:CY:320:TYR:CZ	2.34	0.62
60:DI:4:ILE:CG1	60:DI:18:VAL:HG23	2.29	0.62
22:CV:71:G:C2'	22:CV:72:C:C5'	2.74	0.62
49:DQ:43:THR:OG1	49:DQ:46:GLN:HG3	1.99	0.62
58:DZ:117:LEU:CD2	58:DZ:117:LEU:H	2.11	0.62
35:BA:2485:G:H5''	49:BQ:46:GLN:NE2	2.14	0.62
45:BK:57:ILE:N	45:BK:57:ILE:HD12	2.15	0.62
12:CL:70:ILE:HG12	12:CL:100:ILE:HD12	1.81	0.62
35:BA:2836:U:H2'	35:BA:2837:G:H8	1.63	0.62
38:BD:147:LEU:HD11	38:BD:183:ARG:NH1	2.15	0.62
8:AH:12:ARG:HH12	8:AH:27:PRO:HD3	1.64	0.62
34:D9:10:ILE:HG23	35:DA:2477:C:H41	1.65	0.62
1:AA:797:C:OP1	11:AK:124:LYS:HE2	1.99	0.62
54:BV:72:VAL:HG23	54:BV:72:VAL:O	1.99	0.62
8:CH:73:ASP:OD2	8:CH:75:ARG:HD3	2.00	0.62
35:DA:2653:U:C2'	42:DH:110:SER:HB2	2.30	0.62
35:BA:1090:U:H2'	35:BA:1091:G:H8	1.65	0.62
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.00	0.62
35:DA:324:A:H2'	35:DA:325:G:O4'	1.99	0.62
11:CK:15:ALA:HA	11:CK:76:GLY:O	1.99	0.62
60:DI:1:MET:HB2	60:DI:23:PRO:HG3	1.80	0.62
17:CQ:48:GLU:HB2	17:CQ:50:LYS:HG2	1.82	0.62
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.35	0.62
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1314:C:H6	35:DA:1314:C:H5'	1.64	0.62
3:AC:63:ASN:HA	3:AC:98:ASN:HB3	1.82	0.62
42:DH:13:LYS:CA	42:DH:13:LYS:HE2	2.25	0.61
58:DZ:53:ILE:H	58:DZ:53:ILE:HD12	1.64	0.61
35:DA:2349:G:H8	35:DA:2349:G:H5'	1.63	0.61
33:D8:33:ASN:HD22	33:D8:34:TRP:H	1.46	0.61
52:BT:120:ARG:O	52:BT:123:GLN:HG2	2.00	0.61
41:BG:114:ILE:HA	41:BG:140:ILE:HD11	1.81	0.61
48:BP:147:LEU:CG	48:BP:148:LEU:H	2.09	0.61
35:DA:271(M):G:O2'	35:DA:271(O):C:H5'	2.00	0.61
54:DV:18:LEU:HD22	54:DV:19:LYS:H	1.64	0.61
27:B2:3:LEU:HD13	27:B2:4:SER:N	2.15	0.61
39:BE:110:GLY:O	50:BR:2:ARG:NH1	2.33	0.61
33:B8:7:HIS:CB	33:B8:59:LYS:HD2	2.29	0.61
39:BE:69:LYS:HE3	39:BE:90:THR:OG1	2.00	0.61
38:DD:24:ILE:HG13	38:DD:83:GLU:HA	1.81	0.61
35:DA:2401:U:C3'	35:DA:2402:C:H5''	2.29	0.61
58:DZ:35:ARG:O	58:DZ:37:VAL:HG13	2.00	0.61
39:DE:179:GLU:O	39:DE:180:ASN:HB2	1.99	0.61
7:AG:13:GLN:O	7:AG:24:THR:HG21	1.99	0.61
49:DQ:55:VAL:HG12	49:DQ:64:ILE:HD12	1.82	0.61
11:CK:27:ASN:HA	11:CK:56:GLY:HA2	1.81	0.61
35:BA:2262:U:O2'	35:BA:2263:C:H5''	1.99	0.61
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.29	0.61
13:AM:90:LEU:O	13:AM:92:HIS:N	2.33	0.61
47:DO:105:GLU:HA	47:DO:108:GLU:CG	2.30	0.61
35:DA:1431:U:O2'	35:DA:1432:C:H5'	1.99	0.61
4:AD:73:ARG:HH11	4:AD:73:ARG:HB2	1.64	0.61
35:DA:889:C:H1'	35:DA:890:A:O4'	2.00	0.61
1:CA:862:C:C2'	1:CA:863:U:H5'	2.30	0.61
11:AK:79:SER:HB2	11:AK:106:LYS:HD3	1.82	0.61
40:DF:130:ALA:HB3	40:DF:142:TRP:HD1	1.63	0.61
35:DA:606:U:H4'	35:DA:658:C:H4'	1.82	0.61
35:DA:1292:U:O2'	35:DA:1293:C:H5'	2.00	0.61
18:CR:88:LYS:HE2	18:CR:88:LYS:C	2.20	0.61
1:CA:353:A:H5'	1:CA:353:A:H8	1.65	0.61
22:AW:15:G:N3	22:AW:15:G:H2'	2.15	0.61
1:CA:1493:A:H4'	23:CX:22:U:O2	2.00	0.61
1:AA:163:C:H2'	1:AA:164:U:C6	2.35	0.61
35:DA:671:C:O2'	35:DA:672:C:H5'	2.00	0.61
33:B8:34:TRP:CG	33:B8:35:GLN:N	2.66	0.61
35:DA:2702:U:H5	35:DA:2705:A:N6	1.98	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:125:LEU:HD11	40:BF:199:TRP:CD1	2.35	0.61
35:DA:545:C:H2'	35:DA:547:A:O4'	2.00	0.61
30:B5:45:VAL:HG22	30:B5:51:TYR:CE2	2.34	0.61
41:DG:80:PHE:O	41:DG:81:LYS:O	2.19	0.61
41:BG:42:GLY:O	41:BG:43:LEU:HB2	1.99	0.61
52:DT:12:SER:O	52:DT:15:VAL:HG13	1.99	0.61
1:AA:1347:G:C8	9:AI:107:ARG:HB3	2.35	0.61
48:BP:16:ARG:O	48:BP:16:ARG:HD2	2.00	0.61
42:BH:97:ARG:HA	42:BH:125:VAL:HG11	1.80	0.61
38:BD:31:LYS:HG3	38:BD:33:LEU:HG	1.82	0.61
38:DD:31:LYS:HG3	38:DD:33:LEU:HG	1.82	0.61
22:CW:54:U:O2	22:CW:54:U:H2'	2.00	0.61
35:BA:1689:A:H62	35:BA:1698:A:H2	1.49	0.61
8:CH:11:THR:HA	8:CH:14:ARG:HH12	1.65	0.61
51:DS:58:LEU:O	51:DS:59:LYS:O	2.17	0.61
35:DA:185:U:H4'	35:DA:218:A:H4'	1.82	0.61
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.14	0.61
40:BF:32:LEU:O	40:BF:36:VAL:HG23	1.99	0.61
10:CJ:4:ILE:HG12	10:CJ:100:THR:HG22	1.83	0.61
10:CJ:44:VAL:HG12	10:CJ:45:ARG:N	2.15	0.61
35:DA:1805:U:O2	38:DD:50:THR:HB	1.99	0.61
48:BP:81:GLN:HG2	48:BP:106:LEU:HD22	1.80	0.61
47:BO:77:ILE:HD11	52:BT:72:VAL:CG1	2.30	0.61
1:AA:831:U:H2'	1:AA:832:C:H6	1.64	0.61
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.65	0.61
4:CD:162:LEU:HD12	4:CD:181:MET:CE	2.29	0.61
35:BA:1865:G:H5'	35:BA:1866:C:OP2	2.01	0.61
1:CA:416:G:O5'	1:CA:416:G:H8	1.83	0.61
31:B6:22:ALA:HB2	31:B6:39:TYR:CE2	2.35	0.61
1:CA:71:C:H42	1:CA:98:G:H1	1.48	0.61
26:B1:51:VAL:CG1	26:B1:58:ILE:HG22	2.31	0.61
13:AM:9:ILE:HG21	13:AM:11:ARG:HE	1.65	0.61
35:BA:2289:G:H1'	35:BA:2346:A:H2	1.65	0.61
33:D8:31:HIS:C	33:D8:33:ASN:N	2.54	0.61
35:DA:1747(A):G:O2'	35:DA:1748:G:H5''	2.00	0.61
41:BG:116:ASP:O	41:BG:117:PHE:CB	2.48	0.61
5:AE:136:MET:O	5:AE:138:ALA:N	2.33	0.61
8:AH:103:VAL:HG21	8:AH:109:ILE:O	1.99	0.61
52:DT:35:LYS:HZ1	52:DT:41:ARG:HH21	1.47	0.61
19:CS:79:THR:O	19:CS:80:TYR:CB	2.48	0.61
27:D2:2:LYS:HG2	27:D2:3:LEU:N	2.14	0.61
19:CS:45:VAL:HA	19:CS:62:ILE:HG23	1.82	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:70:VAL:O	3:AC:106:VAL:HG23	2.01	0.61
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.65	0.61
39:BE:176:ILE:HG22	39:BE:176:ILE:O	2.00	0.61
7:CG:23:VAL:CG1	7:CG:43:PHE:HE2	2.12	0.61
57:DY:49:VAL:HG12	57:DY:53:PRO:CG	2.29	0.61
35:DA:2147:G:H2'	35:DA:2148:G:O4'	1.99	0.61
58:BZ:115:GLY:HA2	58:BZ:175:VAL:O	2.01	0.61
35:DA:2134:A:H62	35:DA:2157:G:H1'	1.62	0.61
1:AA:1121:U:H2'	1:AA:1122:U:C6	2.32	0.61
26:B1:20:ARG:HG2	26:B1:20:ARG:HH11	1.66	0.61
45:BK:121:GLU:CD	45:BK:121:GLU:H	2.03	0.61
13:CM:90:LEU:O	13:CM:92:HIS:N	2.33	0.61
52:BT:115:ARG:HA	52:BT:115:ARG:NE	2.15	0.61
34:D9:29:ASN:HD21	34:D9:32:HIS:CG	2.18	0.61
19:CS:51:VAL:HG12	19:CS:52:TYR:O	2.01	0.61
1:CA:1065:U:H1'	1:CA:1066:C:OP2	2.00	0.61
35:DA:1100:C:O2'	35:DA:1101:U:H5'	2.01	0.61
35:BA:1100:C:O2'	35:BA:1101:U:H5'	2.00	0.61
12:CL:110:VAL:O	12:CL:122:THR:HG21	2.00	0.61
24:CY:332:ASP:O	24:CY:335:ASN:N	2.33	0.61
60:DI:115:ALA:HB3	60:DI:129:THR:O	1.99	0.61
19:AS:32:LYS:HD2	19:AS:57:HIS:CD2	2.34	0.61
3:AC:42:LEU:O	3:AC:45:LYS:HB2	2.00	0.61
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.00	0.61
35:BA:1473:G:O2'	35:BA:1474:C:H5'	2.00	0.61
1:AA:1037:C:H2'	1:AA:1038:C:C2	2.36	0.61
35:DA:2661:G:H2'	35:DA:2662:A:C8	2.36	0.61
3:CC:34:LEU:O	3:CC:37:GLN:HB2	2.00	0.61
22:AV:50:U:H2'	22:AV:51:U:C6	2.35	0.61
51:DS:96:GLY:O	51:DS:98:VAL:N	2.29	0.61
40:BF:25:PRO:O	40:BF:26:ALA:C	2.39	0.61
13:CM:84:ILE:HG13	19:CS:66:MET:HE2	1.82	0.61
41:DG:51:ARG:NE	41:DG:51:ARG:HA	2.01	0.61
9:AI:53:VAL:HG23	9:AI:55:ALA:H	1.64	0.61
54:BV:18:LEU:HD12	54:BV:18:LEU:N	2.15	0.61
1:AA:620:C:C2	4:AD:135:LEU:HG	2.35	0.61
2:CB:223:ILE:HG22	2:CB:226:ARG:CZ	2.31	0.61
58:BZ:7:ALA:CB	58:BZ:59:LEU:HD22	2.27	0.61
2:AB:223:ILE:HG22	2:AB:226:ARG:CZ	2.30	0.61
35:BA:1407:C:H42	35:BA:1595:G:H1	1.46	0.61
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.65	0.61
35:BA:2401:U:C3'	35:BA:2402:C:H5''	2.29	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:674:G:H1'	40:DF:74:ARG:CD	2.29	0.61
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.99	0.61
43:BI:14:ASP:CG	43:BI:15:VAL:N	2.52	0.61
1:AA:424:G:C8	35:DA:2139:C:H5''	2.34	0.61
46:DN:47:ALA:HB2	46:DN:112:LEU:HD11	1.82	0.61
45:BK:67:PHE:HD1	45:BK:67:PHE:H	1.48	0.61
24:AY:192:PRO:HA	24:AY:200:ARG:O	2.00	0.61
33:D8:15:LYS:HG3	48:DP:65:ARG:HH21	1.66	0.61
12:AL:70:ILE:HG12	12:AL:100:ILE:HD12	1.82	0.61
1:CA:674:G:H2'	1:CA:675:A:H8	1.65	0.61
55:BW:15:ARG:HA	55:BW:18:ARG:HD2	1.82	0.61
1:AA:80:G:H5''	1:AA:83:U:OP1	2.01	0.61
42:BH:85:LYS:HD2	42:BH:141:VAL:HG22	1.83	0.61
22:AW:76:A:O2'	35:BA:2394:C:N3	2.33	0.61
46:BN:78:TYR:H	46:BN:78:TYR:HD1	1.49	0.61
1:AA:1493:A:H1'	24:AY:124:ALA:HA	1.83	0.61
52:BT:54:ARG:HH11	52:BT:54:ARG:HG2	1.65	0.61
35:BA:1431:U:O2'	35:BA:1432:C:H5'	2.01	0.61
37:BC:64:LEU:HG	37:BC:163:PHE:CB	2.30	0.61
1:CA:366:C:O2'	1:CA:367:U:H5''	2.00	0.61
39:DE:79:ARG:HH12	39:DE:195:LEU:CD2	2.13	0.61
41:DG:37:VAL:HG23	41:DG:99:MET:HG3	1.83	0.61
35:DA:2298:A:H2'	35:DA:2299:G:O4'	2.01	0.61
26:D1:13:ILE:HD11	26:D1:42:GLN:OE1	1.99	0.61
35:BA:2152:G:H2'	35:BA:2153:G:H8	1.63	0.61
37:BC:103:ILE:C	37:BC:105:ASP:H	2.03	0.61
35:DA:1459:G:H2'	35:DA:1459:G:N3	2.15	0.61
31:B6:27:LYS:HE3	35:BA:2285:C:C5	2.35	0.61
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.83	0.61
9:CI:49:PRO:HB3	9:CI:101:PHE:CD2	2.35	0.61
24:CY:31:ARG:CD	24:CY:31:ARG:H	2.13	0.61
52:BT:108:ARG:HH11	52:BT:108:ARG:HB2	1.64	0.61
2:CB:185:ILE:HD11	2:CB:199:TYR:HD1	1.65	0.61
49:DQ:5:ARG:O	49:DQ:6:ARG:HG2	2.00	0.61
35:DA:654(L):G:H2'	35:DA:654(M):C:C1'	2.31	0.61
52:BT:62:THR:HG22	52:BT:75:ILE:HG12	1.81	0.61
58:DZ:10:ARG:HH11	58:DZ:36:LYS:HB3	1.64	0.61
9:AI:66:ARG:HH11	9:AI:66:ARG:HB2	1.66	0.61
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.35	0.61
25:B0:32:ARG:N	25:B0:35:ASN:HD22	1.99	0.61
1:AA:972:C:O3'	10:AJ:57:LYS:HG3	2.00	0.61
11:CK:57:THR:HG22	11:CK:59:TYR:H	1.64	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:72:GLY:HA2	2:AB:165:VAL:CG2	2.30	0.61
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.64	0.61
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.30	0.61
10:AJ:4:ILE:HG12	10:AJ:100:THR:CG2	2.30	0.61
35:DA:321:G:C2	40:DF:165:ARG:NH1	2.68	0.61
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.30	0.61
48:DP:135:LEU:HD13	48:DP:144:GLU:OE2	2.01	0.61
1:CA:601:C:H2'	1:CA:602:A:C8	2.36	0.61
40:DF:178:PRO:HB2	40:DF:201:VAL:HG11	1.83	0.61
51:DS:36:TYR:HD1	51:DS:36:TYR:N	1.99	0.61
13:CM:23:TYR:CE1	13:CM:71:ARG:HB2	2.36	0.61
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.36	0.61
28:D3:2:PRO:O	28:D3:4:LEU:N	2.33	0.61
41:BG:68:PRO:HA	41:BG:92:VAL:HB	1.83	0.61
9:CI:48:GLU:HB3	9:CI:101:PHE:HE2	1.65	0.61
31:B6:20:ASN:O	31:B6:21:TYR:CG	2.53	0.61
31:B6:36:LEU:HD13	31:B6:50:ARG:NH1	2.14	0.61
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.27	0.61
9:AI:49:PRO:HB3	9:AI:101:PHE:CD2	2.36	0.61
35:DA:686:G:N2	35:DA:788:A:H61	1.99	0.61
10:CJ:84:GLN:O	10:CJ:88:LEU:HB3	2.01	0.61
58:DZ:10:ARG:NH1	58:DZ:36:LYS:HB3	2.15	0.61
39:DE:176:ILE:HG22	39:DE:176:ILE:O	2.01	0.61
35:BA:61:G:H1	35:BA:94:C:H42	1.48	0.61
11:AK:57:THR:HG22	11:AK:59:TYR:H	1.64	0.61
2:CB:82:ARG:CB	2:CB:92:TYR:HE1	2.13	0.61
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.34	0.61
35:BA:889:C:H1'	35:BA:890:A:O4'	2.00	0.61
24:CY:150:GLN:HB2	24:CY:172:LYS:HB2	1.81	0.61
47:DO:47:ILE:HG23	47:DO:48:PRO:HD2	1.81	0.61
17:AQ:76:LEU:HG	17:AQ:77:VAL:H	1.65	0.61
34:B9:30:PRO:HB2	35:BA:2527:C:H5'	1.81	0.61
35:DA:2196:C:O2'	35:DA:2197:U:H5'	2.00	0.61
36:DB:17:C:O2'	36:DB:18:G:H5'	2.01	0.61
50:DR:8:ARG:HA	50:DR:8:ARG:NE	2.15	0.61
58:BZ:98:MET:O	58:BZ:125:LEU:HA	2.00	0.61
49:DQ:140:ALA:HA	58:DZ:99:TYR:CD1	2.35	0.61
31:B6:38:LYS:HD2	35:BA:2344:U:OP1	2.01	0.61
31:D6:9:LEU:O	31:D6:25:LYS:HA	2.00	0.61
31:D6:34:LEU:O	31:D6:35:GLU:HB2	2.00	0.61
52:BT:27:THR:O	52:BT:28:VAL:CB	2.49	0.61
40:DF:24:LEU:HD12	40:DF:25:PRO:CD	2.20	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:996:A:C4'	53:DU:92:ARG:HD2	2.27	0.61
48:BP:114:ILE:HD13	48:BP:127:ALA:HB2	1.82	0.61
18:CR:21:LYS:HZ3	18:CR:55:ARG:N	1.99	0.61
42:DH:170:ARG:H	42:DH:170:ARG:HD2	1.64	0.61
31:B6:15:GLU:OE1	31:B6:18:ARG:CG	2.48	0.61
35:DA:1528(A):A:C3'	35:DA:1529:G:H5''	2.31	0.61
27:B2:61:LEU:CD2	27:B2:61:LEU:H	2.11	0.61
35:DA:2123:G:O2'	37:DC:176:GLY:HA2	1.99	0.61
56:DX:35:THR:HG22	56:DX:37:THR:H	1.64	0.61
60:DI:47:LEU:O	60:DI:51:ILE:HG13	2.01	0.61
51:BS:58:LEU:O	51:BS:59:LYS:O	2.19	0.61
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	2.00	0.61
36:BB:117:G:C5'	51:BS:55:ALA:HB1	2.31	0.61
2:AB:82:ARG:CB	2:AB:92:TYR:HE1	2.13	0.61
60:DI:109:ILE:H	60:DI:109:ILE:HD13	1.65	0.61
20:CT:29:LYS:O	20:CT:33:ILE:HG12	2.00	0.61
53:BU:50:ARG:NH2	54:BV:72:VAL:HG12	2.15	0.61
35:BA:1562:A:H2'	35:BA:1563:G:H8	1.63	0.61
26:D1:26:ARG:HG3	26:D1:27:GLU:H	1.65	0.61
52:DT:54:ARG:HG2	52:DT:54:ARG:HH11	1.65	0.61
45:BK:111:LYS:C	45:BK:113:PRO:HD2	2.21	0.61
25:D0:18:ALA:HB1	35:DA:2271:G:OP1	1.99	0.61
11:CK:17:GLY:HA3	11:CK:77:MET:SD	2.40	0.61
49:DQ:33:GLY:HA2	49:DQ:105:GLU:HA	1.83	0.61
1:AA:71:C:H42	1:AA:98:G:H1	1.47	0.61
1:AA:1499:A:H5'	1:AA:1499:A:H8	1.65	0.61
41:DG:21:ARG:HD2	41:DG:22:ARG:N	2.16	0.61
27:D2:69:ARG:NH1	35:DA:111:A:H5''	2.15	0.61
1:AA:358:U:OP1	60:DI:121:LYS:HE3	1.99	0.61
28:D3:3:ARG:CB	28:D3:36:VAL:HB	2.22	0.61
58:BZ:141:VAL:HG13	58:BZ:141:VAL:O	2.00	0.61
4:CD:18:LYS:HE3	4:CD:31:CYS:HB3	1.81	0.61
9:CI:51:ARG:HG2	9:CI:56:LEU:HD12	1.82	0.61
31:B6:44:ARG:C	31:B6:45:LYS:HG2	2.19	0.61
35:DA:1827:C:H2'	35:DA:1828:G:H5'	1.82	0.61
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.01	0.61
9:AI:48:GLU:HB3	9:AI:101:PHE:HE2	1.66	0.61
19:CS:9:VAL:O	19:CS:11:VAL:N	2.34	0.61
2:CB:18:GLY:N	2:CB:42:ILE:HG22	2.12	0.61
38:DD:31:LYS:HE3	38:DD:33:LEU:HD21	1.82	0.61
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.64	0.61
13:AM:116:THR:O	13:AM:117:VAL:HB	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:29:LYS:O	20:AT:33:ILE:HG12	2.01	0.61
45:DK:121:GLU:CD	45:DK:121:GLU:H	2.04	0.61
27:B2:38:GLN:HB2	27:B2:44:LEU:CB	2.31	0.61
42:BH:38:SER:O	42:BH:40:GLU:N	2.34	0.61
19:AS:31:ILE:HG23	19:AS:31:ILE:O	2.01	0.61
25:B0:43:THR:H	35:BA:2331:G:H4'	1.65	0.61
7:AG:148:ASN:N	7:AG:148:ASN:HD22	1.97	0.61
1:CA:1285:A:H1'	1:CA:1286:A:OP2	2.00	0.61
1:CA:1095:U:H5'	1:CA:1109:C:O2	2.00	0.61
26:B1:19:GLN:CB	26:B1:35:THR:HG22	2.31	0.61
35:DA:1812:A:H2'	35:DA:1813:G:H8	1.66	0.61
1:CA:336:C:O2'	1:CA:337:C:H5'	2.00	0.61
16:CP:39:TYR:CG	16:CP:40:ASP:N	2.69	0.61
2:AB:116:GLU:HA	2:AB:119:GLU:HB2	1.82	0.61
50:DR:72:ASP:HB3	50:DR:75:LEU:HB2	1.83	0.61
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.01	0.61
35:DA:1771:C:HO2'	35:DA:1786:A:H8	1.47	0.61
33:D8:10:ALA:HB2	33:D8:59:LYS:NZ	2.14	0.61
33:B8:33:ASN:O	35:BA:2420:C:OP2	2.19	0.61
24:AY:62:PHE:O	24:AY:66:GLU:N	2.34	0.61
54:DV:47:VAL:HG11	54:DV:50:PRO:O	2.01	0.61
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.00	0.61
35:DA:2126:A:H61	35:DA:2163:C:H4'	1.61	0.61
2:CB:223:ILE:HG22	2:CB:226:ARG:NH1	2.15	0.61
58:BZ:93:ASP:HA	58:BZ:130:PRO:CD	2.31	0.61
17:AQ:52:LYS:CD	17:AQ:52:LYS:H	2.12	0.61
3:CC:109:PRO:HB3	3:CC:115:LEU:HD13	1.82	0.61
4:CD:108:LEU:O	4:CD:110:PHE:HD1	1.82	0.61
2:CB:71:VAL:CG2	2:CB:164:VAL:HG22	2.30	0.61
35:BA:287:C:H6	35:BA:287:C:H5'	1.65	0.61
13:CM:116:THR:O	13:CM:117:VAL:HB	2.01	0.61
1:AA:1320:C:C2	19:AS:72:GLY:HA3	2.36	0.61
47:DO:101:PRO:O	47:DO:102:VAL:HG13	2.00	0.61
1:CA:1015:A:H1'	1:CA:1218:C:O2'	2.00	0.61
22:CV:30:G:C2'	22:CV:31:A:H5'	2.31	0.61
15:CO:39:LEU:O	15:CO:42:HIS:HB3	2.01	0.61
35:DA:999:U:H5''	35:DA:1154:G:O6	2.01	0.61
12:CL:53:ARG:HB3	12:CL:93:LEU:HD11	1.81	0.61
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.01	0.61
35:DA:1513:C:H2'	35:DA:1514:U:H6	1.65	0.61
15:CO:62:GLN:O	15:CO:66:LEU:HD13	2.01	0.61
24:CY:142:ARG:O	24:CY:146:ARG:HG3	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:81:GLN:HG2	48:DP:106:LEU:HD22	1.83	0.61
35:DA:2691:C:H6	35:DA:2691:C:H5'	1.64	0.61
50:DR:59:ASP:OD2	50:DR:59:ASP:N	2.34	0.61
1:AA:161:A:H2'	1:AA:162:A:C8	2.36	0.61
13:CM:4:ILE:HD13	13:CM:56:LEU:HD12	1.83	0.61
26:B1:50:ARG:O	26:B1:51:VAL:HB	2.01	0.61
35:BA:271(G):C:H2'	35:BA:271(H):G:H8	1.65	0.61
13:CM:3:ARG:HD2	59:D4:60:GLU:OE1	2.01	0.61
31:B6:11:LEU:HD21	31:B6:26:ASN:H	1.64	0.61
52:DT:27:THR:HG22	52:DT:49:VAL:HB	1.82	0.61
4:CD:17:VAL:HG12	4:CD:18:LYS:N	2.15	0.61
48:BP:112:LEU:CD2	48:BP:114:ILE:HD12	2.31	0.61
1:AA:558:G:C3'	1:AA:559:A:H5''	2.24	0.61
9:CI:90:PRO:HG2	9:CI:91:ASP:H	1.65	0.61
31:D6:20:ASN:O	31:D6:21:TYR:CG	2.53	0.61
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.66	0.61
46:BN:15:LEU:HB2	46:BN:134:ARG:HB2	1.83	0.61
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.16	0.61
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.01	0.61
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.01	0.61
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.14	0.61
35:BA:2290:G:H5'	35:BA:2290:G:C8	2.33	0.61
10:AJ:84:GLN:O	10:AJ:88:LEU:HB3	2.00	0.61
42:DH:38:SER:O	42:DH:40:GLU:N	2.34	0.61
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.15	0.61
1:AA:277:C:H5''	17:AQ:68:ARG:NH2	2.15	0.61
35:BA:405:U:H3'	35:BA:406:G:C5'	2.29	0.61
6:CF:61:LEU:HD23	6:CF:63:TYR:OH	2.01	0.61
1:CA:973:G:H3'	1:CA:974:A:H5''	1.82	0.61
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.01	0.61
35:BA:2653:U:C2'	42:BH:110:SER:HB2	2.30	0.61
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.66	0.61
1:CA:308:C:H2'	1:CA:309:G:H8	1.66	0.61
51:BS:79:ALA:C	51:BS:80:LEU:HD12	2.22	0.61
44:BJ:26:UNK:HA	44:BJ:84:UNK:HA	1.83	0.61
12:CL:34:ARG:O	12:CL:61:THR:HG23	2.00	0.61
32:B7:24:THR:HG23	32:B7:27:GLY:H	1.64	0.61
13:AM:68:GLY:HA2	13:AM:71:ARG:HB3	1.83	0.60
2:CB:184:VAL:HG12	2:CB:197:VAL:HG13	1.82	0.60
40:DF:20:LEU:HD22	40:DF:203:GLN:OE1	2.01	0.60
24:CY:19:ILE:H	24:CY:20:PRO:HD2	1.66	0.60
41:BG:107:LEU:CD1	41:BG:177:GLY:HA3	2.28	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:31:ARG:HH11	45:BK:34:ILE:HG13	1.66	0.60
48:DP:114:ILE:HD13	48:DP:127:ALA:HB2	1.83	0.60
42:DH:159:GLU:HG3	42:DH:160:LYS:N	2.17	0.60
31:D6:41:PRO:HG2	31:D6:43:CYS:H	1.66	0.60
24:CY:30:GLU:HB3	45:DK:25:PRO:CG	2.31	0.60
52:DT:33:LYS:NZ	52:DT:74:ARG:HH21	1.99	0.60
51:DS:89:ARG:HD2	51:DS:92:TYR:N	2.14	0.60
39:DE:110:GLY:O	50:DR:2:ARG:HD3	2.00	0.60
37:BC:49:ILE:HG13	37:BC:50:ASP:N	2.10	0.60
27:B2:2:LYS:HA	27:B2:5:GLU:OE1	2.01	0.60
51:BS:106:ARG:HD2	51:BS:108:GLY:N	2.16	0.60
38:BD:31:LYS:HE3	38:BD:33:LEU:HD21	1.82	0.60
35:BA:1082:U:C5'	45:BK:117:THR:HG22	2.31	0.60
39:BE:49:LEU:HD12	39:BE:49:LEU:N	2.14	0.60
22:CW:56:C:O4'	35:DA:2169:A:H1'	2.00	0.60
5:AE:41:VAL:O	5:AE:66:MET:HA	2.01	0.60
51:BS:52:SER:OG	51:BS:55:ALA:HB3	2.01	0.60
35:BA:1036:G:H2'	35:BA:1037:G:C8	2.36	0.60
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.36	0.60
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.36	0.60
8:AH:63:LEU:HB2	8:AH:65:TYR:HE1	1.66	0.60
22:AW:30:G:H2'	22:AW:31:A:H8	1.64	0.60
1:AA:838:G:C2'	1:AA:839:U:H5''	2.31	0.60
1:AA:275:G:H2'	1:AA:276:G:H8	1.65	0.60
35:BA:1286:A:O2'	35:BA:1288:U:OP2	2.18	0.60
1:CA:820:U:H4'	1:CA:821:G:OP2	2.00	0.60
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.66	0.60
1:CA:294:U:H2'	1:CA:295:C:H6	1.65	0.60
2:CB:116:GLU:HA	2:CB:119:GLU:HB2	1.83	0.60
12:CL:60:LEU:HD22	12:CL:60:LEU:H	1.66	0.60
51:BS:96:GLY:O	51:BS:98:VAL:N	2.30	0.60
33:D8:31:HIS:C	33:D8:33:ASN:H	2.04	0.60
35:BA:1495:A:N3	35:BA:1496:A:C2	2.69	0.60
35:BA:481:G:OP2	57:BY:47:LYS:HG3	2.01	0.60
35:BA:1173:G:C3'	35:BA:1174:A:H5'	2.26	0.60
55:BW:4:LYS:HD2	55:BW:6:ILE:HD11	1.83	0.60
1:CA:328:C:H2'	1:CA:328:C:O2	2.00	0.60
45:DK:51:ALA:HB1	45:DK:76:TYR:CE2	2.36	0.60
52:DT:16:ARG:HH11	52:DT:16:ARG:HG3	1.65	0.60
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	2.01	0.60
58:BZ:68:PRO:HB2	58:BZ:91:LEU:HB2	1.83	0.60
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.82	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BX:35:THR:HG22	56:BX:37:THR:H	1.67	0.60
51:DS:82:ILE:O	51:DS:83:LYS:HG2	2.01	0.60
38:DD:131:LEU:O	38:DD:131:LEU:HD12	2.01	0.60
35:DA:61:G:H1	35:DA:94:C:H42	1.48	0.60
12:AL:27:LEU:HG	12:AL:28:LYS:HG3	1.83	0.60
42:BH:55:PRO:HG2	42:BH:61:HIS:ND1	2.16	0.60
1:CA:80:G:H5''	1:CA:83:U:OP1	2.01	0.60
1:CA:664:G:H22	1:CA:741:G:H1	1.48	0.60
1:CA:376:G:P	16:CP:67:THR:HG21	2.40	0.60
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.01	0.60
1:CA:908:A:H2'	1:CA:909:A:H8	1.65	0.60
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.00	0.60
35:DA:1790:C:H5''	35:DA:1791:A:OP1	2.02	0.60
1:CA:444:C:H2'	1:CA:445:G:H8	1.65	0.60
60:DI:2:LYS:HD2	60:DI:20:ASP:HB3	1.83	0.60
1:CA:913:A:H4'	1:CA:914:A:O5'	2.01	0.60
24:CY:177:TYR:CE1	24:CY:212:PRO:HD3	2.36	0.60
24:CY:188:ARG:HD3	24:CY:310:GLN:HG2	1.83	0.60
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	1.83	0.60
2:CB:158:LEU:HD12	2:CB:158:LEU:H	1.66	0.60
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.01	0.60
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.66	0.60
41:DG:15:VAL:O	41:DG:19:LEU:HG	2.01	0.60
48:DP:24:GLY:HA3	48:DP:33:ARG:NH1	2.16	0.60
41:BG:91:ARG:HD2	41:BG:92:VAL:N	2.16	0.60
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.01	0.60
27:B2:39:ALA:HA	27:B2:45:SER:CB	2.25	0.60
42:BH:89:ILE:HD12	42:BH:90:LYS:N	2.16	0.60
35:BA:832:G:H4'	48:BP:45:LEU:HD21	1.83	0.60
9:CI:53:VAL:HG23	9:CI:55:ALA:H	1.65	0.60
10:CJ:97:GLU:C	10:CJ:98:ILE:HD12	2.21	0.60
51:DS:17:ARG:C	51:DS:19:LYS:N	2.49	0.60
10:AJ:97:GLU:C	10:AJ:98:ILE:HD12	2.20	0.60
20:CT:100:ILE:H	20:CT:100:ILE:HD12	1.65	0.60
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.83	0.60
58:DZ:61:LEU:HD22	58:DZ:61:LEU:H	1.66	0.60
5:CE:8:GLU:HA	5:CE:33:VAL:O	2.02	0.60
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.00	0.60
35:BA:284:U:H2'	35:BA:285:C:H6	1.67	0.60
1:CA:1188:A:C2'	1:CA:1189:C:H5'	2.30	0.60
43:BI:92:VAL:HG13	43:BI:120:ILE:HB	1.83	0.60
2:AB:101:MET:HA	2:AB:108:ILE:HG13	1.84	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:405:U:H3'	35:DA:406:G:C5'	2.30	0.60
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.65	0.60
11:CK:46:GLY:HA2	11:CK:50:TYR:O	2.00	0.60
35:DA:151:C:O2'	35:DA:152:G:H5'	2.01	0.60
24:AY:189:LEU:HD13	24:AY:189:LEU:C	2.22	0.60
1:AA:1000:U:H2'	1:AA:1001:A:H8	1.66	0.60
33:D8:12:LYS:HE2	35:DA:249:C:O2	2.00	0.60
43:BI:66:GLU:OE1	43:BI:69:LYS:HD2	2.00	0.60
1:CA:522:C:H41	12:CL:53:ARG:NH2	1.99	0.60
35:DA:1507:A:H2'	35:DA:1508:A:O4'	2.00	0.60
5:CE:72:GLN:O	5:CE:73:ASN:CB	2.48	0.60
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.01	0.60
1:CA:66:G:H4'	1:CA:173:U:C5	2.36	0.60
1:AA:930:C:O2'	1:AA:931:C:H5'	2.01	0.60
35:BA:1507:A:H2'	35:BA:1508:A:O4'	2.01	0.60
1:CA:1037:C:H2'	1:CA:1038:C:C2	2.35	0.60
10:AJ:9:ARG:CZ	10:AJ:95:GLU:HG2	2.31	0.60
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.83	0.60
13:AM:112:GLY:O	13:AM:113:PRO:C	2.40	0.60
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.66	0.60
16:AP:43:LYS:HG3	16:AP:48:TRP:CE3	2.35	0.60
1:AA:1172:C:H2'	1:AA:1173:G:H8	1.65	0.60
58:DZ:166:SER:OG	58:DZ:167:PRO:HA	2.01	0.60
1:AA:355:C:N4	1:AA:356:A:H62	1.99	0.60
60:DI:122:GLU:CG	60:DI:123:LEU:H	2.15	0.60
35:BA:896:A:H5''	58:BZ:146:ILE:HG13	1.84	0.60
48:BP:147:LEU:HB2	48:BP:148:LEU:HD13	1.84	0.60
31:D6:17:LYS:HD3	31:D6:17:LYS:C	2.22	0.60
2:AB:223:ILE:HG22	2:AB:226:ARG:NH1	2.16	0.60
1:CA:356:A:H2	1:CA:357:G:H1'	1.67	0.60
56:BX:30:VAL:HG21	56:BX:79:ALA:HB3	1.83	0.60
38:DD:92:ILE:HD13	38:DD:104:TYR:HD2	1.66	0.60
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.82	0.60
1:CA:918:A:H2'	1:CA:919:A:H8	1.66	0.60
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.84	0.60
35:DA:910:A:N7	49:DQ:13:GLN:HG3	2.16	0.60
24:AY:251:VAL:HG11	24:AY:276:LEU:HD23	1.82	0.60
39:DE:23:VAL:HA	39:DE:184:VAL:O	2.01	0.60
15:AO:61:GLY:O	15:AO:65:ARG:HD3	2.01	0.60
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.16	0.60
1:AA:973:G:H3'	1:AA:974:A:H5''	1.82	0.60
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:29:SER:HB3	8:CH:32:LYS:CB	2.32	0.60
8:AH:63:LEU:H	8:AH:63:LEU:HD22	1.66	0.60
35:DA:1093:G:O2'	35:DA:1094:U:H5'	2.00	0.60
26:B1:19:GLN:HB3	26:B1:35:THR:HG22	1.83	0.60
22:CV:50:U:C2'	22:CV:51:U:H5'	2.31	0.60
35:DA:832:G:H4'	48:DP:45:LEU:HD21	1.83	0.60
35:BA:2298:A:H2'	35:BA:2299:G:O4'	2.01	0.60
1:CA:161:A:H2'	1:CA:162:A:C8	2.36	0.60
55:DW:64:MET:O	55:DW:65:LEU:HB3	2.01	0.60
10:AJ:79:ARG:HB3	9:CI:54:ASP:OD2	2.00	0.60
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.00	0.60
35:DA:1005:C:H2'	35:DA:1006:C:C6	2.36	0.60
2:AB:158:LEU:H	2:AB:158:LEU:HD12	1.66	0.60
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.66	0.60
16:AP:39:TYR:CG	16:AP:40:ASP:N	2.69	0.60
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.82	0.60
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.02	0.60
24:AY:16:TYR:O	24:AY:20:PRO:HG3	2.02	0.60
35:BA:1093:G:O2'	35:BA:1094:U:H5'	2.00	0.60
41:BG:97:ASP:HA	41:BG:100:TRP:CD1	2.36	0.60
35:BA:1257:C:H4'	40:BF:83:PHE:CD2	2.37	0.60
35:BA:1827:C:H2'	35:BA:1828:G:H5'	1.84	0.60
24:AY:214:VAL:HG13	24:AY:215:ASP:N	2.09	0.60
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.01	0.60
3:CC:106:VAL:HG12	3:CC:108:ASN:H	1.66	0.60
35:DA:2377:A:H4'	51:DS:107:GLU:O	2.01	0.60
8:AH:30:ARG:CZ	8:AH:30:ARG:HB3	2.32	0.60
22:CW:16:U:H3	22:CW:19:G:H5''	1.66	0.60
52:BT:16:ARG:HG3	52:BT:16:ARG:HH11	1.67	0.60
1:CA:1456:G:H2'	1:CA:1457:G:O4'	2.02	0.60
55:BW:75:TYR:HE1	55:BW:104:THR:HB	1.65	0.60
49:DQ:63:LYS:HZ3	58:DZ:175:VAL:HG21	1.65	0.60
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.01	0.60
26:B1:29:GLY:O	26:B1:30:VAL:HG22	2.00	0.60
20:CT:13:LEU:HD12	20:CT:14:LYS:N	2.16	0.60
24:CY:12:GLY:O	24:CY:14:ARG:N	2.35	0.60
57:DY:95:LYS:HG2	57:DY:100:ALA:HA	1.82	0.60
56:BX:63:LYS:HA	56:BX:72:LYS:HA	1.84	0.60
35:BA:1448:G:H2'	35:BA:1449:A:C8	2.37	0.60
1:CA:1172:C:H2'	1:CA:1173:G:H8	1.67	0.60
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.67	0.60
41:DG:54:GLU:O	41:DG:57:ALA:HB3	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2295:C:O2'	35:DA:2296:U:H5'	2.00	0.60
35:BA:1973:G:H2'	35:BA:1974:C:C6	2.37	0.60
35:DA:1644:C:O2	35:DA:1644:C:H2'	2.01	0.60
35:DA:1865:G:H5'	35:DA:1866:C:OP2	2.02	0.60
12:CL:71:PRO:O	12:CL:102:ARG:HD2	2.01	0.60
26:B1:86:SER:O	26:B1:90:ILE:HG12	2.00	0.60
58:BZ:39:VAL:HG11	58:BZ:88:PHE:HZ	1.67	0.60
31:D6:28:ARG:CA	31:D6:32:ASN:HD22	2.08	0.60
24:AY:34:GLU:HG3	24:AY:34:GLU:O	2.02	0.60
24:AY:41:ASP:N	24:AY:42:PRO:CD	2.64	0.60
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	1.83	0.60
25:D0:12:ASN:C	25:D0:14:ARG:H	2.04	0.60
42:DH:91:GLY:CA	42:DH:160:LYS:HB3	2.31	0.60
42:DH:89:ILE:HD12	42:DH:90:LYS:N	2.16	0.60
57:BY:30:VAL:HG12	57:BY:31:LEU:N	2.16	0.60
52:BT:106:SER:HB2	52:BT:110:ILE:CD1	2.28	0.60
5:CE:136:MET:O	5:CE:138:ALA:N	2.35	0.60
35:BA:1529:G:H21	35:BA:1530:C:H3'	1.65	0.60
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.00	0.60
38:BD:27:THR:HG23	38:BD:27:THR:O	1.99	0.60
48:BP:69:GLY:O	48:BP:70:GLN:HB2	1.99	0.60
3:AC:109:PRO:HB3	3:AC:115:LEU:HD13	1.83	0.60
24:AY:175:ASN:O	24:AY:179:LEU:HG	2.02	0.60
48:BP:138:LEU:C	48:BP:140:ALA:H	2.03	0.60
35:DA:1468:C:H2'	35:DA:1469:A:C8	2.36	0.60
42:DH:55:PRO:HG2	42:DH:61:HIS:ND1	2.16	0.60
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.01	0.60
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.02	0.60
39:BE:120:TRP:CE2	39:BE:155:LYS:HD3	2.37	0.60
54:BV:79:VAL:O	54:BV:79:VAL:HG12	2.02	0.60
43:BI:28:ASN:C	43:BI:32:PRO:HG2	2.21	0.60
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.36	0.60
1:AA:1041:A:H2'	1:AA:1042:G:H8	1.67	0.60
7:AG:148:ASN:C	7:AG:150:ALA:H	2.04	0.60
35:BA:2864:G:OP1	52:BT:119:LYS:HE2	2.01	0.60
15:AO:3:ILE:H	15:AO:3:ILE:HD13	1.66	0.60
26:B1:62:VAL:HG13	26:B1:63:ALA:O	2.02	0.60
13:CM:112:GLY:O	13:CM:113:PRO:C	2.39	0.60
55:BW:12:ILE:HB	55:BW:42:ARG:HH12	1.67	0.60
49:BQ:60:ARG:NH1	49:BQ:60:ARG:HB3	2.16	0.60
7:AG:18:TYR:HD2	7:AG:59:LEU:HD22	1.65	0.60
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.37	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DQ:141:GLN:OXT	58:DZ:53:ILE:O	2.19	0.60
35:BA:589:C:H2'	35:BA:590:A:H8	1.67	0.60
16:AP:36:ILE:HG13	16:AP:37:GLY:H	1.66	0.60
41:BG:86:MET:N	41:BG:87:PRO:HD2	2.17	0.60
57:BY:28:LYS:N	57:BY:28:LYS:HE3	2.17	0.60
52:BT:12:SER:O	52:BT:15:VAL:HG13	2.02	0.60
8:AH:104:ARG:O	8:AH:105:ARG:HB2	2.02	0.60
19:AS:63:THR:HG22	19:AS:66:MET:CE	2.31	0.60
1:CA:1347:G:C8	9:CI:107:ARG:HB3	2.37	0.60
57:DY:29:GLU:N	57:DY:29:GLU:OE1	2.32	0.60
43:BI:9:LEU:HD12	43:BI:12:LEU:CD1	2.30	0.60
1:CA:359:U:H2'	1:CA:360:A:C8	2.37	0.60
7:CG:136:LYS:C	7:CG:138:LYS:H	2.03	0.60
45:DK:32:ALA:HA	45:DK:63:ARG:HB2	1.82	0.60
42:BH:115:VAL:CG1	42:BH:148:ILE:HD11	2.32	0.60
24:CY:306:GLU:HG3	24:CY:307:TRP:N	2.17	0.60
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.83	0.60
33:B8:15:LYS:HG3	48:BP:65:ARG:HH21	1.67	0.60
35:BA:2729:G:H1'	39:BE:187:ALA:HB3	1.83	0.60
7:CG:154:TYR:O	7:CG:156:TRP:N	2.31	0.60
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.37	0.60
26:B1:45:ASN:HD21	35:BA:2090:G:H21	1.47	0.60
36:BB:17:C:O2'	36:BB:18:G:H5'	2.01	0.60
38:DD:206:LEU:HA	38:DD:211:ARG:HE	1.65	0.60
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.02	0.60
8:AH:77:GLU:HG2	8:AH:78:GLN:N	2.16	0.60
35:DA:2734:A:H5'	35:DA:2735:G:OP2	2.01	0.60
53:DU:102:GLU:HG3	54:DV:2:PHE:CE1	2.37	0.60
35:DA:1448:G:H2'	35:DA:1449:A:C8	2.36	0.60
20:AT:59:ALA:O	20:AT:63:ILE:HG13	2.02	0.60
35:BA:1459:G:H2'	35:BA:1459:G:N3	2.17	0.60
44:BJ:130:UNK:C	44:BJ:132:UNK:N	2.64	0.60
35:BA:1047:G:O2'	35:BA:1110:G:C2	2.54	0.60
53:DU:8:VAL:HG11	53:DU:12:ARG:CZ	2.31	0.60
41:DG:6:ALA:O	41:DG:9:ARG:N	2.34	0.60
35:BA:2756:U:H4'	35:BA:2757:A:OP1	2.01	0.60
33:B8:31:HIS:C	33:B8:33:ASN:N	2.54	0.60
4:AD:17:VAL:HG12	4:AD:18:LYS:N	2.17	0.60
41:DG:47:LYS:HG2	41:DG:82:LEU:CD1	2.31	0.60
29:B4:50:THR:HG22	29:B4:51:TYR:N	2.17	0.60
54:BV:47:VAL:HG11	54:BV:50:PRO:O	2.02	0.60
45:DK:18:THR:H	45:DK:19:PRO:HD2	1.66	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:30:GLU:HB3	45:DK:25:PRO:HG2	1.84	0.60
35:DA:780:G:N2	35:DA:783:A:H62	1.96	0.60
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.27	0.60
19:AS:45:VAL:HA	19:AS:62:ILE:HG23	1.82	0.60
52:BT:100:TYR:HD2	52:BT:103:ARG:NH2	1.92	0.60
53:BU:91:ASP:CG	53:BU:96:ALA:HB2	2.21	0.60
35:DA:662:G:P	48:DP:18:ARG:HD2	2.42	0.60
52:DT:106:SER:HB2	52:DT:110:ILE:CD1	2.28	0.60
24:CY:138:ARG:HG3	24:CY:139:MET:H	1.65	0.60
38:BD:24:ILE:HG13	38:BD:83:GLU:HA	1.82	0.60
38:DD:27:THR:HG23	38:DD:27:THR:O	2.00	0.60
39:DE:69:LYS:HZ1	39:DE:89:ASP:HA	1.65	0.60
35:DA:93:G:H2'	35:DA:94:C:C6	2.36	0.60
4:AD:131:ARG:H	4:AD:131:ARG:CD	2.15	0.60
11:AK:57:THR:HG23	11:AK:58:PRO:HD2	1.83	0.60
45:BK:125:ARG:C	45:BK:127:ILE:H	2.05	0.60
2:AB:100:GLY:H	2:AB:176:GLU:CD	2.04	0.60
35:DA:2729:G:H1'	39:DE:187:ALA:HB3	1.84	0.60
13:AM:24:GLY:C	13:AM:25:ILE:HD12	2.21	0.60
26:D1:29:GLY:O	26:D1:30:VAL:HG22	2.02	0.60
35:DA:1317:A:H2'	35:DA:1318:C:C6	2.36	0.60
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.00	0.60
1:CA:879:C:O2'	1:CA:880:C:H5'	2.02	0.60
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	2.01	0.60
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.34	0.60
37:DC:64:LEU:HG	37:DC:163:PHE:CB	2.32	0.60
35:BA:470:A:H5'	35:BA:470:A:H8	1.67	0.60
35:BA:2679:A:H4'	39:BE:165:VAL:HG11	1.84	0.60
1:AA:1004:A:O2'	1:AA:1038:C:H1'	2.01	0.60
24:CY:189:LEU:HD12	24:CY:204:SER:HB2	1.83	0.60
13:AM:4:ILE:HD13	13:AM:56:LEU:HD12	1.83	0.60
58:DZ:80:ARG:HH11	58:DZ:80:ARG:HG3	1.66	0.60
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.16	0.60
1:CA:965:A:C2	1:CA:969:A:C2	2.90	0.60
35:DA:481:G:OP2	57:DY:47:LYS:HG3	2.02	0.60
41:DG:51:ARG:HH21	41:DG:52:ILE:H	1.50	0.60
9:CI:79:LEU:HD11	9:CI:83:ARG:CZ	2.32	0.60
1:CA:9:G:H2'	1:CA:10:A:H8	1.66	0.60
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.83	0.60
35:BA:1077:A:OP1	58:BZ:112:ARG:HA	2.02	0.60
38:BD:25:THR:HG21	38:BD:81:ALA:CB	2.32	0.60
60:DI:77:LEU:CD1	60:DI:142:VAL:HA	2.31	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:66:ARG:HB2	9:CI:66:ARG:HH11	1.66	0.60
13:AM:117:VAL:HG12	13:AM:118:ALA:N	2.17	0.60
37:BC:77:ILE:O	37:BC:77:ILE:HG23	2.01	0.60
22:AW:39:U:H2'	22:AW:40:C:C5'	2.30	0.60
45:BK:36:GLU:HG2	45:BK:65:PHE:HZ	1.67	0.60
22:AV:20:U:H3'	22:AV:21:A:H5'	1.84	0.60
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.32	0.60
42:DH:157:TYR:HE1	42:DH:171:LEU:N	1.98	0.60
34:D9:35:ARG:HG2	34:D9:36:GLN:N	2.17	0.60
7:CG:148:ASN:C	7:CG:150:ALA:H	2.04	0.60
20:AT:13:LEU:HD12	20:AT:14:LYS:N	2.17	0.60
1:AA:472:A:H4'	16:AP:82:GLN:HE22	1.67	0.60
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.66	0.60
24:CY:145:GLU:C	24:CY:147:GLN:H	2.04	0.60
21:AU:12:LYS:HB3	21:AU:17:THR:O	2.02	0.60
2:AB:52:GLU:O	2:AB:56:ARG:HG3	2.02	0.60
17:CQ:76:LEU:HG	17:CQ:77:VAL:H	1.67	0.60
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.01	0.60
22:AV:42:C:H6	22:AV:42:C:H5'	1.67	0.60
26:D1:46:LEU:CD1	26:D1:61:ARG:HD3	2.31	0.60
9:AI:118:LYS:NZ	9:AI:118:LYS:HB3	2.17	0.60
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.37	0.60
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.82	0.60
13:CM:68:GLY:HA2	13:CM:71:ARG:HB3	1.83	0.60
52:BT:27:THR:HG22	52:BT:49:VAL:HB	1.83	0.60
28:D3:4:LEU:HD11	28:D3:39:ASP:OD1	2.02	0.60
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	2.02	0.60
41:DG:134:GLY:O	41:DG:135:LEU:HD12	2.02	0.60
54:DV:5:VAL:HG23	54:DV:37:VAL:HG23	1.83	0.60
31:B6:16:CYS:SG	31:B6:48:VAL:HG22	2.42	0.60
12:AL:38:THR:HG22	12:AL:39:VAL:HG23	1.84	0.60
9:AI:99:LEU:HB3	9:AI:101:PHE:CD1	2.37	0.60
35:DA:2801:A:H2'	35:DA:2801:A:N3	2.17	0.60
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.60
7:AG:136:LYS:C	7:AG:138:LYS:H	2.05	0.60
39:DE:77:ILE:HG22	39:DE:78:LEU:HD23	1.84	0.60
1:AA:674:G:H2'	1:AA:675:A:C8	2.37	0.60
7:AG:113:GLU:HG2	7:AG:119:ARG:HG2	1.84	0.60
1:AA:826:C:H4'	8:AH:12:ARG:HG3	1.82	0.60
22:AV:66:U:H2'	22:AV:67:C:C6	2.37	0.60
45:DK:112:MET:N	45:DK:113:PRO:HD2	2.17	0.60
35:BA:2481:G:HO2'	35:BA:2482:G:P	2.24	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:171:VAL:CG1	24:AY:176:ALA:HB1	2.31	0.60
35:DA:1562:A:H2'	35:DA:1563:G:H8	1.67	0.60
17:AQ:57:VAL:HG21	17:AQ:73:VAL:HG13	1.84	0.60
35:DA:626:U:H3	48:DP:105:LEU:CB	2.15	0.60
45:BK:112:MET:N	45:BK:113:PRO:HD2	2.17	0.60
39:DE:79:ARG:HH12	39:DE:195:LEU:HD21	1.67	0.60
1:CA:163:C:H2'	1:CA:164:U:C6	2.36	0.60
2:AB:135:GLN:O	2:AB:139:LYS:HB2	2.02	0.60
1:AA:40:C:H2'	1:AA:41:G:H8	1.66	0.60
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.66	0.60
42:DH:66:GLY:HA2	42:DH:69:ARG:HB3	1.83	0.60
35:DA:469:G:C2'	35:DA:470:A:H5''	2.31	0.60
42:BH:99:VAL:HG13	42:BH:99:VAL:O	2.02	0.60
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.01	0.60
35:BA:1464:C:H2'	35:BA:1465:G:H8	1.67	0.60
31:B6:11:LEU:N	31:B6:11:LEU:HD22	2.17	0.59
35:BA:545:C:H2'	35:BA:547:A:O4'	2.01	0.59
52:DT:27:THR:O	52:DT:28:VAL:CB	2.50	0.59
28:B3:2:PRO:O	28:B3:4:LEU:N	2.34	0.59
35:DA:535:C:O2'	35:DA:536:A:H5'	2.02	0.59
48:DP:148:LEU:HD13	48:DP:148:LEU:N	2.17	0.59
35:DA:1493:C:O2	35:DA:1493:C:H2'	2.01	0.59
42:BH:170:ARG:H	42:BH:170:ARG:HD2	1.66	0.59
9:CI:43:ALA:C	9:CI:45:ALA:H	2.04	0.59
1:CA:558:G:C3'	1:CA:559:A:H5''	2.26	0.59
5:AE:80:ILE:HG22	8:AH:104:ARG:HH21	1.67	0.59
35:DA:2334:G:H21	51:DS:18:ILE:HD11	1.66	0.59
52:BT:40:THR:O	52:BT:41:ARG:CB	2.50	0.59
35:DA:870:A:OP1	49:DQ:6:ARG:HG3	2.02	0.59
46:BN:120:LEU:O	46:BN:120:LEU:HD13	2.02	0.59
58:BZ:68:PRO:O	58:BZ:69:THR:HG23	2.01	0.59
51:DS:79:ALA:C	51:DS:80:LEU:HD12	2.22	0.59
25:D0:32:ARG:H	25:D0:35:ASN:HD22	1.46	0.59
58:BZ:82:ARG:HG3	58:BZ:83:PRO:HD2	1.83	0.59
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.31	0.59
19:AS:51:VAL:HG12	19:AS:52:TYR:O	2.01	0.59
22:AW:32:U:O2'	22:AW:33:U:H5'	2.02	0.59
24:AY:205:PHE:CZ	24:AY:307:TRP:HA	2.37	0.59
1:AA:637:G:H2'	1:AA:638:G:H8	1.66	0.59
1:CA:826:C:H4'	8:CH:12:ARG:HG3	1.82	0.59
10:AJ:3:LYS:HD3	10:AJ:77:PRO:HG3	1.84	0.59
8:CH:63:LEU:HB2	8:CH:65:TYR:HE1	1.66	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:63:LEU:H	8:CH:63:LEU:HD22	1.65	0.59
1:AA:1285:A:H1'	1:AA:1286:A:OP2	2.02	0.59
35:BA:1513:C:H2'	35:BA:1514:U:C6	2.36	0.59
1:AA:218:C:H5'	1:AA:470:C:N4	2.17	0.59
56:BX:66:LEU:HD23	56:BX:67:GLY:N	2.17	0.59
54:BV:2:PHE:O	54:BV:3:ALA:HB3	2.01	0.59
35:DA:1145:C:H2'	35:DA:1146:C:H6	1.67	0.59
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.32	0.59
17:AQ:91:ARG:NH1	17:AQ:91:ARG:HG2	2.17	0.59
24:CY:226:GLU:O	24:CY:254:LEU:N	2.35	0.59
35:BA:315:G:H2'	35:BA:316:C:C6	2.36	0.59
35:BA:144:C:O2'	35:BA:145:G:H5'	2.00	0.59
46:DN:96:GLU:OE2	46:DN:96:GLU:N	2.27	0.59
1:AA:522:C:H41	12:AL:53:ARG:NH2	2.00	0.59
35:DA:1490:A:H5'	35:DA:1491:G:OP1	2.02	0.59
35:BA:2734:A:H5'	35:BA:2735:G:OP2	2.02	0.59
57:DY:81:LYS:NZ	57:DY:97:ARG:HG3	2.17	0.59
13:CM:3:ARG:HD2	59:D4:60:GLU:CD	2.21	0.59
1:AA:1331:G:OP2	13:AM:23:TYR:HD2	1.85	0.59
45:BK:18:THR:H	45:BK:19:PRO:HD2	1.67	0.59
2:AB:19:HIS:ND1	2:AB:189:ASP:OD2	2.35	0.59
48:BP:148:LEU:N	48:BP:148:LEU:HD13	2.17	0.59
1:AA:9:G:H2'	1:AA:10:A:H8	1.66	0.59
31:B6:17:LYS:C	31:B6:17:LYS:HD3	2.23	0.59
17:CQ:52:LYS:H	17:CQ:52:LYS:CD	2.13	0.59
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.13	0.59
5:AE:8:GLU:HA	5:AE:33:VAL:O	2.02	0.59
34:D9:17:ILE:HD11	35:DA:2754:U:H1'	1.84	0.59
33:B8:23:VAL:CG1	33:B8:46:ARG:HB3	2.32	0.59
10:CJ:62:HIS:H	10:CJ:62:HIS:CD2	2.18	0.59
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.20	0.59
24:AY:250:ARG:HD3	24:AY:261:THR:HG22	1.83	0.59
26:B1:29:GLY:O	26:B1:31:GLY:N	2.25	0.59
1:AA:664:G:H22	1:AA:741:G:H1	1.49	0.59
35:BA:1796:U:H2'	35:BA:1797:C:C6	2.37	0.59
35:BA:1079:C:O2	45:BK:129:GLY:HA3	2.02	0.59
1:AA:718:G:H21	18:AR:49:LYS:NZ	2.00	0.59
1:AA:820:U:H4'	1:AA:821:G:OP2	2.02	0.59
3:CC:63:ASN:HA	3:CC:98:ASN:HB3	1.83	0.59
44:DJ:26:UNK:HA	44:DJ:84:UNK:HA	1.83	0.59
50:BR:72:ASP:HB3	50:BR:75:LEU:HB2	1.84	0.59
1:AA:341:C:H2'	1:AA:342:C:H6	1.68	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:DW:92:ARG:HG2	55:DW:92:ARG:HH11	1.66	0.59
50:DR:10:LEU:HB3	50:DR:17:ARG:NE	2.18	0.59
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.17	0.59
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.18	0.59
54:BV:46:VAL:HG13	54:BV:47:VAL:N	2.18	0.59
1:CA:1126:U:O2'	1:CA:1127:G:H5'	2.02	0.59
31:B6:37:ARG:O	31:B6:48:VAL:O	2.21	0.59
46:DN:133:GLN:O	46:DN:134:ARG:HB3	2.02	0.59
54:BV:6:LYS:HA	54:BV:11:GLN:HA	1.84	0.59
52:DT:40:THR:O	52:DT:41:ARG:CB	2.50	0.59
35:BA:2334:G:H21	51:BS:18:ILE:CD1	2.16	0.59
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	1.96	0.59
27:D2:10:LEU:HD21	27:D2:59:ARG:HD2	1.83	0.59
35:DA:1169:G:H1	35:DA:1180:C:N4	1.94	0.59
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.84	0.59
42:DH:97:ARG:HA	42:DH:125:VAL:HG11	1.84	0.59
38:BD:21:PHE:O	38:BD:24:ILE:HG22	2.02	0.59
35:BA:1169:G:H1	35:BA:1180:C:N4	1.97	0.59
22:CW:53:G:N3	22:CW:54:U:H5	2.00	0.59
34:D9:15:LYS:HZ3	35:DA:2753:A:H1'	1.68	0.59
46:BN:35:ARG:O	46:BN:42:TRP:CZ3	2.55	0.59
9:AI:14:VAL:O	9:AI:65:VAL:HG23	2.03	0.59
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.17	0.59
37:DC:77:ILE:HB	37:DC:121:GLY:O	2.01	0.59
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.84	0.59
12:CL:83:VAL:HG21	12:CL:100:ILE:HG23	1.84	0.59
25:D0:43:THR:O	25:D0:43:THR:HG23	2.02	0.59
35:BA:322:A:OP2	40:BF:169:ASN:HB2	2.03	0.59
38:DD:147:LEU:HD11	38:DD:183:ARG:NH1	2.18	0.59
13:AM:15:VAL:O	13:AM:19:LEU:HD23	2.01	0.59
36:DB:65:C:H2'	36:DB:109:C:N4	2.16	0.59
3:AC:64:VAL:O	3:AC:100:ALA:HB3	2.02	0.59
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.17	0.59
51:BS:36:TYR:HD1	51:BS:36:TYR:N	1.98	0.59
55:DW:1:MET:C	55:DW:64:MET:HE3	2.22	0.59
35:BA:1625:C:H2'	35:BA:1626:G:O4'	2.01	0.59
1:AA:828:A:H2'	1:AA:829:G:O4'	2.02	0.59
1:CA:848:C:H2'	1:CA:849:C:C6	2.38	0.59
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.01	0.59
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.37	0.59
41:DG:139:LEU:HD23	41:DG:139:LEU:H	1.67	0.59
1:CA:688:G:H2'	1:CA:689:C:H6	1.66	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1527:C:O2'	1:AA:1528:U:H5'	2.01	0.59
35:DA:1131:G:OP2	35:DA:2515:C:H4'	2.01	0.59
26:B1:86:SER:CB	26:B1:90:ILE:HG12	2.18	0.59
24:CY:16:TYR:HA	24:CY:55:LEU:CD1	2.23	0.59
41:BG:109:VAL:HG21	41:BG:142:PRO:HG3	1.85	0.59
41:BG:174:GLU:OE2	41:BG:180:PHE:HB2	2.02	0.59
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.66	0.59
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.28	0.59
35:DA:1504:C:C3'	35:DA:1505:C:H5''	2.32	0.59
46:BN:133:GLN:O	46:BN:134:ARG:HB3	2.02	0.59
27:B2:57:ILE:HG22	27:B2:61:LEU:CD2	2.31	0.59
59:D4:50:THR:HG22	59:D4:51:TYR:N	2.18	0.59
50:BR:2:ARG:NH1	50:BR:5:LYS:HZ1	2.00	0.59
8:CH:1:MET:HE1	8:CH:3:THR:HG23	1.84	0.59
19:AS:9:VAL:O	19:AS:11:VAL:N	2.35	0.59
52:BT:62:THR:CG2	52:BT:75:ILE:HG12	2.31	0.59
50:BR:11:ASN:CG	50:BR:12:ARG:H	2.03	0.59
1:AA:737:A:H2'	1:AA:738:C:C6	2.37	0.59
1:CA:735:C:O2'	1:CA:736:C:H5'	2.01	0.59
1:AA:1150:U:H4'	10:AJ:41:PRO:HG3	1.85	0.59
48:BP:125:VAL:HG11	48:BP:138:LEU:HD21	1.85	0.59
45:DK:125:ARG:C	45:DK:127:ILE:H	2.05	0.59
7:AG:154:TYR:O	7:AG:156:TRP:N	2.32	0.59
11:CK:115:PRO:C	11:CK:117:ASN:H	2.05	0.59
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.17	0.59
9:CI:128:ARG:OXT	9:CI:128:ARG:HG2	2.02	0.59
35:BA:324:A:O2'	35:BA:325:G:H5'	2.02	0.59
31:D6:22:ALA:HB2	31:D6:39:TYR:CE2	2.37	0.59
46:BN:89:LYS:O	46:BN:93:THR:HG22	2.01	0.59
1:AA:1396:A:C4'	1:AA:1398:A:H1'	2.31	0.59
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.02	0.59
35:BA:2689:U:H5''	35:BA:2690:C:H5'	1.83	0.59
1:CA:572:A:H5''	1:CA:917:G:H4'	1.85	0.59
55:BW:64:MET:O	55:BW:65:LEU:HB3	2.02	0.59
48:DP:50:ARG:HD3	48:DP:51:PHE:HB2	1.84	0.59
1:AA:356:A:H2	1:AA:357:G:H1'	1.67	0.59
42:BH:13:LYS:CA	42:BH:13:LYS:HE2	2.26	0.59
40:DF:10:PRO:HA	40:DF:128:ALA:HB2	1.83	0.59
40:DF:2:LYS:O	40:DF:24:LEU:HG	2.03	0.59
33:D8:2:PRO:HA	35:DA:591:C:O2	2.03	0.59
39:DE:132:HIS:CB	39:DE:135:HIS:NE2	2.61	0.59
53:DU:91:ASP:CG	53:DU:96:ALA:HB2	2.23	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.32	0.59
9:CI:99:LEU:HB3	9:CI:101:PHE:CD1	2.37	0.59
25:D0:14:ARG:CZ	25:D0:14:ARG:HB2	2.33	0.59
31:D6:13:CYS:O	31:D6:21:TYR:HA	2.01	0.59
57:DY:28:LYS:NZ	57:DY:28:LYS:N	2.42	0.59
32:D7:45:ALA:O	32:D7:46:VAL:HG23	2.02	0.59
1:CA:105:G:H2'	1:CA:106:C:C6	2.38	0.59
40:BF:65:TRP:HB3	40:BF:66:PRO:CD	2.32	0.59
27:B2:4:SER:HA	27:B2:7:ARG:HD3	1.85	0.59
58:BZ:61:LEU:HD23	58:BZ:65:GLN:O	2.03	0.59
58:BZ:61:LEU:HD22	58:BZ:61:LEU:N	2.17	0.59
35:DA:1349:A:N6	35:DA:1598:C:H42	2.01	0.59
2:AB:18:GLY:H	2:AB:42:ILE:CG2	2.11	0.59
12:CL:27:LEU:HG	12:CL:28:LYS:HG3	1.83	0.59
1:CA:360:A:H2'	1:CA:361:G:C8	2.38	0.59
48:BP:52:GLU:HA	48:BP:52:GLU:OE1	2.01	0.59
4:AD:108:LEU:O	4:AD:110:PHE:HD1	1.84	0.59
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.02	0.59
46:BN:40:PRO:O	53:BU:64:ARG:HG3	2.03	0.59
8:AH:10:LEU:HD13	8:AH:83:ILE:HD11	1.85	0.59
24:AY:177:TYR:CZ	24:AY:212:PRO:HD3	2.38	0.59
8:AH:11:THR:CG2	8:AH:15:ASN:HD21	2.13	0.59
1:CA:875:C:H1'	8:CH:15:ASN:OD1	2.02	0.59
1:AA:918:A:H2'	1:AA:919:A:H8	1.66	0.59
38:DD:235:GLY:C	38:DD:237:GLU:H	2.06	0.59
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.38	0.59
34:D9:27:CYS:SG	34:D9:29:ASN:ND2	2.76	0.59
45:DK:99:ILE:O	45:DK:139:VAL:HG23	2.02	0.59
13:CM:15:VAL:O	13:CM:19:LEU:HD23	2.01	0.59
40:DF:136:THR:HG23	40:DF:137:LYS:N	2.17	0.59
59:D4:48:ILE:HD12	59:D4:48:ILE:N	2.16	0.59
1:CA:337:C:H2'	1:CA:338:A:H8	1.68	0.59
1:AA:499:A:H4'	1:AA:500:G:OP1	2.02	0.59
35:DA:2340:G:O2'	35:DA:2341:G:H5'	2.03	0.59
35:BA:1531:C:H3'	35:BA:1532:C:H5'	1.84	0.59
35:BA:1001:A:H2'	35:BA:1002:G:O4'	2.02	0.59
35:BA:2039:C:O2'	35:BA:2040:C:H5'	2.03	0.59
40:BF:167:ALA:O	40:BF:170:LEU:HB2	2.01	0.59
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.03	0.59
9:AI:128:ARG:HG2	9:AI:128:ARG:OXT	2.02	0.59
41:DG:137:GLU:HG2	41:DG:152:LEU:HD21	1.84	0.59
7:CG:12:LEU:HD11	7:CG:25:ALA:HB2	1.85	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:38:LYS:HA	20:CT:41:ILE:HD11	1.83	0.59
35:BA:2758:A:C3'	35:BA:2759:G:H5''	2.33	0.59
33:B8:30:ARG:NE	35:BA:2419:U:O4	2.34	0.59
31:D6:27:LYS:HE3	35:DA:2285:C:C5	2.36	0.59
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.38	0.59
40:BF:3:GLU:HA	40:BF:24:LEU:CD2	2.33	0.59
35:DA:590:A:H2'	35:DA:591:C:C6	2.37	0.59
41:DG:85:GLY:C	41:DG:87:PRO:HD2	2.23	0.59
41:BG:39:ILE:CD1	41:BG:60:LEU:HD11	2.33	0.59
52:DT:80:SER:OG	52:DT:81:PRO:HD3	2.02	0.59
39:DE:132:HIS:ND1	39:DE:135:HIS:NE2	2.46	0.59
28:B3:3:ARG:CB	28:B3:36:VAL:HB	2.23	0.59
56:BX:12:VAL:H	56:BX:28:PHE:HA	1.68	0.59
52:BT:107:ASP:CG	52:BT:108:ARG:H	2.04	0.59
25:B0:51:VAL:CG2	25:B0:80:HIS:HA	2.28	0.59
35:BA:1528(A):A:C3'	35:BA:1529:G:H5''	2.32	0.59
35:BA:2801:A:N3	35:BA:2801:A:H2'	2.17	0.59
33:B8:10:ALA:HB2	33:B8:59:LYS:NZ	2.17	0.59
35:DA:654(K):C:H4'	35:DA:654(L):G:O5'	2.02	0.59
38:DD:25:THR:HG21	38:DD:81:ALA:CB	2.33	0.59
41:DG:159:VAL:O	41:DG:159:VAL:HG23	2.02	0.59
1:AA:1313:U:OP1	19:AS:6:LYS:HG3	2.01	0.59
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.37	0.59
25:D0:32:ARG:N	25:D0:35:ASN:HD22	2.00	0.59
58:BZ:117:LEU:H	58:BZ:117:LEU:CD2	2.14	0.59
4:AD:30:LYS:C	4:AD:32:ALA:N	2.55	0.59
26:B1:30:VAL:HA	35:BA:2395:C:O2'	2.02	0.59
40:BF:136:THR:HG23	40:BF:137:LYS:N	2.18	0.59
1:AA:501:C:H2'	1:AA:502:G:H8	1.67	0.59
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.01	0.59
1:CA:375:U:OP1	16:CP:69:THR:HG21	2.02	0.59
1:AA:1112:C:O2	3:AC:179:ARG:HG2	2.03	0.59
35:DA:2864:G:OP1	52:DT:119:LYS:HE2	2.02	0.59
1:AA:1065:U:H1'	1:AA:1066:C:OP2	2.00	0.59
1:AA:1493:A:C2'	1:AA:1494:G:H5''	2.33	0.59
1:CA:499:A:H4'	1:CA:500:G:OP1	2.02	0.59
35:BA:1805:U:O2	38:BD:50:THR:HB	2.01	0.59
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.02	0.59
43:BI:38:LEU:HD13	43:BI:39:ALA:H	1.67	0.59
35:BA:2844:G:H3'	35:BA:2845:G:H8	1.68	0.59
19:AS:41:VAL:O	19:AS:44:MET:SD	2.61	0.59
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.37	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.03	0.59
1:AA:965:A:C2	1:AA:969:A:C2	2.90	0.59
35:BA:1145:C:H2'	35:BA:1146:C:H6	1.68	0.59
5:AE:72:GLN:O	5:AE:73:ASN:CB	2.50	0.59
1:AA:66:G:H4'	1:AA:173:U:C5	2.38	0.59
35:BA:2193:G:H2'	35:BA:2194:G:H8	1.66	0.59
35:BA:590:A:H2'	35:BA:591:C:C6	2.37	0.59
41:BG:111:LEU:HB3	41:BG:117:PHE:CE2	2.37	0.59
40:DF:53:THR:HG22	40:DF:56:GLU:OE2	2.02	0.59
42:BH:90:LYS:O	42:BH:94:TYR:HB2	2.01	0.59
38:BD:244:ARG:HD2	38:BD:245:PRO:CB	2.33	0.59
35:BA:1174:A:H5''	35:BA:1175:U:C5'	2.33	0.59
25:B0:12:ASN:O	25:B0:14:ARG:N	2.36	0.59
22:AW:1:G:H2'	22:AW:1:G:N3	2.18	0.59
5:AE:132:ALA:O	5:AE:135:THR:HB	2.03	0.59
22:CW:24:G:O2'	22:CW:25:C:H5'	2.02	0.59
51:DS:26:LEU:HA	51:DS:39:ILE:HD13	1.84	0.59
54:BV:64:HIS:ND1	54:BV:92:THR:CG2	2.62	0.59
1:CA:59:A:H2'	1:CA:59:A:N3	2.16	0.59
19:AS:79:THR:O	19:AS:80:TYR:CB	2.50	0.59
3:CC:70:VAL:O	3:CC:106:VAL:HG23	2.03	0.59
1:AA:939:G:H5''	7:AG:102:ARG:CZ	2.32	0.59
1:CA:1319:A:OP2	19:CS:5:LEU:HD21	2.02	0.59
1:CA:370:C:C2'	1:CA:370:C:O2	2.50	0.59
3:AC:157:ILE:CD1	3:AC:166:GLU:HB2	2.32	0.59
10:AJ:16:LEU:C	10:AJ:18:ALA:H	2.06	0.59
1:CA:825:G:C1'	8:CH:2:LEU:HD21	2.33	0.59
35:DA:2262:U:H2'	35:DA:2263:C:H5''	1.84	0.59
8:CH:12:ARG:HH12	8:CH:27:PRO:HD3	1.67	0.59
35:DA:2617:C:C2'	35:DA:2618:G:H5'	2.33	0.59
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.18	0.59
36:BB:65:C:H2'	36:BB:109:C:N4	2.18	0.59
26:B1:71:TYR:OH	43:BI:27:ARG:HG2	2.03	0.59
1:CA:473:G:H2'	1:CA:474:G:C8	2.38	0.59
35:DA:1090:U:H2'	35:DA:1091:G:H8	1.67	0.59
15:CO:61:GLY:O	15:CO:65:ARG:HD3	2.02	0.59
38:BD:238:GLY:O	38:BD:239:ARG:O	2.21	0.59
38:BD:261:LYS:NZ	38:BD:261:LYS:HB2	2.18	0.59
35:DA:1651:G:OP1	50:DR:40:LYS:HE3	2.01	0.59
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.33	0.59
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.33	0.59
35:DA:1001:A:H2'	35:DA:1002:G:O4'	2.03	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BR:59:ASP:OD2	50:BR:59:ASP:N	2.36	0.59
40:DF:167:ALA:O	40:DF:170:LEU:HB2	2.01	0.59
1:AA:27:G:H2'	1:AA:28:G:H8	1.68	0.59
57:BY:81:LYS:NZ	57:BY:97:ARG:HG3	2.17	0.59
42:BH:35:VAL:O	42:BH:37:VAL:N	2.36	0.59
58:DZ:165:VAL:CG1	58:DZ:166:SER:H	2.11	0.59
58:BZ:150:LEU:HD13	58:BZ:150:LEU:H	1.67	0.59
40:DF:3:GLU:CG	40:DF:19:GLU:HB2	2.21	0.59
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.17	0.59
52:DT:28:VAL:HG22	52:DT:46:GLU:C	2.22	0.59
53:DU:57:PHE:O	53:DU:58:ARG:C	2.41	0.59
48:DP:147:LEU:HB2	48:DP:148:LEU:HD13	1.83	0.59
48:BP:132:LYS:O	48:BP:136:GLU:HG2	2.03	0.59
1:CA:1124:G:O2'	10:CJ:38:ILE:HG21	2.02	0.59
38:DD:243:GLY:O	38:DD:244:ARG:HB3	2.02	0.59
35:BA:2165:G:H2'	35:BA:2166:G:C8	2.38	0.59
51:BS:88:ASP:OD2	51:BS:89:ARG:N	2.35	0.59
35:BA:1528(A):A:H2'	35:BA:1529:G:C5'	2.29	0.59
27:B2:24:LEU:O	27:B2:28:LYS:HG2	2.03	0.59
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.03	0.59
50:BR:97:VAL:HG22	50:BR:114:VAL:HG22	1.83	0.59
54:BV:24:LYS:HA	54:BV:92:THR:CG2	2.33	0.59
52:DT:107:ASP:CG	52:DT:108:ARG:H	2.06	0.59
42:DH:28:GLY:HA3	42:DH:79:VAL:CG2	2.28	0.59
35:BA:654(L):G:H2'	35:BA:654(M):C:C1'	2.32	0.59
3:AC:90:GLU:O	3:AC:93:LYS:HB2	2.03	0.59
58:DZ:146:ILE:HG13	58:DZ:147:GLY:N	2.16	0.59
4:CD:119:GLN:HE21	4:CD:123:HIS:CD2	2.21	0.59
33:D8:23:VAL:CG1	33:D8:46:ARG:HB3	2.30	0.59
35:DA:284:U:H2'	35:DA:285:C:C6	2.38	0.59
1:AA:875:C:H1'	8:AH:15:ASN:OD1	2.02	0.59
35:DA:1437:C:H2'	35:DA:1438:U:C6	2.37	0.59
58:BZ:117:LEU:O	58:BZ:117:LEU:HG	2.03	0.59
2:CB:153:ARG:HG3	2:CB:154:LEU:N	2.17	0.59
22:AV:20:U:H2'	22:AV:21:A:H5'	1.84	0.59
35:BA:855:G:H2'	35:BA:856:C:C6	2.37	0.59
1:AA:79:G:N2	1:AA:91:C:H41	2.01	0.59
16:CP:82:GLN:NE2	16:CP:82:GLN:N	2.50	0.59
35:DA:1513:C:H2'	35:DA:1514:U:C6	2.37	0.59
53:DU:8:VAL:HG12	53:DU:9:VAL:N	2.15	0.59
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.01	0.59
53:BU:102:GLU:HG3	54:BV:2:PHE:CE1	2.38	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:27:G:H2'	1:AA:28:G:C8	2.38	0.59
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.38	0.59
35:DA:2178:C:H5''	37:DC:46:LYS:HG2	1.85	0.59
1:CA:840:C:H5''	1:CA:841:U:OP1	2.03	0.59
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.37	0.59
35:DA:1286:A:O2'	35:DA:1288:U:OP2	2.16	0.59
35:BA:1511:C:H2'	35:BA:1512:U:O4'	2.03	0.59
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.02	0.59
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.18	0.59
58:DZ:109:ALA:HB3	58:DZ:144:LEU:O	2.03	0.59
35:DA:2308:G:H21	41:DG:79:ASN:ND2	2.00	0.59
52:DT:82:LEU:O	52:DT:84:GLN:N	2.35	0.59
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.07	0.59
35:BA:574:C:N3	39:BE:145:LYS:HE2	2.17	0.59
35:DA:1177:A:H4'	35:DA:1178:C:C6	2.38	0.59
46:DN:120:LEU:HD13	46:DN:120:LEU:O	2.03	0.59
4:CD:138:TYR:HD2	4:CD:139:ARG:N	2.00	0.59
35:BA:1020:A:N1	35:BA:1141:U:H2'	2.18	0.59
38:BD:33:LEU:O	38:BD:36:PRO:HD3	2.03	0.59
24:CY:227:LEU:HA	24:CY:252:VAL:O	2.03	0.59
35:DA:1436:G:C3'	35:DA:1437:C:H5''	2.33	0.59
13:CM:117:VAL:HG12	13:CM:118:ALA:N	2.18	0.59
22:AW:36:A:H2'	22:AW:37:A:O4'	2.03	0.59
24:AY:192:PRO:HB3	24:AY:199:GLY:O	2.02	0.59
1:AA:1105:A:H2'	1:AA:1106:G:C8	2.36	0.59
35:BA:2577:A:H5''	35:BA:2578:G:H5'	1.85	0.59
38:BD:182:LEU:HB2	38:BD:271:ILE:O	2.02	0.59
10:CJ:4:ILE:HG12	10:CJ:100:THR:CG2	2.33	0.59
35:BA:2584:U:C2	35:BA:2585:U:H5	2.20	0.59
1:CA:1041:A:H2'	1:CA:1042:G:H8	1.67	0.59
1:CA:1004:A:O2'	1:CA:1038:C:H1'	2.03	0.59
35:DA:2483:C:H3'	35:DA:2484:G:H5''	1.85	0.59
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.68	0.59
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.67	0.59
41:DG:93:THR:O	41:DG:94:LEU:HD23	2.03	0.59
48:DP:107:LYS:O	48:DP:109:GLY:N	2.36	0.59
35:DA:2795:G:N3	35:DA:2795:G:H2'	2.16	0.59
54:DV:61:VAL:O	54:DV:61:VAL:HG22	2.03	0.59
35:BA:528:A:H2	35:BA:2043:C:C5'	2.16	0.59
35:BA:2196:C:O2'	35:BA:2197:U:H5'	2.01	0.59
58:DZ:104:PHE:HB3	58:DZ:141:VAL:HG11	1.85	0.59
33:D8:32:LEU:HD11	35:DA:2392:A:OP1	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DY:44:ILE:O	57:DY:62:GLU:HB3	2.02	0.59
1:AA:359:U:H2'	1:AA:360:A:C8	2.38	0.59
2:CB:19:HIS:ND1	2:CB:189:ASP:OD2	2.34	0.59
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.03	0.59
58:BZ:171:ILE:O	58:BZ:172:ALA:HB2	2.01	0.59
24:AY:25:ARG:C	24:AY:28:GLU:HB2	2.23	0.59
48:DP:132:LYS:O	48:DP:136:GLU:HG2	2.03	0.59
54:BV:39:LEU:HD12	54:BV:47:VAL:HG11	1.84	0.59
25:B0:49:LYS:H	25:B0:80:HIS:CB	2.16	0.59
33:B8:59:LYS:CD	48:BP:50:ARG:HG3	2.31	0.59
48:BP:50:ARG:HD3	48:BP:51:PHE:HB2	1.85	0.59
38:BD:25:THR:HG22	38:BD:82:ILE:O	2.03	0.59
35:BA:654(K):C:H4'	35:BA:654(L):G:O5'	2.03	0.59
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.02	0.59
35:DA:330:A:O2'	35:DA:331:A:H8	1.86	0.59
39:DE:49:LEU:N	39:DE:49:LEU:HD12	2.17	0.59
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.15	0.59
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.84	0.59
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.85	0.59
43:BI:75:LEU:HD23	43:BI:76:THR:N	2.18	0.59
38:DD:64:ILE:N	38:DD:64:ILE:HD12	2.17	0.59
35:BA:1437:C:H2'	35:BA:1438:U:C6	2.38	0.59
35:BA:2134:A:H2	35:BA:2159:G:H1'	1.68	0.59
2:AB:153:ARG:HG3	2:AB:154:LEU:N	2.16	0.59
1:CA:627:G:H2'	1:CA:628:G:H8	1.68	0.59
40:BF:134:GLY:HA3	40:BF:165:ARG:HD2	1.83	0.59
57:DY:30:VAL:HG12	57:DY:31:LEU:N	2.18	0.59
1:AA:1060:C:C5	3:AC:2:GLY:HA2	2.38	0.59
16:AP:75:ARG:C	16:AP:78:GLY:H	2.06	0.59
52:BT:118:ARG:H	52:BT:118:ARG:CD	2.15	0.59
35:BA:754:C:H2'	35:BA:755:C:H6	1.67	0.59
26:D1:44:PRO:HA	35:DA:396:G:O3'	2.03	0.59
6:CF:100:ASN:HD21	18:CR:23:LYS:HE3	1.68	0.59
12:CL:90:VAL:O	12:CL:91:LYS:HB3	2.02	0.59
35:DA:1464:C:HO2'	35:DA:1528:A:H8	1.50	0.59
6:AF:100:ASN:HD21	18:AR:23:LYS:HE3	1.68	0.59
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.03	0.59
22:CW:46:G:O2'	22:CW:47:U:H5''	2.03	0.59
11:AK:12:ARG:HG2	11:AK:13:GLN:N	2.18	0.59
37:DC:103:ILE:C	37:DC:105:ASP:H	2.04	0.59
1:CA:1330:U:H3'	1:CA:1331:G:O4'	2.02	0.58
1:AA:56:U:O2'	60:DI:82:ARG:NH2	2.36	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:B5:46:CYS:SG	30:B5:47:PRO:HD2	2.43	0.58
2:AB:178:ARG:HH22	2:AB:196:LEU:CA	2.03	0.58
50:DR:10:LEU:CD2	50:DR:17:ARG:HD2	2.32	0.58
31:D6:38:LYS:HD2	35:DA:2344:U:OP1	2.03	0.58
56:DX:27:THR:HB	56:DX:80:ILE:HG22	1.84	0.58
31:D6:36:LEU:HD13	31:D6:50:ARG:NH1	2.17	0.58
35:BA:1504:C:C3'	35:BA:1505:C:H5''	2.32	0.58
57:DY:28:LYS:N	57:DY:28:LYS:HE3	2.17	0.58
57:DY:7:VAL:HB	57:DY:8:LYS:HZ2	1.68	0.58
1:AA:106:C:H2'	1:AA:107:G:H8	1.68	0.58
1:CA:355:C:C2	1:CA:356:A:N7	2.71	0.58
49:DQ:109:VAL:HG13	49:DQ:113:GLN:OE1	2.03	0.58
35:BA:2892:A:H3'	35:BA:2893:G:C5'	2.33	0.58
4:AD:119:GLN:HE21	4:AD:123:HIS:CD2	2.21	0.58
3:AC:175:LEU:H	3:AC:175:LEU:HD12	1.68	0.58
35:DA:141:A:N3	35:DA:141:A:H2'	2.18	0.58
24:CY:205:PHE:CE2	24:CY:307:TRP:HA	2.38	0.58
1:CA:1320:C:C2	19:CS:72:GLY:HA3	2.38	0.58
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.41	0.58
58:BZ:128:VAL:HG23	58:BZ:160:GLY:O	2.03	0.58
12:AL:37:CYS:SG	12:AL:81:SER:HB2	2.43	0.58
26:B1:62:VAL:HG22	26:B1:63:ALA:H	1.67	0.58
28:D3:46:ASN:O	28:D3:50:VAL:HG22	2.03	0.58
1:CA:218:C:H5'	1:CA:470:C:N4	2.18	0.58
24:CY:332:ASP:HB2	24:CY:335:ASN:CB	2.32	0.58
24:CY:223:LYS:HB2	24:CY:226:GLU:CG	2.33	0.58
12:AL:90:VAL:O	12:AL:90:VAL:HG12	2.02	0.58
10:CJ:9:ARG:CZ	10:CJ:95:GLU:HG2	2.33	0.58
1:AA:977:A:O2'	1:AA:978:A:H5'	2.03	0.58
1:AA:353:A:H8	1:AA:353:A:H5'	1.68	0.58
48:BP:13:ASN:HD22	48:BP:13:ASN:N	2.00	0.58
35:BA:150:C:H2'	35:BA:151:C:H6	1.67	0.58
35:DA:613:G:C8	35:DA:613:G:H5'	2.37	0.58
40:BF:8:GLN:HB2	40:BF:125:LEU:O	2.03	0.58
28:D3:1:MET:SD	28:D3:38:GLU:HG3	2.43	0.58
48:DP:112:LEU:CD2	48:DP:114:ILE:HD12	2.33	0.58
54:BV:34:GLU:O	54:BV:36:PRO:HD3	2.03	0.58
24:AY:253:HIS:HE1	24:AY:255:PRO:HB2	1.68	0.58
35:BA:2174:C:H2'	35:BA:2175:C:O4'	2.03	0.58
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.17	0.58
35:BA:1082:U:H5'	45:BK:117:THR:CG2	2.32	0.58
24:CY:319:ASN:O	24:CY:320:TYR:HB3	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:285:C:C3'	35:DA:286:C:H5''	2.33	0.58
1:AA:416:G:OP1	35:DA:2153:G:O3'	2.20	0.58
25:D0:53:MET:HB3	25:D0:59:LEU:CD2	2.30	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:HD23	1.85	0.58
42:BH:54:ARG:NH1	42:BH:54:ARG:HG2	2.19	0.58
47:DO:64:ARG:O	47:DO:82:ASN:HA	2.03	0.58
2:AB:92:TYR:HE2	2:AB:151:GLY:HA3	1.68	0.58
3:AC:167:TRP:O	3:AC:168:ALA:CB	2.51	0.58
3:CC:178:LEU:O	3:CC:180:ALA:N	2.36	0.58
35:BA:2121:G:H2'	35:BA:2122:U:C5'	2.34	0.58
6:AF:14:LEU:HD22	6:AF:18:GLN:NE2	2.17	0.58
43:BI:29:TYR:CD1	43:BI:33:ARG:HD2	2.38	0.58
40:DF:134:GLY:HA3	40:DF:165:ARG:HD2	1.83	0.58
40:DF:116:ASP:O	40:DF:120:GLU:HG3	2.02	0.58
16:AP:71:ARG:HH11	16:AP:71:ARG:HB3	1.68	0.58
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.18	0.58
38:BD:158:ALA:HB3	38:BD:161:THR:HG21	1.84	0.58
42:BH:47:GLU:HB2	42:BH:51:ARG:HH21	1.68	0.58
58:BZ:45:ASP:O	58:BZ:49:ARG:HB2	2.02	0.58
48:BP:107:LYS:O	48:BP:109:GLY:N	2.36	0.58
16:CP:43:LYS:HG3	16:CP:48:TRP:CE3	2.37	0.58
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.37	0.58
49:BQ:33:GLY:HA2	49:BQ:105:GLU:HA	1.85	0.58
35:DA:2679:A:H4'	39:DE:165:VAL:HG11	1.85	0.58
55:DW:12:ILE:HB	55:DW:42:ARG:HH12	1.68	0.58
35:BA:943:U:OP2	48:BP:38:GLN:CD	2.41	0.58
40:DF:88:VAL:HG11	40:DF:91:GLY:HA3	1.84	0.58
1:CA:1010:G:N2	1:CA:1020:U:H1'	2.19	0.58
54:BV:61:VAL:HG22	54:BV:61:VAL:O	2.03	0.58
39:DE:66:HIS:C	39:DE:66:HIS:CD2	2.76	0.58
36:BB:97:G:C2'	36:BB:98:G:H5'	2.33	0.58
15:AO:62:GLN:O	15:AO:66:LEU:HD13	2.04	0.58
35:BA:1678:G:N2	35:BA:1989:G:H22	2.01	0.58
1:CA:1133:G:H2'	1:CA:1134:G:C8	2.38	0.58
26:D1:82:LEU:HD22	26:D1:90:ILE:HD12	1.84	0.58
22:AW:16:U:OP1	22:AW:17:C:H4'	2.02	0.58
41:BG:103:LEU:O	41:BG:106:LEU:HB3	2.04	0.58
60:DI:75:LEU:HD22	60:DI:141:LYS:CD	2.32	0.58
35:DA:2289:G:H1'	35:DA:2346:A:H2	1.67	0.58
50:BR:10:LEU:HB3	50:BR:17:ARG:NE	2.18	0.58
35:DA:1528(A):A:H2'	35:DA:1529:G:C5'	2.26	0.58
51:BS:89:ARG:HD2	51:BS:92:TYR:N	2.17	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1124:G:O2'	10:AJ:38:ILE:HG21	2.04	0.58
9:AI:43:ALA:C	9:AI:45:ALA:H	2.06	0.58
9:AI:17:VAL:CG1	9:AI:81:ILE:HD13	2.32	0.58
10:AJ:20:ALA:O	10:AJ:24:VAL:HG23	2.03	0.58
1:AA:254:G:O2'	1:AA:255:G:H5'	2.03	0.58
1:CA:106:C:H2'	1:CA:107:G:H8	1.66	0.58
1:AA:59:A:N3	1:AA:59:A:H2'	2.17	0.58
8:AH:1:MET:HE1	8:AH:3:THR:HG23	1.84	0.58
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.38	0.58
1:CA:1313:U:OP1	19:CS:6:LYS:HG3	2.03	0.58
1:CA:1150:U:H4'	10:CJ:41:PRO:HG3	1.84	0.58
1:CA:939:G:H5''	7:CG:102:ARG:CZ	2.33	0.58
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.68	0.58
3:AC:157:ILE:HD11	3:AC:166:GLU:N	2.18	0.58
35:BA:1436:G:C3'	35:BA:1437:C:H5''	2.33	0.58
10:AJ:48:THR:HG23	10:AJ:62:HIS:HB3	1.83	0.58
35:DA:2728:U:O2'	35:DA:2729:G:H5'	2.02	0.58
35:DA:1036:G:H2'	35:DA:1037:G:C8	2.37	0.58
8:AH:39:LEU:O	8:AH:44:PHE:HB2	2.04	0.58
1:CA:1112:C:O2	3:CC:179:ARG:HG2	2.03	0.58
22:CV:62:C:O2'	22:CV:63:G:H5''	2.03	0.58
35:DA:626:U:O2	48:DP:105:LEU:HB3	2.03	0.58
1:AA:272:C:H2'	1:AA:273:A:C8	2.38	0.58
24:CY:332:ASP:HB2	24:CY:335:ASN:HB2	1.86	0.58
35:DA:1607:C:H4'	35:DA:1608:A:O5'	2.03	0.58
7:CG:6:ARG:HH21	7:CG:94:ARG:HH22	1.51	0.58
1:CA:27:G:H2'	1:CA:28:G:H8	1.69	0.58
42:DH:103:LEU:HG	42:DH:104:GLU:H	1.68	0.58
35:DA:2039:C:O2'	35:DA:2040:C:H5'	2.03	0.58
58:DZ:167:PRO:O	58:DZ:168:GLU:HB2	2.03	0.58
31:B6:25:LYS:HD2	33:B8:34:TRP:CZ2	2.39	0.58
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.02	0.58
41:DG:41:GLN:OE1	41:DG:60:LEU:HD23	2.04	0.58
35:BA:1747:G:H2'	35:BA:1747(A):G:C8	2.38	0.58
35:BA:743:G:O2'	35:BA:744:G:H5'	2.03	0.58
54:DV:38:LEU:HD13	54:DV:55:ALA:HB1	1.85	0.58
35:DA:1577:C:H2'	35:DA:1578:U:C6	2.38	0.58
31:D6:37:ARG:HG2	31:D6:37:ARG:HH11	1.69	0.58
56:BX:55:ASN:HB2	56:BX:80:ILE:HG12	1.85	0.58
52:DT:102:ILE:O	52:DT:106:SER:HB3	2.04	0.58
19:AS:10:PHE:HZ	19:AS:70:LYS:HE2	1.69	0.58
39:DE:84:PHE:O	39:DE:86:PRO:HD3	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2892:A:H3'	35:DA:2893:G:C5'	2.33	0.58
24:CY:253:HIS:CD2	24:CY:283:LEU:HD11	2.39	0.58
35:DA:17:G:H4'	53:DU:25:TRP:CZ3	2.38	0.58
46:BN:56:ASN:CG	46:BN:126:PRO:HD3	2.24	0.58
4:CD:174:LEU:N	4:CD:186:LEU:HD12	2.19	0.58
58:DZ:15:PRO:CB	58:DZ:19:ARG:HH21	2.13	0.58
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.02	0.58
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.18	0.58
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.03	0.58
35:DA:795:C:H2'	35:DA:796:C:H6	1.68	0.58
1:CA:1237:C:C4'	1:CA:1334:G:H21	2.15	0.58
10:CJ:3:LYS:HD3	10:CJ:77:PRO:HG3	1.84	0.58
16:AP:82:GLN:NE2	16:AP:82:GLN:N	2.51	0.58
15:CO:3:ILE:H	15:CO:3:ILE:HD13	1.68	0.58
53:BU:69:CYS:HB3	53:BU:106:PHE:HZ	1.68	0.58
30:B5:6:VAL:HG13	30:B5:7:PRO:HD2	1.85	0.58
1:AA:922:G:N3	1:AA:1398:A:H2	2.01	0.58
1:AA:337:C:H2'	1:AA:338:A:H8	1.69	0.58
30:B5:55:ARG:O	30:B5:56:LYS:HB3	2.02	0.58
35:BA:2295:C:O2'	35:BA:2296:U:H5'	2.03	0.58
6:CF:33:TYR:HD1	6:CF:75:LEU:HB2	1.68	0.58
38:DD:238:GLY:O	38:DD:239:ARG:O	2.22	0.58
35:BA:1889:A:O2'	35:BA:2087:G:H5'	2.02	0.58
35:DA:2850:A:OP2	35:DA:2866:U:H5	1.86	0.58
49:DQ:60:ARG:HB3	49:DQ:60:ARG:NH1	2.18	0.58
1:AA:444:C:H2'	1:AA:445:G:H8	1.68	0.58
1:CA:977:A:O2'	1:CA:978:A:H5'	2.03	0.58
36:BB:7:G:H4'	51:BS:29:PHE:CD1	2.38	0.58
48:BP:24:GLY:HA3	48:BP:33:ARG:NH1	2.18	0.58
35:DA:2756:U:H4'	35:DA:2757:A:OP1	2.03	0.58
57:BY:44:ILE:O	57:BY:62:GLU:HB3	2.03	0.58
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.02	0.58
4:AD:31:CYS:C	4:AD:33:MET:N	2.56	0.58
41:BG:116:ASP:O	41:BG:117:PHE:HB2	2.04	0.58
41:BG:133:LEU:HG	41:BG:157:ILE:HG13	1.85	0.58
24:AY:31:ARG:HE	45:BK:20:ALA:HB2	1.68	0.58
24:AY:42:PRO:O	24:AY:45:ALA:HB3	2.03	0.58
57:BY:2:ARG:O	57:BY:4:LYS:N	2.36	0.58
56:DX:12:VAL:H	56:DX:28:PHE:HA	1.67	0.58
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.18	0.58
10:CJ:6:ILE:HG12	10:CJ:72:VAL:O	2.03	0.58
35:DA:1529:G:H21	35:DA:1530:C:H3'	1.67	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:108:ARG:HG3	52:BT:109:GLU:N	2.17	0.58
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.37	0.58
9:AI:99:LEU:HB3	9:AI:101:PHE:HE1	1.67	0.58
40:DF:65:TRP:HB3	40:DF:66:PRO:CD	2.34	0.58
22:AW:7:A:OP1	22:AW:8:U:H5	1.87	0.58
38:DD:25:THR:CG2	38:DD:81:ALA:HB1	2.33	0.58
49:BQ:109:VAL:HG13	49:BQ:113:GLN:OE1	2.04	0.58
20:CT:44:ALA:HB1	20:CT:88:VAL:HA	1.85	0.58
35:BA:1187:G:H5''	54:BV:81:TYR:HE2	1.67	0.58
35:DA:676:A:H8	35:DA:2069:G:N2	1.99	0.58
46:DN:35:ARG:O	46:DN:42:TRP:CZ3	2.57	0.58
58:BZ:80:ARG:O	58:BZ:82:ARG:N	2.37	0.58
35:DA:141:A:H8	35:DA:1408:C:O2'	1.86	0.58
47:BO:101:PRO:O	47:BO:102:VAL:HG13	2.03	0.58
24:CY:269:ILE:CD1	49:DQ:79:LEU:HD22	2.33	0.58
2:CB:100:GLY:H	2:CB:176:GLU:CD	2.04	0.58
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.36	0.58
8:AH:21:LYS:O	8:AH:63:LEU:HD23	2.04	0.58
52:DT:118:ARG:H	52:DT:118:ARG:CD	2.16	0.58
35:DA:755:C:H2'	35:DA:756:C:H6	1.69	0.58
43:BI:98:ALA:HA	43:BI:109:ILE:HD11	1.86	0.58
24:CY:159:GLY:N	24:CY:164:ILE:HA	2.19	0.58
25:D0:77:ARG:NH2	35:DA:857:C:H5'	2.19	0.58
45:DK:14:ALA:O	45:DK:45:THR:HG21	2.03	0.58
35:DA:2367:G:H2'	35:DA:2368:C:H6	1.67	0.58
22:AV:28:G:O2'	22:AV:29:G:H5'	2.03	0.58
35:DA:1079:C:O2	45:DK:129:GLY:HA3	2.03	0.58
45:BK:14:ALA:O	45:BK:45:THR:HG21	2.03	0.58
2:CB:52:GLU:O	2:CB:56:ARG:HG3	2.02	0.58
22:AW:57:G:C2'	22:AW:58:A:H5'	2.34	0.58
35:DA:2523:G:H8	35:DA:2523:G:H5'	1.69	0.58
35:BA:1790:C:H5''	35:BA:1791:A:OP1	2.02	0.58
1:CA:494:U:H2'	1:CA:495:A:H5'	1.84	0.58
47:BO:49:ARG:O	47:BO:50:GLY:O	2.22	0.58
35:DA:1952:A:C5	47:DO:22:ILE:HD12	2.38	0.58
11:CK:79:SER:HB2	11:CK:106:LYS:HD3	1.84	0.58
52:DT:113:LYS:O	52:DT:114:LEU:HD23	2.02	0.58
57:BY:84:ARG:HH12	57:BY:97:ARG:HE	1.51	0.58
27:D2:69:ARG:HH22	35:DA:111:A:H5''	1.68	0.58
24:AY:54:ARG:HH11	24:AY:54:ARG:HG2	1.69	0.58
4:AD:9:CYS:HA	4:AD:12:CYS:CB	2.33	0.58
41:BG:114:ILE:HG22	41:BG:116:ASP:N	2.07	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:30:LYS:C	4:CD:32:ALA:N	2.56	0.58
45:BK:21:PRO:HB2	45:BK:22:PRO:CD	2.28	0.58
54:DV:6:LYS:HA	54:DV:11:GLN:HA	1.86	0.58
26:D1:8:SER:CB	26:D1:66:HIS:CE1	2.85	0.58
42:BH:159:GLU:HG3	42:BH:160:LYS:N	2.18	0.58
24:CY:35:ASP:O	24:CY:37:SER:N	2.36	0.58
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.86	0.58
56:BX:27:THR:HB	56:BX:80:ILE:HG22	1.84	0.58
50:DR:2:ARG:CZ	50:DR:5:LYS:HZ2	2.16	0.58
10:CJ:16:LEU:C	10:CJ:18:ALA:H	2.06	0.58
4:AD:174:LEU:N	4:AD:186:LEU:HD12	2.19	0.58
27:B2:48:HIS:CD2	35:BA:96:G:H4'	2.39	0.58
35:BA:284:U:H2'	35:BA:285:C:C6	2.38	0.58
35:DA:2855:C:H2'	35:DA:2856:C:C6	2.36	0.58
35:BA:2051:A:OP2	35:BA:2051:A:H8	1.87	0.58
42:DH:54:ARG:HG2	42:DH:54:ARG:NH1	2.18	0.58
39:BE:23:VAL:HA	39:BE:184:VAL:O	2.03	0.58
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.18	0.58
45:DK:102:GLU:O	45:DK:106:GLU:HG3	2.03	0.58
1:AA:501:C:O2'	1:AA:502:G:H5'	2.04	0.58
10:AJ:78:ASN:HD22	10:AJ:81:THR:HG21	1.69	0.58
10:CJ:96:ILE:H	10:CJ:96:ILE:HD13	1.68	0.58
35:DA:754:C:H2'	35:DA:755:C:H6	1.68	0.58
35:BA:626:U:H3	48:BP:105:LEU:CB	2.16	0.58
6:CF:100:ASN:N	6:CF:100:ASN:HD22	2.01	0.58
24:CY:100:GLU:C	24:CY:104:GLN:HG2	2.24	0.58
24:CY:100:GLU:O	24:CY:104:GLN:HG2	2.04	0.58
56:DX:57:LEU:HD13	56:DX:78:LYS:O	2.03	0.58
5:AE:28:PHE:CD1	5:AE:28:PHE:N	2.72	0.58
1:CA:197:A:N6	1:CA:221:C:H5'	2.18	0.58
35:BA:852:G:O2'	35:BA:853:G:H5'	2.04	0.58
35:BA:1771:C:HO2'	35:BA:1786:A:H8	1.52	0.58
24:AY:274:LEU:O	24:AY:278:ILE:HD13	2.03	0.58
26:D1:90:ILE:O	26:D1:94:LEU:HB2	2.02	0.58
26:B1:58:ILE:HD11	26:B1:91:LYS:HB2	1.84	0.58
41:DG:161:THR:HG22	41:DG:163:ALA:N	2.18	0.58
41:DG:109:VAL:O	41:DG:113:ARG:HG3	2.03	0.58
2:CB:19:HIS:CD2	2:CB:20:GLU:H	2.21	0.58
28:D3:38:GLU:HG3	28:D3:39:ASP:H	1.69	0.58
28:D3:2:PRO:C	28:D3:4:LEU:N	2.51	0.58
40:DF:8:GLN:HB2	40:DF:125:LEU:O	2.02	0.58
42:DH:43:VAL:HG21	42:DH:52:VAL:HG22	1.85	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1174:A:H5''	35:DA:1175:U:C5'	2.33	0.58
42:DH:158:HIS:O	42:DH:159:GLU:CB	2.52	0.58
54:DV:24:LYS:HA	54:DV:92:THR:CG2	2.33	0.58
35:DA:1024:G:C3'	35:DA:1025:G:H5''	2.31	0.58
2:CB:18:GLY:H	2:CB:42:ILE:CG2	2.13	0.58
35:BA:662:G:P	48:BP:18:ARG:HD2	2.43	0.58
1:AA:1223:C:OP1	1:AA:1224:G:H3'	2.04	0.58
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.30	0.58
24:CY:139:MET:HE3	24:CY:341:LEU:HD21	1.84	0.58
39:BE:69:LYS:HE3	39:BE:90:THR:N	2.14	0.58
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.86	0.58
14:CN:22:THR:O	14:CN:23:ARG:CB	2.51	0.58
10:CJ:48:THR:HG23	10:CJ:62:HIS:HB3	1.86	0.58
35:BA:93:G:H2'	35:BA:94:C:C6	2.38	0.58
1:AA:972:C:O3'	10:AJ:57:LYS:CG	2.52	0.58
35:BA:2263:C:C6	35:BA:2263:C:H5'	2.38	0.58
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.19	0.58
11:AK:115:PRO:C	11:AK:117:ASN:H	2.07	0.58
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.33	0.58
35:DA:2263:C:C6	35:DA:2263:C:H5'	2.38	0.58
42:BH:41:MET:HG3	42:BH:54:ARG:HA	1.83	0.58
35:BA:320:A:H3'	40:BF:136:THR:HG21	1.85	0.58
1:AA:503:C:H2'	1:AA:504:C:C6	2.38	0.58
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.42	0.58
43:BI:78:THR:HG22	43:BI:143:SER:CB	2.33	0.58
8:CH:21:LYS:O	8:CH:63:LEU:HD23	2.04	0.58
35:DA:1473:G:O2'	35:DA:1474:C:H5'	2.04	0.58
24:CY:354:GLY:O	24:CY:355:ARG:HG2	2.04	0.58
38:DD:150:LYS:HA	38:DD:150:LYS:HE3	1.85	0.58
22:CW:71:G:H4'	35:DA:1851:U:H4'	1.86	0.58
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.67	0.58
52:DT:57:PHE:O	52:DT:59:THR:HG22	2.03	0.58
1:CA:160:A:H1'	1:CA:344:A:N7	2.18	0.58
42:BH:103:LEU:CG	42:BH:104:GLU:H	2.16	0.58
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.04	0.58
35:BA:74:A:H4'	35:BA:75:G:O5'	2.04	0.58
9:AI:32:ASP:HB3	9:AI:35:GLU:HB2	1.84	0.58
33:D8:59:LYS:CD	48:DP:50:ARG:HG3	2.31	0.58
22:AV:72:C:C3'	22:AV:73:A:H5''	2.34	0.58
33:D8:30:ARG:NE	35:DA:2419:U:O4	2.36	0.58
60:DI:122:GLU:HG2	60:DI:123:LEU:N	2.18	0.58
41:DG:128:ARG:HB3	41:DG:130:ASN:ND2	2.18	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:3:GLU:HA	40:DF:24:LEU:CD2	2.34	0.58
60:DI:75:LEU:HD22	60:DI:141:LYS:CG	2.34	0.58
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.84	0.58
53:DU:65:ILE:HG12	53:DU:96:ALA:HB3	1.86	0.58
1:AA:556:C:C2'	1:AA:557:G:H5'	2.34	0.58
9:CI:99:LEU:HB3	9:CI:101:PHE:HE1	1.67	0.58
42:DH:94:TYR:CZ	42:DH:160:LYS:HD2	2.38	0.58
31:B6:20:ASN:ND2	31:B6:21:TYR:N	2.46	0.58
53:BU:65:ILE:HG12	53:BU:96:ALA:HB3	1.85	0.58
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	2.03	0.58
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.02	0.58
35:DA:1020:A:N1	35:DA:1141:U:H2'	2.19	0.58
9:AI:43:ALA:O	9:AI:45:ALA:N	2.37	0.58
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.29	0.58
1:CA:619:U:C2	4:CD:135:LEU:HD21	2.39	0.58
38:BD:25:THR:CG2	38:BD:81:ALA:HB1	2.32	0.58
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.67	0.58
1:AA:1319:A:OP2	19:AS:5:LEU:HD21	2.03	0.58
39:BE:26:ILE:HG22	39:BE:27:LEU:H	1.68	0.58
35:BA:1722:A:H2	35:BA:1740:G:H2'	1.67	0.58
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.86	0.58
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	2.04	0.58
1:AA:436:C:H2'	1:AA:437:U:C6	2.38	0.58
35:BA:141:A:H2'	35:BA:141:A:N3	2.17	0.58
24:AY:140:TYR:HE1	24:AY:183:GLU:HG3	1.69	0.58
47:DO:98:VAL:CG1	47:DO:117:LEU:HB3	2.33	0.58
8:CH:30:ARG:CZ	8:CH:30:ARG:HB3	2.31	0.58
26:D1:12:PRO:HB3	26:D1:43:TYR:HD2	1.69	0.58
45:BK:102:GLU:O	45:BK:106:GLU:HG3	2.04	0.58
10:CJ:3:LYS:HB3	10:CJ:77:PRO:HD3	1.86	0.58
1:CA:472:A:H4'	16:CP:82:GLN:HE22	1.68	0.58
4:CD:76:ARG:NH1	4:CD:76:ARG:HG2	2.17	0.58
16:AP:71:ARG:NH1	16:AP:71:ARG:HB3	2.19	0.58
27:B2:16:LEU:O	27:B2:20:GLU:HB3	2.04	0.58
24:CY:128:GLU:HA	24:CY:195:PHE:HE2	1.69	0.58
22:CV:74:C:O2'	22:CV:75:C:H5''	2.03	0.58
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.39	0.58
1:CA:341:C:H2'	1:CA:342:C:H6	1.68	0.58
35:DA:2193:G:H2'	35:DA:2194:G:H8	1.69	0.58
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.85	0.58
20:CT:59:ALA:O	20:CT:63:ILE:HG13	2.04	0.58
1:AA:688:G:H2'	1:AA:689:C:H6	1.67	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:231:HIS:ND1	38:DD:232:PRO:HD2	2.19	0.58
35:BA:958:U:H5'	49:BQ:14:ARG:HD3	1.84	0.58
1:AA:149:A:H2'	1:AA:150:C:C6	2.39	0.58
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.04	0.58
26:B1:56:GLN:HA	26:B1:56:GLN:NE2	2.18	0.58
31:B6:34:LEU:O	31:B6:35:GLU:HB2	2.04	0.58
33:D8:32:LEU:HD11	35:DA:2391:G:H3'	1.86	0.58
52:BT:28:VAL:HG22	52:BT:46:GLU:C	2.24	0.58
55:BW:92:ARG:HH11	55:BW:92:ARG:HG2	1.67	0.58
33:D8:4:MET:HE1	35:DA:593:G:O4'	2.03	0.58
41:BG:39:ILE:HG22	41:BG:157:ILE:CG2	2.34	0.58
41:BG:82:LEU:O	41:BG:83:ARG:HB3	2.03	0.58
54:BV:47:VAL:HG13	54:BV:52:VAL:N	2.19	0.58
54:BV:38:LEU:HD13	54:BV:55:ALA:HB1	1.86	0.58
31:D6:18:ARG:CZ	31:D6:43:CYS:SG	2.91	0.58
24:AY:291:ARG:HH11	24:AY:295:LEU:HD11	1.67	0.58
1:CA:321:A:H61	1:CA:332:G:H1	1.51	0.58
24:AY:144:ALA:O	24:AY:149:PHE:HB2	2.04	0.58
24:AY:152:GLU:HB3	24:AY:170:LEU:HB3	1.85	0.58
42:BH:28:GLY:HA3	42:BH:79:VAL:CG2	2.29	0.58
20:AT:46:GLU:O	20:AT:46:GLU:HG2	2.04	0.58
3:CC:90:GLU:O	3:CC:93:LYS:HB2	2.03	0.58
1:CA:939:G:H1	1:CA:1344:C:H42	1.52	0.58
35:DA:2134:A:H2	35:DA:2159:G:H1'	1.68	0.58
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.03	0.58
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.02	0.58
22:AV:41:C:H2'	22:AV:41:C:O2	2.02	0.58
45:DK:36:GLU:HG2	45:DK:65:PHE:HZ	1.69	0.58
45:DK:57:ILE:HG13	45:DK:67:PHE:HB3	1.86	0.58
39:DE:134:ILE:H	39:DE:134:ILE:HD13	1.67	0.58
35:BA:1467:C:O2'	35:BA:1468:C:H5'	2.03	0.58
45:DK:111:LYS:C	45:DK:113:PRO:HD2	2.23	0.58
40:DF:133:ASN:O	40:DF:135:LYS:N	2.37	0.58
35:DA:2121:G:H2'	35:DA:2122:U:C5'	2.33	0.58
6:AF:74:ASP:HA	6:AF:77:ARG:HH12	1.69	0.58
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.39	0.58
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.39	0.58
53:DU:102:GLU:HG3	54:DV:2:PHE:HE1	1.69	0.58
54:DV:2:PHE:O	54:DV:3:ALA:HB3	2.03	0.58
55:BW:1:MET:C	55:BW:64:MET:HE3	2.23	0.58
7:AG:12:LEU:HD11	7:AG:25:ALA:HB2	1.84	0.58
9:AI:32:ASP:HB3	9:AI:35:GLU:CB	2.33	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:267:SER:O	24:CY:271:ASN:HB2	2.04	0.58
35:DA:1531:C:H3'	35:DA:1532:C:H5'	1.85	0.58
1:AA:601:C:H2'	1:AA:602:A:C8	2.38	0.58
1:CA:828:A:H2'	1:CA:829:G:O4'	2.04	0.58
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.02	0.58
35:BA:671:C:O2'	35:BA:672:C:H5'	2.03	0.58
35:BA:412:A:H2'	35:BA:413:C:H5'	1.86	0.58
52:BT:113:LYS:O	52:BT:114:LEU:HD23	2.03	0.58
24:CY:346:TRP:HA	24:CY:346:TRP:CE3	2.39	0.58
33:B8:33:ASN:CB	33:B8:36:LYS:HD2	2.33	0.58
33:D8:33:ASN:O	35:DA:2420:C:P	2.62	0.58
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.65	0.58
41:DG:61:ALA:HA	41:DG:64:THR:CG2	2.34	0.58
41:BG:12:TYR:HA	41:BG:16:ARG:CG	2.34	0.58
27:B2:67:LYS:C	27:B2:69:ARG:H	2.08	0.58
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.39	0.58
54:DV:39:LEU:HD12	54:DV:47:VAL:HG11	1.85	0.58
8:AH:107:LEU:HD23	8:AH:107:LEU:N	2.19	0.58
38:DD:244:ARG:HD2	38:DD:245:PRO:CB	2.33	0.58
24:AY:221:VAL:O	24:AY:222:LEU:HD22	2.04	0.58
57:DY:7:VAL:HB	57:DY:8:LYS:NZ	2.19	0.58
10:AJ:6:ILE:HG12	10:AJ:72:VAL:O	2.03	0.58
37:DC:36:LYS:HG3	37:DC:37:PHE:N	2.11	0.58
40:BF:63:LYS:NZ	40:BF:67:GLN:HB2	2.19	0.58
35:BA:661:C:C4'	48:BP:16:ARG:HD3	2.33	0.58
13:CM:27:LYS:CE	13:CM:31:LYS:HE3	2.31	0.58
10:CJ:89:ASP:C	10:CJ:90:LEU:HD12	2.24	0.58
1:AA:1313:U:OP2	19:AS:6:LYS:HB3	2.02	0.58
35:DA:74:A:H4'	35:DA:75:G:O5'	2.03	0.58
35:BA:2809:A:O2'	35:BA:2810:A:H5'	2.04	0.58
8:CH:107:LEU:HD23	8:CH:107:LEU:N	2.17	0.58
1:CA:555:C:H2'	1:CA:556:C:C6	2.32	0.58
35:DA:286:C:C2'	35:DA:287:C:C5'	2.82	0.58
60:DI:10:GLU:HG2	60:DI:11:ASN:N	2.19	0.58
3:CC:175:LEU:HD12	3:CC:175:LEU:H	1.69	0.58
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.34	0.58
1:CA:503:C:H2'	1:CA:504:C:C6	2.35	0.58
45:BK:33:ASN:HD21	45:BK:63:ARG:HD3	1.69	0.58
47:BO:64:ARG:O	47:BO:82:ASN:HA	2.04	0.58
12:AL:105:TYR:O	12:AL:107:ALA:N	2.37	0.58
38:BD:235:GLY:C	38:BD:237:GLU:H	2.07	0.58
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:150:C:H2'	35:DA:151:C:H6	1.67	0.58
45:BK:102:GLU:HG2	45:BK:103:GLN:H	1.69	0.58
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.04	0.58
35:BA:2667:C:H1'	42:BH:109:PHE:HD2	1.66	0.58
57:BY:95:LYS:HG2	57:BY:100:ALA:HA	1.85	0.58
41:DG:139:LEU:H	41:DG:139:LEU:CD2	2.16	0.58
1:CA:1142:G:C2'	1:CA:1143:G:H5'	2.34	0.58
35:DA:1794:U:H2'	35:DA:1795:C:C6	2.38	0.58
24:AY:83:GLU:O	24:AY:84:ARG:HD3	2.03	0.58
35:BA:1553:A:HO2'	35:BA:1554:A:H8	1.51	0.58
17:AQ:81:ARG:C	17:AQ:83:ASP:H	2.06	0.58
35:DA:1345:C:H2'	35:DA:1346:G:H8	1.69	0.58
49:DQ:32:TYR:OH	49:DQ:111:GLU:HB3	2.04	0.58
1:CA:1461:G:H2'	1:CA:1462:G:H8	1.69	0.58
20:AT:64:ASP:O	20:AT:67:ALA:HB3	2.03	0.58
55:BW:22:ASP:HA	55:BW:25:ARG:HH12	1.69	0.58
13:CM:24:GLY:C	13:CM:25:ILE:HD12	2.24	0.58
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.04	0.58
3:CC:172:ARG:HH11	3:CC:172:ARG:HB3	1.69	0.58
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.69	0.58
55:BW:60:ASN:C	55:BW:61:ASN:HD22	2.08	0.58
33:D8:33:ASN:O	35:DA:2420:C:OP2	2.21	0.57
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.19	0.57
24:AY:33:LEU:C	24:AY:36:PRO:HD3	2.24	0.57
38:BD:243:GLY:O	38:BD:244:ARG:HB3	2.03	0.57
56:DX:11:PRO:HB3	56:DX:92:LEU:HD21	1.86	0.57
9:CI:78:LYS:HZ3	9:CI:78:LYS:HB2	1.66	0.57
24:CY:35:ASP:C	24:CY:37:SER:H	2.07	0.57
38:DD:245:PRO:O	38:DD:246:PRO:C	2.42	0.57
56:BX:11:PRO:HB3	56:BX:92:LEU:HD21	1.86	0.57
8:CH:104:ARG:O	8:CH:105:ARG:HB2	2.03	0.57
32:D7:8:ASN:ND2	32:D7:11:LYS:H	2.01	0.57
1:CA:1223:C:OP1	1:CA:1224:G:H3'	2.04	0.57
1:AA:105:G:H2'	1:AA:106:C:C6	2.38	0.57
38:BD:92:ILE:HD13	38:BD:104:TYR:HD2	1.68	0.57
38:DD:71:ASP:HB2	38:DD:103:ARG:NH2	2.18	0.57
46:DN:56:ASN:CG	46:DN:126:PRO:HD3	2.24	0.57
1:CA:1070:U:O2'	1:CA:1071:C:H5'	2.04	0.57
1:AA:423:G:OP2	35:DA:2138:C:H5''	2.04	0.57
38:BD:64:ILE:HD12	38:BD:64:ILE:N	2.17	0.57
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.39	0.57
1:AA:409:G:C5'	4:AD:25:ARG:HB2	2.34	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:72:VAL:HG23	54:DV:72:VAL:O	2.03	0.57
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.03	0.57
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.19	0.57
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.35	0.57
35:DA:1050:A:C2	35:DA:1051:G:H1'	2.38	0.57
35:BA:1946:U:H2'	35:BA:1947:C:C6	2.38	0.57
1:AA:6:G:H4'	1:AA:298:A:H4'	1.85	0.57
24:CY:141:THR:HG23	24:CY:151:VAL:HG11	1.86	0.57
1:CA:274:A:O2'	1:CA:275:G:O4'	2.22	0.57
1:AA:160:A:H1'	1:AA:344:A:N7	2.19	0.57
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.03	0.57
55:BW:79:GLY:C	55:BW:100:THR:HG23	2.24	0.57
1:CA:243:A:H4'	1:CA:244:U:O5'	2.03	0.57
50:DR:61:HIS:O	50:DR:65:LEU:HD13	2.04	0.57
35:BA:908:C:O2'	35:BA:909:A:H5'	2.04	0.57
1:CA:1275:A:H2'	1:CA:1276:G:C8	2.39	0.57
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.18	0.57
1:AA:678:U:H2'	1:AA:679:C:C6	2.39	0.57
35:DA:2844:G:H3'	35:DA:2845:G:H8	1.69	0.57
17:CQ:81:ARG:C	17:CQ:83:ASP:H	2.07	0.57
56:BX:48:LYS:N	56:BX:48:LYS:HD2	2.19	0.57
52:BT:112:ARG:CZ	52:BT:112:ARG:HB3	2.33	0.57
31:B6:33:LYS:O	31:B6:34:LEU:HB2	2.04	0.57
40:BF:20:LEU:HD22	40:BF:203:GLN:OE1	2.04	0.57
24:CY:55:LEU:HD23	24:CY:58:THR:HB	1.85	0.57
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.03	0.57
54:DV:34:GLU:O	54:DV:36:PRO:HD3	2.04	0.57
35:BA:2334:G:C4	51:BS:15:ARG:NH1	2.72	0.57
57:DY:10:GLY:HA2	57:DY:27:VAL:CG1	2.34	0.57
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.18	0.57
35:DA:2127:G:O2'	35:DA:2173:A:H2	1.87	0.57
43:BI:133:HIS:ND1	43:BI:134:PRO:HD2	2.19	0.57
38:DD:95:LEU:HD13	38:DD:97:TYR:HE1	1.68	0.57
1:CA:1313:U:OP2	19:CS:6:LYS:HB3	2.04	0.57
5:CE:75:THR:HG23	5:CE:76:ILE:N	2.19	0.57
24:AY:177:TYR:CE1	24:AY:212:PRO:HD3	2.39	0.57
37:DC:77:ILE:HG23	37:DC:77:ILE:O	2.02	0.57
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.03	0.57
1:AA:627:G:H2'	1:AA:628:G:H8	1.67	0.57
35:DA:2512:C:H4'	39:DE:122:PHE:CE2	2.39	0.57
34:D9:27:CYS:HB3	34:D9:32:HIS:HB2	1.86	0.57
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.86	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:877:U:C2'	35:BA:878:A:H5''	2.34	0.57
35:BA:1188:U:H4'	54:BV:79:VAL:HG13	1.86	0.57
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.05	0.57
16:CP:82:GLN:HE21	16:CP:82:GLN:N	2.02	0.57
35:DA:2653:U:H2'	42:DH:110:SER:HB2	1.86	0.57
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.69	0.57
4:AD:76:ARG:NH1	4:AD:76:ARG:HG2	2.19	0.57
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.19	0.57
35:DA:2667:C:H1'	42:DH:109:PHE:HD2	1.68	0.57
35:DA:1508:A:N3	35:DA:1508:A:H2'	2.19	0.57
17:AQ:91:ARG:HH11	17:AQ:91:ARG:HG2	1.70	0.57
39:DE:108:SER:HB3	39:DE:165:VAL:HG21	1.84	0.57
2:CB:135:GLN:O	2:CB:139:LYS:HB2	2.03	0.57
55:BW:86:LEU:HD12	55:BW:86:LEU:C	2.25	0.57
35:DA:528:A:H2	35:DA:2043:C:C5'	2.17	0.57
1:AA:921:U:O2	5:AE:19:MET:HB2	2.04	0.57
7:CG:18:TYR:HD2	7:CG:59:LEU:HD22	1.68	0.57
11:CK:12:ARG:HG2	11:CK:13:GLN:N	2.19	0.57
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.86	0.57
20:CT:64:ASP:O	20:CT:67:ALA:HB3	2.03	0.57
8:CH:77:GLU:HG2	8:CH:78:GLN:N	2.18	0.57
52:DT:112:ARG:CZ	52:DT:112:ARG:HB3	2.33	0.57
4:AD:145:GLU:C	4:AD:146:ILE:HD12	2.24	0.57
35:DA:271(A):A:H2	35:DA:272(D):G:N3	2.02	0.57
26:D1:81:LYS:HE3	35:DA:271(G):C:O2'	2.03	0.57
33:B8:2:PRO:HA	35:BA:591:C:O2	2.04	0.57
33:B8:33:ASN:O	35:BA:2420:C:P	2.62	0.57
30:D5:45:VAL:HG22	30:D5:51:TYR:CE2	2.39	0.57
42:DH:35:VAL:O	42:DH:37:VAL:N	2.36	0.57
54:BV:38:LEU:O	54:BV:51:VAL:HG13	2.04	0.57
10:CJ:20:ALA:O	10:CJ:24:VAL:HG23	2.05	0.57
53:BU:90:VAL:CG1	53:BU:91:ASP:H	2.12	0.57
51:DS:89:ARG:HD2	51:DS:92:TYR:CA	2.35	0.57
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.04	0.57
48:DP:18:ARG:HB3	48:DP:18:ARG:CZ	2.34	0.57
22:AW:9:A:C5'	22:AW:46:G:H5'	2.34	0.57
58:DZ:9:TYR:HE2	58:DZ:35:ARG:NH1	2.02	0.57
39:DE:48:GLN:NE2	39:DE:78:LEU:CD1	2.68	0.57
42:DH:25:LYS:HD2	42:DH:32:GLU:OE2	2.04	0.57
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.04	0.57
35:DA:2692:C:H2'	35:DA:2693:A:H8	1.68	0.57
35:DA:2051:A:H8	35:DA:2051:A:OP2	1.88	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
60:DI:130:TYR:CD2	60:DI:132:PRO:HG3	2.39	0.57
10:CJ:8:LEU:HD22	10:CJ:96:ILE:HG22	1.86	0.57
1:AA:473:G:H2'	1:AA:474:G:C8	2.39	0.57
7:AG:145:ALA:C	7:AG:147:ALA:H	2.07	0.57
39:BE:137:HIS:CB	39:BE:138:PRO:HD2	2.35	0.57
4:CD:201:GLN:O	4:CD:204:ILE:HB	2.04	0.57
35:DA:1464:C:H2'	35:DA:1465:G:H8	1.69	0.57
6:AF:100:ASN:O	18:AR:28:GLU:HG2	2.04	0.57
22:AW:57:G:H2'	22:AW:58:A:H5'	1.86	0.57
44:DJ:52:UNK:HA	44:DJ:86:UNK:O	2.05	0.57
1:AA:1275:A:H2'	1:AA:1276:G:C8	2.39	0.57
5:CE:7:GLU:HB3	5:CE:112:LEU:HD13	1.87	0.57
1:CA:678:U:H2'	1:CA:679:C:C6	2.39	0.57
1:CA:1477:C:O2'	1:CA:1478:C:H5'	2.04	0.57
35:DA:2593:U:H2'	35:DA:2594:C:H6	1.68	0.57
12:AL:110:VAL:O	12:AL:122:THR:HG21	2.04	0.57
47:DO:69:ILE:N	47:DO:69:ILE:HD12	2.19	0.57
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.18	0.57
35:BA:171:G:H2'	35:BA:172:C:C6	2.39	0.57
35:DA:1688:U:H1'	35:DA:1701:A:C6	2.39	0.57
1:AA:1330:U:H3'	1:AA:1331:G:O4'	2.04	0.57
35:BA:925:C:C3'	35:BA:926:A:H5''	2.33	0.57
1:AA:56:U:H4'	60:DI:82:ARG:NH2	2.19	0.57
42:BH:17:VAL:HB	42:BH:45:VAL:HG13	1.86	0.57
24:AY:59:VAL:HA	24:AY:62:PHE:HB3	1.84	0.57
41:BG:51:ARG:CA	41:BG:51:ARG:HE	2.03	0.57
35:DA:534:U:O2'	53:DU:49:HIS:HD2	1.88	0.57
9:CI:7:THR:O	9:CI:79:LEU:HD12	2.05	0.57
46:DN:15:LEU:HB2	46:DN:134:ARG:HB2	1.86	0.57
53:BU:91:ASP:OD2	53:BU:96:ALA:N	2.38	0.57
9:AI:105:ASP:OD2	9:AI:107:ARG:HD3	2.05	0.57
57:DY:28:LYS:H	57:DY:28:LYS:CE	2.18	0.57
9:AI:85:LEU:O	9:AI:89:ASN:HB2	2.05	0.57
35:DA:2165:G:H2'	35:DA:2166:G:C8	2.39	0.57
27:D2:3:LEU:CD2	27:D2:7:ARG:HH21	2.17	0.57
1:AA:619:U:C2	4:AD:135:LEU:HD21	2.39	0.57
5:AE:33:VAL:HG11	5:AE:109:ILE:HA	1.86	0.57
60:DI:92:VAL:HB	60:DI:120:ILE:HG23	1.86	0.57
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.70	0.57
1:AA:194:C:H2'	1:AA:195:A:H5''	1.85	0.57
1:CA:194:C:H2'	1:CA:195:A:H5''	1.85	0.57
3:CC:157:ILE:CD1	3:CC:166:GLU:HB2	2.33	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:972:C:O3'	10:CJ:57:LYS:HG3	2.03	0.57
35:DA:1061:U:O4	45:DK:10:LEU:HA	2.03	0.57
35:DA:1467:C:O2'	35:DA:1468:C:H5'	2.04	0.57
53:DU:27:LEU:HD23	53:DU:27:LEU:H	1.70	0.57
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.70	0.57
1:AA:1237:C:C4'	1:AA:1334:G:H21	2.17	0.57
1:CA:1399:C:C2	1:CA:1502:A:N6	2.73	0.57
1:CA:272:C:H2'	1:CA:273:A:C8	2.38	0.57
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.33	0.57
48:BP:108:LYS:O	48:BP:109:GLY:O	2.22	0.57
44:DJ:130:UNK:C	44:DJ:132:UNK:N	2.67	0.57
54:DV:53:GLU:O	54:DV:54:GLY:C	2.42	0.57
38:DD:261:LYS:NZ	38:DD:261:LYS:HB2	2.20	0.57
35:BA:828:U:H3'	35:BA:828:U:O2	2.04	0.57
35:BA:2350:C:H2'	35:BA:2351:G:O4'	2.04	0.57
35:DA:828:U:H3'	35:DA:828:U:O2	2.04	0.57
2:AB:132:LYS:O	2:AB:136:VAL:HG23	2.04	0.57
39:BE:66:HIS:C	39:BE:66:HIS:CD2	2.76	0.57
48:DP:13:ASN:HD22	48:DP:13:ASN:N	2.01	0.57
47:BO:69:ILE:HD12	47:BO:69:ILE:N	2.19	0.57
35:DA:2720:U:O2	35:DA:2720:U:H2'	2.03	0.57
13:AM:79:LYS:O	13:AM:82:MET:HB3	2.05	0.57
35:DA:448:U:O4	35:DA:583:G:H1'	2.05	0.57
41:DG:174:GLU:O	41:DG:176:LEU:N	2.37	0.57
47:DO:23:ARG:HH11	47:DO:23:ARG:HG2	1.69	0.57
39:BE:132:HIS:CB	39:BE:135:HIS:NE2	2.62	0.57
2:AB:19:HIS:CD2	2:AB:20:GLU:H	2.22	0.57
57:BY:28:LYS:HB2	57:BY:38:ILE:N	2.19	0.57
35:DA:1173:G:C3'	35:DA:1174:A:H5'	2.26	0.57
42:DH:159:GLU:CG	42:DH:160:LYS:H	2.13	0.57
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.08	0.57
53:BU:57:PHE:O	53:BU:58:ARG:C	2.42	0.57
53:BU:88:ILE:C	53:BU:90:VAL:H	2.08	0.57
35:BA:483:A:N7	35:BA:497:A:H2	2.02	0.57
35:DA:1082:U:C5'	45:DK:117:THR:HG22	2.31	0.57
4:AD:108:LEU:O	4:AD:110:PHE:N	2.37	0.57
35:DA:2809:A:O2'	35:DA:2810:A:H5'	2.04	0.57
38:BD:131:LEU:HD12	38:BD:131:LEU:O	2.04	0.57
24:CY:258:ILE:O	24:CY:258:ILE:HD12	2.03	0.57
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.19	0.57
35:BA:285:C:C3'	35:BA:286:C:H5''	2.35	0.57
51:DS:59:LYS:HB2	51:DS:65:VAL:HG22	1.86	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:117:MET:CE	39:BE:124:GLY:HA3	2.35	0.57
1:CA:501:C:O2'	1:CA:502:G:H5'	2.03	0.57
49:DQ:12:GLN:HG2	49:DQ:73:PRO:HD2	1.86	0.57
11:CK:57:THR:HG22	11:CK:59:TYR:N	2.19	0.57
6:AF:61:LEU:HD23	6:AF:63:TYR:OH	2.04	0.57
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.05	0.57
40:BF:116:ASP:O	40:BF:120:GLU:HG3	2.03	0.57
35:BA:755:C:H2'	35:BA:756:C:H6	1.69	0.57
58:BZ:75:ASN:HD22	58:BZ:85:HIS:HB3	1.69	0.57
50:DR:72:ASP:HB3	50:DR:75:LEU:CB	2.35	0.57
35:BA:1288:U:C2	35:BA:1327:C:O2	2.57	0.57
41:DG:139:LEU:HD23	41:DG:139:LEU:N	2.19	0.57
1:CA:27:G:H2'	1:CA:28:G:C8	2.40	0.57
42:DH:103:LEU:CG	42:DH:104:GLU:H	2.16	0.57
26:B1:21:ARG:NH2	35:BA:2079:U:H5''	2.19	0.57
41:BG:70:VAL:HG12	41:BG:71:THR:N	2.18	0.57
1:AA:865:A:H5'	1:AA:1078:U:O4	2.05	0.57
44:BJ:52:UNK:HA	44:BJ:86:UNK:O	2.04	0.57
35:DA:289:A:H3'	35:DA:290:G:H8	1.70	0.57
27:B2:64:LEU:HD21	27:B2:68:ARG:HD2	1.86	0.57
35:BA:1762:A:O5'	35:BA:1762:A:H8	1.88	0.57
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.04	0.57
41:DG:17:PRO:HG2	41:DG:18:GLU:H	1.69	0.57
35:DA:1747:G:H2'	35:DA:1747(A):G:C8	2.39	0.57
57:DY:46:LYS:H	57:DY:62:GLU:CG	1.85	0.57
1:AA:360:A:H2'	1:AA:361:G:C8	2.40	0.57
35:DA:2759:G:H5'	35:DA:2759:G:C8	2.39	0.57
24:AY:68:ASP:OD1	24:AY:91:LEU:HD11	2.04	0.57
41:DG:83:ARG:HD3	41:DG:84:LYS:HG3	1.86	0.57
24:CY:22:LYS:HA	24:CY:25:ARG:HG3	1.87	0.57
41:BG:97:ASP:HA	41:BG:100:TRP:HD1	1.68	0.57
52:DT:23:ARG:HA	52:DT:52:ILE:HD11	1.86	0.57
35:DA:1496:A:C8	35:DA:1577:C:O2'	2.58	0.57
48:BP:112:LEU:HD22	48:BP:114:ILE:HD12	1.87	0.57
35:DA:271(P):C:H5'	60:DI:46:ALA:HB2	1.85	0.57
57:BY:4:LYS:HD2	57:BY:4:LYS:C	2.25	0.57
31:D6:19:ARG:CG	31:D6:20:ASN:N	2.66	0.57
31:D6:47:THR:HG22	31:D6:48:VAL:N	2.18	0.57
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.61	0.57
58:BZ:51:ALA:O	58:BZ:52:SER:HB3	2.04	0.57
35:BA:2127:G:H5'	37:BC:36:LYS:HG2	1.86	0.57
24:AY:149:PHE:CD1	24:AY:173:GLY:HA3	2.40	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:64:A:HO2'	22:AW:65:G:H8	1.53	0.57
56:BX:30:VAL:CG1	56:BX:31:HIS:H	2.14	0.57
40:DF:65:TRP:HZ3	40:DF:73:ALA:O	1.88	0.57
51:DS:101:LEU:O	51:DS:101:LEU:HD22	2.05	0.57
20:AT:45:GLN:CA	20:AT:91:LEU:HB3	2.34	0.57
5:AE:107:ARG:O	5:AE:109:ILE:N	2.38	0.57
46:DN:57:ALA:O	46:DN:58:ASP:C	2.43	0.57
24:AY:182:PRO:HB2	24:AY:325:ARG:HH12	1.69	0.57
60:DI:68:LEU:HD22	60:DI:107:ILE:CD1	2.35	0.57
53:BU:26:GLY:C	53:BU:28:ARG:H	2.06	0.57
7:CG:113:GLU:HG2	7:CG:119:ARG:HG2	1.85	0.57
39:BE:23:VAL:HG11	39:BE:173:VAL:HG11	1.87	0.57
22:AV:65:G:H2'	22:AV:66:U:H6	1.69	0.57
24:AY:171:VAL:HG12	24:AY:176:ALA:HB1	1.85	0.57
6:CF:94:GLN:OE1	18:CR:32:ARG:HD2	2.05	0.57
1:AA:862:C:H2'	1:AA:863:U:H5'	1.86	0.57
1:CA:458:C:H2'	1:CA:460:G:C8	2.39	0.57
24:CY:150:GLN:HB3	24:CY:172:LYS:HD2	1.87	0.57
9:CI:118:LYS:HB3	9:CI:118:LYS:NZ	2.19	0.57
50:BR:72:ASP:HB3	50:BR:75:LEU:CB	2.35	0.57
12:CL:90:VAL:O	12:CL:90:VAL:HG12	2.03	0.57
35:DA:1783:A:C2	35:DA:2587:A:C5	2.93	0.57
56:BX:57:LEU:HD13	56:BX:78:LYS:O	2.05	0.57
35:BA:2850:A:OP2	35:BA:2866:U:H5	1.87	0.57
1:AA:775:G:O2'	1:AA:776:G:H5'	2.03	0.57
1:AA:778:G:O2'	1:AA:779:C:H5'	2.04	0.57
35:DA:1553:A:HO2'	35:DA:1554:A:H8	1.52	0.57
1:AA:235:C:H2'	1:AA:236:G:H8	1.70	0.57
35:DA:473:G:P	35:DA:508:G:H22	2.28	0.57
30:D5:55:ARG:O	30:D5:56:LYS:HB3	2.02	0.57
1:AA:375:U:OP1	16:AP:69:THR:HG21	2.03	0.57
35:DA:589:C:H2'	35:DA:590:A:H8	1.69	0.57
54:DV:38:LEU:O	54:DV:51:VAL:HG13	2.04	0.57
35:DA:1576:U:H2'	35:DA:1577:C:C6	2.39	0.57
57:BY:26:LYS:HG2	57:BY:27:VAL:HG23	1.86	0.57
35:DA:807:U:O2'	35:DA:808:G:H5'	2.04	0.57
24:AY:288:ARG:HA	24:AY:291:ARG:HB2	1.86	0.57
27:D2:2:LYS:HB2	27:D2:2:LYS:HZ2	1.70	0.57
26:B1:46:LEU:HD21	26:B1:61:ARG:NH1	2.18	0.57
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.03	0.57
4:CD:108:LEU:O	4:CD:110:PHE:N	2.37	0.57
8:CH:4:ASP:OD1	8:CH:7:ALA:N	2.36	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:41:VAL:O	5:CE:66:MET:HA	2.05	0.57
60:DI:101:LEU:C	60:DI:103:ARG:H	2.08	0.57
55:BW:29:LEU:HD21	55:BW:33:ARG:NH2	2.17	0.57
46:BN:23:LEU:CD1	46:BN:98:VAL:HG12	2.35	0.57
42:DH:33:LEU:HD12	42:DH:78:GLY:HA3	1.85	0.57
40:BF:102:PRO:HB2	40:BF:105:VAL:CG2	2.35	0.57
1:AA:834:C:H2'	1:AA:835:U:H6	1.69	0.57
1:CA:79:G:C1'	1:CA:80:G:H8	2.17	0.57
8:AH:73:ASP:OD2	8:AH:75:ARG:HD3	2.05	0.57
16:AP:82:GLN:N	16:AP:82:GLN:HE21	2.02	0.57
1:AA:7:G:H5'	1:AA:298:A:H5'	1.86	0.57
36:BB:56:G:O2'	36:BB:57:A:OP2	2.23	0.57
1:CA:1134:G:H2'	1:CA:1135:U:H5'	1.87	0.57
1:CA:895:G:H2'	1:CA:896:C:C6	2.40	0.57
54:BV:53:GLU:O	54:BV:54:GLY:C	2.43	0.57
47:DO:49:ARG:O	47:DO:50:GLY:O	2.22	0.57
1:AA:848:C:H2'	1:AA:849:C:C6	2.39	0.57
36:BB:4:C:H2'	36:BB:5:C:H6	1.70	0.57
34:D9:22:ARG:HH12	35:DA:2741:A:H5''	1.69	0.57
1:AA:1048:G:H5''	14:AN:2:ALA:N	2.19	0.57
35:DA:2029:G:H2'	35:DA:2031:A:OP1	2.03	0.57
35:BA:1688:U:H1'	35:BA:1701:A:C6	2.40	0.57
35:BA:708:C:H5'	35:BA:709:U:OP2	2.04	0.57
35:BA:1161:C:H1'	54:BV:8:GLY:O	2.05	0.57
57:DY:97:ARG:CZ	57:DY:98:VAL:HG23	2.33	0.57
52:BT:23:ARG:HA	52:BT:52:ILE:HD11	1.87	0.57
35:DA:2758:A:C3'	35:DA:2759:G:H5''	2.34	0.57
42:DH:35:VAL:CG1	42:DH:71:LEU:HD22	2.35	0.57
41:DG:76:SER:HB2	41:DG:84:LYS:H	1.68	0.57
2:AB:35:GLU:HG3	2:AB:39:ILE:O	2.04	0.57
42:BH:158:HIS:O	42:BH:159:GLU:CB	2.52	0.57
57:BY:28:LYS:NZ	57:BY:28:LYS:N	2.45	0.57
35:DA:2334:G:C4	51:DS:15:ARG:NH1	2.72	0.57
35:BA:2123:G:H2'	35:BA:2124:G:H8	1.68	0.57
32:B7:45:ALA:O	32:B7:46:VAL:HG23	2.05	0.57
35:BA:143:G:H4'	56:BX:35:THR:HG21	1.86	0.57
20:CT:46:GLU:HG2	20:CT:46:GLU:O	2.04	0.57
39:DE:69:LYS:HE3	39:DE:90:THR:N	2.15	0.57
24:CY:26:LEU:HD22	24:CY:48:VAL:HG21	1.86	0.57
48:DP:95:VAL:HB	48:DP:100:LEU:HD21	1.86	0.57
35:BA:1061:U:O4	45:BK:10:LEU:HA	2.04	0.57
35:BA:2262:U:H2'	35:BA:2263:C:H5''	1.84	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:118:A:H5'	35:BA:119:A:C8	2.36	0.57
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.35	0.57
24:AY:188:ARG:HD3	24:AY:310:GLN:HG2	1.86	0.57
1:CA:674:G:H2'	1:CA:675:A:C8	2.40	0.57
35:BA:320:A:H3'	40:BF:136:THR:CG2	2.34	0.57
39:DE:117:MET:CE	39:DE:124:GLY:HA3	2.35	0.57
42:BH:25:LYS:HD2	42:BH:32:GLU:OE2	2.05	0.57
13:AM:90:LEU:C	13:AM:92:HIS:N	2.58	0.57
22:AV:65:G:H2'	22:AV:66:U:C6	2.40	0.57
10:CJ:78:ASN:HD22	10:CJ:81:THR:HG21	1.70	0.57
38:DD:271:ILE:O	38:DD:272:ALA:CB	2.53	0.57
8:CH:101:PRO:HG2	8:CH:133:LEU:HD11	1.87	0.57
3:AC:178:LEU:O	3:AC:180:ALA:N	2.38	0.57
35:BA:2653:U:H2'	42:BH:110:SER:HB2	1.86	0.57
2:CB:72:GLY:HA2	2:CB:165:VAL:CG2	2.33	0.57
35:BA:626:U:O2	48:BP:105:LEU:HB3	2.05	0.57
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.84	0.57
38:DD:158:ALA:HB3	38:DD:161:THR:HG21	1.86	0.57
35:BA:528:A:C2	35:BA:2042:A:H2'	2.39	0.57
8:CH:77:GLU:HG2	8:CH:78:GLN:H	1.70	0.57
35:DA:1678:G:N2	35:DA:1989:G:H22	2.03	0.57
35:DA:171:G:H2'	35:DA:172:C:C6	2.39	0.57
35:BA:1192:G:O2'	35:BA:1193:G:H5'	2.05	0.57
35:BA:191:A:O2'	35:BA:192:C:H5'	2.05	0.57
35:BA:654(U):A:O2'	35:BA:654(V):A:H5'	2.04	0.57
1:CA:718:G:H21	18:CR:49:LYS:NZ	2.03	0.57
12:AL:34:ARG:O	12:AL:61:THR:HG23	2.05	0.57
1:CA:577:G:H2'	1:CA:578:C:H6	1.70	0.57
35:BA:2523:G:H5'	35:BA:2523:G:H8	1.68	0.57
56:DX:48:LYS:HD2	56:DX:48:LYS:N	2.19	0.57
35:DA:2403:C:H42	35:DA:2414:G:H1	1.51	0.57
35:BA:135:G:O2'	35:BA:136:G:H5'	2.05	0.57
3:CC:62:ASP:HA	3:CC:97:LYS:NZ	2.20	0.57
38:BD:121:PRO:HB3	38:BD:135:PHE:CE2	2.40	0.57
42:BH:35:VAL:CG1	42:BH:71:LEU:HD22	2.35	0.57
58:DZ:152:ALA:HB2	58:DZ:168:GLU:HA	1.85	0.57
40:DF:3:GLU:HB2	40:DF:24:LEU:HD23	1.85	0.57
1:AA:543:C:O2'	1:AA:544:G:H5'	2.04	0.57
25:B0:53:MET:HB3	25:B0:59:LEU:CD2	2.32	0.57
41:BG:82:LEU:HD23	41:BG:83:ARG:N	2.19	0.57
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.27	0.57
38:BD:245:PRO:O	38:BD:246:PRO:C	2.43	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:B6:18:ARG:CZ	31:B6:43:CYS:SG	2.93	0.57
53:BU:57:PHE:C	53:BU:59:ARG:N	2.57	0.57
4:AD:133:VAL:HG11	4:AD:138:TYR:CD1	2.25	0.57
12:AL:47:LYS:CG	12:AL:48:PRO:HD3	2.33	0.57
5:AE:101:ILE:H	5:AE:101:ILE:CD1	2.16	0.57
22:AW:19:G:H4'	22:AW:20:U:OP2	2.04	0.57
38:DD:35:LYS:HZ3	38:DD:103:ARG:HA	1.68	0.57
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.03	0.57
1:AA:370:C:C2'	1:AA:370:C:O2	2.52	0.57
20:CT:45:GLN:CA	20:CT:91:LEU:HB3	2.34	0.57
1:CA:555:C:OP1	12:CL:20:LYS:HD2	2.04	0.57
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.39	0.57
50:BR:24:GLN:HB3	50:BR:44:LEU:CD2	2.34	0.57
35:DA:1469:A:O2'	35:DA:1470:G:H5'	2.04	0.57
42:BH:40:GLU:O	42:BH:41:MET:HB2	2.04	0.57
40:DF:102:PRO:HB2	40:DF:105:VAL:CG2	2.34	0.57
1:CA:636:U:C5'	17:CQ:2:PRO:HG3	2.35	0.57
1:AA:1060:C:O4'	10:AJ:52:GLY:HA2	2.05	0.57
35:BA:70:G:H21	35:BA:71:A:H62	1.50	0.57
35:DA:1188:U:H4'	54:DV:79:VAL:HG13	1.87	0.57
20:AT:14:LYS:O	20:AT:18:GLN:HG3	2.05	0.57
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.39	0.57
1:AA:862:C:O2'	1:AA:863:U:H5'	2.05	0.57
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.70	0.57
12:AL:53:ARG:HB3	12:AL:93:LEU:HD11	1.86	0.57
19:AS:41:VAL:HB	19:AS:44:MET:SD	2.44	0.57
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.40	0.57
22:CW:68:C:H2'	22:CW:69:G:H8	1.70	0.57
35:DA:1056:G:H5''	35:DA:1057:A:H5'	1.85	0.57
35:DA:708:C:H5'	35:DA:709:U:OP2	2.05	0.57
35:BA:1754:C:OP1	52:BT:96:ARG:NH1	2.38	0.57
1:CA:952:U:H2'	1:CA:953:G:H8	1.70	0.57
35:DA:1227:G:P	53:DU:13:LYS:HZ3	2.27	0.57
17:CQ:91:ARG:NH1	17:CQ:91:ARG:HG2	2.20	0.57
35:BA:1644:C:O2	35:BA:1644:C:H2'	2.03	0.57
24:CY:87:LEU:O	24:CY:87:LEU:HD23	2.05	0.57
31:B6:28:ARG:CA	31:B6:32:ASN:HD22	2.08	0.57
52:BT:31:SER:OG	52:BT:43:GLN:N	2.38	0.57
2:CB:181:PHE:CE1	8:CH:70:GLN:HB3	2.39	0.57
40:BF:25:PRO:HG3	40:BF:119:ARG:CB	2.35	0.57
57:BY:60:PHE:HA	57:BY:62:GLU:CD	2.24	0.57
30:B5:35:GLU:HB2	30:B5:49:CYS:HB2	1.85	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:65:LEU:CD1	24:AY:98:LEU:HD22	2.35	0.57
16:CP:71:ARG:NH1	16:CP:71:ARG:HB3	2.20	0.57
16:CP:71:ARG:HH11	16:CP:71:ARG:HB3	1.70	0.57
58:BZ:104:PHE:O	58:BZ:105:VAL:HG12	2.04	0.57
28:B3:2:PRO:HG2	28:B3:4:LEU:HG	1.86	0.57
48:DP:62:LEU:H	48:DP:62:LEU:HD22	1.70	0.57
2:AB:80:ILE:HD11	2:AB:211:ILE:HB	1.87	0.57
20:CT:57:ARG:NH1	20:CT:102:GLY:HA2	2.20	0.57
38:BD:95:LEU:HD13	38:BD:97:TYR:HE1	1.70	0.57
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.30	0.57
35:DA:34:C:HO2'	35:DA:35:G:H5'	1.70	0.57
53:DU:26:GLY:C	53:DU:28:ARG:H	2.08	0.57
22:CV:71:G:O2'	22:CV:72:C:H5''	2.04	0.57
5:CE:33:VAL:HG11	5:CE:109:ILE:HA	1.86	0.57
3:CC:157:ILE:HD11	3:CC:166:GLU:N	2.20	0.57
1:AA:423:G:H2'	1:AA:424:G:C5'	2.35	0.57
10:AJ:48:THR:HG23	10:AJ:62:HIS:CB	2.34	0.57
39:BE:24:THR:HB	39:BE:186:GLY:HA2	1.87	0.57
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.35	0.57
35:BA:2144:U:HO2'	35:BA:2147:G:H1	1.53	0.57
8:CH:39:LEU:O	8:CH:44:PHE:HB2	2.04	0.57
45:BK:99:ILE:O	45:BK:139:VAL:HG23	2.03	0.57
8:CH:20:TYR:CE2	8:CH:75:ARG:HB3	2.40	0.57
2:CB:67:THR:HG21	2:CB:155:LEU:HG	1.87	0.57
35:DA:1946:U:H2'	35:DA:1947:C:C6	2.40	0.57
1:CA:1203:C:O2'	1:CA:1204:A:H5'	2.05	0.57
35:BA:1087:G:H1	35:BA:1102:C:H42	1.52	0.57
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.69	0.57
60:DI:125:GLU:HA	60:DI:143:SER:HA	1.87	0.57
44:DJ:102:UNK:HA	44:DJ:106:UNK:CB	2.35	0.57
35:BA:1056:G:H5''	35:BA:1057:A:H5'	1.86	0.57
46:DN:89:LYS:O	46:DN:93:THR:HG22	2.04	0.57
1:AA:880:C:O2'	1:AA:881:G:H5'	2.04	0.57
38:DD:40:THR:HG22	38:DD:41:GLY:N	2.20	0.57
35:BA:1345:C:H2'	35:BA:1346:G:H8	1.69	0.57
41:DG:11:TYR:HA	41:DG:15:VAL:HB	1.87	0.56
45:DK:93:ARG:N	58:DZ:112:ARG:NH2	2.48	0.56
35:DA:997:G:OP1	53:DU:93:LYS:HD3	2.05	0.56
53:DU:92:ARG:CD	54:DV:11:GLN:HG2	2.34	0.56
35:DA:1578:U:H2'	35:DA:1579:A:H5'	1.87	0.56
50:BR:10:LEU:CD2	50:BR:17:ARG:HD2	2.35	0.56
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.27	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:B0:12:ASN:C	25:B0:14:ARG:H	2.08	0.56
24:CY:32:ARG:HH11	24:CY:32:ARG:HG3	1.69	0.56
51:DS:88:ASP:OD2	51:DS:89:ARG:N	2.38	0.56
42:BH:126:PRO:O	42:BH:127:GLU:CB	2.53	0.56
38:BD:35:LYS:HZ3	38:BD:103:ARG:HA	1.69	0.56
38:BD:71:ASP:HB2	38:BD:103:ARG:NH2	2.19	0.56
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.20	0.56
5:AE:42:GLY:HA2	5:AE:65:ASN:O	2.05	0.56
46:BN:58:ASP:OD2	46:BN:59:LYS:HG2	2.05	0.56
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.35	0.56
43:BI:5:LEU:HD13	43:BI:36:ALA:HB2	1.86	0.56
11:AK:57:THR:HG22	11:AK:59:TYR:N	2.20	0.56
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.05	0.56
40:BF:133:ASN:O	40:BF:135:LYS:N	2.38	0.56
35:BA:821:A:C2'	35:BA:946:G:H5''	2.35	0.56
16:CP:75:ARG:C	16:CP:77:ALA:H	2.08	0.56
42:BH:153:LYS:H	42:BH:153:LYS:CD	2.18	0.56
42:DH:153:LYS:H	42:DH:153:LYS:CD	2.18	0.56
1:CA:68:G:C2	1:CA:69:G:H1'	2.40	0.56
8:AH:77:GLU:HG2	8:AH:78:GLN:H	1.70	0.56
1:AA:1142:G:C2'	1:AA:1143:G:H5'	2.35	0.56
22:CV:74:C:H2'	22:CV:75:C:H5'	1.86	0.56
35:DA:221:A:H4'	35:DA:222:A:O5'	2.05	0.56
1:AA:243:A:H4'	1:AA:244:U:O5'	2.05	0.56
35:DA:144:C:O2'	35:DA:145:G:H5'	2.05	0.56
58:DZ:27:VAL:CG1	58:DZ:87:ASP:HB3	2.35	0.56
1:AA:840:C:H5''	1:AA:841:U:OP1	2.05	0.56
19:CS:58:VAL:O	19:CS:58:VAL:HG23	2.04	0.56
1:AA:596:C:H2'	1:AA:597:G:H8	1.70	0.56
13:AM:65:LYS:C	13:AM:66:LEU:HD12	2.26	0.56
20:CT:10:LEU:HG	20:CT:12:ALA:H	1.70	0.56
35:BA:1952:A:C5	47:BO:22:ILE:HD12	2.40	0.56
35:BA:1782:C:H5'	35:BA:2609:U:N3	2.19	0.56
55:BW:9:TYR:H	55:BW:102:HIS:CD2	2.23	0.56
35:BA:558:G:P	46:BN:111:PRO:HD2	2.45	0.56
26:D1:81:LYS:CE	35:DA:271(H):G:C4'	2.76	0.56
1:AA:508:C:H4'	1:AA:509:A:O5'	2.05	0.56
9:CI:85:LEU:O	9:CI:89:ASN:HB2	2.05	0.56
24:CY:23:GLU:HG3	24:CY:24:THR:N	2.20	0.56
53:BU:54:LYS:O	53:BU:58:ARG:HG3	2.05	0.56
9:AI:103:THR:HG22	9:AI:104:ARG:N	2.20	0.56
60:DI:29:TYR:O	60:DI:32:PRO:HD2	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:939:G:H1	1:AA:1344:C:H42	1.52	0.56
39:DE:82:ARG:O	39:DE:84:PHE:N	2.36	0.56
35:BA:676:A:H8	35:BA:2069:G:N2	1.99	0.56
50:DR:11:ASN:CG	50:DR:12:ARG:H	2.07	0.56
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.40	0.56
5:CE:107:ARG:O	5:CE:109:ILE:N	2.38	0.56
8:CH:11:THR:CG2	8:CH:15:ASN:HD21	2.16	0.56
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.19	0.56
24:CY:109:PHE:O	24:CY:110:PRO:O	2.22	0.56
27:D2:15:LYS:HG3	27:D2:15:LYS:O	2.05	0.56
35:BA:1468:C:H2'	35:BA:1469:A:C8	2.37	0.56
2:AB:82:ARG:HA	2:AB:92:TYR:CD1	2.40	0.56
20:CT:24:LEU:C	20:CT:24:LEU:HD13	2.25	0.56
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.35	0.56
35:DA:877:U:C2'	35:DA:878:A:H5''	2.35	0.56
1:CA:254:G:O2'	1:CA:255:G:H5'	2.05	0.56
10:AJ:3:LYS:HB3	10:AJ:77:PRO:HD3	1.87	0.56
7:CG:145:ALA:O	7:CG:146:GLU:HB3	2.04	0.56
6:AF:24:GLU:HG3	6:AF:25:ILE:N	2.21	0.56
34:B9:29:ASN:HD21	34:B9:32:HIS:CG	2.23	0.56
41:DG:34:LEU:CD1	41:DG:172:LEU:HD21	2.35	0.56
17:AQ:48:GLU:HB2	17:AQ:50:LYS:HG2	1.87	0.56
24:CY:141:THR:HG22	24:CY:145:GLU:OE1	2.05	0.56
35:DA:2819:G:H1	35:DA:2827:C:H42	1.52	0.56
1:CA:862:C:O2'	1:CA:863:U:H5'	2.05	0.56
1:CA:1004:A:HO2'	1:CA:1038:C:H1'	1.70	0.56
37:BC:96:GLY:C	37:BC:98:GLU:H	2.08	0.56
1:CA:1048:G:H5''	14:CN:2:ALA:N	2.20	0.56
36:DB:40:U:H1'	36:DB:45:A:N6	2.20	0.56
43:BI:145:VAL:HG12	43:BI:146:ALA:N	2.19	0.56
49:BQ:32:TYR:OH	49:BQ:111:GLU:HB3	2.05	0.56
35:BA:2683:C:OP1	52:BT:53:ARG:NH2	2.35	0.56
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.20	0.56
35:DA:908:C:O2'	35:DA:909:A:H5'	2.05	0.56
1:AA:197:A:N6	1:AA:221:C:H5'	2.19	0.56
35:DA:2773:C:H2'	35:DA:2774:C:H6	1.70	0.56
35:BA:2720:U:H2'	35:BA:2720:U:O2	2.05	0.56
40:DF:179:GLU:CD	40:DF:179:GLU:H	2.09	0.56
12:AL:60:LEU:H	12:AL:60:LEU:HD22	1.69	0.56
40:BF:192:LEU:HD23	40:BF:193:VAL:N	2.21	0.56
49:BQ:21:THR:HG21	49:BQ:101:ARG:HD2	1.87	0.56
36:BB:38:C:O2	36:BB:48:A:H1'	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AV:71:G:C3'	22:AV:72:C:H5''	2.35	0.56
35:BA:2759:G:H5'	35:BA:2759:G:C8	2.39	0.56
58:DZ:171:ILE:O	58:DZ:172:ALA:HB2	2.05	0.56
1:CA:1331:G:OP2	13:CM:23:TYR:HD2	1.87	0.56
33:B8:32:LEU:HD11	35:BA:2391:G:H3'	1.88	0.56
48:BP:28:GLY:C	48:BP:29:LYS:HD2	2.25	0.56
35:BA:613:G:C5'	35:BA:613:G:C8	2.88	0.56
35:BA:613:G:H5'	35:BA:613:G:C8	2.40	0.56
41:DG:39:ILE:HD12	41:DG:39:ILE:C	2.26	0.56
35:BA:2303:G:H1'	41:BG:132:ASN:ND2	2.20	0.56
60:DI:75:LEU:HD22	60:DI:141:LYS:HG3	1.86	0.56
24:AY:33:LEU:HB3	24:AY:36:PRO:HG2	1.87	0.56
28:B3:1:MET:SD	28:B3:38:GLU:HG3	2.45	0.56
53:DU:88:ILE:C	53:DU:90:VAL:H	2.08	0.56
35:BA:1177:A:H4'	35:BA:1178:C:C6	2.39	0.56
31:D6:40:CYS:HA	31:D6:46:HIS:H	1.71	0.56
31:B6:47:THR:HG22	31:B6:48:VAL:N	2.19	0.56
24:AY:214:VAL:CG1	24:AY:215:ASP:H	2.12	0.56
47:DO:104:ARG:HH21	52:DT:33:LYS:HE2	1.70	0.56
35:DA:2334:G:H21	51:DS:18:ILE:CD1	2.18	0.56
51:DS:89:ARG:HH11	51:DS:92:TYR:CA	2.12	0.56
35:DA:2174:C:H2'	35:DA:2175:C:O4'	2.04	0.56
19:CS:9:VAL:O	19:CS:9:VAL:HG12	2.04	0.56
42:DH:17:VAL:HB	42:DH:45:VAL:HG13	1.87	0.56
50:BR:2:ARG:CZ	50:BR:5:LYS:HZ2	2.18	0.56
35:DA:661:C:C4'	48:DP:16:ARG:HD3	2.35	0.56
58:BZ:61:LEU:CD2	58:BZ:61:LEU:H	2.19	0.56
56:DX:30:VAL:HG21	56:DX:79:ALA:HB3	1.86	0.56
48:BP:10:PRO:CD	48:BP:11:GLY:H	2.19	0.56
8:AH:4:ASP:OD1	8:AH:7:ALA:N	2.36	0.56
38:DD:25:THR:HG22	38:DD:82:ILE:O	2.05	0.56
38:DD:34:VAL:O	38:DD:34:VAL:HG13	2.05	0.56
38:DD:92:ILE:HG22	38:DD:93:ALA:N	2.20	0.56
22:CV:2:C:H2'	22:CV:3:C:C5'	2.35	0.56
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.87	0.56
35:DA:2107:C:H2'	35:DA:2108:C:O4'	2.05	0.56
12:CL:38:THR:HG22	12:CL:39:VAL:HG23	1.87	0.56
19:AS:6:LYS:N	19:AS:6:LYS:HE3	2.19	0.56
1:CA:940:C:H2'	1:CA:941:G:H8	1.70	0.56
43:BI:68:LEU:O	43:BI:72:LEU:HD23	2.06	0.56
54:BV:28:GLU:HB2	54:BV:31:ALA:HB2	1.88	0.56
1:CA:390:C:H2'	1:CA:391:G:H8	1.68	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
60:DI:111:PRO:O	60:DI:113:ARG:N	2.38	0.56
35:DA:483:A:O3'	57:DY:49:VAL:HG11	2.06	0.56
48:DP:140:ALA:O	48:DP:141:ALA:CB	2.53	0.56
35:BA:17:G:H4'	53:BU:25:TRP:CZ3	2.41	0.56
1:AA:1498:U:C2'	23:AX:20:U:OP2	2.53	0.56
20:AT:26:ASN:ND2	20:AT:27:LYS:N	2.52	0.56
55:BW:29:LEU:HD11	55:BW:33:ARG:HE	1.70	0.56
1:CA:1105:A:H2'	1:CA:1106:G:C8	2.39	0.56
35:BA:8:A:H2'	35:BA:9:U:H5	1.68	0.56
45:BK:57:ILE:HG13	45:BK:67:PHE:HB3	1.86	0.56
1:AA:428:G:H4'	1:AA:429:U:O5'	2.05	0.56
1:AA:17:U:H2'	1:AA:18:C:H6	1.67	0.56
28:D3:45:GLY:O	28:D3:48:GLU:HB2	2.06	0.56
13:CM:90:LEU:C	13:CM:92:HIS:N	2.58	0.56
35:BA:2617:C:C2'	35:BA:2618:G:H5'	2.35	0.56
11:AK:21:ILE:N	11:AK:21:ILE:HD12	2.20	0.56
24:AY:272:LYS:O	24:AY:275:ALA:HB3	2.05	0.56
11:CK:19:ALA:CB	11:CK:32:ILE:HG23	2.35	0.56
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.20	0.56
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.52	0.56
1:AA:82:U:O2'	1:AA:83:U:H5'	2.05	0.56
17:CQ:57:VAL:HG21	17:CQ:73:VAL:HG13	1.86	0.56
22:CV:45:U:H2'	22:CV:46:G:H5'	1.86	0.56
35:DA:321:G:OP2	40:DF:136:THR:HG22	2.05	0.56
1:CA:133:U:OP1	20:CT:74:LYS:HE2	2.05	0.56
2:AB:67:THR:HG21	2:AB:155:LEU:HG	1.87	0.56
49:BQ:12:GLN:HG2	49:BQ:73:PRO:HD2	1.86	0.56
18:CR:67:ALA:HA	18:CR:70:ILE:HG12	1.87	0.56
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.05	0.56
1:CA:1255:G:H3'	1:CA:1279:A:H62	1.70	0.56
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.39	0.56
24:CY:301:GLU:O	24:CY:302:VAL:HG13	2.05	0.56
35:DA:324:A:O2'	35:DA:325:G:H5'	2.05	0.56
17:AQ:76:LEU:HG	17:AQ:77:VAL:N	2.20	0.56
1:CA:444:C:H2'	1:CA:445:G:C8	2.39	0.56
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.40	0.56
35:DA:470:A:H5'	35:DA:470:A:H8	1.70	0.56
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.69	0.56
35:BA:2195:C:O2'	35:BA:2196:C:H5'	2.05	0.56
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.06	0.56
42:DH:103:LEU:HG	42:DH:104:GLU:N	2.20	0.56
1:CA:341:C:O2'	1:CA:342:C:H5'	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:157:U:H5'	35:DA:171:G:N2	2.19	0.56
34:B9:22:ARG:HH12	35:BA:2741:A:H5''	1.69	0.56
39:BE:39:PRO:HA	39:BE:43:GLY:HA2	1.88	0.56
35:DA:1047:G:N2	35:DA:1110:G:C8	2.73	0.56
35:DA:1625:C:H2'	35:DA:1626:G:O4'	2.06	0.56
27:B2:22:GLU:O	27:B2:26:ARG:HG3	2.05	0.56
13:AM:44:ARG:HB3	13:AM:46:LYS:HG2	1.88	0.56
35:DA:464:U:H2'	35:DA:465:G:O4'	2.05	0.56
35:BA:962:G:O2'	35:BA:963:U:H5'	2.05	0.56
53:BU:108:GLU:O	53:BU:112:ARG:HG2	2.04	0.56
1:CA:596:C:H2'	1:CA:597:G:H8	1.70	0.56
58:DZ:135:GLU:O	58:DZ:136:PHE:HB3	2.04	0.56
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.05	0.56
1:AA:900:A:H2'	1:AA:901:A:C8	2.39	0.56
35:BA:2747:G:O6	35:BA:2755:C:H5''	2.05	0.56
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.70	0.56
35:DA:2082:A:H2'	35:DA:2083:G:O4'	2.05	0.56
55:DW:9:TYR:H	55:DW:102:HIS:CD2	2.23	0.56
35:DA:2848:G:H3'	52:DT:95:ARG:O	2.06	0.56
40:BF:88:VAL:HG11	40:BF:91:GLY:HA3	1.87	0.56
3:AC:34:LEU:O	3:AC:37:GLN:HB2	2.05	0.56
35:BA:654(Q):C:H2'	35:BA:654(R):C:C6	2.41	0.56
1:AA:532:A:H2	1:AA:1207:G:H1'	1.70	0.56
1:CA:923:A:OP1	5:CE:21:ALA:HB2	2.05	0.56
1:AA:219:C:H2'	1:AA:220:G:O4'	2.06	0.56
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.87	0.56
35:DA:564:C:O2'	35:DA:565:C:H5'	2.06	0.56
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.70	0.56
3:AC:172:ARG:HH11	3:AC:172:ARG:HB3	1.70	0.56
32:D7:36:GLN:HG2	32:D7:36:GLN:O	2.04	0.56
20:AT:10:LEU:HG	20:AT:12:ALA:H	1.70	0.56
2:CB:132:LYS:O	2:CB:136:VAL:HG23	2.06	0.56
35:BA:1496:A:C8	35:BA:1577:C:O2'	2.59	0.56
2:CB:194:PRO:O	2:CB:196:LEU:N	2.38	0.56
30:B5:47:PRO:O	30:B5:48:GLU:HG3	2.05	0.56
24:CY:15:GLY:O	24:CY:19:ILE:HG12	2.05	0.56
36:BB:30:C:H4'	36:BB:58:A:H2	1.70	0.56
41:BG:109:VAL:O	41:BG:113:ARG:HG3	2.06	0.56
41:BG:173:LEU:C	41:BG:178:PHE:HD2	2.08	0.56
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.86	0.56
4:CD:31:CYS:C	4:CD:33:MET:N	2.58	0.56
26:D1:5:CYS:HG	26:D1:8:SER:HG	1.50	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:94:TYR:CZ	42:BH:160:LYS:HD2	2.40	0.56
38:BD:244:ARG:CD	38:BD:245:PRO:HB3	2.35	0.56
42:DH:159:GLU:CG	42:DH:160:LYS:N	2.69	0.56
9:AI:79:LEU:HD11	9:AI:83:ARG:CZ	2.35	0.56
9:AI:97:LYS:CB	9:AI:98:PRO:HD3	2.36	0.56
35:DA:2123:G:H2'	35:DA:2124:G:H8	1.67	0.56
27:D2:3:LEU:O	27:D2:7:ARG:HD2	2.05	0.56
40:BF:65:TRP:HZ3	40:BF:73:ALA:O	1.89	0.56
8:AH:84:ARG:NH1	8:AH:86:ILE:HD13	2.19	0.56
35:DA:1210:A:H5'	35:DA:1212:G:O4'	2.06	0.56
22:CV:1:G:H2'	22:CV:2:C:C6	2.38	0.56
19:CS:6:LYS:HE3	19:CS:6:LYS:N	2.18	0.56
38:DD:106:ILE:HD11	38:DD:143:HIS:CD2	2.40	0.56
4:AD:131:ARG:N	4:AD:131:ARG:HD3	2.16	0.56
35:DA:390:A:N6	48:DP:71:VAL:HG21	2.20	0.56
4:CD:131:ARG:H	4:CD:131:ARG:CD	2.16	0.56
35:DA:284:U:H2'	35:DA:285:C:H6	1.69	0.56
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.86	0.56
14:AN:13:THR:HG22	14:AN:13:THR:O	2.05	0.56
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.36	0.56
12:AL:59:ARG:HH11	12:AL:65:GLU:CG	2.18	0.56
35:BA:1278:A:O3'	50:BR:34:ILE:HG23	2.04	0.56
7:CG:115:ARG:HB2	7:CG:118:VAL:CG2	2.34	0.56
50:DR:24:GLN:HB3	50:DR:44:LEU:CD2	2.34	0.56
22:AV:20:U:C2'	22:AV:21:A:H5'	2.36	0.56
35:DA:2577:A:H5''	35:DA:2578:G:H5'	1.87	0.56
45:DK:102:GLU:HG2	45:DK:103:GLN:H	1.69	0.56
34:B9:10:ILE:HG23	35:BA:2477:C:H41	1.69	0.56
35:BA:2473:U:H2'	35:BA:2474:C:H5'	1.88	0.56
25:D0:65:GLY:HA2	25:D0:84:LEU:HD11	1.88	0.56
42:DH:85:LYS:HZ2	42:DH:133:VAL:HB	1.70	0.56
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.39	0.56
1:AA:68:G:C2	1:AA:69:G:H1'	2.40	0.56
6:CF:14:LEU:HD22	6:CF:18:GLN:NE2	2.20	0.56
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.40	0.56
1:CA:1349:A:H2'	1:CA:1350:A:C8	2.40	0.56
35:BA:157:U:H5'	35:BA:171:G:N2	2.19	0.56
35:DA:1782:C:H5'	35:DA:2609:U:N3	2.20	0.56
56:BX:57:LEU:HD21	56:BX:78:LYS:HD2	1.87	0.56
35:BA:289:A:H3'	35:BA:290:G:H8	1.69	0.56
35:DA:654(U):A:O2'	35:DA:654(V):A:H5'	2.05	0.56
4:CD:145:GLU:HG2	4:CD:184:LYS:NZ	2.20	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2107:C:H2'	35:BA:2108:C:O4'	2.06	0.56
35:DA:613:G:C8	35:DA:613:G:C5'	2.89	0.56
35:DA:2392:A:H2	35:DA:2424:C:N4	2.04	0.56
52:BT:29:ARG:HG2	52:BT:86:ILE:O	2.06	0.56
41:BG:7:LEU:HD23	41:BG:10:LYS:HD3	1.86	0.56
9:CI:93:ARG:C	9:CI:95:LYS:H	2.09	0.56
42:DH:170:ARG:H	42:DH:170:ARG:CD	2.17	0.56
5:AE:80:ILE:HA	8:AH:104:ARG:NH2	2.20	0.56
57:DY:26:LYS:HG2	57:DY:27:VAL:HG23	1.87	0.56
46:BN:24:GLY:O	46:BN:28:THR:HG22	2.06	0.56
51:BS:101:LEU:O	51:BS:106:ARG:NH2	2.38	0.56
42:BH:60:ARG:NH1	42:BH:64:LEU:HD21	2.16	0.56
38:DD:33:LEU:O	38:DD:36:PRO:HD3	2.06	0.56
43:BI:92:VAL:O	43:BI:92:VAL:HG22	2.05	0.56
27:B2:38:GLN:NE2	27:B2:44:LEU:HD13	2.20	0.56
1:CA:501:C:H1'	1:CA:549:C:H1'	1.88	0.56
35:BA:2692:C:H2'	35:BA:2693:A:H8	1.70	0.56
42:BH:40:GLU:HB3	42:BH:41:MET:SD	2.46	0.56
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.19	0.56
39:DE:24:THR:HB	39:DE:186:GLY:HA2	1.86	0.56
20:CT:25:ARG:O	20:CT:29:LYS:HE3	2.04	0.56
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.25	0.56
24:AY:191:ARG:HE	24:AY:194:PRO:HD3	1.71	0.56
1:CA:1514:C:O2'	1:CA:1515:C:H5'	2.05	0.56
3:CC:73:PRO:O	3:CC:76:VAL:HG22	2.05	0.56
42:BH:157:TYR:HE1	42:BH:171:LEU:N	2.01	0.56
35:DA:70:G:H21	35:DA:71:A:H62	1.52	0.56
34:B9:35:ARG:HG2	34:B9:36:GLN:N	2.20	0.56
1:AA:1255:G:H3'	1:AA:1279:A:H62	1.71	0.56
4:AD:201:GLN:O	4:AD:204:ILE:HB	2.06	0.56
4:AD:68:TYR:CE2	4:AD:97:LEU:HD22	2.39	0.56
35:DA:2830:G:H5'	39:DE:58:ARG:NH2	2.19	0.56
35:BA:1047:G:N2	35:BA:1110:G:C8	2.73	0.56
55:BW:25:ARG:HB2	55:BW:25:ARG:NH1	2.20	0.56
58:DZ:23:LYS:HD2	58:DZ:23:LYS:N	2.20	0.56
9:CI:32:ASP:HB3	9:CI:35:GLU:CB	2.35	0.56
35:DA:558:G:P	46:DN:111:PRO:HD2	2.44	0.56
1:AA:494:U:H2'	1:AA:495:A:H5'	1.86	0.56
35:BA:1490:A:H5'	35:BA:1491:G:OP1	2.05	0.56
55:DW:84:ARG:HB2	55:DW:96:ILE:HG22	1.87	0.56
22:CW:20:U:H2'	22:CW:21:A:H4'	1.88	0.56
33:D8:34:TRP:CB	35:DA:2420:C:OP1	2.48	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:28:VAL:HG22	52:BT:46:GLU:HA	1.88	0.56
1:AA:355:C:C2	1:AA:356:A:N7	2.73	0.56
35:DA:573:G:O2'	35:DA:574:C:H3'	2.06	0.56
54:DV:47:VAL:HG13	54:DV:52:VAL:N	2.20	0.56
48:DP:147:LEU:CG	48:DP:148:LEU:N	2.69	0.56
48:BP:148:LEU:H	48:BP:148:LEU:HD13	1.71	0.56
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	2.05	0.56
35:BA:2127:G:O2'	35:BA:2173:A:H2	1.88	0.56
37:BC:50:ASP:O	37:BC:50:ASP:CG	2.44	0.56
2:AB:42:ILE:HD13	2:AB:203:GLY:HA2	1.88	0.56
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.35	0.56
35:BA:2188:C:H2'	35:BA:2189:U:O4'	2.04	0.56
54:DV:28:GLU:HB2	54:DV:31:ALA:HB2	1.88	0.56
4:CD:131:ARG:HD3	4:CD:131:ARG:N	2.18	0.56
1:CA:6:G:H4'	1:CA:298:A:H4'	1.88	0.56
12:CL:59:ARG:HH11	12:CL:65:GLU:CG	2.16	0.56
39:DE:77:ILE:CG2	39:DE:78:LEU:HD23	2.35	0.56
35:DA:2098:U:H2'	35:DA:2099:U:H6	1.71	0.56
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.38	0.56
39:DE:23:VAL:HG11	39:DE:173:VAL:HG11	1.88	0.56
35:DA:2473:U:H2'	35:DA:2474:C:H5'	1.88	0.56
4:CD:128:VAL:O	4:CD:130:GLY:N	2.39	0.56
1:CA:636:U:H5'	17:CQ:2:PRO:HG3	1.86	0.56
1:AA:79:G:C1'	1:AA:80:G:H8	2.17	0.56
20:CT:14:LYS:O	20:CT:18:GLN:HG3	2.05	0.56
35:BA:2746:U:H5''	42:BH:138:LYS:HE2	1.88	0.56
46:DN:6:PRO:HG2	46:DN:41:ASP:O	2.05	0.56
43:BI:29:TYR:CD2	43:BI:30:LEU:HD23	2.41	0.56
1:AA:926:G:C6	1:AA:1505:G:C6	2.94	0.56
35:BA:2819:G:H1	35:BA:2827:C:H42	1.52	0.56
35:BA:1508:A:H2'	35:BA:1508:A:N3	2.19	0.56
43:BI:2:LYS:O	43:BI:39:ALA:HB3	2.06	0.56
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.70	0.56
9:CI:32:ASP:HB3	9:CI:35:GLU:HB2	1.87	0.56
35:BA:997:G:OP1	53:BU:93:LYS:HD3	2.04	0.56
1:CA:607:A:C2	16:CP:31:LYS:HG3	2.41	0.56
1:CA:148:G:H2'	1:CA:149:A:H8	1.70	0.56
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.40	0.56
46:DN:119:ARG:CG	46:DN:119:ARG:HH11	2.18	0.56
35:BA:1652:A:C2'	35:BA:1653:G:H5'	2.36	0.56
35:BA:564:C:O2'	35:BA:565:C:H5'	2.06	0.56
11:CK:34:ASP:OD2	11:CK:36:ASP:HB2	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1405:G:O2'	1:AA:1406:U:H5'	2.06	0.56
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.41	0.56
42:DH:72:ILE:O	42:DH:75:ALA:HB3	2.05	0.56
35:DA:1058:G:H5''	45:DK:1:MET:SD	2.45	0.56
35:BA:1607:C:H4'	35:BA:1608:A:O5'	2.06	0.56
55:DW:22:ASP:HA	55:DW:25:ARG:HH12	1.70	0.56
26:B1:86:SER:CB	26:B1:89:GLU:HB2	2.27	0.56
31:D6:33:LYS:O	31:D6:34:LEU:HB2	2.06	0.56
57:DY:60:PHE:HA	57:DY:62:GLU:CD	2.26	0.56
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.54	0.56
4:CD:194:LEU:N	4:CD:194:LEU:HD22	2.20	0.56
41:BG:161:THR:CG2	41:BG:162:THR:N	2.69	0.56
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.39	0.56
1:AA:555:C:H2'	1:AA:556:C:C6	2.32	0.56
38:BD:244:ARG:HD2	38:BD:245:PRO:CA	2.36	0.56
41:DG:177:GLY:O	41:DG:179:PRO:HD3	2.06	0.56
58:DZ:30:ASN:ND2	58:DZ:32:HIS:N	2.51	0.56
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.36	0.56
38:DD:242:ARG:O	38:DD:243:GLY:C	2.44	0.56
52:BT:102:ILE:O	52:BT:106:SER:HB3	2.05	0.56
35:DA:1021:A:C3'	35:DA:1021:A:C8	2.88	0.56
52:DT:3:ARG:HG2	52:DT:6:LEU:N	2.15	0.56
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.30	0.56
34:B9:17:ILE:HD11	35:BA:2754:U:H1'	1.86	0.56
24:CY:253:HIS:HB2	24:CY:279:LEU:HD11	1.86	0.56
43:BI:71:ILE:HG23	43:BI:72:LEU:CD2	2.34	0.56
1:CA:556:C:C2'	1:CA:557:G:H5'	2.35	0.56
8:CH:84:ARG:NH1	8:CH:86:ILE:HD13	2.19	0.56
39:BE:52:LEU:HD12	39:BE:53:PRO:HD2	1.87	0.56
24:CY:81:ALA:HB1	24:CY:84:ARG:HG2	1.87	0.56
35:DA:2635:C:OP1	39:DE:77:ILE:HG21	2.06	0.56
35:BA:2098:U:H2'	35:BA:2099:U:H6	1.70	0.56
13:CM:86:CYS:O	13:CM:89:GLY:N	2.38	0.56
42:DH:40:GLU:O	42:DH:41:MET:HB2	2.05	0.56
12:AL:83:VAL:HG21	12:AL:100:ILE:HG23	1.88	0.56
11:CK:21:ILE:HD13	11:CK:84:VAL:CG1	2.36	0.56
38:BD:271:ILE:O	38:BD:272:ALA:CB	2.54	0.56
36:BB:40:U:H1'	36:BB:45:A:N6	2.19	0.56
46:BN:6:PRO:O	46:BN:7:LYS:HG3	2.06	0.56
35:BA:2131:G:H5''	35:BA:2132:U:H5''	1.88	0.56
22:AV:63:G:H2'	22:AV:64:A:O4'	2.06	0.56
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.86	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:22:TRP:CZ3	3:AC:24:ALA:HB2	2.40	0.56
34:D9:20:HIS:C	34:D9:22:ARG:H	2.09	0.56
55:DW:25:ARG:HB2	55:DW:25:ARG:NH1	2.21	0.56
3:AC:5:ILE:HD12	3:AC:5:ILE:O	2.06	0.56
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.41	0.56
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.88	0.56
35:BA:464:U:H2'	35:BA:465:G:O4'	2.04	0.56
35:BA:740:U:H6	35:BA:740:U:H5'	1.71	0.56
47:BO:13:ASN:HD22	47:BO:97:ARG:HB2	1.70	0.56
11:AK:99:GLN:OE1	11:AK:105:VAL:HG21	2.06	0.56
35:DA:1666:G:O3'	47:DO:6:THR:HG23	2.06	0.56
42:DH:47:GLU:HB2	42:DH:51:ARG:HH21	1.69	0.56
44:BJ:102:UNK:HA	44:BJ:106:UNK:CB	2.36	0.56
24:CY:79:LEU:HB2	24:CY:80:PRO:HD3	1.86	0.56
55:DW:86:LEU:HD12	55:DW:86:LEU:C	2.26	0.56
35:BA:1111:A:N3	35:BA:1112:G:H1'	2.21	0.56
12:AL:71:PRO:O	12:AL:102:ARG:HD2	2.05	0.56
35:DA:1652:A:C2'	35:DA:1653:G:H5'	2.36	0.56
35:DA:1762:A:H8	35:DA:1762:A:O5'	1.87	0.56
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.05	0.56
26:D1:56:GLN:HE21	26:D1:56:GLN:HA	1.71	0.56
22:AV:73:A:N3	22:AV:73:A:H5'	2.20	0.56
1:CA:1305:G:OP1	21:CU:2:GLY:HA3	2.06	0.56
2:CB:35:GLU:HG3	2:CB:39:ILE:O	2.05	0.56
30:B5:4:HIS:O	35:BA:2056:G:N2	2.38	0.56
42:BH:43:VAL:HG21	42:BH:52:VAL:HG22	1.87	0.56
58:BZ:108:PRO:HA	58:BZ:142:SER:CA	2.25	0.56
52:DT:120:ARG:O	52:DT:123:GLN:HG2	2.05	0.56
52:DT:29:ARG:HG2	52:DT:86:ILE:O	2.06	0.56
35:DA:574:C:N3	39:DE:145:LYS:HE2	2.21	0.56
39:BE:132:HIS:ND1	39:BE:135:HIS:NE2	2.48	0.56
1:CA:409:G:C5'	4:CD:25:ARG:HB2	2.35	0.56
24:AY:33:LEU:HD22	35:BA:1095:A:H61	1.70	0.56
24:AY:31:ARG:NH1	45:BK:34:ILE:HG13	2.21	0.56
48:DP:148:LEU:H	48:DP:148:LEU:HD13	1.71	0.56
1:AA:555:C:OP1	12:AL:20:LYS:HD2	2.05	0.56
35:BA:1826:G:H4'	38:BD:242:ARG:NE	2.18	0.56
31:B6:41:PRO:HG2	31:B6:43:CYS:H	1.71	0.56
57:BY:7:VAL:HB	57:BY:8:LYS:NZ	2.21	0.56
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.27	0.56
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.88	0.56
35:BA:1598:C:H5'	56:BX:36:LYS:CG	2.36	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:63:LYS:NZ	40:DF:67:GLN:HB2	2.21	0.56
42:DH:126:PRO:O	42:DH:127:GLU:CB	2.53	0.56
20:AT:57:ARG:HH12	20:AT:102:GLY:HA2	1.71	0.56
1:AA:1413:A:C2	1:AA:1414:U:C2	2.93	0.56
39:DE:4:ILE:CG1	39:DE:28:ALA:HB1	2.36	0.56
13:AM:27:LYS:CE	13:AM:31:LYS:HE3	2.34	0.56
24:CY:283:LEU:O	24:CY:287:GLU:HB2	2.06	0.56
1:AA:314:C:O2'	1:AA:315:A:H5'	2.04	0.56
51:BS:59:LYS:HB2	51:BS:65:VAL:HG22	1.87	0.56
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.48	0.56
1:CA:501:C:H2'	1:CA:502:G:H8	1.70	0.56
1:AA:627:G:H2'	1:AA:628:G:C8	2.41	0.56
42:DH:115:VAL:CG1	42:DH:148:ILE:HD11	2.34	0.56
42:BH:33:LEU:HD12	42:BH:78:GLY:HA3	1.87	0.56
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.26	0.56
8:AH:29:SER:HB3	8:AH:32:LYS:CB	2.34	0.56
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.05	0.56
1:AA:1278:U:H3'	1:AA:1279:A:H5'	1.88	0.56
1:AA:382:A:H2'	1:AA:383:A:C8	2.40	0.56
35:DA:958:U:H5''	49:DQ:14:ARG:CD	2.35	0.56
35:BA:2830:G:H5'	39:BE:58:ARG:NH2	2.20	0.56
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.41	0.56
35:BA:1531:C:H3'	35:BA:1532:C:C5'	2.35	0.56
22:CW:45:U:H2'	22:CW:46:G:H5'	1.88	0.56
7:CG:6:ARG:HG2	7:CG:6:ARG:O	2.06	0.56
42:DH:103:LEU:HB2	42:DH:123:PHE:CD2	2.41	0.56
2:CB:144:ARG:O	2:CB:147:LYS:HB3	2.06	0.56
35:DA:1047:G:O2'	35:DA:1110:G:C2	2.57	0.56
1:CA:149:A:H2'	1:CA:150:C:C6	2.41	0.56
37:BC:79:LYS:HE2	37:BC:97:GLU:OE2	2.05	0.56
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.20	0.56
35:DA:315:G:H2'	35:DA:316:C:C6	2.40	0.56
1:AA:913:A:H4'	1:AA:914:A:O5'	2.05	0.56
13:CM:65:LYS:C	13:CM:66:LEU:HD12	2.26	0.56
6:AF:91:VAL:CG1	6:AF:92:LYS:N	2.68	0.56
50:BR:53:HIS:HA	50:BR:56:LYS:HB2	1.88	0.56
56:DX:66:LEU:HD23	56:DX:67:GLY:N	2.20	0.56
40:BF:178:PRO:HB2	40:BF:201:VAL:HG11	1.87	0.56
35:DA:654(Q):C:H2'	35:DA:654(R):C:C6	2.41	0.56
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.71	0.56
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.21	0.56
26:B1:51:VAL:HG22	26:B1:52:ARG:N	2.21	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.05	0.56
57:BY:96:ILE:HD12	57:BY:99:CYS:CB	2.36	0.56
24:AY:75:LEU:HA	24:AY:78:GLU:O	2.05	0.56
24:AY:88:LYS:O	24:AY:92:GLU:HG2	2.06	0.56
41:DG:64:THR:HG23	41:DG:66:GLN:H	1.71	0.56
35:BA:2308:G:O6	35:BA:2310:A:N3	2.38	0.56
27:B2:67:LYS:O	27:B2:69:ARG:N	2.39	0.56
38:DD:79:VAL:HG11	38:DD:111:LEU:HD12	1.87	0.56
40:BF:80:ALA:O	40:BF:83:PHE:HB2	2.05	0.56
38:BD:244:ARG:HH11	38:BD:244:ARG:HG2	1.71	0.56
54:BV:5:VAL:CG2	54:BV:37:VAL:HG23	2.36	0.56
35:BA:2443:C:O2'	35:BA:2444:G:H5'	2.05	0.56
35:BA:1203:G:H4'	48:BP:7:ARG:HD3	1.88	0.56
38:DD:25:THR:O	38:DD:25:THR:HG23	2.06	0.56
1:AA:940:C:H2'	1:AA:941:G:H8	1.70	0.56
35:BA:483:A:O3'	57:BY:49:VAL:HG11	2.05	0.56
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.17	0.56
50:BR:48:VAL:HA	50:BR:51:LEU:HD13	1.88	0.56
11:AK:59:TYR:CZ	11:AK:63:LEU:HD12	2.41	0.56
1:AA:1104:G:O2'	1:AA:1105:A:H5'	2.06	0.56
39:BE:78:LEU:CD2	39:BE:78:LEU:N	2.64	0.56
35:BA:141:A:H8	35:BA:1408:C:O2'	1.85	0.56
1:AA:624:C:H4'	16:AP:10:GLY:C	2.26	0.56
53:BU:27:LEU:H	53:BU:27:LEU:HD23	1.71	0.56
35:BA:1469:A:O2'	35:BA:1470:G:H5'	2.05	0.56
42:BH:18:GLU:HG3	42:BH:25:LYS:HG3	1.87	0.56
1:AA:501:C:H2'	1:AA:502:G:C8	2.41	0.56
35:DA:2476:A:C2	35:DA:2477:C:C4	2.94	0.56
24:AY:191:ARG:HH21	24:AY:194:PRO:HD2	1.70	0.56
2:CB:82:ARG:HA	2:CB:92:TYR:CD1	2.40	0.56
10:CJ:4:ILE:HA	10:CJ:100:THR:HG22	1.87	0.56
42:BH:141:VAL:CG1	42:BH:142:GLY:N	2.68	0.56
6:AF:94:GLN:OE1	18:AR:32:ARG:HD2	2.06	0.56
27:D2:24:LEU:CD2	27:D2:28:LYS:HE2	2.36	0.56
1:AA:858:G:O6	1:AA:869:G:H3'	2.06	0.56
1:CA:382:A:H2'	1:CA:383:A:C8	2.41	0.56
4:CD:68:TYR:CE2	4:CD:97:LEU:HD22	2.41	0.56
1:AA:1499:A:H5'	1:AA:1499:A:C8	2.41	0.56
1:AA:274:A:O2'	1:AA:275:G:O4'	2.24	0.56
1:AA:341:C:H2'	1:AA:342:C:C6	2.40	0.56
36:BB:4:C:H2'	36:BB:5:C:C6	2.41	0.56
35:BA:1560:G:O2'	35:BA:1561:G:H5'	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:121:PRO:HB3	38:DD:135:PHE:CE2	2.41	0.56
35:BA:2178:C:H5''	37:BC:46:LYS:HG2	1.88	0.56
1:AA:706:A:C5	1:AA:707:C:C5	2.93	0.56
35:DA:301:G:H1'	35:DA:302:C:C6	2.41	0.56
38:DD:132:PRO:HD3	38:DD:190:TYR:CZ	2.41	0.56
26:D1:80:LEU:HD22	26:D1:81:LYS:H	1.67	0.56
41:DG:33:ARG:O	41:DG:161:THR:HG23	2.06	0.56
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.41	0.56
16:AP:5:ARG:O	16:AP:19:ILE:HA	2.06	0.56
42:BH:88:LEU:HD22	42:BH:88:LEU:N	2.21	0.56
5:AE:93:PRO:CG	8:AH:105:ARG:HE	2.19	0.56
35:DA:1827:C:H2'	35:DA:1828:G:C5'	2.36	0.56
9:CI:105:ASP:OD2	9:CI:107:ARG:HD3	2.05	0.56
27:B2:54:LYS:O	27:B2:57:ILE:HB	2.05	0.56
27:D2:7:ARG:O	27:D2:11:GLU:HG3	2.06	0.56
1:CA:1223:C:P	19:CS:78:ARG:HH21	2.29	0.56
12:CL:25:PRO:C	12:CL:27:LEU:H	2.09	0.56
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.32	0.56
38:DD:95:LEU:HD13	38:DD:97:TYR:CE1	2.41	0.56
47:BO:104:ARG:HH21	52:BT:33:LYS:HE2	1.70	0.56
4:CD:108:LEU:O	4:CD:110:PHE:CD1	2.59	0.56
35:DA:483:A:N7	35:DA:497:A:H2	2.04	0.56
14:CN:13:THR:HG22	14:CN:13:THR:O	2.05	0.56
39:DE:48:GLN:NE2	39:DE:78:LEU:HD11	2.20	0.56
13:AM:86:CYS:O	13:AM:89:GLY:N	2.39	0.56
1:AA:501:C:H1'	1:AA:549:C:H1'	1.88	0.56
36:DB:65:C:H2'	36:DB:109:C:H41	1.72	0.56
1:CA:1248:A:C2'	1:CA:1249:C:H5'	2.36	0.56
54:DV:79:VAL:O	54:DV:79:VAL:HG12	2.06	0.56
1:AA:1000:U:H2'	1:AA:1001:A:C8	2.40	0.56
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.36	0.56
6:AF:82:ARG:HH11	6:AF:82:ARG:CB	2.19	0.56
35:BA:247:G:N7	35:BA:249:C:C2	2.74	0.56
35:DA:1087:G:H1	35:DA:1102:C:H42	1.53	0.56
1:CA:295:C:H2'	1:CA:296:U:C6	2.41	0.56
2:AB:144:ARG:O	2:AB:147:LYS:HB3	2.06	0.56
35:DA:2483:C:N3	49:DQ:124:LYS:NZ	2.54	0.56
48:DP:108:LYS:O	48:DP:109:GLY:O	2.24	0.56
35:BA:2013:A:H4'	55:BW:96:ILE:HD12	1.87	0.56
40:BF:130:ALA:HB3	40:BF:142:TRP:HD1	1.68	0.56
35:DA:2650:U:O2'	35:DA:2651:C:H5'	2.06	0.56
1:CA:930:C:O2'	1:CA:931:C:H5'	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:882:C:O2'	1:AA:883:C:H5'	2.06	0.56
35:BA:2880:C:O2'	50:BR:90:ARG:NH1	2.38	0.56
35:DA:1655:A:C8	35:DA:1656:C:C5	2.94	0.56
35:BA:2082:A:H2'	35:BA:2083:G:O4'	2.05	0.56
35:DA:1388:G:O2'	35:DA:1389:G:H5'	2.06	0.56
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.40	0.56
26:B1:89:GLU:O	26:B1:93:GLU:HG2	2.06	0.55
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.06	0.55
31:D6:30:THR:O	31:D6:31:PRO:C	2.44	0.55
52:BT:32:TYR:CD2	52:BT:81:PRO:O	2.59	0.55
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.21	0.55
40:BF:11:VAL:HG12	40:BF:12:LEU:H	1.71	0.55
24:AY:88:LYS:HE2	24:AY:92:GLU:OE1	2.06	0.55
41:DG:83:ARG:O	41:DG:85:GLY:N	2.38	0.55
24:CY:62:PHE:O	24:CY:66:GLU:CB	2.54	0.55
53:DU:57:PHE:C	53:DU:59:ARG:N	2.55	0.55
37:BC:78:ALA:HA	37:BC:82:LYS:HD2	1.89	0.55
31:D6:37:ARG:O	31:D6:48:VAL:O	2.24	0.55
24:CY:35:ASP:N	24:CY:36:PRO:HD3	2.21	0.55
5:AE:93:PRO:HG2	8:AH:105:ARG:HE	1.72	0.55
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.88	0.55
1:AA:1347:G:C6	9:AI:107:ARG:NH2	2.72	0.55
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.74	0.55
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.29	0.55
37:DC:50:ASP:CG	37:DC:50:ASP:O	2.44	0.55
1:AA:1014:A:H5'	19:AS:14:HIS:CD2	2.41	0.55
35:BA:666:G:H5"	48:BP:47:ASP:O	2.05	0.55
39:DE:47:VAL:HG21	39:DE:86:PRO:HD3	1.88	0.55
35:DA:1082:U:H5'	45:DK:117:THR:CG2	2.33	0.55
1:CA:921:U:O2	5:CE:19:MET:HB2	2.06	0.55
49:BQ:55:VAL:HG12	49:BQ:64:ILE:HD12	1.87	0.55
35:DA:2485:G:C5'	49:DQ:46:GLN:HE21	2.18	0.55
14:AN:9:LYS:HA	14:AN:12:ARG:HD3	1.88	0.55
10:CJ:48:THR:HG22	10:CJ:49:VAL:N	2.21	0.55
35:BA:2635:C:OP1	39:BE:77:ILE:HG21	2.05	0.55
15:AO:82:ILE:HG23	15:AO:83:GLU:H	1.71	0.55
42:DH:146:ALA:HA	42:DH:149:ARG:HB3	1.88	0.55
6:CF:97:PHE:HB2	18:CR:32:ARG:HH21	1.70	0.55
49:BQ:79:LEU:HD23	49:BQ:80:GLU:H	1.70	0.55
24:CY:182:PRO:HA	24:CY:352:LYS:NZ	2.20	0.55
7:AG:145:ALA:O	7:AG:146:GLU:HB3	2.04	0.55
1:AA:1493:A:H2'	1:AA:1494:G:H5"	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:557:U:O2'	35:DA:558:G:H5'	2.05	0.55
4:CD:70:ILE:HG12	4:CD:71:SER:N	2.21	0.55
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.41	0.55
1:CA:1260:C:OP1	1:CA:1284:C:H4'	2.06	0.55
35:DA:271(J):C:H2'	35:DA:271(K):U:H5''	1.86	0.55
49:DQ:21:THR:HG21	49:DQ:101:ARG:HD2	1.87	0.55
3:AC:62:ASP:HA	3:AC:97:LYS:NZ	2.21	0.55
1:AA:1508:G:H2'	1:AA:1509:C:O4'	2.07	0.55
24:CY:327:GLY:O	24:CY:328:LEU:C	2.43	0.55
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.70	0.55
1:AA:174:C:H2'	1:AA:175:C:H6	1.71	0.55
46:BN:65:LYS:HB2	46:BN:69:GLN:CG	2.36	0.55
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.26	0.55
35:BA:2286:A:H4'	35:BA:2287:A:O4'	2.06	0.55
33:B8:32:LEU:HD11	35:BA:2392:A:OP1	2.04	0.55
40:BF:28:ILE:O	40:BF:30:PRO:HD3	2.06	0.55
41:BG:110:ALA:HA	41:BG:140:ILE:HG23	1.87	0.55
41:BG:117:PHE:CD1	41:BG:118:ARG:N	2.74	0.55
28:B3:38:GLU:HG3	28:B3:39:ASP:H	1.70	0.55
54:DV:5:VAL:HG21	54:DV:35:LEU:CB	2.37	0.55
41:DG:107:LEU:N	41:DG:107:LEU:HD23	2.18	0.55
31:B6:15:GLU:OE2	31:B6:41:PRO:HG3	2.07	0.55
22:AW:1:G:N1	22:AW:73:A:C2	2.74	0.55
58:DZ:56:VAL:HG22	58:DZ:70:LEU:HD21	1.87	0.55
54:BV:5:VAL:HG21	54:BV:35:LEU:CB	2.36	0.55
57:DY:4:LYS:C	57:DY:4:LYS:HD2	2.27	0.55
9:AI:7:THR:O	9:AI:79:LEU:HD12	2.05	0.55
4:AD:96:LEU:HD23	4:AD:139:ARG:NH1	2.21	0.55
59:D4:50:THR:CG2	59:D4:51:TYR:H	2.16	0.55
48:BP:18:ARG:CZ	48:BP:18:ARG:HB3	2.35	0.55
52:DT:108:ARG:HG3	52:DT:109:GLU:N	2.19	0.55
51:DS:106:ARG:HH11	51:DS:109:GLY:N	2.02	0.55
5:AE:101:ILE:O	5:AE:101:ILE:HG12	2.07	0.55
35:BA:1210:A:H5'	35:BA:1212:G:O4'	2.06	0.55
9:CI:14:VAL:O	9:CI:65:VAL:HG23	2.05	0.55
53:DU:50:ARG:HH22	54:DV:72:VAL:HG12	1.71	0.55
46:BN:22:THR:HB	46:BN:25:ARG:HB2	1.88	0.55
39:BE:134:ILE:H	39:BE:134:ILE:HD13	1.71	0.55
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.41	0.55
4:AD:128:VAL:O	4:AD:130:GLY:N	2.39	0.55
35:DA:1300:U:H4'	35:DA:1301:A:O5'	2.05	0.55
1:AA:133:U:OP1	20:AT:74:LYS:HE2	2.05	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:43:GLN:O	33:D8:44:LYS:HD2	2.06	0.55
26:B1:8:SER:HB3	26:B1:66:HIS:CE1	2.41	0.55
35:DA:1479:G:H5'	35:DA:1558:A:C2	2.42	0.55
1:CA:1278:U:H3'	1:CA:1279:A:H5'	1.87	0.55
53:BU:8:VAL:HG12	53:BU:9:VAL:N	2.20	0.55
3:CC:155:GLY:HA2	3:CC:164:ARG:O	2.06	0.55
35:BA:2010:G:H5''	55:BW:42:ARG:HB2	1.87	0.55
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.88	0.55
30:B5:55:ARG:C	30:B5:56:LYS:HD2	2.26	0.55
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.20	0.55
4:CD:145:GLU:C	4:CD:146:ILE:HD12	2.26	0.55
39:DE:39:PRO:HA	39:DE:43:GLY:HA2	1.87	0.55
9:AI:106:ALA:O	9:AI:108:VAL:HG22	2.06	0.55
35:BA:2115:G:H3'	35:BA:2116:G:H5'	1.88	0.55
22:AV:24:G:O2'	35:BA:1923:U:OP1	2.24	0.55
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.87	0.55
43:BI:61:ARG:HA	43:BI:64:GLU:OE2	2.06	0.55
35:BA:107:C:H2'	35:BA:108:U:H6	1.71	0.55
35:DA:2683:C:OP1	52:DT:53:ARG:NH2	2.36	0.55
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.71	0.55
45:DK:89:HIS:O	45:DK:91:PRO:HD3	2.06	0.55
58:BZ:151:HIS:CG	58:BZ:170:THR:HA	2.40	0.55
4:AD:59:ARG:CA	4:AD:59:ARG:HE	2.02	0.55
35:DA:743:G:O2'	35:DA:744:G:H5'	2.07	0.55
4:CD:9:CYS:HA	4:CD:12:CYS:CB	2.36	0.55
57:BY:2:ARG:N	57:BY:5:MET:HG2	2.22	0.55
35:DA:1826:G:H4'	38:DD:242:ARG:NE	2.14	0.55
38:DD:244:ARG:HD2	38:DD:245:PRO:CA	2.36	0.55
38:DD:244:ARG:CD	38:DD:245:PRO:HB3	2.36	0.55
9:CI:103:THR:HG22	9:CI:104:ARG:N	2.21	0.55
51:DS:25:ARG:O	51:DS:39:ILE:HA	2.06	0.55
4:CD:138:TYR:CD2	4:CD:138:TYR:C	2.80	0.55
35:DA:2534:A:H8	35:DA:2534:A:C5'	2.19	0.55
38:DD:24:ILE:O	38:DD:24:ILE:HG23	2.07	0.55
1:CA:436:C:H2'	1:CA:437:U:C6	2.39	0.55
5:CE:76:ILE:CG2	5:CE:93:PRO:HB3	2.36	0.55
14:AN:22:THR:O	14:AN:23:ARG:CB	2.51	0.55
48:DP:125:VAL:HG11	48:DP:138:LEU:HD21	1.86	0.55
1:AA:434:U:H2'	1:AA:435:C:H6	1.70	0.55
20:AT:24:LEU:HD13	20:AT:24:LEU:C	2.26	0.55
1:CA:972:C:O3'	10:CJ:57:LYS:CG	2.55	0.55
51:DS:54:LEU:C	51:DS:56:LEU:H	2.10	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:35:ARG:HD3	46:DN:37:LYS:HD2	1.88	0.55
27:D2:42:GLY:O	27:D2:43:GLN:C	2.44	0.55
22:AV:39:U:H2'	22:AV:40:C:C6	2.41	0.55
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.41	0.55
1:CA:519:C:O2'	1:CA:520:A:H5'	2.06	0.55
24:CY:251:VAL:HG21	24:CY:276:LEU:CD2	2.35	0.55
22:CV:16:U:O3'	22:CV:17:C:H6	1.89	0.55
35:BA:999:U:H5''	35:BA:1154:G:O6	2.06	0.55
7:CG:145:ALA:C	7:CG:147:ALA:H	2.09	0.55
7:CG:84:ASN:HD22	22:CW:33:U:H4'	1.71	0.55
16:CP:19:ILE:HG22	16:CP:36:ILE:HD11	1.87	0.55
16:CP:36:ILE:HG13	16:CP:37:GLY:H	1.70	0.55
1:AA:295:C:H2'	1:AA:296:U:C6	2.41	0.55
1:CA:274:A:O2'	1:CA:275:G:C8	2.58	0.55
35:BA:1464:C:HO2'	35:BA:1528:A:H8	1.51	0.55
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	1.88	0.55
1:AA:879:C:O2'	1:AA:880:C:H5'	2.05	0.55
35:BA:1783:A:C2	35:BA:2587:A:C5	2.95	0.55
16:CP:58:TYR:HD1	16:CP:59:TRP:N	2.04	0.55
5:CE:132:ALA:O	5:CE:135:THR:HB	2.06	0.55
35:BA:1385:G:C4	35:BA:1386:C:C5	2.94	0.55
35:BA:2403:C:H42	35:BA:2414:G:H1	1.53	0.55
35:BA:1481:U:H5'	35:BA:1482:G:OP2	2.07	0.55
19:CS:41:VAL:HB	19:CS:44:MET:SD	2.46	0.55
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.06	0.55
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.26	0.55
14:AN:31:ARG:HH11	14:AN:31:ARG:HG3	1.70	0.55
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.05	0.55
1:AA:169:C:C2'	1:AA:170:U:H5'	2.36	0.55
26:B1:58:ILE:HD11	26:B1:91:LYS:CB	2.37	0.55
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.34	0.55
52:BT:84:GLN:O	52:BT:85:LYS:HB2	2.07	0.55
35:BA:2207:G:N3	35:BA:2207:G:H2'	2.20	0.55
35:DA:2759:G:H5'	35:DA:2759:G:H8	1.72	0.55
40:DF:3:GLU:HG2	40:DF:19:GLU:CB	2.23	0.55
42:BH:170:ARG:H	42:BH:170:ARG:CD	2.19	0.55
57:BY:28:LYS:CE	57:BY:28:LYS:H	2.19	0.55
9:AI:53:VAL:HG11	9:AI:92:TYR:CE2	2.42	0.55
19:CS:19:VAL:O	19:CS:20:LEU:HD23	2.07	0.55
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	2.12	0.55
2:AB:54:THR:CG2	2:AB:201:ILE:HD11	2.33	0.55
35:BA:1349:A:N6	35:BA:1598:C:H42	2.04	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.16	0.55
38:DD:142:VAL:HG22	38:DD:143:HIS:N	2.22	0.55
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.17	0.55
58:DZ:15:PRO:HB3	58:DZ:19:ARG:NH2	2.20	0.55
10:AJ:89:ASP:C	10:AJ:90:LEU:HD12	2.25	0.55
24:AY:310:GLN:N	24:AY:310:GLN:OE1	2.39	0.55
35:DA:2481:G:O2'	35:DA:2482:G:P	2.65	0.55
29:B4:46:ASN:ND2	29:B4:47:VAL:N	2.55	0.55
3:CC:64:VAL:HG12	3:CC:66:VAL:CG2	2.37	0.55
1:AA:1456:G:H2'	1:AA:1457:G:O4'	2.07	0.55
42:BH:146:ALA:HA	42:BH:149:ARG:HB3	1.87	0.55
42:BH:85:LYS:HZ2	42:BH:133:VAL:HB	1.71	0.55
46:DN:6:PRO:O	46:DN:7:LYS:HG3	2.05	0.55
42:DH:137:ASP:OD1	42:DH:138:LYS:N	2.38	0.55
24:CY:242:VAL:HG13	24:CY:243:ASN:ND2	2.21	0.55
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.37	0.55
1:CA:862:C:H2'	1:CA:863:U:H5'	1.88	0.55
24:CY:254:LEU:HB2	24:CY:255:PRO:HD3	1.89	0.55
1:AA:444:C:H2'	1:AA:445:G:C8	2.41	0.55
42:BH:103:LEU:HG	42:BH:104:GLU:H	1.72	0.55
17:CQ:91:ARG:HH11	17:CQ:91:ARG:HG2	1.72	0.55
1:AA:1406:U:O2'	1:AA:1407:C:H5'	2.06	0.55
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.41	0.55
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.41	0.55
35:BA:221:A:H4'	35:BA:222:A:O5'	2.07	0.55
24:AY:109:PHE:HB2	24:AY:110:PRO:HD2	1.88	0.55
2:AB:16:HIS:CD2	2:AB:210:SER:HA	2.41	0.55
2:AB:16:HIS:HA	2:AB:210:SER:HB2	1.87	0.55
35:DA:666:G:H5''	48:DP:47:ASP:O	2.07	0.55
49:BQ:141:GLN:C	58:BZ:99:TYR:H	2.10	0.55
31:D6:10:LEU:HD22	31:D6:10:LEU:N	2.22	0.55
2:CB:19:HIS:HD1	2:CB:189:ASP:CG	2.10	0.55
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.86	0.55
40:DF:9:ILE:HG22	40:DF:9:ILE:O	2.07	0.55
24:AY:92:GLU:O	24:AY:96:LYS:HE3	2.07	0.55
35:DA:2308:G:O6	35:DA:2310:A:N3	2.40	0.55
41:BG:107:LEU:HD13	41:BG:177:GLY:CA	2.31	0.55
1:CA:508:C:H4'	1:CA:509:A:O5'	2.07	0.55
48:BP:127:ALA:HB3	48:BP:130:PHE:CE2	2.41	0.55
60:DI:52:ARG:O	60:DI:56:LYS:HG3	2.06	0.55
42:DH:96:ALA:CB	42:DH:105:LEU:HA	2.36	0.55
45:BK:89:HIS:O	45:BK:91:PRO:HD3	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:10:PHE:HZ	19:CS:70:LYS:HE2	1.70	0.55
51:BS:101:LEU:O	51:BS:101:LEU:HD22	2.06	0.55
20:CT:57:ARG:HH12	20:CT:102:GLY:HA2	1.70	0.55
38:BD:25:THR:HG23	38:BD:25:THR:O	2.07	0.55
22:CW:64:A:H2'	22:CW:65:G:H8	1.71	0.55
1:AA:403:C:O2'	1:AA:404:U:H5'	2.07	0.55
39:DE:61:ARG:HB3	39:DE:62:PRO:CD	2.37	0.55
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.72	0.55
38:BD:142:VAL:HG22	38:BD:143:HIS:N	2.22	0.55
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.06	0.55
57:BY:68:HIS:ND1	57:BY:70:SER:HB3	2.22	0.55
5:CE:76:ILE:HD11	5:CE:142:LEU:CD2	2.35	0.55
48:BP:71:VAL:HB	48:BP:72:PRO:CD	2.36	0.55
43:BI:4:ILE:O	43:BI:5:LEU:HB3	2.07	0.55
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.88	0.55
51:BS:54:LEU:C	51:BS:56:LEU:H	2.08	0.55
1:CA:1054:C:H3'	1:CA:1054:C:O2	2.06	0.55
35:BA:2485:G:C5'	49:BQ:46:GLN:HE21	2.19	0.55
42:BH:20:ALA:CB	42:BH:21:PRO:CD	2.85	0.55
45:BK:57:ILE:HG23	45:BK:65:PHE:HB2	1.89	0.55
1:CA:627:G:H2'	1:CA:628:G:C8	2.41	0.55
42:DH:41:MET:HE2	42:DH:55:PRO:HD3	1.89	0.55
15:CO:87:ILE:CG2	15:CO:88:ARG:H	2.18	0.55
38:DD:182:LEU:HB2	38:DD:271:ILE:O	2.04	0.55
53:DU:69:CYS:HB3	53:DU:106:PHE:HZ	1.72	0.55
2:CB:92:TYR:HE2	2:CB:151:GLY:HA3	1.70	0.55
1:CA:79:G:N2	1:CA:91:C:H41	2.03	0.55
42:DH:141:VAL:CG1	42:DH:142:GLY:N	2.70	0.55
2:AB:8:LYS:N	2:AB:217:ARG:HH22	2.05	0.55
6:CF:21:LEU:HA	6:CF:24:GLU:OE1	2.05	0.55
35:BA:176:G:C2'	35:BA:177:G:H5'	2.37	0.55
16:CP:28:ARG:NH1	16:CP:29:ASP:OD2	2.40	0.55
52:BT:57:PHE:O	52:BT:59:THR:HG22	2.07	0.55
12:AL:90:VAL:O	12:AL:91:LYS:HB3	2.05	0.55
42:BH:103:LEU:HD12	42:BH:104:GLU:H	1.70	0.55
35:DA:2013:A:H4'	55:DW:96:ILE:HD12	1.89	0.55
35:BA:301:G:H1'	35:BA:302:C:C6	2.41	0.55
4:AD:155:LEU:HB2	4:AD:158:ILE:HG12	1.87	0.55
58:DZ:11:GLU:N	58:DZ:11:GLU:OE2	2.40	0.55
7:AG:73:MET:HA	7:AG:91:VAL:HG23	1.88	0.55
26:B1:86:SER:HA	26:B1:89:GLU:CD	2.27	0.55
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DY:96:ILE:CG2	57:DY:97:ARG:H	2.13	0.55
13:CM:8:GLU:OE2	13:CM:67:GLU:HB2	2.06	0.55
13:CM:8:GLU:C	13:CM:9:ILE:HD12	2.27	0.55
41:DG:154:GLY:O	41:DG:155:MET:HB3	2.06	0.55
41:DG:39:ILE:HA	41:DG:157:ILE:HA	1.89	0.55
35:BA:2302:G:C2'	35:BA:2303:G:H5'	2.37	0.55
2:AB:194:PRO:O	2:AB:196:LEU:N	2.39	0.55
48:DP:147:LEU:HD12	48:DP:148:LEU:HD13	1.89	0.55
35:DA:2207:G:N3	35:DA:2207:G:H2'	2.21	0.55
42:BH:159:GLU:CG	42:BH:160:LYS:N	2.70	0.55
41:DG:107:LEU:HD12	41:DG:177:GLY:O	2.05	0.55
31:B6:19:ARG:H	31:B6:19:ARG:CD	2.20	0.55
31:B6:40:CYS:HA	31:B6:46:HIS:H	1.72	0.55
58:DZ:69:THR:O	58:DZ:70:LEU:HD23	2.05	0.55
5:AE:75:THR:HG23	5:AE:76:ILE:N	2.21	0.55
2:CB:80:ILE:HD11	2:CB:211:ILE:HB	1.89	0.55
35:DA:142:A:H8	35:DA:1595:G:H21	1.53	0.55
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.07	0.55
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.07	0.55
38:BD:71:ASP:CB	38:BD:103:ARG:HH22	2.18	0.55
20:AT:96:GLY:O	20:AT:99:LEU:HG	2.06	0.55
10:CJ:18:ALA:O	10:CJ:22:LYS:HB2	2.06	0.55
3:AC:70:VAL:O	3:AC:105:GLU:HA	2.06	0.55
33:B8:48:PHE:HZ	35:BA:650:C:H5'	1.72	0.55
1:CA:423:G:H2'	1:CA:424:G:C5'	2.37	0.55
27:D2:13:ALA:HA	27:D2:16:LEU:HG	1.88	0.55
45:BK:57:ILE:CG2	45:BK:65:PHE:HB2	2.37	0.55
1:AA:416:G:P	35:DA:2153:G:O3'	2.65	0.55
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.42	0.55
45:DK:62:ASP:O	45:DK:63:ARG:HD2	2.06	0.55
39:BE:11:MET:CB	39:BE:24:THR:HA	2.37	0.55
24:AY:180:LEU:O	24:AY:210:VAL:HG11	2.06	0.55
35:DA:1050:A:C2	35:DA:2751:G:N7	2.75	0.55
43:BI:25:TYR:HE2	43:BI:29:TYR:CD2	2.24	0.55
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.07	0.55
6:AF:21:LEU:HA	6:AF:24:GLU:OE1	2.07	0.55
35:DA:2025:C:O2'	35:DA:2026:C:H5'	2.05	0.55
41:BG:54:GLU:O	41:BG:57:ALA:HB3	2.07	0.55
1:CA:1000:U:H2'	1:CA:1001:A:C8	2.41	0.55
16:AP:39:TYR:O	16:AP:40:ASP:HB2	2.07	0.55
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.41	0.55
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:DR:41:ALA:C	50:DR:43:GLU:H	2.10	0.55
6:AF:100:ASN:HD22	6:AF:100:ASN:N	2.03	0.55
1:AA:336:C:O2'	1:AA:337:C:H5'	2.06	0.55
25:D0:77:ARG:HH22	35:DA:857:C:H5'	1.71	0.55
35:DA:2747:G:O6	35:DA:2755:C:H5''	2.07	0.55
11:CK:99:GLN:OE1	11:CK:105:VAL:HG21	2.06	0.55
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.06	0.55
58:BZ:43:GLU:O	58:BZ:47:VAL:HG23	2.06	0.55
35:DA:2362:G:O2'	35:DA:2363:C:H5'	2.06	0.55
7:AG:6:ARG:HH21	7:AG:94:ARG:HH22	1.53	0.55
36:BB:114:C:O2'	51:BS:46:VAL:HG13	2.07	0.55
25:B0:77:ARG:NH2	35:BA:857:C:H5'	2.22	0.55
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.72	0.55
39:BE:200:GLU:OE2	39:BE:200:GLU:N	2.35	0.55
54:DV:1:MET:HA	54:DV:1:MET:HE2	1.88	0.55
40:BF:179:GLU:H	40:BF:179:GLU:CD	2.10	0.55
1:AA:782:A:H4'	1:AA:1514:C:O2'	2.07	0.55
1:CA:219:C:H2'	1:CA:220:G:O4'	2.06	0.55
35:DA:613:G:H8	35:DA:613:G:H5'	1.71	0.55
35:BA:1576:U:H2'	35:BA:1577:C:H6	1.72	0.55
35:BA:1578:U:H2'	35:BA:1579:A:H5'	1.89	0.55
48:DP:32:THR:O	48:DP:33:ARG:HB3	2.06	0.55
40:DF:22:ALA:C	40:DF:26:ALA:HB2	2.26	0.55
24:AY:93:GLU:HA	24:AY:96:LYS:CD	2.24	0.55
41:BG:46:ALA:HA	41:BG:51:ARG:CB	2.35	0.55
40:BF:53:THR:HG22	40:BF:56:GLU:OE2	2.06	0.55
4:CD:31:CYS:O	4:CD:33:MET:N	2.30	0.55
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	2.07	0.55
48:BP:147:LEU:HD12	48:BP:148:LEU:HD13	1.88	0.55
9:CI:70:LYS:C	9:CI:72:GLY:H	2.09	0.55
45:DK:21:PRO:HB2	45:DK:22:PRO:CD	2.27	0.55
22:AW:4:C:H2'	22:AW:5:G:O4'	2.07	0.55
9:AI:93:ARG:C	9:AI:95:LYS:H	2.10	0.55
24:AY:115:ASN:CG	24:AY:172:LYS:HA	2.26	0.55
58:BZ:38:TYR:HD1	58:BZ:38:TYR:O	1.89	0.55
35:BA:674:G:O2'	40:BF:74:ARG:HD3	2.06	0.55
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.88	0.55
1:AA:878:G:H1'	8:AH:3:THR:HG21	1.88	0.55
24:CY:26:LEU:HD13	24:CY:48:VAL:CG2	2.37	0.55
55:DW:75:TYR:HE1	55:DW:104:THR:HB	1.67	0.55
38:DD:166:GLN:HE21	38:DD:166:GLN:CA	2.19	0.55
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.72	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:6:PHE:HD2	5:CE:36:ASP:N	2.04	0.55
23:AX:17:A:N3	23:AX:17:A:H2'	2.21	0.55
35:DA:1438:U:O2'	35:DA:1439:A:H5'	2.06	0.55
46:DN:46:VAL:O	46:DN:47:ALA:CB	2.53	0.55
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.88	0.55
1:AA:825:G:C1'	8:AH:2:LEU:HD21	2.35	0.55
39:BE:77:ILE:CG2	39:BE:78:LEU:HD23	2.37	0.55
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.06	0.55
12:CL:83:VAL:HG22	12:CL:84:LEU:H	1.72	0.55
26:B1:29:GLY:O	26:B1:30:VAL:CG2	2.55	0.55
12:AL:32:PHE:CD1	12:AL:84:LEU:HD21	2.41	0.55
2:AB:168:THR:HG23	2:AB:192:SER:OG	2.07	0.55
15:CO:87:ILE:CG2	15:CO:88:ARG:N	2.69	0.55
10:AJ:4:ILE:HA	10:AJ:100:THR:HG22	1.87	0.55
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.37	0.55
3:AC:180:ALA:HB1	3:AC:203:PHE:CE1	2.41	0.55
1:AA:1203:C:O2'	1:AA:1204:A:H5'	2.07	0.55
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.22	0.55
5:AE:13:ILE:HA	5:AE:29:GLY:O	2.07	0.55
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.89	0.55
50:BR:41:ALA:C	50:BR:43:GLU:H	2.09	0.55
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.22	0.55
35:BA:2679:A:O2'	35:BA:2680:C:H5'	2.06	0.55
3:AC:155:GLY:HA2	3:AC:164:ARG:O	2.07	0.55
22:AV:50:U:H2'	22:AV:51:U:H6	1.70	0.55
1:CA:337:C:H2'	1:CA:338:A:C8	2.42	0.55
17:CQ:76:LEU:HG	17:CQ:77:VAL:N	2.20	0.55
36:BB:97:G:H2'	36:BB:98:G:H5'	1.89	0.55
1:CA:341:C:H2'	1:CA:342:C:C6	2.41	0.55
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.06	0.55
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.71	0.55
40:BF:198:ALA:C	40:BF:200:GLU:H	2.10	0.55
1:AA:1489:G:H2'	1:AA:1490:C:O4'	2.06	0.55
36:BB:107:G:O2'	36:BB:108:U:H5'	2.07	0.55
35:DA:1560:G:O2'	35:DA:1561:G:H5'	2.06	0.55
3:AC:127:ARG:HD2	3:AC:127:ARG:N	2.22	0.55
1:CA:853:G:O2'	1:CA:854:G:H5'	2.07	0.55
13:CM:44:ARG:HB3	13:CM:46:LYS:HG2	1.88	0.55
35:BA:519:U:H2'	35:BA:520:G:H8	1.72	0.55
35:BA:151:C:O2'	35:BA:152:G:H5'	2.06	0.55
51:BS:97:ARG:NH2	51:BS:98:VAL:CA	2.51	0.55
57:BY:97:ARG:CZ	57:BY:98:VAL:HG23	2.36	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DK:93:ARG:HD2	45:DK:93:ARG:C	2.28	0.55
49:DQ:140:ALA:HA	58:DZ:99:TYR:CE1	2.42	0.55
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.22	0.55
35:BA:875:G:H4'	58:BZ:170:THR:CG2	2.28	0.55
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.86	0.55
24:AY:92:GLU:O	24:AY:96:LYS:HG3	2.07	0.55
41:BG:107:LEU:CD2	41:BG:107:LEU:H	2.08	0.55
41:BG:159:VAL:HG13	41:BG:159:VAL:O	2.07	0.55
41:BG:82:LEU:CD2	41:BG:83:ARG:N	2.70	0.55
53:DU:54:LYS:O	53:DU:58:ARG:HG3	2.07	0.55
48:BP:147:LEU:CG	48:BP:148:LEU:N	2.70	0.55
9:CI:97:LYS:CB	9:CI:98:PRO:HD3	2.36	0.55
31:D6:40:CYS:SG	31:D6:45:LYS:HD2	2.46	0.55
24:AY:215:ASP:HB2	24:AY:291:ARG:NH2	2.22	0.55
35:BA:535:C:O2'	35:BA:536:A:H5'	2.06	0.55
9:CI:104:ARG:O	9:CI:105:ASP:CB	2.54	0.55
51:BS:89:ARG:HD2	51:BS:92:TYR:CA	2.37	0.55
12:AL:55:VAL:CG1	12:AL:56:ALA:H	2.11	0.55
27:B2:58:ALA:O	27:B2:61:LEU:HD23	2.07	0.55
2:CB:42:ILE:HD13	2:CB:203:GLY:HA2	1.88	0.55
35:DA:143:G:H4'	56:DX:35:THR:HG21	1.88	0.55
3:CC:70:VAL:O	3:CC:105:GLU:HA	2.07	0.55
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	2.17	0.55
38:BD:33:LEU:O	38:BD:34:VAL:C	2.43	0.55
22:CV:3:C:H2'	22:CV:4:C:C6	2.40	0.55
39:DE:4:ILE:HG21	39:DE:96:PHE:CE2	2.42	0.55
46:BN:57:ALA:O	46:BN:58:ASP:C	2.44	0.55
49:BQ:55:VAL:HG22	49:BQ:56:ARG:H	1.71	0.55
33:B8:48:PHE:HZ	35:BA:650:C:C5'	2.20	0.55
1:AA:411:A:N6	1:AA:413:G:H21	2.04	0.55
35:DA:2635:C:P	39:DE:77:ILE:HG21	2.47	0.55
45:BK:62:ASP:O	45:BK:63:ARG:HD2	2.06	0.55
11:AK:21:ILE:HD13	11:AK:84:VAL:CG1	2.37	0.55
11:CK:32:ILE:HD12	11:CK:72:ALA:HB2	1.88	0.55
35:BA:833:U:H2'	35:BA:834:C:H6	1.72	0.55
53:BU:34:LYS:HA	53:BU:34:LYS:CE	2.37	0.55
26:D1:29:GLY:O	26:D1:31:GLY:N	2.35	0.55
1:AA:834:C:H2'	1:AA:835:U:C6	2.41	0.55
46:BN:6:PRO:HG2	46:BN:41:ASP:O	2.07	0.55
1:CA:376:G:O2'	1:CA:377:G:H5'	2.07	0.55
46:DN:9:VAL:HG12	46:DN:10:GLU:N	2.22	0.55
1:AA:321:A:H61	1:AA:332:G:H1	1.54	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:85:LYS:HD3	42:DH:141:VAL:HG22	1.89	0.55
6:CF:82:ARG:HH11	6:CF:82:ARG:CB	2.20	0.55
45:DK:136:VAL:HG13	45:DK:136:VAL:O	2.07	0.55
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.42	0.55
1:AA:458:C:H2'	1:AA:460:G:C8	2.41	0.55
34:B9:20:HIS:C	34:B9:22:ARG:H	2.10	0.55
35:BA:963:U:H2'	35:BA:964:C:H6	1.72	0.55
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.22	0.55
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.72	0.55
1:AA:1201:A:H1'	1:AA:1202:G:OP2	2.07	0.55
2:AB:137:ARG:HD3	2:AB:137:ARG:C	2.26	0.55
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.41	0.55
51:DS:97:ARG:HH21	51:DS:98:VAL:CG2	2.20	0.55
33:B8:4:MET:HE1	35:BA:593:G:O4'	2.06	0.55
13:AM:8:GLU:OE2	13:AM:67:GLU:HB2	2.06	0.55
31:B6:9:LEU:C	31:B6:9:LEU:HD23	2.27	0.55
40:BF:2:LYS:O	40:BF:24:LEU:HG	2.05	0.55
40:BF:9:ILE:HG22	40:BF:9:ILE:O	2.06	0.55
16:AP:6:LEU:HB3	16:AP:17:TYR:CD2	2.41	0.55
40:DF:80:ALA:O	40:DF:83:PHE:HB2	2.07	0.55
24:AY:97:LYS:HB3	24:AY:101:LEU:HD13	1.89	0.55
4:AD:9:CYS:O	4:AD:13:ARG:HG3	2.07	0.55
41:BG:114:ILE:C	41:BG:116:ASP:N	2.57	0.55
41:BG:32:PRO:HA	41:BG:162:THR:OG1	2.07	0.55
4:CD:9:CYS:O	4:CD:13:ARG:HG3	2.07	0.55
54:DV:52:VAL:O	54:DV:52:VAL:HG13	2.07	0.55
60:DI:53:ALA:HB1	60:DI:57:ARG:NH2	2.21	0.55
57:BY:2:ARG:C	57:BY:4:LYS:N	2.61	0.55
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.75	0.55
57:DY:7:VAL:CB	57:DY:8:LYS:NZ	2.69	0.55
36:DB:56:G:O2'	36:DB:57:A:OP2	2.25	0.55
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.37	0.55
35:DA:654(L):G:H3'	35:DA:654(L):G:N3	2.22	0.55
35:DA:654(L):G:H2'	35:DA:654(M):C:C4'	2.37	0.55
35:DA:1568:G:C5'	38:DD:61:LEU:HD13	2.34	0.55
39:DE:69:LYS:HZ2	39:DE:89:ASP:HA	1.71	0.55
39:DE:2:LYS:HE2	39:DE:95:ILE:CG2	2.37	0.55
1:AA:389:A:H2'	1:AA:390:C:C5'	2.37	0.55
1:CA:738:C:H2'	1:CA:739:C:C6	2.41	0.55
5:CE:42:GLY:HA2	5:CE:65:ASN:O	2.07	0.55
45:DK:33:ASN:HD21	45:DK:63:ARG:HD3	1.71	0.55
24:AY:258:ILE:HD11	24:AY:279:LEU:HD23	1.89	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:3:LYS:N	10:AJ:74:ILE:O	2.40	0.55
35:DA:2746:U:H5''	42:DH:138:LYS:HE2	1.89	0.55
35:DA:322:A:OP2	40:DF:169:ASN:HB2	2.07	0.55
35:DA:2827:C:O2	35:DA:2827:C:H2'	2.06	0.55
37:BC:66:HIS:HB2	37:BC:189:ILE:CB	2.37	0.55
1:CA:245:C:O2'	1:CA:246:A:H5'	2.06	0.55
47:BO:69:ILE:HD12	47:BO:69:ILE:H	1.72	0.55
1:CA:718:G:H21	18:CR:49:LYS:HZ1	1.53	0.55
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.88	0.55
55:DW:60:ASN:C	55:DW:61:ASN:HD22	2.10	0.55
2:CB:16:HIS:HA	2:CB:210:SER:HB2	1.88	0.55
35:DA:1754:C:OP1	52:DT:96:ARG:NH1	2.40	0.55
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.41	0.55
35:BA:1842:G:H2'	35:BA:1843:C:C6	2.42	0.55
35:BA:760:G:H2'	35:BA:761:A:O4'	2.07	0.55
6:AF:48:LEU:HG	6:AF:57:GLN:HA	1.89	0.55
1:CA:778:G:O2'	1:CA:779:C:H5'	2.07	0.55
35:DA:740:U:H2'	35:DA:741:G:C8	2.42	0.55
39:BE:106:GLY:HA3	39:BE:189:PRO:HB2	1.88	0.55
50:DR:87:TYR:HD1	50:DR:90:ARG:HD2	1.72	0.55
35:DA:2880:C:O2'	50:DR:90:ARG:NH1	2.40	0.55
1:CA:235:C:H2'	1:CA:236:G:H8	1.72	0.55
58:DZ:102:LEU:HD23	58:DZ:104:PHE:CZ	2.42	0.55
30:D5:33:CYS:SG	30:D5:49:CYS:HB2	2.45	0.55
1:AA:376:G:O2'	1:AA:377:G:H5'	2.07	0.55
16:AP:15:PRO:HB3	16:AP:17:TYR:HE1	1.72	0.55
16:AP:19:ILE:HG22	16:AP:36:ILE:HD11	1.88	0.55
53:DU:88:ILE:O	53:DU:88:ILE:CG1	2.55	0.55
56:DX:11:PRO:O	56:DX:13:LEU:HG	2.07	0.55
35:DA:143:G:H1'	56:DX:37:THR:CG2	2.36	0.55
1:CA:878:G:H1'	8:CH:3:THR:HG21	1.89	0.55
38:BD:24:ILE:O	38:BD:24:ILE:HG23	2.07	0.55
35:BA:654(L):G:H2'	35:BA:654(M):C:C4'	2.36	0.55
39:BE:69:LYS:HZ2	39:BE:89:ASP:HA	1.72	0.55
35:DA:1568:G:H5''	38:DD:61:LEU:CD1	2.34	0.55
20:AT:57:ARG:NH1	20:AT:102:GLY:HA2	2.21	0.55
22:CV:2:C:H2'	22:CV:3:C:H5'	1.89	0.55
1:CA:403:C:O2'	1:CA:404:U:H5'	2.05	0.55
39:DE:55:ASN:C	39:DE:57:LYS:N	2.61	0.55
35:BA:812:C:O5'	48:BP:25:SER:O	2.25	0.55
51:BS:33:LYS:HB3	51:BS:34:HIS:CD2	2.42	0.55
35:BA:286:C:C2'	35:BA:287:C:C5'	2.84	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:64:ILE:CD1	38:DD:64:ILE:H	2.18	0.55
27:D2:43:GLN:O	27:D2:44:LEU:CB	2.55	0.55
45:DK:57:ILE:CG2	45:DK:65:PHE:HB2	2.37	0.55
50:DR:78:LYS:O	50:DR:83:ILE:HG12	2.07	0.55
50:BR:104:ARG:HB3	50:BR:104:ARG:HH11	1.72	0.55
35:DA:2682:U:O4	35:DA:2728:U:H1'	2.07	0.55
10:CJ:34:VAL:HG12	10:CJ:35:SER:N	2.21	0.55
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.37	0.55
2:CB:8:LYS:N	2:CB:217:ARG:HH22	2.05	0.55
35:BA:271(A):A:H2	35:BA:272(D):G:N3	2.04	0.55
6:CF:17:SER:C	6:CF:21:LEU:HD13	2.28	0.55
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.72	0.55
21:CU:6:ARG:NE	21:CU:15:ARG:HH21	2.04	0.55
23:CX:24:A:C3'	24:CY:200:ARG:NH1	2.69	0.55
18:CR:66:LEU:CD1	18:CR:70:ILE:HD11	2.37	0.55
18:AR:66:LEU:HD11	18:AR:70:ILE:HD11	1.89	0.55
1:CA:601:C:H2'	1:CA:602:A:H8	1.70	0.55
1:CA:160:A:H2'	1:CA:161:A:O4'	2.07	0.55
46:DN:96:GLU:CD	46:DN:96:GLU:H	2.10	0.55
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.89	0.55
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.06	0.55
5:CE:28:PHE:N	5:CE:28:PHE:CD1	2.74	0.55
43:BI:82:ARG:HG3	43:BI:82:ARG:HH11	1.72	0.55
42:DH:143:GLN:HE21	42:DH:147:ASN:HD21	1.53	0.55
51:BS:97:ARG:HH21	51:BS:98:VAL:HG22	1.72	0.54
1:AA:57:G:O6	1:AA:356:A:N1	2.41	0.54
48:DP:28:GLY:C	48:DP:29:LYS:HD2	2.27	0.54
40:BF:3:GLU:CA	40:BF:24:LEU:HG	2.33	0.54
16:AP:67:THR:OG1	16:AP:70:ALA:HB2	2.07	0.54
33:B8:53:PRO:C	33:B8:55:ALA:N	2.58	0.54
47:BO:23:ARG:HG2	47:BO:23:ARG:HH11	1.72	0.54
41:DG:51:ARG:NE	41:DG:51:ARG:CA	2.64	0.54
54:DV:21:ARG:HH11	54:DV:21:ARG:HG2	1.72	0.54
19:AS:62:ILE:HG23	19:AS:62:ILE:O	2.07	0.54
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.42	0.54
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.89	0.54
51:BS:25:ARG:O	51:BS:39:ILE:HA	2.06	0.54
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.06	0.54
35:BA:1075:C:H2'	35:BA:1076:C:H6	1.71	0.54
24:CY:88:LYS:HE2	24:CY:91:LEU:HD23	1.88	0.54
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.06	0.54
19:AS:20:LEU:CA	19:AS:23:ASN:HD22	2.14	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:93:GLU:HG2	20:CT:93:GLU:O	2.07	0.54
8:AH:84:ARG:HG2	8:AH:84:ARG:HH11	1.71	0.54
3:AC:89:GLU:HG3	3:AC:93:LYS:HZ1	1.66	0.54
38:BD:106:ILE:HD11	38:BD:143:HIS:CD2	2.41	0.54
24:CY:284:TYR:HA	24:CY:287:GLU:HB2	1.90	0.54
35:DA:1722:A:C2	35:DA:1740:G:H8	2.25	0.54
35:DA:773:U:C5'	38:DD:47:GLY:HA3	2.36	0.54
46:DN:65:LYS:HB2	46:DN:69:GLN:CG	2.37	0.54
1:CA:314:C:O2'	1:CA:315:A:H5'	2.07	0.54
48:BP:95:VAL:HB	48:BP:100:LEU:HD21	1.87	0.54
50:BR:4:LEU:C	50:BR:6:SER:N	2.59	0.54
26:B1:30:VAL:H	35:BA:2396:G:H4'	1.71	0.54
35:DA:517:C:O2'	55:DW:18:ARG:NH2	2.40	0.54
57:DY:31:LEU:HD22	57:DY:31:LEU:N	2.21	0.54
50:BR:80:PHE:O	50:BR:85:PRO:HD3	2.07	0.54
36:BB:40:U:O2'	36:BB:45:A:N6	2.40	0.54
46:DN:7:LYS:O	46:DN:9:VAL:N	2.40	0.54
53:BU:79:PHE:CE2	53:BU:83:LEU:HD13	2.42	0.54
4:AD:83:SER:HA	4:AD:89:THR:CG2	2.37	0.54
34:B9:27:CYS:HB3	34:B9:32:HIS:HB2	1.89	0.54
1:AA:1423:G:O2'	1:AA:1424:C:H5'	2.07	0.54
24:CY:304:PRO:O	24:CY:305:ILE:HG22	2.07	0.54
1:AA:164:U:H2'	1:AA:165:C:H6	1.72	0.54
2:AB:139:LYS:O	2:AB:143:GLU:HG2	2.07	0.54
1:AA:718:G:H21	18:AR:49:LYS:HZ1	1.52	0.54
35:DA:412:A:H2'	35:DA:413:C:H5'	1.89	0.54
35:DA:1853:A:N1	35:DA:2087:G:H1'	2.22	0.54
4:AD:70:ILE:HG12	4:AD:71:SER:N	2.23	0.54
35:BA:271(J):C:H2'	35:BA:271(K):U:H5''	1.89	0.54
9:AI:18:PHE:HD1	9:AI:62:TYR:HD2	1.54	0.54
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.42	0.54
37:DC:79:LYS:HE2	37:DC:97:GLU:OE2	2.06	0.54
35:BA:1655:A:C8	35:BA:1656:C:C5	2.95	0.54
35:BA:752:A:O2'	35:BA:753:C:OP2	2.20	0.54
1:CA:562:C:H1'	12:CL:15:ARG:HB3	1.88	0.54
1:AA:88:A:H2'	1:AA:88:A:N3	2.21	0.54
7:CG:73:MET:HA	7:CG:91:VAL:HG23	1.87	0.54
49:DQ:114:ALA:C	49:DQ:116:GLU:H	2.11	0.54
54:BV:1:MET:HA	54:BV:1:MET:HE2	1.89	0.54
42:DH:99:VAL:O	42:DH:99:VAL:HG13	2.06	0.54
24:AY:73:LEU:O	24:AY:73:LEU:HD22	2.07	0.54
7:CG:57:GLU:N	7:CG:57:GLU:OE2	2.40	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:249:VAL:HG22	24:CY:250:ARG:N	2.22	0.54
1:CA:88:A:H2'	1:CA:88:A:N3	2.22	0.54
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.07	0.54
51:DS:97:ARG:HH21	51:DS:98:VAL:HG22	1.71	0.54
45:DK:88:ALA:O	45:DK:89:HIS:HB2	2.06	0.54
1:AA:1330:U:H4'	13:AM:23:TYR:CE2	2.42	0.54
31:B6:28:ARG:CB	31:B6:28:ARG:HH11	2.04	0.54
31:B6:52:VAL:HG12	31:B6:53:LYS:N	2.22	0.54
52:BT:27:THR:O	52:BT:28:VAL:HG23	2.06	0.54
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	1.87	0.54
26:D1:3:LYS:CG	26:D1:4:VAL:N	2.68	0.54
1:AA:559:A:OP2	5:AE:126:ARG:NH2	2.40	0.54
37:BC:78:ALA:CB	37:BC:82:LYS:HD2	2.37	0.54
35:BA:1827:C:H2'	35:BA:1828:G:C5'	2.38	0.54
24:CY:32:ARG:CA	45:DK:29:GLN:HE22	2.20	0.54
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.89	0.54
19:AS:66:MET:HA	19:AS:69:HIS:HD2	1.72	0.54
48:BP:62:LEU:HD22	48:BP:62:LEU:H	1.72	0.54
54:BV:25:LEU:H	54:BV:92:THR:HG21	1.72	0.54
38:DD:28:GLU:HB3	38:DD:29:PRO:CD	2.26	0.54
32:B7:12:ARG:HD3	32:B7:46:VAL:HG21	1.88	0.54
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.12	0.54
12:AL:47:LYS:HE3	12:AL:47:LYS:HA	1.89	0.54
19:AS:20:LEU:HA	19:AS:23:ASN:HB3	1.89	0.54
54:BV:99:ILE:O	54:BV:99:ILE:HG12	2.08	0.54
24:AY:154:VAL:HB	24:AY:168:GLN:O	2.07	0.54
5:AE:6:PHE:HD2	5:AE:36:ASP:N	2.05	0.54
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.36	0.54
10:CJ:61:GLU:CG	14:CN:58:LYS:HE2	2.34	0.54
35:BA:2808:U:C2'	35:BA:2809:A:H5'	2.37	0.54
57:DY:68:HIS:ND1	57:DY:70:SER:HB3	2.22	0.54
8:CH:85:ARG:HH11	8:CH:85:ARG:HG3	1.73	0.54
35:BA:2855:C:H2'	35:BA:2856:C:C6	2.36	0.54
11:AK:27:ASN:HB2	11:AK:55:LYS:CD	2.36	0.54
35:BA:2635:C:P	39:BE:77:ILE:HG21	2.47	0.54
35:BA:2199:A:N3	35:BA:2199:A:H2'	2.22	0.54
15:AO:87:ILE:CG2	15:AO:88:ARG:H	2.20	0.54
24:AY:135:MET:HE2	24:AY:191:ARG:HH12	1.71	0.54
3:CC:67:THR:HG23	3:CC:102:ASN:HB2	1.89	0.54
2:CB:82:ARG:HB2	2:CB:92:TYR:HE1	1.72	0.54
35:DA:1515:G:H2'	35:DA:1516:C:H6	1.71	0.54
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:74:ASP:HA	6:CF:77:ARG:HH12	1.72	0.54
42:BH:154:PRO:O	42:BH:155:SER:CB	2.55	0.54
34:B9:11:CYS:SG	34:B9:32:HIS:ND1	2.81	0.54
35:DA:1484:G:C2'	35:DA:1485:G:H5''	2.36	0.54
12:CL:37:CYS:SG	12:CL:81:SER:HB2	2.47	0.54
18:AR:66:LEU:CD1	18:AR:70:ILE:HD11	2.37	0.54
41:DG:55:LYS:C	41:DG:57:ALA:H	2.09	0.54
1:AA:341:C:O2'	1:AA:342:C:H5'	2.07	0.54
42:BH:103:LEU:HB2	42:BH:123:PHE:CD2	2.42	0.54
35:DA:2742:C:O2'	35:DA:2743:C:H5'	2.06	0.54
55:BW:84:ARG:HB2	55:BW:96:ILE:HG22	1.89	0.54
35:DA:135:G:O2'	35:DA:136:G:H5'	2.07	0.54
37:DC:96:GLY:C	37:DC:98:GLU:H	2.10	0.54
42:BH:72:ILE:O	42:BH:75:ALA:HB3	2.07	0.54
1:AA:853:G:O2'	1:AA:854:G:H5'	2.07	0.54
40:BF:39:TRP:CH2	40:BF:106:ARG:HD3	2.42	0.54
50:DR:53:HIS:HA	50:DR:56:LYS:HB2	1.89	0.54
1:AA:612:C:O2'	1:AA:613:C:H5'	2.07	0.54
35:DA:1111:A:N3	35:DA:1112:G:H1'	2.22	0.54
55:DW:24:ILE:HG21	55:DW:36:LEU:HD21	1.89	0.54
1:AA:1262:C:H42	1:AA:1273:G:H1	1.55	0.54
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB3	1.90	0.54
31:B6:26:ASN:ND2	31:B6:32:ASN:HD21	2.05	0.54
35:DA:588:U:H1'	40:DF:90:PHE:CD1	2.42	0.54
4:AD:18:LYS:HA	4:AD:33:MET:HG2	1.89	0.54
52:DT:84:GLN:O	52:DT:85:LYS:HB2	2.07	0.54
35:DA:2286:A:H4'	35:DA:2287:A:O4'	2.07	0.54
38:BD:79:VAL:HG11	38:BD:111:LEU:HD12	1.88	0.54
25:B0:14:ARG:CZ	25:B0:14:ARG:HB2	2.38	0.54
53:BU:80:ILE:O	53:BU:84:LYS:HB2	2.08	0.54
24:CY:88:LYS:N	24:CY:89:PRO:CD	2.71	0.54
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.25	0.54
4:AD:138:TYR:CD2	4:AD:138:TYR:C	2.81	0.54
35:BA:654(N):G:H2'	35:BA:654(O):G:O4'	2.08	0.54
51:DS:85:VAL:CG2	51:DS:106:ARG:HB2	2.38	0.54
39:BE:47:VAL:HG21	39:BE:86:PRO:HD3	1.89	0.54
8:AH:1:MET:CE	8:AH:3:THR:HG23	2.38	0.54
22:CW:53:G:H22	22:CW:61:C:H42	1.54	0.54
39:BE:61:ARG:HB3	39:BE:62:PRO:CD	2.37	0.54
39:DE:52:LEU:HD12	39:DE:53:PRO:HD2	1.88	0.54
50:DR:4:LEU:C	50:DR:6:SER:N	2.61	0.54
35:DA:1437:C:H6	35:DA:1437:C:H5'	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:55:ASN:C	39:BE:57:LYS:N	2.60	0.54
5:AE:48:ALA:O	5:AE:50:GLU:N	2.41	0.54
35:DA:2837:G:H2'	35:DA:2838:G:H8	1.72	0.54
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.08	0.54
50:DR:80:PHE:O	50:DR:85:PRO:HD3	2.07	0.54
47:BO:64:ARG:CZ	52:BT:70:VAL:HG21	2.37	0.54
35:BA:2837:G:H2'	35:BA:2838:G:H8	1.72	0.54
35:BA:2682:U:O4	35:BA:2728:U:H1'	2.07	0.54
36:DB:12:C:C4'	36:DB:13:A:OP1	2.56	0.54
15:AO:87:ILE:CG2	15:AO:88:ARG:N	2.70	0.54
50:BR:78:LYS:O	50:BR:83:ILE:HG12	2.08	0.54
58:DZ:4:ARG:HH11	58:DZ:4:ARG:CB	2.19	0.54
22:CV:31:A:H2'	22:CV:32:U:H6	1.73	0.54
2:CB:73:THR:HA	2:CB:94:ASN:O	2.07	0.54
11:AK:19:ALA:CB	11:AK:32:ILE:HG23	2.37	0.54
42:BH:85:LYS:HD3	42:BH:141:VAL:HG22	1.88	0.54
48:BP:135:LEU:HD13	48:BP:135:LEU:O	2.07	0.54
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.06	0.54
35:BA:1924:C:O2'	35:BA:1925:C:H5'	2.07	0.54
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.88	0.54
35:BA:225:A:H2'	35:BA:226:G:H5'	1.90	0.54
35:BA:2888:C:H2'	35:BA:2889:C:C6	2.42	0.54
42:BH:103:LEU:CD1	42:BH:104:GLU:H	2.19	0.54
42:BH:103:LEU:HG	42:BH:104:GLU:N	2.22	0.54
35:BA:958:U:H5''	49:BQ:14:ARG:CD	2.37	0.54
35:DA:1501:C:H1'	38:DD:100:GLY:HA2	1.88	0.54
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.08	0.54
35:BA:2848:G:H3'	52:BT:95:ARG:O	2.07	0.54
32:B7:38:GLY:O	35:BA:458:G:H5''	2.08	0.54
1:CA:711:G:O2'	1:CA:712:A:H5'	2.07	0.54
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.07	0.54
35:DA:1192:G:O2'	35:DA:1193:G:H5'	2.06	0.54
58:DZ:94:GLU:OE1	58:DZ:94:GLU:HA	2.07	0.54
12:AL:92:ASP:O	12:AL:94:PRO:HD3	2.08	0.54
35:DA:1027:A:C2	35:DA:2488:A:H5'	2.42	0.54
35:BA:1329:U:H5''	35:BA:1330:C:H5	1.72	0.54
35:DA:478:A:C6	35:DA:480:A:C6	2.95	0.54
35:BA:478:A:C6	35:BA:480:A:C6	2.96	0.54
41:BG:16:ARG:HB2	41:BG:17:PRO:CD	2.37	0.54
1:CA:428:G:H4'	1:CA:429:U:O5'	2.07	0.54
53:DU:91:ASP:OD2	53:DU:96:ALA:N	2.40	0.54
1:CA:559:A:OP2	5:CE:126:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:68:C:C2'	22:AW:69:G:H5'	2.37	0.54
24:AY:253:HIS:CE1	24:AY:255:PRO:HB2	2.42	0.54
46:BN:132:ALA:O	46:BN:133:GLN:HB3	2.07	0.54
45:BK:93:ARG:HD2	45:BK:93:ARG:C	2.28	0.54
39:BE:4:ILE:CG1	39:BE:28:ALA:HB1	2.38	0.54
39:BE:4:ILE:HG21	39:BE:96:PHE:CE2	2.41	0.54
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.38	0.54
1:CA:389:A:H2'	1:CA:390:C:C5'	2.37	0.54
5:AE:50:GLU:HB3	5:AE:53:LEU:HD13	1.89	0.54
10:CJ:62:HIS:N	10:CJ:62:HIS:CD2	2.75	0.54
55:DW:29:LEU:HD21	55:DW:33:ARG:NH2	2.22	0.54
50:DR:104:ARG:HB3	50:DR:104:ARG:HH11	1.73	0.54
45:DK:109:LYS:HA	45:DK:112:MET:HE2	1.89	0.54
4:CD:83:SER:HA	4:CD:89:THR:CG2	2.38	0.54
22:CV:31:A:H2'	22:CV:32:U:C6	2.43	0.54
1:CA:254:G:HO2'	1:CA:255:G:H5'	1.72	0.54
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.23	0.54
16:AP:75:ARG:C	16:AP:77:ALA:H	2.10	0.54
6:AF:17:SER:C	6:AF:21:LEU:HD13	2.28	0.54
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.22	0.54
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.07	0.54
18:CR:66:LEU:HD11	18:CR:70:ILE:HD11	1.89	0.54
35:DA:1100:C:H2'	35:DA:1101:U:H5'	1.90	0.54
35:DA:2887:U:O2'	35:DA:2888:C:H5'	2.07	0.54
35:DA:2849:U:OP2	52:DT:95:ARG:NH1	2.40	0.54
16:AP:58:TYR:HD1	16:AP:59:TRP:N	2.06	0.54
35:DA:2350:C:H2'	35:DA:2351:G:O4'	2.07	0.54
38:DD:75:ILE:O	38:DD:118:VAL:HG23	2.08	0.54
2:AB:142:LEU:HD11	2:AB:146:GLN:HE21	1.72	0.54
1:AA:952:U:H2'	1:AA:953:G:H8	1.72	0.54
35:BA:1322:A:OP1	55:BW:11:ARG:HG3	2.08	0.54
26:B1:49:VAL:O	26:B1:59:THR:HA	2.06	0.54
26:B1:69:LYS:HE3	35:BA:372:G:OP1	2.07	0.54
14:CN:31:ARG:HG3	14:CN:31:ARG:HH11	1.71	0.54
35:DA:1048:A:H2'	35:DA:1048:A:N3	2.22	0.54
18:CR:22:VAL:O	18:CR:22:VAL:HG12	2.08	0.54
46:BN:96:GLU:H	46:BN:96:GLU:CD	2.09	0.54
19:AS:24:ALA:O	19:AS:25:LYS:HB2	2.06	0.54
35:BA:2759:G:H5'	35:BA:2759:G:H8	1.71	0.54
31:B6:30:THR:O	31:B6:31:PRO:C	2.46	0.54
35:BA:2392:A:H2	35:BA:2424:C:N4	2.04	0.54
41:DG:126:ASP:O	41:DG:128:ARG:NE	2.41	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:11:VAL:HG12	40:DF:12:LEU:H	1.73	0.54
35:DA:590:A:OP1	40:DF:95:ARG:NH1	2.41	0.54
1:CA:409:G:H5'	4:CD:25:ARG:HB2	1.89	0.54
54:DV:5:VAL:CG2	54:DV:37:VAL:HG23	2.37	0.54
54:BV:4:ILE:HB	54:BV:39:LEU:O	2.08	0.54
57:BY:26:LYS:CG	57:BY:27:VAL:H	2.15	0.54
9:CI:18:PHE:HD1	9:CI:62:TYR:HD2	1.54	0.54
45:BK:95:LYS:HG2	45:BK:137:GLU:CB	2.25	0.54
24:CY:33:LEU:CD2	35:DA:1095:A:H61	2.21	0.54
22:AW:5:G:N2	22:AW:68:C:N4	2.54	0.54
57:BY:31:LEU:HD22	57:BY:31:LEU:N	2.22	0.54
54:DV:19:LYS:NZ	54:DV:20:LEU:H	2.03	0.54
37:BC:37:PHE:O	37:BC:39:GLU:N	2.40	0.54
10:AJ:24:VAL:HG12	10:AJ:28:ARG:HD2	1.89	0.54
35:DA:2036:C:H6	35:DA:2036:C:C5'	2.13	0.54
24:CY:344:LEU:HD23	24:CY:344:LEU:N	2.16	0.54
42:DH:60:ARG:NH1	42:DH:64:LEU:HD21	2.16	0.54
35:DA:1081:U:O2'	45:DK:117:THR:HG21	2.07	0.54
7:CG:102:ARG:O	7:CG:106:GLN:HG3	2.07	0.54
20:CT:91:LEU:O	20:CT:94:ALA:HB3	2.08	0.54
35:BA:773:U:C5'	38:BD:47:GLY:HA3	2.37	0.54
35:DA:37:C:H2'	35:DA:38:A:C8	2.43	0.54
35:DA:8:A:H2'	35:DA:9:U:H5	1.66	0.54
5:AE:147:ASP:HB3	5:AE:150:ARG:NH2	2.20	0.54
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.72	0.54
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	1.89	0.54
22:CV:59:U:C2'	22:CV:60:U:H5'	2.37	0.54
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.38	0.54
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.40	0.54
1:AA:1001:A:OP2	35:DA:2116:G:O6	2.24	0.54
35:BA:1050:A:C2	35:BA:1051:G:H1'	2.43	0.54
6:CF:24:GLU:HG3	6:CF:25:ILE:N	2.21	0.54
1:AA:1260:C:OP1	1:AA:1284:C:H4'	2.08	0.54
37:DC:65:PRO:HG2	37:DC:189:ILE:HA	1.89	0.54
24:AY:232:MET:O	24:AY:248:ALA:HB3	2.07	0.54
1:CA:275:G:O2'	1:CA:276:G:H5'	2.08	0.54
1:AA:164:U:H2'	1:AA:165:C:C6	2.42	0.54
1:CA:164:U:H2'	1:CA:165:C:C6	2.43	0.54
53:BU:104:GLN:CD	53:BU:104:GLN:H	2.10	0.54
1:AA:337:C:H2'	1:AA:338:A:C8	2.42	0.54
35:DA:1531:C:H3'	35:DA:1532:C:C5'	2.36	0.54
41:BG:88:ILE:HG13	41:BG:89:GLY:N	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.23	0.54
42:BH:68:THR:O	42:BH:72:ILE:HG12	2.07	0.54
41:BG:101:ILE:HD13	41:BG:102:PHE:N	2.22	0.54
35:BA:20:C:O2'	35:BA:21:A:H5'	2.08	0.54
38:BD:231:HIS:ND1	38:BD:232:PRO:HD2	2.20	0.54
13:CM:79:LYS:O	13:CM:82:MET:HB3	2.07	0.54
1:AA:895:G:H2'	1:AA:896:C:C6	2.41	0.54
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.43	0.54
1:CA:533:A:O2'	1:CA:534:U:H5''	2.08	0.54
42:BH:66:GLY:HA2	42:BH:69:ARG:HB3	1.88	0.54
35:BA:1654:A:P	50:BR:3:HIS:HB2	2.47	0.54
3:CC:5:ILE:O	3:CC:5:ILE:HD12	2.07	0.54
35:DA:2358:G:H1	48:DP:55:ARG:HH22	1.56	0.54
2:AB:113:HIS:O	2:AB:117:GLU:HG3	2.06	0.54
55:BW:24:ILE:HG21	55:BW:36:LEU:HD21	1.89	0.54
36:DB:28:C:O2'	36:DB:29:A:H5'	2.08	0.54
35:BA:2250:G:OP1	49:BQ:85:LYS:HE3	2.08	0.54
35:BA:1048:A:N3	35:BA:1048:A:H2'	2.22	0.54
40:DF:164:ARG:HG2	40:DF:164:ARG:HH11	1.72	0.54
35:BA:2362:G:O2'	35:BA:2363:C:H5'	2.08	0.54
36:DB:38:C:O2	36:DB:48:A:H1'	2.08	0.54
31:B6:9:LEU:O	31:B6:25:LYS:HA	2.07	0.54
31:D6:11:LEU:O	31:D6:23:THR:HA	2.07	0.54
30:B5:3:LYS:HG3	30:B5:4:HIS:N	2.18	0.54
35:BA:2302:G:H1'	41:BG:128:ARG:NH2	2.22	0.54
41:BG:36:LYS:HE3	41:BG:160:VAL:HG21	1.90	0.54
24:AY:27:LYS:HA	24:AY:30:GLU:HB3	1.89	0.54
56:DX:55:ASN:HB2	56:DX:80:ILE:HG12	1.90	0.54
57:BY:7:VAL:HB	57:BY:8:LYS:HZ2	1.73	0.54
57:DY:2:ARG:O	57:DY:4:LYS:N	2.40	0.54
57:DY:28:LYS:HB2	57:DY:38:ILE:N	2.19	0.54
9:AI:70:LYS:C	9:AI:72:GLY:H	2.10	0.54
28:B3:40:THR:OG1	28:B3:43:ILE:HG12	2.07	0.54
1:AA:1223:C:P	19:AS:78:ARG:HH21	2.30	0.54
40:DF:113:ALA:HB1	40:DF:186:ILE:HG21	1.89	0.54
38:DD:71:ASP:CB	38:DD:103:ARG:HH22	2.17	0.54
41:DG:124:SER:HB2	41:DG:131:TYR:HE1	1.66	0.54
46:DN:55:VAL:HG21	46:DN:127:ASP:H	1.73	0.54
28:B3:44:ARG:C	28:B3:48:GLU:HG3	2.28	0.54
2:CB:71:VAL:HG23	2:CB:164:VAL:HG22	1.89	0.54
1:CA:7:G:H5'	1:CA:298:A:H5'	1.88	0.54
58:DZ:40:ASP:HB3	58:DZ:43:GLU:CB	2.36	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:47:ASP:O	16:AP:49:LEU:N	2.41	0.54
1:AA:1054:C:H3'	1:AA:1054:C:O2	2.07	0.54
42:DH:41:MET:HG2	42:DH:54:ARG:HA	1.88	0.54
39:BE:184:VAL:HG12	39:BE:185:LYS:H	1.72	0.54
2:AB:82:ARG:HB2	2:AB:92:TYR:HE1	1.73	0.54
1:AA:1458:G:O2'	1:AA:1459:C:H5'	2.07	0.54
46:BN:7:LYS:O	46:BN:9:VAL:N	2.40	0.54
8:AH:20:TYR:CE2	8:AH:75:ARG:HB3	2.42	0.54
1:AA:1248:A:C2'	1:AA:1249:C:H5'	2.38	0.54
1:AA:966:G:O2'	1:AA:967:C:O5'	2.25	0.54
27:B2:16:LEU:HB3	27:B2:20:GLU:HG2	1.88	0.54
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.07	0.54
3:AC:155:GLY:O	3:AC:196:LEU:HD13	2.08	0.54
1:AA:977:A:HO2'	1:AA:978:A:H5'	1.72	0.54
35:BA:1853:A:N1	35:BA:2087:G:H1'	2.22	0.54
22:CW:68:C:H2'	22:CW:69:G:C8	2.42	0.54
35:BA:1056:G:H4'	35:BA:1086:A:H8	1.73	0.54
35:DA:1109:C:N3	35:DA:1110:G:N2	2.55	0.54
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.71	0.54
58:BZ:5:LEU:HD11	58:BZ:43:GLU:HB3	1.89	0.54
36:DB:30:C:H4'	36:DB:58:A:H2	1.72	0.54
40:DF:192:LEU:HD23	40:DF:193:VAL:N	2.22	0.54
36:BB:50:G:OP2	51:BS:62:LYS:HB3	2.08	0.54
1:CA:775:G:O2'	1:CA:776:G:H5'	2.07	0.54
35:BA:1065:U:O2'	35:BA:1066:U:H5'	2.08	0.54
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.07	0.54
35:BA:271(D):G:O2'	35:BA:271(E):U:H5'	2.07	0.54
35:BA:271(T):C:H6	35:BA:271(T):C:C5'	2.18	0.54
19:CS:66:MET:HA	19:CS:69:HIS:HD2	1.73	0.54
28:D3:56:VAL:HG12	28:D3:57:GLU:N	2.23	0.54
58:BZ:150:LEU:HD22	58:BZ:150:LEU:C	2.28	0.54
35:DA:2302:G:C2'	35:DA:2303:G:H5'	2.37	0.54
24:AY:88:LYS:C	24:AY:90:GLU:H	2.10	0.54
4:AD:11:LEU:HD23	4:AD:11:LEU:H	1.73	0.54
58:BZ:108:PRO:HB3	58:BZ:141:VAL:O	2.07	0.54
52:DT:32:TYR:CD2	52:DT:81:PRO:O	2.61	0.54
35:DA:1171:G:H5''	35:DA:1173:G:H5''	1.90	0.54
5:AE:67:VAL:HG21	5:AE:140:ARG:HA	1.89	0.54
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.46	0.54
45:BK:136:VAL:HG13	45:BK:136:VAL:O	2.07	0.54
35:BA:942:G:H5'	48:BP:35:HIS:HB2	1.90	0.54
2:AB:224:GLN:C	2:AB:226:ARG:H	2.11	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.38	0.54
12:AL:48:PRO:C	12:AL:49:ASN:HD22	2.11	0.54
12:CL:48:PRO:C	12:CL:49:ASN:HD22	2.11	0.54
35:BA:1021:A:C3'	35:BA:1021:A:C8	2.89	0.54
13:CM:27:LYS:O	13:CM:30:ALA:HB3	2.08	0.54
2:CB:36:ARG:H	2:CB:41:ILE:CD1	2.16	0.54
35:DA:2283:C:H2'	35:DA:2284:C:C5'	2.35	0.54
34:B9:15:LYS:HZ1	35:BA:2753:A:H1'	1.71	0.54
43:BI:14:ASP:H	43:BI:17:GLN:NE2	2.05	0.54
28:B3:46:ASN:O	28:B3:50:VAL:HG22	2.07	0.54
4:AD:162:LEU:HD12	4:AD:181:MET:HE3	1.89	0.54
33:B8:21:LYS:HD3	33:B8:48:PHE:CZ	2.43	0.54
38:BD:64:ILE:H	38:BD:64:ILE:CD1	2.18	0.54
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.08	0.54
39:BE:48:GLN:NE2	39:BE:78:LEU:HD11	2.22	0.54
47:DO:87:ILE:HG21	47:DO:91:LEU:HA	1.90	0.54
35:DA:2262:U:O2'	35:DA:2263:C:H5''	2.07	0.54
47:DO:64:ARG:CZ	52:DT:70:VAL:HG21	2.38	0.54
3:CC:11:ARG:HH11	3:CC:11:ARG:HG2	1.72	0.54
45:BK:103:GLN:HA	45:BK:106:GLU:OE1	2.08	0.54
35:DA:1906:G:O2'	35:DA:1907:G:H5'	2.07	0.54
52:BT:11:GLU:H	52:BT:11:GLU:CD	2.11	0.54
1:CA:82:U:O2'	1:CA:83:U:H5'	2.07	0.54
35:BA:1614:A:N1	55:BW:91:GLY:HA2	2.23	0.54
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.55	0.54
42:DH:154:PRO:O	42:DH:155:SER:CB	2.56	0.54
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.08	0.54
25:B0:65:GLY:HA2	25:B0:84:LEU:CD1	2.37	0.54
35:BA:1479:G:H5'	35:BA:1558:A:C2	2.42	0.54
5:CE:13:ILE:HA	5:CE:29:GLY:O	2.08	0.54
35:DA:1924:C:O2'	35:DA:1925:C:H5'	2.07	0.54
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	2.07	0.54
16:AP:72:ARG:NH2	16:AP:73:LEU:HD21	2.23	0.54
1:CA:164:U:H2'	1:CA:165:C:H6	1.73	0.54
35:DA:2672:G:H3'	35:DA:2673:G:H5''	1.88	0.54
35:DA:2010:G:H5''	55:DW:42:ARG:HB2	1.88	0.54
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.08	0.54
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.42	0.54
2:CB:142:LEU:HD11	2:CB:146:GLN:HE21	1.71	0.54
37:DC:75:LEU:HB3	37:DC:120:MET:HA	1.89	0.54
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.07	0.54
35:BA:373:U:H2'	35:BA:374:A:H8	1.72	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:21:VAL:HG23	39:BE:21:VAL:O	2.08	0.54
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.08	0.54
35:DA:1654:A:P	50:DR:3:HIS:HB2	2.47	0.54
15:CO:25:THR:HG21	15:CO:70:LEU:HB2	1.89	0.54
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.08	0.54
57:DY:96:ILE:HD12	57:DY:99:CYS:CB	2.37	0.54
49:DQ:141:GLN:C	58:DZ:99:TYR:H	2.11	0.54
49:DQ:141:GLN:H	58:DZ:99:TYR:CB	2.13	0.54
58:DZ:119:GLU:OE1	58:DZ:122:ARG:HB2	2.08	0.54
27:D2:68:ARG:O	27:D2:69:ARG:HG3	2.08	0.54
35:DA:1885:A:H5'	35:DA:1885:A:H8	1.73	0.54
31:D6:23:THR:HG21	35:DA:2419:U:H5'	1.90	0.54
30:D5:35:GLU:HB2	30:D5:49:CYS:HB2	1.89	0.54
40:DF:25:PRO:HG3	40:DF:119:ARG:CB	2.38	0.54
4:CD:18:LYS:HA	4:CD:33:MET:HG2	1.88	0.54
48:DP:112:LEU:HD22	48:DP:114:ILE:HD12	1.88	0.54
37:BC:86:ALA:HB1	37:BC:94:VAL:HG11	1.90	0.54
41:BG:21:ARG:HD2	41:BG:21:ARG:C	2.27	0.54
35:BA:1841:U:O2'	38:BD:244:ARG:NH2	2.41	0.54
57:BY:40:GLU:HA	57:BY:40:GLU:OE2	2.07	0.54
5:AE:76:ILE:HD11	5:AE:142:LEU:CD2	2.35	0.54
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.90	0.54
49:BQ:134:ARG:HH12	58:BZ:119:GLU:CD	2.10	0.54
1:CA:620:C:C2	4:CD:135:LEU:HG	2.42	0.54
20:AT:91:LEU:O	20:AT:94:ALA:HB3	2.07	0.54
22:AW:6:G:O2'	22:AW:7:A:H5'	2.07	0.54
35:DA:1081:U:H2'	35:DA:1082:U:C6	2.42	0.54
35:DA:18:C:H4'	53:DU:23:GLY:O	2.08	0.54
43:BI:122:GLU:HB3	43:BI:126:TYR:OH	2.08	0.54
35:DA:1107:G:H2'	35:DA:1108:U:C6	2.43	0.54
1:CA:17:U:H2'	1:CA:18:C:H6	1.67	0.54
12:CL:32:PHE:CD1	12:CL:84:LEU:HD21	2.42	0.54
35:DA:1980:G:O2'	35:DA:1982:C:OP2	2.26	0.54
15:AO:43:LEU:C	15:AO:45:VAL:H	2.11	0.54
6:AF:40:VAL:HG23	6:AF:63:TYR:HD1	1.72	0.54
3:CC:67:THR:HG23	3:CC:102:ASN:CB	2.38	0.54
1:CA:1060:C:O4'	10:CJ:52:GLY:HA2	2.08	0.54
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.38	0.54
42:DH:85:LYS:HD3	42:DH:133:VAL:HB	1.88	0.54
14:AN:3:ARG:HB3	14:AN:3:ARG:HH11	1.71	0.54
40:DF:165:ARG:HG3	40:DF:165:ARG:HH11	1.73	0.54
1:CA:1502:A:H2	1:CA:1505:G:H1	1.54	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:B0:65:GLY:HA2	25:B0:84:LEU:HD11	1.89	0.54
37:DC:66:HIS:HB2	37:DC:189:ILE:CB	2.38	0.54
1:CA:599:C:O2'	1:CA:600:C:H5'	2.07	0.54
1:CA:1001(A):G:H2'	1:CA:1002:G:C8	2.42	0.54
35:DA:1005:C:H2'	35:DA:1006:C:H6	1.73	0.54
42:DH:68:THR:O	42:DH:72:ILE:HG12	2.08	0.54
35:BA:1501:C:H1'	38:BD:100:GLY:HA2	1.88	0.54
9:CI:106:ALA:O	9:CI:108:VAL:HG22	2.08	0.54
38:BD:132:PRO:HD3	38:BD:190:TYR:CZ	2.42	0.54
24:CY:121:GLN:HE21	24:CY:166:TYR:HD2	1.55	0.54
35:DA:271(C):C:H2'	35:DA:271(D):G:H8	1.73	0.54
13:AM:9:ILE:HD13	41:BG:146:TYR:CZ	2.43	0.54
30:D5:2:ALA:N	35:DA:2015:A:N3	2.56	0.54
40:DF:199:TRP:O	40:DF:203:GLN:HG2	2.08	0.54
24:AY:88:LYS:N	24:AY:89:PRO:HD2	2.23	0.54
1:AA:542:G:H2'	1:AA:543:C:C6	2.43	0.54
36:BB:28:C:O2'	36:BB:29:A:H5'	2.08	0.54
1:CA:411:A:N6	1:CA:413:G:H21	2.05	0.54
2:AB:178:ARG:HH21	8:AH:74:PRO:HG3	1.73	0.54
54:BV:39:LEU:HA	54:BV:47:VAL:HG22	1.90	0.54
35:BA:271(M):G:C3'	35:BA:271(N):U:H5''	2.38	0.54
42:DH:88:LEU:N	42:DH:88:LEU:HD22	2.22	0.54
37:DC:86:ALA:HB1	37:DC:94:VAL:HG11	1.90	0.54
35:DA:1899:G:H21	35:DA:1902:C:H5	1.55	0.54
54:DV:25:LEU:H	54:DV:92:THR:HG21	1.72	0.54
46:DN:132:ALA:O	46:DN:133:GLN:HB3	2.08	0.54
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.31	0.54
51:DS:20:ARG:HG3	51:DS:25:ARG:HD2	1.90	0.54
9:AI:48:GLU:O	9:AI:50:LEU:N	2.40	0.54
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.46	0.54
12:CL:47:LYS:CB	12:CL:48:PRO:CD	2.79	0.54
12:CL:47:LYS:HA	12:CL:47:LYS:HE3	1.89	0.54
33:B8:59:LYS:HG3	48:BP:50:ARG:HB2	1.89	0.54
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.28	0.54
38:BD:92:ILE:HG22	38:BD:93:ALA:N	2.21	0.54
8:AH:82:HIS:CE1	8:AH:84:ARG:HB2	2.43	0.54
1:CA:1446:U:H1'	1:CA:1456:G:O6	2.08	0.54
46:DN:58:ASP:OD2	46:DN:59:LYS:HG2	2.07	0.54
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.48	0.54
48:DP:138:LEU:O	48:DP:140:ALA:N	2.40	0.54
35:DA:855:G:H1	35:DA:922:U:H3	1.56	0.54
51:DS:33:LYS:HB3	51:DS:34:HIS:CD2	2.43	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2262:U:C2'	35:BA:2263:C:C5'	2.84	0.54
45:BK:119:ASP:HB3	45:BK:121:GLU:CD	2.27	0.54
39:BE:48:GLN:NE2	39:BE:78:LEU:CD1	2.70	0.54
1:AA:674:G:N2	11:AK:116:HIS:HB2	2.23	0.54
42:DH:41:MET:CG	42:DH:55:PRO:HD3	2.36	0.54
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.71	0.54
45:DK:102:GLU:HG2	45:DK:103:GLN:N	2.23	0.54
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.61	0.54
1:AA:1001(A):G:H2'	1:AA:1002:G:C8	2.42	0.54
35:DA:2201:C:O2'	35:DA:2202:C:H5'	2.08	0.54
35:DA:691:C:O2'	35:DA:692:C:H5'	2.07	0.54
1:CA:1277:C:O2'	1:CA:1279:A:H8	1.91	0.54
18:AR:88:LYS:O	18:AR:88:LYS:HE2	2.07	0.54
16:CP:39:TYR:O	16:CP:40:ASP:HB2	2.07	0.54
1:CA:521:G:O2'	1:CA:522:C:H5'	2.08	0.54
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.08	0.54
35:BA:1345:C:H2'	35:BA:1346:G:C8	2.43	0.54
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.23	0.54
2:CB:16:HIS:CD2	2:CB:210:SER:HA	2.42	0.54
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.73	0.54
35:DA:2639:A:H2'	35:DA:2640:G:H5'	1.89	0.54
24:CY:125:GLY:O	24:CY:126:GLY:C	2.46	0.54
48:DP:98:GLU:O	48:DP:101:VAL:HG12	2.07	0.54
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.42	0.54
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.08	0.54
2:CB:113:HIS:O	2:CB:117:GLU:HG3	2.07	0.54
4:CD:49:ARG:HD3	4:CD:50:ARG:H	1.73	0.54
13:AM:48:LEU:N	13:AM:48:LEU:HD23	2.23	0.54
35:BA:2639:A:H2'	35:BA:2640:G:H5'	1.90	0.54
48:DP:46:LYS:HG2	48:DP:52:GLU:OE2	2.08	0.54
58:DZ:126:VAL:HG12	58:DZ:163:LEU:HA	1.89	0.54
35:DA:271(T):C:H6	35:DA:271(T):C:C5'	2.20	0.54
24:AY:57:ARG:O	24:AY:61:THR:HG22	2.08	0.54
41:BG:114:ILE:HA	41:BG:140:ILE:CD1	2.37	0.54
57:BY:2:ARG:N	57:BY:5:MET:HE3	2.23	0.54
1:AA:980:C:H2'	1:AA:981:U:H5'	1.90	0.54
42:BH:96:ALA:CB	42:BH:105:LEU:HA	2.38	0.54
41:DG:107:LEU:HD12	41:DG:177:GLY:C	2.29	0.54
24:AY:223:LYS:O	24:AY:226:GLU:HB2	2.07	0.54
53:BU:76:TYR:CE2	53:BU:80:ILE:HG13	2.42	0.54
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.43	0.54
51:BS:93:LYS:O	51:BS:93:LYS:HG3	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:10:LEU:O	27:D2:14:ARG:HG3	2.08	0.54
45:BK:131:ALA:C	45:BK:133:SER:H	2.11	0.54
19:CS:20:LEU:HA	19:CS:23:ASN:ND2	2.15	0.54
35:BA:2646:C:OP2	35:BA:2732:G:O2'	2.21	0.54
28:D3:40:THR:OG1	28:D3:43:ILE:HG12	2.08	0.54
4:CD:96:LEU:HD23	4:CD:139:ARG:NH1	2.23	0.54
51:BS:85:VAL:O	51:BS:106:ARG:HA	2.08	0.54
26:B1:3:LYS:HG3	26:B1:4:VAL:N	2.16	0.54
39:BE:82:ARG:O	39:BE:84:PHE:N	2.38	0.54
8:AH:87:SER:HA	8:AH:93:VAL:HG23	1.89	0.54
22:CV:20:U:H3'	22:CV:21:A:C5'	2.38	0.54
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.88	0.54
35:BA:1722:A:C2	35:BA:1740:G:H8	2.26	0.54
46:BN:55:VAL:HG21	46:BN:127:ASP:H	1.73	0.54
24:CY:41:ASP:N	24:CY:42:PRO:CD	2.68	0.54
38:BD:166:GLN:CA	38:BD:166:GLN:HE21	2.19	0.54
35:BA:773:U:H4'	38:BD:47:GLY:CA	2.36	0.54
10:AJ:48:THR:HG22	10:AJ:49:VAL:N	2.22	0.54
28:D3:45:GLY:HA2	28:D3:48:GLU:OE2	2.08	0.54
1:AA:716:A:N3	11:AK:117:ASN:O	2.41	0.54
11:CK:88:GLY:O	11:CK:91:ARG:HB2	2.08	0.54
42:DH:20:ALA:HB1	42:DH:21:PRO:HD3	1.90	0.54
28:B3:11:SER:HB3	35:BA:988:A:P	2.47	0.54
45:DK:82:ALA:HB2	45:DK:99:ILE:CD1	2.37	0.54
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.23	0.54
59:D4:46:ASN:ND2	59:D4:47:VAL:N	2.55	0.54
10:AJ:56:HIS:C	10:AJ:58:ASP:H	2.10	0.54
53:BU:50:ARG:HH22	54:BV:72:VAL:HG12	1.73	0.54
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.43	0.54
42:BH:138:LYS:O	42:BH:141:VAL:N	2.38	0.54
46:DN:10:GLU:OE2	46:DN:11:PRO:HD2	2.07	0.54
35:BA:2827:C:O2	35:BA:2827:C:H2'	2.08	0.54
1:CA:858:G:O6	1:CA:869:G:H3'	2.08	0.54
35:DA:2846:G:P	52:DT:54:ARG:HB2	2.47	0.54
26:D1:19:GLN:HB2	26:D1:35:THR:HG22	1.88	0.54
3:CC:22:TRP:CZ3	3:CC:24:ALA:HB2	2.41	0.54
24:AY:315:VAL:HG21	24:AY:320:TYR:CD2	2.43	0.54
17:CQ:56:VAL:O	17:CQ:77:VAL:HB	2.07	0.54
35:DA:826:U:H2'	35:DA:828:U:O4'	2.08	0.54
35:DA:1056:G:H4'	35:DA:1086:A:H8	1.73	0.54
1:AA:711:G:O2'	1:AA:712:A:H5'	2.08	0.54
35:DA:2094:G:OP1	60:DI:22:LYS:HD2	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:110:C:O2'	1:AA:111:G:O5'	2.25	0.54
35:BA:1756:G:H4'	35:BA:1758:G:O4'	2.08	0.54
11:AK:127:LYS:HE2	11:AK:127:LYS:HA	1.90	0.54
18:AR:22:VAL:HG12	18:AR:22:VAL:O	2.08	0.54
45:DK:27:LEU:N	45:DK:27:LEU:HD23	2.23	0.54
37:DC:47:LEU:H	37:DC:47:LEU:HD23	1.73	0.54
46:DN:26:LEU:HD11	46:DN:30:ILE:HD11	1.90	0.54
26:D1:81:LYS:HG2	35:DA:271(H):G:H4'	1.89	0.53
31:B6:11:LEU:O	31:B6:23:THR:HA	2.08	0.53
48:BP:32:THR:O	48:BP:33:ARG:HB3	2.08	0.53
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.88	0.53
41:DG:130:ASN:HB3	41:DG:160:VAL:HA	1.90	0.53
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.73	0.53
41:BG:139:LEU:HD23	41:BG:139:LEU:N	2.23	0.53
35:BA:359:A:H2'	35:BA:360:G:O4'	2.08	0.53
54:DV:19:LYS:HZ3	54:DV:19:LYS:HA	1.73	0.53
51:DS:17:ARG:O	51:DS:19:LYS:N	2.41	0.53
57:DY:8:LYS:HG2	57:DY:13:VAL:HG11	1.90	0.53
1:AA:956:U:O2'	1:AA:957:U:H5'	2.08	0.53
35:BA:1081:U:H2'	35:BA:1082:U:C6	2.43	0.53
38:DD:34:VAL:O	38:DD:35:LYS:HD3	2.08	0.53
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.39	0.53
51:DS:74:ALA:O	51:DS:77:ALA:HB3	2.08	0.53
48:BP:125:VAL:O	48:BP:145:PRO:HD2	2.08	0.53
48:BP:140:ALA:O	48:BP:141:ALA:CB	2.55	0.53
2:CB:111:ARG:HG2	2:CB:111:ARG:HH11	1.72	0.53
11:AK:58:PRO:HD3	11:AK:89:ALA:HB1	1.91	0.53
10:AJ:62:HIS:N	10:AJ:62:HIS:CD2	2.76	0.53
45:DK:119:ASP:HB3	45:DK:121:GLU:CD	2.28	0.53
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.43	0.53
12:AL:105:TYR:C	12:AL:107:ALA:H	2.11	0.53
2:AB:166:ASP:HB3	2:AB:169:LYS:CB	2.38	0.53
35:BA:2476:A:C2	35:BA:2477:C:C4	2.96	0.53
3:CC:180:ALA:HB1	3:CC:203:PHE:CE1	2.42	0.53
53:DU:79:PHE:CE2	53:DU:83:LEU:HD13	2.42	0.53
45:BK:82:ALA:HB2	45:BK:99:ILE:CD1	2.37	0.53
42:BH:85:LYS:HD3	42:BH:133:VAL:HB	1.89	0.53
35:DA:2201:C:H2'	35:DA:2202:C:C6	2.43	0.53
21:AU:6:ARG:NE	21:AU:15:ARG:HH21	2.05	0.53
35:DA:858:U:O2	35:DA:2268:A:H2'	2.08	0.53
43:BI:109:ILE:HD13	43:BI:109:ILE:H	1.71	0.53
35:BA:2846:G:P	52:BT:54:ARG:HB2	2.47	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:443:C:H2'	1:CA:444:C:H6	1.74	0.53
35:DA:2850:A:H2'	35:DA:2851:A:C8	2.43	0.53
1:AA:443:C:H2'	1:AA:444:C:H6	1.73	0.53
1:AA:148:G:H2'	1:AA:149:A:H8	1.71	0.53
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.41	0.53
19:CS:41:VAL:O	19:CS:44:MET:SD	2.66	0.53
25:B0:77:ARG:HH22	35:BA:857:C:H5'	1.73	0.53
35:BA:2849:U:OP2	52:BT:95:ARG:NH1	2.42	0.53
35:BA:724:U:O2'	35:BA:725:G:H5'	2.08	0.53
35:DA:1842:G:H2'	35:DA:1843:C:C6	2.43	0.53
1:AA:577:G:H2'	1:AA:578:C:H6	1.71	0.53
35:BA:1388:G:O2'	35:BA:1389:G:H5'	2.09	0.53
42:BH:77:LYS:HA	42:BH:80:SER:HB2	1.89	0.53
1:CA:118:U:O4	1:CA:288:A:H2'	2.07	0.53
27:D2:33:MET:O	27:D2:34:GLU:C	2.45	0.53
58:DZ:150:LEU:HD22	58:DZ:171:ILE:HD11	1.91	0.53
33:D8:33:ASN:CB	33:D8:36:LYS:HD2	2.37	0.53
60:DI:90:GLY:O	60:DI:121:LYS:NZ	2.38	0.53
35:DA:2015:A:H5'	55:DW:92:ARG:NH2	2.23	0.53
40:DF:28:ILE:O	40:DF:30:PRO:HD3	2.08	0.53
41:DG:64:THR:HG23	41:DG:65:GLY:N	2.23	0.53
54:DV:39:LEU:O	54:DV:40:LEU:HG	2.08	0.53
35:DA:271(P):C:C5'	60:DI:46:ALA:HB2	2.39	0.53
9:CI:48:GLU:O	9:CI:50:LEU:N	2.40	0.53
8:CH:123:GLU:O	8:CH:126:LYS:HB3	2.08	0.53
51:DS:93:LYS:HG3	51:DS:93:LYS:O	2.08	0.53
12:AL:55:VAL:HG13	12:AL:68:ALA:O	2.08	0.53
24:CY:54:ARG:HH11	24:CY:54:ARG:CG	2.19	0.53
45:BK:88:ALA:O	45:BK:89:HIS:HB2	2.07	0.53
48:DP:10:PRO:CD	48:DP:11:GLY:H	2.20	0.53
19:CS:62:ILE:O	19:CS:62:ILE:HG23	2.08	0.53
35:DA:1209:G:H21	35:DA:1210:A:H62	1.54	0.53
41:DG:131:TYR:HB3	41:DG:159:VAL:CG2	2.38	0.53
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.61	0.53
46:DN:17:ASP:OD2	46:DN:56:ASN:HB3	2.08	0.53
35:BA:2188:C:H2'	35:BA:2189:U:C1'	2.38	0.53
60:DI:10:GLU:O	60:DI:12:LEU:CD2	2.55	0.53
35:BA:2201:C:H2'	35:BA:2202:C:C6	2.44	0.53
3:CC:100:ALA:O	3:CC:101:LEU:HB2	2.09	0.53
40:BF:32:LEU:HD11	40:BF:105:VAL:HG13	1.90	0.53
40:BF:29:ASN:H	40:BF:112:MET:HE3	1.74	0.53
1:CA:1375:A:H2'	1:CA:1376:U:C6	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.23	0.53
48:DP:135:LEU:HD13	48:DP:135:LEU:O	2.09	0.53
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.90	0.53
39:DE:120:TRP:CE2	39:DE:155:LYS:HD3	2.42	0.53
35:DA:2543:G:H2'	35:DA:2544:G:H8	1.72	0.53
33:B8:43:GLN:O	33:B8:44:LYS:HD2	2.08	0.53
43:BI:65:ALA:HB1	43:BI:132:PRO:HB2	1.91	0.53
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.44	0.53
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.08	0.53
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	2.08	0.53
35:BA:519:U:H2'	35:BA:520:G:C8	2.42	0.53
2:CB:14:GLY:O	2:CB:15:VAL:HG13	2.08	0.53
11:AK:120:ARG:HH11	11:AK:120:ARG:HG3	1.73	0.53
1:AA:36:C:O3'	12:AL:123:LYS:HA	2.08	0.53
6:CF:6:VAL:C	6:CF:7:ASN:HD22	2.11	0.53
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	1.90	0.53
35:DA:1991:U:H2'	35:DA:1992:G:H5''	1.89	0.53
35:DA:347:A:H2'	35:DA:348:G:H8	1.74	0.53
35:DA:256:A:H2'	35:DA:257:A:C8	2.43	0.53
7:CG:70:LYS:HB3	7:CG:96:GLN:HG2	1.90	0.53
35:BA:2061:G:H5''	35:BA:2503:A:C2	2.43	0.53
13:CM:48:LEU:N	13:CM:48:LEU:HD23	2.23	0.53
58:BZ:41:LEU:C	58:BZ:41:LEU:HD13	2.28	0.53
52:DT:1:MET:HG3	52:DT:2:ASN:H	1.72	0.53
35:DA:271(D):G:O2'	35:DA:271(E):U:H5'	2.07	0.53
58:BZ:124:ILE:HG12	58:BZ:125:LEU:N	2.23	0.53
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.71	0.53
27:B2:35:LEU:O	27:B2:39:ALA:HB2	2.09	0.53
48:DP:127:ALA:HB3	48:DP:130:PHE:CE2	2.43	0.53
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.00	0.53
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.38	0.53
37:DC:37:PHE:O	37:DC:39:GLU:HG3	2.09	0.53
52:BT:6:LEU:O	52:BT:6:LEU:HD23	2.09	0.53
24:AY:115:ASN:OD1	24:AY:172:LYS:HA	2.09	0.53
1:AA:959:A:H2'	1:AA:960:U:C4'	2.39	0.53
40:BF:40:GLN:OE1	40:BF:184:TYR:HB2	2.08	0.53
20:CT:57:ARG:HH12	20:CT:102:GLY:CA	2.20	0.53
43:BI:126:TYR:O	43:BI:141:LYS:HA	2.08	0.53
10:AJ:18:ALA:O	10:AJ:22:LYS:HB2	2.08	0.53
46:BN:46:VAL:O	46:BN:47:ALA:CB	2.57	0.53
11:CK:59:TYR:CZ	11:CK:63:LEU:HD12	2.43	0.53
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:22:THR:HB	46:DN:25:ARG:HB2	1.89	0.53
46:DN:25:ARG:CG	46:DN:25:ARG:HH11	2.21	0.53
8:CH:97:VAL:CG1	8:CH:98:LYS:N	2.72	0.53
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.89	0.53
2:CB:17:PHE:CD1	2:CB:44:LEU:HD11	2.42	0.53
24:CY:10:LEU:HB2	24:CY:14:ARG:HH11	1.74	0.53
35:DA:2115:G:H3'	35:DA:2116:G:H5'	1.89	0.53
40:DF:187:VAL:HG13	48:DP:5:ASP:O	2.09	0.53
1:AA:925:G:H4'	1:AA:1502:A:N1	2.23	0.53
35:DA:2131:G:H5''	35:DA:2132:U:H5''	1.89	0.53
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.43	0.53
22:CW:71:G:H5'	22:CW:71:G:H8	1.72	0.53
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.73	0.53
35:DA:626:U:H3	48:DP:105:LEU:HB3	1.73	0.53
35:BA:469:G:O2'	35:BA:470:A:H5''	2.09	0.53
2:AB:17:PHE:CD1	2:AB:44:LEU:HD11	2.43	0.53
53:DU:104:GLN:H	53:DU:104:GLN:CD	2.11	0.53
1:AA:777:A:H2'	1:AA:778:G:H8	1.73	0.53
35:BA:557:U:O2'	35:BA:558:G:H5'	2.08	0.53
7:AG:6:ARG:O	7:AG:6:ARG:HG2	2.08	0.53
35:DA:1427:A:H4'	35:DA:1428:C:O5'	2.07	0.53
35:BA:1844:C:O2'	35:BA:1845:G:H5'	2.09	0.53
35:DA:1481:U:H5'	35:DA:1482:G:OP2	2.08	0.53
35:DA:576:U:H2'	35:DA:577:G:C8	2.42	0.53
17:CQ:80:GLY:C	17:CQ:82:MET:H	2.12	0.53
52:DT:66:VAL:O	52:DT:66:VAL:HG12	2.07	0.53
53:DU:89:GLU:OE1	53:DU:89:GLU:N	2.42	0.53
38:BD:75:ILE:O	38:BD:118:VAL:HG23	2.09	0.53
57:DY:97:ARG:HG3	57:DY:97:ARG:HH11	1.74	0.53
33:D8:53:PRO:C	33:D8:55:ALA:N	2.59	0.53
41:DG:109:VAL:HG11	41:DG:142:PRO:HG3	1.91	0.53
31:D6:25:LYS:HD2	33:D8:34:TRP:CZ2	2.43	0.53
52:DT:28:VAL:HG22	52:DT:46:GLU:HA	1.91	0.53
1:AA:9:G:H2'	1:AA:10:A:C8	2.44	0.53
42:BH:158:HIS:CE1	42:BH:169:VAL:O	2.62	0.53
53:BU:90:VAL:O	53:BU:92:ARG:N	2.32	0.53
57:DY:2:ARG:O	57:DY:4:LYS:HG3	2.07	0.53
57:DY:2:ARG:N	57:DY:5:MET:HG2	2.23	0.53
57:DY:8:LYS:CD	57:DY:8:LYS:H	2.18	0.53
58:BZ:111:VAL:HG22	58:BZ:112:ARG:N	2.24	0.53
24:CY:54:ARG:CD	24:CY:101:LEU:HD21	2.31	0.53
10:AJ:40:LEU:CD2	10:AJ:40:LEU:H	2.15	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:95:LEU:HD13	38:BD:97:TYR:CE1	2.43	0.53
51:DS:101:LEU:HD13	51:DS:101:LEU:N	2.22	0.53
52:BT:33:LYS:HZ2	52:BT:74:ARG:HH21	1.54	0.53
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.17	0.53
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.56	0.53
58:DZ:74:VAL:HG13	58:DZ:86:VAL:HG12	1.90	0.53
1:CA:424:G:H2'	1:CA:425:G:C8	2.36	0.53
39:DE:48:GLN:HE21	39:DE:78:LEU:HD12	1.69	0.53
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.91	0.53
42:DH:25:LYS:HA	42:DH:33:LEU:O	2.08	0.53
35:BA:2201:C:O2'	35:BA:2202:C:H5'	2.08	0.53
55:DW:29:LEU:HD11	55:DW:33:ARG:HE	1.73	0.53
13:CM:108:ARG:HH12	13:CM:111:LYS:HB2	1.73	0.53
42:BH:41:MET:CG	42:BH:55:PRO:HD3	2.38	0.53
1:CA:1472:U:O2'	1:CA:1473:A:H5'	2.08	0.53
12:AL:83:VAL:HG22	12:AL:84:LEU:H	1.72	0.53
1:AA:614:A:C2	1:AA:627:G:C2	2.97	0.53
35:DA:2511:U:H2'	35:DA:2512:C:C6	2.43	0.53
45:DK:103:GLN:HA	45:DK:106:GLU:OE1	2.08	0.53
35:BA:2481:G:O2'	35:BA:2482:G:P	2.67	0.53
10:AJ:75:ILE:CG1	10:AJ:76:ASN:H	2.21	0.53
45:BK:102:GLU:HG2	45:BK:103:GLN:N	2.24	0.53
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.38	0.53
10:CJ:3:LYS:N	10:CJ:74:ILE:O	2.41	0.53
7:CG:155:ARG:O	7:CG:156:TRP:HD1	1.92	0.53
36:BB:65:C:H2'	36:BB:109:C:H41	1.74	0.53
25:D0:84:LEU:H	25:D0:84:LEU:HD12	1.73	0.53
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.74	0.53
33:B8:12:LYS:HE2	35:BA:249:C:O2	2.09	0.53
30:D5:6:VAL:HG13	30:D5:7:PRO:HD2	1.91	0.53
4:CD:203:VAL:O	4:CD:203:VAL:HG12	2.08	0.53
35:DA:225:A:H2'	35:DA:226:G:H5'	1.91	0.53
35:DA:909:A:H2'	35:DA:912:C:H5	1.73	0.53
1:CA:169:C:C2'	1:CA:170:U:H5'	2.38	0.53
7:AG:70:LYS:HB3	7:AG:96:GLN:HG2	1.90	0.53
1:AA:892:A:H2'	1:AA:893:C:C6	2.43	0.53
1:CA:1262:C:H42	1:CA:1273:G:H1	1.57	0.53
19:AS:58:VAL:O	19:AS:58:VAL:HG23	2.09	0.53
25:B0:28:GLY:O	25:B0:66:VAL:HG13	2.08	0.53
26:D1:86:SER:HB2	26:D1:90:ILE:CG1	2.34	0.53
1:CA:1330:U:H4'	13:CM:23:TYR:CE2	2.44	0.53
40:BF:125:LEU:N	40:BF:125:LEU:HD22	2.24	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:D5:3:LYS:HG3	30:D5:4:HIS:N	2.19	0.53
38:BD:242:ARG:O	38:BD:243:GLY:C	2.45	0.53
57:BY:10:GLY:HA2	57:BY:27:VAL:CG1	2.35	0.53
35:BA:494:G:O2'	35:BA:495:G:H5'	2.08	0.53
52:BT:35:LYS:HZ3	52:BT:41:ARG:HH21	1.54	0.53
1:CA:959:A:H2'	1:CA:960:U:C4'	2.39	0.53
19:CS:14:HIS:O	19:CS:18:LYS:HE2	2.09	0.53
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.38	0.53
24:CY:353:ALA:HA	24:CY:356:ARG:NE	2.23	0.53
37:BC:44:HIS:HA	37:BC:175:VAL:N	2.17	0.53
39:DE:7:VAL:HG22	39:DE:27:LEU:HB3	1.91	0.53
35:DA:773:U:H4'	38:DD:47:GLY:CA	2.36	0.53
5:CE:57:LYS:HG2	5:CE:61:TYR:HE2	1.73	0.53
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.08	0.53
35:DA:2598:A:OP1	38:DD:235:GLY:HA3	2.08	0.53
12:CL:105:TYR:O	12:CL:107:ALA:N	2.41	0.53
35:BA:2598:A:OP1	38:BD:235:GLY:HA3	2.09	0.53
35:BA:715:G:H2'	35:BA:716:A:O4'	2.09	0.53
53:DU:106:PHE:O	53:DU:110:VAL:HG23	2.09	0.53
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.26	0.53
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.90	0.53
35:DA:2584:U:C2	35:DA:2585:U:H5	2.26	0.53
1:AA:1502:A:H2	1:AA:1505:G:N2	2.05	0.53
7:AG:148:ASN:O	7:AG:150:ALA:N	2.41	0.53
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.24	0.53
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.08	0.53
12:AL:81:SER:O	12:AL:82:VAL:CB	2.56	0.53
22:CV:63:G:H8	22:CV:63:G:H5'	1.74	0.53
1:CA:274:A:H4'	1:CA:275:G:OP1	2.08	0.53
45:BK:112:MET:N	45:BK:113:PRO:CD	2.72	0.53
4:AD:145:GLU:HG2	4:AD:184:LYS:NZ	2.23	0.53
35:BA:1058:G:H5''	45:BK:1:MET:SD	2.49	0.53
40:BF:198:ALA:C	40:BF:200:GLU:N	2.62	0.53
29:B4:64:LYS:HA	29:B4:64:LYS:HE3	1.91	0.53
35:BA:1268:A:H2'	35:BA:1269:A:O4'	2.08	0.53
9:AI:10:ARG:HD3	9:AI:75:ASP:HB3	1.91	0.53
39:DE:94:GLU:HG2	39:DE:177:PRO:HB3	1.91	0.53
4:AD:99:SER:O	4:AD:140:VAL:HG23	2.09	0.53
38:BD:40:THR:HG22	38:BD:41:GLY:N	2.22	0.53
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.24	0.53
35:DA:203:C:H3'	35:DA:204:A:H5''	1.90	0.53
36:DB:107:G:O2'	36:DB:108:U:H5'	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.43	0.53
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.73	0.53
11:CK:127:LYS:HA	11:CK:127:LYS:HE2	1.90	0.53
26:B1:88:LYS:CE	26:B1:92:LYS:HB2	2.39	0.53
35:DA:612:C:C3'	35:DA:613:G:H5''	2.37	0.53
30:D5:40:LYS:HZ2	30:D5:46:CYS:HB3	1.73	0.53
35:DA:2315:G:N2	41:DG:128:ARG:HH12	2.04	0.53
30:B5:33:CYS:SG	30:B5:49:CYS:HB2	2.48	0.53
41:BG:33:ARG:O	41:BG:162:THR:HG23	2.08	0.53
52:DT:31:SER:OG	52:DT:43:GLN:N	2.42	0.53
28:B3:2:PRO:HB2	28:B3:59:VAL:H	1.73	0.53
28:B3:4:LEU:HA	28:B3:57:GLU:O	2.09	0.53
28:B3:2:PRO:CG	28:B3:58:VAL:HG12	2.39	0.53
48:BP:111:ARG:HA	48:BP:128:HIS:ND1	2.24	0.53
45:DK:19:PRO:O	45:DK:22:PRO:HD2	2.09	0.53
54:BV:21:ARG:HH11	54:BV:21:ARG:HG2	1.73	0.53
35:BA:1063:G:O2'	45:BK:87:GLY:HA3	2.08	0.53
2:CB:224:GLN:C	2:CB:226:ARG:H	2.11	0.53
8:CH:1:MET:CE	8:CH:3:THR:HG23	2.39	0.53
48:DP:7:ARG:HG2	48:DP:7:ARG:NH1	2.23	0.53
52:DT:128:GLU:O	52:DT:129:ARG:C	2.47	0.53
35:BA:1209:G:H21	35:BA:1210:A:H62	1.57	0.53
35:BA:1107:G:H2'	35:BA:1108:U:C6	2.44	0.53
46:BN:17:ASP:OD2	46:BN:56:ASN:HB3	2.08	0.53
35:BA:390:A:N6	48:BP:71:VAL:HG21	2.22	0.53
10:AJ:61:GLU:CG	14:AN:58:LYS:HE2	2.36	0.53
1:CA:877:C:OP1	8:CH:88:LYS:HD3	2.08	0.53
8:CH:82:HIS:CE1	8:CH:84:ARG:HB2	2.44	0.53
48:DP:100:LEU:H	48:DP:100:LEU:CD2	2.22	0.53
58:DZ:45:ASP:OD2	58:DZ:49:ARG:HG2	2.09	0.53
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.09	0.53
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.89	0.53
42:DH:18:GLU:HG3	42:DH:25:LYS:HG3	1.90	0.53
35:DA:118:A:H5'	35:DA:119:A:C8	2.41	0.53
7:CG:148:ASN:O	7:CG:150:ALA:N	2.42	0.53
7:CG:77:SER:O	7:CG:78:ARG:HB2	2.09	0.53
16:CP:15:PRO:HB3	16:CP:17:TYR:HE1	1.74	0.53
1:CA:834:C:H2'	1:CA:835:U:H6	1.73	0.53
3:AC:67:THR:HG23	3:AC:102:ASN:CB	2.38	0.53
35:DA:2199:A:N3	35:DA:2199:A:H2'	2.23	0.53
6:AF:97:PHE:HB2	18:AR:32:ARG:HH21	1.71	0.53
10:AJ:8:LEU:HD22	10:AJ:96:ILE:HG22	1.89	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.91	0.53
23:CX:23:G:N1	24:CY:128:GLU:OE2	2.42	0.53
18:CR:88:LYS:HE2	18:CR:88:LYS:O	2.08	0.53
47:DO:69:ILE:HD12	47:DO:69:ILE:H	1.73	0.53
12:CL:126:LYS:C	12:CL:128:ALA:H	2.12	0.53
2:CB:231:GLU:HB2	2:CB:232:PRO:CD	2.39	0.53
1:AA:562:C:H1'	12:AL:15:ARG:HB3	1.90	0.53
43:BI:105:HIS:C	43:BI:107:VAL:H	2.12	0.53
4:CD:155:LEU:HB2	4:CD:158:ILE:HG12	1.89	0.53
25:B0:54:GLY:O	25:B0:56:ASP:N	2.42	0.53
25:D0:28:GLY:O	25:D0:66:VAL:HG13	2.09	0.53
38:BD:159:ALA:HB1	38:BD:198:ASN:O	2.09	0.53
39:DE:40:GLU:OE1	39:DE:40:GLU:N	2.41	0.53
49:DQ:141:GLN:HB2	58:DZ:99:TYR:CD2	2.42	0.53
58:DZ:101:PRO:HA	58:DZ:123:ASP:HB3	1.89	0.53
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.17	0.53
31:D6:11:LEU:HD21	31:D6:26:ASN:H	1.71	0.53
60:DI:90:GLY:O	60:DI:121:LYS:HG3	2.08	0.53
40:BF:3:GLU:CB	40:BF:24:LEU:HD23	2.39	0.53
35:BA:481:G:HO2'	35:BA:482:A:P	2.32	0.53
35:DA:549:G:H2'	35:DA:551:G:C5'	2.21	0.53
40:DF:125:LEU:HD22	40:DF:125:LEU:N	2.24	0.53
18:AR:60:ALA:O	18:AR:64:ARG:HG3	2.09	0.53
35:BA:2305:A:H2'	35:BA:2306:C:O4'	2.09	0.53
1:CA:542:G:H5'	4:CD:41:GLY:HA3	1.91	0.53
57:BY:28:LYS:O	57:BY:29:GLU:C	2.46	0.53
10:CJ:38:ILE:CD1	10:CJ:71:LEU:HD23	2.39	0.53
5:AE:76:ILE:CG2	5:AE:93:PRO:HB3	2.39	0.53
1:AA:1178:G:P	9:AI:93:ARG:HH21	2.31	0.53
1:AA:60:A:H2	1:AA:107:G:N3	2.06	0.53
40:DF:40:GLN:OE1	40:DF:184:TYR:HB2	2.09	0.53
38:BD:34:VAL:O	38:BD:34:VAL:HG13	2.08	0.53
38:BD:34:VAL:O	38:BD:35:LYS:HD3	2.08	0.53
20:AT:49:ALA:HB1	20:AT:100:ILE:HD13	1.90	0.53
35:BA:2630:G:H1'	35:BA:2894:G:C1'	2.37	0.53
5:CE:76:ILE:HG23	5:CE:93:PRO:HB3	1.89	0.53
60:DI:77:LEU:CD1	60:DI:142:VAL:HG13	2.39	0.53
24:AY:116:ALA:HB2	24:AY:177:TYR:HA	1.90	0.53
2:AB:71:VAL:HG23	2:AB:164:VAL:HG22	1.89	0.53
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.37	0.53
6:AF:62:TRP:CZ3	6:AF:64:GLN:HB2	2.44	0.53
3:AC:67:THR:HG23	3:AC:102:ASN:HB2	1.89	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1484:G:C3'	35:BA:1485:G:H5''	2.38	0.53
1:AA:475:G:H2'	1:AA:476:G:C8	2.44	0.53
36:BB:20:C:O2'	36:BB:21:G:H5'	2.08	0.53
22:CV:61:C:H2'	22:CV:62:C:C6	2.44	0.53
1:CA:1278:U:H5''	1:CA:1279:A:O4'	2.08	0.53
24:CY:206:ALA:HA	24:CY:305:ILE:HD11	1.90	0.53
1:AA:160:A:H2'	1:AA:161:A:O4'	2.08	0.53
24:CY:212:PRO:HD2	24:CY:298:LEU:HD13	1.89	0.53
24:CY:223:LYS:HB2	24:CY:226:GLU:HG2	1.91	0.53
1:CA:243:A:O2'	1:CA:244:U:OP2	2.25	0.53
1:AA:777:A:H2'	1:AA:778:G:C8	2.44	0.53
35:BA:963:U:H2'	35:BA:964:C:C6	2.44	0.53
11:AK:120:ARG:NH2	11:AK:126:ARG:HH21	2.06	0.53
35:BA:443:A:H1'	35:BA:1201:C:O4'	2.09	0.53
35:DA:2625:G:H2'	35:DA:2626:C:O4'	2.09	0.53
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.09	0.53
35:DA:706:A:C2	35:DA:707:G:H1'	2.44	0.53
40:DF:107:LYS:HE3	40:DF:205:ARG:O	2.09	0.53
39:DE:13:ARG:HA	39:DE:22:PRO:HA	1.91	0.53
35:DA:1385:G:C4	35:DA:1386:C:C5	2.96	0.53
24:CY:156:LEU:O	24:CY:156:LEU:HG	2.07	0.53
32:B7:36:GLN:HG2	32:B7:36:GLN:O	2.08	0.53
38:DD:159:ALA:HB1	38:DD:198:ASN:O	2.09	0.53
31:B6:28:ARG:NH1	31:B6:28:ARG:CB	2.69	0.53
58:BZ:151:HIS:HB3	58:BZ:170:THR:CA	2.31	0.53
1:CA:411:A:H2'	1:CA:412:A:H4'	1.91	0.53
35:DA:1576:U:H2'	35:DA:1577:C:H6	1.73	0.53
57:BY:26:LYS:HG2	57:BY:27:VAL:N	2.22	0.53
22:CW:10:G:N2	22:CW:26:A:H1'	2.24	0.53
57:DY:27:VAL:C	57:DY:29:GLU:OE1	2.47	0.53
60:DI:133:HIS:CD2	60:DI:135:GLU:HG2	2.44	0.53
35:DA:78:A:H2'	35:DA:79:G:H8	1.74	0.53
10:CJ:40:LEU:H	10:CJ:40:LEU:CD2	2.15	0.53
1:CA:57:G:O6	1:CA:356:A:N1	2.42	0.53
39:BE:2:LYS:HE2	39:BE:95:ILE:CG2	2.39	0.53
27:D2:53:LEU:O	27:D2:56:GLN:HB2	2.08	0.53
57:BY:88:LYS:HD3	57:BY:93:GLY:H	1.74	0.53
12:AL:25:PRO:C	12:AL:27:LEU:H	2.10	0.53
5:CE:50:GLU:HB3	5:CE:53:LEU:HD13	1.90	0.53
24:CY:42:PRO:HA	24:CY:45:ALA:HB2	1.91	0.53
24:AY:352:LYS:O	24:AY:354:GLY:N	2.41	0.53
35:DA:1278:A:O3'	50:DR:34:ILE:HG23	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:626:U:H4'	16:CP:38:TYR:CE2	2.44	0.53
39:DE:11:MET:CB	39:DE:24:THR:HA	2.38	0.53
38:BD:43:ARG:HD3	38:BD:49:ILE:HG22	1.90	0.53
36:BB:12:C:C4'	36:BB:13:A:OP1	2.57	0.53
3:AC:100:ALA:O	3:AC:101:LEU:HB2	2.08	0.53
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.22	0.53
35:BA:1516:C:H2'	35:BA:1517:G:H8	1.74	0.53
16:CP:75:ARG:O	16:CP:78:GLY:N	2.37	0.53
1:CA:512:U:H2'	1:CA:513:C:H6	1.74	0.53
35:DA:821:A:C2'	35:DA:946:G:H5''	2.38	0.53
35:BA:1300:U:O2'	35:BA:1301:A:OP2	2.27	0.53
1:AA:1326:C:H2'	1:AA:1327:C:H6	1.74	0.53
52:BT:121:ILE:HG22	52:BT:122:ASP:N	2.23	0.53
56:DX:71:GLY:C	56:DX:72:LYS:HG3	2.29	0.53
12:CL:119:LYS:C	12:CL:120:TYR:HD1	2.12	0.53
1:AA:521:G:O2'	1:AA:522:C:H5'	2.09	0.53
35:DA:2679:A:O2'	35:DA:2680:C:H5'	2.08	0.53
35:DA:654:A:N3	35:DA:654(A):G:H1'	2.24	0.53
35:BA:37:C:H2'	35:BA:38:A:C8	2.43	0.53
1:CA:174:C:H2'	1:CA:175:C:H6	1.72	0.53
1:AA:1027:C:H2'	1:AA:1028:C:C5	2.44	0.53
35:BA:1666:G:O3'	47:BO:6:THR:HG23	2.09	0.53
1:CA:663:A:H5''	18:CR:61:LYS:HZ2	1.74	0.53
54:DV:89:GLN:OE1	54:DV:89:GLN:HA	2.09	0.53
55:DW:95:ILE:O	55:DW:95:ILE:HG13	2.08	0.53
40:BF:164:ARG:HH11	40:BF:164:ARG:HG2	1.74	0.53
35:DA:1668:A:N6	35:DA:1676:A:H61	2.07	0.53
35:BA:1332:G:H5''	35:BA:1332:G:C8	2.44	0.53
35:BA:1331:A:O2'	35:BA:1332:G:H5''	2.07	0.53
35:BA:706:A:C2	35:BA:707:G:H1'	2.44	0.53
49:BQ:140:ALA:HB1	58:BZ:99:TYR:HB2	1.88	0.53
35:DA:1076:C:H2'	35:DA:1077:A:C8	2.44	0.53
49:DQ:134:ARG:NH1	58:DZ:119:GLU:OE2	2.42	0.53
58:DZ:141:VAL:HG22	58:DZ:141:VAL:O	2.09	0.53
24:AY:68:ASP:CG	24:AY:91:LEU:HD21	2.28	0.53
41:DG:41:GLN:O	41:DG:43:LEU:HD23	2.08	0.53
58:BZ:141:VAL:CG2	58:BZ:144:LEU:HB2	2.39	0.53
48:DP:114:ILE:O	48:DP:115:LEU:HB3	2.09	0.53
9:CI:53:VAL:HG13	9:CI:95:LYS:HZ1	1.74	0.53
25:B0:14:ARG:O	25:B0:15:ASP:HB2	2.09	0.53
5:AE:115:VAL:HG12	5:AE:116:THR:N	2.24	0.53
38:DD:244:ARG:HH11	38:DD:244:ARG:HG2	1.73	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BX:80:ILE:HG13	56:BX:80:ILE:O	2.09	0.53
53:BU:92:ARG:CD	54:BV:11:GLN:HG2	2.38	0.53
54:BV:18:LEU:CD2	54:BV:19:LYS:H	2.22	0.53
32:D7:8:ASN:HD22	32:D7:9:ARG:N	2.07	0.53
40:DF:181:LEU:CD1	40:DF:186:ILE:HD11	2.38	0.53
51:DS:101:LEU:O	51:DS:102:ALA:O	2.27	0.53
20:AT:100:ILE:CD1	20:AT:100:ILE:H	2.22	0.53
20:AT:57:ARG:HH12	20:AT:102:GLY:CA	2.22	0.53
20:AT:45:GLN:HB2	20:AT:91:LEU:HD22	1.90	0.53
24:CY:256:THR:HB	24:CY:258:ILE:HG23	1.90	0.53
24:AY:312:ARG:HH21	24:AY:325:ARG:HH22	1.56	0.53
48:BP:100:LEU:CD2	48:BP:100:LEU:H	2.20	0.53
10:CJ:48:THR:HG23	10:CJ:62:HIS:CB	2.39	0.53
27:D2:42:GLY:O	27:D2:44:LEU:N	2.42	0.53
3:CC:64:VAL:O	3:CC:100:ALA:HB3	2.09	0.53
1:CA:637:G:H2'	1:CA:638:G:C8	2.43	0.53
35:DA:1037:G:H1	35:DA:1118:C:N4	2.06	0.53
24:AY:118:LEU:CD1	24:AY:210:VAL:HG22	2.38	0.53
1:AA:486:U:H2'	1:AA:487:A:H8	1.70	0.53
10:CJ:56:HIS:C	10:CJ:58:ASP:H	2.11	0.53
35:BA:1515:G:H2'	35:BA:1516:C:H6	1.68	0.53
39:DE:101:ARG:HA	39:DE:170:LEU:O	2.09	0.53
1:CA:966:G:O2'	1:CA:967:C:O5'	2.26	0.53
16:CP:5:ARG:O	16:CP:19:ILE:HA	2.09	0.53
2:CB:8:LYS:HA	2:CB:217:ARG:HH22	1.74	0.53
25:D0:65:GLY:HA2	25:D0:84:LEU:CD1	2.39	0.53
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.08	0.53
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.09	0.53
2:AB:144:ARG:HA	2:AB:147:LYS:HB3	1.91	0.53
1:AA:599:C:O2'	1:AA:600:C:H5'	2.08	0.53
35:BA:1952:A:C2	47:BO:22:ILE:HG23	2.44	0.53
35:DA:919:G:H4'	36:DB:81:G:H4'	1.91	0.53
11:AK:34:ASP:OD2	11:AK:36:ASP:HB2	2.08	0.53
12:CL:92:ASP:O	12:CL:94:PRO:HD3	2.09	0.53
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.24	0.53
17:AQ:80:GLY:C	17:AQ:82:MET:H	2.12	0.53
35:BA:473:G:P	35:BA:508:G:H22	2.32	0.53
35:BA:203:C:H3'	35:BA:204:A:H5''	1.90	0.53
54:BV:89:GLN:OE1	54:BV:89:GLN:HA	2.09	0.53
24:CY:137:LEU:O	24:CY:137:LEU:HD22	2.09	0.53
8:CH:95:VAL:HB	8:CH:99:GLU:O	2.08	0.53
59:D4:59:VAL:CG1	59:D4:60:GLU:H	2.13	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:31:HIS:CG	33:D8:32:LEU:N	2.77	0.53
13:CM:84:ILE:HG13	19:CS:66:MET:CE	2.39	0.53
41:BG:109:VAL:O	41:BG:113:ARG:CG	2.56	0.53
4:CD:55:ALA:O	4:CD:59:ARG:HG2	2.09	0.53
24:AY:33:LEU:HB3	24:AY:36:PRO:CG	2.39	0.53
35:DA:2287:A:H2	35:DA:2346:A:C2	2.27	0.53
48:DP:128:HIS:O	48:DP:129:ALA:HB2	2.09	0.53
40:DF:53:THR:C	40:DF:55:GLY:H	2.11	0.53
57:BY:27:VAL:C	57:BY:29:GLU:OE1	2.47	0.53
35:DA:494:G:N2	55:DW:57:ASN:HD21	2.05	0.53
31:D6:19:ARG:H	31:D6:19:ARG:CD	2.22	0.53
41:DG:107:LEU:HD13	41:DG:178:PHE:CD1	2.44	0.53
37:DC:82:LYS:CE	37:DC:151:GLU:HA	2.32	0.53
54:DV:19:LYS:HD3	54:DV:22:VAL:HG23	1.90	0.53
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.39	0.53
51:BS:14:VAL:CG1	51:BS:15:ARG:H	2.11	0.53
35:BA:1528(A):A:N7	35:BA:1529:G:H8	2.07	0.53
19:AS:14:HIS:O	19:AS:18:LYS:HE2	2.09	0.53
51:DS:76:LYS:O	51:DS:80:LEU:HD13	2.09	0.53
57:BY:49:VAL:HG12	57:BY:53:PRO:CG	2.36	0.53
1:AA:738:C:H2'	1:AA:739:C:C6	2.44	0.53
35:BA:1685:C:C2'	35:BA:1686:C:C5'	2.87	0.53
5:CE:48:ALA:O	5:CE:50:GLU:N	2.42	0.53
60:DI:120:ILE:HD11	60:DI:126:TYR:CE1	2.44	0.53
60:DI:77:LEU:HD11	60:DI:142:VAL:CA	2.37	0.53
8:CH:84:ARG:HH11	8:CH:84:ARG:HG2	1.73	0.53
35:DA:287:C:H2'	35:DA:288:C:O4'	2.09	0.53
11:CK:27:ASN:HB2	11:CK:55:LYS:CD	2.36	0.53
45:BK:9:LYS:O	45:BK:10:LEU:HB3	2.09	0.53
35:BA:795:C:H2'	35:BA:796:C:H6	1.74	0.53
1:AA:637:G:H2'	1:AA:638:G:C8	2.44	0.53
35:DA:2511:U:H2'	35:DA:2512:C:H6	1.73	0.53
1:AA:797:C:O2'	1:AA:798:G:H5'	2.09	0.53
42:BH:137:ASP:OD1	42:BH:138:LYS:N	2.42	0.53
53:DU:34:LYS:HA	53:DU:34:LYS:CE	2.39	0.53
7:AG:32:ARG:NH1	7:AG:32:ARG:HG2	2.24	0.53
1:AA:1004:A:HO2'	1:AA:1038:C:H1'	1.73	0.53
3:CC:32:LEU:HD22	3:CC:59:ARG:NH1	2.24	0.53
58:DZ:81:ARG:O	58:DZ:82:ARG:HB2	2.09	0.53
35:DA:1464:C:H2'	35:DA:1465:G:C8	2.44	0.53
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.43	0.53
34:D9:19:ARG:NH1	35:DA:2755:C:C4	2.77	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1782:C:O2'	35:BA:1783:A:H5'	2.08	0.53
34:B9:19:ARG:NH1	35:BA:2755:C:C4	2.77	0.53
3:AC:172:ARG:NH1	3:AC:172:ARG:HB3	2.24	0.53
35:BA:997:G:OP1	53:BU:93:LYS:HB2	2.08	0.53
1:CA:777:A:H2'	1:CA:778:G:H8	1.74	0.53
11:AK:120:ARG:NH2	11:AK:126:ARG:HE	2.07	0.53
6:CF:48:LEU:HG	6:CF:57:GLN:HA	1.91	0.53
44:BJ:30:UNK:O	44:BJ:32:UNK:N	2.42	0.53
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.90	0.53
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.62	0.53
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.23	0.53
18:CR:74:ARG:HB3	18:CR:81:PHE:CE1	2.44	0.53
1:CA:110:C:O2'	1:CA:111:G:O5'	2.26	0.53
24:AY:220:VAL:HG12	24:AY:220:VAL:O	2.08	0.53
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.62	0.53
26:B1:50:ARG:HA	26:B1:58:ILE:O	2.09	0.52
58:BZ:99:TYR:HA	58:BZ:124:ILE:O	2.09	0.52
45:DK:90:LYS:O	58:DZ:112:ARG:NH2	2.42	0.52
13:CM:9:ILE:HG21	13:CM:11:ARG:NE	2.24	0.52
13:AM:7:VAL:O	13:AM:9:ILE:HD12	2.10	0.52
31:D6:26:ASN:ND2	31:D6:32:ASN:HD21	2.05	0.52
52:BT:82:LEU:C	52:BT:84:GLN:N	2.62	0.52
52:BT:88:ILE:HG22	52:BT:89:VAL:CG2	2.24	0.52
41:BG:83:ARG:HG2	41:BG:84:LYS:HG3	1.89	0.52
41:BG:83:ARG:HD3	41:BG:83:ARG:N	2.24	0.52
54:DV:39:LEU:O	54:DV:40:LEU:CB	2.57	0.52
1:CA:9:G:H2'	1:CA:10:A:C8	2.44	0.52
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.23	0.52
57:DY:8:LYS:HE2	57:DY:69:ALA:O	2.09	0.52
54:BV:18:LEU:CG	54:BV:19:LYS:H	2.21	0.52
35:DA:142(A):C:O2'	35:DA:143:G:H5'	2.09	0.52
35:DA:1203:G:H4'	48:DP:7:ARG:HD3	1.91	0.52
38:DD:33:LEU:O	38:DD:34:VAL:C	2.46	0.52
1:CA:1329:A:H5''	13:CM:29:ARG:HD2	1.89	0.52
57:BY:50:ARG:C	57:BY:52:SER:H	2.12	0.52
35:BA:2439:A:H3'	35:BA:2439:A:P	2.49	0.52
1:CA:434:U:H2'	1:CA:435:C:H6	1.72	0.52
49:BQ:1:MET:O	49:BQ:2:LEU:CB	2.57	0.52
45:DK:57:ILE:HG23	45:DK:65:PHE:HB2	1.89	0.52
7:AG:155:ARG:O	7:AG:156:TRP:HD1	1.92	0.52
35:BA:1980:G:O2'	35:BA:1982:C:OP2	2.27	0.52
7:AG:115:ARG:HB2	7:AG:118:VAL:CG2	2.38	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:624:C:H2'	1:AA:625:G:H8	1.75	0.52
2:AB:73:THR:HA	2:AB:94:ASN:O	2.08	0.52
45:DK:112:MET:N	45:DK:113:PRO:CD	2.72	0.52
1:AA:741:G:H5'	15:AO:39:LEU:HD23	1.91	0.52
35:DA:1614:A:N1	55:DW:91:GLY:HA2	2.23	0.52
19:CS:29:ARG:O	19:CS:31:ILE:N	2.42	0.52
35:BA:644:A:H4'	35:BA:645:C:C5	2.45	0.52
46:BN:9:VAL:HG12	46:BN:10:GLU:N	2.23	0.52
3:AC:179:ARG:HG3	3:AC:179:ARG:O	2.07	0.52
22:CV:76:A:H2'	35:DA:2451:A:O2'	2.09	0.52
4:CD:2:GLY:O	4:CD:4:TYR:N	2.41	0.52
18:AR:86:VAL:HG12	18:AR:87:ARG:HD2	1.91	0.52
27:B2:18:PRO:HG2	27:B2:19:VAL:H	1.74	0.52
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.91	0.52
18:AR:67:ALA:HA	18:AR:70:ILE:HG12	1.89	0.52
35:DA:247:G:N7	35:DA:249:C:C2	2.77	0.52
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.09	0.52
37:BC:65:PRO:HG2	37:BC:189:ILE:HA	1.91	0.52
3:CC:34:LEU:HD23	3:CC:35:GLU:N	2.24	0.52
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.73	0.52
35:BA:1510:G:H2'	35:BA:1511:C:C6	2.43	0.52
35:BA:1678:G:H22	35:BA:1989:G:H22	1.54	0.52
13:CM:22:ILE:HB	13:CM:25:ILE:HB	1.92	0.52
3:AC:33:LEU:O	3:AC:37:GLN:HG2	2.09	0.52
3:AC:32:LEU:HD22	3:AC:59:ARG:NH1	2.24	0.52
36:DB:27:C:H5'	36:DB:28:C:OP2	2.10	0.52
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.43	0.52
53:DU:108:GLU:O	53:DU:112:ARG:HG2	2.09	0.52
18:CR:36:ASN:HB3	18:CR:39:VAL:CG2	2.39	0.52
1:CA:900:A:H2'	1:CA:901:A:C8	2.43	0.52
35:DA:1162:G:O2'	35:DA:1163:G:H5'	2.09	0.52
50:BR:64:ARG:O	50:BR:68:ARG:HG3	2.09	0.52
1:AA:1300:G:O2'	1:AA:1301:U:P	2.67	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG12	2.09	0.52
9:AI:23:ASN:HD22	9:AI:23:ASN:N	2.07	0.52
53:BU:89:GLU:OE1	53:BU:89:GLU:N	2.42	0.52
8:AH:102:ARG:N	8:AH:102:ARG:HE	2.07	0.52
46:BN:119:ARG:CG	46:BN:119:ARG:HH11	2.21	0.52
1:AA:533:A:O2'	1:AA:534:U:H5''	2.09	0.52
38:BD:73:VAL:HG13	38:BD:120:GLY:HA2	1.91	0.52
1:CA:882:C:O2'	1:CA:883:C:H5'	2.08	0.52
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.52	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BQ:140:ALA:HA	58:BZ:99:TYR:CG	2.45	0.52
2:AB:19:HIS:HD1	2:AB:189:ASP:CG	2.12	0.52
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.90	0.52
54:DV:48:GLY:O	54:DV:49:THR:HG23	2.09	0.52
35:DA:271(M):G:C3'	35:DA:271(N):U:H5''	2.38	0.52
9:CI:100:GLY:C	9:CI:102:LEU:H	2.12	0.52
52:DT:16:ARG:NH1	52:DT:16:ARG:HG3	2.24	0.52
35:BA:1529:G:N2	35:BA:1530:C:H3'	2.23	0.52
9:AI:5:TYR:HE2	9:AI:16:ARG:HG2	1.73	0.52
52:DT:50:ILE:N	52:DT:50:ILE:HD12	2.23	0.52
19:AS:19:VAL:O	19:AS:20:LEU:HD23	2.10	0.52
35:BA:143:G:H1'	56:BX:37:THR:CG2	2.36	0.52
20:CT:96:GLY:O	20:CT:99:LEU:HG	2.08	0.52
8:AH:84:ARG:O	8:AH:135:CYS:HB2	2.09	0.52
5:CE:101:ILE:HG12	5:CE:101:ILE:O	2.08	0.52
35:BA:1054:A:H2'	35:BA:1055:G:H8	1.69	0.52
24:AY:181:SER:N	24:AY:182:PRO:HD2	2.25	0.52
48:DP:100:LEU:HD22	48:DP:100:LEU:N	2.25	0.52
48:BP:88:LEU:CD1	48:BP:95:VAL:HG11	2.39	0.52
27:D2:44:LEU:O	27:D2:45:SER:HB3	2.09	0.52
39:BE:117:MET:HE1	39:BE:124:GLY:HA3	1.91	0.52
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.44	0.52
24:AY:229:ILE:HG21	24:AY:272:LYS:HE3	1.90	0.52
39:DE:21:VAL:HG23	39:DE:21:VAL:O	2.09	0.52
3:AC:134:ILE:CG2	3:AC:168:ALA:HB3	2.39	0.52
2:CB:167:PRO:HG3	2:CB:188:ALA:CB	2.39	0.52
6:CF:62:TRP:CZ3	6:CF:64:GLN:HB2	2.44	0.52
1:CA:486:U:H2'	1:CA:487:A:H8	1.71	0.52
35:BA:1906:G:O2'	35:BA:1907:G:H5'	2.08	0.52
27:B2:11:GLU:HG3	27:B2:12:GLU:H	1.73	0.52
12:CL:81:SER:O	12:CL:82:VAL:CB	2.57	0.52
22:CW:70:G:H2'	22:CW:71:G:C5'	2.39	0.52
24:AY:106:LEU:O	24:AY:108:ASN:N	2.43	0.52
1:CA:1169:A:H2'	1:CA:1170:A:H8	1.72	0.52
38:DD:161:THR:O	38:DD:162:SER:HB3	2.09	0.52
1:AA:274:A:H4'	1:AA:275:G:OP1	2.09	0.52
16:AP:72:ARG:HH21	16:AP:73:LEU:HD21	1.73	0.52
56:BX:71:GLY:C	56:BX:72:LYS:HG3	2.29	0.52
35:BA:1109:C:H2'	35:BA:1109:C:O2	2.08	0.52
35:BA:1464:C:H2'	35:BA:1465:G:C8	2.43	0.52
35:BA:2605:U:H2'	35:BA:2606:C:C6	2.44	0.52
3:CC:172:ARG:NH1	3:CC:172:ARG:HB3	2.23	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:34:LEU:HD23	3:AC:35:GLU:N	2.24	0.52
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.09	0.52
49:DQ:116:GLU:O	49:DQ:120:ILE:HG12	2.09	0.52
35:BA:1166:C:H2'	35:BA:1167:U:H6	1.74	0.52
46:DN:102:ALA:O	46:DN:106:MET:HE3	2.09	0.52
35:DA:1844:C:O2'	35:DA:1845:G:H5'	2.09	0.52
2:AB:134:GLU:OE1	2:AB:138:LEU:HD11	2.08	0.52
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.09	0.52
47:BO:26:LYS:HE3	47:BO:37:ASP:OD1	2.09	0.52
35:BA:64:A:O2'	35:BA:65:C:H5'	2.10	0.52
36:DB:4:C:H2'	36:DB:5:C:C6	2.44	0.52
24:AY:290:LYS:O	24:AY:294:GLU:HG3	2.09	0.52
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.91	0.52
58:DZ:99:TYR:CE2	58:DZ:125:LEU:HD13	2.44	0.52
35:BA:588:U:H1'	40:BF:90:PHE:CD1	2.44	0.52
24:AY:6:LEU:O	24:AY:10:LEU:HB3	2.09	0.52
24:AY:74:GLU:O	24:AY:78:GLU:N	2.40	0.52
27:B2:63:VAL:O	27:B2:66:GLU:HG2	2.10	0.52
4:CD:8:VAL:O	4:CD:10:ARG:N	2.42	0.52
37:BC:94:VAL:HG23	37:BC:94:VAL:O	2.10	0.52
42:BH:159:GLU:CG	42:BH:160:LYS:H	2.14	0.52
35:BA:1899:G:H21	35:BA:1902:C:H5	1.57	0.52
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HD23	1.91	0.52
35:DA:1529:G:N2	35:DA:1530:C:H3'	2.24	0.52
9:AI:104:ARG:O	9:AI:105:ASP:CB	2.57	0.52
9:AI:97:LYS:C	9:AI:99:LEU:N	2.63	0.52
37:DC:58:VAL:C	37:DC:59:ARG:HD3	2.29	0.52
58:BZ:59:LEU:O	58:BZ:61:LEU:HD22	2.10	0.52
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.25	0.52
20:AT:45:GLN:CB	20:AT:91:LEU:HD13	2.37	0.52
6:CF:91:VAL:CG1	6:CF:92:LYS:N	2.71	0.52
54:BV:69:LYS:HA	54:BV:87:HIS:O	2.10	0.52
8:CH:10:LEU:HB3	8:CH:83:ILE:CD1	2.39	0.52
33:D8:21:LYS:HD3	33:D8:48:PHE:CZ	2.44	0.52
1:AA:424:G:H2'	1:AA:425:G:C8	2.37	0.52
1:AA:424:G:N7	35:DA:2139:C:C5'	2.71	0.52
10:AJ:48:THR:CG2	10:AJ:62:HIS:HB3	2.40	0.52
47:BO:16:ALA:HA	47:BO:46:ALA:CB	2.39	0.52
2:AB:92:TYR:CD2	2:AB:151:GLY:HA3	2.43	0.52
35:BA:855:G:H1	35:BA:922:U:H3	1.55	0.52
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	1.92	0.52
45:BK:100:THR:HA	45:BK:139:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.22	0.52
56:DX:90:GLU:O	56:DX:93:GLU:HB2	2.09	0.52
35:DA:718:A:C2'	35:DA:719:C:H5'	2.39	0.52
1:AA:1031:G:O2'	1:AA:1032:G:H5'	2.09	0.52
1:CA:489:C:H2'	1:CA:490:G:C8	2.43	0.52
1:AA:1288:A:O4'	1:AA:1353:G:H4'	2.09	0.52
35:BA:2543:G:H2'	35:BA:2544:G:H8	1.72	0.52
35:BA:2846:G:OP2	52:BT:54:ARG:HB2	2.08	0.52
35:DA:962:G:O2'	35:DA:963:U:H5'	2.09	0.52
17:AQ:56:VAL:O	17:AQ:77:VAL:HB	2.09	0.52
25:D0:20:ARG:HH11	35:DA:2271:G:C5'	2.23	0.52
1:AA:453:A:O2'	1:AA:454:C:C6	2.60	0.52
35:DA:1448:G:H2'	35:DA:1449:A:H8	1.74	0.52
9:AI:118:LYS:HZ2	9:AI:118:LYS:HB3	1.73	0.52
53:BU:102:GLU:HG3	54:BV:2:PHE:HE1	1.72	0.52
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.91	0.52
35:BA:2672:G:H3'	35:BA:2673:G:H5''	1.90	0.52
48:BP:13:ASN:HD22	48:BP:13:ASN:H	1.58	0.52
35:DA:2888:C:H2'	35:DA:2889:C:C6	2.44	0.52
4:AD:146:ILE:HD12	4:AD:146:ILE:N	2.24	0.52
35:DA:1782:C:O2'	35:DA:1783:A:H5'	2.08	0.52
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.10	0.52
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.09	0.52
25:D0:25:ARG:HA	25:D0:29:GLN:HE22	1.75	0.52
35:DA:2250:G:OP1	49:DQ:85:LYS:HE3	2.09	0.52
1:AA:985:C:H2'	1:AA:986:A:C8	2.44	0.52
49:BQ:114:ALA:C	49:BQ:116:GLU:H	2.12	0.52
32:D7:38:GLY:O	35:DA:458:G:H5''	2.09	0.52
39:BE:13:ARG:HA	39:BE:22:PRO:HA	1.90	0.52
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.45	0.52
7:AG:57:GLU:N	7:AG:57:GLU:OE2	2.42	0.52
6:AF:22:GLU:OE2	6:AF:22:GLU:HA	2.09	0.52
52:BT:66:VAL:O	52:BT:66:VAL:HG12	2.08	0.52
22:AV:72:C:H6	22:AV:72:C:C5'	2.14	0.52
29:B4:59:VAL:CG1	29:B4:60:GLU:H	2.13	0.52
30:D5:47:PRO:O	30:D5:48:GLU:HG3	2.09	0.52
35:BA:1579:A:H8	35:BA:1579:A:H5'	1.73	0.52
42:DH:35:VAL:HG13	42:DH:71:LEU:HD22	1.91	0.52
41:BG:82:LEU:CD2	41:BG:83:ARG:H	2.21	0.52
40:BF:53:THR:C	40:BF:55:GLY:H	2.12	0.52
53:DU:80:ILE:O	53:DU:84:LYS:HB2	2.10	0.52
54:DV:46:VAL:HG13	54:DV:47:VAL:N	2.24	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:111:ARG:HA	48:DP:128:HIS:ND1	2.24	0.52
48:BP:128:HIS:O	48:BP:129:ALA:HB2	2.09	0.52
48:BP:130:PHE:CD2	48:BP:130:PHE:N	2.77	0.52
40:DF:53:THR:HG22	40:DF:56:GLU:CD	2.30	0.52
54:BV:48:GLY:O	54:BV:49:THR:HG23	2.09	0.52
35:BA:1902:C:C1'	38:BD:244:ARG:HD3	2.40	0.52
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.91	0.52
24:CY:23:GLU:HG3	24:CY:24:THR:HG23	1.91	0.52
24:CY:27:LYS:HD3	45:DK:21:PRO:HD3	1.91	0.52
5:AE:79:GLU:O	8:AH:104:ARG:CZ	2.57	0.52
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.91	0.52
52:BT:38:ASN:HD21	52:BT:41:ARG:HG2	1.74	0.52
57:DY:2:ARG:C	57:DY:4:LYS:N	2.63	0.52
37:DC:59:ARG:N	37:DC:59:ARG:HD3	2.25	0.52
51:BS:101:LEU:HD13	51:BS:101:LEU:N	2.23	0.52
51:BS:106:ARG:HH11	51:BS:109:GLY:N	2.07	0.52
38:DD:35:LYS:HG2	38:DD:104:TYR:CE1	2.45	0.52
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.40	0.52
24:CY:256:THR:HG21	24:CY:283:LEU:HD22	1.92	0.52
46:DN:58:ASP:C	46:DN:60:ILE:N	2.63	0.52
49:DQ:55:VAL:HG22	49:DQ:56:ARG:H	1.72	0.52
49:DQ:63:LYS:HZ2	58:DZ:175:VAL:HG21	1.73	0.52
46:BN:25:ARG:CG	46:BN:25:ARG:HH11	2.19	0.52
45:DK:125:ARG:HG2	45:DK:125:ARG:HH11	1.73	0.52
39:BE:134:ILE:O	39:BE:134:ILE:CG1	2.55	0.52
42:BH:115:VAL:HG12	42:BH:116:GLU:N	2.24	0.52
40:BF:165:ARG:HG3	40:BF:165:ARG:HH11	1.75	0.52
34:D9:11:CYS:CB	34:D9:13:LYS:H	2.20	0.52
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.91	0.52
10:CJ:32:ALA:H	10:CJ:78:ASN:ND2	2.07	0.52
3:CC:179:ARG:O	3:CC:179:ARG:HG3	2.08	0.52
35:DA:1316:U:O2'	35:DA:1317:A:H5'	2.10	0.52
43:BI:27:ARG:O	43:BI:32:PRO:HG3	2.09	0.52
1:AA:1151:A:H2'	1:AA:1152:A:H8	1.74	0.52
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.42	0.52
35:DA:1484:G:C3'	35:DA:1485:G:H5''	2.38	0.52
1:AA:67:C:H2'	1:AA:68:G:H8	1.73	0.52
1:CA:927:G:O2'	1:CA:928:G:H5'	2.09	0.52
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.39	0.52
53:DU:101:ARG:C	53:DU:102:GLU:HG2	2.30	0.52
35:BA:2087:G:O2'	35:BA:2088:G:H5'	2.09	0.52
35:DA:1345:C:H2'	35:DA:1346:G:C8	2.44	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1678:G:H22	35:DA:1989:G:H22	1.55	0.52
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.24	0.52
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.24	0.52
40:BF:114:VAL:HG21	40:BF:202:PHE:CZ	2.44	0.52
8:AH:95:VAL:HB	8:AH:99:GLU:O	2.09	0.52
35:DA:443:A:H1'	35:DA:1201:C:O4'	2.09	0.52
35:DA:296:C:O2'	35:DA:297:C:H5'	2.10	0.52
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.24	0.52
58:BZ:137:ILE:HG22	58:BZ:138:GLU:N	2.24	0.52
5:CE:47:LYS:HD2	5:CE:47:LYS:N	2.24	0.52
39:DE:200:GLU:OE2	39:DE:200:GLU:N	2.35	0.52
1:AA:536:C:H2'	1:AA:537:G:C8	2.45	0.52
26:D1:82:LEU:C	26:D1:83:GLU:HG3	2.29	0.52
51:BS:97:ARG:HH21	51:BS:98:VAL:CA	2.20	0.52
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.90	0.52
57:BY:96:ILE:HD12	57:BY:99:CYS:HB2	1.92	0.52
45:DK:91:PRO:O	58:DZ:112:ARG:NH2	2.42	0.52
31:B6:23:THR:HG21	35:BA:2419:U:H5'	1.91	0.52
4:AD:55:ALA:O	4:AD:59:ARG:HG2	2.09	0.52
41:DG:39:ILE:HG13	41:DG:92:VAL:CG1	2.40	0.52
41:BG:29:TRP:C	41:BG:31:VAL:H	2.12	0.52
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.35	0.52
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.23	0.52
18:CR:21:LYS:NZ	18:CR:53:ARG:O	2.43	0.52
54:BV:39:LEU:HD12	54:BV:47:VAL:HG21	1.91	0.52
35:BA:1171:G:H5''	35:BA:1173:G:H5''	1.92	0.52
35:DA:494:G:O2'	35:DA:495:G:H5'	2.09	0.52
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.10	0.52
51:BS:17:ARG:O	51:BS:19:LYS:N	2.43	0.52
51:BS:20:ARG:HG3	51:BS:25:ARG:HD2	1.91	0.52
57:DY:28:LYS:O	57:DY:29:GLU:C	2.47	0.52
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.25	0.52
48:BP:7:ARG:NH1	48:BP:7:ARG:HG2	2.23	0.52
56:BX:30:VAL:CG2	56:BX:79:ALA:HB3	2.40	0.52
20:CT:51:GLU:HA	20:CT:54:LYS:HB3	1.92	0.52
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.74	0.52
35:DA:2112:G:H2'	35:DA:2113:U:O4'	2.09	0.52
1:CA:1446:U:H4'	1:CA:1447:A:N7	2.24	0.52
60:DI:3:VAL:O	60:DI:18:VAL:HA	2.10	0.52
1:AA:115:G:O2'	1:AA:116:A:OP2	2.27	0.52
48:DP:125:VAL:O	48:DP:145:PRO:HD2	2.09	0.52
53:BU:25:TRP:CD1	53:BU:26:GLY:N	2.78	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.44	0.52
1:AA:422:C:H4'	1:AA:423:G:C4	2.45	0.52
50:DR:48:VAL:HA	50:DR:51:LEU:HD13	1.89	0.52
1:CA:501:C:H2'	1:CA:502:G:C8	2.43	0.52
47:DO:101:PRO:HD2	52:DT:70:VAL:HB	1.92	0.52
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.73	0.52
1:AA:728:A:H2'	1:AA:729:A:C8	2.44	0.52
17:CQ:43:LEU:O	17:CQ:69:LYS:HG3	2.09	0.52
35:DA:1357:U:H2'	35:DA:1358:G:O4'	2.09	0.52
40:BF:160:ASN:HD22	40:BF:160:ASN:C	2.12	0.52
35:DA:2575:C:H2'	35:DA:2578:G:O6	2.10	0.52
35:DA:795:C:H2'	35:DA:796:C:C6	2.44	0.52
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.40	0.52
1:AA:1060:C:P	14:AN:45:ARG:HH22	2.32	0.52
6:CF:40:VAL:HG23	6:CF:63:TYR:HD1	1.73	0.52
35:BA:72:U:O2'	35:BA:73:A:H5'	2.09	0.52
8:AH:23:SER:HA	8:AH:63:LEU:HD22	1.91	0.52
35:DA:879:G:H2'	35:DA:880:G:C8	2.43	0.52
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.09	0.52
34:B9:11:CYS:CB	34:B9:13:LYS:H	2.23	0.52
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.23	0.52
41:BG:52:ILE:HG22	41:BG:54:GLU:CG	2.40	0.52
1:AA:1191:A:OP2	3:AC:3:ASN:ND2	2.43	0.52
35:DA:963:U:H2'	35:DA:964:C:H6	1.74	0.52
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.45	0.52
1:AA:275:G:O2'	1:AA:276:G:H5'	2.08	0.52
55:DW:1:MET:CE	55:DW:2:GLU:H	2.23	0.52
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.75	0.52
4:CD:79:PHE:CZ	4:CD:204:ILE:HD13	2.45	0.52
35:DA:229:A:H3'	35:DA:230:U:H5'	1.92	0.52
35:BA:909:A:H2'	35:BA:912:C:H5	1.74	0.52
50:BR:87:TYR:HD1	50:BR:90:ARG:HD2	1.75	0.52
4:AD:172:PRO:HG2	6:CF:15:ASP:OD2	2.08	0.52
35:BA:272(J):C:H42	35:BA:363(A):A:N6	2.06	0.52
35:DA:1065:U:O2'	35:DA:1066:U:H5'	2.09	0.52
42:BH:86:GLU:HA	42:BH:132:ARG:HA	1.92	0.52
1:CA:451:A:N6	1:CA:480:U:H2'	2.25	0.52
35:BA:1958:C:O2'	35:BA:1959:G:H5'	2.08	0.52
1:CA:767:A:H2'	1:CA:768:A:O4'	2.09	0.52
9:CI:23:ASN:HD22	9:CI:23:ASN:N	2.06	0.52
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.09	0.52
35:DA:207:A:H2'	35:DA:208:C:O4'	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:760:G:H2'	35:DA:761:A:O4'	2.10	0.52
18:AR:36:ASN:HB3	18:AR:39:VAL:CG2	2.39	0.52
33:D8:59:LYS:HG3	48:DP:50:ARG:HB2	1.91	0.52
35:DA:598:G:H5''	48:DP:15:ARG:CD	2.21	0.52
35:BA:2287:A:H2	35:BA:2346:A:C2	2.27	0.52
40:BF:199:TRP:O	40:BF:203:GLN:HG2	2.10	0.52
52:BT:89:VAL:HG21	52:BT:91:ARG:HH21	1.74	0.52
40:DF:21:ALA:O	40:DF:23:ASP:N	2.41	0.52
40:DF:83:PHE:O	40:DF:84:VAL:HB	2.10	0.52
41:BG:103:LEU:HD23	41:BG:106:LEU:HD22	1.91	0.52
52:DT:24:PRO:HA	52:DT:49:VAL:HG13	1.91	0.52
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.25	0.52
45:DK:95:LYS:N	45:DK:95:LYS:HD2	2.24	0.52
54:BV:19:LYS:HG3	54:BV:20:LEU:H	1.73	0.52
19:CS:11:VAL:HG22	19:CS:16:LEU:HD11	1.92	0.52
47:BO:53:LYS:H	47:BO:53:LYS:HE3	1.71	0.52
58:BZ:7:ALA:C	58:BZ:8:TYR:CD1	2.83	0.52
20:CT:100:ILE:CD1	20:CT:100:ILE:H	2.22	0.52
38:BD:31:LYS:O	38:BD:36:PRO:HD3	2.09	0.52
35:DA:654(N):G:H2'	35:DA:654(O):G:O4'	2.10	0.52
20:AT:44:ALA:HB3	20:AT:91:LEU:HD12	1.91	0.52
12:CL:39:VAL:O	12:CL:56:ALA:HA	2.10	0.52
52:BT:62:THR:HA	52:BT:74:ARG:O	2.09	0.52
52:DT:11:GLU:H	52:DT:11:GLU:CD	2.13	0.52
5:CE:115:VAL:HG12	5:CE:116:THR:N	2.24	0.52
11:AK:111:ASP:OD2	18:AR:84:LYS:HE3	2.10	0.52
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.10	0.52
1:AA:1497:G:O2'	1:AA:1498:U:H5'	2.09	0.52
14:CN:9:LYS:HA	14:CN:12:ARG:HD3	1.91	0.52
2:CB:109:SER:O	2:CB:112:VAL:N	2.41	0.52
49:DQ:1:MET:O	49:DQ:2:LEU:CB	2.57	0.52
35:BA:2262:U:H2'	35:BA:2263:C:H5'	1.90	0.52
47:BO:16:ALA:HA	47:BO:46:ALA:HB2	1.91	0.52
42:BH:116:GLU:HG3	42:BH:117:PRO:HD2	1.92	0.52
48:BP:65:ARG:N	48:BP:65:ARG:HD2	2.20	0.52
57:BY:16:ALA:HA	57:BY:21:LYS:CD	2.39	0.52
40:BF:132:VAL:CG1	40:BF:133:ASN:H	2.17	0.52
39:DE:184:VAL:HG12	39:DE:185:LYS:H	1.74	0.52
45:DK:109:LYS:O	45:DK:112:MET:HG2	2.09	0.52
45:DK:98:ARG:CD	45:DK:139:VAL:HG22	2.40	0.52
35:DA:1316:U:H2'	35:DA:1317:A:H8	1.75	0.52
1:CA:1151:A:H2'	1:CA:1152:A:H8	1.74	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:267:C:OP2	17:CQ:67:LYS:HD2	2.10	0.52
35:DA:69:C:O2	35:DA:69:C:H2'	2.09	0.52
35:DA:1046:A:C2	44:DJ:8:UNK:HA	2.43	0.52
1:CA:1288:A:O4'	1:CA:1353:G:H4'	2.10	0.52
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.56	0.52
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.92	0.52
35:DA:1384:A:N3	35:DA:1405:U:H1'	2.25	0.52
1:CA:851:G:H2'	1:CA:852:G:H8	1.74	0.52
4:AD:79:PHE:HA	4:AD:93:PHE:CD2	2.43	0.52
35:BA:1100:C:H2'	35:BA:1101:U:H5'	1.91	0.52
41:DG:70:VAL:CG1	41:DG:71:THR:N	2.72	0.52
1:CA:381:C:H2'	1:CA:382:A:C8	2.45	0.52
24:AY:326:THR:HG23	24:AY:328:LEU:H	1.74	0.52
1:AA:274:A:O2'	1:AA:275:G:C8	2.60	0.52
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.25	0.52
35:BA:2192:G:H2'	35:BA:2193:G:H5''	1.91	0.52
59:D4:64:LYS:HA	59:D4:64:LYS:HE3	1.92	0.52
35:DA:1332:G:C8	35:DA:1332:G:H5''	2.45	0.52
1:CA:1300:G:O2'	1:CA:1301:U:P	2.67	0.52
1:AA:946:A:H2'	1:AA:947:G:C8	2.44	0.52
49:BQ:97:VAL:HG21	49:BQ:103:MET:HE3	1.92	0.52
22:CV:24:G:C6	22:CV:25:C:C4	2.98	0.52
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.30	0.52
13:CM:7:VAL:O	13:CM:9:ILE:HD12	2.10	0.52
31:D6:9:LEU:HD23	31:D6:9:LEU:C	2.30	0.52
30:D5:40:LYS:CE	30:D5:46:CYS:HB3	2.40	0.52
60:DI:81:VAL:HA	60:DI:145:VAL:C	2.29	0.52
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.90	0.52
24:AY:19:ILE:N	24:AY:20:PRO:HD2	2.25	0.52
24:AY:88:LYS:CD	24:AY:91:LEU:HD23	2.37	0.52
1:AA:509:A:H5'	4:AD:54:TYR:CD2	2.45	0.52
48:BP:130:PHE:N	48:BP:130:PHE:HD2	2.08	0.52
42:BH:89:ILE:HD11	42:BH:129:THR:HB	1.90	0.52
54:DV:18:LEU:HD12	54:DV:18:LEU:N	2.24	0.52
52:BT:50:ILE:HD12	52:BT:50:ILE:N	2.23	0.52
52:DT:74:ARG:HB3	52:DT:76:PHE:CE1	2.44	0.52
57:DY:26:LYS:HG2	57:DY:27:VAL:N	2.22	0.52
57:DY:40:GLU:HA	57:DY:40:GLU:OE2	2.10	0.52
60:DI:69:LYS:HE2	60:DI:136:VAL:CB	2.35	0.52
24:CY:88:LYS:N	24:CY:89:PRO:HD2	2.25	0.52
19:CS:20:LEU:CA	19:CS:23:ASN:HD22	2.13	0.52
42:DH:30:LYS:HE3	42:DH:81:GLU:HG2	1.92	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:49:ALA:HB1	20:CT:100:ILE:HD13	1.90	0.52
35:DA:2808:U:C2'	35:DA:2809:A:H5'	2.39	0.52
35:BA:1686:C:H2'	35:BA:1687:G:O4'	2.10	0.52
48:BP:122:PRO:HA	48:BP:141:ALA:O	2.10	0.52
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.45	0.52
27:D2:43:GLN:O	27:D2:44:LEU:HB2	2.09	0.52
46:BN:23:LEU:HD13	46:BN:98:VAL:HG12	1.91	0.52
35:BA:2112:G:H2'	35:BA:2113:U:O4'	2.10	0.52
13:AM:108:ARG:HH12	13:AM:111:LYS:HB2	1.75	0.52
26:B1:30:VAL:H	35:BA:2396:G:C4'	2.23	0.52
42:BH:41:MET:HG2	42:BH:54:ARG:HA	1.91	0.52
22:AV:68:C:H2'	22:AV:69:G:H5'	1.91	0.52
2:AB:167:PRO:HG3	2:AB:188:ALA:CB	2.40	0.52
38:BD:8:PRO:HB3	38:BD:14:ARG:CB	2.39	0.52
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.05	0.52
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.90	0.52
2:CB:82:ARG:HB3	2:CB:94:ASN:HD21	1.74	0.52
1:CA:1031:G:O2'	1:CA:1032:G:H5'	2.09	0.52
21:CU:6:ARG:HH21	21:CU:15:ARG:HH21	1.56	0.52
56:DX:51:VAL:HA	56:DX:82:GLN:O	2.10	0.52
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.45	0.52
38:BD:150:LYS:HE3	38:BD:150:LYS:HA	1.89	0.52
35:BA:2515:C:O2'	35:BA:2516:G:H5'	2.10	0.52
35:DA:2846:G:OP2	52:DT:54:ARG:HB2	2.10	0.52
1:CA:745:C:O2'	1:CA:746:A:H5'	2.08	0.52
45:BK:109:LYS:O	45:BK:112:MET:HG2	2.10	0.52
35:BA:631:A:H2'	35:BA:632:A:O4'	2.10	0.52
36:DB:17:C:C2'	36:DB:18:G:H5'	2.40	0.52
51:BS:76:LYS:O	51:BS:80:LEU:HD13	2.09	0.52
35:BA:1109:C:N3	35:BA:1110:G:N2	2.58	0.52
1:AA:922:G:H2'	1:AA:923:A:C8	2.45	0.52
39:DE:108:SER:OG	39:DE:163:GLU:HG2	2.10	0.52
1:CA:829:G:H2'	1:CA:830:G:H8	1.74	0.52
35:BA:654:A:N3	35:BA:654(A):G:H1'	2.25	0.52
35:DA:1889:A:O2'	35:DA:2087:G:H5'	2.10	0.52
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	1.91	0.52
43:BI:104:GLN:C	43:BI:105:HIS:ND1	2.63	0.52
36:DB:4:C:H2'	36:DB:5:C:H6	1.74	0.52
1:AA:663:A:H5''	18:AR:61:LYS:NZ	2.25	0.52
22:AV:31:A:H2'	22:AV:32:U:C6	2.45	0.52
4:AD:49:ARG:HD3	4:AD:50:ARG:H	1.73	0.52
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.28	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1239:A:H62	1:CA:1299:A:N6	2.08	0.52
35:BA:1509(A):A:O2'	35:BA:1509(B):A:H5'	2.10	0.52
35:BA:2358:G:H1	48:BP:55:ARG:HH22	1.56	0.52
6:AF:6:VAL:C	6:AF:7:ASN:HD22	2.12	0.52
46:BN:18:ALA:HB1	46:BN:21:LYS:CG	2.40	0.52
41:DG:149:VAL:HG23	41:DG:149:VAL:O	2.10	0.52
37:BC:75:LEU:HB3	37:BC:120:MET:HA	1.92	0.52
50:DR:107:ASP:C	50:DR:107:ASP:OD2	2.46	0.52
1:CA:1221:G:O2'	1:CA:1222:G:H5'	2.09	0.52
26:B1:56:GLN:CA	26:B1:56:GLN:HE21	2.10	0.52
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.90	0.52
42:BH:35:VAL:HG13	42:BH:71:LEU:HD22	1.92	0.52
31:B6:35:GLU:HB3	31:B6:51:GLU:HG3	1.91	0.52
31:D6:26:ASN:ND2	31:D6:32:ASN:OD1	2.43	0.52
41:BG:111:LEU:CD2	41:BG:120:LEU:HD21	2.40	0.52
4:CD:11:LEU:HD23	4:CD:11:LEU:H	1.75	0.52
45:BK:19:PRO:O	45:BK:22:PRO:HD2	2.10	0.52
35:BA:573:G:O2'	35:BA:574:C:H3'	2.10	0.52
35:BA:271(L):U:H4'	35:BA:271(M):G:C5	2.45	0.52
9:CI:53:VAL:HG11	9:CI:92:TYR:CE2	2.45	0.52
10:CJ:24:VAL:HG12	10:CJ:28:ARG:HD2	1.90	0.52
41:DG:98:ARG:HA	41:DG:101:ILE:HD12	1.91	0.52
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.92	0.52
52:BT:50:ILE:HD11	52:BT:64:ARG:HB2	1.91	0.52
52:DT:41:ARG:HB3	52:DT:41:ARG:CZ	2.40	0.52
51:DS:89:ARG:NH1	51:DS:92:TYR:HA	2.11	0.52
37:BC:58:VAL:C	37:BC:59:ARG:HD3	2.30	0.52
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.11	0.52
35:BA:1076:C:H2'	35:BA:1077:A:C8	2.45	0.52
9:AI:100:GLY:C	9:AI:102:LEU:H	2.12	0.52
27:D2:2:LYS:HA	27:D2:5:GLU:OE1	2.09	0.52
26:D1:88:LYS:NZ	26:D1:92:LYS:CB	2.67	0.52
19:CS:20:LEU:HA	19:CS:23:ASN:HB3	1.92	0.52
2:CB:220:ASP:O	2:CB:222:ILE:N	2.43	0.52
1:AA:59:A:N6	1:AA:331:G:H1'	2.24	0.52
8:CH:1:MET:HE2	8:CH:1:MET:N	2.25	0.52
24:CY:139:MET:HE2	24:CY:341:LEU:HD11	1.91	0.52
42:BH:30:LYS:HE3	42:BH:81:GLU:HG2	1.91	0.52
8:AH:1:MET:N	8:AH:1:MET:HE2	2.24	0.52
22:CW:49:C:C2'	22:CW:50:U:H5'	2.39	0.52
3:CC:52:LEU:CD2	3:CC:52:LEU:H	2.18	0.52
3:CC:89:GLU:HG3	3:CC:93:LYS:HZ1	1.69	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:110:PHE:CE2	4:AD:148:VAL:HG23	2.45	0.52
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.92	0.52
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.90	0.52
41:DG:111:LEU:HD21	41:DG:120:LEU:HD21	1.91	0.52
48:BP:100:LEU:HD22	48:BP:100:LEU:N	2.24	0.52
48:BP:125:VAL:CG1	48:BP:138:LEU:HD21	2.40	0.52
20:AT:25:ARG:O	20:AT:29:LYS:HE3	2.09	0.52
12:AL:59:ARG:HA	12:AL:65:GLU:HG3	1.92	0.52
35:BA:2099:U:O2	35:BA:2099:U:C2'	2.57	0.52
35:BA:1640:C:H2'	35:BA:1641:A:O4'	2.10	0.52
35:BA:2136:C:H2'	35:BA:2137:C:H6	1.75	0.52
17:CQ:21:VAL:HG21	17:CQ:59:ILE:HD11	1.91	0.52
45:BK:58:THR:HG22	45:BK:59:ILE:N	2.25	0.52
42:DH:20:ALA:CB	42:DH:21:PRO:CD	2.87	0.52
40:DF:160:ASN:CG	40:DF:163:VAL:HG23	2.31	0.52
1:CA:639:G:H2'	1:CA:640:A:H8	1.74	0.52
8:AH:35:ILE:O	8:AH:39:LEU:CD2	2.57	0.52
10:AJ:32:ALA:H	10:AJ:78:ASN:ND2	2.07	0.52
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.62	0.52
38:BD:125:ILE:O	38:BD:125:ILE:HG22	2.10	0.52
39:BE:131:ALA:C	39:BE:133:LYS:N	2.63	0.52
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.92	0.52
11:AK:18:ARG:O	11:AK:32:ILE:HG22	2.10	0.52
1:CA:741:G:H5'	15:CO:39:LEU:HD23	1.92	0.52
35:DA:644:A:H4'	35:DA:645:C:C5	2.45	0.52
10:AJ:13:HIS:C	10:AJ:15:THR:H	2.13	0.52
52:DT:121:ILE:HG22	52:DT:122:ASP:N	2.24	0.52
21:AU:6:ARG:HH21	21:AU:15:ARG:HH21	1.56	0.52
56:BX:90:GLU:O	56:BX:93:GLU:HB2	2.09	0.52
35:DA:1429:G:H2'	35:DA:1430:C:C6	2.45	0.52
18:CR:87:ARG:HG2	18:CR:87:ARG:O	2.10	0.52
45:DK:131:ALA:C	45:DK:133:SER:H	2.12	0.52
11:CK:51:LYS:N	11:CK:51:LYS:HD3	2.25	0.52
35:BA:2354:G:H2'	35:BA:2355:C:H6	1.75	0.52
4:AD:68:TYR:CZ	4:AD:97:LEU:HD22	2.43	0.52
1:CA:453:A:O2'	1:CA:454:C:C6	2.60	0.52
11:AK:114:VAL:HG13	11:AK:114:VAL:O	2.10	0.52
55:BW:9:TYR:CD2	55:BW:9:TYR:N	2.77	0.52
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.92	0.52
45:DK:27:LEU:HD23	45:DK:27:LEU:H	1.75	0.52
1:AA:35:G:N2	12:AL:118:SER:OG	2.33	0.52
19:AS:58:VAL:HG21	19:AS:75:ALA:CB	2.40	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DK:41:PHE:C	45:DK:43:ALA:H	2.13	0.52
55:DW:55:ALA:O	55:DW:58:ALA:HB3	2.10	0.52
50:DR:26:LYS:HE2	50:DR:71:GLN:H	1.73	0.52
35:BA:2625:G:H2'	35:BA:2626:C:O4'	2.10	0.52
35:DA:20:C:O2'	35:DA:21:A:H5'	2.09	0.52
35:BA:845:G:O5'	35:BA:845:G:H8	1.92	0.52
50:BR:26:LYS:HE2	50:BR:71:GLN:H	1.74	0.52
44:BJ:22:UNK:CB	44:BJ:119:UNK:HA	2.40	0.52
9:CI:10:ARG:HD3	9:CI:75:ASP:HB3	1.91	0.52
21:CU:7:ARG:O	21:CU:8:THR:HG23	2.10	0.52
1:CA:1027:C:H2'	1:CA:1028:C:C5	2.44	0.52
41:DG:181:ARG:HD2	41:DG:181:ARG:O	2.10	0.52
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.25	0.52
45:BK:53:VAL:HG23	45:BK:53:VAL:O	2.10	0.52
15:AO:38:ARG:HG2	15:AO:38:ARG:HH11	1.75	0.52
40:BF:107:LYS:HE3	40:BF:205:ARG:O	2.09	0.52
26:D1:80:LEU:CD1	26:D1:82:LEU:HD21	2.40	0.52
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.74	0.52
35:DA:1075:C:H2'	35:DA:1076:C:H6	1.74	0.52
58:DZ:165:VAL:CG1	58:DZ:166:SER:N	2.72	0.52
59:D4:60:GLU:O	59:D4:61:VAL:C	2.48	0.52
33:B8:36:LYS:HE2	33:B8:40:GLU:OE2	2.10	0.52
31:D6:28:ARG:NH1	31:D6:28:ARG:CB	2.67	0.52
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.73	0.52
40:DF:24:LEU:CB	40:DF:25:PRO:CD	2.87	0.52
4:AD:31:CYS:SG	4:AD:33:MET:HB3	2.50	0.52
41:BG:61:ALA:C	41:BG:63:ILE:H	2.13	0.52
39:BE:132:HIS:CG	39:BE:135:HIS:HE2	2.27	0.52
38:BD:242:ARG:NH1	38:BD:242:ARG:HG2	2.25	0.52
31:D6:36:LEU:HD23	31:D6:36:LEU:N	2.25	0.52
37:DC:78:ALA:HA	37:DC:82:LYS:HD2	1.91	0.52
36:BB:95:C:C2'	36:BB:96:U:H6	2.15	0.52
60:DI:135:GLU:HG3	60:DI:136:VAL:HG23	1.91	0.52
37:DC:59:ARG:HG2	37:DC:62:VAL:CG2	2.40	0.52
35:DA:99:U:C6	35:DA:102:G:N2	2.78	0.52
52:BT:3:ARG:HG2	52:BT:6:LEU:N	2.16	0.52
4:CD:138:TYR:C	4:CD:138:TYR:HD2	2.12	0.52
19:AS:20:LEU:CA	19:AS:23:ASN:HB3	2.40	0.52
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.15	0.52
35:BA:142:A:H8	35:BA:1595:G:H21	1.55	0.52
3:AC:87:LEU:HA	3:AC:90:GLU:HG2	1.91	0.52
7:CG:20:ASP:O	7:CG:24:THR:HG23	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:370:C:N4	1:CA:391:G:N1	2.54	0.52
35:BA:1437:C:H6	35:BA:1437:C:H5'	1.73	0.52
47:BO:101:PRO:HD2	52:BT:70:VAL:HB	1.92	0.52
39:BE:101:ARG:HA	39:BE:170:LEU:O	2.10	0.52
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.25	0.52
10:AJ:32:ALA:H	10:AJ:78:ASN:HD21	1.56	0.52
6:AF:50:TYR:HB2	6:AF:51:PRO:HD2	1.91	0.52
45:BK:15:GLY:HA2	45:BK:42:ASN:OD1	2.10	0.52
22:CW:71:G:H2'	22:CW:72:C:O4'	2.10	0.52
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.44	0.52
12:AL:119:LYS:C	12:AL:120:TYR:HD1	2.12	0.52
38:BD:161:THR:O	38:BD:162:SER:HB3	2.10	0.52
1:CA:165:C:O2'	1:CA:166:G:H5'	2.10	0.52
35:DA:1286:A:C2'	35:DA:1288:U:OP2	2.57	0.52
42:DH:103:LEU:CD1	42:DH:104:GLU:H	2.23	0.52
35:BA:740:U:H2'	35:BA:741:G:C8	2.45	0.52
49:DQ:114:ALA:O	49:DQ:116:GLU:N	2.43	0.52
24:CY:166:TYR:CD1	24:CY:167:ALA:N	2.78	0.52
35:DA:256:A:H2'	35:DA:257:A:H8	1.75	0.52
1:CA:985:C:H2'	1:CA:986:A:C8	2.45	0.52
35:BA:30:G:H2'	35:BA:31:C:C6	2.44	0.52
24:CY:297:ALA:C	24:CY:299:ARG:H	2.12	0.52
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.74	0.52
35:DA:715:G:H2'	35:DA:716:A:O4'	2.10	0.52
4:CD:191:ARG:C	4:CD:191:ARG:HD2	2.29	0.52
35:DA:2668:G:O2'	35:DA:2669:G:H5'	2.09	0.52
35:DA:724:U:O2'	35:DA:725:G:H5'	2.10	0.52
35:BA:582:G:H2'	35:BA:583:G:C8	2.45	0.52
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.75	0.52
1:CA:946:A:H2'	1:CA:947:G:C8	2.45	0.52
24:AY:286:LEU:HD23	24:AY:286:LEU:O	2.09	0.52
39:DE:104:VAL:HG11	39:DE:188:VAL:HG21	1.92	0.52
35:BA:1991:U:H2'	35:BA:1992:G:H5''	1.91	0.52
35:DA:271(A):A:H3'	35:DA:271(B):C:C6	2.45	0.52
29:B4:60:GLU:O	29:B4:61:VAL:C	2.49	0.52
28:D3:2:PRO:HG2	28:D3:4:LEU:HG	1.91	0.52
35:BA:613:G:H5'	35:BA:613:G:H8	1.75	0.52
4:AD:19:LEU:HB3	4:AD:21:LEU:HG	1.91	0.52
41:DG:51:ARG:CZ	41:DG:53:LEU:HG	2.39	0.52
18:AR:58:LEU:HB3	18:AR:62:GLU:HB2	1.91	0.52
41:BG:38:VAL:HG13	41:BG:93:THR:HG23	1.91	0.52
53:DU:88:ILE:HB	53:DU:90:VAL:CG2	2.38	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:94:TYR:CD2	42:BH:107:VAL:HB	2.45	0.52
57:BY:2:ARG:O	57:BY:4:LYS:HG3	2.09	0.52
1:CA:1178:G:P	9:CI:93:ARG:HH21	2.33	0.52
9:CI:5:TYR:HE2	9:CI:16:ARG:HG2	1.75	0.52
57:BY:31:LEU:CB	57:BY:32:PRO:HA	2.37	0.52
38:DD:242:ARG:HG2	38:DD:242:ARG:NH1	2.25	0.52
35:DA:1528(A):A:N7	35:DA:1529:G:H8	2.08	0.52
56:BX:11:PRO:O	56:BX:13:LEU:HG	2.10	0.52
37:BC:59:ARG:HG2	37:BC:62:VAL:CG2	2.40	0.52
54:BV:19:LYS:HD3	54:BV:22:VAL:HG23	1.92	0.52
46:DN:24:GLY:O	46:DN:28:THR:HG22	2.10	0.52
35:DA:2123:G:H4'	37:DC:166:ASP:CB	2.40	0.52
50:DR:2:ARG:HH12	50:DR:5:LYS:HZ1	1.56	0.52
2:CB:214:ILE:O	2:CB:218:ALA:HB2	2.10	0.52
1:AA:1363(A):A:C4'	1:AA:1364:U:H5''	2.34	0.52
52:DT:50:ILE:HD11	52:DT:64:ARG:HB2	1.92	0.52
35:BA:1568:G:H5''	38:BD:61:LEU:CD1	2.34	0.52
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.33	0.52
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.40	0.52
20:AT:53:LEU:O	20:AT:56:MET:N	2.43	0.52
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.78	0.52
20:CT:45:GLN:CB	20:CT:91:LEU:HD13	2.35	0.52
54:DV:66:ARG:HG2	54:DV:88:ARG:CB	2.37	0.52
48:DP:71:VAL:HB	48:DP:72:PRO:CD	2.37	0.52
48:DP:125:VAL:CG1	48:DP:138:LEU:HD21	2.40	0.52
5:CE:6:PHE:N	5:CE:6:PHE:CD1	2.78	0.52
23:AX:18:A:N3	23:AX:18:A:H2'	2.25	0.52
1:AA:411:A:H2'	1:AA:412:A:H4'	1.92	0.52
35:BA:871:U:H4'	49:BQ:69:PHE:CD2	2.44	0.52
27:B2:42:GLY:O	27:B2:44:LEU:N	2.39	0.52
1:CA:612:C:O2'	1:CA:613:C:H5'	2.10	0.52
1:CA:624:C:H2'	1:CA:625:G:H8	1.74	0.52
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.22	0.52
3:AC:64:VAL:HG12	3:AC:66:VAL:CG2	2.40	0.52
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	2.24	0.52
1:CA:834:C:H2'	1:CA:835:U:C6	2.45	0.52
42:BH:137:ASP:HB3	42:BH:140:LYS:HB3	1.92	0.52
20:CT:74:LYS:C	20:CT:76:ALA:N	2.63	0.52
26:B1:45:ASN:ND2	26:B1:47:GLN:HE21	2.08	0.52
1:AA:1065:U:H5''	1:AA:1190:G:H21	1.75	0.52
50:DR:18:LEU:CD1	50:DR:22:ARG:NE	2.73	0.52
58:BZ:29:TYR:O	58:BZ:30:ASN:HB3	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:381:C:H2'	1:AA:382:A:C8	2.45	0.52
24:CY:150:GLN:CB	24:CY:172:LYS:HB2	2.40	0.52
35:DA:1510:G:H2'	35:DA:1511:C:C6	2.45	0.52
18:CR:47:THR:HB	18:CR:49:LYS:HG2	1.91	0.52
36:DB:45:A:H1'	41:DG:95:ARG:CZ	2.39	0.52
35:DA:729:G:H5'	35:DA:730:C:H5''	1.92	0.52
46:BN:26:LEU:HD11	46:BN:30:ILE:HD11	1.92	0.52
16:AP:64:ALA:O	16:AP:65:GLN:C	2.48	0.52
2:CB:134:GLU:OE1	2:CB:138:LEU:HD11	2.09	0.52
35:BA:265:A:H1'	35:BA:266:G:O4'	2.10	0.52
35:BA:2029:G:H2'	35:BA:2031:A:OP1	2.09	0.52
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.44	0.52
39:DE:128:SER:O	39:DE:129:HIS:HB2	2.09	0.52
35:BA:1132:A:H2'	35:BA:1133:U:C6	2.45	0.52
4:CD:165:MET:C	4:CD:167:GLY:H	2.13	0.52
12:AL:126:LYS:C	12:AL:128:ALA:H	2.12	0.52
51:BS:12:PHE:HD1	51:BS:12:PHE:H	1.58	0.52
50:DR:64:ARG:O	50:DR:68:ARG:HG3	2.10	0.52
1:CA:407:G:H2'	1:CA:408:A:H8	1.75	0.52
26:B1:51:VAL:HG12	26:B1:58:ILE:HG22	1.91	0.51
48:DP:33:ARG:O	48:DP:34:GLY:O	2.27	0.51
1:AA:376:G:H2'	1:AA:377:G:H8	1.75	0.51
28:D3:2:PRO:CG	28:D3:58:VAL:HG12	2.40	0.51
41:BG:137:GLU:HG2	41:BG:152:LEU:HD21	1.91	0.51
41:BG:134:GLY:O	41:BG:135:LEU:HD12	2.10	0.51
41:BG:173:LEU:HB3	41:BG:178:PHE:CD2	2.45	0.51
4:CD:19:LEU:HB3	4:CD:21:LEU:HG	1.91	0.51
41:DG:98:ARG:O	41:DG:101:ILE:HD13	2.11	0.51
31:B6:37:ARG:HH11	31:B6:37:ARG:HG2	1.75	0.51
37:DC:72:VAL:HG12	37:DC:74:VAL:HG23	1.92	0.51
37:DC:76:ALA:C	37:DC:78:ALA:H	2.13	0.51
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.92	0.51
35:DA:1841:U:H1'	38:DD:244:ARG:HH22	1.75	0.51
37:DC:37:PHE:O	37:DC:39:GLU:N	2.43	0.51
2:CB:54:THR:CG2	2:CB:201:ILE:HD11	2.32	0.51
56:DX:9:LEU:HD12	56:DX:30:VAL:O	2.11	0.51
51:BS:85:VAL:CG2	51:BS:106:ARG:HB2	2.37	0.51
24:CY:139:MET:CE	24:CY:341:LEU:HD11	2.39	0.51
22:AW:25:C:H2'	22:AW:26:A:C8	2.45	0.51
38:DD:31:LYS:O	38:DD:36:PRO:HD3	2.10	0.51
39:DE:2:LYS:HA	39:DE:84:PHE:CE2	2.44	0.51
1:CA:975:A:C4'	1:CA:976:G:H5''	2.35	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:27:LYS:O	13:AM:30:ALA:HB3	2.10	0.51
20:AT:89:ARG:NH2	20:AT:104:LEU:HD11	2.21	0.51
57:BY:87:LYS:HD3	57:BY:89:PHE:HD1	1.75	0.51
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.10	0.51
33:D8:48:PHE:HZ	35:DA:650:C:H5'	1.75	0.51
48:DP:122:PRO:HA	48:DP:141:ALA:O	2.10	0.51
48:DP:138:LEU:C	48:DP:140:ALA:N	2.62	0.51
2:AB:109:SER:HA	2:AB:112:VAL:HG23	1.92	0.51
2:AB:111:ARG:HH11	2:AB:111:ARG:HG2	1.76	0.51
45:DK:9:LYS:O	45:DK:10:LEU:HB3	2.10	0.51
45:BK:125:ARG:HH11	45:BK:125:ARG:HG2	1.75	0.51
35:BA:797:C:OP2	40:BF:62:ARG:HG3	2.11	0.51
3:AC:101:LEU:HD23	3:AC:101:LEU:O	2.10	0.51
16:CP:67:THR:OG1	16:CP:70:ALA:HB2	2.09	0.51
35:BA:879:G:H2'	35:BA:880:G:C8	2.42	0.51
43:BI:29:TYR:HD2	43:BI:30:LEU:HD23	1.75	0.51
1:CA:925:G:H4'	1:CA:1502:A:C2	2.45	0.51
35:BA:1286:A:C2'	35:BA:1288:U:OP2	2.58	0.51
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.25	0.51
2:AB:143:GLU:O	2:AB:147:LYS:HB2	2.10	0.51
1:AA:1142:G:H2'	1:AA:1143:G:H5'	1.92	0.51
1:AA:1396:A:H4'	1:AA:1398:A:C1'	2.39	0.51
50:DR:41:ALA:O	50:DR:43:GLU:N	2.43	0.51
44:BJ:18:UNK:C	44:BJ:20:UNK:H	2.23	0.51
1:AA:1337:G:H5''	1:AA:1338:G:OP2	2.09	0.51
2:AB:231:GLU:HB2	2:AB:232:PRO:CD	2.39	0.51
16:CP:64:ALA:O	16:CP:65:GLN:C	2.49	0.51
1:AA:767:A:H2'	1:AA:768:A:O4'	2.09	0.51
1:CA:8:A:C6	4:CD:209:ARG:HA	2.44	0.51
35:BA:2432:A:H2'	35:BA:2433:A:C8	2.45	0.51
35:BA:1142:U:O5'	35:BA:1142:U:H6	1.93	0.51
11:AK:31:THR:O	11:AK:31:THR:HG23	2.10	0.51
35:DA:2776:A:H3'	35:DA:2776:A:OP1	2.10	0.51
35:DA:2057:A:H2'	35:DA:2058:A:O4'	2.11	0.51
26:B1:53:VAL:O	26:B1:55:GLY:N	2.42	0.51
35:DA:1063:G:O2'	45:DK:87:GLY:HA3	2.09	0.51
59:D4:57:ILE:HG22	59:D4:59:VAL:HG23	1.92	0.51
48:BP:30:THR:CG2	48:BP:31:ALA:N	2.57	0.51
40:DF:22:ALA:HA	40:DF:26:ALA:CB	2.34	0.51
35:DA:2307:G:N3	35:DA:2307:G:H3'	2.24	0.51
41:BG:29:TRP:O	41:BG:33:ARG:NH1	2.43	0.51
41:BG:41:GLN:O	41:BG:43:LEU:HD23	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:27:THR:O	52:DT:28:VAL:HG23	2.10	0.51
24:AY:25:ARG:O	24:AY:28:GLU:HB2	2.09	0.51
35:DA:494:G:H21	55:DW:57:ASN:ND2	2.05	0.51
42:DH:89:ILE:HD11	42:DH:129:THR:HB	1.92	0.51
54:BV:6:LYS:HG2	54:BV:37:VAL:CB	2.38	0.51
35:BA:1505:C:H3'	35:BA:1506:C:C6	2.42	0.51
37:BC:59:ARG:N	37:BC:59:ARG:HD3	2.25	0.51
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.24	0.51
27:B2:57:ILE:O	27:B2:58:ALA:C	2.47	0.51
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.39	0.51
58:BZ:67:LEU:N	58:BZ:67:LEU:HD12	2.25	0.51
35:DA:1598:C:H5'	56:DX:36:LYS:CG	2.41	0.51
35:DA:2534:A:H5'	35:DA:2534:A:C8	2.37	0.51
1:AA:959:A:C2'	1:AA:960:U:H4'	2.40	0.51
38:BD:101:GLU:HG3	38:BD:102:LYS:N	2.25	0.51
35:DA:827:U:H2'	35:DA:2068:U:C2	2.45	0.51
3:AC:72:LYS:HG2	3:AC:75:VAL:HG23	1.92	0.51
19:CS:4:SER:O	19:CS:5:LEU:CB	2.57	0.51
20:AT:104:LEU:HD23	20:AT:105:SER:N	2.25	0.51
4:AD:120:LEU:HD23	4:AD:125:HIS:HD2	1.75	0.51
35:DA:2136:C:H2'	35:DA:2137:C:H6	1.74	0.51
2:CB:109:SER:HA	2:CB:112:VAL:HG23	1.93	0.51
1:CA:728:A:H2'	1:CA:729:A:C8	2.44	0.51
49:DQ:2:LEU:HG	49:DQ:69:PHE:HE1	1.75	0.51
35:DA:2634:G:O3'	39:DE:77:ILE:HG21	2.10	0.51
24:AY:249:VAL:CG2	24:AY:250:ARG:N	2.74	0.51
47:BO:105:GLU:OE1	47:BO:105:GLU:N	2.44	0.51
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.44	0.51
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.10	0.51
57:DY:16:ALA:HA	57:DY:21:LYS:CD	2.38	0.51
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	1.91	0.51
4:CD:128:VAL:CG1	4:CD:129:ASN:N	2.72	0.51
4:CD:128:VAL:CG1	4:CD:129:ASN:H	2.24	0.51
50:BR:63:ARG:HA	50:BR:80:PHE:HE2	1.75	0.51
19:AS:29:ARG:O	19:AS:31:ILE:N	2.43	0.51
45:BK:98:ARG:O	45:BK:99:ILE:HD13	2.09	0.51
35:BA:645:C:C2'	35:BA:645:C:O2	2.58	0.51
7:CG:148:ASN:C	7:CG:150:ALA:N	2.64	0.51
46:BN:10:GLU:OE2	46:BN:11:PRO:HD2	2.11	0.51
1:CA:376:G:O3'	16:CP:5:ARG:NH1	2.43	0.51
8:AH:25:ASP:HB3	8:AH:58:TYR:HB3	1.91	0.51
35:BA:1485:G:O2'	35:BA:1486:A:H5'	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1278:U:H5''	1:AA:1279:A:O4'	2.10	0.51
24:CY:316:LEU:CD2	24:CY:333:PRO:HB2	2.41	0.51
16:CP:72:ARG:NH2	16:CP:73:LEU:HD21	2.25	0.51
53:BU:101:ARG:C	53:BU:102:GLU:HG2	2.30	0.51
4:CD:79:PHE:HA	4:CD:93:PHE:CD2	2.45	0.51
35:BA:956:G:OP2	49:BQ:14:ARG:NH2	2.42	0.51
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.75	0.51
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.46	0.51
1:CA:995:C:O2'	1:CA:996:A:H5'	2.10	0.51
35:DA:107:C:H2'	35:DA:108:U:H6	1.75	0.51
35:DA:1756:G:H4'	35:DA:1758:G:O4'	2.09	0.51
15:CO:36:ILE:HG22	15:CO:37:ASN:HD22	1.74	0.51
51:BS:96:GLY:C	51:BS:98:VAL:H	2.12	0.51
57:DY:97:ARG:NH1	57:DY:97:ARG:HG3	2.24	0.51
13:CM:67:GLU:O	13:CM:69:GLU:N	2.40	0.51
35:DA:1885:A:H3'	35:DA:1886:C:H6	1.75	0.51
31:B6:25:LYS:HD2	33:B8:34:TRP:HZ2	1.75	0.51
31:D6:52:VAL:HG12	31:D6:53:LYS:N	2.25	0.51
33:D8:36:LYS:HE2	33:D8:40:GLU:OE2	2.09	0.51
35:DA:1748:G:H5'	35:DA:1748:G:H8	1.75	0.51
35:BA:2206:G:N2	35:BA:2207:G:C5'	2.69	0.51
53:DU:92:ARG:HD3	54:DV:11:GLN:CG	2.39	0.51
18:CR:58:LEU:HB3	18:CR:62:GLU:HB2	1.92	0.51
35:DA:359:A:H2'	35:DA:360:G:O4'	2.09	0.51
41:DG:173:LEU:HD22	41:DG:178:PHE:CE2	2.46	0.51
31:B6:40:CYS:SG	31:B6:45:LYS:CE	2.98	0.51
5:AE:78:HIS:HE1	5:AE:143:ARG:H	1.59	0.51
8:AH:109:ILE:HD11	8:AH:120:THR:CG2	2.40	0.51
19:AS:62:ILE:HA	19:AS:66:MET:HE3	1.93	0.51
5:CE:67:VAL:HG21	5:CE:140:ARG:HA	1.91	0.51
57:DY:39:VAL:CG1	57:DY:40:GLU:H	2.09	0.51
4:AD:138:TYR:HD2	4:AD:138:TYR:C	2.13	0.51
27:B2:3:LEU:HD13	27:B2:3:LEU:C	2.30	0.51
2:AB:58:ILE:HG22	2:AB:222:ILE:HG12	1.92	0.51
1:CA:360:A:H2'	1:CA:361:G:H8	1.76	0.51
35:BA:1081:U:O2'	45:BK:117:THR:HG21	2.10	0.51
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.30	0.51
35:BA:2636:U:H4'	39:BE:80:GLU:OE2	2.10	0.51
57:DY:87:LYS:HD3	57:DY:89:PHE:HD1	1.76	0.51
52:BT:128:GLU:O	52:BT:129:ARG:C	2.48	0.51
35:BA:2630:G:H21	35:BA:2892:A:H1'	1.76	0.51
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:193:C:O2'	1:AA:194:C:H5'	2.10	0.51
27:B2:50:ILE:C	27:B2:52:ASP:N	2.62	0.51
39:BE:57:LYS:HB3	39:BE:57:LYS:HZ3	1.73	0.51
12:CL:59:ARG:HA	12:CL:65:GLU:HG3	1.92	0.51
35:DA:812:C:O5'	48:DP:25:SER:O	2.29	0.51
49:BQ:2:LEU:HG	49:BQ:69:PHE:HE1	1.76	0.51
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.76	0.51
39:BE:117:MET:O	39:BE:117:MET:HG2	2.11	0.51
12:AL:104:VAL:HG12	12:AL:105:TYR:CD1	2.44	0.51
40:DF:32:LEU:HD11	40:DF:105:VAL:HG13	1.92	0.51
40:BF:160:ASN:CG	40:BF:163:VAL:HG23	2.31	0.51
34:D9:11:CYS:SG	34:D9:32:HIS:ND1	2.83	0.51
1:CA:1007:C:H2'	1:CA:1008:C:C6	2.45	0.51
3:CC:101:LEU:HD23	3:CC:101:LEU:O	2.10	0.51
2:CB:168:THR:HG23	2:CB:192:SER:OG	2.10	0.51
56:DX:15:GLU:CD	56:DX:15:GLU:N	2.61	0.51
1:AA:1000:U:H3'	35:DA:2116:G:O6	2.10	0.51
35:BA:2131:G:H5''	35:BA:2132:U:C5'	2.41	0.51
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.92	0.51
2:CB:166:ASP:HB3	2:CB:169:LYS:CB	2.38	0.51
38:BD:91:ARG:NH1	38:BD:91:ARG:HG2	2.25	0.51
35:DA:176:G:C2'	35:DA:177:G:H5'	2.40	0.51
11:AK:51:LYS:N	11:AK:51:LYS:HD3	2.25	0.51
15:AO:37:ASN:N	15:AO:37:ASN:ND2	2.59	0.51
3:CC:155:GLY:O	3:CC:196:LEU:HD13	2.10	0.51
35:DA:963:U:H2'	35:DA:964:C:C6	2.45	0.51
3:CC:33:LEU:O	3:CC:37:GLN:HG2	2.10	0.51
24:CY:129:ALA:O	24:CY:132:TRP:HB3	2.10	0.51
43:BI:31:LEU:HD13	43:BI:37:VAL:HA	1.92	0.51
1:AA:243:A:O2'	1:AA:244:U:OP2	2.25	0.51
55:DW:9:TYR:CD2	55:DW:9:TYR:N	2.79	0.51
1:CA:922:G:H2'	1:CA:923:A:C8	2.45	0.51
48:BP:97:PRO:O	48:BP:101:VAL:HG12	2.10	0.51
35:BA:2668:G:O2'	35:BA:2669:G:H5'	2.09	0.51
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.45	0.51
38:DD:73:VAL:HG13	38:DD:120:GLY:HA2	1.92	0.51
19:CS:27:GLU:O	19:CS:28:LYS:O	2.28	0.51
35:DA:845:G:O5'	35:DA:845:G:H8	1.94	0.51
44:DJ:30:UNK:O	44:DJ:32:UNK:N	2.43	0.51
35:DA:852:G:O2'	35:DA:853:G:H5'	2.10	0.51
22:CW:41:C:H2'	22:CW:42:C:C6	2.46	0.51
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.25	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:B4:57:ILE:HG22	29:B4:59:VAL:HG23	1.92	0.51
2:CB:30:ARG:C	2:CB:32:ILE:H	2.13	0.51
24:AY:341:LEU:O	24:AY:343:ASP:N	2.44	0.51
30:B5:2:ALA:N	35:BA:2015:A:N3	2.58	0.51
52:BT:91:ARG:HA	52:BT:117:ASP:HB3	1.92	0.51
41:DG:51:ARG:NH1	41:DG:53:LEU:HG	2.26	0.51
41:BG:133:LEU:CD1	41:BG:157:ILE:HD11	2.39	0.51
52:DT:28:VAL:HG13	52:DT:46:GLU:CA	2.38	0.51
42:DH:158:HIS:CE1	42:DH:169:VAL:O	2.62	0.51
31:D6:40:CYS:SG	31:D6:45:LYS:CE	2.99	0.51
57:BY:8:LYS:H	57:BY:8:LYS:CD	2.21	0.51
35:DA:1827:C:OP2	38:DD:222:ARG:NH1	2.43	0.51
47:DO:104:ARG:CZ	47:DO:104:ARG:HB3	2.40	0.51
1:CA:956:U:O2'	1:CA:957:U:H5'	2.10	0.51
9:AI:53:VAL:HG13	9:AI:95:LYS:HZ1	1.75	0.51
60:DI:29:TYR:CE1	60:DI:33:ARG:NE	2.75	0.51
54:BV:22:VAL:O	54:BV:23:GLU:CB	2.58	0.51
27:D2:2:LYS:O	27:D2:5:GLU:N	2.43	0.51
4:AD:88:VAL:O	4:AD:92:VAL:HG23	2.10	0.51
35:DA:2793:G:H22	35:DA:2803:C:H1'	1.74	0.51
2:CB:51:LEU:HD22	2:CB:55:PHE:HE2	1.75	0.51
56:DX:30:VAL:CG1	56:DX:31:HIS:H	2.12	0.51
22:CW:60:U:H2'	22:CW:61:C:H5	1.75	0.51
53:DU:25:TRP:CD1	53:DU:26:GLY:N	2.79	0.51
28:B3:45:GLY:HA2	28:B3:48:GLU:OE2	2.09	0.51
11:AK:88:GLY:O	11:AK:91:ARG:HB2	2.09	0.51
27:D2:16:LEU:O	27:D2:17:SER:O	2.28	0.51
42:BH:20:ALA:HB1	42:BH:21:PRO:HD3	1.89	0.51
45:BK:12:LEU:O	45:BK:52:ILE:HD12	2.10	0.51
35:BA:2511:U:H2'	35:BA:2512:C:C6	2.45	0.51
45:DK:98:ARG:O	45:DK:99:ILE:HD13	2.09	0.51
35:DA:645:C:O2	35:DA:645:C:C2'	2.59	0.51
43:BI:28:ASN:CA	43:BI:32:PRO:HG2	2.40	0.51
35:BA:1300:U:H4'	35:BA:1301:A:O5'	2.10	0.51
7:AG:148:ASN:C	7:AG:150:ALA:N	2.63	0.51
35:DA:1046:A:H2	44:DJ:8:UNK:CA	2.23	0.51
52:BT:118:ARG:O	52:BT:119:LYS:C	2.48	0.51
1:CA:67:C:H2'	1:CA:68:G:H8	1.72	0.51
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.74	0.51
4:CD:162:LEU:HD12	4:CD:181:MET:HE3	1.91	0.51
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.45	0.51
1:AA:829:G:H2'	1:AA:830:G:H8	1.75	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:103:LEU:CG	42:BH:104:GLU:N	2.73	0.51
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.45	0.51
2:CB:142:LEU:HD11	2:CB:146:GLN:NE2	2.26	0.51
9:AI:10:ARG:HD3	9:AI:75:ASP:CB	2.41	0.51
11:CK:120:ARG:NH2	11:CK:126:ARG:HH21	2.08	0.51
1:AA:572:A:H5''	1:AA:917:G:H4'	1.91	0.51
1:AA:245:C:O2'	1:AA:246:A:H5'	2.11	0.51
54:DV:69:LYS:HA	54:DV:87:HIS:O	2.10	0.51
3:AC:25:GLY:C	3:AC:27:LYS:H	2.14	0.51
38:DD:201:HIS:O	38:DD:203:ASN:N	2.43	0.51
39:BE:94:GLU:HG2	39:BE:177:PRO:HB3	1.91	0.51
1:AA:304:U:H2'	1:AA:305:G:C8	2.45	0.51
15:AO:25:THR:HG21	15:AO:70:LEU:HB2	1.91	0.51
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.11	0.51
37:BC:84:LYS:N	37:BC:84:LYS:HD2	2.26	0.51
1:AA:889:A:H5'	1:AA:891:U:H1'	1.93	0.51
48:DP:48:PRO:CD	48:DP:49:ARG:H	2.24	0.51
35:BA:1885:A:H5'	35:BA:1885:A:H8	1.74	0.51
58:BZ:102:LEU:HD13	58:BZ:123:ASP:CA	2.38	0.51
45:DK:94:GLU:CB	58:DZ:112:ARG:HH12	2.22	0.51
13:AM:67:GLU:O	13:AM:69:GLU:N	2.39	0.51
40:BF:3:GLU:HG2	40:BF:19:GLU:CB	2.25	0.51
35:BA:2015:A:H5'	55:BW:92:ARG:NH2	2.25	0.51
40:DF:28:ILE:HD11	40:DF:115:ALA:HB3	1.93	0.51
41:DG:60:LEU:O	41:DG:63:ILE:HG12	2.11	0.51
41:BG:60:LEU:O	41:BG:64:THR:HG22	2.10	0.51
22:CW:11:C:N4	22:CW:24:G:H1	2.07	0.51
54:DV:18:LEU:CG	54:DV:19:LYS:H	2.22	0.51
37:BC:37:PHE:O	37:BC:39:GLU:HG3	2.10	0.51
51:BS:89:ARG:O	51:BS:90:GLY:O	2.28	0.51
35:BA:2534:A:H5'	35:BA:2534:A:C8	2.40	0.51
46:BN:133:GLN:CG	46:BN:135:PRO:HD3	2.31	0.51
10:AJ:38:ILE:CD1	10:AJ:71:LEU:HD23	2.40	0.51
60:DI:5:LEU:HD23	60:DI:36:ALA:HB2	1.91	0.51
27:B2:5:GLU:O	27:B2:9:GLN:OE1	2.28	0.51
52:DT:6:LEU:HD23	52:DT:6:LEU:O	2.10	0.51
19:AS:11:VAL:HG22	19:AS:16:LEU:CD1	2.40	0.51
35:BA:1021:A:H2'	35:BA:1023:U:H5'	1.93	0.51
40:DF:34:TRP:HB2	48:DP:10:PRO:O	2.11	0.51
35:DA:2443:C:O2'	35:DA:2444:G:H5'	2.08	0.51
38:BD:25:THR:O	38:BD:26:LYS:C	2.48	0.51
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.78	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:33:LEU:HD11	38:DD:102:LYS:HD2	1.93	0.51
57:DY:50:ARG:C	57:DY:52:SER:H	2.12	0.51
47:BO:104:ARG:CZ	47:BO:104:ARG:HB3	2.40	0.51
39:BE:30:PRO:O	39:BE:32:PRO:HD3	2.10	0.51
60:DI:120:ILE:O	60:DI:120:ILE:HG23	2.09	0.51
35:DA:2138:C:H1'	35:DA:2154:G:H22	1.76	0.51
51:DS:54:LEU:HA	51:DS:57:LYS:O	2.11	0.51
7:CG:136:LYS:O	7:CG:138:LYS:N	2.44	0.51
45:DK:52:ILE:O	45:DK:52:ILE:HG23	2.11	0.51
50:DR:63:ARG:HA	50:DR:80:PHE:HE2	1.75	0.51
35:BA:1708:C:H2'	35:BA:1709:U:C6	2.45	0.51
42:DH:18:GLU:O	42:DH:24:VAL:HA	2.10	0.51
35:BA:2634:G:O3'	39:BE:77:ILE:HG21	2.10	0.51
42:DH:40:GLU:HB3	42:DH:41:MET:SD	2.49	0.51
12:AL:52:LEU:O	12:AL:54:LYS:HD2	2.10	0.51
13:CM:35:GLU:HG3	13:CM:36:LYS:H	1.75	0.51
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.10	0.51
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.45	0.51
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.93	0.51
25:B0:43:THR:O	25:B0:43:THR:HG23	2.09	0.51
1:CA:473:G:H5''	16:CP:81:ARG:HE	1.74	0.51
38:DD:43:ARG:HD3	38:DD:49:ILE:HG22	1.93	0.51
1:CA:108:G:H5'	1:CA:109:A:C5'	2.40	0.51
35:DA:1300:U:HO2'	35:DA:1301:A:P	2.33	0.51
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.75	0.51
29:B4:38:ALA:HA	29:B4:55:PRO:HA	1.93	0.51
10:CJ:42:THR:HG23	10:CJ:67:THR:O	2.11	0.51
6:CF:11:ASN:ND2	6:CF:86:ARG:NH2	2.58	0.51
1:AA:851:G:H2'	1:AA:852:G:H8	1.75	0.51
35:DA:956:G:OP2	49:DQ:14:ARG:NH2	2.43	0.51
35:BA:633:A:H2'	35:BA:634:C:H5'	1.93	0.51
1:CA:189(A):C:H2'	1:CA:189(B):C:H6	1.74	0.51
41:DG:55:LYS:C	41:DG:57:ALA:N	2.64	0.51
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.62	0.51
36:DB:45:A:H2'	36:DB:45:A:N3	2.25	0.51
3:CC:127:ARG:HG2	3:CC:127:ARG:HH11	1.75	0.51
1:AA:706:A:C5	1:AA:707:C:H5	2.28	0.51
41:BG:101:ILE:HD13	41:BG:101:ILE:C	2.30	0.51
2:CB:231:GLU:HB2	2:CB:232:PRO:HD2	1.93	0.51
58:BZ:42:VAL:HG23	58:BZ:46:LYS:HE3	1.92	0.51
35:DA:1600:C:O2'	35:DA:1601:G:H5'	2.11	0.51
35:DA:519:U:H2'	35:DA:520:G:H8	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BO:1:MET:HB2	47:BO:32:TYR:HB3	1.93	0.51
35:BA:297:C:H2'	35:BA:298:G:O4'	2.11	0.51
35:DA:1268:A:H2'	35:DA:1269:A:O4'	2.11	0.51
44:DJ:18:UNK:C	44:DJ:20:UNK:H	2.24	0.51
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.45	0.51
1:CA:1418:A:C2	1:CA:1483:A:C2	2.98	0.51
25:D0:50:ASN:HB3	25:D0:63:VAL:HG22	1.93	0.51
26:D1:81:LYS:HE2	35:DA:271(H):G:H4'	1.92	0.51
57:BY:97:ARG:HA	57:BY:97:ARG:NE	2.26	0.51
59:D4:57:ILE:HG21	41:DG:142:PRO:HB3	1.91	0.51
31:D6:23:THR:HG21	35:DA:2419:U:C4'	2.39	0.51
31:D6:30:THR:HG21	35:DA:2285:C:H5'	1.92	0.51
60:DI:79:ILE:CG2	60:DI:80:PRO:HD2	2.39	0.51
16:AP:5:ARG:HE	16:AP:22:THR:HG23	1.76	0.51
48:BP:14:LYS:O	48:BP:15:ARG:CG	2.59	0.51
41:DG:154:GLY:O	41:DG:155:MET:CB	2.59	0.51
41:DG:41:GLN:CD	41:DG:60:LEU:HD23	2.31	0.51
41:BG:177:GLY:O	41:BG:179:PRO:HD3	2.10	0.51
24:AY:37:SER:HB3	24:AY:38:LEU:HD22	1.93	0.51
9:CI:46:ALA:HB2	9:CI:74:ILE:HG23	1.90	0.51
45:BK:95:LYS:HD2	45:BK:95:LYS:N	2.26	0.51
31:D6:15:GLU:CG	31:D6:18:ARG:HG3	2.40	0.51
31:D6:20:ASN:ND2	31:D6:21:TYR:N	2.50	0.51
41:DG:101:ILE:HD13	41:DG:102:PHE:H	1.72	0.51
31:B6:15:GLU:O	31:B6:15:GLU:HG2	2.10	0.51
37:DC:78:ALA:CB	37:DC:82:LYS:HD2	2.41	0.51
8:AH:123:GLU:O	8:AH:126:LYS:HB3	2.11	0.51
25:B0:80:HIS:N	25:B0:80:HIS:CD2	2.79	0.51
35:DA:1021:A:H2'	35:DA:1023:U:H5'	1.93	0.51
35:BA:1116:C:H2'	35:BA:1117:G:C5'	2.34	0.51
50:DR:33:ARG:CG	50:DR:115:GLU:HG3	2.34	0.51
52:DT:106:SER:O	52:DT:107:ASP:CB	2.59	0.51
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.10	0.51
38:BD:33:LEU:HD11	38:BD:102:LYS:HD2	1.92	0.51
38:BD:27:THR:CG2	38:BD:83:GLU:HG2	2.41	0.51
38:BD:34:VAL:O	38:BD:35:LYS:CD	2.59	0.51
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.91	0.51
22:CW:16:U:C4	22:CW:18:G:H3'	2.44	0.51
52:BT:33:LYS:HZ2	52:BT:74:ARG:NH2	2.09	0.51
35:BA:914:C:H5'	35:BA:914:C:H6	1.76	0.51
20:CT:45:GLN:HB2	20:CT:91:LEU:HD22	1.92	0.51
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:87:SER:HA	8:CH:93:VAL:HG23	1.91	0.51
51:BS:57:LYS:O	51:BS:58:LEU:HB3	2.11	0.51
35:BA:287:C:H2'	35:BA:288:C:O4'	2.11	0.51
35:DA:1708:C:H2'	35:DA:1709:U:C6	2.45	0.51
35:DA:2883:A:C5'	35:DA:2884:U:H5'	2.41	0.51
2:AB:109:SER:O	2:AB:112:VAL:N	2.44	0.51
58:BZ:79:ARG:HG3	58:BZ:79:ARG:HH11	1.75	0.51
7:AG:77:SER:O	7:AG:78:ARG:HB2	2.11	0.51
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.09	0.51
12:CL:105:TYR:C	12:CL:107:ALA:H	2.13	0.51
35:BA:2579:C:O2'	35:BA:2580:U:H5'	2.11	0.51
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.75	0.51
30:B5:20:ARG:NH1	55:BW:15:ARG:NH2	2.57	0.51
2:AB:167:PRO:HG2	2:AB:192:SER:CB	2.41	0.51
50:BR:77:ARG:O	50:BR:79:LEU:N	2.44	0.51
1:CA:22:G:H2'	1:CA:23:C:H6	1.73	0.51
3:AC:141:VAL:HG11	3:AC:202:ILE:CD1	2.39	0.51
1:CA:1060:C:P	14:CN:45:ARG:HH22	2.33	0.51
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.76	0.51
10:CJ:4:ILE:HD12	10:CJ:74:ILE:HD11	1.93	0.51
1:AA:473:G:H5''	16:AP:81:ARG:HE	1.74	0.51
1:CA:1368:G:O2'	1:CA:1369:C:H5'	2.11	0.51
37:DC:68:LEU:HB2	37:DC:70:LYS:HE2	1.92	0.51
1:CA:909:A:H2'	1:CA:910:C:O4'	2.11	0.51
5:CE:26:PHE:O	5:CE:27:ARG:HB2	2.10	0.51
37:BC:68:LEU:HB2	37:BC:70:LYS:HE2	1.93	0.51
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.45	0.51
35:DA:1291:C:O2'	35:DA:1292:U:H5'	2.11	0.51
35:BA:1448:G:H2'	35:BA:1449:A:H8	1.74	0.51
2:AB:140:HIS:HA	2:AB:143:GLU:CG	2.41	0.51
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.75	0.51
42:DH:103:LEU:HD12	42:DH:104:GLU:H	1.76	0.51
20:CT:10:LEU:HD12	20:CT:11:SER:N	2.26	0.51
46:BN:111:PRO:HG3	46:BN:114:ARG:HH22	1.76	0.51
4:CD:146:ILE:HD12	4:CD:146:ILE:N	2.26	0.51
58:BZ:5:LEU:HD13	58:BZ:47:VAL:HG21	1.93	0.51
1:CA:777:A:H2'	1:CA:778:G:C8	2.44	0.51
46:DN:18:ALA:HB1	46:DN:21:LYS:CG	2.40	0.51
1:AA:451:A:N6	1:AA:480:U:H2'	2.26	0.51
35:BA:623:G:H2'	35:BA:624:C:C6	2.45	0.51
15:CO:10:LYS:HE3	15:CO:14:GLU:OE2	2.10	0.51
1:AA:1129:C:H5''	1:AA:1139:G:O6	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AN:37:PHE:CD2	14:AN:37:PHE:N	2.78	0.51
8:CH:119:LEU:N	8:CH:119:LEU:HD23	2.25	0.51
1:CA:659:U:H2'	1:CA:660:G:H8	1.75	0.51
22:AV:16:U:H3	22:AV:59:U:H3	1.57	0.51
6:CF:22:GLU:HA	6:CF:22:GLU:OE2	2.10	0.51
45:BK:27:LEU:N	45:BK:27:LEU:HD23	2.25	0.51
1:AA:995:C:O2'	1:AA:996:A:H5'	2.10	0.51
35:DA:1586:A:H3'	35:DA:1587:A:O4'	2.09	0.51
33:B8:33:ASN:HD22	33:B8:34:TRP:H	1.48	0.51
31:D6:35:GLU:HB3	31:D6:51:GLU:HG3	1.91	0.51
40:BF:53:THR:N	40:BF:56:GLU:OE2	2.34	0.51
39:DE:132:HIS:CG	39:DE:135:HIS:HE2	2.26	0.51
48:DP:130:PHE:N	48:DP:130:PHE:HD2	2.09	0.51
18:CR:53:ARG:HH21	18:CR:60:ALA:N	2.09	0.51
57:BY:9:LYS:HG3	57:BY:10:GLY:H	1.74	0.51
25:D0:14:ARG:O	25:D0:15:ASP:HB2	2.10	0.51
24:AY:295:LEU:O	24:AY:298:LEU:HB2	2.10	0.51
51:BS:20:ARG:HG2	51:BS:20:ARG:HH11	1.75	0.51
45:BK:93:ARG:NH1	45:BK:94:GLU:HB2	2.26	0.51
10:AJ:6:ILE:CB	10:AJ:98:ILE:HG13	2.40	0.51
60:DI:7:GLU:CB	60:DI:8:PRO:HD2	2.32	0.51
1:CA:959:A:C2'	1:CA:960:U:H4'	2.41	0.51
32:B7:48:LYS:HZ2	35:BA:125:G:H21	1.58	0.51
26:D1:87:PRO:CG	26:D1:88:LYS:H	2.21	0.51
35:BA:2444:G:OP1	40:BF:67:GLN:NE2	2.43	0.51
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.64	0.51
33:B8:16:ILE:HD12	33:B8:57:ARG:HG2	1.93	0.51
35:BA:142(A):C:O2'	35:BA:143:G:H5'	2.11	0.51
38:BD:35:LYS:HG2	38:BD:104:TYR:CE1	2.46	0.51
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.34	0.51
11:AK:44:SER:O	11:AK:47:VAL:HB	2.11	0.51
1:AA:1329:A:H5''	13:AM:29:ARG:HD2	1.90	0.51
35:DA:1685:C:C2'	35:DA:1686:C:C5'	2.88	0.51
58:DZ:10:ARG:N	58:DZ:37:VAL:HA	2.25	0.51
1:AA:975:A:C4'	1:AA:976:G:H5''	2.35	0.51
8:CH:82:HIS:CD2	8:CH:138:TRP:NE1	2.79	0.51
35:DA:2439:A:P	35:DA:2439:A:H3'	2.50	0.51
24:CY:75:LEU:HD11	24:CY:84:ARG:HB2	1.92	0.51
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.75	0.51
35:BA:796:C:H2'	35:BA:797:C:H6	1.74	0.51
48:DP:65:ARG:N	48:DP:65:ARG:HD2	2.20	0.51
35:BA:2883:A:C5'	35:BA:2884:U:H5'	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:102:LEU:HB3	2:CB:180:LEU:CD1	2.39	0.51
35:BA:321:G:OP2	40:BF:136:THR:HG22	2.10	0.51
38:DD:270:ILE:C	38:DD:270:ILE:HD12	2.31	0.51
13:AM:22:ILE:HB	13:AM:25:ILE:HB	1.92	0.51
45:DK:15:GLY:HA2	45:DK:42:ASN:OD1	2.11	0.51
48:BP:17:LYS:HB3	48:BP:19:VAL:HG22	1.91	0.51
35:BA:991:C:H2'	35:BA:992:C:H6	1.74	0.51
6:AF:11:ASN:ND2	6:AF:86:ARG:NH2	2.59	0.51
35:BA:718:A:C2'	35:BA:719:C:H5'	2.40	0.51
54:DV:79:VAL:O	54:DV:80:GLN:HB2	2.11	0.51
1:CA:1408:A:H2'	1:CA:1409:C:H6	1.75	0.51
8:CH:25:ASP:HB3	8:CH:58:TYR:HB3	1.93	0.51
1:AA:745:C:O2'	1:AA:746:A:H5'	2.10	0.51
4:AD:79:PHE:CZ	4:AD:204:ILE:HD13	2.46	0.51
26:D1:44:PRO:O	26:D1:46:LEU:N	2.43	0.51
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.75	0.51
35:BA:1791:A:H3'	35:BA:1792:G:H8	1.76	0.51
35:DA:2192:G:H2'	35:DA:2193:G:H5''	1.91	0.51
1:CA:828:A:N3	2:CB:26:PRO:HG3	2.26	0.51
2:CB:140:HIS:HA	2:CB:143:GLU:CG	2.40	0.51
35:DA:2012:G:O3'	55:DW:96:ILE:HG13	2.10	0.51
35:BA:448:U:O4	35:BA:583:G:H1'	2.11	0.51
37:BC:47:LEU:HD23	37:BC:47:LEU:H	1.75	0.51
35:BA:1912:A:O2'	35:BA:1913:A:H5'	2.10	0.51
53:BU:17:ILE:O	53:BU:20:LEU:N	2.40	0.51
4:AD:191:ARG:C	4:AD:191:ARG:HD2	2.31	0.51
41:BG:148:MET:HG3	41:BG:148:MET:O	2.10	0.51
35:BA:207:A:H2'	35:BA:208:C:O4'	2.11	0.51
1:CA:1129:C:H5''	1:CA:1139:G:O6	2.10	0.51
1:CA:505:G:C6	1:CA:535:A:C2	2.98	0.51
57:BY:97:ARG:HG3	57:BY:97:ARG:HH11	1.76	0.51
58:BZ:72:ARG:CG	58:BZ:89:PHE:HB2	2.40	0.51
58:DZ:166:SER:CB	58:DZ:169:GLU:HB2	2.40	0.51
57:DY:47:LYS:CD	57:DY:47:LYS:N	2.68	0.51
30:B5:3:LYS:HE3	30:B5:3:LYS:CA	2.22	0.51
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.11	0.51
41:BG:75:LYS:O	41:BG:76:SER:HB3	2.11	0.51
52:DT:91:ARG:HA	52:DT:117:ASP:HB3	1.93	0.51
1:CA:509:A:H5'	4:CD:54:TYR:CD2	2.46	0.51
24:AY:31:ARG:O	24:AY:32:ARG:HB2	2.11	0.51
24:AY:32:ARG:NE	24:AY:32:ARG:N	2.58	0.51
24:AY:40:ASN:C	24:AY:42:PRO:HD2	2.31	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
60:DI:52:ARG:HB3	60:DI:56:LYS:NZ	2.26	0.51
60:DI:57:ARG:O	60:DI:61:ARG:HG3	2.10	0.51
42:BH:89:ILE:HG12	42:BH:129:THR:HA	1.93	0.51
41:DG:103:LEU:O	41:DG:107:LEU:CD2	2.58	0.51
41:DG:98:ARG:O	41:DG:101:ILE:CD1	2.58	0.51
46:DN:1:MET:HG2	54:DV:20:LEU:HD22	1.93	0.51
52:DT:62:THR:HA	52:DT:74:ARG:O	2.10	0.51
1:CA:1115:C:H2'	1:CA:1116:C:C6	2.46	0.51
51:BS:90:GLY:O	51:BS:92:TYR:CD1	2.63	0.51
32:D7:48:LYS:HZ2	35:DA:125:G:H21	1.59	0.51
36:DB:84:C:C2'	36:DB:85:G:H5''	2.31	0.51
19:AS:11:VAL:HG22	19:AS:16:LEU:HD11	1.92	0.51
20:CT:104:LEU:HD23	20:CT:105:SER:N	2.26	0.51
35:DA:2636:U:H4'	39:DE:80:GLU:OE2	2.10	0.51
35:DA:1686:C:H2'	35:DA:1687:G:O4'	2.10	0.51
11:CK:29:ILE:HD12	11:CK:29:ILE:C	2.31	0.51
1:CA:1452:C:H4'	1:CA:1456:G:C5	2.46	0.51
39:BE:7:VAL:CG2	39:BE:27:LEU:HB3	2.40	0.51
57:DY:17:SER:HB3	57:DY:71:LYS:HB3	1.91	0.51
57:BY:17:SER:HB3	57:BY:71:LYS:HB3	1.92	0.51
35:BA:1437:C:C6	35:BA:1437:C:H5'	2.45	0.51
33:D8:15:LYS:HB2	48:DP:65:ARG:NH2	2.26	0.51
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.26	0.51
45:DK:100:THR:HA	45:DK:139:VAL:HB	1.92	0.51
17:AQ:18:THR:HG23	17:AQ:69:LYS:HE3	1.93	0.51
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.30	0.51
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.58	0.51
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.31	0.51
1:CA:1060:C:O2'	1:CA:1061:G:H5'	2.11	0.51
35:DA:1396:U:C2'	35:DA:1396:U:O2	2.57	0.51
56:DX:47:PHE:HB3	56:DX:89:ILE:HD12	1.93	0.51
8:CH:29:SER:O	8:CH:32:LYS:HB2	2.11	0.51
42:DH:85:LYS:HE2	42:DH:145:ALA:HB2	1.92	0.51
1:AA:140:A:H2'	1:AA:141:A:H8	1.76	0.51
24:AY:267:SER:HB2	49:BQ:80:GLU:OE2	2.11	0.51
4:AD:2:GLY:O	4:AD:4:TYR:N	2.44	0.51
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.51	0.51
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.58	0.51
35:BA:1291:C:O2'	35:BA:1292:U:H5'	2.11	0.51
38:BD:48:ARG:HG3	38:BD:48:ARG:NH1	2.26	0.51
1:CA:294:U:H2'	1:CA:295:C:C6	2.46	0.51
35:BA:1973:G:H2'	35:BA:1974:C:H6	1.75	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:47:THR:HB	18:AR:49:LYS:HG2	1.92	0.51
1:AA:601:C:H2'	1:AA:602:A:H8	1.74	0.51
48:DP:13:ASN:HD22	48:DP:13:ASN:H	1.59	0.51
24:CY:79:LEU:CB	24:CY:80:PRO:HD3	2.40	0.51
3:CC:123:GLN:HA	3:CC:126:ARG:HD2	1.92	0.51
35:DA:740:U:H6	35:DA:740:U:H5'	1.75	0.51
35:DA:1163:G:O2'	35:DA:1164:G:H5'	2.11	0.51
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.75	0.51
1:AA:1240:U:OP2	7:AG:116:ALA:HB2	2.11	0.51
27:D2:57:ILE:O	27:D2:61:LEU:HD23	2.11	0.51
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.10	0.51
35:BA:2776:A:H3'	35:BA:2776:A:OP1	2.10	0.51
1:AA:764:C:H2'	1:AA:765:G:O4'	2.11	0.51
35:DA:272(J):C:H42	35:DA:363(A):A:N6	2.08	0.51
37:DC:169:GLY:O	37:DC:170:ALA:HB3	2.11	0.51
38:DD:165:ILE:HG22	38:DD:167:GLY:H	1.76	0.51
11:CK:114:VAL:HG13	11:CK:114:VAL:O	2.11	0.51
8:CH:102:ARG:N	8:CH:102:ARG:HE	2.08	0.51
35:BA:2822:G:H2'	35:BA:2823:A:H5''	1.93	0.51
48:DP:48:PRO:O	48:DP:49:ARG:C	2.49	0.51
31:D6:51:GLU:O	31:D6:52:VAL:HB	2.11	0.51
33:D8:32:LEU:N	33:D8:32:LEU:HD13	2.18	0.51
48:BP:23:PRO:HD2	48:BP:33:ARG:CZ	2.40	0.51
28:D3:4:LEU:HA	28:D3:57:GLU:O	2.10	0.51
41:BG:121:ASN:HB2	41:BG:131:TYR:HE1	1.75	0.51
22:CW:39:U:H2'	22:CW:40:C:C5'	2.36	0.51
4:CD:14:ARG:HG3	4:CD:15:GLU:N	2.24	0.51
54:DV:39:LEU:HA	54:DV:47:VAL:HG22	1.93	0.51
35:DA:1579:A:H5'	35:DA:1579:A:H8	1.75	0.51
25:D0:48:GLY:HA3	25:D0:80:HIS:HB3	1.92	0.51
35:BA:361:G:C3'	35:BA:362:U:H5''	2.40	0.51
35:DA:2092:U:O4'	35:DA:2092:U:O2	2.28	0.51
35:BA:1826:G:H2'	35:BA:1827:C:C6	2.46	0.51
35:BA:84:A:H5''	57:BY:9:LYS:HE3	1.92	0.51
9:CI:97:LYS:C	9:CI:99:LEU:N	2.64	0.51
31:D6:15:GLU:O	31:D6:15:GLU:HG2	2.10	0.51
31:D6:15:GLU:HG2	31:D6:18:ARG:HE	1.76	0.51
37:DC:94:VAL:HG23	37:DC:94:VAL:O	2.10	0.51
57:BY:7:VAL:CB	57:BY:8:LYS:NZ	2.74	0.51
51:DS:20:ARG:HH11	51:DS:20:ARG:HG2	1.76	0.51
35:DA:1505:C:H3'	35:DA:1506:C:C6	2.42	0.51
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.63	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1529:G:N3	35:BA:1529:G:H2'	2.26	0.51
58:DZ:131:ARG:HG2	58:DZ:131:ARG:HH11	1.75	0.51
9:AI:37:PHE:CE1	9:AI:74:ILE:HG12	2.46	0.51
46:BN:1:MET:HG2	54:BV:20:LEU:HD22	1.92	0.51
27:B2:6:VAL:HG12	27:B2:7:ARG:N	2.26	0.51
54:DV:99:ILE:O	54:DV:99:ILE:HG12	2.10	0.51
38:DD:27:THR:CG2	38:DD:83:GLU:HG2	2.40	0.51
38:DD:82:ILE:O	38:DD:82:ILE:HG23	2.11	0.51
22:CW:60:U:H2'	22:CW:61:C:C5	2.46	0.51
42:DH:60:ARG:O	42:DH:64:LEU:HG	2.11	0.51
35:DA:674:G:O2'	40:DF:74:ARG:HD3	2.10	0.51
3:CC:83:ARG:HA	3:CC:86:VAL:HG22	1.93	0.51
20:AT:93:GLU:O	20:AT:93:GLU:HG2	2.10	0.51
58:DZ:9:TYR:HE2	58:DZ:35:ARG:HH11	1.58	0.51
39:DE:93:VAL:HG21	39:DE:180:ASN:CA	2.37	0.51
33:D8:48:PHE:HZ	35:DA:650:C:C5'	2.23	0.51
48:BP:138:LEU:O	48:BP:140:ALA:N	2.44	0.51
35:BA:18:C:H4'	53:BU:23:GLY:O	2.11	0.51
8:AH:14:ARG:O	8:AH:18:ARG:HD3	2.11	0.51
14:AN:12:ARG:C	14:AN:14:PRO:CD	2.78	0.51
1:CA:1189:C:P	10:CJ:51:ARG:HH22	2.34	0.51
5:AE:150:ARG:HG3	5:AE:150:ARG:HH11	1.76	0.51
45:DK:12:LEU:O	45:DK:52:ILE:HD12	2.10	0.51
35:BA:795:C:H2'	35:BA:796:C:C6	2.46	0.51
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.76	0.51
11:CK:58:PRO:HD3	11:CK:89:ALA:HB1	1.92	0.51
11:CK:18:ARG:O	11:CK:32:ILE:HG22	2.11	0.51
1:CA:33:A:H2'	1:CA:34:C:H6	1.76	0.51
35:DA:1316:U:H2'	35:DA:1317:A:C8	2.45	0.51
56:DX:26:TYR:CE2	56:DX:89:ILE:HB	2.46	0.51
42:BH:85:LYS:HE2	42:BH:145:ALA:HB2	1.93	0.51
5:AE:26:PHE:O	5:AE:27:ARG:HB2	2.10	0.51
18:CR:86:VAL:HG12	18:CR:87:ARG:HD2	1.91	0.51
12:CL:81:SER:O	12:CL:106:ASP:HB2	2.11	0.51
52:DT:55:ASN:N	52:DT:59:THR:HB	2.26	0.51
35:DA:2195:C:O2'	35:DA:2196:C:H5'	2.10	0.51
35:BA:2887:U:O2'	35:BA:2888:C:H5'	2.11	0.51
35:BA:314:A:O2'	35:BA:315:G:H5'	2.11	0.51
48:BP:13:ASN:ND2	48:BP:13:ASN:H	2.09	0.51
1:CA:1142:G:H2'	1:CA:1143:G:H5'	1.92	0.51
3:AC:76:VAL:HG21	3:AC:103:VAL:CG1	2.41	0.51
35:DA:528:A:C2	35:DA:2042:A:H2'	2.46	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:44:GLY:H	41:BG:88:ILE:CG2	2.23	0.51
1:CA:143:A:H2	1:CA:220:G:H1	1.59	0.51
3:AC:123:GLN:HA	3:AC:126:ARG:HD2	1.92	0.51
1:CA:706:A:C5	1:CA:707:C:C5	2.98	0.51
29:B4:44:CYS:SG	29:B4:64:LYS:HB3	2.51	0.51
11:CK:120:ARG:NH2	11:CK:126:ARG:HE	2.09	0.51
49:BQ:116:GLU:O	49:BQ:120:ILE:HG12	2.11	0.51
1:AA:927:G:O2'	1:AA:928:G:H5'	2.11	0.51
1:CA:802:A:H2'	1:CA:803:G:O4'	2.11	0.51
1:AA:1239:A:H62	1:AA:1299:A:N6	2.09	0.51
53:DU:31:SER:C	53:DU:33:ARG:H	2.15	0.51
19:CS:33:THR:OG1	19:CS:34:TRP:N	2.44	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.11	0.51
42:DH:77:LYS:HA	42:DH:80:SER:HB2	1.92	0.51
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.93	0.51
1:AA:1221:G:O2'	1:AA:1222:G:H5'	2.10	0.51
1:AA:8:A:C6	4:AD:209:ARG:HA	2.46	0.51
35:DA:137:C:O2	35:DA:137:C:H2'	2.11	0.51
42:DH:86:GLU:HA	42:DH:132:ARG:HA	1.93	0.51
35:BA:1427:A:H4'	35:BA:1428:C:O5'	2.11	0.51
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.10	0.51
35:BA:347:A:H2'	35:BA:348:G:H8	1.75	0.51
22:AV:1:G:H2'	22:AV:2:C:H6	1.76	0.51
48:DP:14:LYS:O	48:DP:15:ARG:CG	2.59	0.51
13:AM:9:ILE:HG21	13:AM:11:ARG:NE	2.26	0.51
13:AM:23:TYR:HB3	13:AM:67:GLU:HA	1.93	0.51
33:D8:31:HIS:CG	33:D8:32:LEU:H	2.27	0.51
35:BA:587:C:C4	48:BP:33:ARG:HG2	2.46	0.51
1:AA:358:U:H5'	1:AA:358:U:H6	1.76	0.51
40:DF:9:ILE:HG12	40:DF:14:PRO:CA	2.41	0.51
33:D8:4:MET:HB2	33:D8:61:LEU:HD11	1.93	0.51
33:D8:4:MET:HE2	33:D8:61:LEU:HD13	1.91	0.51
1:AA:509:A:H5'	4:AD:54:TYR:HD2	1.76	0.51
4:AD:19:LEU:O	4:AD:26:CYS:SG	2.69	0.51
41:BG:110:ALA:HA	41:BG:140:ILE:CG2	2.41	0.51
53:DU:92:ARG:HB2	54:DV:11:GLN:CD	2.32	0.51
54:DV:39:LEU:HD12	54:DV:47:VAL:HG21	1.93	0.51
48:DP:130:PHE:N	48:DP:130:PHE:CD2	2.78	0.51
35:DA:361:G:C3'	35:DA:362:U:H5''	2.40	0.51
35:BA:807:U:OP2	48:BP:39:LYS:HG2	2.11	0.51
10:CJ:98:ILE:HD12	10:CJ:98:ILE:N	2.26	0.51
35:DA:1902:C:C1'	38:DD:244:ARG:HD3	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1841:U:O2'	38:DD:244:ARG:NH2	2.44	0.51
1:CA:980:C:H2'	1:CA:981:U:H5'	1.93	0.51
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.25	0.51
60:DI:8:PRO:O	60:DI:9:LEU:CB	2.58	0.51
40:BF:64:ILE:HG12	40:BF:65:TRP:NE1	2.26	0.51
27:B2:3:LEU:O	27:B2:6:VAL:HB	2.11	0.51
51:DS:85:VAL:O	51:DS:106:ARG:HA	2.11	0.51
35:DA:942:G:H5'	48:DP:35:HIS:HB2	1.93	0.51
3:CC:79:ARG:HG2	3:CC:82:GLU:OE1	2.11	0.51
27:D2:48:HIS:CD2	35:DA:96:G:H4'	2.46	0.51
39:DE:34:VAL:O	39:DE:35:GLN:CB	2.59	0.51
33:D8:23:VAL:HA	33:D8:47:LYS:O	2.11	0.51
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.39	0.51
35:DA:389:G:H22	48:DP:72:PRO:CG	2.24	0.51
53:BU:26:GLY:C	53:BU:28:ARG:N	2.63	0.51
11:AK:63:LEU:HD23	11:AK:63:LEU:O	2.11	0.51
42:DH:25:LYS:HA	42:DH:34:GLU:HA	1.93	0.51
39:BE:48:GLN:HE21	39:BE:78:LEU:HD12	1.73	0.51
42:DH:116:GLU:HG3	42:DH:117:PRO:HD2	1.92	0.51
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	1.92	0.51
47:BO:3:GLN:HG3	47:BO:4:PRO:CD	2.41	0.51
35:BA:646:A:H2'	35:BA:647:G:O4'	2.11	0.51
35:BA:1097:U:H2'	35:BA:1098:A:C5'	2.39	0.51
36:BB:91:C:O2'	36:BB:92:C:H5'	2.11	0.51
1:AA:1441:G:H4'	1:AA:1442:G:C4	2.45	0.51
1:CA:1352:C:H2'	1:CA:1353:G:H8	1.75	0.51
1:CA:1353:G:H1	1:CA:1369:C:H42	1.57	0.51
50:DR:96:ARG:HH22	50:DR:118:GLU:H	1.59	0.51
35:DA:2000:G:O2'	35:DA:2001:A:H5'	2.11	0.51
1:AA:909:A:H2'	1:AA:910:C:O4'	2.11	0.51
36:BB:17:C:C2'	36:BB:18:G:H5'	2.41	0.51
53:DU:9:VAL:O	53:DU:12:ARG:HB2	2.11	0.51
1:AA:828:A:N3	2:AB:26:PRO:HG3	2.25	0.51
35:DA:229:A:H3'	35:DA:230:U:C5'	2.41	0.51
35:DA:271(J):C:C3'	35:DA:271(K):U:H5''	2.41	0.51
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.46	0.51
48:DP:97:PRO:O	48:DP:101:VAL:HG12	2.11	0.51
35:BA:256:A:H2'	35:BA:257:A:C8	2.46	0.51
38:DD:55:GLY:O	38:DD:56:GLY:C	2.50	0.51
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.76	0.51
3:CC:186:PHE:HA	3:CC:198:VAL:O	2.11	0.51
15:CO:38:ARG:HG2	15:CO:38:ARG:HH11	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:84:LYS:HD2	37:DC:84:LYS:N	2.24	0.51
35:DA:2409:G:H2'	35:DA:2410:G:O4'	2.11	0.51
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.10	0.51
35:BA:13:A:H61	35:BA:525:U:H3'	1.76	0.51
51:DS:97:ARG:HH21	51:DS:98:VAL:CA	2.20	0.50
27:D2:69:ARG:NH2	35:DA:111:A:H5''	2.26	0.50
35:DA:925:C:C3'	35:DA:926:A:H5''	2.39	0.50
41:BG:137:GLU:HG2	41:BG:152:LEU:CD2	2.41	0.50
18:AR:21:LYS:NZ	18:AR:53:ARG:O	2.44	0.50
41:BG:117:PHE:CE1	41:BG:119:GLY:N	2.78	0.50
52:DT:82:LEU:C	52:DT:84:GLN:N	2.64	0.50
24:AY:34:GLU:O	24:AY:35:ASP:C	2.48	0.50
53:DU:92:ARG:CB	54:DV:11:GLN:NE2	2.74	0.50
35:BA:494:G:H21	55:BW:57:ASN:ND2	2.07	0.50
57:BY:8:LYS:HG2	57:BY:13:VAL:HG11	1.92	0.50
5:AE:76:ILE:HG23	5:AE:93:PRO:HB3	1.92	0.50
60:DI:66:GLU:HA	60:DI:69:LYS:HG3	1.93	0.50
24:CY:54:ARG:HA	24:CY:57:ARG:NE	2.26	0.50
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HD23	1.92	0.50
1:AA:267:C:OP2	17:AQ:67:LYS:HD2	2.11	0.50
35:BA:2793:G:H22	35:BA:2803:C:H1'	1.75	0.50
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.09	0.50
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.09	0.50
20:CT:53:LEU:O	20:CT:56:MET:N	2.45	0.50
38:BD:77:ALA:HB2	38:BD:97:TYR:HA	1.92	0.50
42:BH:31:GLY:H	42:BH:79:VAL:HG12	1.77	0.50
35:DA:941:A:O3'	48:DP:35:HIS:HB2	2.12	0.50
7:AG:20:ASP:O	7:AG:24:THR:HG23	2.11	0.50
54:BV:76:LYS:HB2	54:BV:81:TYR:HB3	1.92	0.50
4:CD:110:PHE:CE2	4:CD:148:VAL:HG23	2.46	0.50
33:B8:23:VAL:HA	33:B8:47:LYS:O	2.11	0.50
35:DA:1437:C:C6	35:DA:1437:C:H5'	2.45	0.50
25:D0:34:GLY:O	25:D0:35:ASN:C	2.49	0.50
8:CH:14:ARG:O	8:CH:18:ARG:HD3	2.11	0.50
45:BK:12:LEU:HD12	45:BK:55:VAL:HG11	1.93	0.50
50:DR:78:LYS:O	50:DR:82:GLU:HB3	2.11	0.50
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.46	0.50
35:DA:2729:G:H2'	35:DA:2730:C:C6	2.46	0.50
36:DB:71:C:C2	36:DB:72:G:C8	2.98	0.50
38:BD:8:PRO:HB3	38:BD:14:ARG:HB2	1.92	0.50
39:DE:151:TYR:HD2	39:DE:154:LYS:NZ	2.09	0.50
8:AH:112:LEU:HD13	8:AH:133:LEU:HA	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.76	0.50
24:AY:171:VAL:HG21	24:AY:180:LEU:HD12	1.92	0.50
1:CA:973:G:H1'	10:CJ:55:LYS:HE2	1.93	0.50
56:DX:88:LYS:CE	56:DX:93:GLU:HG3	2.41	0.50
8:AH:29:SER:O	8:AH:32:LYS:HB2	2.11	0.50
58:DZ:158:PRO:HG2	58:DZ:161:VAL:CG2	2.40	0.50
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.46	0.50
35:DA:55:G:H2'	35:DA:56:A:H8	1.76	0.50
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.11	0.50
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.50	0.50
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.26	0.50
35:BA:324:A:C2'	35:BA:325:G:H5'	2.40	0.50
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.26	0.50
16:CP:72:ARG:HH21	16:CP:73:LEU:HD21	1.76	0.50
12:CL:53:ARG:CB	12:CL:93:LEU:HD11	2.41	0.50
35:DA:1952:A:C2	47:DO:22:ILE:HG23	2.46	0.50
5:AE:47:LYS:HD2	5:AE:47:LYS:N	2.26	0.50
35:DA:1109:C:O2	35:DA:1109:C:H2'	2.08	0.50
20:AT:10:LEU:HD12	20:AT:11:SER:N	2.25	0.50
19:AS:58:VAL:HG21	19:AS:75:ALA:HB2	1.94	0.50
45:BK:27:LEU:H	45:BK:27:LEU:HD23	1.76	0.50
37:BC:95:GLY:HA3	37:BC:99:ILE:HD11	1.94	0.50
35:DA:1132:A:H2'	35:DA:1133:U:C6	2.46	0.50
35:BA:1360:A:H5'	35:BA:1361:G:OP2	2.11	0.50
3:CC:139:GLN:O	3:CC:143:GLU:HB2	2.10	0.50
35:DA:1329:U:H5''	35:DA:1330:C:H5	1.75	0.50
38:BD:67:PHE:CE1	38:BD:157:ARG:NH1	2.78	0.50
13:AM:5:ALA:O	13:AM:6:GLY:C	2.49	0.50
35:DA:373:U:H2'	35:DA:374:A:H8	1.76	0.50
58:BZ:11:GLU:H	58:BZ:11:GLU:CD	2.14	0.50
45:DK:53:VAL:HG23	45:DK:53:VAL:O	2.11	0.50
50:BR:107:ASP:C	50:BR:107:ASP:OD2	2.50	0.50
24:CY:263:GLN:O	24:CY:264:THR:O	2.29	0.50
51:DS:96:GLY:C	51:DS:98:VAL:H	2.13	0.50
36:BB:37:C:H2'	36:BB:38:C:H5'	1.93	0.50
33:B8:61:LEU:CD2	33:B8:61:LEU:H	2.16	0.50
31:B6:10:LEU:HD22	31:B6:10:LEU:N	2.26	0.50
24:AY:46:ARG:O	24:AY:49:SER:HB3	2.10	0.50
35:DA:2305:A:H2'	35:DA:2306:C:O4'	2.11	0.50
41:BG:139:LEU:C	41:BG:141:PHE:H	2.13	0.50
41:BG:127:GLY:N	41:BG:166:ASP:OD1	2.41	0.50
52:DT:89:VAL:HG21	52:DT:91:ARG:HH21	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:543:C:O2'	1:CA:544:G:H5'	2.11	0.50
9:CI:18:PHE:CD1	9:CI:62:TYR:HD2	2.29	0.50
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.31	0.50
9:CI:79:LEU:HD13	9:CI:79:LEU:O	2.11	0.50
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.44	0.50
48:BP:62:LEU:N	48:BP:62:LEU:HD22	2.27	0.50
1:AA:1145:C:H4'	1:AA:1146:A:H5'	1.92	0.50
9:AI:50:LEU:O	9:AI:53:VAL:HG22	2.12	0.50
6:AF:30:LEU:N	6:AF:30:LEU:HD23	2.26	0.50
37:BC:51:PRO:O	37:BC:52:ARG:HB2	2.11	0.50
38:DD:34:VAL:O	38:DD:35:LYS:CD	2.59	0.50
35:DA:1685:C:C2'	35:DA:1686:C:H5''	2.42	0.50
1:AA:392:G:H2'	1:AA:393:A:H8	1.76	0.50
51:BS:74:ALA:CB	51:BS:103:GLU:HG3	2.38	0.50
48:DP:88:LEU:CD1	48:DP:95:VAL:HG11	2.41	0.50
48:BP:89:ALA:O	48:BP:90:ARG:C	2.49	0.50
16:AP:51:VAL:CG1	16:AP:52:ASP:H	2.21	0.50
16:CP:51:VAL:CG1	16:CP:52:ASP:H	2.21	0.50
4:AD:122:ARG:HA	4:AD:134:ASP:HB2	1.94	0.50
50:DR:63:ARG:HA	50:DR:80:PHE:CE2	2.47	0.50
5:CE:150:ARG:HG3	5:CE:150:ARG:HH11	1.76	0.50
47:DO:3:GLN:HG3	47:DO:4:PRO:CD	2.41	0.50
24:AY:186:VAL:HB	24:AY:310:GLN:HA	1.93	0.50
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.21	0.50
38:BD:183:ARG:HB3	38:BD:270:ILE:HG22	1.93	0.50
42:BH:18:GLU:O	42:BH:24:VAL:HA	2.11	0.50
42:BH:25:LYS:HA	42:BH:33:LEU:O	2.10	0.50
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	1.92	0.50
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.12	0.50
24:AY:118:LEU:CG	24:AY:210:VAL:HG22	2.39	0.50
22:CW:71:G:O2'	22:CW:72:C:H5'	2.11	0.50
35:DA:1097:U:H2'	35:DA:1098:A:C5'	2.40	0.50
1:CA:1065:U:H5''	1:CA:1190:G:H21	1.75	0.50
50:BR:41:ALA:O	50:BR:43:GLU:N	2.44	0.50
5:CE:11:ILE:HD12	5:CE:31:LEU:HD12	1.93	0.50
35:DA:632:A:H2'	35:DA:633:A:C8	2.47	0.50
24:CY:330:ARG:HB3	24:CY:332:ASP:OD1	2.11	0.50
49:BQ:60:ARG:HH11	49:BQ:60:ARG:CB	2.24	0.50
1:AA:1019:C:H2'	1:AA:1020:U:H6	1.76	0.50
1:AA:779:C:O2'	1:AA:780:A:H5'	2.11	0.50
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.11	0.50
13:AM:65:LYS:NZ	13:AM:65:LYS:HB2	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:75:HIS:HA	12:AL:102:ARG:HH22	1.76	0.50
1:CA:663:A:H5''	18:CR:61:LYS:NZ	2.26	0.50
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.46	0.50
3:AC:139:GLN:O	3:AC:143:GLU:HB2	2.10	0.50
36:BB:87:G:N2	36:BB:89:G:H3'	2.25	0.50
57:DY:19:LYS:HB2	57:DY:19:LYS:NZ	2.26	0.50
45:DK:132:ARG:HH11	45:DK:132:ARG:HG3	1.76	0.50
38:BD:201:HIS:O	38:BD:203:ASN:N	2.44	0.50
35:DA:2605:U:H2'	35:DA:2606:C:C6	2.47	0.50
31:B6:30:THR:HG21	35:BA:2285:C:H5'	1.92	0.50
41:BG:82:LEU:HD22	41:BG:87:PRO:HG3	1.93	0.50
27:B2:46:GLN:OE1	27:B2:46:GLN:HA	2.11	0.50
1:CA:1145:C:H4'	1:CA:1146:A:H5'	1.93	0.50
9:CI:43:ALA:C	9:CI:45:ALA:N	2.64	0.50
9:CI:37:PHE:CE1	9:CI:74:ILE:HG12	2.47	0.50
35:DA:1826:G:C4'	38:DD:242:ARG:HE	2.20	0.50
54:DV:15:GLU:CB	54:DV:16:PRO:HD2	2.27	0.50
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.12	0.50
54:BV:21:ARG:O	54:BV:22:VAL:HG23	2.11	0.50
35:DA:78:A:H2'	35:DA:79:G:C8	2.46	0.50
22:AW:63:G:C5'	37:BC:52:ARG:HA	2.39	0.50
33:B8:10:ALA:HB2	33:B8:59:LYS:HZ2	1.75	0.50
38:DD:25:THR:O	38:DD:26:LYS:C	2.49	0.50
41:DG:124:SER:O	41:DG:131:TYR:CD1	2.64	0.50
52:BT:16:ARG:HG3	52:BT:16:ARG:NH1	2.26	0.50
52:BT:74:ARG:HB3	52:BT:76:PHE:CE1	2.47	0.50
35:DA:2630:G:H21	35:DA:2892:A:H1'	1.76	0.50
11:CK:44:SER:O	11:CK:47:VAL:HB	2.11	0.50
1:CA:1457:G:O2'	1:CA:1458:G:H5'	2.11	0.50
35:BA:389:G:H22	48:BP:72:PRO:CG	2.24	0.50
60:DI:94:ALA:HB1	60:DI:111:PRO:CB	2.34	0.50
35:DA:2144:U:HO2'	35:DA:2147:G:H1	1.56	0.50
16:CP:47:ASP:O	16:CP:49:LEU:N	2.44	0.50
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.11	0.50
25:D0:27:GLU:HB3	35:DA:856:C:C1'	2.40	0.50
35:BA:92:A:O2'	35:BA:93:G:H5'	2.11	0.50
1:AA:413:G:O6	4:AD:35:ARG:HD3	2.11	0.50
50:BR:4:LEU:O	50:BR:6:SER:N	2.44	0.50
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.93	0.50
17:CQ:61:GLU:HA	17:CQ:71:PHE:CE1	2.47	0.50
39:BE:11:MET:HB2	39:BE:23:VAL:O	2.10	0.50
19:CS:36:ARG:HH21	19:CS:72:GLY:CA	2.24	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:865:A:H2'	1:CA:866:C:H6	1.77	0.50
42:DH:137:ASP:HB3	42:DH:140:LYS:HB3	1.93	0.50
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.42	0.50
5:AE:15:ARG:HD2	5:AE:26:PHE:CD2	2.46	0.50
14:CN:3:ARG:HB3	14:CN:3:ARG:HH11	1.73	0.50
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.12	0.50
26:D1:19:GLN:CB	26:D1:35:THR:HG22	2.41	0.50
37:BC:67:GLY:HA2	37:BC:162:GLU:O	2.12	0.50
35:BA:1429:G:H2'	35:BA:1430:C:C6	2.47	0.50
25:B0:20:ARG:HH11	35:BA:2271:G:C5'	2.24	0.50
43:BI:31:LEU:HD22	43:BI:38:LEU:HD23	1.92	0.50
2:CB:144:ARG:HA	2:CB:147:LYS:HB3	1.92	0.50
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.50
35:DA:2554:U:H2'	35:DA:2555:U:C6	2.47	0.50
4:AD:104:VAL:C	4:AD:106:TYR:H	2.15	0.50
11:CK:120:ARG:HG3	11:CK:120:ARG:HH11	1.76	0.50
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.11	0.50
3:AC:81:GLY:O	3:AC:85:ARG:HB2	2.12	0.50
35:BA:445:C:O2'	35:BA:446:G:H5'	2.10	0.50
1:AA:118:U:O4	1:AA:288:A:H2'	2.10	0.50
35:BA:902:C:O2'	35:BA:903:C:H5'	2.11	0.50
39:BE:174:ASP:OD2	39:BE:175:VAL:N	2.44	0.50
39:BE:147:PRO:HB2	39:BE:149:ARG:HG2	1.92	0.50
38:BD:165:ILE:HG22	38:BD:167:GLY:H	1.77	0.50
35:BA:66:C:O2'	35:BA:67:U:H5'	2.12	0.50
35:DA:1142:U:O5'	35:DA:1142:U:H6	1.95	0.50
38:BD:254:THR:O	38:BD:254:THR:OG1	2.29	0.50
25:D0:54:GLY:O	25:D0:56:ASP:N	2.44	0.50
1:AA:439:A:H2'	1:AA:441:A:O4'	2.12	0.50
1:AA:1083:U:H5	1:AA:1084:G:C6	2.28	0.50
35:BA:152:G:H2'	35:BA:153:C:C6	2.47	0.50
35:BA:1885:A:H3'	35:BA:1886:C:H6	1.77	0.50
48:BP:33:ARG:O	48:BP:34:GLY:O	2.29	0.50
48:DP:23:PRO:C	48:DP:33:ARG:HD2	2.32	0.50
30:B5:48:GLU:C	30:B5:50:GLY:N	2.64	0.50
24:AY:52:ALA:C	24:AY:54:ARG:H	2.14	0.50
41:BG:11:TYR:O	41:BG:12:TYR:O	2.29	0.50
48:DP:131:SER:O	48:DP:134:ALA:N	2.45	0.50
37:BC:76:ALA:C	37:BC:78:ALA:H	2.14	0.50
24:CY:31:ARG:HD2	24:CY:31:ARG:N	2.22	0.50
22:AW:1:G:C6	22:AW:73:A:N1	2.79	0.50
22:CW:24:G:H2'	22:CW:25:C:O4'	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:18:LEU:HD13	54:DV:19:LYS:H	1.76	0.50
35:DA:1115:G:H2'	35:DA:1116:C:O4'	2.11	0.50
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.94	0.50
35:DA:2646:C:OP2	35:DA:2732:G:O2'	2.23	0.50
1:CA:358:U:H5'	1:CA:358:U:H6	1.76	0.50
24:CY:139:MET:HG3	24:CY:337:LEU:HA	1.94	0.50
24:CY:341:LEU:HA	24:CY:344:LEU:HD21	1.93	0.50
20:CT:89:ARG:NH2	20:CT:104:LEU:HD11	2.22	0.50
57:DY:86:ARG:HG2	57:DY:87:LYS:N	2.26	0.50
34:B9:14:CYS:HA	34:B9:26:ILE:O	2.12	0.50
8:CH:82:HIS:CD2	8:CH:138:TRP:HE1	2.29	0.50
1:CA:422:C:H4'	1:CA:423:G:C4	2.45	0.50
46:DN:47:ALA:HB2	46:DN:112:LEU:CD1	2.41	0.50
10:AJ:48:THR:HG22	10:AJ:49:VAL:H	1.76	0.50
35:DA:1640:C:H2'	35:DA:1641:A:O4'	2.11	0.50
28:D3:11:SER:HB3	35:DA:988:A:P	2.51	0.50
39:DE:78:LEU:CD2	39:DE:78:LEU:N	2.63	0.50
1:CA:674:G:N2	11:CK:116:HIS:HB2	2.26	0.50
39:DE:131:ALA:C	39:DE:133:LYS:N	2.62	0.50
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.12	0.50
10:CJ:75:ILE:CG1	10:CJ:76:ASN:H	2.20	0.50
20:CT:26:ASN:ND2	20:CT:27:LYS:N	2.57	0.50
8:CH:112:LEU:HD13	8:CH:133:LEU:HA	1.94	0.50
1:AA:1452:C:H4'	1:AA:1456:G:C5	2.47	0.50
36:BB:45:A:N3	36:BB:45:A:H2'	2.26	0.50
38:DD:125:ILE:O	38:DD:125:ILE:HG22	2.10	0.50
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.78	0.50
35:DA:2267:A:H5''	35:DA:2268:A:C5'	2.42	0.50
35:BA:1046:A:H2	44:BJ:8:UNK:CA	2.24	0.50
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.46	0.50
1:AA:1353:G:H1	1:AA:1369:C:H42	1.59	0.50
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.76	0.50
10:AJ:42:THR:HG23	10:AJ:67:THR:O	2.10	0.50
49:BQ:51:ARG:NH1	49:BQ:51:ARG:HG2	2.25	0.50
35:BA:229:A:H3'	35:BA:230:U:H5'	1.93	0.50
35:DA:1464:C:O2'	35:DA:1528:A:H8	1.94	0.50
18:AR:25:THR:O	18:AR:26:LEU:HD23	2.11	0.50
2:CB:139:LYS:O	2:CB:143:GLU:HG2	2.11	0.50
35:DA:1652:A:O2'	35:DA:1653:G:H5'	2.11	0.50
35:BA:2848:G:C8	52:BT:97:ALA:HB2	2.46	0.50
11:AK:120:ARG:CZ	11:AK:126:ARG:HE	2.24	0.50
52:DT:1:MET:HG3	52:DT:2:ASN:N	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:65:GLN:O	16:AP:65:GLN:HG2	2.12	0.50
1:AA:1292:U:H5'	9:AI:38:GLN:HE21	1.77	0.50
1:AA:1084:G:H5'	1:AA:1102:A:OP2	2.12	0.50
46:BN:70:LYS:HB3	46:BN:87:LEU:HB2	1.93	0.50
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.11	0.50
1:CA:889:A:H5'	1:CA:891:U:H1'	1.94	0.50
39:BE:128:SER:O	39:BE:129:HIS:HB2	2.10	0.50
35:BA:1368:G:O2'	35:BA:1369:G:H5'	2.12	0.50
35:DA:2822:G:H2'	35:DA:2823:A:H5''	1.94	0.50
5:CE:84:PHE:HB3	5:CE:134:ALA:HB2	1.94	0.50
35:DA:752:A:O2'	35:DA:753:C:OP2	2.26	0.50
1:AA:1495:U:OP1	24:AY:160:PRO:HG2	2.12	0.50
49:DQ:97:VAL:HG21	49:DQ:103:MET:HE3	1.93	0.50
55:BW:55:ALA:O	55:BW:58:ALA:HB3	2.11	0.50
1:CA:993:G:H22	1:CA:1046:A:H1'	1.75	0.50
41:DG:12:TYR:O	41:DG:16:ARG:HB2	2.12	0.50
58:DZ:152:ALA:HB1	58:DZ:167:PRO:CB	2.41	0.50
31:B6:26:ASN:ND2	31:B6:32:ASN:OD1	2.45	0.50
52:BT:32:TYR:HD2	52:BT:81:PRO:O	1.94	0.50
42:BH:19:VAL:HG21	42:BH:44:VAL:CG1	2.41	0.50
40:DF:3:GLU:O	40:DF:19:GLU:CB	2.59	0.50
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.94	0.50
4:AD:14:ARG:HG3	4:AD:15:GLU:N	2.26	0.50
4:AD:8:VAL:O	4:AD:10:ARG:N	2.44	0.50
41:BG:169:ALA:O	41:BG:173:LEU:HG	2.11	0.50
40:BF:53:THR:HG22	40:BF:56:GLU:CD	2.31	0.50
4:CD:33:MET:CE	4:CD:37:PRO:HA	2.41	0.50
50:DR:9:LYS:O	50:DR:10:LEU:CG	2.60	0.50
48:BP:114:ILE:O	48:BP:115:LEU:HB3	2.10	0.50
25:D0:80:HIS:N	25:D0:80:HIS:CD2	2.78	0.50
37:BC:74:VAL:HG22	37:BC:119:VAL:CB	2.41	0.50
5:AE:75:THR:HA	5:AE:115:VAL:HG13	1.94	0.50
52:DT:38:ASN:HD21	52:DT:41:ARG:HG2	1.76	0.50
51:DS:89:ARG:O	51:DS:90:GLY:O	2.29	0.50
24:CY:61:THR:O	24:CY:65:LEU:HG	2.11	0.50
54:BV:23:GLU:O	54:BV:24:LYS:C	2.49	0.50
32:B7:9:ARG:HH12	35:BA:1309:G:H3'	1.76	0.50
22:AW:52:G:H1'	22:AW:63:G:N2	2.27	0.50
2:AB:214:ILE:O	2:AB:218:ALA:HB2	2.12	0.50
35:DA:2444:G:OP1	40:DF:67:GLN:NE2	2.43	0.50
39:BE:81:ILE:O	39:BE:81:ILE:HG22	2.10	0.50
57:DY:56:PRO:O	57:DY:57:GLN:CG	2.55	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.93	0.50
38:BD:142:VAL:HG23	38:BD:192:THR:O	2.12	0.50
41:DG:115:ARG:NH1	41:DG:136:ARG:HG3	2.23	0.50
43:BI:4:ILE:O	43:BI:5:LEU:CB	2.60	0.50
48:DP:89:ALA:O	48:DP:90:ARG:C	2.50	0.50
60:DI:72:LEU:CD2	60:DI:107:ILE:HG21	2.41	0.50
22:AV:37:A:C2	23:AX:19:U:C4	2.99	0.50
1:CA:892:A:H2'	1:CA:893:C:C6	2.46	0.50
22:AW:37:A:H2'	22:AW:38:A:C8	2.47	0.50
50:BR:34:ILE:HG22	50:BR:35:THR:N	2.27	0.50
35:BA:1357:U:H2'	35:BA:1358:G:O4'	2.12	0.50
48:BP:17:LYS:C	48:BP:19:VAL:N	2.65	0.50
43:BI:78:THR:HG22	43:BI:143:SER:HB3	1.93	0.50
2:AB:8:LYS:HA	2:AB:217:ARG:HH22	1.76	0.50
24:CY:181:SER:N	24:CY:182:PRO:HD2	2.26	0.50
35:DA:1300:U:O2'	35:DA:1301:A:OP2	2.27	0.50
1:AA:1510:U:H1'	1:AA:1526:G:N2	2.26	0.50
52:BT:55:ASN:N	52:BT:59:THR:HB	2.26	0.50
1:AA:165:C:O2'	1:AA:166:G:H5'	2.12	0.50
4:CD:162:LEU:HD12	4:CD:181:MET:HE2	1.94	0.50
1:CA:1258:G:H2'	1:CA:1259:C:H6	1.76	0.50
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.42	0.50
26:D1:46:LEU:HD12	26:D1:61:ARG:HD3	1.93	0.50
35:DA:290:G:O2'	35:DA:291:C:H5'	2.11	0.50
1:AA:143:A:H2	1:AA:220:G:H1	1.60	0.50
35:BA:1329:U:H5''	35:BA:1330:C:C5	2.46	0.50
59:D4:44:CYS:SG	59:D4:64:LYS:HB3	2.52	0.50
2:AB:231:GLU:HB2	2:AB:232:PRO:HD2	1.94	0.50
38:BD:164:GLN:HG2	38:BD:165:ILE:H	1.77	0.50
35:BA:1027:A:C2	35:BA:2488:A:H5'	2.46	0.50
37:BC:169:GLY:O	37:BC:170:ALA:HB3	2.11	0.50
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.12	0.50
1:AA:1030(C):G:O2'	1:AA:1030(D):A:H5'	2.11	0.50
1:CA:1030(C):G:O2'	1:CA:1030(D):A:H5'	2.11	0.50
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.47	0.50
14:CN:37:PHE:N	14:CN:37:PHE:CD2	2.78	0.50
49:DQ:137:TYR:HD1	49:DQ:138:ASP:N	2.09	0.50
35:BA:1339:G:N2	35:BA:1603:A:H1'	2.26	0.50
25:D0:46:LYS:HD2	25:D0:78:TYR:CZ	2.46	0.50
52:BT:24:PRO:HA	52:BT:49:VAL:HG13	1.93	0.50
35:BA:926:A:H5'	35:BA:926:A:H8	1.76	0.50
30:D5:48:GLU:C	30:D5:50:GLY:N	2.64	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:24:LEU:CB	40:BF:25:PRO:CD	2.90	0.50
28:D3:6:VAL:HG12	28:D3:28:LEU:HD11	1.93	0.50
24:CY:15:GLY:O	24:CY:17:LEU:N	2.45	0.50
41:BG:114:ILE:CG2	41:BG:116:ASP:H	2.12	0.50
41:BG:128:ARG:C	41:BG:130:ASN:N	2.64	0.50
48:BP:134:ALA:C	48:BP:136:GLU:N	2.65	0.50
18:CR:60:ALA:O	18:CR:64:ARG:HG3	2.12	0.50
24:CY:33:LEU:C	24:CY:35:ASP:H	2.15	0.50
22:AW:69:G:H2'	22:AW:70:G:C8	2.46	0.50
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.41	0.50
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	2.11	0.50
35:BA:2123:G:H4'	37:BC:166:ASP:CB	2.42	0.50
51:BS:16:ASN:C	51:BS:17:ARG:O	2.49	0.50
35:BA:2036:C:C5'	35:BA:2036:C:H6	2.13	0.50
35:BA:686:G:H21	35:BA:788:A:H61	1.60	0.50
35:BA:99:U:C6	35:BA:102:G:N2	2.80	0.50
35:DA:914:C:H6	35:DA:914:C:H5'	1.77	0.50
20:AT:51:GLU:HA	20:AT:54:LYS:HB3	1.93	0.50
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.35	0.50
38:DD:82:ILE:C	38:DD:82:ILE:HD13	2.32	0.50
27:D2:46:GLN:O	27:D2:47:ASN:O	2.30	0.50
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.60	0.50
60:DI:47:LEU:C	60:DI:49:ALA:N	2.65	0.50
57:DY:49:VAL:CG1	57:DY:53:PRO:HG3	2.39	0.50
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.11	0.50
24:AY:79:LEU:CB	24:AY:80:PRO:HD3	2.39	0.50
9:AI:114:TYR:CE1	10:AJ:60:ARG:N	2.70	0.50
35:DA:871:U:H4'	49:DQ:69:PHE:CD2	2.46	0.50
42:DH:33:LEU:HD11	42:DH:136:ILE:O	2.11	0.50
19:AS:36:ARG:HH21	19:AS:72:GLY:CA	2.24	0.50
13:CM:91:ARG:HB2	13:CM:98:VAL:HG22	1.92	0.50
42:DH:54:ARG:HD3	42:DH:65:HIS:CD2	2.47	0.50
12:CL:104:VAL:HG12	12:CL:105:TYR:CD1	2.47	0.50
11:CK:21:ILE:HD13	11:CK:84:VAL:HG12	1.93	0.50
30:B5:20:ARG:HA	30:B5:23:HIS:CD2	2.47	0.50
38:BD:270:ILE:C	38:BD:270:ILE:HD12	2.32	0.50
35:BA:601:C:C5'	40:BF:108:LYS:NZ	2.74	0.50
39:BE:130:GLY:O	39:BE:131:ALA:C	2.50	0.50
3:CC:134:ILE:CG2	3:CC:168:ALA:HB3	2.41	0.50
1:CA:1237:C:H4'	1:CA:1334:G:H21	1.73	0.50
1:CA:966:G:HO2'	1:CA:967:C:H6	1.41	0.50
15:CO:43:LEU:C	15:CO:45:VAL:H	2.15	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:72:U:O2'	35:DA:73:A:H5'	2.11	0.50
56:BX:47:PHE:HB3	56:BX:89:ILE:HD12	1.94	0.50
35:BA:2827:C:H5'	35:BA:2828:C:OP2	2.12	0.50
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.24	0.50
28:B3:6:VAL:HG12	28:B3:28:LEU:HD11	1.93	0.50
15:AO:37:ASN:HD22	15:AO:37:ASN:N	2.09	0.50
50:BR:8:ARG:CA	50:BR:8:ARG:NE	2.74	0.50
50:DR:8:ARG:CA	50:DR:8:ARG:NE	2.75	0.50
1:CA:166:G:H2'	1:CA:167:G:H8	1.77	0.50
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.26	0.50
56:DX:57:LEU:HD21	56:DX:78:LYS:HD2	1.93	0.50
36:DB:40:U:O2'	36:DB:45:A:N6	2.44	0.50
35:BA:271(J):C:C3'	35:BA:271(K):U:H5''	2.42	0.50
9:AI:18:PHE:CD1	9:AI:62:TYR:HD2	2.28	0.50
1:CA:707:C:O2'	1:CA:708:C:H5'	2.11	0.50
22:CV:24:G:O2'	35:DA:1923:U:H5''	2.12	0.50
49:BQ:39:PRO:O	49:BQ:40:ALA:HB2	2.11	0.50
1:AA:477:A:H2'	1:AA:479:C:C6	2.47	0.50
49:BQ:77:LYS:HZ1	49:BQ:84:GLY:N	2.09	0.50
1:CA:304:U:H2'	1:CA:305:G:C8	2.47	0.50
42:BH:143:GLN:HE21	42:BH:147:ASN:HD21	1.59	0.50
43:BI:88:ILE:O	43:BI:90:GLY:N	2.45	0.50
49:DQ:77:LYS:HZ1	49:DQ:84:GLY:N	2.10	0.50
58:BZ:155:LEU:N	58:BZ:155:LEU:HD12	2.26	0.50
53:BU:60:LEU:C	53:BU:60:LEU:HD13	2.32	0.50
17:CQ:11:VAL:O	17:CQ:12:SER:HB2	2.11	0.50
19:AS:27:GLU:O	19:AS:28:LYS:O	2.29	0.50
57:DY:97:ARG:HA	57:DY:97:ARG:NE	2.26	0.50
41:DG:16:ARG:HD2	41:DG:31:VAL:HG21	1.94	0.50
58:DZ:166:SER:CB	58:DZ:167:PRO:CA	2.89	0.50
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.75	0.50
52:BT:27:THR:HG23	52:BT:28:VAL:N	2.27	0.50
52:BT:81:PRO:O	52:BT:82:LEU:HG	2.12	0.50
35:BA:809:G:O2'	35:BA:810:U:H5'	2.12	0.50
40:BF:10:PRO:CG	40:BF:13:SER:HB2	2.36	0.50
35:DA:2015:A:H5'	55:DW:92:ARG:HH21	1.77	0.50
35:BA:1067:A:H2'	35:BA:1068:G:O4'	2.11	0.50
24:CY:22:LYS:HD2	24:CY:25:ARG:HD2	1.93	0.50
29:B4:50:THR:CG2	29:B4:51:TYR:H	2.16	0.50
41:BG:66:GLN:HE21	41:BG:98:ARG:HB2	1.77	0.50
54:DV:21:ARG:O	54:DV:22:VAL:HG23	2.11	0.50
46:BN:14:VAL:HG12	46:BN:15:LEU:N	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
60:DI:66:GLU:HA	60:DI:69:LYS:HZ2	1.77	0.50
36:DB:85:G:O2'	36:DB:86:G:H5'	2.12	0.50
4:CD:96:LEU:N	4:CD:96:LEU:CD1	2.75	0.50
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	2.10	0.50
58:DZ:9:TYR:CD2	58:DZ:35:ARG:HD2	2.47	0.50
35:BA:2788:C:O2'	35:BA:2809:A:N3	2.44	0.50
24:CY:40:ASN:O	24:CY:43:GLU:HG2	2.11	0.50
54:BV:28:GLU:HB3	54:BV:29:PRO:CD	2.39	0.50
33:B8:46:ARG:NH1	33:B8:46:ARG:HG2	2.27	0.50
48:DP:85:LEU:HD23	48:DP:88:LEU:HD23	1.93	0.50
1:AA:874:G:O2'	1:AA:875:C:H5'	2.12	0.50
27:B2:50:ILE:C	27:B2:52:ASP:H	2.15	0.50
55:BW:33:ARG:O	55:BW:37:ARG:HB2	2.12	0.50
46:DN:43:THR:O	46:DN:46:VAL:HG12	2.12	0.50
22:AW:38:A:H3'	22:AW:39:U:C5'	2.37	0.50
35:BA:1278:A:H5''	50:BR:36:THR:HG22	1.94	0.50
3:AC:149:ALA:O	3:AC:150:LYS:HB2	2.12	0.50
1:AA:918:A:O2'	1:AA:919:A:H5'	2.12	0.50
24:AY:140:TYR:OH	24:AY:187:HIS:CE1	2.64	0.50
1:CA:1014:A:H2	1:CA:1219:U:O2	1.94	0.50
22:AV:20:U:H3'	22:AV:21:A:C5'	2.42	0.50
39:DE:117:MET:HG2	39:DE:117:MET:O	2.11	0.50
38:BD:155:LEU:N	38:BD:155:LEU:HD12	2.27	0.50
22:CV:41:C:C3'	22:CV:42:C:H5'	2.41	0.50
1:AA:741:G:H5'	15:AO:39:LEU:CD2	2.41	0.50
50:BR:63:ARG:HA	50:BR:80:PHE:CE2	2.46	0.50
26:D1:30:VAL:HA	35:DA:2395:C:O2'	2.12	0.50
36:BB:40:U:H1'	36:BB:45:A:H62	1.76	0.50
35:DA:719:C:O2'	35:DA:720:C:H5'	2.12	0.50
3:CC:141:VAL:HG11	3:CC:202:ILE:CD1	2.39	0.50
24:AY:267:SER:HG	24:AY:270:LYS:HB2	1.77	0.50
21:AU:22:ARG:N	21:AU:23:PRO:HD3	2.26	0.50
1:AA:225:C:H2'	1:AA:226:G:H8	1.77	0.50
58:BZ:29:TYR:HA	58:BZ:33:LEU:O	2.11	0.50
35:DA:1557:C:H2'	35:DA:1558:A:C2	2.46	0.50
35:DA:230:U:O2'	35:DA:231:C:H5'	2.12	0.50
44:DJ:96:UNK:C	44:DJ:132:UNK:CB	2.90	0.50
47:BO:40:VAL:HG12	47:BO:41:ALA:N	2.26	0.50
55:BW:9:TYR:N	55:BW:9:TYR:HD2	2.10	0.50
6:AF:42:GLU:O	6:AF:44:GLY:N	2.45	0.50
43:BI:82:ARG:HG3	43:BI:82:ARG:NH1	2.27	0.50
1:AA:516:U:O2'	1:AA:517:G:H5'	2.10	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2590:A:O2'	35:BA:2591:C:H5'	2.10	0.50
35:DA:519:U:H2'	35:DA:520:G:C8	2.45	0.50
1:CA:506:G:H2'	1:CA:507:C:C6	2.47	0.50
35:BA:2870:C:H2'	35:BA:2871:C:O4'	2.12	0.50
40:DF:157:VAL:HB	40:DF:194:MET:HB3	1.93	0.50
35:BA:271(P):C:O2'	35:BA:271(Q):G:H5'	2.11	0.50
35:DA:1339:G:N2	35:DA:1603:A:H1'	2.27	0.50
59:D4:53:THR:C	59:D4:54:LYS:HD2	2.32	0.50
4:CD:91:SER:HA	4:CD:94:LEU:HD12	1.93	0.50
1:AA:659:U:H2'	1:AA:660:G:H8	1.75	0.50
2:AB:235:SER:O	2:AB:239:VAL:HG23	2.11	0.50
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.41	0.50
3:CC:25:GLY:C	3:CC:27:LYS:H	2.15	0.50
52:BT:1:MET:HG3	52:BT:2:ASN:H	1.76	0.50
1:CA:477:A:H2'	1:CA:479:C:C6	2.46	0.50
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.11	0.50
10:AJ:82:ILE:O	10:AJ:82:ILE:HG22	2.12	0.50
35:DA:2061:G:H5''	35:DA:2503:A:C2	2.47	0.50
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.94	0.50
58:DZ:125:LEU:O	58:DZ:126:VAL:HG13	2.12	0.50
31:D6:25:LYS:HE2	31:D6:27:LYS:NZ	2.26	0.50
24:AY:54:ARG:HB3	24:AY:54:ARG:CZ	2.42	0.50
18:AR:53:ARG:HH21	18:AR:60:ALA:N	2.10	0.50
41:BG:86:MET:O	41:BG:87:PRO:O	2.29	0.50
52:DT:28:VAL:HG11	52:DT:46:GLU:CG	2.34	0.50
26:D1:4:VAL:HA	26:D1:10:LYS:O	2.11	0.50
48:DP:134:ALA:C	48:DP:136:GLU:N	2.65	0.50
48:DP:146:VAL:HG22	48:DP:147:LEU:N	2.27	0.50
54:DV:22:VAL:O	54:DV:23:GLU:CB	2.60	0.50
24:CY:61:THR:CA	24:CY:64:SER:HB3	2.39	0.50
24:CY:64:SER:O	24:CY:68:ASP:HB2	2.12	0.50
50:BR:33:ARG:CG	50:BR:115:GLU:HG3	2.33	0.50
32:D7:8:ASN:ND2	32:D7:10:ARG:N	2.59	0.50
32:D7:9:ARG:HH12	35:DA:1309:G:H3'	1.77	0.50
1:CA:60:A:H2	1:CA:107:G:N3	2.09	0.50
1:CA:878:G:C1'	8:CH:3:THR:HG21	2.42	0.50
19:AS:19:VAL:O	19:AS:19:VAL:HG12	2.12	0.50
48:BP:46:LYS:HG2	48:BP:52:GLU:OE2	2.12	0.50
20:AT:48:LYS:O	20:AT:49:ALA:HB2	2.11	0.50
57:BY:56:PRO:O	57:BY:57:GLN:CG	2.55	0.50
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.52	0.50
35:DA:92:A:O2'	35:DA:93:G:H5'	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:47:ASN:ND2	35:DA:94(A):G:N3	2.60	0.50
7:AG:44:TYR:HA	7:AG:47:CYS:SG	2.52	0.50
8:CH:84:ARG:O	8:CH:135:CYS:HB2	2.11	0.50
35:DA:286:C:C2'	35:DA:287:C:H5''	2.38	0.50
48:BP:138:LEU:C	48:BP:140:ALA:N	2.65	0.50
10:CJ:48:THR:HG22	10:CJ:49:VAL:H	1.77	0.50
4:AD:28:SER:O	4:AD:30:LYS:HG2	2.12	0.50
26:B1:20:ARG:HG2	26:B1:20:ARG:NH1	2.26	0.50
3:CC:119:ARG:HE	3:CC:140:ARG:NH2	2.10	0.50
3:CC:175:LEU:HD12	3:CC:175:LEU:N	2.26	0.50
1:AA:629:G:H2'	1:AA:630:G:C8	2.47	0.50
33:B8:15:LYS:HB2	48:BP:65:ARG:NH2	2.27	0.50
3:CC:6:HIS:HB2	14:CN:49:HIS:HD2	1.77	0.50
40:BF:133:ASN:HA	40:BF:162:LEU:HD23	1.94	0.50
36:DB:6:C:O2'	51:DS:29:PHE:HE1	1.95	0.50
15:CO:82:ILE:HG23	15:CO:83:GLU:H	1.74	0.50
1:AA:741:G:H2'	1:AA:742:G:O4'	2.12	0.50
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.42	0.50
2:CB:167:PRO:HG2	2:CB:192:SER:CB	2.41	0.50
35:DA:2121:G:C2'	35:DA:2122:U:H5'	2.41	0.50
46:BN:9:VAL:CG1	46:BN:10:GLU:N	2.75	0.50
38:DD:8:PRO:HB3	38:DD:14:ARG:CB	2.41	0.50
54:DV:78:LYS:C	54:DV:79:VAL:HG23	2.32	0.50
35:DA:1067:A:H2'	35:DA:1068:G:O4'	2.11	0.50
52:DT:118:ARG:O	52:DT:119:LYS:C	2.50	0.50
24:CY:181:SER:O	24:CY:352:LYS:NZ	2.45	0.50
21:CU:22:ARG:N	21:CU:23:PRO:HD3	2.26	0.50
35:DA:1485:G:O2'	35:DA:1486:A:H5'	2.11	0.50
35:BA:911:A:H2'	49:BQ:9:TYR:CZ	2.47	0.50
16:CP:29:ASP:N	16:CP:29:ASP:OD2	2.42	0.50
35:DA:626:U:C2	48:DP:105:LEU:HB3	2.46	0.50
47:DO:71:ARG:HH21	47:DO:77:ILE:HG21	1.76	0.50
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.74	0.50
4:AD:68:TYR:N	4:AD:68:TYR:CD1	2.79	0.50
55:BW:1:MET:CE	55:BW:2:GLU:H	2.24	0.50
18:CR:25:THR:O	18:CR:26:LEU:HD23	2.11	0.50
42:DH:103:LEU:CG	42:DH:104:GLU:N	2.74	0.50
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.77	0.50
35:DA:654(R):C:H2'	35:DA:654(S):G:H8	1.76	0.50
35:DA:297:C:H2'	35:DA:298:G:O4'	2.12	0.50
47:DO:26:LYS:HE3	47:DO:37:ASP:OD1	2.12	0.50
17:AQ:9:VAL:HG12	17:AQ:10:VAL:N	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1509(A):A:O2'	35:DA:1509(B):A:H5'	2.12	0.50
4:AD:165:MET:C	4:AD:167:GLY:H	2.15	0.50
35:DA:2540:C:H2'	35:DA:2541:A:O4'	2.11	0.50
26:D1:93:GLU:C	26:D1:95:LEU:H	2.14	0.50
21:AU:7:ARG:O	21:AU:8:THR:HG23	2.11	0.50
4:CD:105:VAL:O	4:CD:105:VAL:HG12	2.11	0.50
37:BC:128:GLY:O	37:BC:130:ILE:N	2.44	0.50
47:BO:14:THR:O	47:BO:51:ALA:HB3	2.12	0.50
13:CM:68:GLY:O	13:CM:72:ALA:N	2.45	0.50
28:D3:2:PRO:HB2	28:D3:59:VAL:H	1.76	0.50
35:DA:548:A:H2'	35:DA:549:G:O4'	2.11	0.50
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.31	0.50
36:BB:27:C:H5'	36:BB:28:C:OP2	2.12	0.50
41:BG:45:GLU:O	41:BG:47:LYS:HG2	2.12	0.50
2:AB:178:ARG:HD2	8:AH:71:GLY:HA2	1.94	0.50
48:BP:131:SER:O	48:BP:134:ALA:N	2.45	0.50
54:BV:39:LEU:O	54:BV:40:LEU:HG	2.11	0.50
9:CI:100:GLY:C	9:CI:102:LEU:N	2.66	0.50
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.12	0.50
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.42	0.50
54:BV:6:LYS:HE2	54:BV:37:VAL:CG1	2.42	0.50
9:AI:103:THR:CG2	9:AI:104:ARG:N	2.75	0.50
35:BA:2533:A:H2'	35:BA:2534:A:C5'	2.32	0.50
24:CY:65:LEU:HD11	24:CY:94:ALA:O	2.12	0.50
9:AI:78:LYS:HG2	9:AI:78:LYS:O	2.11	0.50
19:CS:11:VAL:HG22	19:CS:16:LEU:CD1	2.41	0.50
47:BO:43:VAL:HG23	47:BO:56:ASP:O	2.11	0.50
9:AI:4:TYR:HB2	9:AI:19:LEU:CB	2.34	0.50
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.19	0.50
39:BE:2:LYS:HA	39:BE:84:PHE:CE2	2.47	0.50
20:AT:50:GLU:O	20:AT:53:LEU:N	2.45	0.50
11:AK:29:ILE:C	11:AK:29:ILE:HD12	2.32	0.50
38:DD:101:GLU:HG3	38:DD:102:LYS:N	2.26	0.50
38:DD:24:ILE:HD12	38:DD:84:TYR:HB2	1.94	0.50
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.26	0.50
39:DE:7:VAL:CG2	39:DE:27:LEU:HB3	2.42	0.50
7:CG:76:ARG:HD3	7:CG:89:MET:CE	2.42	0.50
60:DI:77:LEU:HD11	60:DI:142:VAL:HG22	1.93	0.50
10:AJ:88:LEU:HG	10:AJ:90:LEU:HD11	1.94	0.50
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.11	0.50
1:AA:723:U:C2'	1:AA:723:U:O2	2.59	0.50
45:DK:12:LEU:HD12	45:DK:55:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:149:ALA:O	3:CC:150:LYS:HB2	2.12	0.50
35:BA:2511:U:H2'	35:BA:2512:C:H6	1.77	0.50
27:B2:38:GLN:HB2	27:B2:44:LEU:CD1	2.42	0.50
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.42	0.50
47:BO:87:ILE:HG21	47:BO:91:LEU:HA	1.94	0.50
47:BO:87:ILE:HG23	47:BO:91:LEU:HA	1.93	0.50
2:CB:104:ASN:ND2	2:CB:107:THR:HB	2.27	0.50
1:CA:716:A:N3	11:CK:117:ASN:O	2.45	0.50
42:DH:114:VAL:HG23	42:DH:115:VAL:N	2.27	0.50
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.93	0.50
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	2.12	0.50
3:AC:167:TRP:O	3:AC:168:ALA:HB2	2.12	0.50
20:CT:26:ASN:HA	20:CT:29:LYS:HG2	1.93	0.50
38:DD:155:LEU:N	38:DD:155:LEU:HD12	2.26	0.50
35:BA:1316:U:H2'	35:BA:1317:A:C8	2.47	0.50
3:AC:84:ILE:HD11	3:AC:88:ARG:NH2	2.26	0.50
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.27	0.50
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.47	0.50
35:BA:2267:A:H5''	35:BA:2268:A:C5'	2.39	0.50
35:DA:2131:G:H5''	35:DA:2132:U:C5'	2.42	0.50
39:DE:172:VAL:HG13	39:DE:182:LEU:HD11	1.93	0.50
1:AA:1287:A:H2	1:AA:1353:G:N3	2.10	0.50
35:DA:2222:G:H5'	38:DD:149:PRO:HG3	1.94	0.50
18:AR:44:LEU:HD21	18:AR:50:ILE:HD13	1.94	0.50
35:BA:626:U:H3	48:BP:105:LEU:HB3	1.74	0.50
4:CD:68:TYR:N	4:CD:68:TYR:CD1	2.79	0.50
35:BA:225:A:C2'	35:BA:226:G:H5'	2.42	0.50
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.63	0.50
2:CB:143:GLU:O	2:CB:147:LYS:HB2	2.11	0.50
35:BA:654(R):C:H2'	35:BA:654(S):G:H8	1.77	0.50
35:BA:1652:A:O2'	35:BA:1653:G:H5'	2.12	0.50
36:DB:105:A:H2'	36:DB:106:G:O4'	2.11	0.50
46:BN:26:LEU:O	46:BN:30:ILE:HG13	2.12	0.50
9:CI:10:ARG:HD3	9:CI:75:ASP:CB	2.41	0.50
35:BA:2317:C:O2'	35:BA:2318:G:H5'	2.12	0.50
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.46	0.50
1:CA:1270:C:O2'	1:CA:1271:G:H5'	2.11	0.50
35:BA:2773:C:H2'	35:BA:2774:C:H6	1.75	0.50
46:DN:70:LYS:HB3	46:DN:87:LEU:HB2	1.94	0.50
36:DB:20:C:O2'	36:DB:21:G:H5'	2.12	0.50
33:D8:16:ILE:HD12	33:D8:57:ARG:HG2	1.93	0.50
35:DA:654(C):G:H2'	35:DA:654(D):G:H8	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:105:VAL:O	4:AD:105:VAL:HG12	2.12	0.50
1:CA:580:U:H2'	1:CA:581:G:C8	2.47	0.50
1:CA:36:C:O3'	12:CL:123:LYS:HA	2.12	0.50
4:CD:99:SER:O	4:CD:140:VAL:HG23	2.11	0.50
60:DI:88:ILE:HG13	60:DI:122:GLU:O	2.12	0.49
30:B5:40:LYS:CE	30:B5:46:CYS:HB3	2.42	0.49
24:AY:33:LEU:CD2	35:BA:1095:A:H61	2.24	0.49
54:DV:46:VAL:CG2	54:DV:47:VAL:H	2.04	0.49
54:DV:55:ALA:O	54:DV:56:SER:HB3	2.12	0.49
35:DA:2345:G:H5''	35:DA:2347:C:O4'	2.12	0.49
41:BG:21:ARG:HD2	41:BG:21:ARG:O	2.12	0.49
54:BV:39:LEU:CD1	54:BV:51:VAL:HA	2.42	0.49
31:D6:15:GLU:OE2	31:D6:41:PRO:HG3	2.11	0.49
25:B0:11:ARG:O	25:B0:12:ASN:ND2	2.45	0.49
24:CY:46:ARG:O	24:CY:50:GLN:HB2	2.12	0.49
45:DK:13:PRO:HG2	45:DK:16:LYS:O	2.11	0.49
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.94	0.49
57:DY:7:VAL:CG2	57:DY:8:LYS:HZ3	2.22	0.49
43:BI:9:LEU:HD12	43:BI:12:LEU:HB2	1.92	0.49
24:CY:336:VAL:C	24:CY:338:ASP:H	2.14	0.49
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	2.17	0.49
22:AW:7:A:O2'	22:AW:8:U:H5'	2.12	0.49
35:DA:2183:C:H2'	35:DA:2184:G:C8	2.47	0.49
1:CA:1317:C:OP1	14:CN:17:LYS:HE2	2.12	0.49
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.51	0.49
37:DC:42:GLU:HB2	37:DC:44:HIS:CE1	2.47	0.49
3:CC:113:ALA:O	3:CC:115:LEU:N	2.46	0.49
35:BA:1685:C:H2'	35:BA:1686:C:C5'	2.41	0.49
39:BE:57:LYS:HB3	39:BE:57:LYS:HZ2	1.75	0.49
46:BN:47:ALA:HB2	46:BN:112:LEU:CD1	2.41	0.49
3:AC:175:LEU:N	3:AC:175:LEU:HD12	2.26	0.49
27:B2:43:GLN:O	27:B2:44:LEU:CG	2.59	0.49
1:CA:918:A:O2'	1:CA:919:A:H5'	2.12	0.49
47:DO:4:PRO:HA	47:DO:21:CYS:O	2.12	0.49
35:BA:2579:C:H4'	39:BE:134:ILE:HD12	1.94	0.49
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.77	0.49
30:D5:20:ARG:HA	30:D5:23:HIS:CD2	2.47	0.49
17:CQ:18:THR:HG23	17:CQ:69:LYS:HE3	1.94	0.49
35:BA:1037:G:H1	35:BA:1118:C:N4	2.06	0.49
42:DH:84:SER:O	42:DH:85:LYS:HB3	2.12	0.49
1:AA:512:U:H2'	1:AA:513:C:H6	1.75	0.49
18:AR:86:VAL:C	18:AR:87:ARG:HD3	2.32	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:87:ARG:HG2	18:AR:87:ARG:HH11	1.76	0.49
18:AR:87:ARG:O	18:AR:87:ARG:HG2	2.12	0.49
1:CA:791:G:C6	1:CA:792:A:N7	2.80	0.49
39:DE:9:VAL:CG2	39:DE:25:VAL:HB	2.41	0.49
1:AA:294:U:H2'	1:AA:295:C:C6	2.43	0.49
24:AY:106:LEU:C	24:AY:108:ASN:N	2.65	0.49
22:CV:63:G:H2'	22:CV:64:A:C8	2.47	0.49
16:AP:29:ASP:OD2	16:AP:29:ASP:N	2.44	0.49
1:CA:1255:G:C5'	3:CC:26:LYS:HE3	2.42	0.49
45:BK:109:LYS:HA	45:BK:112:MET:HE2	1.94	0.49
35:BA:2846:G:H2'	35:BA:2847:U:C6	2.47	0.49
1:AA:865:A:H2'	1:AA:866:C:H6	1.77	0.49
15:CO:70:LEU:HD12	15:CO:70:LEU:O	2.12	0.49
11:AK:123:LYS:HA	11:AK:126:ARG:HD3	1.94	0.49
47:DO:13:ASN:HD22	47:DO:97:ARG:HB2	1.75	0.49
46:BN:18:ALA:HB1	46:BN:21:LYS:HG3	1.92	0.49
35:BA:296:C:O2'	35:BA:297:C:H5'	2.11	0.49
37:BC:47:LEU:HG	37:BC:48:GLY:N	2.27	0.49
38:DD:164:GLN:HG2	38:DD:165:ILE:H	1.77	0.49
1:AA:1270:C:O2'	1:AA:1271:G:H5'	2.12	0.49
35:DA:1412:A:O2'	35:DA:1413:G:H5'	2.11	0.49
49:BQ:52:VAL:HG22	49:BQ:53:ALA:N	2.27	0.49
35:DA:1424:G:H2'	35:DA:1425:G:O4'	2.11	0.49
55:DW:71:VAL:HA	55:DW:107:LEU:HD12	1.94	0.49
1:CA:1083:U:H5	1:CA:1084:G:C6	2.29	0.49
40:DF:39:TRP:CH2	40:DF:106:ARG:HD3	2.47	0.49
35:BA:1586:A:H3'	35:BA:1587:A:O4'	2.11	0.49
27:D2:64:LEU:O	27:D2:64:LEU:HD23	2.12	0.49
35:BA:2540:C:H2'	35:BA:2541:A:O4'	2.12	0.49
35:BA:1888:G:H3'	35:BA:1888:G:N3	2.27	0.49
58:DZ:167:PRO:O	58:DZ:168:GLU:CB	2.60	0.49
13:CM:23:TYR:HB3	13:CM:67:GLU:HA	1.93	0.49
35:DA:598:G:C5'	48:DP:15:ARG:HD2	2.21	0.49
60:DI:81:VAL:CG2	60:DI:146:ALA:N	2.57	0.49
40:BF:28:ILE:HD11	40:BF:115:ALA:HB3	1.94	0.49
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.32	0.49
35:BA:598:G:C4'	48:BP:15:ARG:HB3	2.42	0.49
58:BZ:166:SER:H	58:BZ:167:PRO:CA	2.18	0.49
30:D5:3:LYS:CA	30:D5:3:LYS:HE3	2.23	0.49
33:D8:61:LEU:HD12	33:D8:62:LEU:CG	2.37	0.49
59:D4:38:ALA:HA	59:D4:55:PRO:HA	1.94	0.49
41:DG:75:LYS:NZ	41:DG:75:LYS:HB3	2.27	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:55:LEU:O	24:CY:59:VAL:HG23	2.12	0.49
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.47	0.49
24:AY:42:PRO:HG2	24:AY:43:GLU:OE1	2.11	0.49
28:B3:37:LEU:O	28:B3:38:GLU:O	2.29	0.49
40:DF:53:THR:N	40:DF:56:GLU:OE2	2.33	0.49
42:BH:88:LEU:C	42:BH:89:ILE:HG13	2.33	0.49
13:AM:84:ILE:HG13	19:AS:66:MET:CE	2.42	0.49
13:AM:84:ILE:HG13	19:AS:66:MET:HE2	1.94	0.49
1:AA:1431:C:O2'	1:AA:1432:G:H5'	2.12	0.49
9:CI:103:THR:CG2	9:CI:104:ARG:N	2.75	0.49
51:DS:26:LEU:HD13	51:DS:87:PHE:HD1	1.76	0.49
51:BS:16:ASN:ND2	51:BS:92:TYR:CE1	2.80	0.49
9:AI:90:PRO:C	9:AI:92:TYR:H	2.16	0.49
42:DH:96:ALA:HB2	42:DH:105:LEU:HA	1.93	0.49
48:DP:56:SER:O	48:DP:57:THR:O	2.29	0.49
39:BE:81:ILE:O	39:BE:82:ARG:CB	2.60	0.49
57:DY:55:TYR:O	57:DY:56:PRO:C	2.50	0.49
1:AA:1317:C:OP1	14:AN:17:LYS:HE2	2.12	0.49
39:BE:7:VAL:HG22	39:BE:27:LEU:HB3	1.94	0.49
53:DU:26:GLY:C	53:DU:28:ARG:N	2.64	0.49
1:AA:1429:C:H2'	1:AA:1430:C:C5	2.47	0.49
8:CH:85:ARG:NE	8:CH:87:SER:O	2.45	0.49
1:CA:193:C:O2'	1:CA:194:C:H5'	2.12	0.49
14:AN:12:ARG:HB3	14:AN:14:PRO:HD2	1.94	0.49
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.50	0.49
22:AV:39:U:H2'	22:AV:40:C:H6	1.77	0.49
45:DK:58:THR:HG22	45:DK:59:ILE:N	2.27	0.49
42:DH:41:MET:SD	42:DH:41:MET:N	2.86	0.49
35:DA:2262:U:H2'	35:DA:2263:C:H5'	1.93	0.49
42:BH:41:MET:SD	42:BH:41:MET:N	2.85	0.49
39:BE:151:TYR:HD2	39:BE:154:LYS:NZ	2.09	0.49
3:CC:167:TRP:O	3:CC:168:ALA:HB2	2.12	0.49
36:BB:40:U:H3'	36:BB:41:U:H5''	1.95	0.49
4:AD:128:VAL:CG1	4:AD:129:ASN:N	2.75	0.49
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.94	0.49
24:AY:231:VAL:HG11	24:AY:268:GLN:CD	2.33	0.49
52:DT:118:ARG:H	52:DT:118:ARG:HD2	1.77	0.49
35:BA:2839:G:H5'	50:BR:46:GLY:HA2	1.94	0.49
35:BA:1384:A:N3	35:BA:1405:U:H1'	2.27	0.49
22:CV:62:C:H2'	22:CV:63:G:C5'	2.41	0.49
35:DA:2846:G:H2'	35:DA:2847:U:C6	2.47	0.49
3:CC:23:TYR:CD2	3:CC:24:ALA:N	2.80	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:889:C:O2'	35:DA:890:A:O5'	2.29	0.49
35:DA:324:A:C2'	35:DA:325:G:H5'	2.42	0.49
35:DA:1288:U:C2	35:DA:1327:C:O2	2.65	0.49
1:CA:197:A:N6	1:CA:221:C:C5'	2.75	0.49
35:DA:2848:G:C8	52:DT:97:ALA:HB2	2.46	0.49
6:AF:42:GLU:C	6:AF:44:GLY:H	2.16	0.49
36:DB:30:C:H2'	36:DB:31:C:O4'	2.12	0.49
39:BE:14:ILE:O	39:BE:21:VAL:HG22	2.11	0.49
11:AK:126:ARG:O	11:AK:127:LYS:C	2.50	0.49
46:DN:18:ALA:HB1	46:DN:21:LYS:HG3	1.93	0.49
1:CA:1084:G:H5'	1:CA:1102:A:OP2	2.12	0.49
1:CA:1517:G:H1'	35:DA:1919:A:O3'	2.12	0.49
3:AC:186:PHE:HA	3:AC:198:VAL:O	2.12	0.49
35:BA:2878:U:C2'	35:BA:2879:C:H5'	2.42	0.49
24:AY:264:THR:HG22	24:AY:265:THR:HG23	1.92	0.49
5:AE:57:LYS:HG2	5:AE:61:TYR:HE2	1.76	0.49
57:BY:19:LYS:NZ	57:BY:19:LYS:HB2	2.27	0.49
2:AB:9:GLU:HG3	2:AB:10:LEU:N	2.27	0.49
57:DY:96:ILE:HD12	57:DY:99:CYS:HB2	1.94	0.49
57:BY:81:LYS:HZ1	57:BY:97:ARG:HG3	1.77	0.49
22:AW:17:C:C5	35:BA:2181:G:H5'	2.41	0.49
58:DZ:120:ILE:O	58:DZ:121:HIS:CB	2.60	0.49
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.93	0.49
4:AD:33:MET:CE	4:AD:37:PRO:HA	2.42	0.49
24:CY:15:GLY:HA3	24:CY:19:ILE:HG12	1.95	0.49
41:BG:114:ILE:O	41:BG:116:ASP:N	2.44	0.49
41:BG:47:LYS:HD2	41:BG:82:LEU:HD12	1.94	0.49
54:DV:35:LEU:HD22	54:DV:35:LEU:N	2.27	0.49
35:DA:2346:A:C2	35:DA:2383:G:C2	3.00	0.49
9:CI:50:LEU:O	9:CI:53:VAL:HG22	2.12	0.49
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	1.94	0.49
57:BY:8:LYS:HE2	57:BY:69:ALA:O	2.12	0.49
35:DA:2334:G:H21	51:DS:18:ILE:HG12	1.75	0.49
60:DI:9:LEU:O	60:DI:13:GLY:HA3	2.12	0.49
45:BK:131:ALA:HA	45:BK:136:VAL:CG1	2.43	0.49
19:CS:11:VAL:CG2	19:CS:16:LEU:HD11	2.42	0.49
48:BP:50:ARG:HD3	48:BP:51:PHE:N	2.26	0.49
38:BD:31:LYS:HG3	38:BD:33:LEU:CD2	2.43	0.49
37:BC:42:GLU:HB2	37:BC:44:HIS:CE1	2.47	0.49
3:CC:87:LEU:HA	3:CC:90:GLU:HG2	1.93	0.49
35:DA:2630:G:H1'	35:DA:2894:G:C1'	2.35	0.49
51:DS:74:ALA:CB	51:DS:103:GLU:HG3	2.40	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:723:U:O2	1:CA:723:U:C2'	2.59	0.49
1:CA:874:G:O2'	1:CA:875:C:H5'	2.12	0.49
34:D9:7:VAL:HA	34:D9:34:GLN:NE2	2.27	0.49
46:DN:23:LEU:CD1	46:DN:98:VAL:HG12	2.42	0.49
35:DA:1278:A:H5''	50:DR:36:THR:HG22	1.94	0.49
35:DA:910:A:H62	49:DQ:12:GLN:HA	1.77	0.49
12:CL:52:LEU:O	12:CL:54:LYS:HD2	2.12	0.49
39:DE:14:ILE:O	39:DE:21:VAL:HG22	2.12	0.49
53:BU:31:SER:C	53:BU:33:ARG:H	2.15	0.49
49:BQ:137:TYR:HD1	49:BQ:138:ASP:N	2.10	0.49
3:CC:76:VAL:HG21	3:CC:103:VAL:CG1	2.43	0.49
2:CB:92:TYR:CD2	2:CB:151:GLY:HA3	2.46	0.49
17:CQ:51:TYR:CD2	17:CQ:57:VAL:HG11	2.47	0.49
35:BA:271(A):A:H3'	35:BA:271(B):C:C6	2.47	0.49
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.77	0.49
17:AQ:51:TYR:CD2	17:AQ:57:VAL:HG11	2.47	0.49
1:CA:551:U:H2'	1:CA:552:U:H6	1.77	0.49
35:BA:2025:C:O2'	35:BA:2026:C:H5'	2.12	0.49
52:BT:58:ASN:C	52:BT:58:ASN:HD22	2.16	0.49
35:DA:962:G:C2'	35:DA:963:U:H5'	2.42	0.49
35:DA:1791:A:H3'	35:DA:1792:G:H8	1.77	0.49
35:DA:314:A:O2'	35:DA:315:G:H5'	2.12	0.49
2:AB:16:HIS:HD2	2:AB:210:SER:HA	1.77	0.49
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.43	0.49
35:BA:1544:A:H2	35:BA:1545:A:C2	2.30	0.49
35:DA:2273:A:O2'	35:DA:2274:A:H5'	2.11	0.49
1:CA:1186:G:N2	1:CA:1187:G:H1'	2.27	0.49
3:CC:206:GLU:O	3:CC:208:ILE:N	2.45	0.49
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.43	0.49
41:DG:9:ARG:O	41:DG:10:LYS:C	2.50	0.49
33:B8:61:LEU:HD12	33:B8:62:LEU:CG	2.38	0.49
33:B8:31:HIS:CG	33:B8:32:LEU:N	2.81	0.49
4:AD:107:ARG:NH2	4:AD:194:LEU:HD12	2.28	0.49
30:D5:46:CYS:O	30:D5:48:GLU:N	2.46	0.49
41:BG:132:ASN:ND2	41:BG:132:ASN:N	2.60	0.49
24:AY:31:ARG:HG2	45:BK:25:PRO:CG	2.41	0.49
57:BY:39:VAL:CG1	57:BY:40:GLU:H	2.13	0.49
8:AH:109:ILE:CG1	8:AH:110:ALA:H	2.23	0.49
35:DA:1529:G:N3	35:DA:1529:G:H2'	2.26	0.49
35:BA:534:U:O2'	53:BU:49:HIS:HD2	1.94	0.49
24:CY:139:MET:O	24:CY:139:MET:HG2	2.12	0.49
35:BA:827:U:H2'	35:BA:2068:U:C2	2.48	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:878:G:C1'	8:AH:3:THR:HG21	2.43	0.49
8:AH:86:ILE:O	8:AH:88:LYS:HG3	2.11	0.49
38:DD:142:VAL:HG23	38:DD:192:THR:O	2.13	0.49
58:DZ:146:ILE:HA	58:DZ:174:VAL:HG11	1.93	0.49
35:DA:2788:C:O2'	35:DA:2809:A:N3	2.42	0.49
38:BD:133:LEU:HG	38:BD:189:CYS:O	2.12	0.49
60:DI:110:ASP:OD2	60:DI:113:ARG:HG2	2.12	0.49
49:BQ:55:VAL:O	49:BQ:56:ARG:C	2.51	0.49
50:DR:4:LEU:O	50:DR:6:SER:N	2.45	0.49
11:AK:54:ARG:NH1	22:AW:39:U:O2'	2.45	0.49
45:BK:52:ILE:HG23	45:BK:52:ILE:O	2.12	0.49
27:B2:38:GLN:HE21	27:B2:44:LEU:HD13	1.76	0.49
22:CV:29:G:H1	22:CV:41:C:H42	1.60	0.49
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.80	0.49
1:CA:1112:C:N3	3:CC:178:LEU:HD23	2.27	0.49
9:AI:22:GLY:HA3	9:AI:60:ASP:OD2	2.12	0.49
54:BV:79:VAL:O	54:BV:80:GLN:HB2	2.13	0.49
35:DA:1516:C:H2'	35:DA:1517:G:H8	1.76	0.49
56:BX:15:GLU:CD	56:BX:15:GLU:N	2.62	0.49
16:CP:6:LEU:N	16:CP:6:LEU:CD1	2.75	0.49
35:BA:862:G:H2'	35:BA:863:A:O4'	2.12	0.49
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.12	0.49
1:CA:1191:A:OP2	3:CC:3:ASN:ND2	2.45	0.49
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.12	0.49
35:BA:1434:A:O2'	35:BA:1435:G:H5'	2.13	0.49
16:AP:28:ARG:NH1	16:AP:29:ASP:OD2	2.45	0.49
1:AA:108:G:H5'	1:AA:109:A:C5'	2.41	0.49
5:AE:28:PHE:HD1	5:AE:28:PHE:H	1.58	0.49
1:AA:197:A:N6	1:AA:221:C:C5'	2.76	0.49
2:AB:142:LEU:HD11	2:AB:146:GLN:NE2	2.26	0.49
35:DA:2590:A:O2'	35:DA:2591:C:H5'	2.12	0.49
37:DC:170:ALA:O	37:DC:172:HIS:N	2.46	0.49
1:CA:536:C:H2'	1:CA:537:G:C8	2.47	0.49
35:DA:476:G:H4'	35:DA:502:A:N1	2.27	0.49
35:BA:270:A:O2'	35:BA:271:A:H5'	2.12	0.49
4:CD:100:ARG:CZ	4:CD:137:SER:HA	2.43	0.49
25:B0:46:LYS:HD2	25:B0:78:TYR:CZ	2.47	0.49
43:BI:123:LEU:C	43:BI:123:LEU:HD23	2.33	0.49
35:DA:30:G:H2'	35:DA:31:C:C6	2.47	0.49
35:BA:139:G:C6	35:BA:140:G:H2'	2.47	0.49
41:DG:40:ASN:OD1	41:DG:40:ASN:C	2.51	0.49
13:CM:5:ALA:O	13:CM:6:GLY:C	2.49	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:154:G:C6	35:BA:154(A):C:N4	2.80	0.49
38:BD:55:GLY:O	38:BD:56:GLY:C	2.51	0.49
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.27	0.49
35:DA:598:G:C4'	48:DP:15:ARG:HB3	2.42	0.49
1:AA:1331:G:OP2	13:AM:23:TYR:CD2	2.63	0.49
48:BP:14:LYS:O	48:BP:15:ARG:CB	2.61	0.49
28:D3:3:ARG:O	28:D3:4:LEU:C	2.51	0.49
24:AY:59:VAL:HG13	24:AY:62:PHE:HD2	1.78	0.49
24:AY:65:LEU:HD23	24:AY:91:LEU:HD11	1.94	0.49
58:BZ:109:ALA:CB	58:BZ:145:GLU:HG2	2.42	0.49
35:BA:1841:U:H1'	38:BD:244:ARG:HH22	1.76	0.49
31:B6:36:LEU:HD23	31:B6:36:LEU:N	2.27	0.49
1:CA:1347:G:C6	9:CI:107:ARG:NH2	2.74	0.49
24:CY:54:ARG:HB2	24:CY:57:ARG:CZ	2.42	0.49
54:BV:18:LEU:HD13	54:BV:19:LYS:H	1.74	0.49
48:DP:62:LEU:N	48:DP:62:LEU:HD22	2.25	0.49
46:DN:120:LEU:HD13	46:DN:120:LEU:C	2.33	0.49
7:AG:50:ILE:HD11	7:AG:61:VAL:HG11	1.95	0.49
48:BP:48:PRO:O	48:BP:49:ARG:C	2.50	0.49
38:BD:25:THR:HG21	38:BD:81:ALA:CA	2.43	0.49
22:CV:2:C:C2'	22:CV:3:C:H5'	2.41	0.49
22:CV:3:C:C5'	22:CV:3:C:H6	2.16	0.49
2:AB:36:ARG:H	2:AB:41:ILE:CD1	2.17	0.49
39:DE:30:PRO:O	39:DE:32:PRO:HD3	2.12	0.49
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.59	0.49
57:BY:17:SER:OG	57:BY:18:GLY:N	2.46	0.49
33:D8:46:ARG:NH1	33:D8:46:ARG:HG2	2.27	0.49
49:DQ:55:VAL:O	49:DQ:56:ARG:C	2.50	0.49
51:BS:54:LEU:HA	51:BS:57:LYS:O	2.13	0.49
24:AY:141:THR:O	24:AY:145:GLU:HB2	2.13	0.49
5:CE:147:ASP:HB3	5:CE:150:ARG:NH2	2.22	0.49
42:BH:54:ARG:HD3	42:BH:65:HIS:CD2	2.47	0.49
1:AA:628:G:H2'	1:AA:629:G:C8	2.47	0.49
39:DE:134:ILE:H	39:DE:134:ILE:CD1	2.26	0.49
42:DH:115:VAL:HG12	42:DH:116:GLU:N	2.25	0.49
39:DE:11:MET:HB2	39:DE:23:VAL:O	2.12	0.49
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.43	0.49
36:DB:70:C:O2'	36:DB:71:C:H5'	2.13	0.49
10:AJ:78:ASN:HD22	10:AJ:81:THR:CG2	2.25	0.49
1:AA:77:G:C2'	1:AA:78:G:H5'	2.42	0.49
35:BA:71:A:O2'	35:BA:72:U:OP2	2.27	0.49
1:CA:741:G:H5'	15:CO:39:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:11:ASN:HD22	6:AF:86:ARG:NH2	2.11	0.49
46:DN:9:VAL:CG1	46:DN:10:GLU:N	2.75	0.49
5:AE:11:ILE:HD12	5:AE:31:LEU:HD12	1.94	0.49
7:AG:143:ARG:O	7:AG:147:ALA:HB2	2.12	0.49
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.47	0.49
18:CR:87:ARG:HG2	18:CR:87:ARG:HH11	1.77	0.49
35:BA:1046:A:C2	44:BJ:8:UNK:HA	2.43	0.49
1:CA:1109:C:C2'	1:CA:1110:A:H5'	2.42	0.49
58:BZ:27:VAL:HG12	58:BZ:87:ASP:CB	2.42	0.49
45:BK:105:LEU:O	45:BK:109:LYS:HG3	2.12	0.49
24:CY:189:LEU:HD12	24:CY:204:SER:CB	2.42	0.49
43:BI:38:LEU:HD13	43:BI:39:ALA:N	2.28	0.49
26:D1:84:GLY:O	26:D1:85:LEU:C	2.51	0.49
11:AK:126:ARG:NH1	11:AK:126:ARG:HB3	2.27	0.49
35:DA:1427:A:H1'	35:DA:1428:C:C5	2.47	0.49
35:DA:1675:C:C2	39:DE:129:HIS:CD2	2.99	0.49
15:AO:70:LEU:HD12	15:AO:70:LEU:O	2.13	0.49
35:DA:1411:C:H2'	35:DA:1412:A:H8	1.76	0.49
4:CD:100:ARG:NH1	4:CD:137:SER:HA	2.27	0.49
1:AA:632:A:H8	1:AA:633:G:C8	2.30	0.49
1:CA:349:A:O2'	1:CA:350:G:H5'	2.12	0.49
44:DJ:27:UNK:O	44:DJ:83:UNK:N	2.46	0.49
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.58	0.49
39:BE:40:GLU:N	39:BE:40:GLU:OE1	2.44	0.49
45:BK:132:ARG:HH11	45:BK:132:ARG:HG3	1.77	0.49
7:CG:27:ILE:HA	7:CG:30:ILE:HG12	1.95	0.49
35:DA:110:G:O2'	35:DA:111:A:H5'	2.13	0.49
13:AM:68:GLY:O	13:AM:72:ALA:N	2.44	0.49
52:BT:82:LEU:C	52:BT:84:GLN:H	2.16	0.49
40:BF:30:PRO:HA	40:BF:33:LEU:HD23	1.95	0.49
57:BY:60:PHE:CA	57:BY:62:GLU:OE2	2.52	0.49
1:AA:541:G:O2'	1:AA:542:G:H5'	2.13	0.49
35:DA:534:U:O2'	53:DU:49:HIS:CD2	2.65	0.49
48:BP:134:ALA:O	48:BP:136:GLU:N	2.45	0.49
38:BD:222:ARG:O	38:BD:226:MET:HE2	2.11	0.49
35:DA:1171:G:C5'	35:DA:1173:G:H5''	2.42	0.49
37:BC:59:ARG:HG2	37:BC:62:VAL:HG21	1.94	0.49
35:DA:2533:A:H2'	35:DA:2534:A:C5'	2.35	0.49
35:BA:1568:G:C5'	38:BD:61:LEU:HD13	2.34	0.49
20:CT:49:ALA:HB2	20:CT:99:LEU:HD12	1.95	0.49
38:BD:33:LEU:O	38:BD:35:LYS:N	2.46	0.49
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:10:LEU:HB3	8:AH:83:ILE:CD1	2.43	0.49
58:DZ:24:LEU:CD2	58:DZ:86:VAL:HG22	2.38	0.49
60:DI:101:LEU:HD13	60:DI:107:ILE:HG23	1.95	0.49
4:CD:122:ARG:HA	4:CD:134:ASP:HB2	1.93	0.49
35:BA:90:U:O2'	35:BA:92:A:H5''	2.12	0.49
1:AA:414:A:H2'	1:AA:415:A:O4'	2.12	0.49
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	1.94	0.49
1:CA:628:G:H2'	1:CA:629:G:C8	2.46	0.49
11:AK:21:ILE:HD13	11:AK:84:VAL:HG12	1.93	0.49
47:DO:64:ARG:NH1	47:DO:83:ALA:HB3	2.28	0.49
35:BA:2832:U:O4	35:BA:2883:A:H5''	2.12	0.49
1:AA:519:C:O2'	1:AA:520:A:H5'	2.12	0.49
33:B8:13:ARG:HA	48:BP:65:ARG:HD3	1.95	0.49
35:BA:2468:G:N2	35:BA:2481:G:O2'	2.45	0.49
17:AQ:61:GLU:HA	17:AQ:71:PHE:CE1	2.48	0.49
15:AO:64:ARG:NH2	35:BA:715:G:OP1	2.45	0.49
11:CK:125:PHE:CD1	11:CK:125:PHE:N	2.80	0.49
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.43	0.49
1:AA:973:G:H1'	10:AJ:55:LYS:HE2	1.94	0.49
54:BV:78:LYS:C	54:BV:79:VAL:HG23	2.32	0.49
1:CA:79:G:H1'	1:CA:80:G:C8	2.44	0.49
1:AA:1112:C:C4	3:AC:178:LEU:HD23	2.48	0.49
42:DH:120:GLY:HA3	42:DH:140:LYS:NZ	2.27	0.49
1:CA:474:G:H2'	1:CA:475:G:H8	1.77	0.49
35:DA:986:C:O2'	35:DA:987:G:H5'	2.12	0.49
22:CW:70:G:H2'	22:CW:71:G:H5'	1.94	0.49
35:DA:1812:A:H2'	35:DA:1813:G:C8	2.45	0.49
52:DT:55:ASN:H	52:DT:59:THR:HB	1.77	0.49
50:BR:18:LEU:CD1	50:BR:22:ARG:NE	2.75	0.49
6:CF:11:ASN:HD22	6:CF:86:ARG:NH2	2.10	0.49
35:BA:626:U:C2	48:BP:105:LEU:HB3	2.47	0.49
12:CL:119:LYS:C	12:CL:120:TYR:CD1	2.86	0.49
53:BU:102:GLU:HA	53:BU:104:GLN:HE22	1.77	0.49
38:DD:260:ARG:O	38:DD:261:LYS:C	2.48	0.49
35:DA:654(R):C:H2'	35:DA:654(S):G:C8	2.47	0.49
1:AA:537:G:OP1	12:AL:113:ARG:NH2	2.45	0.49
27:D2:57:ILE:HG22	27:D2:61:LEU:HD21	1.94	0.49
35:BA:1427:A:H1'	35:BA:1428:C:C5	2.47	0.49
35:DA:2432:A:H2'	35:DA:2433:A:C8	2.48	0.49
18:AR:74:ARG:HB3	18:AR:81:PHE:CE1	2.47	0.49
36:DB:87:G:N2	36:DB:89:G:H3'	2.27	0.49
56:BX:32:PRO:HA	56:BX:77:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1067:A:H1'	1:AA:1068:G:C8	2.47	0.49
24:CY:245:THR:HA	35:DA:2493:U:OP1	2.11	0.49
35:DA:2878:U:C2'	35:DA:2879:C:H5'	2.43	0.49
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.13	0.49
13:CM:96:LEU:HB3	13:CM:97:PRO:CD	2.43	0.49
51:BS:42:ASP:C	51:BS:44:LYS:H	2.16	0.49
35:BA:654(C):G:H2'	35:BA:654(D):G:H8	1.77	0.49
35:BA:78:A:H2'	35:BA:79:G:H8	1.77	0.49
43:BI:93:THR:N	43:BI:96:ASP:OD2	2.46	0.49
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.95	0.49
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.48	0.49
26:B1:51:VAL:HG13	26:B1:58:ILE:HG22	1.94	0.49
48:DP:50:ARG:HD3	48:DP:51:PHE:N	2.27	0.49
33:B8:4:MET:HB2	33:B8:61:LEU:HD11	1.92	0.49
35:BA:588:U:H2'	35:BA:589:C:C6	2.47	0.49
48:BP:23:PRO:CB	48:BP:33:ARG:HG3	2.36	0.49
58:BZ:150:LEU:CD1	58:BZ:150:LEU:H	2.25	0.49
30:B5:36:CYS:SG	30:B5:49:CYS:CB	3.00	0.49
4:CD:107:ARG:NH2	4:CD:194:LEU:HD12	2.28	0.49
41:BG:4:ASP:O	41:BG:5:VAL:HG13	2.13	0.49
52:DT:31:SER:OG	52:DT:32:TYR:N	2.45	0.49
2:AB:30:ARG:C	2:AB:32:ILE:H	2.14	0.49
31:D6:48:VAL:O	31:D6:49:HIS:HB2	2.11	0.49
24:CY:33:LEU:HB3	24:CY:36:PRO:HD3	1.95	0.49
57:DY:10:GLY:O	57:DY:27:VAL:HG22	2.12	0.49
9:AI:46:ALA:HB2	9:AI:74:ILE:HG23	1.93	0.49
9:AI:81:ILE:O	9:AI:85:LEU:HG	2.12	0.49
32:D7:47:ARG:C	32:D7:48:LYS:HD3	2.32	0.49
6:CF:30:LEU:N	6:CF:30:LEU:HD23	2.26	0.49
32:B7:46:VAL:HG12	32:B7:48:LYS:NZ	2.28	0.49
2:AB:51:LEU:HD22	2:AB:55:PHE:HE2	1.78	0.49
1:CA:355:C:H2'	1:CA:356:A:C8	2.28	0.49
19:AS:11:VAL:CG2	19:AS:16:LEU:HD11	2.42	0.49
42:BH:60:ARG:O	42:BH:64:LEU:HG	2.12	0.49
38:DD:31:LYS:HG3	38:DD:33:LEU:CG	2.42	0.49
22:CW:57:G:H2'	22:CW:57:G:N3	2.28	0.49
35:BA:27:G:O2'	35:BA:28:A:P	2.70	0.49
35:DA:90:U:O2'	35:DA:92:A:H5''	2.12	0.49
35:BA:2810:A:H2'	39:BE:61:ARG:CZ	2.42	0.49
8:CH:82:HIS:HD2	8:CH:138:TRP:NE1	2.11	0.49
35:DA:286:C:N4	35:DA:355:G:H1	2.07	0.49
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:47:ASP:C	16:AP:49:LEU:H	2.16	0.49
58:DZ:117:LEU:N	58:DZ:117:LEU:HD23	2.21	0.49
1:CA:614:A:C2	1:CA:627:G:C2	3.00	0.49
40:BF:7:TYR:HD2	40:BF:16:GLY:N	2.05	0.49
15:CO:23:GLY:O	15:CO:24:SER:CB	2.60	0.49
35:DA:796:C:H2'	35:DA:797:C:H6	1.77	0.49
3:AC:183:ASP:HB3	3:AC:202:ILE:HB	1.95	0.49
1:AA:79:G:H1'	1:AA:80:G:C8	2.44	0.49
10:CJ:13:HIS:C	10:CJ:15:THR:H	2.14	0.49
10:AJ:4:ILE:HD12	10:AJ:74:ILE:HD11	1.95	0.49
1:AA:791:G:C6	1:AA:792:A:N7	2.79	0.49
52:BT:118:ARG:HD2	52:BT:118:ARG:H	1.77	0.49
3:CC:164:ARG:HB3	3:CC:164:ARG:HH11	1.78	0.49
4:CD:68:TYR:CZ	4:CD:97:LEU:HD22	2.47	0.49
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.42	0.49
1:CA:443:C:H2'	1:CA:444:C:C6	2.47	0.49
24:CY:116:ALA:HB2	24:CY:177:TYR:HA	1.94	0.49
35:DA:469:G:O2'	35:DA:470:A:H5''	2.12	0.49
43:BI:37:VAL:HG12	43:BI:38:LEU:N	2.27	0.49
1:AA:148:G:H2'	1:AA:149:A:C8	2.47	0.49
35:BA:290:G:O2'	35:BA:291:C:H5'	2.12	0.49
35:DA:1665:A:O2'	35:DA:1666:G:H5'	2.12	0.49
13:CM:65:LYS:NZ	13:CM:65:LYS:HB2	2.27	0.49
22:AV:24:G:O2'	22:AV:25:C:H5'	2.13	0.49
1:AA:169:C:H2'	1:AA:170:U:H5'	1.95	0.49
1:CA:779:C:O2'	1:CA:780:A:H5'	2.13	0.49
40:DF:117:ARG:HG2	40:DF:192:LEU:HB2	1.95	0.49
35:DA:2094:G:P	60:DI:22:LYS:HD2	2.53	0.49
35:BA:582:G:H2'	35:BA:583:G:H8	1.76	0.49
53:BU:16:LYS:O	53:BU:20:LEU:HD22	2.12	0.49
35:BA:2777:G:H4'	35:BA:2778:A:H5'	1.94	0.49
18:AR:48:GLY:O	18:AR:74:ARG:NH2	2.46	0.49
35:DA:1161:C:H1'	54:DV:8:GLY:O	2.13	0.49
35:DA:2009:G:H5'	55:DW:40:ASN:ND2	2.27	0.49
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.13	0.49
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.30	0.49
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.47	0.49
49:BQ:47:ILE:HD12	49:BQ:70:PRO:HD3	1.95	0.49
53:DU:16:LYS:O	53:DU:20:LEU:HD22	2.12	0.49
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.48	0.49
1:AA:506:G:H2'	1:AA:507:C:C6	2.48	0.49
1:CA:1201:A:H1'	1:CA:1202:G:OP2	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1530:G:H4'	1:AA:1530:G:OP1	2.12	0.49
22:CV:37:A:H3'	22:CV:38:A:H8	1.77	0.49
35:BA:1424:G:H2'	35:BA:1425:G:O4'	2.12	0.49
33:D8:14:VAL:CG2	33:D8:22:VAL:CG1	2.90	0.49
57:BY:97:ARG:HG3	57:BY:97:ARG:NH1	2.26	0.49
41:DG:10:LYS:O	41:DG:14:GLU:HB3	2.12	0.49
35:BA:2183:C:H2'	35:BA:2184:G:C8	2.48	0.49
1:CA:1306:A:N6	1:CA:1331:G:H1'	2.27	0.49
31:D6:32:ASN:O	31:D6:33:LYS:HG2	2.13	0.49
48:BP:23:PRO:C	48:BP:33:ARG:HD2	2.32	0.49
35:DA:498:G:O2'	35:DA:499:U:H5'	2.12	0.49
33:B8:14:VAL:CG2	33:B8:22:VAL:CG1	2.91	0.49
1:CA:541:G:O2'	1:CA:542:G:H5'	2.12	0.49
53:DU:91:ASP:O	53:DU:92:ARG:O	2.31	0.49
54:DV:6:LYS:HG2	54:DV:37:VAL:CB	2.41	0.49
54:DV:39:LEU:CD1	54:DV:51:VAL:HA	2.42	0.49
40:DF:53:THR:C	40:DF:55:GLY:N	2.66	0.49
60:DI:53:ALA:O	60:DI:57:ARG:HG3	2.12	0.49
37:DC:74:VAL:HG22	37:DC:119:VAL:CB	2.42	0.49
54:DV:25:LEU:C	54:DV:27:ALA:H	2.16	0.49
37:DC:59:ARG:HG2	37:DC:62:VAL:HG21	1.94	0.49
22:AW:64:A:O2'	22:AW:65:G:H8	1.96	0.49
35:BA:941:A:O3'	48:BP:35:HIS:HB2	2.13	0.49
42:DH:31:GLY:H	42:DH:79:VAL:HG12	1.77	0.49
40:DF:65:TRP:CH2	40:DF:75:HIS:HD2	2.30	0.49
40:DF:65:TRP:CZ3	40:DF:73:ALA:O	2.66	0.49
38:DD:31:LYS:HG3	38:DD:33:LEU:CD2	2.42	0.49
7:AG:102:ARG:O	7:AG:106:GLN:HG3	2.13	0.49
22:CW:8:U:H1'	22:CW:48:C:O2	2.13	0.49
53:DU:28:ARG:NH1	53:DU:38:THR:OG1	2.44	0.49
4:AD:162:LEU:HD12	4:AD:181:MET:HE2	1.94	0.49
10:AJ:22:LYS:C	10:AJ:22:LYS:HD2	2.33	0.49
27:B2:48:HIS:ND1	35:BA:95:G:O2'	2.44	0.49
51:DS:57:LYS:O	51:DS:58:LEU:HB3	2.13	0.49
1:AA:410:G:OP2	4:AD:25:ARG:HG3	2.12	0.49
35:BA:2575:C:H2'	35:BA:2578:G:O6	2.12	0.49
1:CA:624:C:H4'	16:CP:10:GLY:O	2.13	0.49
26:B1:29:GLY:C	26:B1:31:GLY:H	2.11	0.49
42:BH:114:VAL:HG23	42:BH:115:VAL:N	2.27	0.49
38:BD:237:GLU:O	38:BD:237:GLU:OE2	2.31	0.49
10:CJ:32:ALA:H	10:CJ:78:ASN:HD21	1.57	0.49
38:DD:147:LEU:HD13	38:DD:155:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:35:GLU:HG3	13:AM:36:LYS:H	1.75	0.49
6:CF:98:LEU:HD13	6:CF:101:ALA:CB	2.42	0.49
1:AA:1033:G:H5''	35:DA:2116:G:OP2	2.12	0.49
35:DA:2200:C:H5'	35:DA:2201:C:OP2	2.12	0.49
1:AA:262:A:H5''	20:AT:76:ALA:HB2	1.94	0.49
18:CR:86:VAL:C	18:CR:87:ARG:HD3	2.33	0.49
4:AD:4:TYR:CG	4:AD:5:ILE:N	2.78	0.49
35:DA:646:A:H2'	35:DA:647:G:O4'	2.12	0.49
1:CA:499:A:H4'	1:CA:500:G:H5'	1.95	0.49
35:BA:2075:U:H2'	35:BA:2238:G:N2	2.28	0.49
35:DA:633:A:H2'	35:DA:634:C:H5'	1.93	0.49
49:DQ:60:ARG:CB	49:DQ:60:ARG:HH11	2.26	0.49
1:AA:443:C:H2'	1:AA:444:C:C6	2.47	0.49
11:CK:120:ARG:CZ	11:CK:126:ARG:HE	2.26	0.49
18:CR:48:GLY:O	18:CR:74:ARG:NH2	2.45	0.49
38:DD:201:HIS:C	38:DD:203:ASN:H	2.16	0.49
4:CD:104:VAL:C	4:CD:106:TYR:H	2.16	0.49
1:CA:516:U:O2'	1:CA:517:G:H5'	2.12	0.49
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.43	0.49
2:CB:235:SER:O	2:CB:239:VAL:HG23	2.12	0.49
35:BA:1227:G:P	53:BU:13:LYS:HZ3	2.35	0.49
55:DW:110:LYS:HG3	55:DW:111:HIS:H	1.78	0.49
1:AA:1111:A:N1	3:AC:177:THR:HG23	2.27	0.49
35:BA:476:G:H4'	35:BA:502:A:N1	2.27	0.49
32:D7:35:ARG:NH1	32:D7:42:LEU:HD11	2.27	0.49
35:BA:137:C:O2	35:BA:137:C:H2'	2.12	0.49
35:BA:2581:G:N3	35:BA:2581:G:H2'	2.28	0.49
1:AA:349:A:O2'	1:AA:350:G:H5'	2.12	0.49
40:BF:157:VAL:HB	40:BF:194:MET:HB3	1.95	0.49
57:DY:96:ILE:CG2	57:DY:97:ARG:N	2.74	0.49
58:DZ:48:PHE:HE2	58:DZ:71:VAL:HG11	1.77	0.49
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.28	0.49
48:DP:24:GLY:N	48:DP:33:ARG:NH1	2.61	0.49
40:BF:22:ALA:HA	40:BF:26:ALA:CB	2.36	0.49
40:BF:24:LEU:O	40:BF:26:ALA:N	2.46	0.49
35:DA:588:U:H2'	35:DA:589:C:C6	2.48	0.49
35:BA:2313:C:H2'	35:BA:2314:C:H6	1.77	0.49
36:BB:30:C:H2'	36:BB:31:C:O4'	2.13	0.49
52:DT:88:ILE:HG22	52:DT:89:VAL:CG2	2.25	0.49
48:BP:146:VAL:HG22	48:BP:147:LEU:N	2.28	0.49
37:BC:82:LYS:CE	37:BC:151:GLU:HA	2.34	0.49
31:D6:16:CYS:O	31:D6:17:LYS:CB	2.59	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D6:19:ARG:HG3	35:DA:2400:G:H4'	1.94	0.49
35:BA:995:C:C5	53:BU:57:PHE:HE1	2.31	0.49
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.78	0.49
25:B0:50:ASN:HB3	25:B0:63:VAL:HG22	1.94	0.49
60:DI:8:PRO:O	60:DI:13:GLY:HA2	2.13	0.49
46:DN:31:ALA:O	46:DN:34:LEU:N	2.46	0.49
1:CA:59:A:N6	1:CA:331:G:H1'	2.26	0.49
40:BF:64:ILE:HG12	40:BF:65:TRP:CD1	2.48	0.49
52:DT:100:TYR:O	52:DT:102:ILE:N	2.46	0.49
38:BD:62:TYR:CD2	38:BD:63:ARG:N	2.79	0.49
38:DD:25:THR:HG21	38:DD:81:ALA:CA	2.43	0.49
39:DE:81:ILE:O	39:DE:81:ILE:HG22	2.12	0.49
10:CJ:90:LEU:HD12	10:CJ:90:LEU:N	2.28	0.49
35:BA:1208:C:O2'	35:BA:1209:G:H5'	2.12	0.49
7:AG:15:ASP:CB	7:AG:20:ASP:H	2.26	0.49
7:CG:17:VAL:HG21	7:CG:44:TYR:CE1	2.47	0.49
5:CE:148:VAL:HG21	8:CH:107:LEU:HD13	1.94	0.49
43:BI:4:ILE:HG22	43:BI:5:LEU:N	2.26	0.49
5:CE:32:VAL:O	5:CE:43:LEU:HD12	2.13	0.49
14:CN:27:CYS:SG	14:CN:29:ARG:HB2	2.52	0.49
60:DI:12:LEU:HD12	60:DI:19:VAL:HG21	1.94	0.49
3:AC:119:ARG:HE	3:AC:140:ARG:NH2	2.11	0.49
2:AB:98:LEU:O	2:AB:101:MET:HG3	2.12	0.49
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.66	0.49
2:AB:82:ARG:HB3	2:AB:94:ASN:HD21	1.77	0.49
17:AQ:43:LEU:O	17:AQ:69:LYS:HG3	2.12	0.49
38:DD:183:ARG:HB3	38:DD:270:ILE:HG22	1.93	0.49
1:AA:591:U:H2'	1:AA:592:G:C8	2.44	0.49
3:CC:16:ARG:HH22	3:CC:183:ASP:HA	1.78	0.49
37:DC:67:GLY:HA2	37:DC:162:GLU:O	2.13	0.49
35:BA:2483:C:N3	49:BQ:124:LYS:NZ	2.59	0.49
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.12	0.49
39:BE:108:SER:OG	39:BE:163:GLU:HG2	2.13	0.49
1:AA:166:G:H2'	1:AA:167:G:H8	1.78	0.49
35:BA:229:A:H3'	35:BA:230:U:C5'	2.43	0.49
35:BA:1797:C:O2'	38:BD:259:THR:CG2	2.61	0.49
40:BF:140:LEU:CD1	40:BF:170:LEU:HD21	2.42	0.49
1:CA:1019:C:H2'	1:CA:1020:U:H6	1.78	0.49
35:DA:582:G:H2'	35:DA:583:G:C8	2.48	0.49
35:BA:654:A:N1	35:BA:654(U):A:O2'	2.46	0.49
24:CY:250:ARG:HB2	24:CY:261:THR:HG22	1.95	0.49
46:BN:96:GLU:N	46:BN:96:GLU:OE2	2.29	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:654(C):G:H2'	35:DA:654(D):G:C8	2.47	0.49
55:DW:68:ARG:HG3	55:DW:68:ARG:HH11	1.78	0.49
1:CA:1337:G:H5''	1:CA:1338:G:OP2	2.12	0.49
8:CH:38:ILE:HD11	8:CH:118:VAL:O	2.13	0.49
1:CA:439:A:H2'	1:CA:441:A:O4'	2.13	0.49
45:BK:41:PHE:C	45:BK:43:ALA:H	2.14	0.49
35:DA:809:G:O2'	35:DA:810:U:H5'	2.13	0.49
8:AH:119:LEU:N	8:AH:119:LEU:HD23	2.28	0.49
59:D4:40:ILE:N	59:D4:40:ILE:HD12	2.28	0.49
49:DQ:25:ASP:N	49:DQ:25:ASP:OD2	2.40	0.49
35:BA:69:C:H2'	35:BA:69:C:O2	2.12	0.49
1:CA:1387:G:H2'	1:CA:1387:G:N3	2.27	0.49
17:AQ:34:LYS:O	17:AQ:36:ILE:HG23	2.12	0.49
1:CA:696:A:O2'	1:CA:697:U:H5'	2.12	0.49
24:AY:99:ASP:OD2	24:AY:103:HIS:ND1	2.46	0.49
33:D8:14:VAL:HG22	33:D8:22:VAL:HG13	1.95	0.49
58:BZ:71:VAL:HG22	58:BZ:88:PHE:HD2	1.77	0.49
58:DZ:52:SER:HB3	58:DZ:54:HIS:CD2	2.48	0.49
35:BA:2383:G:O2'	35:BA:2384:G:H5'	2.12	0.49
35:BA:498:G:O2'	35:BA:499:U:H5'	2.11	0.49
35:DA:747:U:O2	35:DA:2014:A:H1'	2.12	0.49
35:BA:807:U:O2'	35:BA:808:G:H5'	2.13	0.49
9:CI:18:PHE:HB2	9:CI:62:TYR:O	2.13	0.49
9:AI:97:LYS:O	9:AI:100:GLY:N	2.44	0.49
9:AI:85:LEU:HD12	9:AI:86:VAL:N	2.28	0.49
10:AJ:98:ILE:N	10:AJ:98:ILE:HD12	2.26	0.49
1:AA:59:A:H1'	1:AA:354:G:N2	2.28	0.49
47:DO:43:VAL:HG23	47:DO:56:ASP:O	2.13	0.49
1:AA:959:A:H2'	1:AA:960:U:H4'	1.95	0.49
35:BA:654(L):G:H3'	35:BA:654(L):G:N3	2.27	0.49
17:AQ:52:LYS:HD2	17:AQ:55:ASP:OD2	2.12	0.49
8:AH:82:HIS:CD2	8:AH:138:TRP:HE1	2.29	0.49
1:AA:939:G:C5'	7:AG:102:ARG:HH22	2.21	0.49
35:DA:2445:G:OP1	40:DF:74:ARG:NH2	2.45	0.49
38:BD:185:VAL:HG12	38:BD:189:CYS:SG	2.53	0.49
35:DA:2379:G:H2'	35:DA:2380:C:C6	2.48	0.49
11:CK:111:ASP:OD2	18:CR:84:LYS:HE3	2.13	0.49
1:AA:424:G:N7	35:DA:2139:C:H5''	2.26	0.49
58:BZ:116:VAL:O	58:BZ:174:VAL:HA	2.13	0.49
9:CI:114:TYR:CE1	10:CJ:60:ARG:N	2.71	0.49
10:AJ:48:THR:OG1	10:AJ:62:HIS:HB3	2.13	0.49
45:DK:66:THR:HG23	45:DK:66:THR:O	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D3:44:ARG:C	28:D3:48:GLU:HG3	2.34	0.49
1:AA:674:G:H21	11:AK:116:HIS:HB2	1.77	0.49
2:AB:102:LEU:HB2	2:AB:176:GLU:HB3	1.94	0.49
1:AA:639:G:H2'	1:AA:640:A:H8	1.76	0.49
45:DK:109:LYS:HA	45:DK:112:MET:CE	2.43	0.49
45:DK:105:LEU:O	45:DK:109:LYS:HG3	2.13	0.49
40:DF:160:ASN:C	40:DF:160:ASN:HD22	2.15	0.49
1:CA:79:G:O2'	1:CA:80:G:O5'	2.31	0.49
1:AA:22:G:H2'	1:AA:23:C:H6	1.77	0.49
1:AA:102:G:H2'	1:AA:103:C:H6	1.78	0.49
1:AA:474:G:H2'	1:AA:475:G:H8	1.76	0.49
48:DP:17:LYS:C	48:DP:19:VAL:N	2.65	0.49
1:CA:1288:A:H1'	1:CA:1352:C:O2'	2.13	0.49
52:DT:54:ARG:HG2	52:DT:54:ARG:NH1	2.28	0.49
9:CI:121:ARG:NH1	9:CI:121:ARG:HG2	2.28	0.49
35:DA:2354:G:H2'	35:DA:2355:C:H6	1.77	0.49
55:DW:79:GLY:O	55:DW:100:THR:HG23	2.13	0.49
45:BK:109:LYS:HA	45:BK:112:MET:CE	2.43	0.49
17:AQ:76:LEU:CG	17:AQ:77:VAL:H	2.25	0.49
1:AA:677:U:H3	1:AA:713:G:H22	1.61	0.49
1:AA:596:C:O2'	1:AA:597:G:H5'	2.13	0.49
35:DA:301:G:C4	35:DA:302:C:C5	3.01	0.49
35:DA:271(J):C:C2'	35:DA:271(K):U:H5''	2.43	0.49
16:AP:58:TYR:O	16:AP:61:SER:N	2.45	0.49
1:AA:35:G:H2'	1:AA:36:C:C6	2.48	0.49
11:CK:123:LYS:HA	11:CK:126:ARG:HD3	1.94	0.49
35:DA:919:G:H5'	36:DB:81:G:C1'	2.43	0.49
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.95	0.49
35:DA:1411:C:H2'	35:DA:1412:A:C8	2.48	0.49
1:CA:157:G:O2'	1:CA:158:G:H5'	2.13	0.49
1:AA:598:U:H4'	8:AH:94:TYR:CG	2.48	0.49
1:CA:1307:U:O2'	1:CA:1308:U:H5'	2.13	0.49
15:AO:10:LYS:HE3	15:AO:14:GLU:OE2	2.13	0.49
35:DA:1912:A:O2'	35:DA:1913:A:H5'	2.11	0.49
10:AJ:21:GLN:HG2	10:AJ:21:GLN:O	2.13	0.49
1:AA:1387:G:N3	1:AA:1387:G:H2'	2.27	0.49
35:DA:1766:U:O2'	35:DA:1767:C:H5'	2.13	0.49
26:D1:80:LEU:HD13	26:D1:82:LEU:HD21	1.94	0.48
13:CM:7:VAL:HG12	13:CM:7:VAL:O	2.13	0.48
48:DP:14:LYS:O	48:DP:15:ARG:CB	2.61	0.48
31:B6:28:ARG:NH2	31:B6:33:LYS:HE3	2.28	0.48
16:AP:6:LEU:CD1	16:AP:6:LEU:N	2.76	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D3:54:VAL:HG22	28:D3:55:ARG:N	2.27	0.48
42:BH:19:VAL:CG2	42:BH:44:VAL:HG13	2.43	0.48
40:DF:30:PRO:HA	40:DF:33:LEU:HD23	1.95	0.48
4:AD:14:ARG:O	4:AD:16:GLY:N	2.46	0.48
41:DG:51:ARG:NH2	41:DG:52:ILE:H	2.10	0.48
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.94	0.48
35:BA:1171:G:H3'	35:BA:1173:G:C4'	2.42	0.48
22:CW:43:C:C2'	22:CW:44:G:H5'	2.43	0.48
52:DT:41:ARG:NH1	52:DT:41:ARG:HB3	2.28	0.48
9:AI:100:GLY:C	9:AI:102:LEU:N	2.66	0.48
35:DA:1116:C:H2'	35:DA:1117:G:C5'	2.33	0.48
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.31	0.48
24:AY:149:PHE:HD1	24:AY:173:GLY:HA3	1.78	0.48
22:AW:61:C:C6	22:AW:62:C:H5	2.30	0.48
58:BZ:8:TYR:O	58:BZ:37:VAL:HA	2.13	0.48
2:AB:220:ASP:O	2:AB:222:ILE:N	2.44	0.48
56:BX:9:LEU:HD12	56:BX:30:VAL:O	2.13	0.48
9:AI:4:TYR:CD1	9:AI:4:TYR:N	2.81	0.48
52:DT:129:ARG:NE	52:DT:131:ALA:HB3	2.26	0.48
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.95	0.48
2:CB:41:ILE:N	2:CB:41:ILE:HD12	2.28	0.48
39:DE:36:ARG:NH1	39:DE:86:PRO:HD2	2.25	0.48
35:BA:914:C:C2'	35:BA:915:C:H5'	2.37	0.48
35:DA:2810:A:H2'	39:DE:61:ARG:CZ	2.42	0.48
4:CD:120:LEU:HD23	4:CD:125:HIS:HD2	1.78	0.48
35:BA:1053:C:H42	35:BA:1107:G:N2	2.11	0.48
54:BV:28:GLU:HB2	54:BV:31:ALA:CB	2.43	0.48
35:DA:1053:C:H42	35:DA:1107:G:N2	2.10	0.48
14:CN:21:TYR:OH	14:CN:23:ARG:NH2	2.46	0.48
16:CP:51:VAL:CG1	16:CP:52:ASP:N	2.75	0.48
46:BN:43:THR:O	46:BN:46:VAL:HG12	2.13	0.48
35:BA:286:C:N4	35:BA:355:G:H1	2.07	0.48
1:AA:1189:C:P	10:AJ:51:ARG:HH22	2.35	0.48
14:AN:41:ARG:HG2	14:AN:41:ARG:HH11	1.78	0.48
35:BA:2261:C:O2'	35:BA:2262:U:H5'	2.12	0.48
35:BA:2277:G:H2'	35:BA:2278:A:H5'	1.95	0.48
3:AC:6:HIS:HB2	14:AN:49:HIS:HD2	1.78	0.48
24:AY:143:PHE:HA	24:AY:146:ARG:HD2	1.95	0.48
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.12	0.48
24:AY:249:VAL:CG2	24:AY:250:ARG:H	2.22	0.48
35:BA:2138:C:H1'	35:BA:2154:G:H22	1.76	0.48
1:CA:629:G:H2'	1:CA:630:G:C8	2.47	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DQ:79:LEU:HD23	49:DQ:80:GLU:H	1.78	0.48
1:AA:627:G:O2'	1:AA:628:G:H5'	2.13	0.48
35:DA:2617:C:H2'	35:DA:2618:G:H5'	1.95	0.48
8:CH:30:ARG:CB	8:CH:30:ARG:NH1	2.76	0.48
35:BA:1316:U:H2'	35:BA:1317:A:H8	1.77	0.48
10:CJ:3:LYS:CB	10:CJ:77:PRO:HD3	2.43	0.48
35:BA:858:U:O2	35:BA:2268:A:H2'	2.12	0.48
1:CA:376:G:H2'	1:CA:377:G:H8	1.77	0.48
53:BU:106:PHE:O	53:BU:110:VAL:HG23	2.12	0.48
56:BX:26:TYR:CE2	56:BX:89:ILE:HB	2.48	0.48
12:AL:81:SER:O	12:AL:106:ASP:HB2	2.12	0.48
35:BA:910:A:C6	35:BA:911:A:C6	3.00	0.48
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.47	0.48
35:DA:1999:C:H5''	35:DA:2723:C:O2'	2.13	0.48
35:DA:631:A:H2'	35:DA:632:A:O4'	2.12	0.48
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.28	0.48
28:D3:52:HIS:CD2	28:D3:52:HIS:H	2.30	0.48
3:AC:57:ILE:HA	3:AC:65:ALA:HB3	1.95	0.48
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.48	0.48
3:AC:33:LEU:HD11	14:AN:53:LEU:HD23	1.95	0.48
35:BA:654(R):C:H2'	35:BA:654(S):G:C8	2.48	0.48
2:CB:16:HIS:HD2	2:CB:210:SER:HA	1.78	0.48
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.13	0.48
16:CP:65:GLN:HG2	16:CP:65:GLN:O	2.13	0.48
14:AN:36:PHE:HD1	14:AN:37:PHE:CD2	2.31	0.48
35:BA:654(C):G:H2'	35:BA:654(D):G:C8	2.48	0.48
47:DO:1:MET:HB2	47:DO:32:TYR:HB3	1.93	0.48
35:DA:2528:U:H2'	35:DA:2530:A:O5'	2.13	0.48
35:DA:977:G:O2'	35:DA:978:G:H5'	2.12	0.48
17:CQ:29:HIS:N	17:CQ:33:GLY:O	2.42	0.48
17:CQ:34:LYS:O	17:CQ:36:ILE:HG23	2.13	0.48
2:CB:9:GLU:HG3	2:CB:10:LEU:N	2.28	0.48
35:DA:610:G:H2'	35:DA:611:C:C6	2.48	0.48
17:AQ:11:VAL:O	17:AQ:12:SER:HB2	2.13	0.48
49:DQ:26:TYR:O	49:DQ:26:TYR:HD1	1.96	0.48
13:AM:7:VAL:HG12	13:AM:7:VAL:O	2.13	0.48
31:B6:51:GLU:O	31:B6:52:VAL:HB	2.13	0.48
30:D5:46:CYS:SG	30:D5:47:PRO:CD	3.01	0.48
30:D5:55:ARG:C	30:D5:56:LYS:HD2	2.32	0.48
35:BA:548:A:H2'	35:BA:549:G:O4'	2.12	0.48
35:BA:549:G:H2'	35:BA:551:G:C5'	2.22	0.48
35:BA:481:G:H1'	35:BA:506:G:H21	1.78	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:542:G:H2'	1:CA:543:C:C6	2.44	0.48
38:BD:111:LEU:HD13	38:BD:112:GLN:N	2.28	0.48
1:AA:9:G:H5''	5:AE:122:GLU:OE2	2.12	0.48
58:DZ:47:VAL:CG1	58:DZ:57:ILE:HD12	2.43	0.48
1:CA:979:C:C2'	1:CA:980:C:H5''	2.42	0.48
35:BA:535:C:O3'	53:BU:53:ARG:NH1	2.46	0.48
8:CH:109:ILE:CG1	8:CH:110:ALA:N	2.76	0.48
9:AI:43:ALA:C	9:AI:45:ALA:N	2.66	0.48
37:DC:59:ARG:CD	37:DC:59:ARG:N	2.76	0.48
2:CB:80:ILE:HD11	2:CB:211:ILE:CG2	2.42	0.48
48:BP:49:ARG:O	48:BP:49:ARG:HG2	2.07	0.48
52:DT:129:ARG:NH1	52:DT:131:ALA:HB3	2.27	0.48
22:CW:57:G:H2'	22:CW:58:A:C5'	2.43	0.48
34:D9:14:CYS:HA	34:D9:26:ILE:O	2.14	0.48
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.28	0.48
54:BV:81:TYR:C	54:BV:82:ARG:HG3	2.33	0.48
28:B3:45:GLY:HA2	28:B3:48:GLU:CD	2.32	0.48
13:AM:115:LYS:O	13:AM:117:VAL:HG23	2.13	0.48
45:BK:23:VAL:HA	45:BK:26:ALA:CB	2.43	0.48
50:DR:34:ILE:HG22	50:DR:35:THR:N	2.28	0.48
1:CA:630:G:C2'	1:CA:631:G:H5''	2.42	0.48
35:DA:2262:U:C2'	35:DA:2263:C:C5'	2.87	0.48
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.77	0.48
42:BH:25:LYS:HA	42:BH:34:GLU:HA	1.94	0.48
3:AC:152:ILE:HG12	3:AC:167:TRP:HD1	1.78	0.48
15:AO:43:LEU:C	15:AO:45:VAL:N	2.64	0.48
8:AH:97:VAL:CG1	8:AH:98:LYS:N	2.75	0.48
35:BA:1316:U:O2'	35:BA:1317:A:H5'	2.13	0.48
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.12	0.48
53:DU:79:PHE:CZ	53:DU:83:LEU:HD22	2.48	0.48
1:AA:79:G:O2'	1:AA:80:G:O5'	2.30	0.48
1:AA:833:U:H2'	1:AA:834:C:C5	2.48	0.48
16:CP:5:ARG:HE	16:CP:22:THR:HG23	1.78	0.48
56:BX:51:VAL:HA	56:BX:82:GLN:O	2.13	0.48
24:CY:349:LEU:C	24:CY:351:TRP:H	2.17	0.48
1:CA:1288:A:H2'	1:CA:1289:A:H8	1.78	0.48
56:BX:88:LYS:CE	56:BX:93:GLU:HG3	2.43	0.48
58:BZ:24:LEU:HD11	58:BZ:86:VAL:HG22	1.94	0.48
45:DK:131:ALA:C	45:DK:133:SER:N	2.66	0.48
28:B3:54:VAL:HG22	28:B3:55:ARG:N	2.28	0.48
1:CA:40:C:H2'	1:CA:41:G:C8	2.46	0.48
35:DA:1241:A:O2'	35:DA:1242:A:H5'	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2000:G:O2'	35:BA:2001:A:H5'	2.14	0.48
4:CD:64:LEU:HD11	4:CD:97:LEU:CD1	2.43	0.48
1:AA:271:C:O2'	1:AA:272:C:H5'	2.13	0.48
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.77	0.48
3:AC:76:VAL:HG21	3:AC:103:VAL:HG11	1.95	0.48
1:CA:148:G:H2'	1:CA:149:A:C8	2.47	0.48
46:DN:51:PHE:CZ	46:DN:119:ARG:HD2	2.48	0.48
3:AC:127:ARG:HG2	3:AC:127:ARG:HH11	1.77	0.48
24:AY:73:LEU:C	24:AY:73:LEU:HD13	2.33	0.48
11:CK:126:ARG:NH1	11:CK:126:ARG:HB3	2.27	0.48
25:D0:29:GLN:O	25:D0:67:VAL:HG23	2.13	0.48
35:BA:38:A:H2'	35:BA:39:C:C6	2.47	0.48
30:B5:42:PRO:HB2	30:B5:43:HIS:CD2	2.48	0.48
35:DA:1329:U:H5''	35:DA:1330:C:C5	2.48	0.48
1:CA:537:G:OP1	12:CL:113:ARG:NH2	2.46	0.48
3:CC:81:GLY:O	3:CC:85:ARG:HB2	2.13	0.48
1:AA:42:G:H2'	1:AA:43:C:C6	2.47	0.48
37:BC:18:LYS:O	37:BC:19:VAL:HB	2.13	0.48
35:BA:2409:G:H2'	35:BA:2410:G:O4'	2.12	0.48
26:B1:32:LYS:C	26:B1:33:LYS:HG2	2.33	0.48
40:DF:121:GLY:O	40:DF:123:LEU:N	2.47	0.48
1:CA:414:A:H2'	1:CA:415:A:O4'	2.13	0.48
58:DZ:144:LEU:HD12	58:DZ:149:SER:HA	1.93	0.48
31:D6:28:ARG:CB	31:D6:28:ARG:HH11	2.02	0.48
48:BP:23:PRO:O	48:BP:29:LYS:O	2.31	0.48
16:AP:36:ILE:HG13	16:AP:37:GLY:N	2.28	0.48
35:BA:612:C:C3'	35:BA:613:G:H5''	2.43	0.48
41:BG:106:LEU:HB3	41:BG:107:LEU:HD23	1.95	0.48
41:BG:138:GLN:HG2	41:BG:139:LEU:N	2.27	0.48
41:BG:64:THR:OG1	41:BG:94:LEU:HD11	2.14	0.48
4:CD:30:LYS:HA	4:CD:35:ARG:CG	2.43	0.48
35:DA:535:C:O3'	53:DU:53:ARG:NH1	2.46	0.48
54:BV:39:LEU:O	54:BV:40:LEU:CB	2.61	0.48
35:BA:1826:G:H2'	35:BA:1827:C:H6	1.77	0.48
9:CI:78:LYS:O	9:CI:78:LYS:HG2	2.13	0.48
41:DG:101:ILE:C	41:DG:101:ILE:HD13	2.34	0.48
24:CY:46:ARG:CD	45:DK:21:PRO:HB3	2.43	0.48
53:BU:92:ARG:HH21	53:BU:94:ASN:ND2	2.12	0.48
1:CA:1434:A:N7	1:CA:1435:G:C5	2.81	0.48
36:BB:95:C:H2'	36:BB:96:U:O4'	2.12	0.48
12:AL:39:VAL:O	12:AL:56:ALA:HA	2.12	0.48
58:BZ:57:ILE:HB	58:BZ:69:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:92:SER:OG	58:BZ:94:GLU:HG2	2.13	0.48
2:AB:31:TYR:HD1	2:AB:202:PRO:HB3	1.78	0.48
51:BS:101:LEU:O	51:BS:102:ALA:O	2.31	0.48
35:BA:1407:C:N3	35:BA:1596:A:C2	2.81	0.48
20:CT:49:ALA:HB2	20:CT:99:LEU:CD1	2.43	0.48
38:BD:24:ILE:HD12	38:BD:84:TYR:HB2	1.94	0.48
9:CI:4:TYR:CD1	9:CI:4:TYR:N	2.81	0.48
52:DT:129:ARG:HG3	52:DT:129:ARG:O	2.13	0.48
39:DE:4:ILE:HG12	39:DE:28:ALA:HB1	1.96	0.48
10:CJ:88:LEU:HG	10:CJ:90:LEU:HD11	1.95	0.48
1:CA:401:C:H2'	1:CA:402:G:H8	1.78	0.48
35:DA:623:G:H2'	35:DA:624:C:C6	2.49	0.48
1:CA:737:A:H2'	1:CA:738:C:H6	1.75	0.48
7:CG:20:ASP:HB3	7:CG:23:VAL:CG2	2.43	0.48
43:BI:5:LEU:HA	43:BI:36:ALA:HB1	1.95	0.48
58:DZ:39:VAL:HG21	58:DZ:44:PHE:CD2	2.45	0.48
51:BS:57:LYS:HG2	51:BS:58:LEU:N	2.24	0.48
46:DN:23:LEU:HD13	46:DN:98:VAL:HG12	1.95	0.48
4:AD:25:ARG:C	4:AD:27:TYR:H	2.17	0.48
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.43	0.48
1:AA:16:A:C2'	1:AA:17:U:H5'	2.43	0.48
28:D3:45:GLY:HA2	28:D3:48:GLU:CD	2.34	0.48
24:AY:306:GLU:HG3	24:AY:307:TRP:H	1.78	0.48
39:DE:134:ILE:CG1	39:DE:134:ILE:O	2.55	0.48
1:AA:33:A:H2'	1:AA:34:C:H6	1.78	0.48
4:CD:83:SER:HA	4:CD:89:THR:HG23	1.94	0.48
3:AC:16:ARG:HH22	3:AC:183:ASP:HA	1.77	0.48
24:AY:118:LEU:HA	24:AY:209:GLU:O	2.12	0.48
8:CH:69:ARG:HD3	8:CH:75:ARG:O	2.13	0.48
1:CA:77:G:C2'	1:CA:78:G:H5'	2.43	0.48
35:BA:654(E):G:O2'	35:BA:654(F):C:H5'	2.14	0.48
50:BR:42:LYS:O	50:BR:45:ARG:HD2	2.13	0.48
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.77	0.48
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.60	0.48
39:DE:37:ARG:HA	39:DE:42:ASP:OD2	2.13	0.48
1:CA:166:G:H2'	1:CA:167:G:C8	2.47	0.48
35:BA:2734:A:H3'	35:BA:2735:G:H8	1.78	0.48
1:CA:245:C:C2'	1:CA:246:A:H5'	2.42	0.48
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.78	0.48
48:DP:13:ASN:ND2	48:DP:13:ASN:H	2.11	0.48
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.95	0.48
55:DW:9:TYR:HD2	55:DW:9:TYR:N	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:34:ASP:C	11:CK:36:ASP:H	2.15	0.48
35:DA:740:U:H2'	35:DA:741:G:H8	1.77	0.48
35:DA:2639:A:C2'	35:DA:2640:G:H5'	2.43	0.48
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.52	0.48
35:DA:154:G:C6	35:DA:154(A):C:N4	2.81	0.48
17:CQ:9:VAL:HG12	17:CQ:10:VAL:N	2.28	0.48
49:BQ:25:ASP:OD1	58:BZ:78:LYS:HD3	2.13	0.48
35:DA:1351:C:H2'	35:DA:1352:U:C6	2.48	0.48
1:CA:1463:C:H2'	1:CA:1464:G:O4'	2.13	0.48
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.95	0.48
35:DA:191:A:O2'	35:DA:192:C:H5'	2.14	0.48
37:DC:18:LYS:O	37:DC:19:VAL:HB	2.13	0.48
35:DA:975:C:H2'	35:DA:975:C:O2	2.13	0.48
24:AY:346:TRP:HA	24:AY:346:TRP:CE3	2.49	0.48
57:BY:77:PRO:O	57:BY:78:ALA:CB	2.61	0.48
1:AA:355:C:H2'	1:AA:356:A:C8	2.28	0.48
1:AA:57:G:O6	1:AA:356:A:C2	2.67	0.48
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.76	0.48
58:BZ:166:SER:N	58:BZ:167:PRO:HA	2.18	0.48
24:AY:59:VAL:HG12	24:AY:59:VAL:O	2.14	0.48
35:DA:2308:G:N2	41:DG:79:ASN:ND2	2.61	0.48
24:CY:19:ILE:N	24:CY:20:PRO:HD2	2.28	0.48
24:CY:22:LYS:CD	24:CY:25:ARG:HD2	2.43	0.48
41:BG:61:ALA:HB2	41:BG:67:LYS:HA	1.96	0.48
40:BF:53:THR:C	40:BF:55:GLY:N	2.66	0.48
52:DT:27:THR:HG23	52:DT:28:VAL:N	2.28	0.48
52:DT:32:TYR:HD2	52:DT:81:PRO:O	1.96	0.48
35:BA:1658:C:H2'	35:BA:1659:U:H6	1.78	0.48
1:CA:509:A:H5'	4:CD:54:TYR:HD2	1.77	0.48
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.40	0.48
48:DP:134:ALA:O	48:DP:136:GLU:N	2.45	0.48
35:DA:271(L):U:H4'	35:DA:271(M):G:C5	2.48	0.48
56:DX:80:ILE:HG13	56:DX:80:ILE:O	2.12	0.48
9:CI:85:LEU:HD12	9:CI:86:VAL:N	2.29	0.48
1:CA:1125:U:H3	10:CJ:5:ARG:NH1	2.12	0.48
35:DA:494:G:O2'	55:DW:5:ALA:O	2.27	0.48
46:DN:134:ARG:HG3	46:DN:134:ARG:O	2.13	0.48
46:DN:14:VAL:HG12	46:DN:15:LEU:N	2.28	0.48
52:BT:106:SER:O	52:BT:107:ASP:CB	2.60	0.48
52:BT:41:ARG:HB3	52:BT:41:ARG:CZ	2.43	0.48
38:BD:28:GLU:HB3	38:BD:29:PRO:CD	2.26	0.48
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	1.94	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BV:18:LEU:CD1	54:BV:18:LEU:N	2.76	0.48
45:BK:131:ALA:C	45:BK:133:SER:N	2.66	0.48
35:BA:2790:A:O2'	35:BA:2791:C:H5'	2.13	0.48
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.96	0.48
26:B1:3:LYS:HB3	26:B1:61:ARG:HH12	1.77	0.48
35:DA:2183:C:H2'	35:DA:2184:G:H8	1.78	0.48
3:AC:83:ARG:HA	3:AC:86:VAL:HG22	1.95	0.48
3:AC:87:LEU:C	3:AC:89:GLU:N	2.66	0.48
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.28	0.48
58:DZ:42:VAL:CG2	58:DZ:46:LYS:HE3	2.39	0.48
7:CG:44:TYR:HA	7:CG:47:CYS:SG	2.53	0.48
3:AC:113:ALA:O	3:AC:115:LEU:N	2.46	0.48
24:CY:109:PHE:HB2	24:CY:110:PRO:CD	2.39	0.48
35:BA:1437:C:H6	35:BA:1437:C:C5'	2.27	0.48
27:D2:44:LEU:O	27:D2:45:SER:CB	2.62	0.48
2:AB:112:VAL:HG11	2:AB:153:ARG:HA	1.95	0.48
3:AC:9:GLY:HA3	14:AN:49:HIS:HA	1.94	0.48
17:CQ:19:VAL:HG23	17:CQ:44:ALA:HB3	1.96	0.48
40:DF:29:ASN:ND2	40:DF:32:LEU:HB2	2.27	0.48
35:DA:991:C:H2'	35:DA:992:C:H6	1.77	0.48
8:CH:35:ILE:O	8:CH:39:LEU:CD2	2.61	0.48
1:CA:1112:C:C4	3:CC:178:LEU:HD23	2.48	0.48
1:CA:102:G:H2'	1:CA:103:C:H6	1.78	0.48
35:BA:2121:G:C2'	35:BA:2122:U:H5'	2.42	0.48
1:AA:1112:C:N3	3:AC:178:LEU:HD23	2.27	0.48
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.96	0.48
2:AB:217:ARG:O	2:AB:221:LEU:HD23	2.13	0.48
6:AF:98:LEU:HD13	6:AF:101:ALA:CB	2.44	0.48
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.95	0.48
35:BA:2364:C:O2'	35:BA:2365:G:H5'	2.12	0.48
1:AA:489:C:H2'	1:AA:490:G:C8	2.45	0.48
24:CY:132:TRP:HA	24:CY:135:MET:HE2	1.95	0.48
35:DA:2734:A:H3'	35:DA:2735:G:H8	1.78	0.48
2:AB:140:HIS:HA	2:AB:143:GLU:HG3	1.96	0.48
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.95	0.48
35:DA:1528:A:H2'	35:DA:1528:A:N3	2.28	0.48
42:BH:47:GLU:HB2	42:BH:51:ARG:NH2	2.28	0.48
35:DA:1794:U:H2'	35:DA:1795:C:H6	1.78	0.48
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.48	0.48
35:BA:962:G:C2'	35:BA:963:U:H5'	2.43	0.48
3:CC:126:ARG:HG2	3:CC:126:ARG:HH11	1.78	0.48
5:CE:28:PHE:H	5:CE:28:PHE:HD1	1.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:88:A:H2	1:CA:89:C:H5	1.62	0.48
35:BA:30:G:O2'	35:BA:31:C:H5'	2.13	0.48
37:BC:170:ALA:O	37:BC:172:HIS:N	2.47	0.48
1:CA:1067:A:H1'	1:CA:1068:G:C8	2.48	0.48
37:DC:128:GLY:O	37:DC:130:ILE:N	2.45	0.48
1:AA:158:G:O2'	1:AA:159:G:H5'	2.14	0.48
1:AA:1186:G:N2	1:AA:1187:G:H1'	2.29	0.48
51:DS:22:GLY:O	51:DS:23:ARG:O	2.32	0.48
1:CA:42:G:H2'	1:CA:43:C:C6	2.48	0.48
56:DX:32:PRO:HA	56:DX:77:LYS:HB2	1.95	0.48
35:DA:1642:G:O2'	35:DA:1643:G:H5'	2.13	0.48
1:CA:392:G:H2'	1:CA:393:A:H8	1.78	0.48
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.78	0.48
50:BR:93:GLY:O	50:BR:117:VAL:HG21	2.14	0.48
35:DA:2320:A:N3	35:DA:2320:A:H2'	2.28	0.48
41:BG:30:GLU:O	41:BG:30:GLU:HG2	2.13	0.48
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.33	0.48
5:CE:20:GLN:O	5:CE:23:GLY:O	2.31	0.48
2:AB:213:LEU:C	2:AB:213:LEU:HD23	2.34	0.48
8:AH:38:ILE:HD11	8:AH:118:VAL:O	2.13	0.48
35:BA:2183:C:H2'	35:BA:2184:G:H8	1.78	0.48
58:BZ:125:LEU:HD12	58:BZ:126:VAL:N	2.29	0.48
49:DQ:141:GLN:NE2	58:DZ:71:VAL:O	2.45	0.48
35:DA:1885:A:H3'	35:DA:1886:C:C6	2.48	0.48
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.61	0.48
40:BF:3:GLU:O	40:BF:19:GLU:CB	2.61	0.48
40:DF:3:GLU:CB	40:DF:24:LEU:HD23	2.44	0.48
52:DT:27:THR:OG1	52:DT:28:VAL:N	2.47	0.48
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.48	0.48
35:DA:2329:G:H2'	35:DA:2330:G:C8	2.48	0.48
18:CR:21:LYS:NZ	18:CR:55:ARG:N	2.62	0.48
37:BC:72:VAL:HG12	37:BC:74:VAL:HG23	1.95	0.48
54:BV:52:VAL:HG13	54:BV:52:VAL:O	2.11	0.48
50:BR:9:LYS:O	50:BR:10:LEU:CG	2.60	0.48
35:BA:1171:G:C5'	35:BA:1173:G:H5''	2.44	0.48
31:D6:37:ARG:HH11	31:D6:37:ARG:CG	2.26	0.48
36:BB:95:C:C2	36:BB:96:U:C6	3.01	0.48
57:DY:28:LYS:CA	57:DY:39:VAL:H	2.25	0.48
9:AI:79:LEU:HD13	9:AI:79:LEU:C	2.34	0.48
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.14	0.48
42:DH:19:VAL:HG21	42:DH:44:VAL:CG1	2.42	0.48
7:AG:50:ILE:O	7:AG:54:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:58:ILE:HG22	2:CB:222:ILE:HG12	1.95	0.48
2:AB:80:ILE:HD11	2:AB:211:ILE:CG2	2.43	0.48
40:DF:64:ILE:HG12	40:DF:65:TRP:NE1	2.29	0.48
17:CQ:52:LYS:HD2	17:CQ:55:ASP:OD2	2.13	0.48
58:DZ:59:LEU:O	58:DZ:61:LEU:HD22	2.13	0.48
52:BT:129:ARG:O	52:BT:129:ARG:HG3	2.12	0.48
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.48	0.48
43:BI:76:THR:HG22	43:BI:141:LYS:HB2	1.95	0.48
1:CA:115:G:O2'	1:CA:116:A:OP2	2.27	0.48
49:DQ:51:ARG:HG2	49:DQ:51:ARG:NH1	2.28	0.48
27:B2:50:ILE:O	27:B2:52:ASP:N	2.46	0.48
22:AW:41:C:C4	22:AW:42:C:N4	2.81	0.48
11:AK:88:GLY:O	11:AK:89:ALA:C	2.52	0.48
45:DK:23:VAL:HA	45:DK:26:ALA:CB	2.43	0.48
7:AG:78:ARG:HH12	7:AG:154:TYR:HB3	1.79	0.48
35:DA:910:A:C6	35:DA:911:A:C6	3.00	0.48
12:CL:70:ILE:HG12	12:CL:100:ILE:CD1	2.44	0.48
2:CB:102:LEU:HB2	2:CB:176:GLU:HB3	1.95	0.48
24:AY:258:ILE:C	24:AY:258:ILE:HD12	2.34	0.48
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.48	0.48
8:AH:44:PHE:HA	8:AH:79:VAL:HG11	1.96	0.48
36:BB:40:U:H3'	36:BB:41:U:C5'	2.43	0.48
22:CV:16:U:O5'	22:CV:16:U:H6	1.96	0.48
1:CA:140:A:H2'	1:CA:141:A:H8	1.78	0.48
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.34	0.48
48:DP:17:LYS:O	48:DP:19:VAL:N	2.46	0.48
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.78	0.48
50:DR:42:LYS:O	50:DR:45:ARG:HD2	2.13	0.48
35:DA:2223:G:O2'	35:DA:2224:G:H5'	2.13	0.48
12:AL:119:LYS:C	12:AL:120:TYR:CD1	2.86	0.48
1:CA:458:C:H2'	1:CA:460:G:H8	1.79	0.48
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.48	0.48
35:BA:1794:U:H2'	35:BA:1795:C:H6	1.77	0.48
53:DU:103:PRO:HD2	53:DU:104:GLN:NE2	2.28	0.48
35:DA:2178:C:H5'	37:DC:46:LYS:HB2	1.96	0.48
2:CB:140:HIS:HA	2:CB:143:GLU:HG3	1.95	0.48
35:BA:2639:A:C2'	35:BA:2640:G:H5'	2.44	0.48
1:CA:811:C:H4'	1:CA:900:A:N6	2.28	0.48
37:BC:75:LEU:HD23	37:BC:75:LEU:O	2.13	0.48
35:BA:154(A):C:O4'	35:BA:154(A):C:O2	2.29	0.48
5:CE:100:VAL:HG13	5:CE:118:ILE:CG2	2.44	0.48
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:170:VAL:HG22	4:AD:171:GLY:H	1.78	0.48
1:AA:580:U:H2'	1:AA:581:G:C8	2.49	0.48
24:AY:159:GLY:H	24:AY:164:ILE:HA	1.76	0.48
4:AD:100:ARG:NH1	4:AD:137:SER:HA	2.28	0.48
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.78	0.48
35:BA:608:A:H2'	35:BA:609:A:C8	2.47	0.48
55:BW:26:GLY:HA2	55:BW:71:VAL:O	2.13	0.48
51:DS:51:ALA:O	51:DS:69:VAL:HG22	2.13	0.48
57:BY:96:ILE:CG2	57:BY:97:ARG:N	2.76	0.48
52:BT:28:VAL:HG11	52:BT:46:GLU:CG	2.34	0.48
1:AA:360:A:H2'	1:AA:361:G:H8	1.78	0.48
33:B8:53:PRO:HA	33:B8:56:GLU:CB	2.41	0.48
35:BA:598:G:H5''	48:BP:15:ARG:CD	2.24	0.48
24:AY:345:ILE:O	24:AY:349:LEU:HG	2.12	0.48
33:D8:63:PRO:O	33:D8:64:TYR:O	2.31	0.48
41:DG:105:LYS:HE3	41:DG:143:GLU:OE1	2.14	0.48
41:DG:155:MET:O	41:DG:155:MET:HG3	2.14	0.48
35:BA:2313:C:H4'	41:BG:91:ARG:HG3	1.95	0.48
1:CA:430:A:O2'	1:CA:431:A:H5'	2.14	0.48
24:AY:26:LEU:HD22	24:AY:48:VAL:HG21	1.94	0.48
42:BH:92:ILE:C	42:BH:94:TYR:H	2.17	0.48
54:BV:34:GLU:O	54:BV:36:PRO:CD	2.62	0.48
35:BA:1827:C:OP2	38:BD:222:ARG:NH1	2.47	0.48
42:DH:94:TYR:CD2	42:DH:107:VAL:HB	2.49	0.48
22:AW:66:U:H2'	22:AW:67:C:C4	2.48	0.48
24:AY:283:LEU:O	24:AY:287:GLU:HB2	2.13	0.48
53:BU:92:ARG:CB	54:BV:11:GLN:NE2	2.77	0.48
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.17	0.48
37:BC:59:ARG:CD	37:BC:59:ARG:N	2.77	0.48
37:DC:51:PRO:O	37:DC:52:ARG:HB2	2.14	0.48
35:DA:1022:G:O2'	35:DA:1023:U:OP2	2.26	0.48
32:B7:47:ARG:C	32:B7:48:LYS:HD3	2.33	0.48
2:CB:31:TYR:HD1	2:CB:202:PRO:HB3	1.78	0.48
33:B8:16:ILE:O	33:B8:16:ILE:HG23	2.12	0.48
38:BD:31:LYS:HG3	38:BD:33:LEU:CG	2.43	0.48
38:BD:82:ILE:C	38:BD:82:ILE:HD13	2.34	0.48
47:BO:104:ARG:HE	52:BT:33:LYS:HE3	1.78	0.48
27:D2:35:LEU:C	27:D2:37:PHE:H	2.17	0.48
35:DA:2894:G:H2'	35:DA:2894:G:N3	2.29	0.48
1:CA:1458:G:OP1	20:CT:35:THR:OG1	2.25	0.48
24:CY:190:VAL:CB	24:CY:315:VAL:HG12	2.41	0.48
35:BA:1106:G:H2'	35:BA:1107:G:C8	2.48	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DY:17:SER:OG	57:DY:18:GLY:N	2.46	0.48
4:CD:150:GLU:N	4:CD:150:GLU:OE1	2.46	0.48
14:CN:12:ARG:HB3	14:CN:14:PRO:HD2	1.95	0.48
7:AG:136:LYS:O	7:AG:138:LYS:N	2.45	0.48
50:DR:82:GLU:H	50:DR:85:PRO:CD	2.27	0.48
45:DK:125:ARG:HG2	45:DK:125:ARG:NH1	2.29	0.48
47:DO:87:ILE:HG23	47:DO:91:LEU:HA	1.93	0.48
28:D3:44:ARG:O	28:D3:48:GLU:N	2.36	0.48
2:AB:104:ASN:ND2	2:AB:107:THR:HB	2.28	0.48
7:AG:76:ARG:HD3	7:AG:89:MET:CE	2.43	0.48
55:DW:17:VAL:O	55:DW:18:ARG:C	2.52	0.48
42:BH:33:LEU:HD11	42:BH:136:ILE:O	2.14	0.48
47:DO:105:GLU:N	47:DO:105:GLU:OE1	2.46	0.48
35:BA:691:C:O2'	35:BA:692:C:H5'	2.13	0.48
40:BF:29:ASN:ND2	40:BF:32:LEU:HB2	2.27	0.48
3:AC:101:LEU:C	3:AC:101:LEU:HD23	2.34	0.48
3:CC:180:ALA:O	3:CC:181:ASN:C	2.52	0.48
43:BI:29:TYR:O	43:BI:32:PRO:HD2	2.13	0.48
22:CV:76:A:O3'	24:CY:239:GLY:HA3	2.14	0.48
26:B1:45:ASN:HA	35:BA:2230:G:H1'	1.95	0.48
1:CA:925:G:H4'	1:CA:1502:A:N1	2.28	0.48
25:B0:84:LEU:H	25:B0:84:LEU:HD12	1.78	0.48
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.13	0.48
35:DA:2537:U:H2'	35:DA:2538:C:H6	1.76	0.48
39:BE:9:VAL:CG2	39:BE:25:VAL:HB	2.43	0.48
4:CD:64:LEU:HD11	4:CD:97:LEU:HD13	1.96	0.48
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.49	0.48
24:CY:346:TRP:HA	24:CY:346:TRP:HE3	1.77	0.48
1:CA:1396:A:H4'	1:CA:1398:A:O4'	2.14	0.48
1:CA:148:G:O2'	1:CA:149:A:H5'	2.14	0.48
50:BR:53:HIS:O	50:BR:56:LYS:HB3	2.14	0.48
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.94	0.48
1:AA:708:C:H2'	1:AA:709:G:H8	1.78	0.48
46:DN:26:LEU:HG	46:DN:30:ILE:CD1	2.44	0.48
25:B0:25:ARG:HD3	25:B0:29:GLN:HE22	1.77	0.48
49:BQ:114:ALA:O	49:BQ:116:GLU:N	2.44	0.48
36:BB:89:G:H2'	36:BB:90:A:C8	2.49	0.48
1:AA:505:G:C6	1:AA:535:A:C2	3.02	0.48
55:BW:71:VAL:HA	55:BW:107:LEU:HD12	1.95	0.48
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.49	0.48
30:D5:30:LEU:HD23	30:D5:41:PRO:HA	1.94	0.48
35:BA:765:G:H2'	35:BA:766:C:C6	2.49	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AO:33:THR:HG21	15:AO:85:LEU:HD22	1.95	0.48
35:BA:309:G:N3	35:BA:329:G:O2'	2.47	0.48
44:BJ:27:UNK:O	44:BJ:83:UNK:N	2.47	0.48
23:CX:18:A:H2'	23:CX:18:A:N3	2.29	0.48
1:CA:593:G:O2'	1:CA:594:G:H5'	2.14	0.48
51:DS:12:PHE:H	51:DS:12:PHE:HD1	1.62	0.48
58:DZ:3:TYR:N	58:DZ:3:TYR:CD1	2.80	0.48
1:CA:233:C:H2'	1:CA:234:C:H6	1.78	0.48
35:BA:271(S):G:C3'	35:BA:271(T):C:H5''	2.42	0.48
31:B6:23:THR:HG21	35:BA:2419:U:C4'	2.41	0.48
48:BP:24:GLY:N	48:BP:33:ARG:NH1	2.61	0.48
1:AA:360:A:O2'	1:AA:361:G:H5'	2.14	0.48
35:DA:813:U:C5	48:DP:27:HIS:HD2	2.32	0.48
35:BA:598:G:C5'	48:BP:15:ARG:HD2	2.24	0.48
40:DF:24:LEU:O	40:DF:26:ALA:N	2.47	0.48
1:CA:543:C:C2	1:CA:544:G:C8	3.01	0.48
35:BA:2572:A:C8	39:BE:144:ARG:HD2	2.48	0.48
54:DV:5:VAL:HG22	54:DV:6:LYS:N	2.28	0.48
54:BV:55:ALA:O	54:BV:56:SER:HB3	2.13	0.48
50:BR:17:ARG:HH11	50:BR:17:ARG:HG2	1.79	0.48
42:DH:89:ILE:HG12	42:DH:129:THR:HA	1.95	0.48
24:CY:24:THR:HG22	24:CY:27:LYS:HE3	1.96	0.48
31:B6:19:ARG:HG3	35:BA:2400:G:H4'	1.95	0.48
37:DC:74:VAL:HG12	37:DC:76:ALA:N	2.29	0.48
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.43	0.48
53:BU:91:ASP:OD2	53:BU:96:ALA:CB	2.61	0.48
35:BA:1777:U:O2'	35:BA:1778:U:H5'	2.14	0.48
8:CH:109:ILE:CG1	8:CH:110:ALA:H	2.23	0.48
51:BS:14:VAL:HG22	51:BS:91:PRO:HD3	1.96	0.48
4:AD:96:LEU:CD1	4:AD:96:LEU:N	2.76	0.48
46:BN:31:ALA:O	46:BN:34:LEU:N	2.47	0.48
40:BF:65:TRP:CZ3	40:BF:73:ALA:O	2.67	0.48
12:CL:87:GLY:H	12:CL:99:HIS:H	1.62	0.48
35:DA:2732:G:O2'	35:DA:2733:A:H5'	2.13	0.48
38:BD:82:ILE:HG23	38:BD:82:ILE:O	2.13	0.48
9:CI:4:TYR:HB2	9:CI:19:LEU:CB	2.34	0.48
51:DS:80:LEU:HD12	51:DS:80:LEU:N	2.28	0.48
22:CW:51:U:H3	22:CW:64:A:H2	1.61	0.48
1:AA:372:C:C4'	1:AA:373:A:OP1	2.53	0.48
58:DZ:146:ILE:HA	58:DZ:174:VAL:CG1	2.44	0.48
35:DA:1685:C:H2'	35:DA:1686:C:C5'	2.42	0.48
35:BA:1685:C:C2'	35:BA:1686:C:H5''	2.43	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:44:ALA:HB3	20:CT:91:LEU:HD12	1.96	0.48
35:BA:2892:A:H2'	35:BA:2893:G:H4'	1.96	0.48
6:CF:34:GLY:O	6:CF:67:MET:HB2	2.14	0.48
22:AV:61:C:H2'	22:AV:62:C:C6	2.38	0.48
50:DR:77:ARG:O	50:DR:79:LEU:N	2.47	0.48
55:DW:33:ARG:O	55:DW:37:ARG:HB2	2.14	0.48
1:CA:624:C:H4'	16:CP:10:GLY:CA	2.43	0.48
35:DA:1360:A:H5'	35:DA:1361:G:OP2	2.13	0.48
35:BA:321:G:N3	40:BF:165:ARG:NH1	2.61	0.48
1:CA:797:C:O2'	1:CA:798:G:H5'	2.14	0.48
10:CJ:53:PRO:HG2	10:CJ:54:PHE:H	1.78	0.48
42:DH:138:LYS:O	42:DH:141:VAL:N	2.38	0.48
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.28	0.48
48:DP:17:LYS:HB3	48:DP:19:VAL:HG22	1.95	0.48
27:B2:20:GLU:O	27:B2:23:LYS:HB2	2.14	0.48
3:CC:57:ILE:HA	3:CC:65:ALA:HB3	1.95	0.48
22:CV:52:G:C6	22:CV:63:G:C6	3.02	0.48
37:DC:65:PRO:HG2	37:DC:189:ILE:CA	2.44	0.48
50:BR:39:PRO:C	50:BR:41:ALA:N	2.65	0.48
50:BR:96:ARG:HH22	50:BR:118:GLU:H	1.61	0.48
35:BA:1999:C:H5''	35:BA:2723:C:O2'	2.14	0.48
35:BA:470:A:H2'	35:BA:471:A:O4'	2.14	0.48
35:BA:632:A:H2'	35:BA:633:A:C8	2.47	0.48
45:BK:13:PRO:HG2	45:BK:16:LYS:O	2.13	0.48
38:DD:158:ALA:HB3	38:DD:161:THR:CG2	2.44	0.48
1:AA:166:G:H2'	1:AA:167:G:C8	2.47	0.48
3:CC:33:LEU:HD11	14:CN:53:LEU:HD23	1.96	0.48
4:AD:203:VAL:O	4:AD:203:VAL:HG12	2.11	0.48
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.49	0.48
22:CV:74:C:H2'	22:CV:75:C:C5'	2.44	0.48
6:CF:44:GLY:O	6:CF:46:ARG:HG3	2.14	0.48
2:CB:14:GLY:HA3	2:CB:16:HIS:CE1	2.48	0.48
25:B0:56:ASP:O	25:B0:57:PHE:HB2	2.14	0.48
30:D5:42:PRO:HB2	30:D5:43:HIS:CD2	2.49	0.48
53:DU:17:ILE:O	53:DU:20:LEU:N	2.41	0.48
35:DA:2870:C:H2'	35:DA:2871:C:O4'	2.13	0.48
35:DA:1416:G:H1'	35:DA:1417:C:C5	2.49	0.48
2:AB:161:ALA:HA	2:AB:182:ILE:HG23	1.95	0.48
35:BA:1719:G:O2'	35:BA:1720:U:H5'	2.13	0.48
11:CK:70:LYS:HA	11:CK:73:MET:CG	2.44	0.48
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.95	0.48
46:BN:12:ARG:HG2	46:BN:50:ASP:OD1	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1719:G:O2'	35:DA:1720:U:H5'	2.13	0.48
35:BA:1412:A:O2'	35:BA:1413:G:H5'	2.13	0.48
1:AA:696:A:O2'	1:AA:697:U:H5'	2.14	0.48
3:AC:206:GLU:O	3:AC:208:ILE:N	2.47	0.48
35:BA:1417:C:C2'	35:BA:1418:G:H5'	2.44	0.48
13:CM:105:THR:O	13:CM:106:ASN:C	2.52	0.48
35:BA:341:G:O2'	35:BA:342:G:H5'	2.13	0.48
26:D1:86:SER:O	26:D1:90:ILE:CG1	2.60	0.48
51:DS:95:HIS:CG	51:DS:96:GLY:N	2.82	0.48
51:BS:97:ARG:HH21	51:BS:98:VAL:CG2	2.25	0.48
33:D8:10:ALA:HB2	33:D8:59:LYS:HZ2	1.75	0.48
1:CA:1331:G:OP2	13:CM:23:TYR:CD2	2.65	0.48
58:BZ:151:HIS:O	58:BZ:152:ALA:O	2.32	0.48
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.76	0.48
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.96	0.48
41:BG:18:GLU:CG	41:BG:175:LEU:HD13	2.38	0.48
54:BV:39:LEU:CB	54:BV:47:VAL:HG21	2.44	0.48
35:BA:271(L):U:H4'	35:BA:271(M):G:C4	2.49	0.48
9:CI:79:LEU:HD11	9:CI:83:ARG:NH2	2.28	0.48
9:CI:90:PRO:C	9:CI:92:TYR:H	2.15	0.48
35:BA:494:G:N2	55:BW:57:ASN:HD21	2.08	0.48
24:CY:32:ARG:NH1	24:CY:32:ARG:HG3	2.29	0.48
25:B0:48:GLY:HA3	25:B0:80:HIS:HB3	1.95	0.48
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.66	0.48
35:BA:2534:A:C5'	35:BA:2534:A:H8	2.23	0.48
48:BP:57:THR:C	48:BP:59:LEU:N	2.67	0.48
24:CY:54:ARG:HA	24:CY:57:ARG:CD	2.44	0.48
35:DA:686:G:H21	35:DA:788:A:H61	1.62	0.48
24:AY:150:GLN:HB2	24:AY:172:LYS:CB	2.34	0.48
2:CB:28:PHE:CD1	2:CB:28:PHE:O	2.66	0.48
2:CB:88:ALA:HA	2:CB:226:ARG:HH12	1.79	0.48
52:DT:108:ARG:HA	52:DT:111:ARG:HH12	1.79	0.48
56:DX:30:VAL:CG2	56:DX:79:ALA:HB3	2.44	0.48
35:DA:2534:A:H2'	35:DA:2535:G:O5'	2.13	0.48
40:BF:181:LEU:CD1	40:BF:186:ILE:HD11	2.43	0.48
57:BY:55:TYR:O	57:BY:56:PRO:C	2.50	0.48
19:AS:4:SER:O	19:AS:5:LEU:CB	2.57	0.48
57:BY:86:ARG:HG2	57:BY:87:LYS:N	2.29	0.48
5:AE:36:ASP:O	5:AE:37:ARG:CB	2.61	0.48
24:CY:283:LEU:O	24:CY:287:GLU:N	2.47	0.48
46:BN:42:TRP:O	53:BU:64:ARG:NE	2.39	0.48
14:CN:29:ARG:HG2	14:CN:30:ALA:H	1.79	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:90:LEU:N	10:AJ:90:LEU:HD12	2.29	0.48
27:B2:38:GLN:HB2	27:B2:44:LEU:HB3	1.95	0.48
1:CA:1057:G:H5''	3:CC:154:SER:OG	2.14	0.48
11:CK:46:GLY:O	11:CK:48:ILE:O	2.32	0.48
38:BD:147:LEU:HD13	38:BD:155:LEU:HD11	1.94	0.48
3:CC:88:ARG:HH12	3:CC:101:LEU:HB3	1.77	0.48
50:BR:77:ARG:O	50:BR:78:LYS:C	2.51	0.48
8:AH:44:PHE:HA	8:AH:79:VAL:CG1	2.44	0.48
1:CA:741:G:H2'	1:CA:742:G:O4'	2.14	0.48
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.77	0.48
8:CH:23:SER:HA	8:CH:63:LEU:HD22	1.95	0.48
1:CA:475:G:H2'	1:CA:476:G:C8	2.45	0.48
24:CY:182:PRO:HD3	24:CY:349:LEU:CD2	2.43	0.48
37:DC:178:ALA:HB1	37:DC:190:ARG:CB	2.44	0.48
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.13	0.48
22:AV:12:U:H4'	35:BA:1908:C:O2	2.12	0.48
10:AJ:96:ILE:O	10:AJ:96:ILE:HG12	2.13	0.48
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.44	0.48
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.28	0.48
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.77	0.48
35:DA:1434:A:O2'	35:DA:1435:G:H5'	2.14	0.48
35:BA:80:G:C2'	35:BA:81:G:H5'	2.44	0.48
55:DW:1:MET:HE3	55:DW:2:GLU:H	1.79	0.48
53:BU:103:PRO:HD2	53:BU:104:GLN:NE2	2.28	0.48
35:BA:958:U:H6	35:BA:958:U:H3'	1.79	0.48
35:BA:1560:G:N2	35:BA:1561:G:H1'	2.28	0.48
43:BI:93:THR:O	43:BI:96:ASP:HB2	2.13	0.48
35:DA:2177:C:H5''	37:DC:211:SER:CB	2.43	0.48
1:AA:407:G:H2'	1:AA:408:A:H8	1.78	0.48
35:BA:1028:A:N6	35:BA:1125:G:H2'	2.28	0.48
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.79	0.48
40:BF:11:VAL:HG12	40:BF:12:LEU:N	2.28	0.48
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.44	0.48
58:BZ:165:VAL:CG1	58:BZ:166:SER:N	2.55	0.48
35:DA:549:G:C3'	35:DA:551:G:H5''	2.43	0.48
41:DG:166:ASP:O	41:DG:169:ALA:HB3	2.14	0.48
4:CD:17:VAL:CG1	4:CD:18:LYS:N	2.77	0.48
38:DD:111:LEU:HD13	38:DD:112:GLN:N	2.28	0.48
37:BC:87:GLU:CG	37:BC:94:VAL:HG22	2.43	0.48
57:BY:25:GLY:HA3	57:BY:39:VAL:HG13	1.95	0.48
42:DH:88:LEU:C	42:DH:89:ILE:HG13	2.34	0.48
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.76	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:88:ILE:C	53:BU:90:VAL:N	2.67	0.48
53:BU:61:TRP:CD2	53:BU:94:ASN:HA	2.49	0.48
8:CH:109:ILE:HD11	8:CH:120:THR:CG2	2.39	0.48
57:DY:26:LYS:CG	57:DY:27:VAL:H	2.15	0.48
57:DY:27:VAL:HB	57:DY:29:GLU:OE1	2.13	0.48
26:D1:87:PRO:HG2	26:D1:88:LYS:N	2.23	0.48
50:BR:2:ARG:HH12	50:BR:5:LYS:HZ1	1.62	0.48
35:DA:1407:C:H2'	35:DA:1407:C:O2	2.12	0.48
35:BA:2376:A:H1'	51:BS:108:GLY:O	2.14	0.48
35:BA:2445:G:OP1	40:BF:74:ARG:NH2	2.47	0.48
8:AH:30:ARG:CB	8:AH:30:ARG:NH1	2.76	0.48
35:DA:2892:A:H3'	35:DA:2893:G:H4'	1.96	0.48
54:DV:76:LYS:HB2	54:DV:81:TYR:HB3	1.96	0.48
51:DS:52:SER:CB	51:DS:55:ALA:HB3	2.44	0.48
35:BA:389:G:H22	48:BP:72:PRO:CD	2.27	0.48
1:AA:313:A:H2'	1:AA:314:C:C6	2.49	0.48
54:DV:28:GLU:HB2	54:DV:31:ALA:CB	2.43	0.48
60:DI:101:LEU:C	60:DI:101:LEU:HD12	2.34	0.48
3:CC:132:ARG:HA	3:CC:135:LYS:HB2	1.96	0.48
50:BR:24:GLN:OE1	50:BR:44:LEU:HD23	2.13	0.48
1:AA:1188:A:O2'	1:AA:1189:C:H5'	2.13	0.48
45:DK:58:THR:HB	45:DK:66:THR:CG2	2.41	0.48
50:DR:24:GLN:OE1	50:DR:44:LEU:HD23	2.13	0.48
35:DA:1712:C:O2'	35:DA:1713:U:H5'	2.14	0.48
2:CB:98:LEU:O	2:CB:101:MET:HG3	2.13	0.48
8:CH:51:VAL:HG11	8:CH:60:ARG:NH1	2.25	0.48
24:AY:229:ILE:O	24:AY:229:ILE:HG22	2.12	0.48
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.43	0.48
39:DE:130:GLY:O	39:DE:131:ALA:C	2.52	0.48
8:CH:100:ILE:HG23	8:CH:101:PRO:HD2	1.96	0.48
10:AJ:3:LYS:CB	10:AJ:77:PRO:HD3	2.44	0.48
58:BZ:132:ASN:N	58:BZ:132:ASN:OD1	2.46	0.48
1:CA:791:G:N2	1:CA:1497:G:O3'	2.47	0.48
45:DK:131:ALA:HA	45:DK:136:VAL:CG1	2.43	0.48
1:CA:271:C:O2'	1:CA:272:C:H5'	2.13	0.48
58:DZ:72:ARG:NH2	58:DZ:97:GLU:O	2.47	0.48
4:AD:61:LYS:NZ	4:AD:62:GLN:HE22	2.12	0.48
35:DA:470:A:H2'	35:DA:471:A:O4'	2.14	0.48
1:AA:445:G:H2'	1:AA:446:G:H8	1.79	0.48
1:CA:1461:G:H2'	1:CA:1462:G:C8	2.49	0.48
1:CA:895:G:H2'	1:CA:896:C:H6	1.78	0.48
16:CP:58:TYR:O	16:CP:61:SER:N	2.46	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2133:G:H1'	35:DA:2158:A:H61	1.78	0.48
35:BA:271(J):C:C2'	35:BA:271(K):U:H5''	2.44	0.48
11:AK:122:LYS:O	11:AK:126:ARG:HG3	2.14	0.48
25:B0:29:GLN:O	25:B0:67:VAL:HG23	2.13	0.48
25:D0:56:ASP:O	25:D0:57:PHE:HB2	2.14	0.48
49:DQ:137:TYR:HD2	58:DZ:76:LEU:HD23	1.79	0.48
35:BA:919:G:H5'	36:BB:81:G:H1'	1.94	0.48
47:DO:72:PRO:C	47:DO:74:GLY:H	2.17	0.48
27:B2:32:LEU:HD23	27:B2:32:LEU:C	2.34	0.48
35:BA:409:C:O2'	35:BA:410:G:H5'	2.14	0.48
1:AA:692:U:H5	11:AK:26:ASN:OD1	1.97	0.48
40:BF:155:LEU:HD12	40:BF:174:VAL:O	2.14	0.48
35:DA:2777:G:H4'	35:DA:2778:A:H5'	1.94	0.48
29:B4:40:ILE:N	29:B4:40:ILE:HD12	2.29	0.48
45:DK:101:TRP:NE1	45:DK:140:GLY:HA3	2.29	0.48
25:D0:45:PHE:HD2	25:D0:79:VAL:HG23	1.78	0.48
5:AE:84:PHE:HB3	5:AE:134:ALA:HB2	1.96	0.48
55:BW:110:LYS:HG3	55:BW:111:HIS:H	1.79	0.48
35:DA:271(C):C:H2'	35:DA:271(D):G:C8	2.49	0.48
36:DB:37:C:H2'	36:DB:38:C:H5'	1.95	0.48
33:D8:7:HIS:HB2	33:D8:59:LYS:HD2	1.96	0.48
48:DP:49:ARG:HG2	48:DP:49:ARG:O	2.09	0.48
45:DK:91:PRO:C	58:DZ:112:ARG:NH2	2.67	0.48
35:BA:813:U:C5	48:BP:27:HIS:HD2	2.32	0.48
57:DY:45:VAL:HA	57:DY:62:GLU:HB2	1.95	0.48
48:DP:23:PRO:HD2	48:DP:33:ARG:CZ	2.44	0.48
40:BF:18:ARG:CG	40:BF:19:GLU:H	2.26	0.48
40:DF:19:GLU:N	40:DF:19:GLU:CD	2.67	0.48
1:AA:545:C:O2'	1:AA:546:G:H5'	2.13	0.48
41:DG:82:LEU:HD22	41:DG:87:PRO:CG	2.24	0.48
24:AY:128:GLU:HA	24:AY:195:PHE:CE2	2.49	0.48
52:DT:29:ARG:HG2	52:DT:86:ILE:HG23	1.96	0.48
35:DA:1171:G:H3'	35:DA:1173:G:C4'	2.42	0.48
31:B6:15:GLU:HG2	31:B6:18:ARG:HE	1.77	0.48
37:DC:86:ALA:HB3	37:DC:94:VAL:HG21	1.96	0.48
58:DZ:30:ASN:HD21	58:DZ:33:LEU:N	2.12	0.48
35:DA:1777:U:O2'	35:DA:1778:U:H5'	2.13	0.48
54:DV:18:LEU:CD2	54:DV:19:LYS:H	2.25	0.48
54:BV:5:VAL:HG22	54:BV:6:LYS:N	2.29	0.48
51:BS:89:ARG:CB	51:BS:92:TYR:HB3	2.43	0.48
24:CY:56:ARG:O	24:CY:60:ASP:HB3	2.14	0.48
45:BK:87:GLY:O	45:BK:88:ALA:HB2	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:20:LEU:CA	19:CS:23:ASN:HB3	2.42	0.48
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.94	0.48
12:CL:23:LYS:O	12:CL:24:VAL:HG23	2.13	0.48
20:AT:54:LYS:HA	20:AT:57:ARG:NH2	2.29	0.48
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.13	0.48
39:DE:69:LYS:NZ	39:DE:90:THR:H	2.11	0.48
10:CJ:22:LYS:C	10:CJ:22:LYS:HD2	2.34	0.48
1:CA:401:C:H2'	1:CA:402:G:C8	2.49	0.48
39:DE:30:PRO:HD3	39:DE:180:ASN:ND2	2.29	0.48
1:CA:438:G:H4'	4:CD:123:HIS:CE1	2.49	0.48
4:AD:150:GLU:N	4:AD:150:GLU:OE1	2.47	0.48
1:CA:313:A:H2'	1:CA:314:C:C6	2.49	0.48
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.13	0.48
35:BA:286:C:C2'	35:BA:287:C:H5''	2.40	0.48
1:CA:692:U:H5	11:CK:26:ASN:OD1	1.97	0.48
51:DS:34:HIS:ND1	51:DS:54:LEU:HB2	2.28	0.48
34:B9:8:LYS:O	34:B9:34:GLN:OE1	2.32	0.48
1:AA:1052:U:H2'	1:AA:1055:A:OP1	2.13	0.48
1:CA:627:G:O2'	1:CA:628:G:H5'	2.14	0.48
48:DP:65:ARG:O	48:DP:68:GLN:HB3	2.14	0.48
38:BD:235:GLY:C	38:BD:237:GLU:N	2.66	0.48
53:BU:27:LEU:N	53:BU:27:LEU:CD2	2.73	0.48
45:BK:66:THR:O	45:BK:66:THR:HG23	2.14	0.48
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.14	0.48
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.21	0.48
1:AA:1059:C:O3'	14:AN:45:ARG:NH2	2.47	0.48
8:CH:35:ILE:HG23	8:CH:111:ILE:CD1	2.43	0.48
1:AA:1458:G:H5'	20:AT:32:ALA:HB2	1.95	0.48
3:CC:76:VAL:HG21	3:CC:103:VAL:HG11	1.96	0.48
2:CB:79:ASP:HA	2:CB:82:ARG:HG2	1.96	0.48
2:CB:217:ARG:O	2:CB:221:LEU:HD23	2.14	0.48
10:CJ:96:ILE:HG12	10:CJ:96:ILE:O	2.14	0.48
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.46	0.48
20:AT:74:LYS:C	20:AT:76:ALA:N	2.64	0.48
26:B1:7:ILE:HD12	26:B1:62:VAL:HG21	1.95	0.48
39:DE:174:ASP:OD2	39:DE:175:VAL:N	2.45	0.48
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.29	0.48
1:AA:1255:G:C5'	3:AC:26:LYS:HE3	2.44	0.48
35:DA:2075:U:H2'	35:DA:2238:G:N2	2.29	0.48
1:CA:225:C:H2'	1:CA:226:G:H8	1.78	0.48
35:BA:1087:G:C2	35:BA:1103:A:C2	3.02	0.48
3:CC:164:ARG:CB	3:CC:164:ARG:NH1	2.77	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:269:C:H2'	1:CA:270:A:H8	1.78	0.48
4:AD:64:LEU:HD11	4:AD:97:LEU:CD1	2.44	0.48
1:CA:600:C:O2'	1:CA:601:C:H5'	2.14	0.48
60:DI:2:LYS:CD	60:DI:20:ASP:HB3	2.43	0.48
35:DA:2515:C:O2'	35:DA:2516:G:H5'	2.14	0.48
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.49	0.48
41:BG:71:THR:OG1	41:BG:89:GLY:HA3	2.14	0.48
6:CF:42:GLU:O	6:CF:44:GLY:N	2.47	0.48
47:BO:13:ASN:HD21	47:BO:97:ARG:N	2.12	0.48
3:AC:126:ARG:HG2	3:AC:126:ARG:HH11	1.79	0.48
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.49	0.48
35:BA:729:G:H5'	35:BA:730:C:H5''	1.96	0.48
30:D5:42:PRO:HB2	30:D5:43:HIS:HD2	1.79	0.48
35:DA:1602:U:H3'	35:DA:1603:A:C5'	2.44	0.48
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.49	0.48
1:AA:547:A:H4'	1:AA:548:G:O5'	2.14	0.48
35:DA:902:C:O2'	35:DA:903:C:H5'	2.13	0.48
27:D2:18:PRO:O	27:D2:21:LEU:HB2	2.13	0.48
36:BB:71:C:C2	36:BB:72:G:C8	3.01	0.48
29:B4:53:THR:C	29:B4:54:LYS:HD2	2.33	0.48
35:DA:195:A:H5''	35:DA:196:A:OP2	2.13	0.47
49:DQ:134:ARG:NH1	58:DZ:119:GLU:CD	2.67	0.47
35:DA:1888:G:N3	35:DA:1888:G:H3'	2.29	0.47
1:AA:56:U:H4'	60:DI:82:ARG:HH22	1.79	0.47
35:BA:549:G:C3'	35:BA:551:G:H5''	2.43	0.47
30:B5:46:CYS:O	30:B5:48:GLU:N	2.46	0.47
35:DA:2781:A:C5'	35:DA:2782:G:H5'	2.29	0.47
9:CI:83:ARG:HA	9:CI:86:VAL:HG12	1.96	0.47
22:AW:68:C:H2'	22:AW:69:G:C5'	2.44	0.47
5:AE:136:MET:C	5:AE:138:ALA:H	2.17	0.47
19:AS:66:MET:HB2	19:AS:74:PHE:CZ	2.49	0.47
52:BT:108:ARG:HA	52:BT:111:ARG:HH12	1.78	0.47
35:BA:2334:G:H21	51:BS:18:ILE:HG12	1.76	0.47
27:D2:14:ARG:NH2	35:DA:78:A:OP1	2.47	0.47
52:BT:3:ARG:C	52:BT:5:ALA:N	2.67	0.47
1:AA:1445:C:H2'	1:AA:1446:U:C5'	2.33	0.47
2:CB:28:PHE:CZ	2:CB:31:TYR:HB2	2.48	0.47
39:BE:69:LYS:NZ	39:BE:90:THR:H	2.12	0.47
22:CW:65:G:O2'	22:CW:66:U:H5'	2.14	0.47
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.67	0.47
35:DA:2892:A:H2'	35:DA:2893:G:H4'	1.96	0.47
35:BA:2892:A:H3'	35:BA:2893:G:H4'	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:56:ASN:ND2	46:BN:126:PRO:HD3	2.29	0.47
25:B0:34:GLY:O	25:B0:35:ASN:C	2.52	0.47
35:DA:1054:A:H2'	35:DA:1055:G:H8	1.75	0.47
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.47	0.47
22:AV:37:A:H2'	22:AV:38:A:O4'	2.14	0.47
10:CJ:48:THR:CG2	10:CJ:62:HIS:HB3	2.44	0.47
1:AA:438:G:H4'	4:AD:123:HIS:CE1	2.49	0.47
1:AA:1188:A:H2'	1:AA:1189:C:H5'	1.94	0.47
45:DK:55:VAL:HG22	45:DK:57:ILE:HD11	1.96	0.47
35:DA:2099:U:O2	35:DA:2099:U:C2'	2.57	0.47
45:BK:123:ALA:O	45:BK:127:ILE:HG12	2.13	0.47
3:AC:6:HIS:CB	14:AN:49:HIS:HD2	2.27	0.47
33:D8:13:ARG:HA	48:DP:65:ARG:HD3	1.95	0.47
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.14	0.47
1:CA:1292:U:H5'	9:CI:38:GLN:HE21	1.77	0.47
11:CK:63:LEU:O	11:CK:63:LEU:HD23	2.14	0.47
1:CA:1006:C:H2'	1:CA:1007:C:H6	1.77	0.47
35:DA:2468:G:P	49:DQ:119:ARG:HH22	2.37	0.47
50:BR:66:VAL:HG11	50:BR:79:LEU:CD1	2.43	0.47
53:BU:79:PHE:CZ	53:BU:83:LEU:HD22	2.49	0.47
1:AA:332:G:O2'	1:AA:333:G:H5'	2.13	0.47
6:CF:96:PRO:HB3	18:CR:30:ASP:OD2	2.13	0.47
1:AA:757:U:OP1	1:AA:822:C:O2'	2.31	0.47
21:CU:6:ARG:NH2	21:CU:15:ARG:HH21	2.12	0.47
1:CA:1287:A:H2	1:CA:1353:G:N3	2.11	0.47
34:B9:27:CYS:SG	34:B9:29:ASN:ND2	2.87	0.47
58:BZ:24:LEU:HD21	58:BZ:86:VAL:CG1	2.43	0.47
26:B1:47:GLN:HG3	35:BA:2091:U:O2'	2.14	0.47
42:BH:100:GLY:C	42:BH:102:ALA:N	2.67	0.47
35:DA:1087:G:C2	35:DA:1103:A:C2	3.02	0.47
35:DA:2827:C:H5'	35:DA:2828:C:OP2	2.14	0.47
35:DA:1292:U:H2'	35:DA:1293:C:H6	1.79	0.47
1:CA:167:G:O2'	1:CA:168:G:H5'	2.15	0.47
39:BE:37:ARG:HA	39:BE:42:ASP:OD2	2.13	0.47
25:B0:25:ARG:HD3	25:B0:29:GLN:NE2	2.29	0.47
1:AA:515:G:O2'	1:AA:516:U:H5'	2.14	0.47
36:DB:89:G:H2'	36:DB:90:A:C8	2.49	0.47
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.96	0.47
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.95	0.47
35:BA:1550:C:H2'	35:BA:1551:C:H6	1.79	0.47
45:BK:101:TRP:NE1	45:BK:140:GLY:HA3	2.29	0.47
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DK:5:VAL:HG13	45:DK:5:VAL:O	2.14	0.47
10:CJ:82:ILE:HG22	10:CJ:82:ILE:O	2.13	0.47
24:CY:324:HIS:ND1	24:CY:324:HIS:N	2.57	0.47
37:BC:213:TYR:CB	37:BC:219:GLY:H	2.27	0.47
26:D1:82:LEU:O	26:D1:83:GLU:CB	2.62	0.47
31:D6:28:ARG:NH2	31:D6:33:LYS:HE3	2.30	0.47
31:D6:51:GLU:O	31:D6:52:VAL:CB	2.61	0.47
52:BT:30:VAL:CG1	52:BT:84:GLN:HG3	2.23	0.47
48:BP:26:GLY:HA2	48:BP:30:THR:HG21	1.96	0.47
40:BF:22:ALA:C	40:BF:26:ALA:HB2	2.34	0.47
30:B5:45:VAL:HG22	30:B5:51:TYR:CD2	2.50	0.47
24:AY:70:GLN:C	24:AY:72:LEU:N	2.66	0.47
58:BZ:109:ALA:HB1	58:BZ:145:GLU:HG2	1.95	0.47
24:CY:19:ILE:C	24:CY:21:GLN:H	2.16	0.47
4:CD:25:ARG:C	4:CD:27:TYR:H	2.18	0.47
28:B3:3:ARG:O	28:B3:4:LEU:C	2.51	0.47
31:B6:19:ARG:CG	31:B6:20:ASN:N	2.65	0.47
37:DC:87:GLU:CG	37:DC:94:VAL:HG22	2.44	0.47
35:DA:1789:A:OP1	38:DD:222:ARG:HG3	2.15	0.47
24:AY:296:LYS:C	24:AY:298:LEU:H	2.18	0.47
53:BU:49:HIS:O	53:BU:52:ARG:HB2	2.14	0.47
51:DS:14:VAL:HG22	51:DS:91:PRO:HD3	1.96	0.47
35:BA:1077:A:H2'	35:BA:1078:U:O4'	2.14	0.47
9:AI:83:ARG:HA	9:AI:86:VAL:HG12	1.96	0.47
1:CA:959:A:H2'	1:CA:960:U:H4'	1.96	0.47
19:CS:19:VAL:HG12	19:CS:19:VAL:O	2.13	0.47
49:BQ:5:ARG:O	49:BQ:6:ARG:CG	2.62	0.47
1:CA:1432:G:O2'	1:CA:1468:A:N6	2.48	0.47
47:DO:53:LYS:HE3	47:DO:53:LYS:H	1.73	0.47
20:CT:48:LYS:O	20:CT:49:ALA:HB2	2.14	0.47
38:BD:92:ILE:CG2	38:BD:93:ALA:N	2.78	0.47
39:BE:69:LYS:HD3	39:BE:89:ASP:OD1	2.13	0.47
8:AH:86:ILE:HG22	8:AH:87:SER:H	1.74	0.47
22:CW:59:U:H2'	22:CW:60:U:H5'	1.96	0.47
12:CL:55:VAL:CG1	12:CL:56:ALA:H	2.19	0.47
22:AW:9:A:C4'	22:AW:46:G:H5'	2.40	0.47
58:DZ:61:LEU:N	58:DZ:61:LEU:HD22	2.28	0.47
4:CD:125:HIS:O	4:CD:126:ILE:HD13	2.14	0.47
7:CG:15:ASP:HB3	7:CG:19:GLY:N	2.29	0.47
43:BI:71:ILE:HG23	43:BI:72:LEU:N	2.29	0.47
43:BI:6:LEU:HA	43:BI:15:VAL:HG13	1.96	0.47
35:DA:389:G:H22	48:DP:72:PRO:CD	2.26	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:28:ARG:NH1	53:BU:38:THR:OG1	2.46	0.47
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.82	0.47
13:CM:117:VAL:CG1	13:CM:118:ALA:N	2.77	0.47
13:CM:115:LYS:O	13:CM:117:VAL:HG23	2.13	0.47
22:AW:42:C:H2'	22:AW:43:C:C6	2.49	0.47
35:BA:9:U:H5''	46:BN:115:ARG:NH2	2.29	0.47
1:AA:1057:G:H5''	3:AC:154:SER:OG	2.14	0.47
39:BE:101:ARG:HD3	39:BE:169:ASN:HD21	1.79	0.47
36:DB:13:A:O2'	36:DB:14:U:H5''	2.14	0.47
36:BB:66:A:O2'	36:BB:67:G:O5'	2.32	0.47
6:AF:11:ASN:O	6:AF:14:LEU:HG	2.14	0.47
1:CA:560:U:O2'	1:CA:561:U:OP2	2.25	0.47
1:CA:262:A:H5''	20:CT:76:ALA:HB2	1.96	0.47
35:BA:2096:U:O2'	35:BA:2097:C:H5'	2.14	0.47
1:AA:511:C:H1'	4:AD:43:HIS:HE2	1.79	0.47
1:AA:511:C:HO2'	1:AA:512:U:H6	1.62	0.47
33:D8:39:LYS:O	33:D8:43:GLN:HB2	2.13	0.47
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.78	0.47
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.75	0.47
6:CF:11:ASN:O	6:CF:14:LEU:HG	2.14	0.47
5:CE:15:ARG:HD2	5:CE:26:PHE:CD2	2.49	0.47
3:AC:23:TYR:CD2	3:AC:24:ALA:N	2.82	0.47
52:BT:14:TYR:H	52:BT:14:TYR:HD1	1.61	0.47
20:AT:37:SER:O	20:AT:41:ILE:HG12	2.13	0.47
47:BO:77:ILE:HD11	52:BT:72:VAL:HG13	1.96	0.47
1:CA:445:G:H2'	1:CA:446:G:H8	1.79	0.47
7:AG:18:TYR:CD2	7:AG:59:LEU:HB2	2.48	0.47
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.44	0.47
1:CA:688:G:H2'	1:CA:689:C:C6	2.48	0.47
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.29	0.47
22:AV:23:A:H2'	22:AV:24:G:C8	2.49	0.47
35:BA:301:G:C4	35:BA:302:C:C5	3.02	0.47
1:AA:88:A:H2	1:AA:89:C:H5	1.62	0.47
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.29	0.47
35:BA:1665:A:O2'	35:BA:1666:G:H5'	2.14	0.47
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.44	0.47
59:D4:53:THR:O	59:D4:54:LYS:HB2	2.14	0.47
35:DA:154(A):C:O2	35:DA:154(A):C:O4'	2.29	0.47
35:BA:1411:C:H2'	35:BA:1412:A:H8	1.79	0.47
36:DB:74:U:H2'	36:DB:75:G:O4'	2.14	0.47
19:AS:33:THR:OG1	19:AS:34:TRP:N	2.47	0.47
35:DA:1251:C:OP1	53:DU:10:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:265:A:H1'	35:DA:266:G:O4'	2.14	0.47
35:BA:2335:A:C8	35:BA:2337:G:C5	3.02	0.47
58:DZ:63:ASP:O	58:DZ:65:GLN:N	2.47	0.47
51:DS:42:ASP:C	51:DS:44:LYS:H	2.17	0.47
27:D2:50:ILE:N	27:D2:50:ILE:HD12	2.29	0.47
1:AA:1256:A:H5'	1:AA:1257:U:OP1	2.14	0.47
1:CA:598:U:H4'	8:CH:94:TYR:CG	2.49	0.47
35:BA:907:U:OP1	49:BQ:24:GLY:N	2.46	0.47
21:AU:2:GLY:C	21:AU:4:GLY:H	2.18	0.47
2:CB:161:ALA:HA	2:CB:182:ILE:HG23	1.95	0.47
1:AA:376:G:O3'	16:AP:5:ARG:NH1	2.47	0.47
1:AA:375:U:H4'	16:AP:17:TYR:HE2	1.79	0.47
33:D8:3:LYS:HE2	35:DA:242:G:O5'	2.14	0.47
41:DG:44:GLY:C	41:DG:46:ALA:N	2.65	0.47
18:AR:21:LYS:NZ	18:AR:55:ARG:N	2.61	0.47
35:DA:2572:A:C8	39:DE:144:ARG:HD2	2.49	0.47
4:CD:28:SER:O	4:CD:30:LYS:HG2	2.14	0.47
24:AY:31:ARG:NH2	45:BK:18:THR:O	2.47	0.47
53:DU:62:ILE:HD12	53:DU:76:TYR:CZ	2.49	0.47
48:BP:134:ALA:C	48:BP:136:GLU:H	2.17	0.47
57:BY:29:GLU:N	57:BY:29:GLU:CD	2.66	0.47
57:BY:28:LYS:CB	57:BY:38:ILE:H	2.24	0.47
42:BH:96:ALA:HB2	42:BH:105:LEU:HA	1.94	0.47
31:B6:19:ARG:H	31:B6:19:ARG:HD2	1.78	0.47
31:B6:18:ARG:NH1	31:B6:43:CYS:HB2	2.29	0.47
58:DZ:30:ASN:C	58:DZ:30:ASN:ND2	2.67	0.47
35:DA:784:A:C5'	38:DD:227:ASN:HD21	2.14	0.47
52:BT:106:SER:O	52:BT:107:ASP:OD1	2.33	0.47
35:BA:2162:G:H2'	35:BA:2163:C:C6	2.44	0.47
37:BC:58:VAL:HG21	37:BC:166:ASP:H	1.80	0.47
52:BT:35:LYS:HZ1	52:BT:41:ARG:HH21	1.59	0.47
37:DC:49:ILE:C	37:DC:51:PRO:HD3	2.34	0.47
9:AI:48:GLU:OE2	9:AI:51:ARG:HD2	2.14	0.47
10:AJ:37:PRO:CA	10:AJ:72:VAL:HG22	2.40	0.47
1:CA:1346:A:C4	7:CG:10:ARG:NH1	2.82	0.47
60:DI:8:PRO:O	60:DI:13:GLY:CA	2.62	0.47
27:B2:8:LYS:O	27:B2:9:GLN:C	2.52	0.47
58:BZ:7:ALA:HB2	58:BZ:59:LEU:CD2	2.35	0.47
2:AB:58:ILE:O	2:AB:62:ALA:HB2	2.14	0.47
51:BS:51:ALA:O	51:BS:69:VAL:HG22	2.14	0.47
51:BS:35:ILE:HG23	51:BS:69:VAL:HG11	1.96	0.47
1:AA:877:C:OP1	8:AH:88:LYS:HD3	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:49:VAL:CG1	57:BY:53:PRO:HG3	2.42	0.47
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.45	0.47
38:DD:133:LEU:HG	38:DD:189:CYS:O	2.14	0.47
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	2.15	0.47
39:BE:27:LEU:HD13	39:BE:181:LEU:HD12	1.96	0.47
22:AV:37:A:H3'	22:AV:38:A:H8	1.79	0.47
35:DA:1437:C:H6	35:DA:1437:C:C5'	2.28	0.47
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.13	0.47
35:DA:2277:G:H2'	35:DA:2278:A:H5'	1.97	0.47
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.79	0.47
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.79	0.47
47:BO:102:VAL:HG23	47:BO:121:VAL:HA	1.96	0.47
35:DA:797:C:P	40:DF:62:ARG:HG3	2.55	0.47
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HD22	1.80	0.47
8:AH:35:ILE:HG23	8:AH:111:ILE:CD1	2.40	0.47
24:AY:332:ASP:O	24:AY:336:VAL:HG23	2.13	0.47
9:CI:22:GLY:HA3	9:CI:60:ASP:OD2	2.14	0.47
3:CC:152:ILE:HG12	3:CC:167:TRP:HD1	1.78	0.47
1:CA:1060:C:H4'	10:CJ:52:GLY:N	2.29	0.47
15:CO:43:LEU:C	15:CO:45:VAL:N	2.67	0.47
35:BA:1564:C:O2'	35:BA:1565:C:H5'	2.14	0.47
35:BA:719:C:O2'	35:BA:720:C:H5'	2.14	0.47
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.95	0.47
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	2.15	0.47
22:CV:66:U:H2'	22:CV:67:C:C6	2.48	0.47
21:CU:12:LYS:O	21:CU:16:GLY:N	2.47	0.47
38:BD:158:ALA:HB3	38:BD:161:THR:CG2	2.43	0.47
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.14	0.47
1:AA:39:G:O2'	1:AA:40:C:H5'	2.15	0.47
20:CT:37:SER:HB3	20:CT:84:LEU:CD2	2.44	0.47
1:AA:148:G:O2'	1:AA:149:A:H5'	2.14	0.47
55:BW:61:ASN:N	55:BW:61:ASN:HD22	2.10	0.47
52:DT:112:ARG:NH1	52:DT:112:ARG:CB	2.77	0.47
36:DB:40:U:H3'	36:DB:41:U:C5'	2.44	0.47
36:BB:105:A:H2'	36:BB:106:G:O4'	2.14	0.47
52:DT:1:MET:CG	52:DT:2:ASN:H	2.27	0.47
35:DA:919:G:H5'	36:DB:81:G:H1'	1.95	0.47
4:CD:165:MET:C	4:CD:167:GLY:N	2.68	0.47
35:BA:256:A:H2'	35:BA:257:A:H8	1.79	0.47
35:BA:2712:U:OP1	35:BA:2714:G:H4'	2.14	0.47
52:BT:1:MET:HG3	52:BT:2:ASN:N	2.29	0.47
47:BO:110:GLY:HA2	47:BO:112:MET:CE	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2359:C:H2'	35:DA:2360:A:O4'	2.14	0.47
60:DI:16:GLY:O	60:DI:17:GLN:O	2.33	0.47
1:CA:179:A:H2'	1:CA:180:U:C6	2.49	0.47
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.96	0.47
1:CA:632:A:H8	1:CA:633:G:C8	2.32	0.47
45:BK:35:MET:C	45:BK:37:PHE:H	2.17	0.47
35:BA:2785:C:H2'	35:BA:2786:U:O4'	2.15	0.47
4:CD:160:GLN:O	4:CD:163:GLU:HB3	2.14	0.47
60:DI:40:THR:O	60:DI:44:LEU:HB2	2.15	0.47
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.87	0.47
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.79	0.47
22:CV:43:C:H2'	22:CV:44:G:C8	2.49	0.47
45:BK:5:VAL:O	45:BK:5:VAL:HG13	2.14	0.47
35:DA:66:C:O2'	35:DA:67:U:H5'	2.14	0.47
1:CA:1229:A:OP2	13:CM:114:ARG:HD3	2.15	0.47
35:DA:2243:U:H2'	35:DA:2244:U:C6	2.49	0.47
35:DA:2203:U:H1'	35:DA:2221:G:H22	1.79	0.47
35:BA:271(R):G:H2'	35:BA:271(S):G:H8	1.79	0.47
58:BZ:124:ILE:HD13	58:BZ:163:LEU:HD11	1.96	0.47
35:DA:1062:G:H2'	35:DA:1063:G:H8	1.79	0.47
45:DK:93:ARG:NH1	45:DK:94:GLU:HB2	2.29	0.47
31:B6:25:LYS:HE2	31:B6:27:LYS:NZ	2.29	0.47
40:BF:19:GLU:CD	40:BF:19:GLU:N	2.68	0.47
40:BF:24:LEU:C	40:BF:26:ALA:N	2.67	0.47
40:DF:3:GLU:CA	40:DF:24:LEU:HG	2.34	0.47
24:AY:61:THR:O	24:AY:65:LEU:HB2	2.15	0.47
1:AA:543:C:C2	1:AA:544:G:C8	3.02	0.47
41:BG:125:PHE:HB3	41:BG:166:ASP:OD2	2.13	0.47
1:CA:413:G:O6	4:CD:35:ARG:HD3	2.13	0.47
54:DV:34:GLU:O	54:DV:36:PRO:CD	2.62	0.47
48:BP:147:LEU:HD12	48:BP:148:LEU:N	2.20	0.47
60:DI:52:ARG:HB3	60:DI:56:LYS:HE2	1.95	0.47
42:BH:158:HIS:CD2	42:BH:170:ARG:HA	2.47	0.47
10:CJ:6:ILE:CB	10:CJ:98:ILE:HG13	2.43	0.47
10:CJ:37:PRO:CA	10:CJ:72:VAL:HG22	2.41	0.47
31:D6:13:CYS:HB3	31:D6:49:HIS:HB3	1.95	0.47
8:AH:109:ILE:HG13	8:AH:122:ARG:HH21	1.79	0.47
51:BS:16:ASN:O	51:BS:19:LYS:HB3	2.13	0.47
57:DY:2:ARG:N	57:DY:5:MET:SD	2.88	0.47
60:DI:5:LEU:HD22	60:DI:9:LEU:HD12	1.97	0.47
35:DA:2162:G:H2'	35:DA:2163:C:C6	2.44	0.47
1:AA:954:G:H2'	1:AA:955:U:H6	1.79	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:222:ILE:HG22	2:CB:226:ARG:HH21	1.78	0.47
2:AB:88:ALA:HA	2:AB:226:ARG:HH12	1.80	0.47
22:CW:48:C:H2'	22:CW:59:U:H4'	1.96	0.47
3:CC:87:LEU:C	3:CC:89:GLU:N	2.66	0.47
24:CY:190:VAL:O	24:CY:191:ARG:CB	2.62	0.47
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.79	0.47
5:CE:75:THR:HA	5:CE:115:VAL:HG13	1.96	0.47
35:BA:650:C:H3'	35:BA:651:G:C5'	2.41	0.47
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.48	0.47
48:DP:123:LEU:HD23	48:DP:123:LEU:N	2.30	0.47
57:BY:42:VAL:HG11	57:BY:65:ALA:HB3	1.94	0.47
35:BA:2617:C:H2'	35:BA:2618:G:H5'	1.96	0.47
47:BO:64:ARG:NH1	47:BO:83:ALA:HB3	2.29	0.47
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.49	0.47
1:CA:674:G:H21	11:CK:116:HIS:HB2	1.79	0.47
3:CC:6:HIS:CB	14:CN:49:HIS:HD2	2.28	0.47
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.67	0.47
11:CK:88:GLY:O	11:CK:89:ALA:C	2.53	0.47
45:DK:100:THR:HG22	45:DK:139:VAL:HB	1.96	0.47
3:AC:167:TRP:CG	3:AC:168:ALA:N	2.82	0.47
6:CF:62:TRP:HH2	6:CF:64:GLN:HE21	1.62	0.47
22:CV:15:G:H2'	22:CV:16:U:C5	2.50	0.47
35:BA:986:C:O2'	35:BA:987:G:H5'	2.15	0.47
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.29	0.47
1:AA:1502:A:H2	1:AA:1505:G:H1	1.60	0.47
39:BE:70:ALA:O	39:BE:71:GLY:C	2.53	0.47
37:DC:43:VAL:CG2	37:DC:178:ALA:HB2	2.42	0.47
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.49	0.47
22:CW:70:G:C2'	22:CW:71:G:H5''	2.45	0.47
35:DA:2847:U:OP1	52:DT:98:LYS:HD3	2.14	0.47
58:BZ:26:GLY:HA2	58:BZ:85:HIS:CD2	2.50	0.47
37:DC:65:PRO:HG2	37:DC:189:ILE:CB	2.44	0.47
39:BE:172:VAL:HG13	39:BE:182:LEU:HD11	1.96	0.47
38:BD:211:ARG:O	38:BD:212:SER:C	2.52	0.47
3:AC:164:ARG:HB3	3:AC:164:ARG:HH11	1.78	0.47
24:CY:331:HIS:C	24:CY:333:PRO:HD2	2.35	0.47
12:CL:75:HIS:HA	12:CL:102:ARG:HH22	1.80	0.47
38:BD:260:ARG:O	38:BD:261:LYS:C	2.52	0.47
35:BA:1241:A:O2'	35:BA:1242:A:H5'	2.13	0.47
11:AK:34:ASP:C	11:AK:36:ASP:H	2.18	0.47
1:AA:889:A:N1	1:AA:907:A:H5''	2.29	0.47
1:CA:658:G:H1'	15:CO:22:THR:HB	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1912:A:O2'	35:BA:1913:A:C5'	2.62	0.47
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.15	0.47
1:AA:157:G:O2'	1:AA:158:G:H5'	2.14	0.47
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.79	0.47
47:DO:14:THR:O	47:DO:51:ALA:HB3	2.14	0.47
55:DW:69:LEU:HA	55:DW:108:GLY:O	2.15	0.47
41:BG:167:GLU:H	41:BG:167:GLU:CD	2.18	0.47
1:CA:1366:C:O2'	1:CA:1367:C:H5'	2.14	0.47
35:DA:270:A:O2'	35:DA:271:A:H5'	2.13	0.47
1:CA:61:G:O2'	1:CA:62:U:H5'	2.15	0.47
39:BE:104:VAL:HG11	39:BE:188:VAL:HG21	1.95	0.47
40:DF:144:LYS:C	40:DF:146:ALA:H	2.17	0.47
7:AG:27:ILE:HA	7:AG:30:ILE:HG12	1.96	0.47
22:AW:3:C:H6	22:AW:3:C:O5'	1.97	0.47
44:DJ:22:UNK:CB	44:DJ:119:UNK:HA	2.44	0.47
36:DB:114:C:O2'	36:DB:115:G:H5'	2.14	0.47
52:BT:31:SER:OG	52:BT:32:TYR:N	2.48	0.47
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.34	0.47
35:DA:2308:G:N2	41:DG:79:ASN:CB	2.77	0.47
41:BG:161:THR:HG22	41:BG:162:THR:H	1.76	0.47
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.32	0.47
25:D0:41:ARG:CB	35:DA:2330:G:H1'	2.44	0.47
35:DA:360:G:H2'	35:DA:361:G:H8	1.79	0.47
35:BA:1789:A:OP1	38:BD:222:ARG:HG3	2.15	0.47
57:BY:26:LYS:O	57:BY:28:LYS:HE3	2.15	0.47
26:D1:67:ILE:H	26:D1:68:PRO:HD2	1.78	0.47
42:DH:87:LEU:C	42:DH:88:LEU:HD22	2.35	0.47
35:DA:1778:U:H2'	35:DA:1784:A:N6	2.30	0.47
52:BT:100:TYR:O	52:BT:102:ILE:N	2.48	0.47
52:DT:16:ARG:HB2	52:DT:79:HIS:CD2	2.50	0.47
52:DT:78:LEU:HD22	52:DT:79:HIS:CE1	2.49	0.47
52:BT:41:ARG:HB3	52:BT:41:ARG:NH1	2.29	0.47
35:DA:1309:G:O2'	35:DA:1310:G:H5'	2.15	0.47
32:B7:8:ASN:HD22	32:B7:9:ARG:N	2.09	0.47
7:AG:28:ASN:O	7:AG:31:MET:HB3	2.14	0.47
1:CA:57:G:O6	1:CA:356:A:C2	2.67	0.47
22:AW:19:G:P	22:AW:60:U:O4	2.73	0.47
39:DE:26:ILE:HG22	39:DE:27:LEU:N	2.27	0.47
1:CA:372:C:C4'	1:CA:373:A:OP1	2.54	0.47
1:CA:1452:C:H4'	1:CA:1456:G:N3	2.28	0.47
24:CY:253:HIS:H	24:CY:258:ILE:HD11	1.79	0.47
46:DN:57:ALA:CB	46:DN:124:ALA:HA	2.37	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2894:G:H2'	35:BA:2894:G:N3	2.30	0.47
24:CY:38:LEU:O	24:CY:40:ASN:ND2	2.47	0.47
60:DI:111:PRO:C	60:DI:113:ARG:N	2.68	0.47
35:DA:650:C:H3'	35:DA:651:G:C5'	2.40	0.47
5:CE:107:ARG:C	5:CE:109:ILE:N	2.68	0.47
58:BZ:117:LEU:N	58:BZ:117:LEU:HD23	2.23	0.47
1:CA:1188:A:H2'	1:CA:1189:C:H5'	1.95	0.47
7:CG:136:LYS:C	7:CG:138:LYS:N	2.67	0.47
22:AV:39:U:O2'	22:AV:40:C:H5'	2.13	0.47
50:DR:93:GLY:O	50:DR:117:VAL:HG21	2.15	0.47
50:DR:44:LEU:CD1	50:DR:48:VAL:HG23	2.45	0.47
50:DR:81:ASP:N	50:DR:81:ASP:OD2	2.42	0.47
1:AA:300:A:H2'	1:AA:301:G:O4'	2.14	0.47
35:BA:2051:A:H5'	35:BA:2578:G:O4'	2.15	0.47
27:B2:38:GLN:HB2	27:B2:44:LEU:HB2	1.97	0.47
3:AC:153:VAL:HA	3:AC:197:GLY:O	2.14	0.47
33:B8:15:LYS:N	48:BP:65:ARG:NH2	2.63	0.47
35:DA:953:A:C2'	35:DA:954:G:H5'	2.44	0.47
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.93	0.47
35:BA:2143:C:H2'	35:BA:2144:U:O4'	2.15	0.47
35:BA:999:U:H2'	35:BA:1000:A:H5'	1.96	0.47
35:BA:975(A):G:H1'	35:BA:990:A:C2	2.49	0.47
35:DA:320:A:C8	40:DF:136:THR:HG21	2.50	0.47
1:AA:1151:A:C4	1:AA:1152:A:N7	2.82	0.47
1:AA:473:G:OP1	16:AP:81:ARG:HB2	2.15	0.47
48:DP:75:ILE:HD12	48:DP:75:ILE:H	1.80	0.47
37:BC:178:ALA:HB1	37:BC:190:ARG:CB	2.45	0.47
22:CV:64:A:O2'	22:CV:65:G:H5'	2.14	0.47
35:BA:889:C:O2'	35:BA:890:A:O5'	2.29	0.47
47:DO:77:ILE:HD11	52:DT:72:VAL:HG13	1.96	0.47
50:BR:41:ALA:C	50:BR:43:GLU:N	2.67	0.47
1:CA:498:U:HO2'	1:CA:499:A:P	2.36	0.47
3:AC:164:ARG:CB	3:AC:164:ARG:NH1	2.78	0.47
12:CL:61:THR:C	12:CL:63:GLY:H	2.18	0.47
38:DD:211:ARG:O	38:DD:212:SER:C	2.53	0.47
35:DA:225:A:C2'	35:DA:226:G:H5'	2.44	0.47
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.48	0.47
40:BF:140:LEU:HD13	40:BF:170:LEU:HD21	1.96	0.47
1:AA:1017:G:H2'	1:AA:1018:C:H6	1.79	0.47
1:CA:677:U:H3	1:CA:713:G:H22	1.61	0.47
58:DZ:27:VAL:HG13	58:DZ:87:ASP:HB3	1.96	0.47
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:175:C:H2'	1:AA:176:C:H6	1.80	0.47
37:DC:47:LEU:HG	37:DC:48:GLY:N	2.30	0.47
25:D0:66:VAL:HG12	25:D0:67:VAL:N	2.29	0.47
46:BN:51:PHE:CZ	46:BN:119:ARG:HD2	2.49	0.47
4:AD:91:SER:O	4:AD:94:LEU:N	2.47	0.47
1:AA:889:A:H5'	1:AA:891:U:C1'	2.44	0.47
14:CN:36:PHE:HD1	14:CN:37:PHE:CD2	2.33	0.47
4:AD:100:ARG:CZ	4:AD:137:SER:HA	2.44	0.47
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.14	0.47
35:BA:1163:G:O2'	35:BA:1164:G:H5'	2.13	0.47
38:DD:76:PRO:HB2	38:DD:116:GLN:HE21	1.79	0.47
55:DW:62:HIS:O	55:DW:63:ASP:C	2.53	0.47
5:CE:78:HIS:HE1	5:CE:143:ARG:H	1.62	0.47
1:CA:1111:A:N1	3:CC:177:THR:HG23	2.29	0.47
35:DA:1181:C:O2'	35:DA:1182:A:H5'	2.14	0.47
35:BA:965:C:H6	35:BA:965:C:H5''	1.79	0.47
35:DA:2335:A:C8	35:DA:2337:G:C5	3.02	0.47
51:BS:95:HIS:CG	51:BS:96:GLY:N	2.82	0.47
33:D8:53:PRO:HA	33:D8:56:GLU:CB	2.42	0.47
33:D8:52:LYS:O	33:D8:55:ALA:HB3	2.14	0.47
35:BA:2757:A:N1	42:BH:67:LEU:HD13	2.29	0.47
33:B8:31:HIS:CG	33:B8:32:LEU:H	2.33	0.47
40:BF:9:ILE:HG12	40:BF:14:PRO:CA	2.43	0.47
33:B8:22:VAL:O	33:B8:49:VAL:HG23	2.15	0.47
28:D3:36:VAL:HG23	28:D3:36:VAL:O	2.15	0.47
4:AD:18:LYS:C	4:AD:19:LEU:HD12	2.35	0.47
41:DG:47:LYS:N	41:DG:51:ARG:HG3	2.29	0.47
41:BG:83:ARG:CD	41:BG:83:ARG:N	2.78	0.47
52:DT:81:PRO:O	52:DT:82:LEU:HG	2.14	0.47
35:BA:110:G:O2'	35:BA:111:A:H5'	2.14	0.47
42:BH:87:LEU:C	42:BH:88:LEU:HD22	2.35	0.47
31:B6:20:ASN:O	31:B6:21:TYR:CD1	2.67	0.47
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.13	0.47
53:BU:92:ARG:HD3	54:BV:11:GLN:CG	2.43	0.47
51:DS:16:ASN:C	51:DS:17:ARG:O	2.48	0.47
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.97	0.47
58:BZ:64:GLY:O	58:BZ:65:GLN:C	2.53	0.47
58:BZ:94:GLU:O	58:BZ:96:VAL:N	2.47	0.47
1:CA:360:A:O2'	1:CA:361:G:H5'	2.15	0.47
20:CT:49:ALA:O	20:CT:53:LEU:HD12	2.15	0.47
20:AT:100:ILE:HD12	20:AT:100:ILE:N	2.29	0.47
11:AK:43:SER:HB3	11:AK:68:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:482:A:N3	1:AA:482:A:H2'	2.30	0.47
1:AA:401:C:H2'	1:AA:402:G:H8	1.79	0.47
7:CG:15:ASP:CB	7:CG:20:ASP:H	2.27	0.47
41:DG:110:ALA:HA	41:DG:140:ILE:O	2.15	0.47
33:B8:24:ALA:O	33:B8:46:ARG:HA	2.14	0.47
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.95	0.47
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.14	0.47
23:AX:19:U:H2'	23:AX:20:U:C6	2.49	0.47
7:AG:136:LYS:C	7:AG:138:LYS:N	2.68	0.47
45:BK:57:ILE:HG13	45:BK:67:PHE:CB	2.45	0.47
13:CM:91:ARG:HB3	13:CM:98:VAL:HG22	1.95	0.47
1:CA:299:G:H2'	1:CA:300:A:H8	1.75	0.47
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.15	0.47
42:BH:76:VAL:C	42:BH:78:GLY:H	2.17	0.47
17:AQ:68:ARG:N	17:AQ:70:ARG:NH1	2.62	0.47
35:DA:2751:G:O2'	35:DA:2752:C:H5'	2.14	0.47
35:DA:1573:G:C2'	35:DA:1574:C:H5'	2.43	0.47
45:BK:100:THR:HG22	45:BK:139:VAL:HB	1.96	0.47
45:BK:98:ARG:CD	45:BK:139:VAL:HG22	2.40	0.47
1:CA:1059:C:O3'	14:CN:45:ARG:NH2	2.48	0.47
1:CA:865:A:H2'	1:CA:866:C:C6	2.49	0.47
42:BH:141:VAL:HG13	42:BH:142:GLY:N	2.28	0.47
6:AF:55:ASP:CB	6:AF:86:ARG:HH12	2.27	0.47
48:BP:135:LEU:CD1	48:BP:139:LYS:HD2	2.44	0.47
6:CF:94:GLN:O	6:CF:96:PRO:HD3	2.14	0.47
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.49	0.47
36:BB:60:C:C2	36:BB:61:G:C8	3.02	0.47
7:AG:147:ALA:C	7:AG:148:ASN:HD22	2.18	0.47
22:AW:29:G:H2'	22:AW:30:G:H8	1.79	0.47
22:CW:76:A:O2'	35:DA:2394:C:N3	2.41	0.47
35:DA:2839:G:H5'	50:DR:46:GLY:HA2	1.96	0.47
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.79	0.47
35:BA:1557:C:H2'	35:BA:1558:A:C2	2.49	0.47
24:CY:144:ALA:O	24:CY:147:GLN:CB	2.62	0.47
20:AT:37:SER:HB3	20:AT:84:LEU:CD2	2.45	0.47
6:AF:75:LEU:O	6:AF:75:LEU:HD23	2.14	0.47
44:BJ:96:UNK:C	44:BJ:132:UNK:CB	2.92	0.47
1:AA:40:C:H2'	1:AA:41:G:C8	2.48	0.47
35:BA:1464:C:O2'	35:BA:1528:A:H8	1.96	0.47
35:BA:826:U:H2'	35:BA:828:U:O4'	2.14	0.47
36:DB:40:U:H1'	36:DB:45:A:H62	1.77	0.47
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.30	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:42:GLU:C	6:CF:44:GLY:H	2.18	0.47
42:DH:47:GLU:HB2	42:DH:51:ARG:NH2	2.28	0.47
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.30	0.47
2:CB:138:LEU:O	2:CB:141:GLU:HB3	2.15	0.47
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.13	0.47
35:BA:2878:U:H2'	35:BA:2879:C:H5'	1.96	0.47
37:DC:20:TYR:O	37:DC:22:ILE:HG12	2.15	0.47
60:DI:14:ASP:O	60:DI:15:VAL:O	2.33	0.47
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.14	0.47
40:DF:198:ALA:C	40:DF:200:GLU:H	2.17	0.47
35:DA:1983:C:O2'	35:DA:1984:G:H5'	2.15	0.47
1:AA:1107:C:C4	1:AA:1108:G:N7	2.83	0.47
35:DA:803:U:C2'	35:DA:804:A:H5'	2.45	0.47
35:BA:2203:U:H2'	35:BA:2203:U:O2	2.15	0.47
1:CA:1107:C:C4	1:CA:1108:G:N7	2.82	0.47
35:DA:384:U:O2'	35:DA:385:C:H5'	2.14	0.47
27:B2:53:LEU:HD22	27:B2:53:LEU:O	2.14	0.47
27:D2:41:ILE:O	27:D2:41:ILE:HG13	2.15	0.47
35:DA:2581:G:N3	35:DA:2581:G:H2'	2.30	0.47
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.18	0.47
35:DA:1077:A:H2'	35:DA:1078:U:O4'	2.15	0.47
35:BA:2346:A:C2	35:BA:2383:G:C2	3.02	0.47
35:DA:481:G:H1'	35:DA:506:G:H21	1.80	0.47
58:BZ:152:ALA:HB1	58:BZ:167:PRO:O	2.15	0.47
30:B5:3:LYS:HD3	35:BA:2611:U:O2'	2.14	0.47
35:BA:479:A:H4'	35:BA:480:A:OP1	2.15	0.47
24:AY:66:GLU:C	24:AY:68:ASP:H	2.18	0.47
24:AY:64:SER:O	24:AY:68:ASP:HB2	2.14	0.47
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.45	0.47
41:BG:114:ILE:HG22	41:BG:116:ASP:C	2.35	0.47
41:BG:98:ARG:HE	41:BG:98:ARG:N	2.12	0.47
41:BG:161:THR:CG2	41:BG:162:THR:H	2.28	0.47
4:CD:14:ARG:HA	4:CD:39:PRO:CG	2.43	0.47
35:DA:2206:G:N2	35:DA:2207:G:C5'	2.70	0.47
35:DA:1493:C:H4'	35:DA:1494:A:OP2	2.15	0.47
35:DA:1495:A:H2'	35:DA:1496:A:C2	2.50	0.47
35:DA:271(M):G:H5''	60:DI:57:ARG:NH2	2.24	0.47
2:AB:70:PHE:CD2	2:AB:163:PHE:HB3	2.50	0.47
45:DK:95:LYS:H	45:DK:95:LYS:HD2	1.80	0.47
52:DT:12:SER:O	52:DT:13:ARG:NH1	2.48	0.47
9:CI:48:GLU:OE2	9:CI:51:ARG:HD2	2.15	0.47
9:CI:53:VAL:HG13	9:CI:95:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:CJ:6:ILE:O	10:CJ:6:ILE:HG13	2.15	0.47
35:BA:494:G:O2'	55:BW:5:ALA:O	2.26	0.47
31:D6:18:ARG:NH1	31:D6:43:CYS:HB2	2.29	0.47
2:CB:70:PHE:CD2	2:CB:163:PHE:HB3	2.50	0.47
51:DS:16:ASN:O	51:DS:19:LYS:HB3	2.15	0.47
51:DS:16:ASN:ND2	51:DS:92:TYR:CE1	2.83	0.47
1:AA:1125:U:H3	10:AJ:5:ARG:NH1	2.13	0.47
48:DP:57:THR:HG23	48:DP:59:LEU:CB	2.41	0.47
1:CA:960:U:O2'	1:CA:1223:C:H4'	2.14	0.47
45:BK:130:SER:O	45:BK:133:SER:HB2	2.14	0.47
52:BT:3:ARG:C	52:BT:5:ALA:H	2.16	0.47
46:BN:120:LEU:C	46:BN:120:LEU:HD13	2.34	0.47
46:BN:34:LEU:HD21	46:BN:120:LEU:HB2	1.96	0.47
1:CA:59:A:H1'	1:CA:354:G:N2	2.30	0.47
40:BF:65:TRP:HB3	40:BF:66:PRO:HD3	1.96	0.47
2:AB:204:ASN:HD21	2:AB:207:ALA:CB	2.27	0.47
52:DT:3:ARG:C	52:DT:5:ALA:H	2.18	0.47
1:CA:356:A:C2	1:CA:357:G:C1'	2.98	0.47
38:BD:35:LYS:CB	38:BD:36:PRO:HD3	2.45	0.47
39:BE:4:ILE:HG12	39:BE:28:ALA:HB1	1.95	0.47
20:AT:49:ALA:HB2	20:AT:99:LEU:HD12	1.95	0.47
35:DA:2401:U:H3'	35:DA:2402:C:C5'	2.37	0.47
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.76	0.47
22:CV:20:U:C3'	22:CV:21:A:C5'	2.84	0.47
1:AA:392:G:H2'	1:AA:393:A:C8	2.50	0.47
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.15	0.47
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.30	0.47
8:AH:10:LEU:CD2	8:AH:10:LEU:N	2.77	0.47
22:CV:72:C:H5'	22:CV:72:C:C6	2.42	0.47
35:BA:389:G:O6	48:BP:71:VAL:HG23	2.14	0.47
35:BA:390:A:N6	48:BP:71:VAL:CG2	2.78	0.47
41:DG:106:LEU:O	41:DG:110:ALA:HB3	2.14	0.47
1:AA:313:A:O2'	1:AA:314:C:H5'	2.14	0.47
35:DA:390:A:N6	48:DP:71:VAL:CG2	2.77	0.47
24:AY:177:TYR:O	24:AY:181:SER:HB3	2.15	0.47
8:CH:86:ILE:CG2	8:CH:87:SER:N	2.69	0.47
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.96	0.47
1:AA:194:C:C2'	1:AA:195:A:H5''	2.44	0.47
8:CH:14:ARG:HB3	8:CH:14:ARG:NH1	2.30	0.47
1:CA:1188:A:O2'	1:CA:1189:C:H5'	2.15	0.47
50:DR:84:ALA:N	50:DR:85:PRO:CD	2.77	0.47
35:DA:911:A:H2'	49:DQ:9:TYR:CZ	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:15:LYS:N	48:DP:65:ARG:NH2	2.63	0.47
35:BA:1979:C:O2'	35:BA:1980:G:H5'	2.15	0.47
47:BO:105:GLU:O	47:BO:109:LYS:HG2	2.13	0.47
47:BO:63:VAL:HB	47:BO:102:VAL:HG12	1.96	0.47
24:AY:188:ARG:HB2	24:AY:310:GLN:CG	2.43	0.47
30:D5:20:ARG:HB3	30:D5:23:HIS:HD2	1.80	0.47
35:BA:2729:G:H2'	35:BA:2730:C:C6	2.49	0.47
2:AB:82:ARG:O	2:AB:86:GLU:HG3	2.15	0.47
10:CJ:78:ASN:HD22	10:CJ:81:THR:CG2	2.27	0.47
50:BR:78:LYS:O	50:BR:82:GLU:HB3	2.15	0.47
7:AG:83:ALA:HB1	7:AG:85:TYR:CE2	2.50	0.47
47:BO:93:PRO:HD3	47:BO:114:ILE:CD1	2.43	0.47
24:AY:191:ARG:HE	24:AY:194:PRO:CD	2.28	0.47
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.13	0.47
1:CA:591:U:H2'	1:CA:592:G:C8	2.43	0.47
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.79	0.47
1:CA:1151:A:C4	1:CA:1152:A:N7	2.82	0.47
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.29	0.47
7:CG:147:ALA:C	7:CG:148:ASN:HD22	2.17	0.47
1:CA:833:U:H2'	1:CA:834:C:C5	2.50	0.47
4:AD:83:SER:C	4:AD:85:LYS:H	2.18	0.47
3:CC:183:ASP:HB3	3:CC:202:ILE:HB	1.97	0.47
1:AA:1441:G:H5''	1:AA:1442:G:O4'	2.15	0.47
1:CA:1244:C:H2'	1:CA:1245:A:H8	1.75	0.47
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.44	0.47
37:BC:43:VAL:CG2	37:BC:178:ALA:HB2	2.44	0.47
35:DA:1564:C:O2'	35:DA:1565:C:H5'	2.14	0.47
1:CA:1065:U:C5'	1:CA:1190:G:N2	2.77	0.47
52:DT:58:ASN:C	52:DT:58:ASN:HD22	2.16	0.47
17:AQ:57:VAL:CG2	17:AQ:73:VAL:HG13	2.45	0.47
6:CF:53:ALA:C	6:CF:55:ASP:H	2.18	0.47
3:AC:28:GLN:O	3:AC:29:TYR:C	2.53	0.47
52:BT:55:ASN:H	52:BT:59:THR:HB	1.79	0.47
1:AA:161:A:H2'	1:AA:162:A:H8	1.80	0.47
16:AP:45:THR:HG23	16:AP:48:TRP:HA	1.96	0.47
35:BA:230:U:O2'	35:BA:231:C:H5'	2.14	0.47
21:AU:12:LYS:O	21:AU:16:GLY:N	2.47	0.47
20:CT:37:SER:O	20:CT:41:ILE:HG12	2.15	0.47
18:CR:25:THR:O	18:CR:25:THR:HG22	2.15	0.47
3:AC:103:VAL:HG12	3:AC:103:VAL:O	2.15	0.47
1:AA:865:A:H5'	1:AA:1078:U:C4	2.50	0.47
35:DA:654(U):A:H2'	35:DA:654(V):A:C8	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:654:A:N1	35:DA:654(U):A:O2'	2.47	0.47
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.29	0.47
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.49	0.47
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.79	0.47
35:BA:2133:G:H1'	35:BA:2158:A:H61	1.79	0.47
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.15	0.47
35:BA:2503:A:H4'	35:BA:2504:U:OP1	2.15	0.47
30:B5:42:PRO:HB2	30:B5:43:HIS:HD2	1.79	0.47
44:BJ:119:UNK:O	44:BJ:120:UNK:CB	2.61	0.47
44:DJ:32:UNK:O	44:DJ:33:UNK:O	2.33	0.47
35:DA:2878:U:H2'	35:DA:2879:C:H5'	1.97	0.47
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.30	0.47
35:BA:1184:G:C6	35:BA:1185:C:C4	3.03	0.47
1:AA:1294:G:O2'	1:AA:1295:G:H5'	2.14	0.47
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.88	0.47
35:DA:712:G:O2'	35:DA:713:G:H5'	2.15	0.47
35:BA:2620:C:OP1	39:BE:152:LYS:O	2.32	0.47
22:CV:47:U:O2'	22:CV:48:C:P	2.72	0.47
30:B5:30:LEU:HD23	30:B5:41:PRO:HA	1.97	0.47
35:BA:712:G:O2'	35:BA:713:G:H5'	2.14	0.47
35:DA:979:G:H3'	35:DA:980:A:H5''	1.96	0.47
35:DA:341:G:O2'	35:DA:342:G:H5'	2.15	0.47
1:AA:61:G:O2'	1:AA:62:U:H5'	2.15	0.47
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.15	0.47
22:AV:47:U:O2'	22:AV:48:C:C5'	2.63	0.47
1:CA:764:C:H2'	1:CA:765:G:O4'	2.15	0.47
10:CJ:21:GLN:HG2	10:CJ:21:GLN:O	2.15	0.47
35:BA:239:U:H2'	35:BA:240:G:O4'	2.15	0.47
35:DA:1958:C:O2'	35:DA:1959:G:H5'	2.14	0.47
17:AQ:22:LEU:HD11	17:AQ:39:SER:HB2	1.96	0.47
26:B1:52:ARG:O	26:B1:56:GLN:O	2.33	0.47
36:BB:7:G:C3'	36:BB:8:U:C5'	2.91	0.47
33:B8:3:LYS:HE2	35:BA:242:G:O5'	2.15	0.47
13:AM:9:ILE:HD13	41:BG:146:TYR:CE2	2.50	0.47
52:BT:28:VAL:HG13	52:BT:46:GLU:CA	2.38	0.47
35:BA:1494:A:N3	35:BA:1494:A:H3'	2.30	0.47
55:DW:92:ARG:HG2	55:DW:92:ARG:NH1	2.30	0.47
40:DF:22:ALA:CA	40:DF:26:ALA:CB	2.91	0.47
1:AA:544:G:C6	1:AA:545:C:C4	3.03	0.47
4:AD:14:ARG:HD2	4:AD:59:ARG:NH1	2.30	0.47
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.50	0.47
41:DG:44:GLY:C	41:DG:46:ALA:H	2.18	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:76:SER:O	41:DG:83:ARG:HB3	2.15	0.47
24:CY:22:LYS:HA	24:CY:25:ARG:CG	2.45	0.47
52:DT:82:LEU:C	52:DT:84:GLN:H	2.18	0.47
24:AY:31:ARG:CB	24:AY:32:ARG:HE	2.28	0.47
42:DH:92:ILE:C	42:DH:94:TYR:H	2.18	0.47
24:CY:33:LEU:HD21	35:DA:1095:A:H61	1.78	0.47
31:B6:40:CYS:SG	31:B6:45:LYS:NZ	2.87	0.47
35:BA:2126:A:H1'	35:BA:2127:G:O4'	2.15	0.47
35:DA:84:A:H5''	57:DY:9:LYS:HE3	1.96	0.47
58:DZ:128:VAL:CG2	58:DZ:129:SER:N	2.78	0.47
27:D2:3:LEU:HD22	27:D2:7:ARG:HH21	1.78	0.47
35:BA:1062:G:H2'	35:BA:1063:G:H8	1.79	0.47
6:AF:26:ILE:O	6:AF:30:LEU:HG	2.15	0.47
2:CB:214:ILE:O	2:CB:218:ALA:CB	2.63	0.47
52:DT:106:SER:O	52:DT:107:ASP:OD1	2.33	0.47
40:BF:110:LEU:O	40:BF:113:ALA:N	2.48	0.47
35:BA:2401:U:H3'	35:BA:2402:C:C5'	2.37	0.47
39:DE:47:VAL:HG12	39:DE:49:LEU:CD1	2.38	0.47
7:AG:15:ASP:O	7:AG:19:GLY:HA2	2.15	0.47
39:BE:61:ARG:HB3	39:BE:62:PRO:HD3	1.97	0.47
5:CE:146:ALA:C	5:CE:148:VAL:H	2.18	0.47
43:BI:4:ILE:HD11	43:BI:47:LEU:HD11	1.96	0.47
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.82	0.47
4:AD:162:LEU:CD1	4:AD:181:MET:HG2	2.45	0.47
48:DP:125:VAL:HG22	48:DP:125:VAL:O	2.15	0.47
48:BP:85:LEU:HD23	48:BP:88:LEU:HD23	1.96	0.47
1:CA:722:A:H4'	1:CA:723:U:C4	2.50	0.47
51:BS:34:HIS:ND1	51:BS:54:LEU:HB2	2.30	0.47
49:BQ:43:THR:OG1	49:BQ:46:GLN:CG	2.61	0.47
50:DR:66:VAL:HG11	50:DR:79:LEU:CD1	2.45	0.47
24:AY:142:ARG:O	24:AY:145:GLU:HB3	2.14	0.47
38:DD:237:GLU:OE2	38:DD:237:GLU:O	2.32	0.47
3:CC:154:SER:OG	3:CC:197:GLY:N	2.48	0.47
1:AA:729:A:H2'	1:AA:730:G:H8	1.79	0.47
55:BW:18:ARG:HG2	55:BW:76:VAL:HG13	1.96	0.47
3:CC:6:HIS:HB2	14:CN:49:HIS:CD2	2.50	0.47
35:DA:797:C:OP2	40:DF:62:ARG:HG3	2.15	0.47
7:CG:83:ALA:HB1	7:CG:85:TYR:CE2	2.50	0.47
15:CO:63:ARG:NH1	15:CO:87:ILE:HD13	2.30	0.47
8:AH:98:LYS:H	8:AH:98:LYS:HG3	1.52	0.47
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	1.96	0.47
8:CH:97:VAL:O	8:CH:100:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:101:ARG:HD3	39:DE:169:ASN:HD21	1.79	0.47
1:CA:1123:A:C4'	10:CJ:36:GLY:HA3	2.43	0.47
4:AD:83:SER:HA	4:AD:89:THR:HG23	1.95	0.47
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.79	0.47
1:CA:511:C:H1'	4:CD:43:HIS:HE2	1.80	0.47
45:DK:73:PRO:C	45:DK:75:SER:H	2.18	0.47
4:AD:58:LEU:HD23	4:AD:206:PHE:CZ	2.50	0.47
35:DA:2352:A:N6	35:DA:2365:G:O2'	2.48	0.47
18:CR:44:LEU:HD21	18:CR:50:ILE:HD13	1.97	0.47
35:DA:80:G:C2'	35:DA:81:G:H5'	2.45	0.47
33:B8:39:LYS:O	33:B8:43:GLN:HB2	2.14	0.47
35:DA:2223:G:H2'	35:DA:2224:G:C5'	2.45	0.47
17:AQ:45:HIS:O	17:AQ:46:ASP:HB2	2.14	0.47
35:BA:2847:U:OP1	52:BT:98:LYS:HD3	2.15	0.47
35:DA:958:U:H6	35:DA:958:U:H3'	1.79	0.47
4:CD:180:GLY:O	4:CD:181:MET:C	2.53	0.47
44:BJ:130:UNK:O	44:BJ:132:UNK:N	2.48	0.47
35:BA:1045:A:N3	35:BA:1047:G:N2	2.63	0.47
35:DA:290:G:C2'	35:DA:291:C:H5'	2.44	0.47
35:DA:556:G:H2'	35:DA:557:U:C6	2.50	0.47
35:BA:2012:G:O3'	55:BW:96:ILE:HG13	2.15	0.47
39:DE:39:PRO:HA	39:DE:43:GLY:CA	2.45	0.47
16:CP:58:TYR:CD1	16:CP:59:TRP:N	2.82	0.47
35:BA:221:A:O2'	35:BA:222:A:OP2	2.31	0.47
37:DC:75:LEU:HD23	37:DC:75:LEU:O	2.14	0.47
1:CA:152:A:H62	1:CA:169:C:N4	2.13	0.47
38:DD:197:GLY:O	38:DD:198:ASN:C	2.53	0.47
18:CR:36:ASN:HB3	18:CR:39:VAL:HG23	1.97	0.47
9:CI:111:ARG:HD2	14:CN:61:TRP:OXT	2.15	0.47
24:AY:346:TRP:HA	24:AY:346:TRP:HE3	1.80	0.47
1:AA:1366:C:O2'	1:AA:1367:C:H5'	2.14	0.47
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.14	0.47
1:AA:447:G:C6	1:AA:485:G:H1'	2.50	0.47
40:DF:114:VAL:HG21	40:DF:202:PHE:CZ	2.50	0.47
11:AK:70:LYS:HA	11:AK:73:MET:CG	2.45	0.47
1:AA:593:G:O2'	1:AA:594:G:H5'	2.15	0.47
13:CM:10:PRO:HB2	13:CM:18:ALA:HB1	1.96	0.47
41:DG:122:PRO:HG2	41:DG:123:ASN:OD1	2.15	0.47
1:AA:802:A:H2'	1:AA:803:G:O4'	2.14	0.47
58:BZ:54:HIS:HE1	58:BZ:123:ASP:OD2	1.98	0.47
33:B8:63:PRO:O	33:B8:64:TYR:O	2.33	0.47
27:D2:68:ARG:HA	27:D2:72:ALA:CB	2.23	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2289:G:H1'	35:BA:2346:A:C2	2.48	0.47
48:BP:27:HIS:ND1	48:BP:28:GLY:N	2.62	0.47
48:DP:23:PRO:O	48:DP:29:LYS:O	2.33	0.47
35:BA:747:U:O2	35:BA:2014:A:H1'	2.15	0.47
35:DA:449:A:H4'	53:DU:3:ARG:NH1	2.30	0.47
35:BA:2306:C:C5	35:BA:2307:G:H1'	2.49	0.47
41:BG:128:ARG:O	41:BG:130:ASN:N	2.46	0.47
35:DA:361:G:C2	35:DA:362:U:O2	2.68	0.47
57:BY:39:VAL:CG1	57:BY:40:GLU:N	2.73	0.47
41:DG:102:PHE:C	41:DG:102:PHE:CD1	2.89	0.47
5:AE:139:LEU:C	5:AE:141:GLN:H	2.18	0.47
52:DT:36:GLU:HG2	52:DT:36:GLU:O	2.15	0.47
36:BB:82:G:H2'	36:BB:83:G:H8	1.79	0.47
9:AI:53:VAL:HG13	9:AI:95:LYS:NZ	2.29	0.47
6:CF:26:ILE:O	6:CF:30:LEU:HG	2.15	0.47
1:CA:332:G:O2'	1:CA:333:G:H5'	2.15	0.47
1:AA:1412:C:N4	1:AA:1488:G:H1	2.11	0.47
22:AW:48:C:H2'	22:AW:59:U:O2'	2.15	0.47
52:BT:78:LEU:HD22	52:BT:79:HIS:CE1	2.50	0.47
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.67	0.47
1:AA:1316:G:N1	1:AA:1319:A:OP2	2.45	0.47
46:DN:57:ALA:O	46:DN:58:ASP:O	2.33	0.47
7:CG:46:ALA:O	7:CG:49:ILE:N	2.48	0.47
4:AD:150:GLU:HA	4:AD:153:ARG:CG	2.40	0.47
35:DA:1106:G:H2'	35:DA:1107:G:C8	2.50	0.47
57:DY:48:ALA:C	57:DY:49:VAL:HG22	2.35	0.47
13:AM:117:VAL:CG1	13:AM:118:ALA:N	2.77	0.47
8:CH:86:ILE:O	8:CH:88:LYS:HG3	2.15	0.47
1:CA:1054:C:O2'	1:CA:1055:A:C5'	2.60	0.47
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.15	0.47
26:B1:18:ILE:HG22	26:B1:20:ARG:HG3	1.96	0.47
35:BA:2262:U:H2'	35:BA:2263:C:H6	1.79	0.47
35:DA:1403:C:H5''	35:DA:1471:A:C1'	2.43	0.47
19:AS:49:ILE:HD12	19:AS:49:ILE:N	2.30	0.47
45:DK:123:ALA:O	45:DK:127:ILE:HG12	2.15	0.47
1:AA:630:G:C2'	1:AA:631:G:H5''	2.41	0.47
60:DI:138:ILE:HG22	60:DI:139:GLN:N	2.29	0.47
22:AV:68:C:C2'	22:AV:69:G:C5'	2.89	0.47
15:AO:63:ARG:NH1	15:AO:87:ILE:HD13	2.29	0.47
6:AF:62:TRP:HH2	6:AF:64:GLN:HE21	1.62	0.47
48:DP:6:LEU:H	48:DP:6:LEU:CD2	2.27	0.47
20:CT:13:LEU:CD1	20:CT:13:LEU:C	2.82	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:51:VAL:HG11	8:AH:60:ARG:NH1	2.28	0.47
1:CA:1529:G:H4'	1:CA:1530:G:OP2	2.14	0.47
7:CG:75:VAL:HG13	7:CG:145:ALA:HB2	1.97	0.47
8:CH:20:TYR:HE2	8:CH:75:ARG:HB3	1.80	0.47
36:DB:60:C:C2	36:DB:61:G:C8	3.02	0.47
7:AG:144:MET:O	7:AG:147:ALA:HB3	2.15	0.47
7:CG:32:ARG:NH1	7:CG:32:ARG:HG2	2.25	0.47
41:BG:105:LYS:NZ	41:BG:143:GLU:HG3	2.29	0.47
35:BA:1651:G:OP1	50:BR:37:THR:HG21	2.15	0.47
5:CE:13:ILE:N	5:CE:13:ILE:HD12	2.30	0.47
35:DA:635:C:O2'	35:DA:639:U:OP1	2.33	0.47
35:BA:2553:G:H2'	35:BA:2554:U:C4'	2.45	0.47
3:CC:156:ARG:O	3:CC:159:GLY:N	2.42	0.47
1:CA:269:C:H2'	1:CA:270:A:C8	2.50	0.47
13:AM:56:LEU:HD13	13:AM:56:LEU:O	2.15	0.47
35:DA:1146:C:O2'	35:DA:1147:C:H5'	2.14	0.47
46:BN:93:THR:HG23	46:BN:94:HIS:N	2.30	0.47
35:DA:1544:A:H2	35:DA:1545:A:C2	2.32	0.47
6:AF:44:GLY:O	6:AF:46:ARG:HG3	2.14	0.47
1:AA:895:G:H2'	1:AA:896:C:H6	1.79	0.47
25:B0:25:ARG:HA	25:B0:29:GLN:HE22	1.79	0.47
4:AD:91:SER:O	4:AD:94:LEU:HB2	2.14	0.47
35:DA:2777:G:C4'	35:DA:2778:A:H5'	2.45	0.47
35:DA:2203:U:H2'	35:DA:2203:U:O2	2.14	0.47
44:DJ:119:UNK:O	44:DJ:120:UNK:CB	2.63	0.47
35:BA:244:A:C2	35:BA:255:A:C4	3.02	0.47
1:CA:1256:A:H5'	1:CA:1257:U:OP1	2.15	0.47
36:BB:42:C:C6	41:BG:69:ALA:HB2	2.50	0.47
35:BA:1939:U:OP1	35:BA:2604:U:O2'	2.31	0.47
1:CA:285:G:O2'	1:CA:286:G:H5'	2.15	0.47
2:CB:193:ASP:O	2:CB:193:ASP:OD2	2.33	0.47
6:AF:36:ARG:HH11	6:AF:36:ARG:HB3	1.80	0.47
14:CN:44:LEU:C	14:CN:44:LEU:HD23	2.36	0.47
26:B1:77:ALA:O	26:B1:80:LEU:HB3	2.15	0.47
33:B8:4:MET:HE1	35:BA:593:G:C4'	2.45	0.47
31:B6:32:ASN:O	31:B6:33:LYS:HG2	2.15	0.47
52:BT:27:THR:HA	52:BT:87:ASP:HB2	1.97	0.47
48:BP:32:THR:OG1	48:BP:33:ARG:N	2.48	0.47
48:DP:26:GLY:HA2	48:DP:30:THR:HG21	1.97	0.47
30:D5:3:LYS:HD3	35:DA:2611:U:O2'	2.14	0.47
40:DF:11:VAL:HG12	40:DF:12:LEU:N	2.29	0.47
41:BG:161:THR:HG22	41:BG:163:ALA:H	1.80	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B2:66:GLU:HG3	27:B2:67:LYS:N	2.30	0.47
4:CD:18:LYS:C	4:CD:19:LEU:HD12	2.35	0.47
24:AY:22:LYS:O	24:AY:25:ARG:HB2	2.15	0.47
2:AB:178:ARG:NH2	8:AH:74:PRO:HG3	2.29	0.47
40:BF:83:PHE:O	40:BF:84:VAL:HB	2.14	0.47
42:BH:106:THR:O	42:BH:107:VAL:HG13	2.15	0.47
35:BA:1173:G:C3'	35:BA:1174:A:C5'	2.88	0.47
9:CI:5:TYR:CD2	9:CI:17:VAL:O	2.68	0.47
9:CI:81:ILE:O	9:CI:85:LEU:HG	2.14	0.47
31:B6:15:GLU:CG	31:B6:18:ARG:HG3	2.45	0.47
35:DA:784:A:C5'	38:DD:227:ASN:ND2	2.69	0.47
8:AH:120:THR:O	8:AH:121:ASP:C	2.53	0.47
54:DV:19:LYS:HG3	54:DV:20:LEU:H	1.75	0.47
24:AY:222:LEU:HD12	24:AY:226:GLU:HB3	1.97	0.47
51:DS:90:GLY:O	51:DS:92:TYR:CD1	2.68	0.47
7:CG:50:ILE:O	7:CG:54:THR:HG22	2.14	0.47
50:BR:33:ARG:HB3	50:BR:113:LEU:HD11	1.97	0.47
46:BN:28:THR:O	46:BN:31:ALA:HB3	2.15	0.47
1:CA:321:A:N6	1:CA:332:G:H1	2.13	0.47
59:D4:51:TYR:CE2	41:DG:2:PRO:HD3	2.49	0.47
2:CB:58:ILE:O	2:CB:62:ALA:HB2	2.14	0.47
58:BZ:56:VAL:HG13	58:BZ:91:LEU:HD12	1.97	0.47
51:DS:48:LEU:HD23	51:DS:82:ILE:HD11	1.96	0.47
3:AC:79:ARG:HG2	3:AC:82:GLU:OE1	2.14	0.47
12:CL:55:VAL:HG13	12:CL:68:ALA:O	2.14	0.47
1:CA:482:A:N3	1:CA:482:A:H2'	2.29	0.47
24:CY:38:LEU:N	24:CY:38:LEU:HD12	2.29	0.47
6:AF:34:GLY:O	6:AF:67:MET:HB2	2.13	0.47
8:CH:86:ILE:HG22	8:CH:87:SER:H	1.74	0.47
35:BA:2020:A:OP1	53:BU:26:GLY:HA3	2.15	0.47
16:CP:47:ASP:C	16:CP:49:LEU:H	2.18	0.47
1:CA:1053:G:N7	1:CA:1199:U:H3'	2.30	0.47
1:AA:1013:G:N2	1:AA:1016:A:OP2	2.48	0.47
47:DO:102:VAL:HG23	47:DO:121:VAL:HA	1.97	0.47
35:BA:320:A:C8	40:BF:136:THR:HG21	2.50	0.47
11:CK:33:THR:HG22	11:CK:39:PRO:CA	2.43	0.47
3:CC:84:ILE:HD11	3:CC:88:ARG:NH2	2.30	0.47
8:AH:97:VAL:O	8:AH:100:ILE:HG13	2.14	0.47
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.15	0.47
10:AJ:78:ASN:HB2	10:AJ:81:THR:CG2	2.44	0.47
1:CA:782:A:H4'	1:CA:1514:C:O2'	2.15	0.47
35:BA:990:A:N6	35:BA:1186:G:H1'	2.30	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:8:PRO:HB3	38:DD:14:ARG:HB2	1.95	0.47
35:DA:321:G:N3	40:DF:165:ARG:NH1	2.63	0.47
35:DA:2862:G:H2'	35:DA:2863:C:H6	1.80	0.47
2:AB:67:THR:CG2	2:AB:155:LEU:HG	2.45	0.47
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.49	0.47
35:BA:2839:G:C5'	50:BR:46:GLY:HA2	2.45	0.47
1:CA:1255:G:H3'	1:CA:1279:A:N6	2.29	0.47
15:AO:36:ILE:HG22	15:AO:37:ASN:ND2	2.29	0.47
35:BA:2367:G:H2'	35:BA:2368:C:C6	2.48	0.47
49:BQ:60:ARG:NH1	49:BQ:60:ARG:CB	2.77	0.47
17:CQ:76:LEU:CG	17:CQ:77:VAL:H	2.26	0.47
1:AA:499:A:H4'	1:AA:500:G:H5'	1.96	0.47
57:DY:12:THR:O	57:DY:75:ILE:HG22	2.15	0.47
50:DR:41:ALA:C	50:DR:43:GLU:N	2.68	0.47
48:BP:13:ASN:N	48:BP:13:ASN:ND2	2.63	0.47
19:CS:58:VAL:HG21	19:CS:75:ALA:CB	2.45	0.47
27:B2:21:LEU:O	27:B2:22:GLU:C	2.53	0.47
16:CP:58:TYR:CD1	16:CP:58:TYR:C	2.88	0.47
46:DN:26:LEU:O	46:DN:30:ILE:HG13	2.15	0.47
38:BD:76:PRO:HB2	38:BD:116:GLN:HE21	1.80	0.47
11:CK:126:ARG:O	11:CK:127:LYS:C	2.52	0.47
1:CA:660:G:H2'	1:CA:661:G:O4'	2.15	0.47
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.52	0.47
35:BA:1417:C:H2'	35:BA:1418:G:O4'	2.15	0.47
35:BA:2009:G:H5'	55:BW:40:ASN:ND2	2.30	0.47
40:DF:198:ALA:C	40:DF:200:GLU:N	2.67	0.47
39:DE:198:VAL:HG12	39:DE:199:ARG:N	2.30	0.47
40:BF:121:GLY:O	40:BF:123:LEU:N	2.48	0.47
1:AA:650:G:O2'	1:AA:651:C:H5'	2.14	0.47
35:BA:1642:G:O2'	35:BA:1643:G:H5'	2.15	0.47
35:BA:2057:A:H2'	35:BA:2058:A:O4'	2.15	0.47
1:AA:135:C:H2'	1:AA:136:C:H5'	1.97	0.47
56:DX:41:ASN:N	56:DX:41:ASN:HD22	2.12	0.47
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.50	0.47
35:BA:524:U:H4'	35:BA:555:U:H4'	1.97	0.47
35:BA:2757:A:H2'	35:BA:2758:A:H5'	1.97	0.46
35:BA:590:A:OP1	40:BF:95:ARG:NH1	2.47	0.46
31:B6:51:GLU:O	31:B6:52:VAL:CB	2.63	0.46
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.68	0.46
30:B5:2:ALA:N	35:BA:747:U:N3	2.63	0.46
41:BG:137:GLU:CA	41:BG:152:LEU:HD11	2.25	0.46
40:DF:24:LEU:C	40:DF:26:ALA:N	2.67	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:64:SER:O	24:AY:91:LEU:HD13	2.15	0.46
58:BZ:109:ALA:O	58:BZ:110:GLY:C	2.53	0.46
52:DT:120:ARG:O	52:DT:124:ASP:OD1	2.33	0.46
1:CA:428:G:HO2'	1:CA:429:U:P	2.38	0.46
28:B3:36:VAL:HG23	28:B3:36:VAL:O	2.15	0.46
35:DA:995:C:C5	53:DU:57:PHE:HE1	2.33	0.46
35:DA:2289:G:H1'	35:DA:2346:A:C2	2.50	0.46
35:BA:361:G:C2	35:BA:362:U:O2	2.68	0.46
35:DA:275:G:C6	35:DA:362:U:H5	2.33	0.46
31:D6:20:ASN:O	31:D6:21:TYR:CD1	2.68	0.46
35:DA:1826:G:H2'	35:DA:1827:C:C6	2.50	0.46
53:BU:62:ILE:HD12	53:BU:76:TYR:CZ	2.50	0.46
53:BU:88:ILE:CG1	53:BU:88:ILE:O	2.61	0.46
35:BA:1778:U:H2'	35:BA:1784:A:N6	2.30	0.46
35:BA:783:A:H2'	35:BA:784:A:O5'	2.14	0.46
1:CA:954:G:O3'	13:CM:120:LYS:HD3	2.15	0.46
57:DY:26:LYS:O	57:DY:28:LYS:HE3	2.15	0.46
50:BR:32:GLY:C	50:BR:33:ARG:HD2	2.35	0.46
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	2.29	0.46
35:DA:1115:G:H2'	35:DA:1116:C:C1'	2.45	0.46
32:D7:46:VAL:HG12	32:D7:48:LYS:HZ3	1.80	0.46
3:CC:72:LYS:HG2	3:CC:75:VAL:HG23	1.97	0.46
35:DA:2376:A:H1'	51:DS:108:GLY:O	2.16	0.46
35:DA:34:C:C2'	35:DA:35:G:H5'	2.46	0.46
39:DE:61:ARG:CB	39:DE:62:PRO:CD	2.93	0.46
34:B9:17:ILE:HG13	34:B9:26:ILE:HD11	1.97	0.46
24:CY:224:PRO:O	24:CY:227:LEU:HD12	2.14	0.46
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.97	0.46
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.96	0.46
28:B3:52:HIS:CD2	28:B3:52:HIS:H	2.32	0.46
5:CE:36:ASP:OD1	5:CE:38:GLN:HB2	2.15	0.46
5:AE:48:ALA:C	5:AE:50:GLU:H	2.18	0.46
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.83	0.46
51:DS:58:LEU:HD21	51:DS:68:GLN:HB2	1.97	0.46
45:BK:55:VAL:HG22	45:BK:57:ILE:HD11	1.97	0.46
24:AY:198:SER:O	24:AY:199:GLY:C	2.54	0.46
50:DR:95:THR:CA	50:DR:117:VAL:HG23	2.45	0.46
50:DR:77:ARG:O	50:DR:78:LYS:C	2.53	0.46
42:DH:16:SER:O	42:DH:26:VAL:HA	2.15	0.46
1:CA:16:A:C2'	1:CA:17:U:H5'	2.45	0.46
35:DA:2415:G:H2'	35:DA:2416:C:C6	2.50	0.46
48:BP:65:ARG:O	48:BP:68:GLN:HB3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:100:ILE:HG23	8:AH:101:PRO:HD2	1.98	0.46
1:AA:1457:G:O2'	1:AA:1458:G:H5'	2.14	0.46
25:B0:43:THR:CG2	35:BA:2336:A:H61	2.28	0.46
35:DA:2654:A:O2'	35:DA:2655:G:H4'	2.15	0.46
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.50	0.46
11:CK:108:ILE:O	18:CR:87:ARG:N	2.46	0.46
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.15	0.46
35:BA:658:C:H2'	35:BA:659:C:C6	2.49	0.46
53:BU:9:VAL:O	53:BU:12:ARG:HB2	2.15	0.46
60:DI:114:LEU:O	60:DI:116:LEU:N	2.48	0.46
10:AJ:9:ARG:NH2	10:AJ:95:GLU:HG2	2.30	0.46
1:AA:453:A:H4'	16:AP:72:ARG:HG3	1.98	0.46
35:BA:556:G:H2'	35:BA:557:U:C6	2.49	0.46
35:DA:1045:A:N3	35:DA:1047:G:N2	2.63	0.46
1:AA:152:A:H62	1:AA:169:C:N4	2.13	0.46
35:BA:2362:G:C2'	35:BA:2363:C:H5'	2.45	0.46
44:BJ:32:UNK:O	44:BJ:33:UNK:O	2.32	0.46
4:CD:208:SER:O	4:CD:209:ARG:C	2.52	0.46
1:AA:245:C:C2'	1:AA:246:A:H5'	2.46	0.46
1:AA:658:G:OP1	15:AO:31:LEU:HD21	2.15	0.46
47:DO:26:LYS:HB3	47:DO:27:GLY:H	1.51	0.46
55:DW:26:GLY:HA2	55:DW:71:VAL:O	2.14	0.46
35:DA:1417:C:C2'	35:DA:1418:G:H5'	2.44	0.46
35:DA:1234:U:H2'	35:DA:1235:G:O4'	2.15	0.46
35:BA:648:G:O2'	35:BA:649:G:H5'	2.14	0.46
7:CG:109:ASN:C	7:CG:111:ARG:H	2.19	0.46
1:AA:1194:U:H5''	5:AE:22:GLY:O	2.15	0.46
24:AY:266:ARG:HG2	35:BA:2602:A:C4	2.50	0.46
1:CA:584:G:H2'	1:CA:585:G:C8	2.50	0.46
39:DE:147:PRO:HB2	39:DE:149:ARG:HG2	1.97	0.46
38:DD:94:LEU:HD22	38:DD:94:LEU:C	2.36	0.46
52:DT:26:ASP:C	52:DT:26:ASP:OD2	2.54	0.46
1:AA:1076:C:N3	1:AA:1082:G:C2	2.83	0.46
35:BA:2063:C:O2	35:BA:2450:A:N1	2.47	0.46
7:AG:7:ALA:O	7:AG:8:GLU:HG3	2.15	0.46
1:CA:93:G:O2'	1:CA:96:U:H5'	2.15	0.46
1:CA:794:A:H2'	1:CA:795:C:C6	2.50	0.46
51:DS:35:ILE:HG23	51:DS:69:VAL:HG11	1.97	0.46
57:DY:77:PRO:O	57:DY:78:ALA:CB	2.63	0.46
35:BA:271(R):G:H2'	35:BA:271(S):G:C8	2.50	0.46
52:BT:29:ARG:NH1	52:BT:46:GLU:OE1	2.46	0.46
35:BA:1495:A:H2'	35:BA:1496:A:C2	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:194:PRO:O	2:CB:197:VAL:HG23	2.15	0.46
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.29	0.46
35:BA:598:G:H2'	35:BA:599:G:O4'	2.15	0.46
35:DA:2302:G:H2'	35:DA:2303:G:H5'	1.98	0.46
30:D5:2:ALA:N	35:DA:747:U:N3	2.63	0.46
24:AY:100:GLU:O	24:AY:104:GLN:HG2	2.14	0.46
1:AA:542:G:P	4:AD:10:ARG:HH21	2.38	0.46
4:AD:17:VAL:CG1	4:AD:18:LYS:N	2.78	0.46
4:AD:52:SER:O	4:AD:53:ASP:C	2.53	0.46
41:BG:114:ILE:O	41:BG:115:ARG:C	2.54	0.46
41:BG:39:ILE:O	41:BG:39:ILE:HD12	2.15	0.46
41:BG:72:ARG:HB3	41:BG:85:GLY:O	2.15	0.46
52:DT:27:THR:HA	52:DT:87:ASP:HB2	1.97	0.46
45:BK:17:ALA:O	45:BK:18:THR:CB	2.62	0.46
50:DR:10:LEU:HD22	50:DR:17:ARG:CD	2.45	0.46
53:DU:88:ILE:C	53:DU:90:VAL:N	2.67	0.46
53:DU:92:ARG:NH1	54:DV:11:GLN:N	2.60	0.46
56:DX:27:THR:CB	56:DX:80:ILE:HG22	2.46	0.46
57:BY:10:GLY:O	57:BY:27:VAL:HG22	2.16	0.46
9:CI:97:LYS:O	9:CI:100:GLY:N	2.46	0.46
35:DA:494:G:H8	35:DA:494:G:C5'	2.25	0.46
45:DK:13:PRO:HA	45:DK:51:ALA:O	2.16	0.46
31:B6:13:CYS:HB3	31:B6:49:HIS:HB3	1.96	0.46
53:BU:91:ASP:O	53:BU:92:ARG:O	2.33	0.46
8:CH:121:ASP:N	8:CH:121:ASP:OD1	2.48	0.46
51:DS:91:PRO:O	51:DS:93:LYS:N	2.48	0.46
52:BT:36:GLU:HG2	52:BT:36:GLU:O	2.16	0.46
7:CG:28:ASN:O	7:CG:31:MET:HB3	2.16	0.46
43:BI:19:VAL:HG22	43:BI:20:ASP:N	2.30	0.46
2:AB:80:ILE:HD12	2:AB:208:ILE:HG23	1.98	0.46
36:DB:95:C:H2'	36:DB:96:U:O4'	2.15	0.46
48:BP:48:PRO:CD	48:BP:49:ARG:H	2.23	0.46
42:BH:30:LYS:HE2	42:BH:79:VAL:HA	1.97	0.46
39:BE:3:GLY:HA3	39:BE:81:ILE:CG2	2.41	0.46
38:DD:35:LYS:HE2	38:DD:104:TYR:CD1	2.51	0.46
39:DE:44:TYR:O	39:DE:45:THR:HB	2.15	0.46
39:DE:69:LYS:HD3	39:DE:89:ASP:OD1	2.15	0.46
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.22	0.46
39:DE:27:LEU:HD13	39:DE:181:LEU:HD12	1.96	0.46
58:DZ:35:ARG:NH1	58:DZ:35:ARG:CG	2.76	0.46
35:BA:2632:A:O2'	39:BE:61:ARG:NH2	2.49	0.46
35:BA:2808:U:H2'	35:BA:2809:A:H5'	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:139:LEU:C	5:CE:141:GLN:H	2.18	0.46
41:DG:114:ILE:O	41:DG:115:ARG:C	2.54	0.46
35:DA:1107:G:N2	35:DA:1108:U:O4	2.48	0.46
8:CH:10:LEU:CD2	8:CH:10:LEU:N	2.77	0.46
1:AA:1427:U:O2'	1:AA:1428:A:H5'	2.15	0.46
48:BP:89:ALA:O	48:BP:91:PHE:O	2.33	0.46
35:DA:39:C:O2'	35:DA:40:C:H5'	2.15	0.46
1:CA:194:C:C2'	1:CA:195:A:H5''	2.45	0.46
51:BS:59:LYS:NZ	51:BS:68:GLN:HE22	2.13	0.46
34:D9:8:LYS:O	34:D9:34:GLN:OE1	2.34	0.46
14:CN:41:ARG:HH11	14:CN:41:ARG:HG2	1.80	0.46
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	2.15	0.46
27:D2:16:LEU:O	27:D2:20:GLU:HB3	2.16	0.46
42:DH:76:VAL:C	42:DH:78:GLY:H	2.19	0.46
47:BO:9:GLU:O	47:BO:83:ALA:HA	2.16	0.46
47:DO:9:GLU:O	47:DO:83:ALA:HA	2.15	0.46
1:CA:715:A:H2'	1:CA:716:A:C8	2.49	0.46
11:CK:48:ILE:HD13	11:CK:48:ILE:N	2.30	0.46
2:AB:79:ASP:HA	2:AB:82:ARG:HG2	1.97	0.46
39:DE:116:VAL:HG22	39:DE:122:PHE:HB2	1.98	0.46
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.63	0.46
35:DA:2481:G:HO2'	35:DA:2482:G:P	2.38	0.46
24:AY:332:ASP:OD2	24:AY:335:ASN:HB2	2.16	0.46
39:DE:70:ALA:O	39:DE:71:GLY:C	2.53	0.46
18:AR:70:ILE:HG23	18:AR:79:LEU:HD13	1.98	0.46
3:AC:28:GLN:O	3:AC:30:ARG:N	2.48	0.46
1:CA:39:G:O2'	1:CA:40:C:H5'	2.15	0.46
35:BA:1571:A:H2'	35:BA:1572:A:C8	2.51	0.46
4:AD:64:LEU:HD11	4:AD:97:LEU:HD13	1.97	0.46
24:CY:188:ARG:O	24:CY:314:TYR:HD1	1.98	0.46
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.30	0.46
35:BA:2195:C:H2'	35:BA:2196:C:H6	1.79	0.46
22:CV:74:C:C2'	22:CV:75:C:C5'	2.94	0.46
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.50	0.46
35:BA:1192:G:C2'	35:BA:1193:G:H5'	2.45	0.46
40:BF:117:ARG:HG2	40:BF:192:LEU:HB2	1.96	0.46
14:AN:48:ALA:CA	14:AN:53:LEU:HD12	2.45	0.46
9:AI:18:PHE:HB2	9:AI:62:TYR:O	2.14	0.46
11:CK:31:THR:O	11:CK:31:THR:HG23	2.16	0.46
1:CA:175:C:H2'	1:CA:176:C:H6	1.79	0.46
25:D0:78:TYR:CD1	25:D0:78:TYR:N	2.84	0.46
4:AD:165:MET:C	4:AD:167:GLY:N	2.69	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.79	0.46
35:DA:64:A:O2'	35:DA:65:C:H5'	2.15	0.46
7:CG:7:ALA:O	7:CG:8:GLU:HG3	2.15	0.46
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.50	0.46
49:DQ:52:VAL:HG22	49:DQ:53:ALA:N	2.28	0.46
1:CA:650:G:O2'	1:CA:651:C:H5'	2.15	0.46
46:DN:12:ARG:HG2	46:DN:50:ASP:OD1	2.15	0.46
35:DA:1322:A:OP1	55:DW:11:ARG:HG3	2.14	0.46
45:DK:35:MET:C	45:DK:37:PHE:H	2.18	0.46
25:B0:45:PHE:HD2	25:B0:79:VAL:HG23	1.80	0.46
6:CF:36:ARG:HB3	6:CF:36:ARG:HH11	1.80	0.46
35:DA:965:C:H6	35:DA:965:C:H5''	1.80	0.46
1:AA:179:A:H2'	1:AA:180:U:C6	2.50	0.46
26:D1:82:LEU:HD22	26:D1:90:ILE:CD1	2.46	0.46
33:D8:22:VAL:HB	33:D8:53:PRO:HB3	1.97	0.46
35:BA:1885:A:H3'	35:BA:1886:C:C6	2.50	0.46
58:DZ:111:VAL:CG2	58:DZ:112:ARG:H	2.25	0.46
31:B6:11:LEU:CD2	31:B6:26:ASN:N	2.73	0.46
35:DA:2313:C:H2'	35:DA:2314:C:H6	1.79	0.46
40:DF:10:PRO:CA	40:DF:128:ALA:HB2	2.45	0.46
41:DG:133:LEU:CD1	41:DG:135:LEU:HD11	2.45	0.46
41:DG:86:MET:O	41:DG:87:PRO:O	2.34	0.46
41:BG:140:ILE:CG2	41:BG:140:ILE:O	2.63	0.46
41:BG:120:LEU:HB2	41:BG:180:PHE:CD2	2.50	0.46
35:DA:2572:A:OP1	39:DE:144:ARG:HB2	2.15	0.46
4:CD:19:LEU:O	4:CD:26:CYS:SG	2.74	0.46
54:DV:6:LYS:HE2	54:DV:37:VAL:CG1	2.45	0.46
37:BC:36:LYS:CG	37:BC:37:PHE:N	2.76	0.46
57:DY:7:VAL:CB	57:DY:8:LYS:HZ2	2.28	0.46
10:AJ:25:GLU:HG2	10:AJ:28:ARG:HD2	1.97	0.46
48:DP:16:ARG:CD	48:DP:16:ARG:C	2.84	0.46
58:BZ:4:ARG:HD3	58:BZ:58:VAL:HB	1.97	0.46
2:AB:204:ASN:ND2	2:AB:207:ALA:CB	2.78	0.46
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.98	0.46
19:AS:20:LEU:HA	19:AS:23:ASN:ND2	2.15	0.46
35:BA:1019:U:O2'	35:BA:1021:A:C2	2.57	0.46
40:BF:34:TRP:HB2	48:BP:10:PRO:O	2.15	0.46
39:BE:44:TYR:O	39:BE:45:THR:HB	2.16	0.46
20:AT:49:ALA:HB2	20:AT:99:LEU:CD1	2.45	0.46
22:AW:12:U:H3	22:AW:23:A:H61	1.63	0.46
22:CW:49:C:O2'	22:CW:50:U:H5'	2.15	0.46
52:BT:76:PHE:HA	52:BT:77:PRO:HD3	1.72	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2789:C:H1'	35:DA:2892:A:H2	1.81	0.46
35:DA:2787:C:H1'	39:DE:61:ARG:HG2	1.96	0.46
5:AE:107:ARG:C	5:AE:109:ILE:N	2.68	0.46
35:BA:2751:G:O2'	35:BA:2752:C:H5'	2.16	0.46
35:BA:2753:A:O2'	35:BA:2754:U:C6	2.67	0.46
35:DA:17:G:H2'	35:DA:18:C:C6	2.50	0.46
28:B3:44:ARG:O	28:B3:48:GLU:N	2.37	0.46
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.60	0.46
1:AA:722:A:N3	1:AA:722:A:H3'	2.30	0.46
35:DA:9:U:H5''	46:DN:115:ARG:NH2	2.30	0.46
46:DN:40:PRO:C	46:DN:42:TRP:H	2.17	0.46
35:BA:2199:A:C5'	35:BA:2200:C:OP2	2.62	0.46
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.31	0.46
22:CV:18:G:H4'	22:CV:60:U:C2	2.50	0.46
17:CQ:45:HIS:O	17:CQ:46:ASP:HB2	2.15	0.46
2:CB:8:LYS:CA	2:CB:217:ARG:HH22	2.28	0.46
35:BA:1563:G:O2'	35:BA:1564:C:H5'	2.16	0.46
35:DA:2096:U:O2'	35:DA:2097:C:H5'	2.14	0.46
35:DA:862:G:H2'	35:DA:863:A:O4'	2.14	0.46
58:BZ:86:VAL:CG2	58:BZ:86:VAL:O	2.64	0.46
35:DA:1091:G:O2'	35:DA:1092:C:H5'	2.15	0.46
1:AA:1065:U:C5'	1:AA:1190:G:N2	2.78	0.46
35:BA:2354:G:H2'	35:BA:2355:C:C6	2.49	0.46
52:BT:54:ARG:HG2	52:BT:54:ARG:NH1	2.28	0.46
24:CY:332:ASP:OD1	24:CY:332:ASP:N	2.48	0.46
1:CA:161:A:H2'	1:CA:162:A:H8	1.79	0.46
12:AL:53:ARG:CB	12:AL:93:LEU:HD11	2.46	0.46
35:DA:1651:G:OP1	50:DR:37:THR:HG21	2.16	0.46
7:CG:18:TYR:CD2	7:CG:59:LEU:HB2	2.50	0.46
46:DN:93:THR:HG23	46:DN:94:HIS:N	2.31	0.46
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.16	0.46
1:CA:596:C:O2'	1:CA:597:G:H5'	2.16	0.46
58:DZ:135:GLU:O	58:DZ:136:PHE:CB	2.63	0.46
22:AV:25:C:H2'	22:AV:26:A:C8	2.50	0.46
2:AB:14:GLY:HA3	2:AB:16:HIS:CE1	2.49	0.46
35:DA:2362:G:C2'	35:DA:2363:C:H5'	2.46	0.46
1:AA:1514:C:O2'	1:AA:1515:C:H5'	2.15	0.46
35:BA:1005:C:H2'	35:BA:1006:C:H6	1.81	0.46
49:DQ:77:LYS:NZ	49:DQ:84:GLY:N	2.63	0.46
35:BA:78:A:H2'	35:BA:79:G:C8	2.50	0.46
35:DA:2317:C:O2'	35:DA:2318:G:H5'	2.16	0.46
35:DA:1417:C:H2'	35:DA:1418:G:O4'	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1411:C:H2'	35:BA:1412:A:C8	2.51	0.46
47:BO:72:PRO:C	47:BO:74:GLY:H	2.18	0.46
35:BA:2222:G:H5'	38:BD:149:PRO:HG3	1.96	0.46
56:DX:44:GLU:C	56:DX:46:ALA:H	2.19	0.46
32:D7:34:ARG:NH1	32:D7:39:ARG:HG3	2.30	0.46
5:AE:32:VAL:O	5:AE:43:LEU:HD12	2.16	0.46
35:DA:205:G:O2'	35:DA:206:U:OP2	2.33	0.46
58:BZ:126:VAL:CG1	58:BZ:163:LEU:HA	2.40	0.46
58:DZ:149:SER:HB2	58:DZ:173:ALA:CB	2.46	0.46
35:BA:813:U:C5	48:BP:27:HIS:CD2	3.04	0.46
57:DY:46:LYS:HB3	57:DY:47:LYS:CD	2.42	0.46
48:DP:32:THR:OG1	48:DP:33:ARG:N	2.48	0.46
24:AY:15:GLY:CA	24:AY:19:ILE:HG12	2.39	0.46
24:CY:22:LYS:HD2	24:CY:25:ARG:HB2	1.98	0.46
35:DA:1658:C:OP1	39:DE:132:HIS:CE1	2.68	0.46
53:DU:61:TRP:O	53:DU:62:ILE:C	2.53	0.46
1:CA:1128:C:O2'	1:CA:1130:A:C8	2.66	0.46
25:D0:11:ARG:O	25:D0:12:ASN:ND2	2.47	0.46
60:DI:37:VAL:CG1	60:DI:38:LEU:N	2.78	0.46
31:D6:18:ARG:HB2	31:D6:19:ARG:H	1.52	0.46
8:CH:120:THR:O	8:CH:121:ASP:C	2.53	0.46
57:DY:25:GLY:HA3	57:DY:39:VAL:HG13	1.97	0.46
24:CY:60:ASP:O	24:CY:64:SER:N	2.48	0.46
35:DA:2126:A:H1'	35:DA:2127:G:O4'	2.15	0.46
1:CA:959:A:H2'	1:CA:960:U:O4'	2.14	0.46
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.98	0.46
35:DA:1407:C:N3	35:DA:1596:A:C2	2.84	0.46
48:DP:9:ASN:N	48:DP:10:PRO:HD3	2.30	0.46
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.29	0.46
39:BE:87:GLU:HG3	39:BE:87:GLU:O	2.15	0.46
1:CA:1328:C:O2'	1:CA:1329:A:H5'	2.16	0.46
1:AA:1319:A:N7	1:AA:1323:G:C5	2.83	0.46
1:AA:402:G:H5'	1:AA:621:A:H1'	1.97	0.46
35:DA:2631:G:N3	35:DA:2810:A:H2	2.13	0.46
24:CY:227:LEU:HB3	24:CY:253:HIS:HA	1.96	0.46
7:AG:46:ALA:O	7:AG:49:ILE:N	2.49	0.46
1:CA:939:G:C5'	7:CG:102:ARG:HH22	2.24	0.46
35:BA:2787:C:H1'	39:BE:61:ARG:HG2	1.97	0.46
35:BA:2789:C:H1'	35:BA:2892:A:H2	1.81	0.46
46:BN:62:VAL:HG22	46:BN:66:LYS:CG	2.38	0.46
4:AD:150:GLU:N	4:AD:150:GLU:CD	2.69	0.46
4:AD:180:GLY:O	4:AD:181:MET:C	2.53	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2092:U:HO2'	35:BA:2093:G:P	2.38	0.46
4:CD:150:GLU:N	4:CD:150:GLU:CD	2.68	0.46
35:BA:218:A:C2	35:BA:235:U:H4'	2.51	0.46
35:DA:2143:C:H2'	35:DA:2144:U:O4'	2.15	0.46
35:BA:1039:G:O2'	35:BA:1040:C:H5'	2.15	0.46
20:AT:26:ASN:HA	20:AT:29:LYS:HG2	1.97	0.46
3:AC:129:ALA:HB3	3:AC:132:ARG:CG	2.42	0.46
60:DI:12:LEU:O	60:DI:12:LEU:HG	2.16	0.46
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.16	0.46
42:BH:20:ALA:HB3	42:BH:23:ARG:CB	2.42	0.46
4:AD:30:LYS:HA	4:AD:35:ARG:CG	2.44	0.46
51:BS:52:SER:CB	51:BS:55:ALA:HB3	2.45	0.46
1:CA:625:G:OP1	16:CP:9:PHE:HB3	2.14	0.46
7:AG:108:ALA:O	7:AG:119:ARG:HB3	2.16	0.46
1:CA:1510:U:H2'	1:CA:1511:G:H8	1.76	0.46
3:CC:9:GLY:HA3	14:CN:49:HIS:HA	1.96	0.46
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.51	0.46
36:DB:66:A:O2'	36:DB:67:G:O5'	2.33	0.46
19:CS:49:ILE:HG21	19:CS:71:LEU:HD13	1.97	0.46
53:DU:83:LEU:HD11	53:DU:109:LEU:HD22	1.97	0.46
3:CC:103:VAL:O	3:CC:103:VAL:HG12	2.15	0.46
35:BA:999:U:C2'	35:BA:1000:A:C5'	2.89	0.46
4:AD:128:VAL:CG1	4:AD:129:ASN:H	2.25	0.46
6:AF:77:ARG:CZ	6:AF:77:ARG:HB3	2.45	0.46
1:CA:1442:G:H2'	1:CA:1442(A):G:C5'	2.42	0.46
1:CA:1442(A):G:H2'	1:CA:1442(B):A:H2	1.80	0.46
7:AG:75:VAL:HG13	7:AG:145:ALA:HB2	1.97	0.46
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.51	0.46
36:DB:91:C:OP1	49:DQ:16:ARG:NH1	2.46	0.46
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.98	0.46
35:BA:460:A:H2'	35:BA:461:C:O4'	2.16	0.46
41:DG:37:VAL:CG2	41:DG:99:MET:HG3	2.46	0.46
51:BS:80:LEU:HD12	51:BS:80:LEU:N	2.30	0.46
35:BA:1327:C:H2'	35:BA:1328:G:O4'	2.15	0.46
2:AB:44:LEU:HA	2:AB:47:THR:HG1	1.79	0.46
53:BU:98:LEU:HD21	54:BV:2:PHE:CZ	2.51	0.46
1:AA:688:G:H2'	1:AA:689:C:C6	2.49	0.46
1:CA:1047:G:H5''	14:CN:4:LYS:HG2	1.98	0.46
39:BE:39:PRO:HA	39:BE:43:GLY:CA	2.46	0.46
35:BA:960:A:C8	35:BA:962:G:C8	3.04	0.46
1:AA:811:C:H4'	1:AA:900:A:N6	2.30	0.46
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:9:ASN:OD1	20:AT:10:LEU:N	2.48	0.46
1:AA:913:A:O2'	1:AA:914:A:OP2	2.32	0.46
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.15	0.46
15:CO:25:THR:O	15:CO:27:VAL:N	2.48	0.46
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.39	0.46
1:AA:287:U:O2'	1:AA:288:A:H5'	2.16	0.46
49:BQ:77:LYS:NZ	49:BQ:84:GLY:N	2.63	0.46
35:BA:610:G:H2'	35:BA:611:C:C6	2.51	0.46
17:CQ:22:LEU:HD11	17:CQ:39:SER:HB2	1.96	0.46
35:DA:52:A:O2'	35:DA:53:A:H5'	2.16	0.46
35:DA:524:U:H4'	35:DA:555:U:H4'	1.98	0.46
35:BA:680:G:H2'	35:BA:681:G:C8	2.50	0.46
35:DA:2620:C:OP1	39:DE:152:LYS:O	2.33	0.46
36:BB:74:U:H2'	36:BB:75:G:O4'	2.14	0.46
35:DA:2508:G:O2'	35:DA:2509:G:H5'	2.14	0.46
22:AV:1:G:H2'	22:AV:2:C:C6	2.49	0.46
49:BQ:141:GLN:OXT	58:BZ:99:TYR:O	2.33	0.46
33:D8:32:LEU:C	33:D8:33:ASN:O	2.53	0.46
30:B5:3:LYS:HB2	35:BA:747:U:H5	1.79	0.46
35:BA:2015:A:H5'	55:BW:92:ARG:HH21	1.81	0.46
24:AY:17:LEU:O	24:AY:21:GLN:HG2	2.16	0.46
41:DG:41:GLN:O	41:DG:42:GLY:C	2.52	0.46
41:DG:78:SER:C	41:DG:80:PHE:N	2.69	0.46
41:BG:130:ASN:CG	41:BG:160:VAL:HA	2.36	0.46
4:CD:14:ARG:O	4:CD:16:GLY:N	2.49	0.46
24:AY:22:LYS:HE3	24:AY:26:LEU:HD21	1.97	0.46
35:DA:1494:A:H3'	35:DA:1494:A:N3	2.30	0.46
48:BP:112:LEU:C	48:BP:112:LEU:HD23	2.35	0.46
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.81	0.46
31:B6:15:GLU:HG3	31:B6:47:THR:OG1	2.15	0.46
35:DA:783:A:H2'	35:DA:784:A:O5'	2.16	0.46
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.79	0.46
51:DS:89:ARG:C	51:DS:92:TYR:HB3	2.36	0.46
51:BS:89:ARG:HB3	51:BS:92:TYR:HB2	1.97	0.46
48:BP:56:SER:O	48:BP:57:THR:O	2.34	0.46
49:DQ:5:ARG:O	49:DQ:6:ARG:CG	2.62	0.46
49:DQ:5:ARG:O	49:DQ:6:ARG:HD3	2.16	0.46
7:CG:50:ILE:HD11	7:CG:61:VAL:HG11	1.98	0.46
54:BV:19:LYS:CG	54:BV:20:LEU:N	2.70	0.46
54:BV:91:TYR:HD1	54:BV:91:TYR:H	1.64	0.46
48:DP:57:THR:C	48:DP:59:LEU:N	2.68	0.46
35:DA:2174:C:O2'	35:DA:2175:C:H5'	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:106:SER:O	52:DT:107:ASP:HB3	2.15	0.46
2:AB:28:PHE:CZ	2:AB:31:TYR:HB2	2.50	0.46
20:AT:94:ALA:O	20:AT:95:ALA:CB	2.64	0.46
1:AA:1328:C:O2'	1:AA:1329:A:H5'	2.16	0.46
39:DE:61:ARG:HB3	39:DE:62:PRO:HD3	1.97	0.46
11:CK:43:SER:HB3	11:CK:68:ALA:HB2	1.97	0.46
54:DV:81:TYR:C	54:DV:82:ARG:HG3	2.35	0.46
36:DB:42:C:O4'	41:DG:69:ALA:HB2	2.16	0.46
24:CY:253:HIS:HB3	24:CY:258:ILE:HG13	1.96	0.46
20:CT:45:GLN:C	20:CT:47:GLY:H	2.19	0.46
39:BE:61:ARG:CB	39:BE:62:PRO:CD	2.93	0.46
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.30	0.46
43:BI:15:VAL:C	43:BI:17:GLN:H	2.17	0.46
35:BA:773:U:H5'	38:BD:47:GLY:HA3	1.98	0.46
58:DZ:15:PRO:O	58:DZ:19:ARG:HB2	2.15	0.46
35:BA:17:G:H2'	35:BA:18:C:C6	2.50	0.46
51:DS:59:LYS:HB2	51:DS:65:VAL:CG2	2.44	0.46
7:CG:118:VAL:O	7:CG:121:ALA:HB3	2.16	0.46
47:DO:91:LEU:N	47:DO:91:LEU:HD22	2.30	0.46
1:CA:626:U:O2'	1:CA:627:G:H5'	2.15	0.46
24:CY:205:PHE:N	24:CY:205:PHE:CD1	2.83	0.46
60:DI:132:PRO:HG2	60:DI:138:ILE:HG13	1.98	0.46
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.35	0.46
50:BR:82:GLU:H	50:BR:85:PRO:CD	2.29	0.46
4:CD:83:SER:C	4:CD:85:LYS:H	2.19	0.46
45:BK:99:ILE:CG2	45:BK:103:GLN:HB2	2.46	0.46
2:CB:17:PHE:N	2:CB:17:PHE:CD2	2.83	0.46
42:BH:121:ILE:HD11	42:BH:140:LYS:HG2	1.97	0.46
6:AF:53:ALA:C	6:AF:55:ASP:H	2.19	0.46
43:BI:28:ASN:HA	43:BI:32:PRO:HG2	1.97	0.46
1:CA:1029:C:O2'	1:CA:1030:C:C5	2.68	0.46
35:DA:654(E):G:O2'	35:DA:654(F):C:H5'	2.16	0.46
22:AW:30:G:H2'	22:AW:31:A:C8	2.49	0.46
35:DA:1000:A:H8	35:DA:1000:A:H5'	1.81	0.46
35:DA:2839:G:C5'	50:DR:46:GLY:HA2	2.46	0.46
4:AD:73:ARG:HD2	4:AD:77:ASN:ND2	2.30	0.46
1:CA:1170:A:H2'	1:CA:1171:G:O4'	2.15	0.46
5:CE:31:LEU:HD23	5:CE:45:PHE:HB2	1.97	0.46
20:AT:38:LYS:HA	20:AT:41:ILE:CD1	2.46	0.46
47:BO:71:ARG:HH21	47:BO:77:ILE:HG21	1.81	0.46
24:CY:332:ASP:O	24:CY:333:PRO:C	2.53	0.46
40:DF:140:LEU:CD1	40:DF:170:LEU:HD21	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:103:ILE:C	37:DC:105:ASP:N	2.69	0.46
49:DQ:60:ARG:CB	49:DQ:60:ARG:NH1	2.79	0.46
36:DB:40:U:H3'	36:DB:41:U:H5''	1.96	0.46
6:AF:42:GLU:C	6:AF:44:GLY:N	2.68	0.46
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.46	0.46
35:DA:1331:A:O2'	35:DA:1332:G:H5''	2.15	0.46
1:CA:407:G:H2'	1:CA:408:A:C8	2.51	0.46
58:DZ:76:LEU:HD22	58:DZ:76:LEU:N	2.31	0.46
35:DA:2712:U:OP1	35:DA:2714:G:H4'	2.15	0.46
35:BA:49:A:H5''	35:BA:51:G:O4'	2.15	0.46
1:AA:692:U:O2'	1:AA:694:A:N7	2.40	0.46
35:DA:2619:C:H5''	39:DE:152:LYS:HA	1.98	0.46
35:BA:2677:G:H2'	35:BA:2678:C:C6	2.50	0.46
35:DA:1184:G:C6	35:DA:1185:C:C4	3.03	0.46
24:CY:82:GLU:OE1	24:CY:86:ALA:HB2	2.16	0.46
24:AY:13:LEU:O	24:AY:14:ARG:HG3	2.15	0.46
58:DZ:100:VAL:HG11	58:DZ:137:ILE:HG13	1.97	0.46
35:DA:2300:G:O2'	35:DA:2301:C:H5'	2.15	0.46
43:BI:56:LYS:O	43:BI:56:LYS:HG3	2.15	0.46
36:BB:44:G:C2	36:BB:48:A:C2	3.04	0.46
35:DA:2757:A:N1	42:DH:67:LEU:HD13	2.30	0.46
48:DP:23:PRO:CB	48:DP:33:ARG:HG3	2.36	0.46
42:BH:43:VAL:O	42:BH:43:VAL:HG23	2.15	0.46
41:DG:72:ARG:NH1	41:DG:86:MET:CA	2.70	0.46
24:CY:16:TYR:HA	24:CY:55:LEU:HD21	1.97	0.46
41:BG:100:TRP:O	41:BG:103:LEU:N	2.48	0.46
60:DI:75:LEU:CD1	60:DI:141:LYS:HD2	2.44	0.46
53:DU:66:ASN:OD1	53:DU:76:TYR:HB2	2.15	0.46
35:DA:997:G:OP1	53:DU:93:LYS:HB2	2.15	0.46
1:CA:1125:U:H2'	1:CA:1126:U:OP2	2.16	0.46
31:D6:19:ARG:NH2	31:D6:42:TRP:CZ2	2.83	0.46
24:CY:24:THR:HA	24:CY:27:LYS:HB2	1.98	0.46
5:AE:93:PRO:HG2	8:AH:105:ARG:NE	2.31	0.46
53:BU:61:TRP:O	53:BU:62:ILE:C	2.53	0.46
51:BS:89:ARG:C	51:BS:92:TYR:HB3	2.36	0.46
35:DA:2790:A:O2'	35:DA:2791:C:H5'	2.15	0.46
2:CB:31:TYR:O	2:CB:42:ILE:HG13	2.16	0.46
58:BZ:63:ASP:O	58:BZ:65:GLN:N	2.48	0.46
9:AI:4:TYR:CD2	9:AI:88:TYR:CB	2.99	0.46
38:BD:96:HIS:NE2	38:BD:102:LYS:HE2	2.30	0.46
38:DD:72:LYS:HD2	38:DD:97:TYR:CD2	2.51	0.46
22:CW:59:U:C2'	22:CW:60:U:H5'	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:401:C:H2'	1:AA:402:G:C8	2.50	0.46
38:DD:185:VAL:HG12	38:DD:189:CYS:SG	2.55	0.46
35:DA:2632:A:O2'	39:DE:61:ARG:NH2	2.48	0.46
5:CE:48:ALA:C	5:CE:50:GLU:H	2.19	0.46
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.69	0.46
1:AA:1427:U:H2'	1:AA:1428:A:H8	1.76	0.46
23:AX:19:U:H4'	23:AX:20:U:OP2	2.15	0.46
8:AH:11:THR:O	8:AH:15:ASN:ND2	2.49	0.46
1:AA:424:G:P	35:DA:2140:C:OP2	2.74	0.46
45:DK:57:ILE:HG13	45:DK:67:PHE:CB	2.44	0.46
3:AC:6:HIS:HB2	14:AN:49:HIS:CD2	2.50	0.46
19:AS:49:ILE:HG21	19:AS:71:LEU:HD13	1.98	0.46
35:DA:2263:C:O2'	35:DA:2264:C:H5'	2.15	0.46
55:DW:18:ARG:HG2	55:DW:76:VAL:HG13	1.98	0.46
16:AP:8:ARG:HG2	16:AP:9:PHE:N	2.31	0.46
17:CQ:60:ILE:O	17:CQ:60:ILE:HG23	2.16	0.46
35:DA:607:U:OP1	40:DF:102:PRO:HA	2.16	0.46
35:DA:601:C:C5'	40:DF:108:LYS:NZ	2.77	0.46
35:BA:2468:G:H22	35:BA:2481:G:HO2'	1.64	0.46
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.98	0.46
26:D1:30:VAL:H	35:DA:2396:G:C4'	2.28	0.46
10:AJ:53:PRO:HG2	10:AJ:54:PHE:H	1.80	0.46
1:CA:963:G:H2'	1:CA:964:A:C8	2.45	0.46
6:AF:19:LEU:HD23	6:AF:19:LEU:O	2.15	0.46
26:B1:68:PRO:O	26:B1:71:TYR:HB2	2.16	0.46
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.98	0.46
1:AA:7:G:O2'	5:AE:120:THR:O	2.33	0.46
35:DA:999:U:H2'	35:DA:1000:A:H5'	1.98	0.46
1:CA:1041:A:H2'	1:CA:1042:G:C8	2.47	0.46
41:BG:105:LYS:HZ1	41:BG:143:GLU:HG3	1.80	0.46
1:AA:551:U:H2'	1:AA:552:U:H6	1.78	0.46
35:BA:1651:G:OP1	50:BR:40:LYS:CE	2.63	0.46
1:AA:189(B):C:H2'	1:AA:189(C):C:H6	1.80	0.46
39:DE:79:ARG:NH1	39:DE:79:ARG:HG2	2.31	0.46
1:CA:453:A:H4'	16:CP:72:ARG:HG3	1.98	0.46
35:BA:2673:G:O2'	35:BA:2674:G:H5'	2.16	0.46
18:AR:47:THR:O	18:AR:82:THR:HA	2.16	0.46
18:AR:25:THR:HG22	18:AR:25:THR:O	2.15	0.46
58:BZ:45:ASP:OD1	58:BZ:49:ARG:HG2	2.16	0.46
36:BB:97:G:H2'	36:BB:98:G:C5'	2.45	0.46
35:BA:918:A:O3'	36:BB:97:G:N2	2.49	0.46
35:BA:412:A:N7	35:BA:2411:A:H2	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:828:U:H4'	35:BA:831:G:N1	2.31	0.46
1:AA:1160:G:H5'	2:AB:132:LYS:HE3	1.97	0.46
1:AA:865:A:H2'	1:AA:866:C:C6	2.50	0.46
35:DA:473:G:OP1	35:DA:508:G:N2	2.48	0.46
25:B0:66:VAL:HG12	25:B0:67:VAL:N	2.30	0.46
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.97	0.46
18:AR:36:ASN:HB3	18:AR:39:VAL:HG23	1.97	0.46
46:BN:18:ALA:CB	46:BN:21:LYS:HG3	2.45	0.46
15:AO:25:THR:O	15:AO:27:VAL:N	2.48	0.46
1:CA:515:G:O2'	1:CA:516:U:H5'	2.14	0.46
51:BS:42:ASP:C	51:BS:44:LYS:N	2.69	0.46
50:BR:95:THR:CA	50:BR:117:VAL:HG23	2.45	0.46
56:BX:83:VAL:HB	56:BX:87:GLN:HB2	1.97	0.46
37:DC:95:GLY:HA3	37:DC:99:ILE:HD11	1.97	0.46
1:AA:1229:A:OP2	13:AM:114:ARG:HD3	2.15	0.46
1:CA:447:G:C6	1:CA:485:G:H1'	2.50	0.46
47:BO:45:GLU:O	47:BO:45:GLU:HG3	2.15	0.46
56:BX:41:ASN:HD22	56:BX:41:ASN:N	2.14	0.46
38:BD:94:LEU:HD22	38:BD:94:LEU:C	2.36	0.46
16:AP:80:PHE:CD1	16:AP:80:PHE:N	2.84	0.46
50:BR:60:LEU:O	50:BR:60:LEU:HD23	2.16	0.46
38:DD:254:THR:OG1	38:DD:254:THR:O	2.27	0.46
35:BA:2273:A:O2'	35:BA:2274:A:H5'	2.15	0.46
35:BA:271(C):C:H2'	35:BA:271(D):G:C8	2.50	0.46
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.46	0.46
57:BY:81:LYS:HD3	57:BY:97:ARG:CB	2.20	0.46
41:DG:11:TYR:OH	41:DG:33:ARG:HG3	2.15	0.46
49:DQ:141:GLN:HA	58:DZ:53:ILE:HB	1.98	0.46
58:DZ:98:MET:O	58:DZ:125:LEU:HD12	2.15	0.46
33:B8:32:LEU:CD1	33:B8:32:LEU:H	2.19	0.46
35:BA:2345:G:H5''	35:BA:2347:C:O4'	2.16	0.46
31:D6:25:LYS:HD2	33:D8:34:TRP:HZ2	1.78	0.46
57:BY:46:LYS:HB3	57:BY:47:LYS:CD	2.44	0.46
41:DG:85:GLY:O	41:DG:87:PRO:CD	2.64	0.46
24:CY:21:GLN:O	24:CY:25:ARG:HG3	2.14	0.46
24:CY:22:LYS:HA	24:CY:25:ARG:CD	2.46	0.46
41:BG:8:LYS:O	41:BG:11:TYR:HB3	2.16	0.46
39:DE:132:HIS:CG	39:DE:135:HIS:NE2	2.83	0.46
24:AY:29:LEU:HD21	24:AY:34:GLU:OE2	2.16	0.46
28:B3:3:ARG:O	28:B3:4:LEU:O	2.33	0.46
53:DU:57:PHE:O	53:DU:59:ARG:N	2.48	0.46
35:DA:2383:G:O2'	35:DA:2384:G:H5'	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:147:LEU:HD12	48:DP:148:LEU:N	2.18	0.46
35:BA:1175:U:H4'	35:BA:1176:G:C5'	2.44	0.46
10:CJ:97:GLU:OE2	10:CJ:97:GLU:HA	2.16	0.46
57:BY:35:TYR:CE2	57:BY:69:ALA:HB3	2.51	0.46
38:DD:222:ARG:O	38:DD:226:MET:HE2	2.16	0.46
27:D2:10:LEU:CD2	27:D2:59:ARG:HD2	2.46	0.46
1:CA:1225:A:H2'	1:CA:1226:C:C5	2.50	0.46
35:DA:143:G:O4'	56:DX:37:THR:HG21	2.16	0.46
52:DT:3:ARG:C	52:DT:5:ALA:N	2.68	0.46
1:AA:959:A:H2'	1:AA:960:U:O4'	2.15	0.46
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.16	0.46
48:BP:10:PRO:CD	48:BP:11:GLY:N	2.79	0.46
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.45	0.46
57:DY:55:TYR:HB3	57:DY:56:PRO:HD2	1.97	0.46
57:BY:89:PHE:O	57:BY:90:LEU:CB	2.60	0.46
5:CE:101:ILE:H	5:CE:101:ILE:CD1	2.17	0.46
35:DA:621:A:H2'	35:DA:622:G:H5'	1.98	0.46
38:BD:142:VAL:CG2	38:BD:191:ALA:HB1	2.44	0.46
35:BA:2103:C:H3'	35:BA:2104:G:C5'	2.37	0.46
46:BN:57:ALA:CB	46:BN:124:ALA:HA	2.38	0.46
46:DN:62:VAL:HG22	46:DN:66:LYS:CG	2.40	0.46
24:AY:352:LYS:C	24:AY:354:GLY:N	2.69	0.46
48:DP:95:VAL:CG2	48:DP:125:VAL:HG23	2.46	0.46
8:AH:14:ARG:NH1	8:AH:14:ARG:HB3	2.31	0.46
1:AA:722:A:H4'	1:AA:723:U:C4	2.51	0.46
43:BI:119:PRO:O	43:BI:120:ILE:O	2.33	0.46
35:DA:769:G:C2'	35:DA:770:G:H5'	2.45	0.46
35:DA:990:A:OP2	35:DA:991:C:OP2	2.34	0.46
45:DK:99:ILE:CG2	45:DK:103:GLN:HB2	2.46	0.46
35:BA:951:C:O2'	35:BA:952:G:H5'	2.15	0.46
15:AO:23:GLY:O	15:AO:24:SER:CB	2.61	0.46
19:CS:49:ILE:N	19:CS:49:ILE:HD12	2.31	0.46
38:BD:125:ILE:H	38:BD:125:ILE:CD1	2.24	0.46
7:CG:78:ARG:HH12	7:CG:154:TYR:HB3	1.80	0.46
6:AF:77:ARG:HH11	6:AF:77:ARG:HB3	1.78	0.46
3:AC:15:THR:HG22	3:AC:181:ASN:CA	2.46	0.46
4:AD:85:LYS:CD	4:AD:86:LYS:H	2.28	0.46
43:BI:27:ARG:HG3	43:BI:27:ARG:HH11	1.80	0.46
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	2.15	0.46
1:AA:1029:C:O2'	1:AA:1030:C:C5	2.68	0.46
6:CF:77:ARG:HB3	6:CF:77:ARG:HH11	1.79	0.46
24:CY:239:GLY:HA2	35:DA:2584:U:O2'	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:28:ARG:HH11	6:AF:28:ARG:HG3	1.80	0.46
35:DA:2543:G:H5'	35:DA:2543:G:H8	1.81	0.46
10:AJ:44:VAL:CG1	10:AJ:45:ARG:N	2.78	0.46
27:B2:16:LEU:O	27:B2:17:SER:O	2.34	0.46
45:BK:73:PRO:C	45:BK:75:SER:H	2.18	0.46
3:AC:124:ILE:HG21	3:AC:196:LEU:HG	1.97	0.46
35:DA:1819:A:H5''	38:DD:161:THR:HG21	1.97	0.46
1:AA:167:G:O2'	1:AA:168:G:H5'	2.16	0.46
13:CM:56:LEU:O	13:CM:56:LEU:HD13	2.15	0.46
53:DU:102:GLU:HA	53:DU:104:GLN:HE22	1.80	0.46
1:CA:1017:G:H2'	1:CA:1018:C:H6	1.78	0.46
47:DO:40:VAL:HG12	47:DO:41:ALA:N	2.30	0.46
3:AC:47:LEU:HD11	3:AC:76:VAL:HG12	1.98	0.46
24:AY:83:GLU:C	24:AY:84:ARG:HD3	2.36	0.46
52:BT:112:ARG:CB	52:BT:112:ARG:NH1	2.79	0.46
35:DA:528:A:H2	35:DA:2043:C:O5'	1.99	0.46
35:DA:828:U:H4'	35:DA:831:G:N1	2.30	0.46
3:AC:62:ASP:HA	3:AC:97:LYS:HZ2	1.81	0.46
35:DA:2684:U:H1'	47:DO:70:LYS:HD2	1.97	0.46
35:DA:412:A:N7	35:DA:2411:A:H2	2.13	0.46
13:CM:82:MET:SD	13:CM:83:ASP:N	2.89	0.46
46:DN:26:LEU:CG	46:DN:30:ILE:HD11	2.46	0.46
2:AB:141:GLU:O	2:AB:145:LEU:HD23	2.16	0.46
35:BA:2777:G:H5''	35:BA:2778:A:C5'	2.46	0.46
38:BD:201:HIS:C	38:BD:203:ASN:H	2.18	0.46
1:CA:1068:G:OP2	1:CA:1094:G:H5'	2.15	0.46
4:AD:147:ALA:HB2	4:AD:182:LYS:CB	2.46	0.46
1:CA:643:C:H2'	1:CA:644:G:H8	1.80	0.46
35:BA:1766:U:O2'	35:BA:1767:C:H5'	2.16	0.46
35:DA:1550:C:H2'	35:DA:1551:C:H6	1.81	0.46
24:CY:322:LYS:HG3	24:CY:323:ASP:N	2.31	0.46
35:DA:2518:A:H5'	35:DA:2518:A:C8	2.51	0.46
58:DZ:124:ILE:HG12	58:DZ:125:LEU:N	2.31	0.46
35:DA:271(R):G:H2'	35:DA:271(S):G:H8	1.80	0.46
58:BZ:120:ILE:O	58:BZ:171:ILE:O	2.34	0.46
42:DH:43:VAL:HG23	42:DH:43:VAL:O	2.16	0.46
35:DA:2305:A:C4	41:DG:154:GLY:HA3	2.51	0.46
41:DG:133:LEU:HD12	41:DG:135:LEU:HD11	1.98	0.46
41:DG:76:SER:HB3	41:DG:84:LYS:H	1.76	0.46
24:CY:15:GLY:C	24:CY:17:LEU:N	2.69	0.46
1:CA:544:G:C6	1:CA:545:C:C4	3.03	0.46
53:DU:61:TRP:CD2	53:DU:94:ASN:HA	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:134:ALA:C	48:DP:136:GLU:H	2.18	0.46
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.80	0.46
25:D0:49:LYS:O	25:D0:51:VAL:HG23	2.15	0.46
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.15	0.46
1:CA:558:G:C3'	1:CA:559:A:C5'	2.91	0.46
26:D1:68:PRO:HG2	26:D1:69:LYS:H	1.81	0.46
31:B6:15:GLU:O	31:B6:16:CYS:C	2.54	0.46
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.45	0.46
35:BA:1506:C:O2	35:BA:1506:C:H2'	2.16	0.46
25:B0:49:LYS:H	25:B0:80:HIS:HD1	1.63	0.46
24:CY:54:ARG:NH1	24:CY:54:ARG:CG	2.77	0.46
9:AI:99:LEU:HD12	9:AI:101:PHE:HE1	1.80	0.46
10:AJ:97:GLU:OE2	10:AJ:97:GLU:HA	2.16	0.46
32:B7:8:ASN:ND2	32:B7:10:ARG:N	2.64	0.46
35:BA:2875:C:H4'	52:BT:5:ALA:CB	2.33	0.46
48:BP:49:ARG:O	48:BP:50:ARG:HB3	2.14	0.46
9:AI:4:TYR:CD2	9:AI:88:TYR:HB3	2.50	0.46
57:BY:55:TYR:HB3	57:BY:56:PRO:HD2	1.98	0.46
57:DY:88:LYS:HD3	57:DY:93:GLY:H	1.81	0.46
27:D2:46:GLN:O	27:D2:47:ASN:C	2.53	0.46
35:DA:2753:A:O2'	35:DA:2754:U:C6	2.66	0.46
39:BE:93:VAL:HG21	39:BE:180:ASN:CA	2.38	0.46
60:DI:77:LEU:HD11	60:DI:142:VAL:HG13	1.98	0.46
24:CY:44:ALA:O	24:CY:48:VAL:HG22	2.15	0.46
24:AY:174:GLU:CD	24:AY:174:GLU:H	2.19	0.46
9:CI:114:TYR:N	9:CI:114:TYR:CD2	2.82	0.46
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.15	0.46
24:AY:146:ARG:NH1	24:AY:147:GLN:NE2	2.64	0.46
35:BA:2511:U:O4	35:BA:2575:C:N3	2.49	0.46
35:BA:1712:C:O2'	35:BA:1713:U:H5'	2.16	0.46
16:CP:8:ARG:HG2	16:CP:9:PHE:N	2.30	0.46
2:AB:102:LEU:HB3	2:AB:180:LEU:CD1	2.44	0.46
35:BA:2836:U:C4	35:BA:2883:A:N6	2.84	0.46
11:CK:116:HIS:O	11:CK:117:ASN:HB2	2.15	0.46
47:DO:16:ALA:HA	47:DO:46:ALA:HB2	1.98	0.46
35:DA:2695:C:H2'	35:DA:2696:U:H6	1.80	0.46
45:BK:58:THR:HB	45:BK:66:THR:CG2	2.41	0.46
35:DA:2051:A:H5'	35:DA:2578:G:O4'	2.16	0.46
47:BO:4:PRO:HA	47:BO:21:CYS:O	2.15	0.46
40:DF:133:ASN:HA	40:DF:162:LEU:HD23	1.97	0.46
24:AY:191:ARG:HH21	24:AY:194:PRO:CD	2.29	0.46
2:CB:82:ARG:O	2:CB:86:GLU:HG3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:135:LEU:CD1	48:DP:139:LYS:HD2	2.46	0.46
35:DA:999:U:C2'	35:DA:1000:A:C5'	2.91	0.46
4:AD:205:GLU:O	4:AD:206:PHE:C	2.53	0.46
35:BA:2841:C:O2'	35:BA:2842:G:H5'	2.16	0.46
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.16	0.46
6:CF:55:ASP:CB	6:CF:86:ARG:HH12	2.28	0.46
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.51	0.46
39:BE:108:SER:HG	39:BE:163:GLU:HG2	1.81	0.46
47:BO:71:ARG:HH11	47:BO:71:ARG:HG3	1.81	0.46
50:DR:8:ARG:H	50:DR:8:ARG:HE	1.64	0.46
20:AT:63:ILE:HG22	20:AT:77:ALA:HB1	1.98	0.46
1:AA:498:U:HO2'	1:AA:499:A:P	2.38	0.46
1:CA:1160:G:H5'	2:CB:132:LYS:HE3	1.98	0.46
3:AC:5:ILE:C	3:AC:5:ILE:HD12	2.36	0.46
58:DZ:11:GLU:OE2	58:DZ:13:GLU:HG2	2.15	0.46
40:BF:198:ALA:O	40:BF:200:GLU:N	2.49	0.46
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.81	0.46
1:CA:1523:G:OP1	11:CK:123:LYS:HD3	2.16	0.46
18:CR:29:PHE:CD1	18:CR:39:VAL:HG11	2.51	0.46
46:BN:18:ALA:HB2	46:BN:26:LEU:HD13	1.98	0.46
1:AA:658:G:H1'	15:AO:22:THR:HB	1.97	0.46
1:AA:660:G:H2'	1:AA:661:G:O4'	2.15	0.46
1:CA:477:A:O2'	1:CA:479:C:H5'	2.16	0.46
1:CA:580:U:H2'	1:CA:581:G:O4'	2.16	0.46
1:CA:35:G:H2'	1:CA:36:C:C6	2.51	0.46
4:CD:100:ARG:NH2	4:CD:137:SER:HA	2.31	0.46
35:DA:30:G:O2'	35:DA:31:C:H5'	2.15	0.46
27:B2:29:LYS:O	27:B2:32:LEU:HB3	2.15	0.46
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.16	0.46
1:AA:38:G:C2	1:AA:397:A:C2	3.03	0.46
35:DA:608:A:H2'	35:DA:609:A:C8	2.50	0.46
36:DB:97:G:C2'	36:DB:98:G:H5'	2.46	0.46
5:CE:87:SER:OG	5:CE:130:ASN:HB3	2.15	0.46
1:AA:1307:U:O2'	1:AA:1308:U:H5'	2.16	0.46
4:CD:147:ALA:HB2	4:CD:182:LYS:CB	2.46	0.46
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.34	0.46
24:CY:78:GLU:O	24:CY:78:GLU:CD	2.54	0.46
36:BB:7:G:H3'	36:BB:8:U:C5'	2.46	0.46
41:DG:14:GLU:O	41:DG:17:PRO:HD2	2.16	0.46
58:BZ:39:VAL:HG11	58:BZ:88:PHE:CZ	2.47	0.46
45:DK:93:ARG:HB3	58:DZ:112:ARG:CD	2.44	0.46
21:CU:2:GLY:C	21:CU:4:GLY:H	2.19	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:813:U:C5	48:DP:27:HIS:CD2	3.04	0.46
40:BF:21:ALA:O	40:BF:23:ASP:N	2.44	0.46
35:DA:271(R):G:H2'	35:DA:271(S):G:C8	2.51	0.46
55:BW:92:ARG:NH1	55:BW:94:ASP:OD2	2.49	0.46
57:BY:45:VAL:HA	57:BY:62:GLU:HB2	1.97	0.46
4:AD:18:LYS:HE3	4:AD:31:CYS:CB	2.45	0.46
25:B0:41:ARG:CB	35:BA:2330:G:H1'	2.45	0.46
35:DA:2306:C:C5	35:DA:2307:G:H1'	2.51	0.46
41:DG:72:ARG:HH11	41:DG:86:MET:CA	2.17	0.46
53:DU:88:ILE:HG21	54:DV:47:VAL:O	2.15	0.46
54:BV:4:ILE:O	54:BV:4:ILE:HG22	2.15	0.46
57:BY:11:ASP:O	57:BY:28:LYS:HE2	2.16	0.46
60:DI:37:VAL:HG12	60:DI:38:LEU:N	2.31	0.46
31:D6:15:GLU:O	31:D6:16:CYS:C	2.55	0.46
53:BU:92:ARG:HB2	54:BV:11:GLN:CD	2.35	0.46
51:DS:14:VAL:CG1	51:DS:15:ARG:H	2.11	0.46
57:DY:28:LYS:O	57:DY:38:ILE:HB	2.16	0.46
48:BP:57:THR:O	48:BP:59:LEU:N	2.44	0.46
10:AJ:6:ILE:HG13	10:AJ:6:ILE:O	2.15	0.46
37:DC:58:VAL:HA	37:DC:59:ARG:CZ	2.46	0.46
32:D7:46:VAL:HG12	32:D7:48:LYS:NZ	2.31	0.46
36:DB:56:G:HO2'	36:DB:57:A:P	2.39	0.46
32:B7:46:VAL:HG12	32:B7:48:LYS:HZ3	1.81	0.46
52:BT:6:LEU:C	52:BT:6:LEU:HD23	2.36	0.46
2:AB:75:LYS:C	2:AB:75:LYS:HD3	2.36	0.46
40:BF:110:LEU:O	40:BF:111:ALA:C	2.54	0.46
35:BA:1407:C:C2	35:BA:1596:A:C2	3.03	0.46
9:AI:4:TYR:CE2	9:AI:88:TYR:HB3	2.51	0.46
20:AT:57:ARG:HB2	20:AT:57:ARG:NH1	2.31	0.46
1:AA:643:C:H2'	1:AA:644:G:H8	1.80	0.46
38:DD:35:LYS:CB	38:DD:36:PRO:HD3	2.46	0.46
38:DD:92:ILE:CG2	38:DD:93:ALA:N	2.78	0.46
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.50	0.46
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.79	0.46
35:DA:1686:C:C2'	35:DA:1687:G:H5'	2.46	0.46
27:D2:35:LEU:O	27:D2:37:PHE:N	2.49	0.46
48:BP:125:VAL:O	48:BP:125:VAL:HG22	2.16	0.46
51:BS:59:LYS:HB2	51:BS:65:VAL:CG2	2.45	0.46
10:CJ:49:VAL:HG22	14:CN:41:ARG:HB2	1.98	0.46
10:AJ:49:VAL:HG22	14:AN:41:ARG:HB2	1.98	0.46
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.31	0.46
50:DR:81:ASP:O	50:DR:82:GLU:CB	2.62	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:DR:104:ARG:HB2	50:DR:104:ARG:HH11	1.78	0.46
53:DU:27:LEU:CD2	53:DU:27:LEU:N	2.73	0.46
2:AB:92:TYR:HE2	2:AB:151:GLY:CA	2.28	0.46
22:CV:29:G:H1	22:CV:41:C:N4	2.14	0.46
39:BE:16:ARG:NH1	39:BE:171:GLU:OE2	2.48	0.46
35:BA:55:G:H2'	35:BA:56:A:H8	1.80	0.46
1:AA:963:G:H2'	1:AA:964:A:C8	2.44	0.46
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.51	0.46
35:BA:1000:A:H8	35:BA:1000:A:H5'	1.80	0.46
24:CY:10:LEU:O	24:CY:14:ARG:CD	2.64	0.46
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.81	0.46
35:DA:2115:G:H3'	35:DA:2116:G:C5'	2.46	0.46
6:CF:24:GLU:HG3	6:CF:25:ILE:H	1.80	0.46
45:DK:130:SER:O	45:DK:133:SER:HB2	2.15	0.46
35:DA:1344:G:H4'	35:DA:1384:A:C5	2.51	0.46
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.98	0.46
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.15	0.46
2:AB:116:GLU:HA	2:AB:119:GLU:CB	2.46	0.46
2:AB:17:PHE:CD2	2:AB:17:PHE:N	2.84	0.46
9:CI:118:LYS:HZ2	9:CI:118:LYS:HB3	1.81	0.46
35:DA:1327:C:H2'	35:DA:1328:G:O4'	2.16	0.46
35:DA:448:U:C4	35:DA:583:G:H1'	2.51	0.46
46:BN:111:PRO:HG3	46:BN:114:ARG:NH2	2.31	0.46
35:DA:1111:A:C2	35:DA:1112:G:H1'	2.51	0.46
46:DN:18:ALA:HB2	46:DN:26:LEU:HD13	1.98	0.46
38:BD:118:VAL:N	38:BD:129:ASN:OD1	2.41	0.46
25:D0:25:ARG:HD3	25:D0:29:GLN:HE22	1.81	0.46
15:CO:38:ARG:HG2	15:CO:38:ARG:NH1	2.31	0.46
1:CA:889:A:H5'	1:CA:891:U:C1'	2.46	0.46
35:DA:1339:G:H21	35:DA:1603:A:H1'	1.81	0.46
1:CA:1187:G:H4'	9:CI:111:ARG:NH1	2.30	0.46
35:DA:2778:A:H4'	35:DA:2779:U:OP1	2.15	0.46
6:AF:36:ARG:NH1	6:AF:36:ARG:HB3	2.31	0.46
35:DA:139:G:C6	35:DA:140:G:H2'	2.51	0.46
32:B7:34:ARG:NH1	32:B7:39:ARG:HG3	2.31	0.46
11:AK:41:THR:HG22	11:AK:42:TRP:N	2.31	0.46
5:AE:100:VAL:HG13	5:AE:118:ILE:CG2	2.46	0.46
1:CA:1240:U:OP2	7:CG:116:ALA:HB2	2.16	0.46
40:BF:144:LYS:C	40:BF:146:ALA:H	2.18	0.46
47:DO:110:GLY:HA2	47:DO:112:MET:CE	2.45	0.46
35:BA:1932:A:H2'	35:BA:1933:G:O4'	2.16	0.46
35:BA:2881:C:C4	35:BA:2882:A:N7	2.84	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:305:U:H2'	35:BA:306:U:C6	2.51	0.46
55:BW:68:ARG:HH11	55:BW:68:ARG:HG3	1.81	0.46
1:CA:788:U:H2'	1:CA:789:U:O4'	2.16	0.46
58:DZ:151:HIS:HB3	58:DZ:170:THR:CA	2.36	0.46
35:DA:2758:A:C5	42:DH:67:LEU:HD21	2.51	0.46
35:DA:271(S):G:C3'	35:DA:271(T):C:H5''	2.44	0.46
55:BW:92:ARG:HG2	55:BW:92:ARG:NH1	2.31	0.46
24:AY:52:ALA:O	24:AY:54:ARG:N	2.49	0.46
41:DG:60:LEU:HB3	41:DG:68:PRO:HG2	1.98	0.46
41:BG:28:VAL:O	41:BG:31:VAL:HG12	2.16	0.46
50:DR:10:LEU:HD22	50:DR:17:ARG:CG	2.46	0.46
54:BV:38:LEU:HD12	54:BV:56:SER:N	2.31	0.46
31:B6:16:CYS:O	31:B6:17:LYS:CB	2.62	0.46
31:B6:19:ARG:NH2	31:B6:42:TRP:CZ2	2.84	0.46
58:DZ:47:VAL:O	58:DZ:51:ALA:HB3	2.16	0.46
5:AE:139:LEU:C	5:AE:141:GLN:N	2.69	0.46
24:AY:254:LEU:HG	24:AY:254:LEU:H	1.42	0.46
53:BU:92:ARG:NH1	54:BV:11:GLN:N	2.64	0.46
47:DO:104:ARG:HE	52:DT:33:LYS:HE3	1.80	0.46
9:AI:79:LEU:O	9:AI:79:LEU:HD13	2.16	0.46
46:DN:34:LEU:HD21	46:DN:120:LEU:HB2	1.98	0.46
35:DA:2126:A:C6	35:DA:2163:C:H4'	2.49	0.46
50:DR:32:GLY:C	50:DR:33:ARG:HD2	2.36	0.46
2:CB:75:LYS:C	2:CB:75:LYS:HD3	2.36	0.46
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.45	0.46
2:AB:31:TYR:O	2:AB:42:ILE:HG13	2.17	0.46
20:CT:54:LYS:HA	20:CT:57:ARG:NH2	2.31	0.46
38:BD:35:LYS:HE2	38:BD:104:TYR:CD1	2.51	0.46
9:CI:4:TYR:CD2	9:CI:88:TYR:HB3	2.51	0.46
9:CI:4:TYR:CD2	9:CI:88:TYR:CB	2.99	0.46
35:BA:1080:C:O2'	35:BA:1081:U:H5'	2.16	0.46
39:BE:36:ARG:NH1	39:BE:86:PRO:HD2	2.30	0.46
22:AW:46:G:OP1	22:AW:46:G:H3'	2.16	0.46
35:BA:1686:C:C2'	35:BA:1687:G:H5'	2.46	0.46
7:AG:15:ASP:HB3	7:AG:19:GLY:N	2.31	0.46
46:DN:56:ASN:ND2	46:DN:126:PRO:HD3	2.31	0.46
8:AH:6:ILE:HG23	8:AH:10:LEU:HD21	1.98	0.46
35:DA:38:A:H2'	35:DA:39:C:C6	2.51	0.46
3:AC:132:ARG:HA	3:AC:135:LYS:HB2	1.98	0.46
10:CJ:57:LYS:HD2	10:CJ:60:ARG:NH2	2.31	0.46
1:AA:430:A:O2'	1:AA:431:A:H5'	2.16	0.46
24:CY:225:GLU:CD	24:CY:225:GLU:N	2.59	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1310:G:O2'	1:CA:1311:G:H5'	2.16	0.46
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.16	0.46
24:AY:140:TYR:OH	24:AY:187:HIS:HE1	1.98	0.46
35:DA:2579:C:H4'	39:DE:134:ILE:HD12	1.98	0.46
35:DA:952:G:C6	35:DA:953:A:N7	2.84	0.46
42:BH:16:SER:O	42:BH:26:VAL:HA	2.16	0.46
35:DA:116:C:O2'	35:DA:117:G:H5'	2.16	0.46
35:DA:118:A:C8	35:DA:119:A:C8	3.04	0.46
35:BA:769:G:C2'	35:BA:770:G:H5'	2.46	0.46
1:AA:1061:G:H5''	10:AJ:59:SER:OG	2.16	0.46
53:DU:110:VAL:HG12	53:DU:114:LYS:HD2	1.98	0.46
1:AA:524:G:H2'	1:AA:525:C:C6	2.51	0.46
1:CA:1060:C:H5'	14:CN:45:ARG:HH22	1.81	0.46
22:CV:45:U:O2'	22:CV:46:G:H5'	2.15	0.46
35:DA:2785:C:H2'	35:DA:2786:U:O4'	2.16	0.46
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.98	0.46
1:CA:1030:C:C2'	1:CA:1030(A):G:H5'	2.46	0.46
1:CA:473:G:OP1	16:CP:81:ARG:HB2	2.16	0.46
1:AA:181:G:H2'	1:AA:183:G:C6	2.51	0.46
2:AB:96:ARG:N	2:AB:96:ARG:CD	2.79	0.46
1:CA:181:G:H2'	1:CA:183:G:C6	2.50	0.46
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.35	0.46
26:B1:70:VAL:O	26:B1:73:LEU:HB2	2.15	0.46
48:BP:102:ARG:O	48:BP:103:ALA:CB	2.64	0.46
1:CA:1505:G:H5''	1:CA:1506:U:OP1	2.16	0.46
42:DH:100:GLY:C	42:DH:102:ALA:N	2.68	0.46
17:AQ:45:HIS:CG	17:AQ:65:ILE:HD13	2.51	0.46
36:DB:91:C:O2'	36:DB:92:C:H5'	2.16	0.46
37:BC:65:PRO:HG2	37:BC:189:ILE:CA	2.46	0.46
1:AA:269:C:H2'	1:AA:270:A:H8	1.80	0.46
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.49	0.46
35:BA:1793:C:H2'	35:BA:1794:U:C6	2.51	0.46
35:DA:460:A:H2'	35:DA:461:C:O4'	2.16	0.46
35:BA:1652:A:H2'	35:BA:1653:G:H5'	1.98	0.46
35:BA:1111:A:C2	35:BA:1112:G:H1'	2.50	0.46
38:BD:109:ASP:HB2	38:BD:197:GLY:HA2	1.98	0.46
1:AA:26:A:O2'	4:AD:209:ARG:NH1	2.49	0.46
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.81	0.46
37:BC:18:LYS:O	37:BC:22:ILE:HD11	2.16	0.46
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.81	0.46
37:DC:213:TYR:CB	37:DC:219:GLY:H	2.28	0.46
35:DA:425:G:O2'	35:DA:426:C:H5'	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1015:G:C2'	35:DA:1016:G:H5'	2.46	0.46
35:DA:2370:G:H2'	35:DA:2371:G:O4'	2.16	0.46
17:AQ:85:VAL:HG12	17:AQ:89:LEU:HG	1.97	0.46
1:CA:189(F):U:C4	17:CQ:72:ARG:CZ	2.99	0.46
35:DA:445:C:O2'	35:DA:446:G:H5'	2.15	0.46
35:BA:2128:C:OP1	37:BC:35:ALA:HB1	2.16	0.46
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.15	0.46
38:DD:67:PHE:CE1	38:DD:157:ARG:NH1	2.83	0.46
35:DA:732:C:H2'	35:DA:733:G:O4'	2.15	0.46
55:DW:99:ARG:NH1	55:DW:99:ARG:HG2	2.31	0.46
35:BA:2177:C:H5''	37:BC:211:SER:CB	2.45	0.46
26:B1:84:GLY:O	26:B1:85:LEU:C	2.55	0.46
31:B6:12:GLU:HG2	31:B6:52:VAL:O	2.15	0.45
52:BT:28:VAL:O	52:BT:29:ARG:HD3	2.16	0.45
30:D5:36:CYS:SG	30:D5:49:CYS:CB	3.03	0.45
35:BA:1493:C:H4'	35:BA:1494:A:OP2	2.15	0.45
48:DP:27:HIS:ND1	48:DP:28:GLY:N	2.64	0.45
24:AY:344:LEU:N	24:AY:344:LEU:CD2	2.66	0.45
24:AY:54:ARG:HG2	24:AY:54:ARG:O	2.15	0.45
4:AD:13:ARG:NH1	4:AD:36:ARG:HD2	2.31	0.45
41:DG:64:THR:HG23	41:DG:65:GLY:H	1.81	0.45
39:BE:132:HIS:CG	39:BE:135:HIS:NE2	2.84	0.45
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.30	0.45
48:BP:115:LEU:C	48:BP:115:LEU:CD1	2.84	0.45
18:CR:51:LEU:HD22	18:CR:55:ARG:CG	2.45	0.45
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.47	0.45
54:BV:35:LEU:N	54:BV:35:LEU:HD22	2.31	0.45
1:CA:1117:G:H5'	1:CA:1117:G:C8	2.41	0.45
52:BT:36:GLU:HB3	52:BT:38:ASN:OD1	2.16	0.45
1:CA:1346:A:H5''	9:CI:120:ARG:NH1	2.15	0.45
39:DE:111:ARG:O	50:DR:2:ARG:HG3	2.17	0.45
26:D1:88:LYS:HZ3	26:D1:92:LYS:HB2	1.76	0.45
37:BC:49:ILE:C	37:BC:51:PRO:HD3	2.36	0.45
27:B2:9:GLN:HG2	27:B2:56:GLN:HE21	1.78	0.45
48:BP:16:ARG:CD	48:BP:16:ARG:C	2.84	0.45
2:AB:214:ILE:O	2:AB:218:ALA:CB	2.64	0.45
42:BH:98:LEU:N	42:BH:125:VAL:HG21	2.31	0.45
19:AS:13:ASP:C	19:AS:15:LEU:H	2.19	0.45
35:BA:34:C:C2'	35:BA:35:G:H5'	2.45	0.45
20:CT:50:GLU:O	20:CT:53:LEU:N	2.47	0.45
38:BD:85:ASP:OD1	38:BD:92:ILE:HD11	2.16	0.45
26:B1:44:PRO:O	26:B1:46:LEU:N	2.48	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:81:ILE:CG2	39:BE:81:ILE:O	2.63	0.45
38:DD:62:TYR:CD2	38:DD:63:ARG:N	2.81	0.45
24:CY:246:ASP:OD1	35:DA:2492:U:H4'	2.16	0.45
46:BN:58:ASP:HB3	46:BN:95:PRO:HB2	1.98	0.45
57:BY:68:HIS:C	57:BY:70:SER:H	2.19	0.45
5:CE:115:VAL:HG12	5:CE:116:THR:H	1.81	0.45
46:BN:62:VAL:CG2	46:BN:66:LYS:HG3	2.40	0.45
1:AA:1425:U:O2'	1:AA:1426:C:H5'	2.15	0.45
1:AA:423:G:H5'	35:DA:2139:C:OP2	2.16	0.45
3:AC:12:LEU:HD12	3:AC:18:TRP:CE2	2.51	0.45
2:AB:170:GLU:O	2:AB:173:ALA:HB3	2.15	0.45
1:AA:1015:A:H1'	1:AA:1218:C:O2'	2.16	0.45
24:CY:269:ILE:HD12	49:DQ:80:GLU:HG3	1.97	0.45
35:DA:829:A:N7	35:DA:2248:C:H5'	2.32	0.45
3:CC:12:LEU:HD12	3:CC:18:TRP:CE2	2.51	0.45
35:BA:1036:G:H2'	35:BA:1037:G:H8	1.80	0.45
35:BA:848:G:N9	35:BA:933:A:H8	2.14	0.45
57:DY:31:LEU:CB	57:DY:32:PRO:HA	2.40	0.45
17:AQ:60:ILE:HG23	17:AQ:60:ILE:O	2.15	0.45
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HD22	1.80	0.45
3:CC:167:TRP:CG	3:CC:168:ALA:N	2.83	0.45
24:AY:132:TRP:HE3	24:AY:135:MET:HE3	1.81	0.45
22:CV:30:G:C6	22:CV:31:A:N7	2.84	0.45
1:CA:1303:C:C2'	1:CA:1304:G:H5'	2.46	0.45
43:BI:78:THR:HG22	43:BI:143:SER:OG	2.15	0.45
42:DH:141:VAL:HG13	42:DH:142:GLY:N	2.30	0.45
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.47	0.45
1:AA:1030:C:C2'	1:AA:1030(A):G:H5'	2.46	0.45
1:CA:473:G:H5''	16:CP:81:ARG:CZ	2.46	0.45
38:DD:125:ILE:CD1	38:DD:125:ILE:H	2.28	0.45
2:CB:67:THR:CG2	2:CB:155:LEU:HG	2.46	0.45
35:DA:987:G:O2'	35:DA:1000:A:H1'	2.16	0.45
45:DK:73:PRO:C	45:DK:75:SER:N	2.70	0.45
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.46	0.45
10:CJ:67:THR:O	10:CJ:67:THR:CG2	2.64	0.45
1:CA:171:A:H2'	1:CA:172:A:C8	2.51	0.45
1:CA:165:C:H2'	1:CA:166:G:H8	1.82	0.45
16:CP:45:THR:HG23	16:CP:48:TRP:HA	1.98	0.45
35:BA:1678:G:N2	35:BA:1989:G:N2	2.64	0.45
35:DA:2850:A:H2'	35:DA:2851:A:H8	1.80	0.45
35:DA:654:A:H1'	35:DA:654(A):G:H1'	1.97	0.45
46:DN:119:ARG:CG	46:DN:119:ARG:NH1	2.79	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:119:ARG:CB	46:BN:119:ARG:HH11	2.29	0.45
53:DU:17:ILE:HG23	53:DU:39:LEU:HD12	1.96	0.45
35:BA:919:G:H5'	36:BB:81:G:C1'	2.46	0.45
35:BA:1162:G:O2'	35:BA:1163:G:H5'	2.17	0.45
1:CA:528:C:O2'	1:CA:529:G:H5'	2.16	0.45
1:AA:754:C:H1'	15:AO:69:TYR:CG	2.51	0.45
35:DA:1637:A:H4'	35:DA:2711:A:O2'	2.16	0.45
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.16	0.45
16:AP:26:ARG:HG2	16:AP:26:ARG:HH11	1.80	0.45
35:BA:2564:A:C2	35:BA:2647:U:H4'	2.51	0.45
36:DB:48:A:H2'	36:DB:49:C:C6	2.50	0.45
58:DZ:149:SER:HB2	58:DZ:173:ALA:CA	2.44	0.45
31:B6:51:GLU:HB3	31:B6:52:VAL:H	1.52	0.45
52:BT:28:VAL:HG22	52:BT:46:GLU:CA	2.46	0.45
35:DA:479:A:H4'	35:DA:480:A:OP1	2.15	0.45
47:DO:23:ARG:NH1	47:DO:23:ARG:HG2	2.31	0.45
40:BF:10:PRO:CA	40:BF:128:ALA:HB2	2.44	0.45
33:B8:22:VAL:HB	33:B8:53:PRO:HB3	1.98	0.45
40:DF:18:ARG:CG	40:DF:19:GLU:H	2.25	0.45
24:AY:61:THR:O	24:AY:65:LEU:HD12	2.16	0.45
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.45	0.45
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.81	0.45
35:DA:1175:U:H4'	35:DA:1176:G:C5'	2.44	0.45
31:B6:36:LEU:HA	31:B6:49:HIS:O	2.16	0.45
5:AE:146:ALA:C	5:AE:148:VAL:H	2.20	0.45
8:AH:103:VAL:O	8:AH:105:ARG:N	2.49	0.45
54:DV:21:ARG:HB3	54:DV:91:TYR:HD2	1.81	0.45
56:BX:27:THR:CB	56:BX:80:ILE:HG22	2.46	0.45
35:BA:2533:A:H3'	35:BA:2534:A:H5''	1.98	0.45
57:DY:11:ASP:O	57:DY:28:LYS:HE2	2.16	0.45
60:DI:30:LEU:HB3	60:DI:36:ALA:HB3	1.96	0.45
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.17	0.45
2:CB:204:ASN:HD21	2:CB:207:ALA:CB	2.29	0.45
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.31	0.45
38:DD:33:LEU:O	38:DD:35:LYS:N	2.49	0.45
22:CV:1:G:C4	22:CV:2:C:C5	3.04	0.45
1:CA:1319:A:N7	1:CA:1323:G:C5	2.83	0.45
3:CC:89:GLU:HG3	3:CC:93:LYS:HZ2	1.77	0.45
35:DA:2103:C:C2'	35:DA:2104:G:H5''	2.47	0.45
49:BQ:112:GLU:HG3	49:BQ:113:GLN:HG3	1.98	0.45
46:DN:58:ASP:HB3	46:DN:95:PRO:HB2	1.98	0.45
20:CT:94:ALA:O	20:CT:95:ALA:CB	2.64	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1107:G:H2'	35:BA:1108:U:H6	1.81	0.45
48:BP:123:LEU:N	48:BP:123:LEU:HD23	2.31	0.45
1:AA:424:G:OP1	35:DA:2140:C:OP2	2.33	0.45
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.98	0.45
5:AE:53:LEU:H	5:AE:53:LEU:CD1	2.23	0.45
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.51	0.45
28:D3:11:SER:HG	28:D3:13:ILE:HD13	1.80	0.45
1:CA:524:G:H2'	1:CA:525:C:C6	2.52	0.45
47:DO:118:ALA:C	47:DO:120:GLU:H	2.19	0.45
24:AY:186:VAL:O	24:AY:187:HIS:HD2	1.99	0.45
35:DA:2481:G:O2'	35:DA:2482:G:OP2	2.34	0.45
40:DF:6:VAL:HG12	40:DF:7:TYR:O	2.16	0.45
2:CB:73:THR:HG22	2:CB:95:GLN:O	2.16	0.45
4:AD:82:ALA:O	4:AD:85:LYS:HB2	2.16	0.45
1:AA:791:G:C5	1:AA:792:A:N7	2.84	0.45
35:BA:2654:A:O2'	35:BA:2655:G:H4'	2.16	0.45
58:BZ:24:LEU:HD21	58:BZ:86:VAL:HG11	1.99	0.45
1:AA:184:G:H5'	1:AA:224:C:H4'	1.98	0.45
50:DR:18:LEU:HD11	50:DR:22:ARG:CZ	2.46	0.45
38:BD:211:ARG:O	38:BD:213:ARG:N	2.49	0.45
25:B0:19:LYS:O	25:B0:20:ARG:C	2.54	0.45
3:AC:156:ARG:O	3:AC:159:GLY:N	2.41	0.45
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.54	0.45
4:CD:162:LEU:CD1	4:CD:181:MET:HG2	2.47	0.45
35:BA:1793:C:H2'	35:BA:1794:U:H6	1.81	0.45
35:BA:2197:U:O2'	35:BA:2198:A:H5''	2.16	0.45
35:DA:1797:C:O2'	38:DD:259:THR:CG2	2.65	0.45
38:DD:261:LYS:HZ2	38:DD:261:LYS:HB2	1.82	0.45
35:BA:290:G:C2'	35:BA:291:C:H5'	2.47	0.45
1:CA:1260:C:H5	1:CA:1274:G:H1	1.63	0.45
1:AA:174:C:H2'	1:AA:175:C:C6	2.50	0.45
35:BA:2115:G:H3'	35:BA:2116:G:C5'	2.46	0.45
46:DN:26:LEU:CD1	46:DN:30:ILE:HD11	2.47	0.45
15:AO:38:ARG:NH1	15:AO:38:ARG:HG2	2.31	0.45
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.51	0.45
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.51	0.45
1:AA:477:A:O2'	1:AA:479:C:H5'	2.16	0.45
17:CQ:12:SER:N	17:CQ:53:LEU:HD13	2.31	0.45
29:B4:53:THR:O	29:B4:54:LYS:HB2	2.16	0.45
1:AA:178:C:O2'	1:AA:179:A:H5'	2.16	0.45
35:DA:205:G:O2'	35:DA:206:U:P	2.73	0.45
50:BR:60:LEU:HD23	50:BR:60:LEU:C	2.37	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1195:C:H5''	1:CA:1196:U:OP2	2.16	0.45
3:CC:118:GLN:O	3:CC:121:ALA:HB3	2.15	0.45
35:BA:1637:A:H4'	35:BA:2711:A:O2'	2.16	0.45
35:DA:893:C:H2'	35:DA:894:C:C6	2.51	0.45
50:DR:14:SER:OG	50:DR:15:SER:N	2.50	0.45
1:AA:936:C:H2'	1:AA:937:A:O4'	2.16	0.45
1:CA:547:A:H4'	1:CA:548:G:O5'	2.16	0.45
35:DA:456:C:C4	56:DX:69:TYR:CE2	3.04	0.45
50:BR:14:SER:OG	50:BR:15:SER:N	2.48	0.45
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.47	0.45
41:DG:171:ALA:O	41:DG:174:GLU:HB3	2.16	0.45
41:DG:14:GLU:O	41:DG:17:PRO:HG2	2.17	0.45
35:BA:2758:A:C5	42:BH:67:LEU:HD21	2.51	0.45
45:DK:87:GLY:O	45:DK:88:ALA:HB2	2.16	0.45
58:DZ:101:PRO:O	58:DZ:102:LEU:HD12	2.16	0.45
41:DG:109:VAL:CG1	41:DG:142:PRO:HG3	2.46	0.45
35:BA:1579:A:H2'	35:BA:1580:A:O4'	2.17	0.45
35:DA:587:C:C4	48:DP:33:ARG:HG2	2.51	0.45
24:AY:65:LEU:HD23	24:AY:91:LEU:CD1	2.45	0.45
35:BA:2329:G:H2'	35:BA:2330:G:C8	2.51	0.45
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.81	0.45
24:CY:62:PHE:O	24:CY:66:GLU:HB2	2.16	0.45
41:BG:116:ASP:HB3	41:BG:117:PHE:H	1.53	0.45
41:BG:16:ARG:NH1	41:BG:31:VAL:HG11	2.27	0.45
35:BA:2313:C:O4'	41:BG:40:ASN:ND2	2.49	0.45
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.64	0.45
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.33	0.45
54:DV:38:LEU:HD23	54:DV:39:LEU:H	1.79	0.45
35:BA:275:G:C6	35:BA:362:U:H5	2.33	0.45
37:BC:74:VAL:HG12	37:BC:76:ALA:N	2.31	0.45
24:CY:37:SER:O	24:CY:39:TRP:HE3	2.00	0.45
31:B6:20:ASN:CG	31:B6:21:TYR:H	2.18	0.45
5:AE:115:VAL:HG12	5:AE:116:THR:H	1.81	0.45
5:AE:148:VAL:HG21	8:AH:107:LEU:HD13	1.99	0.45
46:DN:128:HIS:CE1	46:DN:134:ARG:HD3	2.52	0.45
52:BT:106:SER:O	52:BT:107:ASP:HB3	2.16	0.45
35:BA:783:A:H4'	35:BA:1779:U:O2	2.17	0.45
35:BA:2126:A:C6	35:BA:2163:C:H4'	2.50	0.45
51:BS:93:LYS:CG	51:BS:93:LYS:O	2.64	0.45
57:DY:2:ARG:N	57:DY:5:MET:HE3	2.31	0.45
27:D2:10:LEU:CD1	27:D2:14:ARG:HH21	2.19	0.45
2:CB:187:LEU:CD2	2:CB:201:ILE:HG22	2.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:9:ASN:N	48:BP:10:PRO:HD3	2.31	0.45
8:AH:4:ASP:OD2	8:AH:85:ARG:NH1	2.44	0.45
1:CA:1324:A:H4'	1:CA:1362:C:O3'	2.16	0.45
27:D2:35:LEU:C	27:D2:37:PHE:N	2.69	0.45
37:DC:44:HIS:HA	37:DC:175:VAL:N	2.20	0.45
51:BS:74:ALA:O	51:BS:77:ALA:HB3	2.17	0.45
43:BI:75:LEU:HD23	43:BI:76:THR:O	2.17	0.45
1:CA:389:A:H2'	1:CA:390:C:H5'	1.97	0.45
35:BA:2291:U:H5''	35:BA:2380:C:O2'	2.16	0.45
35:DA:2873:A:H2	50:DR:6:SER:HB3	1.76	0.45
48:BP:95:VAL:CG2	48:BP:125:VAL:HG23	2.46	0.45
1:AA:790:A:N1	1:AA:1497:G:H5''	2.31	0.45
23:AX:17:A:H2	23:AX:18:A:H8	1.63	0.45
35:DA:37:C:H2'	35:DA:38:A:H8	1.81	0.45
10:CJ:48:THR:OG1	10:CJ:62:HIS:HB3	2.15	0.45
49:DQ:47:ILE:HD12	49:DQ:70:PRO:HD3	1.98	0.45
13:CM:89:GLY:C	13:CM:90:LEU:O	2.53	0.45
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.16	0.45
45:DK:62:ASP:C	45:DK:64:SER:N	2.69	0.45
42:BH:41:MET:HE2	42:BH:55:PRO:HD3	1.98	0.45
24:AY:205:PHE:CE1	24:AY:307:TRP:CE3	3.04	0.45
30:D5:20:ARG:NH1	55:DW:15:ARG:NH2	2.62	0.45
35:DA:2473:U:C2'	35:DA:2473:U:O2	2.62	0.45
11:CK:125:PHE:HD1	11:CK:125:PHE:N	2.14	0.45
47:DO:93:PRO:HD3	47:DO:114:ILE:CD1	2.44	0.45
24:AY:252:VAL:HG13	24:AY:259:THR:HG22	1.99	0.45
1:AA:1123:A:C4'	10:AJ:36:GLY:HA3	2.44	0.45
1:CA:375:U:H4'	16:CP:17:TYR:HE2	1.81	0.45
3:AC:180:ALA:O	3:AC:181:ASN:C	2.53	0.45
20:AT:13:LEU:C	20:AT:13:LEU:CD1	2.84	0.45
6:CF:77:ARG:HB3	6:CF:77:ARG:CZ	2.46	0.45
1:AA:473:G:H5''	16:AP:81:ARG:CZ	2.46	0.45
4:CD:205:GLU:O	4:CD:206:PHE:C	2.54	0.45
41:BG:55:LYS:C	41:BG:57:ALA:N	2.69	0.45
33:B8:39:LYS:HE3	35:BA:2365:G:O6	2.16	0.45
1:AA:1494:G:C8	1:AA:1494:G:H5'	2.47	0.45
1:AA:1170:A:H2'	1:AA:1171:G:O4'	2.16	0.45
22:CV:62:C:C2'	22:CV:63:G:H5''	2.47	0.45
58:BZ:30:ASN:O	58:BZ:32:HIS:N	2.50	0.45
35:BA:2554:U:H2'	35:BA:2555:U:C6	2.51	0.45
4:CD:61:LYS:NZ	4:CD:62:GLN:HE22	2.13	0.45
1:CA:270:A:H2'	1:CA:271:C:C6	2.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:104:U:O4'	58:DZ:73:GLN:NE2	2.49	0.45
35:BA:640:C:O2'	35:BA:641:C:H5'	2.16	0.45
45:BK:13:PRO:HA	45:BK:51:ALA:O	2.15	0.45
1:AA:165:C:H2'	1:AA:166:G:H8	1.81	0.45
35:BA:2192:G:N3	35:BA:2192:G:H2'	2.31	0.45
18:AR:23:LYS:C	18:AR:25:THR:H	2.20	0.45
35:DA:582:G:H2'	35:DA:583:G:H8	1.81	0.45
12:AL:61:THR:C	12:AL:63:GLY:H	2.18	0.45
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	2.16	0.45
19:CS:58:VAL:HG21	19:CS:75:ALA:HB2	1.98	0.45
35:BA:2684:U:H1'	47:BO:70:LYS:HD2	1.98	0.45
18:AR:35:ARG:C	18:AR:37:VAL:H	2.19	0.45
1:AA:709:G:H2'	1:AA:710:G:H8	1.82	0.45
1:CA:708:C:H2'	1:CA:709:G:H8	1.80	0.45
1:CA:169:C:H2'	1:CA:170:U:H5'	1.97	0.45
11:CK:126:ARG:CB	11:CK:126:ARG:NH1	2.79	0.45
4:CD:165:MET:O	4:CD:167:GLY:N	2.50	0.45
35:DA:1911:U:H2'	35:DA:1918:A:N1	2.31	0.45
5:AE:87:SER:OG	5:AE:130:ASN:HB3	2.16	0.45
1:AA:564:C:C4	17:AQ:31:LEU:HD11	2.51	0.45
41:DG:36:LYS:HG3	41:DG:38:VAL:HG23	1.98	0.45
50:BR:103:ARG:HD3	50:BR:108:GLY:C	2.36	0.45
35:BA:2528:U:H2'	35:BA:2530:A:O5'	2.17	0.45
56:DX:83:VAL:HB	56:DX:87:GLN:HB2	1.98	0.45
55:BW:62:HIS:O	55:BW:63:ASP:C	2.55	0.45
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.47	0.45
48:DP:51:PHE:O	48:DP:52:GLU:O	2.34	0.45
49:BQ:140:ALA:HB3	58:BZ:53:ILE:CD1	2.47	0.45
58:BZ:99:TYR:CZ	58:BZ:125:LEU:HB2	2.51	0.45
58:BZ:124:ILE:CG1	58:BZ:125:LEU:N	2.80	0.45
35:DA:598:G:H2'	35:DA:599:G:O4'	2.16	0.45
42:DH:71:LEU:O	42:DH:71:LEU:HD23	2.16	0.45
48:DP:27:HIS:N	48:DP:30:THR:OG1	2.49	0.45
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.98	0.45
40:BF:9:ILE:HA	40:BF:13:SER:O	2.17	0.45
28:D3:37:LEU:O	28:D3:38:GLU:O	2.35	0.45
33:D8:61:LEU:H	33:D8:61:LEU:CD2	2.12	0.45
35:BA:1068:G:H21	35:BA:1096:A:H5'	1.81	0.45
41:DG:52:ILE:HG22	41:DG:53:LEU:H	1.80	0.45
41:BG:128:ARG:HA	41:BG:128:ARG:HD3	1.83	0.45
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.51	0.45
2:AB:19:HIS:CG	2:AB:20:GLU:H	2.35	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:49:HIS:O	53:DU:52:ARG:HB2	2.16	0.45
35:DA:271(L):U:H4'	35:DA:271(M):G:C4	2.51	0.45
48:BP:39:LYS:O	48:BP:40:SER:CB	2.64	0.45
38:BD:223:GLY:HA2	38:BD:226:MET:HE3	1.98	0.45
57:BY:28:LYS:CA	57:BY:39:VAL:H	2.27	0.45
10:CJ:25:GLU:HG2	10:CJ:28:ARG:HD2	1.97	0.45
5:CE:126:ARG:NH1	5:CE:126:ARG:HG3	2.25	0.45
54:DV:23:GLU:O	54:DV:24:LYS:C	2.54	0.45
53:BU:88:ILE:HB	53:BU:90:VAL:CG2	2.42	0.45
51:DS:20:ARG:NH1	51:DS:20:ARG:HG2	2.31	0.45
57:DY:37:VAL:O	57:DY:38:ILE:HG12	2.16	0.45
48:BP:62:LEU:HD22	48:BP:62:LEU:O	2.16	0.45
54:BV:25:LEU:C	54:BV:27:ALA:H	2.20	0.45
35:DA:2171:A:O2'	35:DA:2172:U:OP2	2.27	0.45
58:BZ:61:LEU:HB3	58:BZ:62:PRO:CD	2.47	0.45
2:AB:218:ALA:O	2:AB:222:ILE:HG13	2.17	0.45
51:BS:99:LYS:O	51:BS:101:LEU:HD13	2.16	0.45
1:CA:1363(A):A:C4'	1:CA:1364:U:H5''	2.34	0.45
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.46	0.45
39:DE:87:GLU:HG3	39:DE:87:GLU:O	2.16	0.45
1:AA:975:A:H4'	1:AA:976:G:C5'	2.38	0.45
1:CA:1105:A:O2'	1:CA:1106:G:H5'	2.16	0.45
9:AI:114:TYR:HE1	10:AJ:60:ARG:N	2.13	0.45
12:CL:84:LEU:HB2	12:CL:105:TYR:CE1	2.52	0.45
3:AC:154:SER:OG	3:AC:197:GLY:N	2.49	0.45
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.52	0.45
35:DA:829:A:N7	35:DA:2247:A:O2'	2.48	0.45
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	2.99	0.45
45:DK:105:LEU:O	45:DK:108:ALA:HB3	2.16	0.45
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.70	0.45
3:CC:15:THR:HG22	3:CC:181:ASN:CA	2.46	0.45
35:BA:999:U:O2'	35:BA:1000:A:H5''	2.15	0.45
2:CB:17:PHE:N	2:CB:17:PHE:HD2	2.15	0.45
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.96	0.45
2:AB:8:LYS:CA	2:AB:217:ARG:HH22	2.29	0.45
6:AF:94:GLN:O	6:AF:96:PRO:HD3	2.16	0.45
24:CY:182:PRO:HA	24:CY:352:LYS:HZ1	1.80	0.45
1:CA:530:G:C5	23:CX:24:A:C2	3.04	0.45
43:BI:109:ILE:N	43:BI:109:ILE:CD1	2.77	0.45
22:CV:62:C:C2'	22:CV:63:G:C5'	2.94	0.45
35:DA:955:C:H5'	35:DA:956:G:OP2	2.15	0.45
10:CJ:44:VAL:CG1	10:CJ:45:ARG:N	2.78	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.52	0.45
6:CF:75:LEU:HD23	6:CF:75:LEU:O	2.16	0.45
17:AQ:81:ARG:C	17:AQ:83:ASP:N	2.70	0.45
17:AQ:81:ARG:O	17:AQ:83:ASP:N	2.49	0.45
35:DA:221:A:O2'	35:DA:222:A:OP2	2.31	0.45
13:AM:46:LYS:HG3	13:AM:47:ASP:CG	2.37	0.45
1:AA:1406:U:C2'	1:AA:1407:C:H5'	2.47	0.45
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.79	0.45
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.51	0.45
46:DN:18:ALA:CB	46:DN:21:LYS:HG3	2.46	0.45
35:BA:580:C:H2'	35:BA:581:C:C6	2.52	0.45
39:DE:188:VAL:HG13	39:DE:188:VAL:O	2.16	0.45
35:DA:844:C:O2'	35:DA:845:G:H5'	2.16	0.45
55:DW:68:ARG:HG3	55:DW:68:ARG:NH1	2.31	0.45
9:AI:111:ARG:HD2	14:AN:61:TRP:OXT	2.16	0.45
11:CK:69:ALA:O	11:CK:73:MET:HG2	2.16	0.45
35:DA:523:C:C2'	35:DA:524:U:H5'	2.47	0.45
7:CG:116:ALA:O	7:CG:117:ALA:C	2.54	0.45
38:BD:7:LYS:O	38:BD:9:TYR:CD1	2.69	0.45
1:AA:647:C:H2'	1:AA:648:A:H8	1.81	0.45
35:DA:327:G:H2'	35:DA:328:U:C6	2.52	0.45
30:D5:32:PRO:HA	30:D5:38:ALA:O	2.16	0.45
1:CA:260:G:H2'	1:CA:261:U:C6	2.52	0.45
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.16	0.45
36:BB:112:U:H2'	36:BB:113:G:H8	1.81	0.45
35:BA:775:G:C4	35:BA:794:G:C8	3.05	0.45
24:AY:56:ARG:O	24:AY:60:ASP:N	2.49	0.45
35:DA:306:U:O2'	35:DA:307:G:H5'	2.16	0.45
38:BD:3:VAL:HG12	38:BD:4:LYS:N	2.32	0.45
41:DG:11:TYR:CZ	41:DG:16:ARG:HD3	2.51	0.45
31:B6:24:GLU:HA	31:B6:24:GLU:OE1	2.15	0.45
2:CB:19:HIS:CG	2:CB:20:GLU:H	2.34	0.45
40:DF:9:ILE:HA	40:DF:13:SER:O	2.17	0.45
59:D4:36:VAL:HB	59:D4:37:PRO:HD2	1.98	0.45
58:BZ:107:THR:O	58:BZ:108:PRO:O	2.34	0.45
41:BG:107:LEU:O	41:BG:112:PRO:HG2	2.17	0.45
24:AY:32:ARG:O	24:AY:34:GLU:N	2.49	0.45
54:BV:38:LEU:HD23	54:BV:39:LEU:H	1.79	0.45
31:D6:19:ARG:O	31:D6:20:ASN:O	2.35	0.45
35:BA:2174:C:O2'	35:BA:2175:C:H5'	2.16	0.45
46:BN:134:ARG:O	46:BN:134:ARG:HG3	2.16	0.45
60:DI:33:ARG:O	60:DI:35:LEU:N	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:25:MET:CB	48:DP:62:LEU:HD21	2.45	0.45
1:AA:1346:A:C4	7:AG:10:ARG:NH1	2.84	0.45
6:AF:8:ILE:HD12	6:AF:26:ILE:HD13	1.98	0.45
19:CS:12:ASP:HB3	19:CS:14:HIS:CE1	2.51	0.45
35:DA:2875:C:H4'	52:DT:5:ALA:CB	2.37	0.45
40:BF:185:ASP:OD1	40:BF:188:ARG:CZ	2.65	0.45
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.16	0.45
49:DQ:112:GLU:HG3	49:DQ:113:GLN:HG3	1.98	0.45
38:DD:142:VAL:CG2	38:DD:191:ALA:HB1	2.43	0.45
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.45	0.45
35:DA:389:G:O6	48:DP:71:VAL:HG23	2.16	0.45
48:DP:85:LEU:CD2	48:DP:88:LEU:HD23	2.46	0.45
46:BN:48:MET:N	46:BN:48:MET:HE3	2.25	0.45
46:DN:48:MET:N	46:DN:48:MET:HE3	2.25	0.45
1:CA:1416:G:H2'	1:CA:1417:G:O4'	2.16	0.45
24:CY:92:GLU:O	24:CY:96:LYS:HG3	2.17	0.45
47:BO:10:VAL:CG2	47:BO:16:ALA:O	2.60	0.45
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.17	0.45
1:CA:1507:A:C2	1:CA:1508:G:C4	3.04	0.45
34:D9:11:CYS:HB3	34:D9:12:ASP:H	1.63	0.45
9:AI:20:ARG:NH1	9:AI:20:ARG:HG3	2.29	0.45
1:CA:374:A:C6	1:CA:375:U:C4	3.05	0.45
16:CP:17:TYR:N	16:CP:17:TYR:CD1	2.84	0.45
1:AA:475:G:O2'	1:AA:476:G:H5'	2.16	0.45
16:AP:75:ARG:O	16:AP:78:GLY:N	2.41	0.45
36:BB:92:C:OP1	49:BQ:19:GLY:HA3	2.16	0.45
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.81	0.45
1:AA:270:A:H2'	1:AA:271:C:C6	2.51	0.45
30:B5:7:PRO:HA	35:BA:2615:U:N1	2.32	0.45
24:CY:332:ASP:HB2	24:CY:335:ASN:HB3	1.97	0.45
5:CE:72:GLN:O	5:CE:73:ASN:HB3	2.16	0.45
35:BA:1146:C:O2'	35:BA:1147:C:H5'	2.16	0.45
1:CA:1385:G:HO2'	1:CA:1386:G:H5'	1.81	0.45
35:BA:2850:A:H2'	35:BA:2851:A:H8	1.82	0.45
34:D9:19:ARG:HG3	34:D9:19:ARG:O	2.17	0.45
35:DA:654:A:H1'	35:DA:654(A):G:C1'	2.46	0.45
18:CR:74:ARG:HB3	18:CR:81:PHE:CZ	2.51	0.45
35:BA:581:C:O2'	35:BA:582:G:H5'	2.16	0.45
39:DE:104:VAL:HG11	39:DE:188:VAL:CG2	2.47	0.45
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.80	0.45
1:CA:158:G:O2'	1:CA:159:G:H5'	2.15	0.45
4:AD:100:ARG:NH2	4:AD:137:SER:HA	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:B0:69:PHE:CD2	25:B0:79:VAL:HG22	2.52	0.45
24:CY:140:TYR:OH	24:CY:183:GLU:HB3	2.16	0.45
38:DD:126:GLN:O	38:DD:193:VAL:HG11	2.17	0.45
43:BI:116:LEU:HD12	43:BI:117:GLU:H	1.80	0.45
1:AA:134:A:H61	16:AP:25:ARG:NH1	2.15	0.45
30:B5:32:PRO:HA	30:B5:38:ALA:O	2.17	0.45
15:CO:32:LEU:O	15:CO:35:ARG:N	2.50	0.45
36:DB:44:G:C2	36:DB:48:A:C2	3.05	0.45
57:DY:98:VAL:O	57:DY:99:CYS:SG	2.71	0.45
35:DA:196:A:OP2	48:DP:51:PHE:HE2	2.00	0.45
48:DP:48:PRO:O	48:DP:49:ARG:O	2.34	0.45
49:BQ:141:GLN:HE22	58:BZ:72:ARG:CA	2.26	0.45
33:D8:34:TRP:CD2	33:D8:35:GLN:N	2.85	0.45
24:AY:54:ARG:HG2	24:AY:101:LEU:CD2	2.46	0.45
1:AA:328:C:O2	1:AA:328:C:C2'	2.64	0.45
26:D1:68:PRO:O	26:D1:70:VAL:N	2.50	0.45
45:DK:17:ALA:O	45:DK:18:THR:CB	2.63	0.45
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	2.32	0.45
35:BA:784:A:C5'	38:BD:227:ASN:HD21	2.16	0.45
47:DO:107:ARG:CZ	52:DT:35:LYS:HD2	2.47	0.45
5:CE:136:MET:C	5:CE:138:ALA:H	2.19	0.45
8:CH:109:ILE:HG13	8:CH:122:ARG:HH21	1.78	0.45
1:AA:1117:G:O3'	9:AI:104:ARG:NH1	2.49	0.45
35:BA:2171:A:O2'	35:BA:2172:U:OP2	2.25	0.45
54:BV:21:ARG:HB3	54:BV:91:TYR:HD2	1.80	0.45
32:D7:8:ASN:HD21	32:D7:10:ARG:HB3	1.81	0.45
52:BT:3:ARG:O	52:BT:5:ALA:N	2.50	0.45
1:CA:106:C:O2'	1:CA:107:G:H5'	2.17	0.45
22:AW:62:C:O2'	22:AW:63:G:H5'	2.16	0.45
50:BR:2:ARG:CZ	50:BR:5:LYS:NZ	2.78	0.45
36:DB:82:G:H2'	36:DB:83:G:H8	1.81	0.45
35:DA:2533:A:H3'	35:DA:2534:A:H5''	1.98	0.45
48:BP:51:PHE:O	48:BP:52:GLU:O	2.35	0.45
51:BS:48:LEU:HD23	51:BS:82:ILE:HD11	1.98	0.45
20:CT:57:ARG:NH1	20:CT:102:GLY:CA	2.80	0.45
9:CI:2:GLU:N	9:CI:88:TYR:HH	2.13	0.45
51:DS:105:ALA:HB1	51:DS:107:GLU:OE1	2.17	0.45
39:DE:89:ASP:O	39:DE:90:THR:O	2.35	0.45
35:BA:2283:C:H2'	35:BA:2284:C:C5'	2.36	0.45
5:AE:36:ASP:OD1	5:AE:38:GLN:HB2	2.16	0.45
1:AA:737:A:H2'	1:AA:738:C:H6	1.81	0.45
5:CE:71:LEU:HD21	5:CE:115:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:112:ALA:HA	24:AY:177:TYR:HD2	1.82	0.45
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.79	0.45
49:BQ:43:THR:HG1	49:BQ:46:GLN:HG3	1.79	0.45
1:CA:1404:C:O4'	1:CA:1499:A:C2	2.69	0.45
50:BR:44:LEU:CD1	50:BR:48:VAL:HG23	2.46	0.45
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.32	0.45
39:DE:76:ARG:O	39:DE:77:ILE:C	2.54	0.45
58:BZ:80:ARG:NH1	58:BZ:82:ARG:HH21	2.15	0.45
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.51	0.45
24:AY:186:VAL:C	24:AY:187:HIS:HD2	2.20	0.45
1:CA:1013:G:N2	1:CA:1016:A:OP2	2.50	0.45
35:BA:272:G:O6	35:BA:421:U:H2'	2.17	0.45
35:BA:321:G:N2	40:BF:165:ARG:HH12	2.15	0.45
11:CK:86:GLY:O	11:CK:91:ARG:NH1	2.49	0.45
40:DF:104:LYS:O	40:DF:108:LYS:HG3	2.16	0.45
20:CT:25:ARG:HH11	20:CT:25:ARG:HG3	1.82	0.45
50:BR:84:ALA:N	50:BR:85:PRO:CD	2.78	0.45
8:CH:44:PHE:HA	8:CH:79:VAL:CG1	2.46	0.45
54:BV:77:ALA:O	54:BV:79:VAL:HG23	2.16	0.45
56:DX:43:VAL:O	56:DX:47:PHE:HD1	2.00	0.45
1:CA:757:U:OP1	1:CA:822:C:O2'	2.34	0.45
35:DA:1068:G:H21	35:DA:1096:A:H5'	1.81	0.45
35:BA:2223:G:O2'	35:BA:2224:G:H5'	2.15	0.45
6:AF:24:GLU:HG3	6:AF:25:ILE:H	1.80	0.45
1:AA:132:C:O2'	1:AA:133:U:H5'	2.16	0.45
1:AA:1260:C:H5	1:AA:1274:G:H1	1.62	0.45
35:BA:247:G:H4'	35:BA:386:G:C6	2.52	0.45
7:AG:16:LEU:HD13	9:AI:42:ARG:HA	1.97	0.45
1:CA:913:A:O2'	1:CA:914:A:OP2	2.34	0.45
35:BA:2087:G:C2'	35:BA:2088:G:H5'	2.47	0.45
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.98	0.45
35:BA:956:G:N2	35:BA:959:A:H3'	2.32	0.45
24:CY:346:TRP:O	24:CY:347:ALA:C	2.54	0.45
48:DP:13:ASN:ND2	48:DP:13:ASN:N	2.65	0.45
20:CT:9:ASN:OD1	20:CT:10:LEU:N	2.49	0.45
35:DA:1624:G:O2'	35:DA:1625:C:H5'	2.15	0.45
13:AM:44:ARG:CB	13:AM:46:LYS:HG2	2.47	0.45
35:DA:2234:G:O2'	35:DA:2235:G:H5'	2.17	0.45
35:BA:1655:A:H3'	35:BA:1656:C:C6	2.52	0.45
25:D0:25:ARG:HD3	25:D0:29:GLN:NE2	2.32	0.45
38:BD:197:GLY:O	38:BD:198:ASN:C	2.54	0.45
24:AY:264:THR:HG22	24:AY:265:THR:N	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:96:LEU:O	13:CM:110:ARG:NE	2.45	0.45
36:BB:70:C:O2'	36:BB:71:C:H5'	2.17	0.45
51:DS:42:ASP:C	51:DS:44:LYS:N	2.69	0.45
1:CA:584:G:H2'	1:CA:585:G:H8	1.82	0.45
38:DD:7:LYS:O	38:DD:9:TYR:CD1	2.69	0.45
1:CA:1162:C:O2'	1:CA:1163:C:H5'	2.17	0.45
35:BA:732:C:H2'	35:BA:733:G:O4'	2.17	0.45
35:DA:13:A:H61	35:DA:525:U:H3'	1.81	0.45
35:BA:2300:G:O2'	35:BA:2301:C:H5'	2.17	0.45
43:BI:102:SER:O	43:BI:106:GLY:HA2	2.17	0.45
44:BJ:70:UNK:O	44:BJ:72:UNK:N	2.50	0.45
35:DA:1281:G:H5'	35:DA:1282:U:OP2	2.16	0.45
35:BA:466:A:N3	35:BA:683:C:H1'	2.31	0.45
2:CB:114:ARG:CZ	2:CB:118:LEU:HD21	2.47	0.45
35:BA:1839:G:H8	35:BA:1839:G:H5'	1.82	0.45
8:AH:40:ALA:HB2	8:AH:45:ILE:HG13	1.98	0.45
36:BB:48:A:H2'	36:BB:49:C:C6	2.52	0.45
57:BY:81:LYS:O	57:BY:82:PRO:O	2.34	0.45
33:B8:60:LEU:O	33:B8:63:PRO:HG2	2.16	0.45
35:DA:1884:A:C3'	35:DA:1885:A:H5''	2.47	0.45
48:BP:27:HIS:N	48:BP:30:THR:OG1	2.50	0.45
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.16	0.45
60:DI:79:ILE:HG22	60:DI:80:PRO:HD2	1.98	0.45
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.82	0.45
35:BA:2302:G:H2'	35:BA:2303:G:H5'	1.97	0.45
41:BG:139:LEU:C	41:BG:141:PHE:N	2.70	0.45
50:DR:17:ARG:HH11	50:DR:17:ARG:HG2	1.82	0.45
35:DA:2092:U:C5	35:DA:2226:C:OP2	2.70	0.45
54:BV:47:VAL:CG1	54:BV:49:THR:O	2.60	0.45
9:CI:48:GLU:C	9:CI:50:LEU:N	2.67	0.45
9:CI:99:LEU:HD12	9:CI:101:PHE:HE1	1.82	0.45
31:D6:40:CYS:SG	31:D6:45:LYS:NZ	2.87	0.45
45:DK:20:ALA:N	45:DK:21:PRO:CD	2.80	0.45
35:DA:784:A:N7	38:DD:229:VAL:HG21	2.31	0.45
5:AE:136:MET:C	5:AE:138:ALA:N	2.70	0.45
56:BX:11:PRO:HA	56:BX:28:PHE:CB	2.31	0.45
47:DO:104:ARG:HH21	52:DT:33:LYS:CE	2.30	0.45
51:DS:89:ARG:HB3	51:DS:92:TYR:HB2	1.96	0.45
48:BP:58:THR:HG23	48:BP:58:THR:O	2.16	0.45
46:DN:28:THR:O	46:DN:31:ALA:HB3	2.17	0.45
2:CB:219:VAL:O	2:CB:222:ILE:HB	2.16	0.45
2:AB:31:TYR:CD1	2:AB:202:PRO:HB3	2.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:9:VAL:C	19:AS:10:PHE:CD1	2.90	0.45
54:BV:99:ILE:CD1	54:BV:99:ILE:N	2.78	0.45
39:BE:4:ILE:HG21	39:BE:96:PHE:HE2	1.81	0.45
35:DA:330:A:O2'	35:DA:331:A:C8	2.67	0.45
27:D2:55:ARG:O	27:D2:56:GLN:C	2.54	0.45
1:AA:389:A:H2'	1:AA:390:C:H5'	1.98	0.45
24:CY:287:GLU:C	24:CY:289:LYS:H	2.20	0.45
6:CF:2:ARG:HB2	6:CF:4:TYR:CZ	2.52	0.45
7:AG:17:VAL:HG21	7:AG:44:TYR:CE1	2.52	0.45
7:CG:15:ASP:O	7:CG:19:GLY:HA2	2.17	0.45
8:CH:6:ILE:HG23	8:CH:10:LEU:HD21	1.99	0.45
1:AA:1429:C:H4'	35:BA:1703:G:O2'	2.17	0.45
46:BN:43:THR:HB	46:BN:46:VAL:CG1	2.47	0.45
51:BS:58:LEU:HD21	51:BS:68:GLN:HB2	1.98	0.45
46:DN:43:THR:HB	46:DN:46:VAL:CG1	2.47	0.45
51:DS:59:LYS:NZ	51:DS:68:GLN:HE22	2.15	0.45
35:DA:1639:U:HO2'	35:DA:1640:C:H5''	1.80	0.45
35:BA:2200:C:H5'	35:BA:2201:C:OP2	2.16	0.45
42:BH:148:ILE:HA	42:BH:151:ILE:HG12	1.98	0.45
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.52	0.45
24:CY:307:TRP:C	24:CY:309:SER:H	2.19	0.45
2:AB:82:ARG:HA	2:AB:92:TYR:HE1	1.79	0.45
9:CI:20:ARG:O	9:CI:60:ASP:N	2.50	0.45
1:CA:1303:C:H2'	1:CA:1304:G:H5'	1.99	0.45
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.17	0.45
43:BI:27:ARG:O	43:BI:32:PRO:CG	2.65	0.45
8:AH:20:TYR:HE2	8:AH:75:ARG:HB3	1.81	0.45
42:DH:121:ILE:HD11	42:DH:140:LYS:HG2	1.99	0.45
2:CB:91:PRO:CG	2:CB:155:LEU:HB2	2.44	0.45
2:AB:91:PRO:CG	2:AB:155:LEU:HB2	2.45	0.45
21:AU:6:ARG:NH2	21:AU:15:ARG:HH21	2.13	0.45
20:AT:73:HIS:O	20:AT:74:LYS:CB	2.64	0.45
2:CB:96:ARG:N	2:CB:96:ARG:CD	2.79	0.45
35:BA:910:A:H62	49:BQ:12:GLN:HA	1.81	0.45
35:BA:2536:G:C6	35:BA:2537:U:C4	3.04	0.45
39:DE:98:PRO:HD3	39:DE:175:VAL:HG12	1.98	0.45
45:BK:73:PRO:C	45:BK:75:SER:N	2.69	0.45
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.46	0.45
3:AC:28:GLN:HA	3:AC:31:HIS:HD2	1.82	0.45
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.52	0.45
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.52	0.45
9:AI:118:LYS:HZ2	9:AI:118:LYS:CB	2.30	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:66:GLY:HA2	42:DH:69:ARG:CB	2.47	0.45
50:DR:37:THR:OG1	50:DR:39:PRO:HD2	2.16	0.45
1:CA:495:A:H4'	1:CA:496:A:O5'	2.17	0.45
1:AA:596:C:H2'	1:AA:597:G:C8	2.52	0.45
35:BA:1376:C:O2'	35:BA:1377:G:H5'	2.16	0.45
46:DN:119:ARG:CB	46:DN:119:ARG:HH11	2.30	0.45
3:CC:126:ARG:O	3:CC:127:ARG:HB2	2.17	0.45
40:BF:129:PHE:HE1	40:BF:142:TRP:CH2	2.35	0.45
36:BB:114:C:O2'	36:BB:115:G:H5'	2.16	0.45
13:CM:46:LYS:HG3	13:CM:47:ASP:CG	2.36	0.45
50:DR:53:HIS:O	50:DR:56:LYS:HB3	2.16	0.45
36:BB:50:G:C2	36:BB:51:G:H1'	2.51	0.45
11:AK:126:ARG:CB	11:AK:126:ARG:NH1	2.79	0.45
1:CA:26:A:O2'	4:CD:209:ARG:NH1	2.47	0.45
4:CD:91:SER:O	4:CD:94:LEU:N	2.50	0.45
52:BT:1:MET:CG	52:BT:2:ASN:H	2.29	0.45
37:BC:20:TYR:O	37:BC:22:ILE:HG12	2.17	0.45
25:D0:71:ASP:C	25:D0:73:GLY:H	2.20	0.45
51:BS:22:GLY:O	51:BS:23:ARG:O	2.34	0.45
35:DA:703:U:C2'	35:DA:704:G:H5'	2.47	0.45
35:DA:15:G:O2'	35:DA:16:G:H5'	2.16	0.45
1:AA:584:G:H2'	1:AA:585:G:C8	2.52	0.45
1:AA:788:U:H2'	1:AA:789:U:O4'	2.16	0.45
13:AM:105:THR:O	13:AM:106:ASN:C	2.55	0.45
35:BA:1234:U:H2'	35:BA:1235:G:O4'	2.17	0.45
53:DU:60:LEU:HD13	53:DU:60:LEU:C	2.36	0.45
36:DB:50:G:C2	36:DB:51:G:H1'	2.51	0.45
35:BA:2359:C:H2'	35:BA:2360:A:O4'	2.16	0.45
35:BA:2758:A:C3'	35:BA:2759:G:C5'	2.95	0.45
58:DZ:166:SER:HB2	58:DZ:167:PRO:O	2.17	0.45
35:BA:2287:A:O2'	35:BA:2288:A:H3'	2.17	0.45
35:DA:480:A:H2	35:DA:499:U:O2	2.00	0.45
40:BF:26:ALA:O	40:BF:27:GLU:CG	2.61	0.45
13:CM:84:ILE:CG1	19:CS:66:MET:HE2	2.46	0.45
19:CS:66:MET:HB2	19:CS:74:PHE:CZ	2.51	0.45
55:DW:92:ARG:NH1	55:DW:94:ASP:OD2	2.50	0.45
40:DF:83:PHE:O	40:DF:84:VAL:CB	2.63	0.45
52:DT:23:ARG:HA	52:DT:52:ILE:CD1	2.46	0.45
4:CD:36:ARG:HB3	4:CD:38:TYR:CZ	2.52	0.45
24:AY:38:LEU:N	24:AY:38:LEU:HD13	2.32	0.45
2:AB:181:PHE:HE1	8:AH:71:GLY:H	1.65	0.45
25:D0:12:ASN:C	25:D0:14:ARG:N	2.70	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:158:HIS:CD2	42:DH:170:ARG:HA	2.50	0.45
57:BY:30:VAL:CG1	57:BY:31:LEU:N	2.80	0.45
35:BA:2534:A:H2'	35:BA:2535:G:O5'	2.17	0.45
48:BP:57:THR:HG23	48:BP:59:LEU:CB	2.42	0.45
24:CY:54:ARG:HA	24:CY:57:ARG:HG3	1.98	0.45
24:CY:65:LEU:HA	24:CY:68:ASP:HB3	1.96	0.45
1:AA:954:G:O3'	13:AM:120:LYS:HD3	2.17	0.45
35:DA:142:A:H5'	35:DA:142(A):C:OP2	2.17	0.45
52:DT:6:LEU:HD23	52:DT:6:LEU:C	2.37	0.45
1:CA:50:A:N6	1:CA:361:G:H4'	2.32	0.45
42:DH:125:VAL:CG1	42:DH:125:VAL:O	2.61	0.45
42:BH:79:VAL:C	42:BH:81:GLU:H	2.21	0.45
1:AA:939:G:H2'	1:AA:940:C:C6	2.52	0.45
3:AC:89:GLU:HG3	3:AC:93:LYS:HZ2	1.78	0.45
19:CS:6:LYS:CD	19:CS:7:LYS:HE3	2.47	0.45
1:AA:1328:C:H5''	13:AM:28:ALA:HB1	1.98	0.45
1:CA:386:C:C2'	1:CA:387:U:H5'	2.47	0.45
35:DA:819:A:OP2	35:DA:1187:G:N2	2.40	0.45
24:CY:315:VAL:O	24:CY:315:VAL:HG23	2.17	0.45
1:CA:735:C:HO2'	1:CA:736:C:H5'	1.80	0.45
4:AD:120:LEU:O	4:AD:125:HIS:HB2	2.17	0.45
46:BN:56:ASN:HA	46:BN:124:ALA:O	2.17	0.45
24:CY:40:ASN:C	24:CY:42:PRO:CD	2.83	0.45
39:DE:51:PHE:H	39:DE:74:PRO:HB2	1.82	0.45
35:BA:2379:G:H2'	35:BA:2380:C:C6	2.52	0.45
1:AA:724:G:C2	1:AA:725:G:C8	3.04	0.45
24:CY:97:LYS:C	24:CY:99:ASP:N	2.68	0.45
1:CA:1052:U:H2'	1:CA:1055:A:OP1	2.16	0.45
11:AK:46:GLY:O	11:AK:48:ILE:O	2.34	0.45
34:B9:7:VAL:HA	34:B9:34:GLN:NE2	2.32	0.45
45:DK:55:VAL:CG2	45:DK:67:PHE:HB2	2.47	0.45
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.43	0.45
25:D0:43:THR:CG2	35:DA:2336:A:H61	2.29	0.45
24:AY:140:TYR:CE1	24:AY:183:GLU:HG3	2.50	0.45
24:AY:256:THR:HB	24:AY:258:ILE:HG23	1.99	0.45
35:DA:1979:C:O2'	35:DA:1980:G:H5'	2.17	0.45
39:DE:131:ALA:HB1	39:DE:133:LYS:CG	2.44	0.45
42:DH:20:ALA:HB3	42:DH:23:ARG:CB	2.45	0.45
35:DA:2476:A:C2	35:DA:2477:C:C5	3.05	0.45
36:DB:7:G:C3'	36:DB:8:U:C5'	2.92	0.45
15:AO:64:ARG:HD3	15:AO:68:ARG:NH2	2.31	0.45
3:CC:64:VAL:HG12	3:CC:66:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:85:LYS:CD	4:CD:86:LYS:H	2.25	0.45
1:CA:1061:G:H5'	10:CJ:59:SER:OG	2.16	0.45
40:BF:187:VAL:HG13	48:BP:5:ASP:O	2.16	0.45
11:AK:32:ILE:HD12	11:AK:72:ALA:HB2	1.98	0.45
35:DA:2115:G:C3'	35:DA:2116:G:H5'	2.47	0.45
58:BZ:128:VAL:HG23	58:BZ:132:ASN:HD22	1.81	0.45
1:CA:262:A:H2'	1:CA:263:A:C8	2.52	0.45
5:AE:31:LEU:HD23	5:AE:45:PHE:HB2	1.97	0.45
48:DP:75:ILE:HD12	48:DP:75:ILE:N	2.32	0.45
35:BA:2862:G:O2'	35:BA:2863:C:H5'	2.16	0.45
35:DA:1100:C:H2'	35:DA:1101:U:C5'	2.47	0.45
47:DO:71:ARG:HH11	47:DO:71:ARG:HG3	1.82	0.45
24:CY:270:LYS:O	24:CY:274:LEU:HD13	2.16	0.45
35:DA:959:A:O2'	35:DA:960:A:H5'	2.16	0.45
37:BC:103:ILE:C	37:BC:105:ASP:N	2.68	0.45
35:BA:1853:A:H2'	35:BA:1854:A:C8	2.52	0.45
35:DA:1652:A:H2'	35:DA:1653:G:H5'	1.99	0.45
1:AA:913:A:H1'	1:AA:914:A:O4'	2.17	0.45
46:BN:65:LYS:HB2	46:BN:69:GLN:HG3	1.98	0.45
3:CC:5:ILE:C	3:CC:5:ILE:HD12	2.37	0.45
35:BA:1335:U:O2'	35:BA:1336:A:H5'	2.17	0.45
30:D5:42:PRO:O	30:D5:43:HIS:HB2	2.17	0.45
22:AV:59:U:H2'	22:AV:60:U:O4'	2.16	0.45
7:AG:116:ALA:O	7:AG:117:ALA:C	2.55	0.45
4:AD:208:SER:O	4:AD:209:ARG:C	2.54	0.45
1:CA:477:A:H2'	1:CA:479:C:H6	1.82	0.45
35:DA:803:U:O2'	35:DA:804:A:H5'	2.17	0.45
36:DB:50:G:OP2	51:DS:62:LYS:HB3	2.17	0.45
1:AA:1181:G:C6	1:AA:1182:G:C2	3.05	0.45
1:CA:1264:C:O2	1:CA:1272:G:C2	2.70	0.45
35:DA:2623:G:H4'	35:DA:2825:C:O2	2.16	0.45
35:DA:244:A:C2	35:DA:255:A:C4	3.05	0.45
10:AJ:64:GLU:HG2	14:AN:59:ALA:HB2	1.99	0.45
35:BA:1477:A:H5'	35:BA:1478:G:OP2	2.17	0.45
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.81	0.45
35:DA:2748:A:O2'	42:DH:63:SER:HA	2.16	0.45
1:CA:656:C:O2'	1:CA:657:G:H5'	2.16	0.45
35:DA:2128:C:OP1	37:DC:35:ALA:HB1	2.16	0.45
35:DA:1681:G:OP2	35:DA:1681:G:H8	2.00	0.45
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.32	0.45
35:BA:2518:A:C8	35:BA:2518:A:H5'	2.51	0.45
35:BA:1681:G:OP2	35:BA:1681:G:H8	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:148:LEU:HD21	40:BF:191:ARG:NH1	2.32	0.45
35:DA:1858:G:HO2'	35:DA:1859:A:H8	1.62	0.45
35:DA:309:G:N3	35:DA:329:G:O2'	2.50	0.45
26:B1:52:ARG:O	26:B1:53:VAL:HB	2.17	0.45
51:DS:97:ARG:CZ	51:DS:98:VAL:HA	2.38	0.45
58:BZ:102:LEU:CD1	58:BZ:124:ILE:HG22	2.47	0.45
58:BZ:72:ARG:O	58:BZ:73:GLN:HB3	2.17	0.45
29:B4:57:ILE:HG22	29:B4:59:VAL:CG2	2.47	0.45
31:B6:52:VAL:CG1	31:B6:53:LYS:N	2.79	0.45
33:B8:34:TRP:CD2	33:B8:35:GLN:N	2.85	0.45
33:D8:32:LEU:H	33:D8:32:LEU:CD1	2.20	0.45
1:AA:374:A:C6	1:AA:375:U:C4	3.04	0.45
30:D5:3:LYS:HD2	35:DA:747:U:OP1	2.16	0.45
4:CD:194:LEU:N	4:CD:194:LEU:CD2	2.79	0.45
58:BZ:140:ASP:O	58:BZ:141:VAL:O	2.35	0.45
24:AY:42:PRO:O	24:AY:45:ALA:CB	2.65	0.45
54:DV:38:LEU:HD12	54:DV:56:SER:N	2.31	0.45
48:DP:112:LEU:C	48:DP:112:LEU:HD23	2.37	0.45
35:BA:360:G:H2'	35:BA:361:G:H8	1.82	0.45
37:BC:83:ILE:HG23	37:BC:87:GLU:OE2	2.17	0.45
38:BD:242:ARG:HH11	38:BD:242:ARG:HG2	1.81	0.45
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.85	0.45
9:CI:46:ALA:HB2	9:CI:74:ILE:CG2	2.47	0.45
31:B6:19:ARG:O	31:B6:20:ASN:O	2.34	0.45
35:DA:1902:C:O2'	38:DD:244:ARG:HD3	2.16	0.45
22:CW:26:A:H2'	22:CW:27:G:O4'	2.17	0.45
51:BS:20:ARG:NH1	51:BS:20:ARG:HG2	2.31	0.45
57:DY:29:GLU:N	57:DY:29:GLU:CD	2.70	0.45
9:AI:43:ALA:CA	9:AI:74:ILE:HD13	2.47	0.45
50:DR:33:ARG:HB3	50:DR:113:LEU:HD11	1.98	0.45
47:BO:53:LYS:HG2	47:BO:56:ASP:OD1	2.17	0.45
49:BQ:5:ARG:O	49:BQ:6:ARG:HD3	2.17	0.45
52:DT:64:ARG:HD2	52:DT:73:GLU:OE2	2.16	0.45
3:CC:105:GLU:CG	3:CC:106:VAL:H	2.20	0.45
35:BA:1203:G:C5'	48:BP:7:ARG:HD3	2.47	0.45
35:DA:1211:U:H4'	35:DA:1212:G:OP2	2.17	0.45
2:CB:36:ARG:HB2	2:CB:41:ILE:HD11	1.99	0.45
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.47	0.45
19:AS:5:LEU:H	19:AS:6:LYS:HZ1	1.63	0.45
38:DD:187:GLY:C	38:DD:189:CYS:H	2.20	0.45
35:DA:2103:C:H3'	35:DA:2104:G:C5'	2.38	0.45
38:BD:186:HIS:HB3	38:BD:189:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:20:ASP:HB3	7:AG:23:VAL:CG2	2.47	0.45
35:DA:773:U:H5'	38:DD:47:GLY:HA3	1.97	0.45
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.17	0.45
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	1.99	0.45
35:DA:218:A:C2	35:DA:235:U:H4'	2.52	0.45
28:D3:13:ILE:N	28:D3:13:ILE:CD1	2.79	0.45
35:DA:848:G:N9	35:DA:933:A:H8	2.14	0.45
1:CA:626:U:H5''	16:CP:38:TYR:CD2	2.52	0.45
16:AP:21:VAL:O	16:AP:33:ILE:HB	2.17	0.45
12:AL:70:ILE:HG12	12:AL:100:ILE:CD1	2.46	0.45
17:CQ:68:ARG:O	17:CQ:69:LYS:HB2	2.16	0.45
17:AQ:59:ILE:HG22	17:AQ:60:ILE:N	2.32	0.45
40:DF:132:VAL:O	40:DF:133:ASN:C	2.55	0.45
50:BR:54:LEU:HD23	50:BR:66:VAL:HG23	1.98	0.45
35:BA:952:G:C6	35:BA:953:A:N7	2.85	0.45
39:DE:16:ARG:NH1	39:DE:171:GLU:OE2	2.48	0.45
36:BB:64:C:H2'	36:BB:65:C:C6	2.52	0.45
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.97	0.45
36:DB:60:C:H2'	36:DB:61:G:C8	2.44	0.45
1:CA:1498:U:H4'	1:CA:1519:A:C2	2.52	0.45
1:AA:181:G:N2	1:AA:183:G:N2	2.62	0.45
1:AA:262:A:H2'	1:AA:263:A:C8	2.52	0.45
24:CY:286:LEU:O	24:CY:286:LEU:CD2	2.65	0.45
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.97	0.45
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.55	0.45
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	2.16	0.45
1:CA:46:G:O2'	1:CA:365:U:H1'	2.17	0.45
1:CA:184:G:H5'	1:CA:224:C:H4'	1.98	0.45
52:BT:48:ILE:HD12	52:BT:48:ILE:N	2.31	0.45
1:AA:269:C:H2'	1:AA:270:A:C8	2.52	0.45
41:DG:139:LEU:CD2	41:DG:139:LEU:N	2.78	0.45
45:BK:14:ALA:C	45:BK:45:THR:HG21	2.38	0.45
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.17	0.45
41:BG:70:VAL:HG12	41:BG:71:THR:H	1.82	0.45
35:BA:1056:G:H4'	35:BA:1086:A:C8	2.52	0.45
1:CA:922:G:C2	1:CA:1396:A:C2	3.05	0.45
35:BA:2115:G:C3'	35:BA:2116:G:H5'	2.47	0.45
35:DA:2552:U:C2	35:DA:2554:U:H5'	2.52	0.45
35:BA:2403:C:O2	35:BA:2403:C:H2'	2.17	0.45
1:CA:174:C:H2'	1:CA:175:C:C6	2.51	0.45
35:DA:1668:A:H61	35:DA:1676:A:H61	1.64	0.45
14:AN:37:PHE:H	14:AN:37:PHE:HD2	1.63	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:170:ALA:O	37:DC:171:ILE:C	2.55	0.45
35:BA:1911:U:H2'	35:BA:1918:A:N1	2.32	0.45
10:AJ:29:ARG:O	10:AJ:29:ARG:HG2	2.16	0.45
35:DA:918:A:O3'	36:DB:97:G:N2	2.50	0.45
35:DA:304:G:H2'	35:DA:305:U:C6	2.52	0.45
58:DZ:14:LYS:O	58:DZ:17:ALA:N	2.50	0.45
35:BA:1281:G:H5'	35:BA:1282:U:OP2	2.17	0.45
1:CA:1181:G:C6	1:CA:1182:G:C2	3.05	0.45
35:BA:652:C:HO2'	35:BA:653:A:P	2.39	0.45
37:DC:154:ARG:C	37:DC:156:ILE:H	2.19	0.45
24:AY:127:THR:CG2	24:AY:162:ALA:HB3	2.47	0.45
14:AN:44:LEU:HD23	14:AN:44:LEU:C	2.37	0.45
1:CA:936:C:H2'	1:CA:937:A:O4'	2.16	0.45
1:CA:936:C:H2'	1:CA:937:A:H8	1.81	0.45
25:B0:72:ARG:O	25:B0:75:LEU:HB2	2.16	0.45
35:BA:975:C:O2	35:BA:975:C:H2'	2.16	0.45
16:CP:80:PHE:N	16:CP:80:PHE:CD1	2.84	0.45
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.52	0.45
35:DA:1588:C:H2'	35:DA:1589:C:H6	1.82	0.45
39:DE:38:THR:HG23	39:DE:41:LYS:HD2	1.99	0.45
41:DG:14:GLU:C	41:DG:17:PRO:HD2	2.38	0.45
1:AA:356:A:C2	1:AA:357:G:C1'	2.97	0.45
35:BA:547:A:H2'	35:BA:548:A:C8	2.52	0.45
30:B5:3:LYS:HD2	35:BA:747:U:OP1	2.17	0.45
30:B5:49:CYS:O	30:B5:50:GLY:C	2.54	0.45
58:BZ:146:ILE:HG13	58:BZ:147:GLY:N	2.26	0.45
41:BG:135:LEU:HD11	41:BG:157:ILE:HD11	1.99	0.45
52:DT:80:SER:O	52:DT:82:LEU:HD12	2.17	0.45
24:AY:33:LEU:HD13	35:BA:1095:A:H61	1.82	0.45
35:DA:2206:G:H3'	35:DA:2207:G:C5'	2.47	0.45
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.52	0.45
31:B6:37:ARG:CG	31:B6:37:ARG:HH11	2.30	0.45
35:BA:995:C:C6	53:BU:57:PHE:HE1	2.35	0.45
51:BS:91:PRO:O	51:BS:93:LYS:N	2.50	0.45
57:DY:27:VAL:CB	57:DY:29:GLU:OE1	2.65	0.45
9:AI:48:GLU:C	9:AI:50:LEU:N	2.67	0.45
9:AI:43:ALA:HA	9:AI:74:ILE:HG21	1.99	0.45
4:AD:133:VAL:HG13	4:AD:135:LEU:CD2	2.47	0.45
19:CS:9:VAL:C	19:CS:10:PHE:CD1	2.91	0.45
7:AG:50:ILE:HG22	7:AG:51:GLN:N	2.31	0.45
4:CD:133:VAL:HG13	4:CD:135:LEU:CD2	2.47	0.45
47:DO:53:LYS:HG2	47:DO:56:ASP:OD1	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:64:ILE:HG12	40:DF:65:TRP:CD1	2.52	0.45
35:BA:1080:C:H2'	35:BA:1081:U:C6	2.46	0.45
22:CW:53:G:N2	22:CW:62:C:H42	2.15	0.45
20:AT:104:LEU:C	20:AT:104:LEU:HD23	2.38	0.45
38:BD:187:GLY:C	38:BD:189:CYS:H	2.21	0.45
9:AI:9:ARG:HA	9:AI:13:ALA:O	2.17	0.45
4:AD:125:HIS:O	4:AD:126:ILE:HD13	2.17	0.45
57:DY:68:HIS:C	57:DY:70:SER:H	2.20	0.45
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.82	0.45
5:CE:70:PRO:HG2	5:CE:142:LEU:O	2.16	0.45
35:DA:1107:G:H2'	35:DA:1108:U:H6	1.81	0.45
35:DA:2832:U:O4	35:DA:2883:A:H5''	2.17	0.45
35:DA:2836:U:C4	35:DA:2883:A:N6	2.85	0.45
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.17	0.45
47:DO:63:VAL:HB	47:DO:102:VAL:HG12	1.98	0.45
7:AG:109:ASN:C	7:AG:111:ARG:H	2.19	0.45
2:CB:100:GLY:O	2:CB:105:PHE:N	2.49	0.45
2:CB:170:GLU:O	2:CB:173:ALA:HB3	2.17	0.45
17:CQ:64:PRO:HA	17:CQ:70:ARG:HG3	1.97	0.45
35:BA:517:C:O2'	55:BW:18:ARG:NH2	2.50	0.45
35:DA:2023:G:H4'	35:DA:2617:C:O3'	2.16	0.45
35:DA:2468:G:N2	35:DA:2481:G:O2'	2.49	0.45
1:AA:1504:G:H3'	1:AA:1504:G:P	2.57	0.45
36:DB:64:C:H2'	36:DB:65:C:C6	2.51	0.45
24:AY:189:LEU:HB3	24:AY:204:SER:HB2	1.99	0.45
2:CB:92:TYR:HE2	2:CB:151:GLY:CA	2.29	0.45
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.17	0.45
35:BA:990:A:OP2	35:BA:991:C:OP2	2.34	0.45
42:BH:84:SER:O	42:BH:85:LYS:HB3	2.16	0.45
44:DJ:65:UNK:C	44:DJ:67:UNK:N	2.73	0.45
29:B4:36:VAL:HG22	29:B4:52:SER:O	2.17	0.45
35:DA:626:U:N3	48:DP:105:LEU:HB3	2.32	0.45
1:CA:1255:G:H5'	3:CC:26:LYS:HE3	1.99	0.45
35:DA:2840:C:O2'	35:DA:2841:C:H5'	2.17	0.45
7:CG:16:LEU:HD13	9:CI:42:ARG:HA	1.97	0.45
37:BC:65:PRO:HG2	37:BC:189:ILE:CB	2.46	0.45
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.52	0.45
18:CR:23:LYS:C	18:CR:25:THR:H	2.20	0.45
35:DA:2741:A:H2'	35:DA:2742:C:O4'	2.17	0.45
35:DA:2403:C:H2'	35:DA:2403:C:O2	2.16	0.45
6:CF:42:GLU:C	6:CF:44:GLY:N	2.69	0.45
11:AK:96:ARG:HA	11:AK:99:GLN:CG	2.47	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:844:C:O2'	35:BA:845:G:H5'	2.17	0.45
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.65	0.45
39:BE:98:PRO:HD3	39:BE:175:VAL:CG1	2.47	0.45
11:CK:70:LYS:HA	11:CK:73:MET:HG2	1.99	0.45
35:DA:2777:G:H5''	35:DA:2778:A:C5'	2.47	0.45
49:DQ:52:VAL:O	49:DQ:53:ALA:C	2.54	0.45
20:AT:82:SER:O	20:AT:86:ARG:HD2	2.16	0.45
44:BJ:72:UNK:O	44:BJ:73:UNK:CB	2.66	0.45
35:BA:263:C:H2'	35:BA:264:C:O4'	2.17	0.45
37:BC:154:ARG:C	37:BC:156:ILE:H	2.20	0.45
56:BX:73:ARG:HB3	56:BX:74:PRO:HD2	1.99	0.45
35:DA:2063:C:O2	35:DA:2450:A:N1	2.50	0.45
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	1.99	0.45
35:DA:436:C:H2'	35:DA:437:G:H8	1.82	0.45
1:CA:647:C:H2'	1:CA:648:A:H8	1.81	0.45
56:DX:54:VAL:HG22	56:DX:81:VAL:HG12	1.99	0.45
35:DA:2771:C:H2'	35:DA:2772:C:C6	2.52	0.45
35:DA:836:G:C5	35:DA:837:C:C4	3.05	0.45
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.80	0.45
58:BZ:131:ARG:HH11	58:BZ:131:ARG:HG2	1.82	0.45
35:BA:1983:C:O2'	35:BA:1984:G:H5'	2.17	0.45
26:D1:80:LEU:HD13	26:D1:82:LEU:CD2	2.47	0.44
26:D1:80:LEU:HD13	26:D1:82:LEU:CG	2.47	0.44
36:DB:43:C:H5'	36:DB:44:G:OP2	2.17	0.44
58:BZ:101:PRO:HA	58:BZ:123:ASP:HB3	1.98	0.44
58:DZ:109:ALA:O	58:DZ:111:VAL:N	2.49	0.44
48:BP:23:PRO:HD2	48:BP:33:ARG:NE	2.31	0.44
4:AD:194:LEU:N	4:AD:194:LEU:CD2	2.80	0.44
30:D5:45:VAL:HG13	30:D5:50:GLY:O	2.17	0.44
60:DI:86:THR:CG2	60:DI:122:GLU:HG3	2.41	0.44
33:B8:14:VAL:HG22	33:B8:22:VAL:HG13	1.98	0.44
42:BH:44:VAL:CG1	42:BH:45:VAL:N	2.71	0.44
52:DT:29:ARG:NH1	52:DT:46:GLU:OE1	2.46	0.44
48:DP:115:LEU:C	48:DP:115:LEU:CD1	2.85	0.44
35:DA:1493:C:C4	35:DA:2206:G:O2'	2.70	0.44
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.52	0.44
25:D0:51:VAL:CA	25:D0:62:LEU:HD12	2.48	0.44
1:AA:558:G:C3'	1:AA:559:A:C5'	2.90	0.44
57:BY:4:LYS:CD	57:BY:4:LYS:C	2.86	0.44
52:DT:12:SER:O	52:DT:13:ARG:CZ	2.65	0.44
1:AA:979:C:C2'	1:AA:980:C:H5''	2.47	0.44
26:D1:67:ILE:N	26:D1:68:PRO:CD	2.77	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:B6:40:CYS:SG	31:B6:45:LYS:HD2	2.57	0.44
31:B6:48:VAL:O	31:B6:49:HIS:HB2	2.17	0.44
35:DA:1506:C:H2'	35:DA:1506:C:O2	2.16	0.44
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	1.98	0.44
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.64	0.44
9:AI:5:TYR:CD2	9:AI:17:VAL:O	2.70	0.44
48:DP:62:LEU:CD1	48:DP:62:LEU:N	2.69	0.44
35:BA:1088:A:N6	45:BK:133:SER:OG	2.50	0.44
59:D4:51:TYR:CZ	41:DG:2:PRO:HB3	2.52	0.44
2:CB:31:TYR:CD1	2:CB:202:PRO:HB3	2.52	0.44
19:AS:13:ASP:C	19:AS:15:LEU:N	2.70	0.44
35:BA:1020:A:N6	35:BA:1141:U:O2'	2.50	0.44
1:CA:1328:C:H5''	13:CM:28:ALA:HB1	1.99	0.44
35:DA:2636:U:H4'	39:DE:80:GLU:CD	2.38	0.44
39:DE:81:ILE:CG2	39:DE:81:ILE:O	2.65	0.44
19:AS:6:LYS:CD	19:AS:7:LYS:HE3	2.47	0.44
38:DD:105:ILE:O	38:DD:106:ILE:C	2.56	0.44
36:DB:42:C:H4'	41:DG:67:LYS:O	2.17	0.44
12:AL:87:GLY:H	12:AL:99:HIS:H	1.65	0.44
46:BN:57:ALA:O	46:BN:58:ASP:O	2.35	0.44
33:D8:46:ARG:HH11	33:D8:46:ARG:HG2	1.82	0.44
35:DA:648:G:O2'	35:DA:649:G:H5'	2.17	0.44
24:AY:182:PRO:HA	24:AY:352:LYS:NZ	2.32	0.44
14:AN:29:ARG:HG2	14:AN:30:ALA:H	1.82	0.44
48:DP:89:ALA:O	48:DP:91:PHE:O	2.35	0.44
35:BA:1439:A:H2'	35:BA:1440:G:O4'	2.17	0.44
51:DS:57:LYS:HG2	51:DS:58:LEU:N	2.26	0.44
35:BA:116:C:O2'	35:BA:117:G:H5'	2.17	0.44
35:BA:2113:U:H2'	35:BA:2114:A:C8	2.52	0.44
2:AB:100:GLY:O	2:AB:105:PHE:N	2.50	0.44
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.16	0.44
30:B5:20:ARG:HB3	30:B5:23:HIS:HD2	1.82	0.44
60:DI:96:ASP:O	60:DI:97:ILE:C	2.54	0.44
47:DO:105:GLU:O	47:DO:109:LYS:HG2	2.17	0.44
1:AA:502:G:C6	1:AA:503:C:C4	3.05	0.44
28:B3:31:LEU:C	28:B3:32:GLN:HG2	2.37	0.44
17:AQ:64:PRO:HA	17:AQ:70:ARG:HG3	1.99	0.44
40:DF:160:ASN:ND2	40:DF:162:LEU:HB2	2.30	0.44
8:AH:39:LEU:O	8:AH:44:PHE:N	2.50	0.44
26:B1:71:TYR:CD1	26:B1:71:TYR:N	2.85	0.44
35:BA:1091:G:O2'	35:BA:1092:C:H5'	2.17	0.44
10:AJ:96:ILE:CD1	10:AJ:96:ILE:N	2.80	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:B1:19:GLN:HB3	26:B1:35:THR:CG2	2.44	0.44
3:AC:24:ALA:HB1	3:AC:29:TYR:HA	1.99	0.44
35:DA:2354:G:H2'	35:DA:2355:C:C6	2.51	0.44
35:DA:2841:C:O2'	35:DA:2842:G:H5'	2.17	0.44
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.52	0.44
1:AA:380:G:N2	1:AA:383:A:OP2	2.49	0.44
6:AF:33:TYR:HD1	6:AF:75:LEU:CB	2.27	0.44
24:CY:177:TYR:HE1	24:CY:211:ILE:HA	1.82	0.44
1:AA:829:G:O2'	1:AA:830:G:H5'	2.17	0.44
41:DG:137:GLU:HG2	41:DG:152:LEU:CD2	2.47	0.44
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.16	0.44
46:DN:111:PRO:HG3	46:DN:114:ARG:HH22	1.81	0.44
35:BA:373:U:H2'	35:BA:374:A:C8	2.51	0.44
37:BC:170:ALA:O	37:BC:171:ILE:C	2.55	0.44
14:CN:37:PHE:HD2	14:CN:37:PHE:H	1.64	0.44
26:D1:33:LYS:HD3	35:DA:2432:A:N9	2.32	0.44
1:CA:392:G:H2'	1:CA:393:A:C8	2.51	0.44
1:AA:407:G:H2'	1:AA:408:A:C8	2.53	0.44
35:BA:919:G:H4'	36:BB:81:G:H4'	1.98	0.44
35:BA:2203:U:H1'	35:BA:2221:G:H22	1.82	0.44
25:D0:72:ARG:O	25:D0:75:LEU:HB2	2.17	0.44
1:CA:1157:A:C2	1:CA:1181:G:N3	2.84	0.44
17:AQ:2:PRO:O	17:AQ:3:LYS:C	2.55	0.44
35:DA:239:U:H2'	35:DA:240:G:O4'	2.16	0.44
56:BX:29:TRP:CZ2	56:BX:76:ARG:NH2	2.85	0.44
1:CA:815:A:O2'	1:CA:1527:C:H1'	2.17	0.44
46:DN:73:THR:HG22	46:DN:74:ARG:N	2.32	0.44
35:DA:907:U:OP1	49:DQ:24:GLY:N	2.50	0.44
1:AA:1047:G:H5''	14:AN:4:LYS:HG2	1.98	0.44
16:CP:26:ARG:HH11	16:CP:26:ARG:HG2	1.82	0.44
41:DG:26:GLN:OE1	41:DG:26:GLN:N	2.51	0.44
35:BA:1941:C:H5'	35:BA:1941:C:H6	1.81	0.44
35:DA:370:G:H8	35:DA:370:G:O5'	2.00	0.44
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.53	0.44
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.98	0.44
35:BA:436:C:H2'	35:BA:437:G:H8	1.83	0.44
35:BA:1884:A:C3'	35:BA:1885:A:H5''	2.47	0.44
58:DZ:108:PRO:O	58:DZ:109:ALA:O	2.34	0.44
31:B6:11:LEU:HD23	31:B6:25:LYS:N	2.32	0.44
31:D6:30:THR:O	31:D6:32:ASN:N	2.50	0.44
52:BT:81:PRO:C	52:BT:82:LEU:HD12	2.38	0.44
52:BT:29:ARG:HG2	52:BT:86:ILE:HG23	1.98	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:926:A:C8	35:BA:926:A:H5'	2.52	0.44
40:DF:8:GLN:O	40:DF:9:ILE:C	2.55	0.44
24:AY:47:LYS:HD2	35:BA:1067:A:OP1	2.17	0.44
41:DG:85:GLY:O	41:DG:87:PRO:HD2	2.17	0.44
24:CY:16:TYR:HD1	24:CY:55:LEU:CD2	2.30	0.44
24:CY:59:VAL:CA	24:CY:62:PHE:HB3	2.44	0.44
27:B2:45:SER:O	27:B2:46:GLN:NE2	2.50	0.44
35:BA:2572:A:OP1	39:BE:144:ARG:HB2	2.18	0.44
1:AA:556:C:H2'	1:AA:557:G:H5'	1.99	0.44
1:AA:557:G:H2'	1:AA:558:G:C8	2.52	0.44
57:BY:25:GLY:HA3	57:BY:39:VAL:CG1	2.47	0.44
57:BY:27:VAL:CG1	57:BY:29:GLU:OE1	2.64	0.44
57:BY:27:VAL:HB	57:BY:29:GLU:OE1	2.16	0.44
45:BK:95:LYS:H	45:BK:95:LYS:HD2	1.82	0.44
5:AE:70:PRO:HG2	5:AE:142:LEU:O	2.17	0.44
8:AH:120:THR:HG23	8:AH:123:GLU:CD	2.37	0.44
38:DD:242:ARG:HH11	38:DD:242:ARG:HG2	1.82	0.44
35:DA:1902:C:C5'	38:DD:246:PRO:HD3	2.47	0.44
54:DV:17:GLY:HA2	54:DV:96:ILE:O	2.18	0.44
35:BA:534:U:H2'	35:BA:535:C:C6	2.53	0.44
52:DT:36:GLU:HB3	52:DT:38:ASN:OD1	2.17	0.44
36:BB:85:G:O2'	36:BB:86:G:H5'	2.17	0.44
57:DY:27:VAL:CG1	57:DY:29:GLU:OE1	2.64	0.44
60:DI:26:ALA:HA	60:DI:30:LEU:HB2	1.99	0.44
48:DP:58:THR:O	48:DP:58:THR:HG23	2.16	0.44
42:DH:83:TYR:HA	42:DH:135:GLY:N	2.15	0.44
19:CS:13:ASP:C	19:CS:15:LEU:H	2.20	0.44
42:DH:30:LYS:HE2	42:DH:79:VAL:HA	1.97	0.44
35:DA:914:C:C2'	35:DA:915:C:H5'	2.33	0.44
51:BS:66:ALA:HA	51:BS:69:VAL:HG12	1.98	0.44
35:BA:1024:G:H21	35:BA:1144:G:C4'	2.30	0.44
20:CT:104:LEU:HD23	20:CT:105:SER:C	2.37	0.44
9:CI:2:GLU:O	9:CI:2:GLU:HG2	2.17	0.44
39:BE:87:GLU:O	39:BE:88:GLY:C	2.56	0.44
8:AH:84:ARG:HG2	8:AH:84:ARG:NH1	2.31	0.44
22:CW:18:G:H4'	22:CW:60:U:H3	1.81	0.44
57:DY:51:VAL:O	57:DY:51:VAL:HG12	2.17	0.44
1:CA:1358:U:OP1	14:CN:35:ARG:HG3	2.18	0.44
35:BA:1210:A:H5''	35:BA:1211:U:C3'	2.40	0.44
35:DA:786:C:O2'	35:DA:787:U:H5'	2.16	0.44
53:DU:25:TRP:CG	53:DU:26:GLY:N	2.85	0.44
35:BA:2631:G:N3	35:BA:2810:A:H2	2.15	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:28:GLU:HB3	54:DV:29:PRO:CD	2.40	0.44
1:CA:313:A:O2'	1:CA:314:C:H5'	2.17	0.44
35:DA:638:G:C5	35:DA:651:G:C2	3.05	0.44
5:CE:8:GLU:HA	5:CE:34:VAL:HA	2.00	0.44
22:AW:41:C:N4	22:AW:42:C:N4	2.66	0.44
16:AP:53:VAL:CG1	16:AP:79:VAL:HG22	2.44	0.44
28:D3:13:ILE:N	28:D3:13:ILE:HD12	2.31	0.44
1:AA:299:G:H2'	1:AA:300:A:H8	1.74	0.44
27:B2:40:SER:C	27:B2:42:GLY:H	2.19	0.44
1:CA:300:A:H2'	1:CA:301:G:O4'	2.17	0.44
1:AA:715:A:H2'	1:AA:716:A:C8	2.53	0.44
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.52	0.44
24:CY:307:TRP:O	24:CY:309:SER:N	2.50	0.44
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.82	0.44
15:AO:82:ILE:HD11	15:AO:87:ILE:O	2.17	0.44
20:AT:36:LEU:CD1	20:AT:55:ILE:HG23	2.48	0.44
48:BP:17:LYS:O	48:BP:19:VAL:N	2.46	0.44
42:DH:85:LYS:O	42:DH:85:LYS:HG2	2.16	0.44
35:BA:2862:G:H2'	35:BA:2863:C:H6	1.81	0.44
20:AT:73:HIS:O	20:AT:74:LYS:HB2	2.17	0.44
1:CA:1326:C:H2'	1:CA:1327:C:H6	1.78	0.44
48:DP:102:ARG:O	48:DP:103:ALA:CB	2.64	0.44
50:BR:18:LEU:HD11	50:BR:22:ARG:CZ	2.47	0.44
5:CE:18:ARG:NE	5:CE:27:ARG:HH21	2.15	0.44
35:BA:1799:G:H2'	38:BD:181:GLU:OE1	2.18	0.44
35:BA:2555:U:C2'	35:BA:2556:C:H5'	2.46	0.44
50:BR:8:ARG:HE	50:BR:8:ARG:H	1.64	0.44
2:AB:17:PHE:HD2	2:AB:17:PHE:N	2.15	0.44
12:AL:90:VAL:CG1	12:AL:90:VAL:O	2.65	0.44
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.82	0.44
20:CT:63:ILE:HG22	20:CT:77:ALA:HB1	1.99	0.44
35:DA:828:U:C3'	35:DA:828:U:O2	2.66	0.44
35:BA:654(U):A:H2'	35:BA:654(V):A:C8	2.52	0.44
35:DA:709:U:O2'	35:DA:710:G:H5'	2.17	0.44
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.53	0.44
16:AP:58:TYR:CD1	16:AP:59:TRP:N	2.84	0.44
35:DA:347:A:H2'	35:DA:348:G:C8	2.51	0.44
11:CK:122:LYS:O	11:CK:126:ARG:HG3	2.17	0.44
2:AB:138:LEU:O	2:AB:141:GLU:HB3	2.17	0.44
35:BA:272(J):C:N4	35:BA:363(A):A:N6	2.65	0.44
1:CA:1298:C:H2'	7:CG:114:ARG:HH12	1.83	0.44
35:BA:2778:A:H4'	35:BA:2779:U:OP1	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1675:C:C2	39:BE:129:HIS:CD2	3.04	0.44
10:CJ:29:ARG:HG2	10:CJ:29:ARG:O	2.17	0.44
35:DA:2369:A:O2'	35:DA:2370:G:H5'	2.17	0.44
1:AA:936:C:H2'	1:AA:937:A:H8	1.82	0.44
1:AA:1157:A:C2	1:AA:1181:G:N3	2.85	0.44
27:D2:4:SER:O	27:D2:8:LYS:HG3	2.18	0.44
1:AA:656:C:O2'	1:AA:657:G:H5'	2.17	0.44
41:DG:132:ASN:OD1	41:DG:158:ALA:HB2	2.17	0.44
35:BA:839:U:H1'	35:BA:1191:G:H1'	1.99	0.44
35:BA:576:U:H2'	35:BA:577:G:C8	2.52	0.44
35:DA:2677:G:H2'	35:DA:2678:C:C6	2.53	0.44
1:AA:93:G:O2'	1:AA:96:U:H5'	2.16	0.44
1:CA:762:C:O2'	1:CA:763:G:H5'	2.17	0.44
52:BT:132:LYS:C	52:BT:134:GLU:H	2.20	0.44
44:DJ:110:UNK:O	44:DJ:111:UNK:CB	2.65	0.44
1:CA:135:C:H2'	1:CA:136:C:H5'	1.99	0.44
20:CT:81:LYS:C	20:CT:83:ARG:H	2.21	0.44
49:DQ:141:GLN:N	58:DZ:99:TYR:CD2	2.86	0.44
13:CM:73:GLU:O	13:CM:76:ALA:HB3	2.17	0.44
35:BA:2289:G:C1'	35:BA:2346:A:H2	2.30	0.44
31:D6:12:GLU:HG2	31:D6:52:VAL:O	2.17	0.44
31:D6:29:ASN:O	31:D6:30:THR:C	2.55	0.44
28:D3:57:GLU:HG2	28:D3:58:VAL:N	2.33	0.44
35:DA:547:A:H2'	35:DA:548:A:C8	2.52	0.44
24:AY:88:LYS:C	24:AY:90:GLU:N	2.71	0.44
41:BG:29:TRP:C	41:BG:31:VAL:N	2.71	0.44
41:BG:39:ILE:CG1	41:BG:92:VAL:HG12	2.46	0.44
28:B3:37:LEU:C	28:B3:38:GLU:O	2.53	0.44
35:DA:271(P):C:O2'	35:DA:271(Q):G:H5'	2.16	0.44
1:AA:25:C:C5	1:AA:558:G:N2	2.85	0.44
42:BH:106:THR:C	42:BH:107:VAL:HG13	2.38	0.44
37:DC:83:ILE:HG23	37:DC:87:GLU:OE2	2.17	0.44
57:BY:31:LEU:CB	57:BY:32:PRO:CA	2.95	0.44
52:BT:108:ARG:HH11	52:BT:108:ARG:CB	2.29	0.44
35:BA:783:A:H8	35:BA:784:A:H4'	1.81	0.44
51:BS:26:LEU:HD13	51:BS:87:PHE:HD1	1.82	0.44
51:BS:90:GLY:O	51:BS:92:TYR:N	2.51	0.44
60:DI:66:GLU:HA	60:DI:69:LYS:NZ	2.32	0.44
9:AI:79:LEU:HD11	9:AI:83:ARG:NH2	2.32	0.44
10:AJ:38:ILE:N	10:AJ:71:LEU:O	2.50	0.44
48:DP:62:LEU:O	48:DP:62:LEU:HD22	2.17	0.44
32:B7:8:ASN:HD21	32:B7:10:ARG:HB3	1.83	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:19:VAL:CG2	42:DH:44:VAL:HG13	2.44	0.44
2:AB:75:LYS:CA	2:AB:78:GLN:HG3	2.36	0.44
52:DT:108:ARG:HH11	52:DT:108:ARG:CB	2.30	0.44
35:BA:1018:C:O2'	35:BA:1019:U:H5'	2.17	0.44
48:DP:10:PRO:CD	48:DP:11:GLY:N	2.79	0.44
48:DP:7:ARG:CG	48:DP:7:ARG:NH1	2.80	0.44
19:CS:43:GLU:C	19:CS:43:GLU:OE1	2.56	0.44
39:BE:47:VAL:HG12	39:BE:49:LEU:CD1	2.44	0.44
35:DA:1567:A:C8	38:DD:84:TYR:CE2	3.06	0.44
38:DD:96:HIS:NE2	38:DD:102:LYS:HE2	2.33	0.44
38:DD:95:LEU:HD12	38:DD:103:ARG:O	2.17	0.44
39:DE:87:GLU:O	39:DE:88:GLY:C	2.56	0.44
45:BK:77:LEU:CD1	45:BK:107:ILE:HG23	2.47	0.44
19:CS:6:LYS:N	19:CS:6:LYS:CD	2.76	0.44
35:BA:1210:A:C5'	35:BA:1211:U:H3'	2.40	0.44
27:D2:46:GLN:HA	27:D2:46:GLN:OE1	2.17	0.44
58:DZ:10:ARG:HG3	58:DZ:18:LEU:HD21	1.99	0.44
24:CY:190:VAL:CG1	24:CY:201:ARG:HE	2.31	0.44
35:BA:2092:U:O2	35:BA:2092:U:O4'	2.33	0.44
35:DA:211:A:O2'	35:DA:212:G:H5'	2.17	0.44
54:BV:62:LEU:HD21	54:BV:95:LEU:CB	2.40	0.44
1:CA:723:U:H5''	1:CA:724:G:OP2	2.17	0.44
35:BA:95:G:N2	35:BA:96:G:H1'	2.32	0.44
57:DY:42:VAL:CG2	57:DY:67:LEU:HD13	2.46	0.44
10:CJ:62:HIS:H	10:CJ:62:HIS:HD2	1.63	0.44
53:DU:64:ARG:HG2	53:DU:64:ARG:HH21	1.82	0.44
45:BK:125:ARG:HG2	45:BK:125:ARG:NH1	2.31	0.44
39:BE:76:ARG:O	39:BE:77:ILE:C	2.55	0.44
45:BK:62:ASP:O	45:BK:64:SER:N	2.51	0.44
47:BO:88:ASN:HD21	47:BO:90:GLN:HB2	1.81	0.44
40:BF:7:TYR:CB	40:BF:16:GLY:C	2.86	0.44
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.18	0.44
53:BU:31:SER:O	53:BU:33:ARG:N	2.50	0.44
3:CC:134:ILE:HG23	3:CC:151:VAL:HB	1.99	0.44
10:CJ:70:ARG:HE	10:CJ:70:ARG:CA	2.28	0.44
10:CJ:55:LYS:O	10:CJ:56:HIS:CG	2.70	0.44
1:CA:1248:A:C6	1:CA:1249:C:C4	3.05	0.44
16:CP:5:ARG:HE	16:CP:22:THR:CG2	2.30	0.44
8:AH:69:ARG:HD3	8:AH:75:ARG:O	2.15	0.44
42:DH:85:LYS:HE2	42:DH:145:ALA:CB	2.47	0.44
1:CA:475:G:O2'	1:CA:476:G:H5'	2.18	0.44
24:AY:231:VAL:HG11	24:AY:268:GLN:CG	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:269:ILE:HD12	49:BQ:80:GLU:HG3	1.99	0.44
1:AA:925:G:H4'	1:AA:1502:A:C2	2.53	0.44
1:CA:791:G:C5	1:CA:792:A:N7	2.86	0.44
41:BG:55:LYS:C	41:BG:57:ALA:H	2.20	0.44
1:CA:925:G:C6	1:CA:927:G:N7	2.86	0.44
3:CC:28:GLN:O	3:CC:29:TYR:C	2.53	0.44
15:AO:36:ILE:HG22	15:AO:37:ASN:N	2.31	0.44
35:DA:888:C:O2'	35:DA:889:C:H5'	2.18	0.44
35:DA:658:C:H2'	35:DA:659:C:C6	2.52	0.44
1:CA:453:A:O2'	1:CA:454:C:H6	2.01	0.44
9:CI:118:LYS:O	9:CI:119:ALA:CB	2.65	0.44
38:DD:211:ARG:O	38:DD:213:ARG:N	2.50	0.44
60:DI:125:GLU:HB3	60:DI:143:SER:OG	2.18	0.44
40:BF:117:ARG:HD3	40:BF:117:ARG:HA	1.58	0.44
35:BA:654(S):G:H2'	35:BA:654(T):C:C6	2.52	0.44
1:AA:710:G:O2'	1:AA:711:G:H5'	2.16	0.44
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.52	0.44
35:BA:107:C:C2	35:BA:108:U:C5	3.06	0.44
1:AA:1523:G:OP1	11:AK:123:LYS:HD3	2.17	0.44
11:AK:120:ARG:HH22	11:AK:126:ARG:NH2	2.15	0.44
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.17	0.44
35:DA:840:C:H2'	35:DA:841:A:C8	2.53	0.44
35:BA:1669:A:H5''	35:BA:2550:G:OP1	2.18	0.44
35:BA:2508:G:O2'	35:BA:2509:G:H5'	2.17	0.44
35:BA:2235:G:H2'	35:BA:2236:C:C6	2.52	0.44
1:CA:1294:G:O2'	1:CA:1295:G:H5'	2.17	0.44
22:CV:11:C:O5'	22:CV:11:C:H6	2.00	0.44
24:AY:196:ASP:OD1	24:AY:197:ALA:N	2.50	0.44
37:DC:192:PHE:HA	37:DC:196:LEU:CB	2.47	0.44
12:AL:69:TYR:HB2	12:AL:96:VAL:HG11	1.98	0.44
1:CA:589:C:O2'	1:CA:590:C:H5'	2.17	0.44
26:D1:86:SER:HA	26:D1:89:GLU:CD	2.37	0.44
35:DA:271(A):A:H3'	35:DA:271(B):C:H6	1.83	0.44
26:B1:74:VAL:O	26:B1:77:ALA:HB3	2.17	0.44
57:BY:81:LYS:HA	57:BY:82:PRO:HD3	1.85	0.44
31:D6:27:LYS:HD2	35:DA:2285:C:OP2	2.17	0.44
35:DA:2704:C:H2'	35:DA:2705:A:C8	2.52	0.44
40:BF:20:LEU:O	40:BF:21:ALA:HB2	2.17	0.44
40:DF:125:LEU:HD11	40:DF:199:TRP:CG	2.53	0.44
24:AY:64:SER:OG	24:AY:87:LEU:HD21	2.17	0.44
41:DG:82:LEU:HA	41:DG:82:LEU:HD23	1.81	0.44
41:DG:82:LEU:HD13	41:DG:87:PRO:CB	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1657:C:H2'	35:BA:1658:C:H6	1.81	0.44
28:B3:57:GLU:HG2	28:B3:58:VAL:N	2.33	0.44
35:DA:534:U:H2'	35:DA:535:C:C6	2.53	0.44
57:BY:2:ARG:N	57:BY:5:MET:SD	2.90	0.44
54:BV:15:GLU:O	54:BV:16:PRO:C	2.56	0.44
31:D6:15:GLU:CD	31:D6:18:ARG:HG3	2.36	0.44
37:DC:74:VAL:HA	37:DC:119:VAL:O	2.18	0.44
22:AW:70:G:N3	22:AW:70:G:H2'	2.33	0.44
35:DA:783:A:H8	35:DA:784:A:H4'	1.83	0.44
35:DA:1841:U:C2'	38:DD:244:ARG:HH22	2.31	0.44
57:DY:9:LYS:HG3	57:DY:10:GLY:H	1.81	0.44
27:B2:57:ILE:O	27:B2:60:LEU:HB2	2.16	0.44
24:CY:65:LEU:HD21	24:CY:94:ALA:CB	2.45	0.44
35:DA:1020:A:N6	35:DA:1141:U:O2'	2.51	0.44
1:AA:1125:U:H2'	1:AA:1126:U:OP2	2.18	0.44
2:AB:219:VAL:O	2:AB:222:ILE:HB	2.17	0.44
2:AB:222:ILE:HG22	2:AB:226:ARG:HH21	1.81	0.44
35:DA:1407:C:C2	35:DA:1596:A:C2	3.05	0.44
42:BH:97:ARG:C	42:BH:125:VAL:HG21	2.38	0.44
35:BA:196:A:OP2	48:BP:51:PHE:HE2	1.99	0.44
38:BD:72:LYS:HD2	38:BD:97:TYR:CD2	2.52	0.44
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.97	0.44
35:BA:1567:A:C8	38:BD:84:TYR:CE2	3.05	0.44
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.17	0.44
20:AT:92:LEU:C	20:AT:94:ALA:H	2.21	0.44
52:BT:16:ARG:HB2	52:BT:79:HIS:CD2	2.52	0.44
35:DA:674:G:C1'	40:DF:74:ARG:HD2	2.38	0.44
38:DD:133:LEU:HD23	38:DD:136:ILE:HD12	1.99	0.44
57:BY:88:LYS:HZ3	57:BY:93:GLY:C	2.21	0.44
6:CF:2:ARG:HD2	6:CF:4:TYR:OH	2.18	0.44
46:BN:40:PRO:C	46:BN:42:TRP:H	2.19	0.44
46:DN:56:ASN:HA	46:DN:124:ALA:O	2.17	0.44
7:CG:43:PHE:O	7:CG:46:ALA:HB3	2.18	0.44
54:BV:28:GLU:CB	54:BV:29:PRO:HD2	2.40	0.44
9:CI:9:ARG:HA	9:CI:13:ALA:O	2.18	0.44
10:AJ:51:ARG:HG3	10:AJ:60:ARG:HA	1.99	0.44
10:AJ:48:THR:HG23	10:AJ:62:HIS:CG	2.51	0.44
45:BK:67:PHE:N	45:BK:67:PHE:CD1	2.85	0.44
45:DK:55:VAL:HG22	45:DK:57:ILE:CD1	2.48	0.44
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.99	0.44
35:BA:2599:G:N7	38:BD:237:GLU:HG3	2.32	0.44
47:DO:16:ALA:HA	47:DO:46:ALA:CB	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:160:ASN:HD22	40:BF:161:GLU:N	2.15	0.44
38:BD:43:ARG:HB2	38:BD:49:ILE:HA	1.98	0.44
1:CA:1514:C:H2'	1:CA:1515:C:H6	1.82	0.44
22:CV:59:U:H2'	22:CV:60:U:H5'	2.00	0.44
2:CB:82:ARG:HH11	2:CB:83:MET:CE	2.30	0.44
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.17	0.44
35:DA:1071:G:C1'	35:DA:1089:G:C8	3.00	0.44
39:DE:63:LEU:O	39:DE:64:LYS:C	2.56	0.44
35:BA:2745:C:H4'	42:BH:142:GLY:O	2.17	0.44
35:DA:2862:G:O2'	35:DA:2863:C:H5'	2.18	0.44
1:CA:511:C:HO2'	1:CA:512:U:H6	1.61	0.44
2:CB:91:PRO:HG3	2:CB:155:LEU:HD23	1.99	0.44
5:AE:18:ARG:NE	5:AE:27:ARG:HH21	2.16	0.44
4:CD:205:GLU:O	4:CD:207:TYR:N	2.51	0.44
1:AA:69:G:H2'	1:AA:70:G:C8	2.52	0.44
39:DE:182:LEU:C	39:DE:182:LEU:HD12	2.37	0.44
35:DA:1088:A:N6	45:DK:133:SER:OG	2.51	0.44
22:CW:70:G:C2'	22:CW:71:G:C5'	2.96	0.44
43:BI:65:ALA:CB	43:BI:132:PRO:HB2	2.47	0.44
35:DA:2367:G:H2'	35:DA:2368:C:C6	2.50	0.44
35:DA:1793:C:H2'	35:DA:1794:U:C6	2.52	0.44
1:AA:677:U:H2'	1:AA:678:U:C6	2.53	0.44
6:AF:46:ARG:HH22	18:AR:37:VAL:HG21	1.83	0.44
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.32	0.44
1:CA:709:G:H2'	1:CA:710:G:H8	1.83	0.44
18:AR:29:PHE:CD1	18:AR:39:VAL:HG11	2.52	0.44
41:BG:145:THR:OG1	41:BG:148:MET:HB3	2.16	0.44
35:BA:1184:G:C5	35:BA:1185:C:C5	3.06	0.44
35:BA:523:C:C2'	35:BA:524:U:H5'	2.46	0.44
35:BA:1636:C:H2'	35:BA:1637:A:C8	2.53	0.44
50:BR:103:ARG:HB2	50:BR:109:ALA:C	2.38	0.44
15:CO:33:THR:HG21	15:CO:85:LEU:HD22	1.97	0.44
12:CL:125:PRO:HB2	12:CL:127:GLU:CD	2.38	0.44
20:CT:32:ALA:O	20:CT:36:LEU:HB2	2.17	0.44
1:AA:311:C:O2'	1:AA:312:C:H5'	2.17	0.44
35:BA:1401:G:H2'	35:BA:1402:C:C6	2.53	0.44
41:DG:144:ILE:HD12	41:DG:145:THR:H	1.83	0.44
48:BP:83:VAL:O	48:BP:83:VAL:HG13	2.17	0.44
22:CV:53:G:H2'	22:CV:54:U:H6	1.83	0.44
38:BD:126:GLN:O	38:BD:193:VAL:HG11	2.17	0.44
26:D1:82:LEU:O	26:D1:83:GLU:HG3	2.17	0.44
35:BA:1888:G:N3	35:BA:1888:G:H5'	2.32	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:97:ARG:CZ	51:BS:98:VAL:HA	2.39	0.44
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG1	2.43	0.44
1:CA:1330:U:H5'	1:CA:1331:G:OP2	2.17	0.44
35:BA:598:G:H4'	48:BP:15:ARG:HB3	2.00	0.44
24:AY:100:GLU:C	24:AY:102:TYR:H	2.21	0.44
41:BG:13:GLU:HG3	41:BG:14:GLU:H	1.82	0.44
52:DT:32:TYR:CB	52:DT:81:PRO:HB3	2.48	0.44
1:CA:410:G:OP2	4:CD:25:ARG:HG3	2.17	0.44
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.81	0.44
1:CA:25:C:C5	1:CA:558:G:N2	2.86	0.44
31:D6:19:ARG:H	31:D6:19:ARG:HD2	1.82	0.44
31:B6:19:ARG:N	31:B6:19:ARG:HD2	2.33	0.44
37:DC:72:VAL:HG21	37:DC:161:ILE:HA	1.99	0.44
53:BU:57:PHE:O	53:BU:59:ARG:N	2.51	0.44
8:CH:120:THR:H	8:CH:123:GLU:HB2	1.82	0.44
9:AI:104:ARG:HA	9:AI:104:ARG:HD2	1.83	0.44
37:BC:58:VAL:HA	37:BC:59:ARG:CZ	2.48	0.44
10:AJ:6:ILE:CG2	10:AJ:98:ILE:HG13	2.48	0.44
35:DA:2173:A:H3'	35:DA:2174:C:C6	2.53	0.44
27:B2:6:VAL:O	27:B2:7:ARG:C	2.56	0.44
33:B8:7:HIS:HB2	33:B8:59:LYS:HD2	2.00	0.44
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.51	0.44
35:BA:1407:C:O2	35:BA:1407:C:H2'	2.18	0.44
9:AI:2:GLU:N	9:AI:88:TYR:HH	2.15	0.44
40:DF:65:TRP:HB3	40:DF:66:PRO:HD3	2.00	0.44
38:BD:95:LEU:HD12	38:BD:103:ARG:O	2.17	0.44
35:DA:1080:C:O2'	35:DA:1081:U:H5'	2.17	0.44
19:CS:6:LYS:HD2	19:CS:7:LYS:N	2.31	0.44
19:AS:6:LYS:CG	19:AS:7:LYS:HE3	2.48	0.44
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.47	0.44
5:CE:139:LEU:C	5:CE:141:GLN:N	2.70	0.44
28:B3:19:GLN:HE22	28:B3:52:HIS:CE1	2.29	0.44
46:DN:65:LYS:HB2	46:DN:69:GLN:HG3	1.98	0.44
24:AY:312:ARG:NH2	24:AY:325:ARG:NH2	2.64	0.44
1:CA:1051:C:H2'	1:CA:1052:U:C6	2.53	0.44
22:AW:39:U:C2'	22:AW:40:C:H5''	2.42	0.44
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.43	0.44
3:AC:138:VAL:HG13	3:AC:149:ALA:HB3	2.00	0.44
3:AC:150:LYS:HA	3:AC:169:ALA:HB2	1.98	0.44
35:DA:1061:U:P	45:DK:9:LYS:NZ	2.91	0.44
58:BZ:80:ARG:O	58:BZ:81:ARG:C	2.56	0.44
45:DK:62:ASP:O	45:DK:64:SER:N	2.50	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:84:LEU:HB2	12:AL:105:TYR:CE1	2.53	0.44
1:AA:625:G:C4	1:AA:626:U:C5	3.06	0.44
35:DA:2692:C:O2'	35:DA:2693:A:H5'	2.17	0.44
35:DA:2682:U:C5	39:DE:11:MET:HE1	2.52	0.44
50:BR:54:LEU:HG	50:BR:62:ALA:HB1	1.99	0.44
40:BF:104:LYS:O	40:BF:108:LYS:HG3	2.18	0.44
20:AT:32:ALA:O	20:AT:36:LEU:HB2	2.17	0.44
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.46	0.44
35:BA:59:U:O2'	35:BA:73:A:H2'	2.17	0.44
10:CJ:99:LYS:O	10:CJ:100:THR:HG23	2.16	0.44
15:CO:39:LEU:HD12	15:CO:56:LEU:HB2	1.99	0.44
1:AA:1248:A:C6	1:AA:1249:C:C4	3.05	0.44
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.83	0.44
5:AE:13:ILE:N	5:AE:13:ILE:HD12	2.33	0.44
39:BE:79:ARG:NH1	39:BE:79:ARG:HG2	2.32	0.44
35:BA:2516:G:C5	35:BA:2517:C:C4	3.06	0.44
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.86	0.44
1:AA:859:A:H2'	1:AA:860:A:O4'	2.17	0.44
1:AA:745:C:H1'	1:AA:836:G:O2'	2.17	0.44
35:BA:1100:C:H2'	35:BA:1101:U:C5'	2.47	0.44
35:DA:639:U:H2'	35:DA:640:C:C6	2.52	0.44
28:D3:19:GLN:HE22	28:D3:52:HIS:CE1	2.32	0.44
3:CC:124:ILE:HG21	3:CC:196:LEU:HG	1.99	0.44
1:CA:457:C:H2'	1:CA:458:C:C6	2.53	0.44
17:AQ:76:LEU:CG	17:AQ:77:VAL:N	2.81	0.44
1:AA:1231:G:H5''	9:AI:128:ARG:HD3	1.99	0.44
40:DF:88:VAL:CG1	40:DF:91:GLY:HA3	2.46	0.44
45:DK:14:ALA:C	45:DK:45:THR:HG21	2.37	0.44
35:BA:709:U:O2'	35:BA:710:G:H5'	2.16	0.44
35:DA:558:G:OP2	46:DN:111:PRO:HD2	2.18	0.44
46:DN:119:ARG:HG3	46:DN:119:ARG:NH1	2.30	0.44
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.52	0.44
1:AA:986:A:H2'	1:AA:987:G:C8	2.51	0.44
1:CA:1239:A:H62	1:CA:1299:A:H62	1.66	0.44
39:BE:98:PRO:HD3	39:BE:175:VAL:HG12	1.99	0.44
17:AQ:29:HIS:N	17:AQ:33:GLY:O	2.42	0.44
6:CF:36:ARG:NH1	6:CF:36:ARG:HB3	2.32	0.44
38:DD:7:LYS:O	38:DD:9:TYR:HD1	2.01	0.44
1:AA:1440:C:C2	1:AA:1462:G:N2	2.85	0.44
1:AA:890:G:N2	1:AA:906:G:H2'	2.33	0.44
35:DA:970:C:H2'	35:DA:971:C:C6	2.52	0.44
24:AY:123:GLY:H	24:AY:206:ALA:HA	1.82	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:132:LYS:C	52:DT:134:GLU:H	2.21	0.44
35:BA:1948:G:O2'	35:BA:1949:G:H5'	2.17	0.44
1:AA:1162:C:O2'	1:AA:1163:C:H5'	2.16	0.44
44:DJ:70:UNK:O	44:DJ:72:UNK:N	2.51	0.44
35:BA:1251:C:OP1	53:BU:10:ARG:HG3	2.17	0.44
35:BA:2344:U:H4'	35:BA:2345:G:OP1	2.18	0.44
30:D5:40:LYS:HE3	30:D5:46:CYS:CB	2.47	0.44
35:BA:2206:G:H3'	35:BA:2207:G:C5'	2.48	0.44
40:DF:21:ALA:C	40:DF:23:ASP:N	2.69	0.44
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.18	0.44
41:BG:111:LEU:HD21	41:BG:120:LEU:HD21	2.00	0.44
41:BG:7:LEU:O	41:BG:8:LYS:C	2.56	0.44
41:BG:73:ALA:H	41:BG:87:PRO:HB2	1.83	0.44
1:CA:430:A:C2'	1:CA:431:A:H5'	2.47	0.44
2:AB:194:PRO:O	2:AB:197:VAL:HG23	2.17	0.44
2:AB:30:ARG:HH21	2:AB:194:PRO:CB	2.30	0.44
35:DA:271(P):C:H5'	60:DI:46:ALA:CB	2.48	0.44
60:DI:52:ARG:O	60:DI:53:ALA:C	2.56	0.44
52:BT:12:SER:O	52:BT:13:ARG:NH1	2.51	0.44
55:DW:47:VAL:O	55:DW:50:VAL:HG13	2.17	0.44
37:DC:72:VAL:CG1	37:DC:74:VAL:HG23	2.46	0.44
58:DZ:47:VAL:O	58:DZ:51:ALA:CB	2.65	0.44
5:AE:71:LEU:HD21	5:AE:115:VAL:HG22	2.00	0.44
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.83	0.44
54:DV:91:TYR:H	54:DV:91:TYR:HD1	1.65	0.44
53:BU:66:ASN:OD1	53:BU:76:TYR:HB2	2.18	0.44
47:DO:104:ARG:CZ	52:DT:33:LYS:HD2	2.48	0.44
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.86	0.44
35:DA:1142(A):A:O2'	35:DA:1143:A:H3'	2.17	0.44
50:DR:2:ARG:CZ	50:DR:5:LYS:NZ	2.76	0.44
35:BA:2791:C:H4'	35:BA:2792:G:O5'	2.17	0.44
20:CT:104:LEU:HD23	20:CT:104:LEU:C	2.38	0.44
1:CA:372:C:N4	1:CA:387:U:H2'	2.33	0.44
39:BE:26:ILE:HG22	39:BE:27:LEU:N	2.31	0.44
33:D8:24:ALA:O	33:D8:46:ARG:HA	2.17	0.44
4:AD:25:ARG:HH12	4:AD:30:LYS:HB2	1.83	0.44
23:AX:24:A:C8	24:AY:202:HIS:HA	2.53	0.44
35:BA:797:C:P	40:BF:62:ARG:HG3	2.58	0.44
3:CC:153:VAL:HA	3:CC:197:GLY:O	2.17	0.44
2:AB:97:TRP:CH2	2:AB:176:GLU:OE2	2.71	0.44
12:AL:83:VAL:CG2	12:AL:84:LEU:N	2.81	0.44
17:CQ:59:ILE:HG22	17:CQ:60:ILE:N	2.32	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:CQ:68:ARG:N	17:CQ:70:ARG:NH1	2.64	0.44
40:DF:29:ASN:H	40:DF:112:MET:HE3	1.82	0.44
1:CA:1501:C:OP1	1:CA:1508:G:H4'	2.18	0.44
60:DI:109:ILE:HD13	60:DI:109:ILE:N	2.30	0.44
10:CJ:32:ALA:H	10:CJ:78:ASN:CG	2.21	0.44
35:BA:601:C:O2	35:BA:605:C:H4'	2.17	0.44
3:CC:47:LEU:HD11	3:CC:76:VAL:HG12	1.99	0.44
16:CP:36:ILE:HG13	16:CP:37:GLY:N	2.32	0.44
43:BI:142:VAL:CG1	43:BI:143:SER:H	2.27	0.44
25:D0:84:LEU:CD1	25:D0:84:LEU:N	2.78	0.44
35:DA:2655:G:HO2'	35:DA:2656:U:P	2.41	0.44
38:DD:43:ARG:HB2	38:DD:49:ILE:HA	1.99	0.44
35:DA:2861:G:O2'	35:DA:2862:G:H5'	2.17	0.44
1:AA:1500:A:O2'	1:AA:1501:C:H5'	2.17	0.44
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.53	0.44
25:B0:36:ILE:HD12	25:B0:36:ILE:O	2.18	0.44
3:CC:28:GLN:O	3:CC:30:ARG:N	2.50	0.44
4:AD:79:PHE:C	4:AD:79:PHE:CD2	2.91	0.44
28:D3:50:VAL:O	28:D3:52:HIS:N	2.51	0.44
36:DB:104:U:O2'	58:DZ:72:ARG:HG3	2.18	0.44
40:DF:129:PHE:HE1	40:DF:142:TRP:CH2	2.36	0.44
9:CI:112:LYS:HA	9:CI:119:ALA:HA	2.00	0.44
1:CA:154:C:H42	1:CA:167:G:H1	1.66	0.44
54:BV:2:PHE:O	54:BV:3:ALA:CB	2.66	0.44
12:CL:90:VAL:O	12:CL:90:VAL:CG1	2.65	0.44
39:DE:66:HIS:HD2	39:DE:66:HIS:O	2.01	0.44
35:BA:2296:U:O2	35:BA:2333:A:N3	2.51	0.44
1:CA:829:G:O2'	1:CA:830:G:H5'	2.18	0.44
1:AA:983:A:HO2'	1:AA:1049:U:HO2'	1.62	0.44
1:CA:706:A:C5	1:CA:707:C:H5	2.36	0.44
1:CA:986:A:H2'	1:CA:987:G:C8	2.53	0.44
2:CB:141:GLU:O	2:CB:145:LEU:HD23	2.18	0.44
35:BA:1339:G:H21	35:BA:1603:A:H1'	1.83	0.44
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.99	0.44
35:BA:2408:U:H2'	35:BA:2409:G:C8	2.53	0.44
37:DC:18:LYS:O	37:DC:22:ILE:HD11	2.18	0.44
38:DD:94:LEU:HD13	38:DD:94:LEU:O	2.17	0.44
44:DJ:73:UNK:C	44:DJ:75:UNK:N	2.79	0.44
35:DA:1638:C:H4'	35:DA:2710:C:O2	2.18	0.44
35:DA:1932:A:H2'	35:DA:1933:G:O4'	2.18	0.44
35:BA:981:A:H2	35:BA:2027:G:N3	2.15	0.44
1:AA:119:A:H4'	1:AA:120:A:O5'	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2564:A:C2	35:DA:2647:U:H4'	2.53	0.44
1:CA:119:A:H4'	1:CA:120:A:O5'	2.18	0.44
60:DI:60:GLU:O	60:DI:63:ALA:HB3	2.17	0.44
36:DB:1:U:O2	36:DB:1:U:H2'	2.17	0.44
35:BA:614:U:O4'	35:BA:614:U:O2	2.34	0.44
35:BA:893:C:H2'	35:BA:894:C:C6	2.52	0.44
48:DP:49:ARG:O	48:DP:50:ARG:HB3	2.18	0.44
22:AV:72:C:C6	22:AV:72:C:C3'	3.00	0.44
35:BA:2759:G:C2'	35:BA:2760:C:H5'	2.48	0.44
31:D6:11:LEU:HD21	31:D6:26:ASN:HB2	2.00	0.44
30:D5:49:CYS:O	30:D5:50:GLY:C	2.56	0.44
30:B5:3:LYS:CG	30:B5:4:HIS:H	2.13	0.44
30:B5:46:CYS:SG	30:B5:47:PRO:CD	3.06	0.44
4:AD:54:TYR:O	4:AD:55:ALA:C	2.56	0.44
29:B4:63:SER:HB3	41:BG:107:LEU:O	2.18	0.44
41:BG:41:GLN:CD	41:BG:60:LEU:HD23	2.38	0.44
4:CD:52:SER:C	4:CD:54:TYR:N	2.69	0.44
54:DV:39:LEU:CB	54:DV:47:VAL:HG21	2.45	0.44
54:BV:40:LEU:HD22	54:BV:46:VAL:HA	2.00	0.44
50:BR:10:LEU:HD22	50:BR:17:ARG:CG	2.47	0.44
38:BD:244:ARG:HG2	38:BD:244:ARG:NH1	2.32	0.44
31:D6:36:LEU:HA	31:D6:49:HIS:O	2.18	0.44
22:AW:71:G:H2'	22:AW:72:C:O4'	2.17	0.44
1:CA:1117:G:O3'	9:CI:104:ARG:NH1	2.51	0.44
1:CA:957:U:H4'	19:CS:79:THR:HB	1.99	0.44
7:CG:50:ILE:HG22	7:CG:51:GLN:N	2.32	0.44
32:D7:12:ARG:HD3	32:D7:46:VAL:HG21	1.99	0.44
32:D7:45:ALA:O	32:D7:46:VAL:CG2	2.66	0.44
26:D1:88:LYS:C	26:D1:88:LYS:HE2	2.38	0.44
43:BI:12:LEU:HD22	43:BI:19:VAL:HG21	2.00	0.44
1:AA:59:A:H61	1:AA:331:G:H1'	1.82	0.44
2:AB:220:ASP:C	2:AB:222:ILE:N	2.71	0.44
2:AB:77:ALA:HB2	2:AB:211:ILE:CD1	2.34	0.44
4:CD:92:VAL:O	4:CD:96:LEU:HD13	2.17	0.44
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.33	0.44
40:DF:184:TYR:CE1	48:DP:7:ARG:NH2	2.86	0.44
19:CS:39:THR:HG22	19:CS:40:ILE:N	2.33	0.44
35:BA:674:G:C1'	40:BF:74:ARG:HD2	2.35	0.44
39:BE:82:ARG:HB3	39:BE:83:ASP:H	1.42	0.44
57:BY:51:VAL:O	57:BY:51:VAL:HG12	2.18	0.44
57:BY:48:ALA:C	57:BY:49:VAL:HG22	2.37	0.44
1:AA:1324:A:H4'	1:AA:1362:C:O3'	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:104:LEU:HD23	20:AT:105:SER:C	2.38	0.44
37:DC:40:THR:O	37:DC:42:GLU:HG3	2.17	0.44
50:DR:12:ARG:NE	50:DR:16:HIS:CE1	2.82	0.44
12:AL:25:PRO:HD2	12:AL:98:TYR:OH	2.17	0.44
23:AX:18:A:H5'	23:AX:19:U:OP1	2.17	0.44
58:DZ:40:ASP:OD1	58:DZ:41:LEU:N	2.51	0.44
51:BS:57:LYS:CG	51:BS:58:LEU:H	2.19	0.44
50:BR:34:ILE:CG2	50:BR:35:THR:N	2.81	0.44
49:DQ:1:MET:O	49:DQ:2:LEU:HB3	2.17	0.44
49:DQ:42:ILE:CG2	49:DQ:47:ILE:HG13	2.48	0.44
1:AA:1105:A:O2'	1:AA:1106:G:H5'	2.18	0.44
35:DA:2259:G:O2'	35:DA:2260:C:H5'	2.18	0.44
35:DA:2277:G:C2'	35:DA:2278:A:H5'	2.48	0.44
45:DK:100:THR:OG1	45:DK:102:GLU:HG2	2.17	0.44
35:DA:152:G:H2'	35:DA:153:C:C6	2.53	0.44
17:AQ:5:VAL:HG13	17:AQ:59:ILE:O	2.17	0.44
13:AM:25:ILE:HD12	13:AM:25:ILE:N	2.33	0.44
26:D1:30:VAL:HG12	35:DA:2396:G:H1'	1.98	0.44
35:BA:691:C:O4'	38:BD:43:ARG:NH2	2.50	0.44
38:BD:43:ARG:O	38:BD:44:ASN:O	2.36	0.44
8:AH:97:VAL:HG13	8:AH:98:LYS:HG3	2.00	0.44
10:AJ:55:LYS:O	10:AJ:56:HIS:CG	2.71	0.44
8:CH:112:LEU:HD11	8:CH:131:GLY:C	2.38	0.44
17:CQ:57:VAL:CG2	17:CQ:73:VAL:HG13	2.47	0.44
7:AG:75:VAL:HG13	7:AG:145:ALA:CA	2.48	0.44
35:DA:999:U:O2'	35:DA:1000:A:H5''	2.18	0.44
29:B4:36:VAL:HB	29:B4:37:PRO:HD2	1.99	0.44
18:CR:79:LEU:HA	18:CR:80:PRO:HD3	1.77	0.44
4:AD:73:ARG:NH1	4:AD:73:ARG:HB2	2.30	0.44
4:CD:73:ARG:HD2	4:CD:77:ASN:ND2	2.29	0.44
39:BE:182:LEU:HD12	39:BE:182:LEU:C	2.38	0.44
7:CG:101:LEU:O	7:CG:104:LEU:HB2	2.17	0.44
49:DQ:39:PRO:O	49:DQ:40:ALA:HB2	2.18	0.44
49:DQ:14:ARG:HG2	49:DQ:41:TRP:HH2	1.83	0.44
35:DA:1799:G:H2'	38:DD:181:GLU:OE1	2.17	0.44
1:CA:860:A:H2'	1:CA:861:G:O4'	2.18	0.44
24:CY:316:LEU:HD21	24:CY:333:PRO:HB2	1.98	0.44
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.99	0.44
2:CB:116:GLU:HA	2:CB:119:GLU:CB	2.47	0.44
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.17	0.44
40:DF:140:LEU:HD13	40:DF:170:LEU:HD21	1.99	0.44
5:AE:47:LYS:HD2	5:AE:47:LYS:H	1.83	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:66:HIS:HD2	39:BE:66:HIS:C	2.21	0.44
13:AM:82:MET:O	13:AM:83:ASP:C	2.56	0.44
35:DA:579:G:H2'	35:DA:580:C:C6	2.53	0.44
35:BA:740:U:H2'	35:BA:741:G:H8	1.81	0.44
35:DA:1665:A:C2'	35:DA:1666:G:H5'	2.48	0.44
35:BA:2178:C:H5'	37:BC:46:LYS:HB2	1.99	0.44
35:BA:1006:C:O2	46:BN:106:MET:HG2	2.17	0.44
1:AA:985:C:H2'	1:AA:986:A:H8	1.82	0.44
35:DA:844:C:C2'	35:DA:845:G:H5'	2.48	0.44
35:DA:1912:A:O2'	35:DA:1913:A:C5'	2.65	0.44
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.17	0.44
35:DA:305:U:H2'	35:DA:306:U:C6	2.52	0.44
2:AB:103:THR:CG2	2:AB:179:LYS:HD3	2.48	0.44
5:AE:20:GLN:O	5:AE:23:GLY:O	2.35	0.44
44:BJ:74:UNK:O	44:BJ:76:UNK:N	2.51	0.44
17:CQ:85:VAL:HG12	17:CQ:89:LEU:HG	1.99	0.44
35:BA:327:G:H2'	35:BA:328:U:C6	2.53	0.44
12:CL:86:ARG:HB3	12:CL:101:VAL:CG2	2.48	0.44
56:BX:44:GLU:C	56:BX:46:ALA:H	2.20	0.44
17:AQ:19:VAL:HG23	17:AQ:44:ALA:HB3	2.00	0.44
1:CA:319:G:O2'	1:CA:320:C:H5'	2.17	0.44
26:D1:80:LEU:HD13	26:D1:82:LEU:HG	1.98	0.44
49:BQ:141:GLN:NE2	58:BZ:53:ILE:HG21	2.33	0.44
33:B8:2:PRO:O	33:B8:3:LYS:HB3	2.17	0.44
35:DA:598:G:H4'	48:DP:15:ARG:HB3	2.00	0.44
31:D6:24:GLU:OE1	31:D6:24:GLU:HA	2.17	0.44
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.53	0.44
40:DF:8:GLN:HB2	40:DF:126:VAL:HA	1.99	0.44
33:D8:60:LEU:O	33:D8:63:PRO:HG2	2.17	0.44
24:AY:10:LEU:HB2	24:AY:102:TYR:CD1	2.52	0.44
24:AY:19:ILE:C	24:AY:21:GLN:H	2.21	0.44
41:BG:29:TRP:O	41:BG:31:VAL:N	2.51	0.44
54:DV:4:ILE:HB	54:DV:39:LEU:O	2.17	0.44
42:BH:160:LYS:HB2	42:BH:161:GLY:H	1.54	0.44
33:B8:25:MET:O	33:B8:26:LYS:C	2.56	0.44
32:B7:9:ARG:HG3	32:B7:9:ARG:HH11	1.82	0.44
19:CS:13:ASP:C	19:CS:15:LEU:N	2.71	0.44
35:BA:2443:C:H2'	35:BA:2444:G:H8	1.83	0.44
2:CB:87:ARG:HH12	2:CB:223:ILE:HD13	1.78	0.44
2:AB:220:ASP:CA	2:AB:223:ILE:HG12	2.42	0.44
39:BE:89:ASP:O	39:BE:90:THR:O	2.36	0.44
41:DG:131:TYR:HB3	41:DG:159:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1080:C:H2'	35:DA:1081:U:C6	2.47	0.44
35:BA:27:G:C2'	35:BA:28:A:OP2	2.66	0.44
35:BA:27:G:H22	35:BA:512:G:C2'	2.22	0.44
1:AA:402:G:O2'	1:AA:403:C:H5'	2.18	0.44
57:DY:89:PHE:O	57:DY:90:LEU:CB	2.63	0.44
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.17	0.44
38:BD:133:LEU:HD21	38:BD:191:ALA:HB2	2.00	0.44
46:BN:35:ARG:O	46:BN:42:TRP:HZ3	1.98	0.44
39:BE:30:PRO:HD3	39:BE:180:ASN:ND2	2.33	0.44
43:BI:15:VAL:CG1	43:BI:16:GLY:N	2.81	0.44
1:AA:1228:C:P	13:AM:115:LYS:HE3	2.58	0.44
35:BA:15:G:O2'	35:BA:16:G:H5'	2.17	0.44
1:AA:426:G:H2'	1:AA:427:U:C6	2.52	0.44
8:CH:11:THR:O	8:CH:15:ASN:ND2	2.51	0.44
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	2.33	0.44
9:CI:114:TYR:HE1	10:CJ:60:ARG:N	2.14	0.44
10:CJ:51:ARG:HG3	10:CJ:60:ARG:HA	1.99	0.44
50:DR:49:ASP:O	50:DR:52:ILE:HB	2.17	0.44
49:BQ:27:VAL:HG12	58:BZ:81:ARG:NH2	2.33	0.44
1:AA:16:A:N1	1:AA:919:A:H2	2.16	0.44
47:BO:118:ALA:C	47:BO:120:GLU:H	2.20	0.44
25:B0:27:GLU:HB3	35:BA:856:C:C1'	2.44	0.44
1:AA:1006:C:H2'	1:AA:1007:C:H6	1.76	0.44
40:DF:7:TYR:HD2	40:DF:16:GLY:N	2.08	0.44
40:BF:29:ASN:H	40:BF:112:MET:CE	2.31	0.44
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.17	0.44
48:BP:75:ILE:H	48:BP:75:ILE:HD12	1.82	0.44
52:BT:11:GLU:N	52:BT:11:GLU:CD	2.71	0.44
35:DA:1963:U:C2'	35:DA:1963:U:O2	2.63	0.44
42:BH:146:ALA:CA	42:BH:149:ARG:HB3	2.48	0.44
7:AG:145:ALA:C	7:AG:147:ALA:N	2.71	0.44
11:AK:108:ILE:O	18:AR:87:ARG:N	2.48	0.44
1:CA:181:G:H21	1:CA:183:G:N2	2.16	0.44
1:AA:1476:G:H2'	1:AA:1477:C:H6	1.82	0.44
38:DD:148:GLU:HB3	38:DD:149:PRO:HD2	1.98	0.44
22:CV:65:G:O2'	22:CV:66:U:H5'	2.17	0.44
58:BZ:27:VAL:HG13	58:BZ:29:TYR:CD2	2.53	0.44
5:CE:15:ARG:HG2	5:CE:26:PHE:HD2	1.83	0.44
35:DA:630:G:N2	35:DA:633:A:OP2	2.47	0.44
1:AA:457:C:H2'	1:AA:458:C:C6	2.53	0.44
1:CA:216:G:H2'	1:CA:217:C:O4'	2.18	0.44
1:AA:154:C:H42	1:AA:167:G:H1	1.64	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2197:U:O2'	35:DA:2198:A:H5''	2.17	0.44
2:AB:44:LEU:HD12	2:AB:44:LEU:N	2.32	0.44
53:DU:98:LEU:HD21	54:DV:2:PHE:CZ	2.52	0.44
24:AY:82:GLU:C	24:AY:84:ARG:H	2.20	0.44
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.52	0.44
13:AM:82:MET:SD	13:AM:83:ASP:N	2.91	0.44
35:DA:1056:G:H4'	35:DA:1086:A:C8	2.52	0.44
35:DA:1373:A:O2'	35:DA:1374:G:H5'	2.18	0.44
35:DA:1655:A:H3'	35:DA:1656:C:C6	2.52	0.44
46:BN:69:GLN:O	46:BN:71:ILE:HG13	2.17	0.44
26:B1:49:VAL:HB	26:B1:60:PHE:HB2	1.99	0.44
1:CA:152:A:H62	1:CA:169:C:H42	1.66	0.44
35:BA:39:C:O2'	35:BA:40:C:H5'	2.17	0.44
58:BZ:137:ILE:CG2	58:BZ:138:GLU:N	2.81	0.44
35:BA:2777:G:H5''	35:BA:2778:A:H5'	1.99	0.44
1:CA:802:A:H2'	1:CA:803:G:C5'	2.48	0.44
49:BQ:47:ILE:CD1	49:BQ:70:PRO:HD3	2.47	0.44
27:D2:50:ILE:H	27:D2:50:ILE:HD12	1.83	0.44
41:BG:167:GLU:O	41:BG:171:ALA:N	2.41	0.44
1:AA:1367:C:OP1	9:AI:115:GLY:N	2.44	0.44
24:AY:127:THR:HG22	24:AY:162:ALA:HB3	2.00	0.44
1:CA:648:A:H2'	1:CA:649:G:H8	1.82	0.44
1:CA:1076:C:N3	1:CA:1082:G:C2	2.86	0.44
47:DO:45:GLU:HG3	47:DO:45:GLU:O	2.18	0.44
1:CA:1091:U:H2'	1:CA:1093:A:OP2	2.18	0.44
35:BA:6:A:O2'	35:BA:7:G:H5'	2.18	0.44
1:AA:784:C:H4'	35:BA:1837:C:OP1	2.18	0.44
35:BA:2422:A:H4'	35:BA:2423:U:OP1	2.18	0.44
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.82	0.44
22:CW:3:C:O5'	22:CW:3:C:H6	2.00	0.44
52:BT:26:ASP:OD2	52:BT:26:ASP:C	2.55	0.44
10:CJ:47:PHE:CD1	10:CJ:47:PHE:O	2.70	0.44
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.17	0.44
35:BA:979:G:H3'	35:BA:980:A:H5''	1.99	0.44
52:DT:67:SER:O	52:DT:68:TYR:HB2	2.17	0.44
58:DZ:52:SER:OG	58:DZ:53:ILE:N	2.51	0.44
52:BT:23:ARG:HA	52:BT:52:ILE:CD1	2.46	0.44
36:BB:29:A:H2'	36:BB:30:C:C6	2.53	0.44
41:BG:115:ARG:CD	41:BG:115:ARG:H	2.22	0.44
41:BG:120:LEU:HB2	41:BG:180:PHE:HD2	1.82	0.44
52:DT:28:VAL:CG2	52:DT:47:GLY:N	2.71	0.44
35:DA:742:G:O2'	35:DA:743:G:H5'	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:429:U:H1'	1:CA:430:A:H5''	1.98	0.44
24:AY:33:LEU:HD13	35:BA:1095:A:N6	2.33	0.44
45:BK:20:ALA:N	45:BK:21:PRO:CD	2.81	0.44
24:AY:33:LEU:HG	45:BK:29:GLN:NE2	2.32	0.44
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.82	0.44
37:BC:86:ALA:HB3	37:BC:94:VAL:HG21	1.99	0.44
42:BH:92:ILE:O	42:BH:94:TYR:N	2.49	0.44
35:BA:1827:C:C2'	35:BA:1828:G:C5'	2.92	0.44
35:BA:1902:C:O2'	38:BD:244:ARG:HD3	2.17	0.44
1:CA:1126:U:P	1:CA:1126:U:H6	2.41	0.44
10:CJ:38:ILE:N	10:CJ:71:LEU:O	2.50	0.44
5:CE:126:ARG:NH1	5:CE:126:ARG:CG	2.80	0.44
8:AH:121:ASP:OD1	8:AH:121:ASP:N	2.50	0.44
35:BA:1309:G:O2'	35:BA:1310:G:H5'	2.17	0.44
35:DA:2791:C:H4'	35:DA:2792:G:O5'	2.16	0.44
27:B2:2:LYS:HA	27:B2:2:LYS:NZ	2.33	0.44
2:CB:220:ASP:C	2:CB:222:ILE:N	2.71	0.44
56:DX:36:LYS:HA	56:DX:39:ILE:CG1	2.48	0.44
19:AS:13:ASP:O	19:AS:15:LEU:N	2.51	0.44
35:BA:1568:G:H4'	38:BD:59:LYS:HB3	1.99	0.44
20:AT:45:GLN:C	20:AT:47:GLY:H	2.21	0.44
1:AA:940:C:H2'	1:AA:941:G:C8	2.53	0.44
1:AA:1316:G:H2'	1:AA:1317:C:H5''	2.00	0.44
39:DE:34:VAL:HG23	39:DE:34:VAL:O	2.18	0.44
38:BD:142:VAL:CG2	38:BD:143:HIS:N	2.81	0.44
1:CA:940:C:H2'	1:CA:941:G:C8	2.52	0.44
4:CD:170:VAL:HG22	4:CD:171:GLY:H	1.82	0.44
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.83	0.44
25:D0:32:ARG:N	25:D0:35:ASN:ND2	2.54	0.44
16:CP:53:VAL:CG1	16:CP:79:VAL:HG22	2.43	0.44
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	2.17	0.44
45:BK:55:VAL:CG2	45:BK:67:PHE:HB2	2.48	0.44
1:CA:729:A:H2'	1:CA:730:G:H8	1.82	0.44
45:DK:7:VAL:O	45:DK:8:VAL:HG13	2.18	0.44
19:AS:52:TYR:HA	19:AS:56:GLN:O	2.18	0.44
2:CB:177:ALA:O	2:CB:180:LEU:N	2.50	0.44
45:BK:7:VAL:O	45:BK:8:VAL:HG13	2.18	0.44
2:AB:73:THR:HG22	2:AB:95:GLN:O	2.18	0.44
35:DA:2511:U:O4	35:DA:2575:C:N3	2.51	0.44
35:DA:975(A):G:H1'	35:DA:990:A:C2	2.53	0.44
26:D1:12:PRO:HB3	26:D1:43:TYR:CD2	2.51	0.44
17:AQ:70:ARG:O	17:AQ:71:PHE:CG	2.71	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:108:LYS:O	40:BF:112:MET:HB2	2.18	0.44
10:AJ:32:ALA:H	10:AJ:78:ASN:CG	2.20	0.44
10:AJ:99:LYS:O	10:AJ:100:THR:HG23	2.18	0.44
16:CP:75:ARG:C	16:CP:77:ALA:N	2.70	0.44
1:AA:1500:A:OP2	1:AA:1505:G:OP1	2.36	0.44
34:B9:11:CYS:HB3	34:B9:12:ASP:H	1.62	0.44
26:B1:73:LEU:HD22	26:B1:94:LEU:HD23	1.98	0.44
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.30	0.44
1:AA:860:A:H2'	1:AA:861:G:O4'	2.18	0.44
35:BA:1926:U:H2'	35:BA:1928:A:OP2	2.17	0.44
41:DG:138:GLN:OE1	41:DG:153:ARG:N	2.51	0.44
25:D0:19:LYS:O	25:D0:20:ARG:C	2.56	0.44
12:CL:119:LYS:HB2	12:CL:120:TYR:HD1	1.83	0.44
1:CA:1001:A:N3	1:CA:1001(A):G:N7	2.66	0.44
49:BQ:60:ARG:HA	58:BZ:178:GLU:O	2.18	0.44
12:AL:117:ARG:NH2	12:AL:124:LYS:HA	2.33	0.44
46:BN:90:MET:HA	46:BN:93:THR:HG22	1.99	0.44
1:AA:66:G:H21	1:AA:172:A:H2	1.64	0.44
35:BA:2192:G:C2	35:BA:2193:G:C8	3.06	0.44
10:CJ:9:ARG:NH2	10:CJ:95:GLU:HG2	2.33	0.44
1:AA:977:A:C2'	1:AA:978:A:H5'	2.48	0.44
58:DZ:87:ASP:N	58:DZ:87:ASP:OD2	2.51	0.44
1:AA:532:A:C2	1:AA:1207:G:H1'	2.52	0.44
35:DA:557:U:O2	46:DN:45:ASN:HB2	2.17	0.44
40:BF:129:PHE:CE1	40:BF:142:TRP:CH2	3.06	0.44
35:DA:1560:G:N2	35:DA:1561:G:H1'	2.32	0.44
13:CM:44:ARG:CB	13:CM:46:LYS:HG2	2.47	0.44
16:AP:58:TYR:CD1	16:AP:58:TYR:C	2.90	0.44
11:CK:126:ARG:HB3	11:CK:126:ARG:CZ	2.48	0.44
35:BA:37:C:H2'	35:BA:38:A:H8	1.81	0.44
35:BA:2243:U:O2	35:BA:2434:A:C2	2.71	0.44
36:BB:88:C:H2'	36:BB:89:G:O4'	2.18	0.44
4:CD:91:SER:O	4:CD:94:LEU:HB2	2.18	0.44
1:CA:35:G:N2	12:CL:118:SER:OG	2.37	0.44
1:CA:515:G:C2	1:CA:537:G:C2	3.06	0.44
25:B0:78:TYR:N	25:B0:78:TYR:CD1	2.86	0.44
1:AA:1068:G:OP2	1:AA:1094:G:H5'	2.17	0.44
17:AQ:12:SER:N	17:AQ:53:LEU:HD13	2.32	0.44
60:DI:14:ASP:HB2	60:DI:17:GLN:OE1	2.18	0.44
44:BJ:71:UNK:O	44:BJ:72:UNK:O	2.36	0.44
1:CA:185:A:N3	20:CT:81:LYS:NZ	2.63	0.44
35:BA:2507:C:C2	35:BA:2508:G:C8	3.06	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DJ:70:UNK:C	44:DJ:72:UNK:N	2.81	0.44
1:AA:539:A:H2'	1:AA:540:G:C8	2.53	0.44
35:DA:1401:G:H2'	35:DA:1402:C:C6	2.53	0.44
35:DA:422:A:C6	35:DA:423:A:C6	3.06	0.44
8:CH:40:ALA:HB2	8:CH:45:ILE:HG13	2.00	0.44
44:BJ:110:UNK:O	44:BJ:111:UNK:CB	2.65	0.44
35:BA:2070:G:C2	35:BA:2442:C:C2	3.05	0.44
49:BQ:11:LYS:HE2	49:BQ:88:GLY:O	2.18	0.44
2:AB:114:ARG:CZ	2:AB:118:LEU:HD21	2.48	0.44
37:BC:192:PHE:HA	37:BC:196:LEU:CB	2.48	0.44
1:CA:754:C:H1'	15:CO:69:TYR:CG	2.53	0.44
22:AW:54:U:H2'	22:AW:55:U:H5'	2.00	0.44
3:AC:165:THR:O	3:AC:165:THR:HG22	2.16	0.44
55:BW:99:ARG:HG2	55:BW:99:ARG:NH1	2.32	0.44
24:AY:355:ARG:H	24:AY:355:ARG:HD2	1.83	0.44
48:DP:83:VAL:HG13	48:DP:83:VAL:O	2.17	0.44
55:BW:69:LEU:HA	55:BW:108:GLY:O	2.17	0.44
35:BA:2459:A:C5	35:BA:2460:U:C5	3.06	0.44
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.17	0.44
58:BZ:97:GLU:HB3	58:BZ:125:LEU:CD1	2.39	0.43
58:DZ:98:MET:C	58:DZ:98:MET:HE3	2.39	0.43
2:CB:30:ARG:HH21	2:CB:194:PRO:CB	2.31	0.43
16:AP:17:TYR:CD1	16:AP:17:TYR:N	2.86	0.43
30:D5:3:LYS:HB2	35:DA:747:U:H5	1.80	0.43
25:B0:41:ARG:HD3	25:B0:44:ARG:CD	2.48	0.43
59:D4:36:VAL:HG22	59:D4:52:SER:O	2.18	0.43
41:BG:72:ARG:NH1	41:BG:86:MET:HA	2.32	0.43
35:BA:1658:C:OP1	39:BE:132:HIS:CE1	2.71	0.43
38:DD:111:LEU:HA	38:DD:115:GLN:OE1	2.18	0.43
27:B2:35:LEU:HD11	27:B2:49:LYS:HB3	1.99	0.43
53:DU:92:ARG:NH2	54:DV:11:GLN:O	2.51	0.43
54:DV:35:LEU:HB2	54:DV:57:VAL:HG13	2.00	0.43
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	2.00	0.43
35:DA:784:A:C6	38:DD:229:VAL:HG21	2.53	0.43
52:BT:100:TYR:CD2	52:BT:103:ARG:NH2	2.77	0.43
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.18	0.43
27:B2:28:LYS:HB3	27:B2:57:ILE:HD13	2.00	0.43
1:CA:1223:C:H3'	1:CA:1224:G:H5''	2.00	0.43
39:DE:111:ARG:HA	50:DR:2:ARG:CD	2.47	0.43
22:AW:63:G:H5'	37:BC:52:ARG:O	2.18	0.43
39:BE:111:ARG:HA	50:BR:2:ARG:CD	2.47	0.43
19:AS:16:LEU:C	19:AS:18:LYS:N	2.71	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:195:A:H5''	35:BA:196:A:OP2	2.18	0.43
9:AI:4:TYR:HD1	9:AI:4:TYR:N	2.16	0.43
9:AI:59:PHE:O	9:AI:61:ALA:N	2.51	0.43
38:BD:72:LYS:HE2	38:BD:101:GLU:OE1	2.18	0.43
22:AW:8:U:OP2	22:AW:12:U:H5	2.01	0.43
35:DA:312:G:H5'	35:DA:331:A:O2'	2.18	0.43
24:CY:174:GLU:OE2	24:CY:175:ASN:HB2	2.18	0.43
1:CA:373:A:C4	1:CA:482:A:N7	2.86	0.43
35:DA:2020:A:OP1	53:DU:26:GLY:HA3	2.17	0.43
35:BA:2808:U:H2'	35:BA:2809:A:C5'	2.48	0.43
35:DA:27:G:O2'	35:DA:28:A:P	2.76	0.43
1:CA:7:G:O2'	5:CE:120:THR:O	2.36	0.43
1:CA:724:G:C2	1:CA:725:G:C8	3.06	0.43
35:DA:2136:C:H2'	35:DA:2137:C:C6	2.53	0.43
35:BA:1437:C:H2'	35:BA:1438:U:H6	1.82	0.43
51:DS:34:HIS:HB3	51:DS:53:SER:HB3	2.00	0.43
24:AY:193:SER:OG	24:AY:202:HIS:HB2	2.18	0.43
50:BR:104:ARG:HB2	50:BR:104:ARG:HH11	1.77	0.43
35:BA:2695:C:H2'	35:BA:2696:U:H6	1.82	0.43
35:BA:2617:C:H2'	35:BA:2618:G:C5'	2.48	0.43
45:BK:62:ASP:C	45:BK:64:SER:N	2.69	0.43
12:AL:42:THR:O	12:AL:42:THR:HG23	2.18	0.43
1:CA:1291:G:OP1	7:CG:37:ASN:ND2	2.51	0.43
40:BF:132:VAL:O	40:BF:133:ASN:C	2.57	0.43
1:AA:277:C:H2'	1:AA:278:G:H8	1.83	0.43
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.18	0.43
39:DE:151:TYR:HD2	39:DE:154:LYS:HZ3	1.66	0.43
8:CH:33:GLU:O	8:CH:35:ILE:N	2.51	0.43
8:CH:36:LEU:HA	8:CH:39:LEU:HD23	1.99	0.43
9:AI:20:ARG:O	9:AI:60:ASP:N	2.51	0.43
17:CQ:45:HIS:CG	17:CQ:65:ILE:HD13	2.53	0.43
1:AA:560:U:H4'	1:AA:561:U:C5'	2.46	0.43
42:BH:85:LYS:HE2	42:BH:145:ALA:CB	2.48	0.43
6:CF:96:PRO:HB3	18:CR:30:ASP:CG	2.38	0.43
1:CA:472:A:C2'	1:CA:473:G:H5'	2.47	0.43
2:AB:91:PRO:HG3	2:AB:155:LEU:HD23	2.00	0.43
58:BZ:74:VAL:HG22	58:BZ:86:VAL:HG12	2.00	0.43
1:AA:295:C:H2'	1:AA:296:U:H6	1.82	0.43
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.52	0.43
35:DA:1563:G:O2'	35:DA:1564:C:H5'	2.18	0.43
52:BT:54:ARG:HA	52:BT:59:THR:HB	2.00	0.43
35:DA:960:A:C8	35:DA:962:G:C8	3.06	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:14:TYR:HD1	52:DT:14:TYR:H	1.64	0.43
35:BA:1286:A:H2'	35:BA:1288:U:OP2	2.18	0.43
35:BA:528:A:H2	35:BA:2043:C:O5'	2.01	0.43
17:CQ:81:ARG:C	17:CQ:83:ASP:N	2.71	0.43
35:BA:654:A:H1'	35:BA:654(A):G:H1'	1.99	0.43
35:BA:2011:U:H2'	35:BA:2012:G:H5'	2.00	0.43
9:CI:23:ASN:N	9:CI:23:ASN:ND2	2.66	0.43
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.53	0.43
49:DQ:137:TYR:CD1	49:DQ:138:ASP:N	2.86	0.43
11:AK:70:LYS:HA	11:AK:73:MET:HG2	2.00	0.43
1:CA:189(F):U:C2	17:CQ:72:ARG:NH1	2.86	0.43
44:BJ:70:UNK:C	44:BJ:72:UNK:N	2.81	0.43
44:DJ:72:UNK:O	44:DJ:73:UNK:CB	2.66	0.43
1:CA:1076:C:O2'	1:CA:1077:G:H5'	2.17	0.43
56:BX:54:VAL:HG22	56:BX:81:VAL:HG12	2.00	0.43
2:CB:103:THR:CG2	2:CB:179:LYS:HD3	2.48	0.43
10:CJ:64:GLU:HG2	14:CN:59:ALA:HB2	1.99	0.43
35:BA:703:U:C2'	35:BA:704:G:H5'	2.48	0.43
26:B1:86:SER:O	26:B1:90:ILE:CG1	2.66	0.43
33:D8:30:ARG:HD3	33:D8:30:ARG:HA	1.63	0.43
35:BA:924:C:H2'	35:BA:925:C:H6	1.83	0.43
30:D5:40:LYS:HE3	30:D5:46:CYS:CA	2.45	0.43
35:DA:481:G:HO2'	35:DA:507:A:H61	1.67	0.43
2:CB:39:ILE:HG22	2:CB:40:HIS:H	1.82	0.43
40:BF:5:ALA:N	40:BF:18:ARG:O	2.51	0.43
40:BF:1:MET:O	40:BF:2:LYS:O	2.36	0.43
40:BF:8:GLN:O	40:BF:9:ILE:C	2.56	0.43
47:BO:23:ARG:HG2	47:BO:23:ARG:NH1	2.33	0.43
24:AY:23:GLU:HG3	24:AY:24:THR:N	2.32	0.43
24:AY:68:ASP:OD2	24:AY:91:LEU:HD21	2.19	0.43
22:CW:39:U:C2'	22:CW:40:C:C5'	2.95	0.43
52:DT:28:VAL:HG22	52:DT:46:GLU:CA	2.48	0.43
1:CA:545:C:O2'	1:CA:546:G:H5'	2.18	0.43
54:DV:40:LEU:HD22	54:DV:46:VAL:HA	2.00	0.43
48:BP:129:ALA:C	48:BP:130:PHE:HD2	2.22	0.43
2:AB:185:ILE:HD11	2:AB:199:TYR:CD1	2.50	0.43
57:BY:38:ILE:HG22	57:BY:39:VAL:N	2.32	0.43
31:D6:37:ARG:CG	31:D6:37:ARG:NH1	2.80	0.43
41:DG:103:LEU:O	41:DG:107:LEU:HD23	2.17	0.43
41:DG:178:PHE:HA	41:DG:179:PRO:HD3	1.84	0.43
57:BY:7:VAL:CG2	57:BY:8:LYS:HZ3	2.26	0.43
38:DD:223:GLY:O	38:DD:225:ALA:N	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:284:TYR:O	24:AY:288:ARG:N	2.51	0.43
53:BU:90:VAL:C	53:BU:92:ARG:H	2.21	0.43
8:CH:103:VAL:O	8:CH:105:ARG:N	2.51	0.43
57:DY:38:ILE:HG22	57:DY:39:VAL:N	2.33	0.43
48:BP:59:LEU:CA	48:BP:61:ARG:NE	2.70	0.43
2:AB:187:LEU:CD2	2:AB:201:ILE:HG22	2.48	0.43
42:DH:98:LEU:N	42:DH:125:VAL:HG21	2.32	0.43
38:BD:25:THR:HG21	38:BD:82:ILE:N	2.31	0.43
22:AW:47:U:O2'	22:AW:48:C:H5'	2.18	0.43
39:DE:3:GLY:HA3	39:DE:81:ILE:CG2	2.40	0.43
39:DE:3:GLY:CA	39:DE:81:ILE:HG21	2.43	0.43
22:CW:55:U:C4	22:CW:57:G:H5'	2.53	0.43
1:CA:976:G:N2	1:CA:1363:C:OP2	2.46	0.43
2:AB:36:ARG:HB2	2:AB:41:ILE:HD11	1.99	0.43
35:BA:26:G:C6	35:BA:27:G:N1	2.85	0.43
38:DD:142:VAL:CG2	38:DD:143:HIS:N	2.81	0.43
24:CY:253:HIS:HB3	24:CY:258:ILE:CG1	2.48	0.43
20:AT:24:LEU:O	20:AT:25:ARG:C	2.55	0.43
2:CB:153:ARG:O	2:CB:154:LEU:C	2.57	0.43
45:BK:125:ARG:C	45:BK:127:ILE:N	2.71	0.43
50:DR:34:ILE:CG2	50:DR:35:THR:N	2.81	0.43
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	2.01	0.43
24:AY:136:LEU:HD11	24:AY:187:HIS:HB2	2.01	0.43
35:DA:2617:C:H2'	35:DA:2618:G:C5'	2.48	0.43
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.99	0.43
17:AQ:68:ARG:H	17:AQ:70:ARG:HH12	1.63	0.43
13:AM:15:VAL:CG1	13:AM:45:VAL:HG22	2.45	0.43
1:AA:1007:C:H2'	1:AA:1008:C:H6	1.82	0.43
17:CQ:2:PRO:O	17:CQ:3:LYS:C	2.56	0.43
56:DX:88:LYS:HE3	56:DX:93:GLU:CG	2.45	0.43
8:AH:29:SER:O	8:AH:32:LYS:N	2.51	0.43
35:BA:829:A:N7	35:BA:2248:C:H5'	2.33	0.43
34:D9:30:PRO:HB2	35:DA:2527:C:C5'	2.46	0.43
1:AA:181:G:H21	1:AA:183:G:N2	2.16	0.43
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.75	0.43
39:DE:119:ARG:HD3	39:DE:120:TRP:CE2	2.54	0.43
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.83	0.43
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.53	0.43
1:AA:862:C:H2'	1:AA:863:U:C5'	2.47	0.43
35:BA:324:A:H2'	35:BA:325:G:C5'	2.49	0.43
45:BK:105:LEU:HD21	45:BK:120:LEU:HD13	2.00	0.43
47:DO:47:ILE:HG23	47:DO:48:PRO:CD	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1770:G:O2'	35:DA:1771:C:H5'	2.18	0.43
1:AA:39:G:C5	1:AA:498:U:O4	2.72	0.43
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.52	0.43
40:BF:139:PHE:CG	40:BF:167:ALA:HB2	2.53	0.43
50:DR:39:PRO:C	50:DR:41:ALA:N	2.71	0.43
35:DA:2673:G:O2'	35:DA:2674:G:H5'	2.18	0.43
52:BT:112:ARG:HB3	52:BT:112:ARG:NH1	2.33	0.43
1:CA:1476:G:H2'	1:CA:1477:C:C6	2.53	0.43
6:CF:46:ARG:HH22	18:CR:37:VAL:HG21	1.83	0.43
35:BA:1374:G:C2	35:BA:1375:C:C2	3.06	0.43
35:BA:1374:G:H2'	35:BA:1375:C:O4'	2.18	0.43
35:DA:654(Q):C:H2'	35:DA:654(R):C:H6	1.82	0.43
1:AA:152:A:H62	1:AA:169:C:H42	1.66	0.43
2:AB:14:GLY:HA3	2:AB:16:HIS:HE1	1.82	0.43
40:DF:164:ARG:HG2	40:DF:164:ARG:NH1	2.33	0.43
35:BA:1991:U:C2'	35:BA:1992:G:H5''	2.48	0.43
12:CL:5:PRO:HA	12:CL:9:GLN:OE1	2.18	0.43
35:DA:1423:G:H2'	35:DA:1424:G:H8	1.83	0.43
1:AA:1187:G:H4'	9:AI:111:ARG:NH1	2.33	0.43
25:D0:69:PHE:CD2	25:D0:79:VAL:HG22	2.53	0.43
1:AA:648:A:H2'	1:AA:649:G:H8	1.83	0.43
35:BA:1351:C:H2'	35:BA:1352:U:C6	2.53	0.43
35:BA:455:C:N3	35:BA:472:A:H2'	2.32	0.43
1:AA:233:C:H2'	1:AA:234:C:H6	1.82	0.43
8:AH:125:ARG:HG3	8:AH:125:ARG:HH11	1.82	0.43
8:CH:125:ARG:HH11	8:CH:125:ARG:HG3	1.82	0.43
46:BN:108:PRO:O	46:BN:113:GLY:HA3	2.18	0.43
26:D1:79:GLY:O	26:D1:80:LEU:HB2	2.19	0.43
26:D1:80:LEU:CD2	26:D1:81:LYS:N	2.78	0.43
26:B1:56:GLN:CA	26:B1:56:GLN:NE2	2.74	0.43
58:DZ:104:PHE:HB3	58:DZ:141:VAL:CG1	2.48	0.43
58:DZ:149:SER:OG	58:DZ:150:LEU:N	2.51	0.43
58:DZ:166:SER:HB2	58:DZ:167:PRO:CA	2.49	0.43
52:BT:27:THR:OG1	52:BT:28:VAL:N	2.50	0.43
57:DY:46:LYS:HD3	57:DY:47:LYS:HZ1	1.80	0.43
30:B5:45:VAL:HG13	30:B5:50:GLY:O	2.18	0.43
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.33	0.43
41:BG:63:ILE:HD13	41:BG:141:PHE:CD1	2.53	0.43
1:CA:431:A:O2'	1:CA:432:A:H5'	2.18	0.43
24:AY:31:ARG:HA	45:BK:25:PRO:HG3	2.00	0.43
53:DU:92:ARG:CZ	54:DV:11:GLN:O	2.66	0.43
26:D1:3:LYS:CG	26:D1:4:VAL:H	2.10	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:271(L):U:H5''	35:DA:271(M):G:OP1	2.18	0.43
40:BF:83:PHE:O	40:BF:84:VAL:CB	2.67	0.43
54:BV:49:THR:O	54:BV:50:PRO:C	2.53	0.43
42:DH:107:VAL:HG23	42:DH:107:VAL:O	2.18	0.43
31:D6:15:GLU:HG3	31:D6:47:THR:OG1	2.18	0.43
24:CY:31:ARG:HG2	24:CY:31:ARG:HH11	1.83	0.43
24:CY:46:ARG:HD3	45:DK:21:PRO:HB3	2.00	0.43
38:DD:244:ARG:HE	38:DD:245:PRO:HB3	1.83	0.43
52:DT:77:PRO:O	52:DT:78:LEU:HB3	2.19	0.43
25:B0:49:LYS:N	25:B0:80:HIS:CB	2.74	0.43
51:BS:26:LEU:HG	51:BS:39:ILE:HD11	2.00	0.43
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.86	0.43
36:BB:95:C:C2	36:BB:96:U:C5	3.06	0.43
9:AI:91:ASP:C	9:AI:92:TYR:CD1	2.92	0.43
42:DH:96:ALA:HB1	42:DH:105:LEU:HA	2.00	0.43
12:CL:88:GLY:H	12:CL:98:TYR:HA	1.83	0.43
48:BP:7:ARG:CG	48:BP:7:ARG:HH11	2.27	0.43
35:DA:2443:C:H2'	35:DA:2444:G:H8	1.83	0.43
22:CW:17:C:H5	35:DA:2181:G:H5'	1.83	0.43
22:CW:19:G:N2	22:CW:56:C:N3	2.65	0.43
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	2.19	0.43
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	2.18	0.43
19:AS:6:LYS:HD2	19:AS:7:LYS:N	2.32	0.43
1:AA:190:U:H2'	1:AA:191:G:C8	2.48	0.43
38:BD:133:LEU:HD23	38:BD:136:ILE:HD12	2.01	0.43
5:CE:19:MET:SD	5:CE:24:ARG:HB3	2.59	0.43
25:B0:32:ARG:N	25:B0:35:ASN:ND2	2.53	0.43
24:AY:113:GLU:HA	24:AY:175:ASN:CA	2.48	0.43
24:AY:174:GLU:HG2	24:AY:175:ASN:HD22	1.84	0.43
22:AV:36:A:C2	23:AX:20:U:C2	3.06	0.43
35:DA:1437:C:H2'	35:DA:1438:U:H6	1.82	0.43
51:BS:34:HIS:HB3	51:BS:53:SER:HB3	2.00	0.43
1:AA:437:U:O2'	1:AA:438:G:H5'	2.18	0.43
35:DA:1639:U:H4'	35:DA:2699:C:H4'	1.99	0.43
2:AB:153:ARG:O	2:AB:154:LEU:C	2.56	0.43
1:CA:1007:C:H2'	1:CA:1008:C:H6	1.83	0.43
8:AH:111:ILE:HG22	8:AH:112:LEU:N	2.33	0.43
8:AH:35:ILE:O	8:AH:39:LEU:HD23	2.18	0.43
6:AF:19:LEU:CD2	6:AF:23:LYS:HD2	2.49	0.43
7:CG:75:VAL:HG13	7:CG:145:ALA:CA	2.48	0.43
10:AJ:70:ARG:CA	10:AJ:70:ARG:HE	2.28	0.43
1:AA:924:C:O2'	1:AA:1502:A:N6	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2863:C:H2'	35:BA:2864:G:H8	1.82	0.43
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	2.32	0.43
35:BA:888:C:O2'	35:BA:889:C:H5'	2.18	0.43
35:DA:1101:U:H2'	35:DA:1102:C:C6	2.53	0.43
3:CC:22:TRP:CZ2	14:CN:54:PRO:HG2	2.53	0.43
55:DW:1:MET:O	55:DW:64:MET:HE3	2.18	0.43
1:AA:1350:A:OP2	9:AI:118:LYS:HD3	2.18	0.43
39:DE:66:HIS:HD2	39:DE:66:HIS:C	2.21	0.43
38:DD:231:HIS:ND1	38:DD:232:PRO:CD	2.81	0.43
35:BA:958:U:H3'	35:BA:958:U:C6	2.53	0.43
35:DA:1793:C:H2'	35:DA:1794:U:H6	1.82	0.43
44:DJ:130:UNK:O	44:DJ:132:UNK:N	2.52	0.43
17:CQ:87:LYS:O	17:CQ:91:ARG:HB2	2.18	0.43
47:BO:97:ARG:HG3	47:BO:97:ARG:HH11	1.83	0.43
35:DA:2649:U:H2'	35:DA:2650:U:C6	2.53	0.43
47:DO:13:ASN:HD21	47:DO:97:ARG:N	2.17	0.43
35:BA:1665:A:C2'	35:BA:1666:G:H5'	2.48	0.43
46:BN:18:ALA:HB1	46:BN:21:LYS:HB2	2.01	0.43
35:BA:580:C:H2'	35:BA:581:C:H6	1.83	0.43
1:CA:658:G:OP1	15:CO:31:LEU:HD21	2.18	0.43
16:CP:12:LYS:O	16:CP:13:HIS:HB2	2.17	0.43
1:AA:580:U:H2'	1:AA:581:G:O4'	2.18	0.43
10:CJ:29:ARG:HB3	10:CJ:29:ARG:CZ	2.49	0.43
15:AO:32:LEU:O	15:AO:35:ARG:N	2.51	0.43
2:AB:161:ALA:HA	2:AB:182:ILE:CG2	2.48	0.43
35:DA:2243:U:O2	35:DA:2434:A:C2	2.71	0.43
56:DX:83:VAL:O	56:DX:84:ALA:C	2.57	0.43
44:BJ:73:UNK:C	44:BJ:75:UNK:N	2.79	0.43
35:BA:803:U:C2'	35:BA:804:A:H5'	2.48	0.43
1:AA:384:G:O2'	1:AA:385:C:H5'	2.19	0.43
40:DF:155:LEU:HD12	40:DF:174:VAL:O	2.18	0.43
50:DR:103:ARG:HD3	50:DR:108:GLY:C	2.38	0.43
24:CY:148:GLY:O	24:CY:149:PHE:HD1	2.01	0.43
35:DA:839:U:H1'	35:DA:1191:G:H1'	2.00	0.43
35:DA:765:G:H2'	35:DA:766:C:C6	2.53	0.43
1:AA:55:A:C2	60:DI:89:TYR:CG	3.06	0.43
44:DJ:74:UNK:O	44:DJ:76:UNK:N	2.51	0.43
36:BB:43:C:H5'	36:BB:44:G:OP2	2.18	0.43
35:BA:2758:A:C4	42:BH:67:LEU:HD21	2.54	0.43
42:BH:71:LEU:HD23	42:BH:71:LEU:O	2.19	0.43
58:DZ:144:LEU:CD1	58:DZ:149:SER:HA	2.49	0.43
35:DA:813:U:H2'	35:DA:814:C:C6	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:376:G:OP1	16:AP:6:LEU:HD13	2.18	0.43
24:AY:65:LEU:HD11	24:AY:95:ALA:CA	2.44	0.43
4:AD:8:VAL:HA	4:AD:11:LEU:HD21	2.00	0.43
35:BA:2310:A:C2	41:BG:77:ILE:HD12	2.53	0.43
41:BG:61:ALA:O	41:BG:63:ILE:N	2.50	0.43
35:BA:2308:G:N2	41:BG:79:ASN:CG	2.71	0.43
28:B3:3:ARG:HA	28:B3:37:LEU:O	2.19	0.43
35:DA:1155:A:O3'	53:DU:55:ARG:NH1	2.52	0.43
42:BH:107:VAL:O	42:BH:107:VAL:HG23	2.17	0.43
38:BD:244:ARG:HE	38:BD:245:PRO:HB3	1.84	0.43
42:DH:160:LYS:HB2	42:DH:161:GLY:H	1.53	0.43
35:DA:2400:G:N2	35:DA:2417:C:C2	2.87	0.43
24:CY:46:ARG:HG3	45:DK:21:PRO:CG	2.48	0.43
38:DD:244:ARG:NE	38:DD:245:PRO:HB3	2.33	0.43
1:CA:954:G:H2'	1:CA:955:U:H6	1.80	0.43
51:DS:89:ARG:CB	51:DS:92:TYR:HB3	2.43	0.43
57:DY:2:ARG:N	57:DY:5:MET:CE	2.81	0.43
35:DA:1142(A):A:C5	35:DA:1144:G:C5	3.06	0.43
9:AI:80:GLY:O	9:AI:84:ALA:N	2.52	0.43
58:BZ:56:VAL:HG12	58:BZ:57:ILE:N	2.33	0.43
35:BA:661:C:O3'	48:BP:18:ARG:HD2	2.19	0.43
13:AM:87:TYR:HE1	19:AS:81:ARG:NH2	2.15	0.43
19:AS:12:ASP:HB3	19:AS:14:HIS:CE1	2.53	0.43
40:DF:185:ASP:OD1	40:DF:188:ARG:NH1	2.51	0.43
40:DF:185:ASP:OD1	40:DF:188:ARG:CZ	2.66	0.43
40:DF:66:PRO:O	40:DF:67:GLN:CB	2.55	0.43
9:CI:4:TYR:CE2	9:CI:88:TYR:HB3	2.52	0.43
20:AT:49:ALA:O	20:AT:53:LEU:HD12	2.18	0.43
8:AH:85:ARG:NE	8:AH:87:SER:O	2.51	0.43
39:DE:3:GLY:O	39:DE:4:ILE:HB	2.17	0.43
47:BO:104:ARG:NH1	47:BO:104:ARG:CB	2.81	0.43
1:AA:386:C:C2'	1:AA:387:U:H5'	2.48	0.43
35:DA:2282:G:OP1	35:DA:2283:C:H1'	2.17	0.43
35:DA:95:G:N2	35:DA:96:G:H1'	2.34	0.43
1:CA:1452:C:OP1	1:CA:1456:G:N7	2.51	0.43
39:DE:178:GLU:HG3	39:DE:179:GLU:N	2.33	0.43
35:BA:389:G:H22	48:BP:72:PRO:HD3	1.84	0.43
35:DA:1052:C:H2'	35:DA:1053:C:C6	2.54	0.43
1:AA:1426:C:H1'	1:AA:1475:G:N2	2.32	0.43
8:CH:84:ARG:NH1	8:CH:84:ARG:HG2	2.32	0.43
5:CE:105:VAL:N	5:CE:106:PRO:HD2	2.32	0.43
5:CE:105:VAL:HG12	5:CE:106:PRO:N	2.32	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:AX:17:A:H2	23:AX:18:A:C8	2.36	0.43
14:AN:13:THR:N	14:AN:14:PRO:HD2	2.27	0.43
1:CA:426:G:H2'	1:CA:427:U:C6	2.53	0.43
57:DY:42:VAL:HG11	57:DY:65:ALA:HB3	1.95	0.43
2:CB:112:VAL:HG11	2:CB:153:ARG:HA	1.99	0.43
51:DS:58:LEU:HG	51:DS:65:VAL:HG13	2.00	0.43
50:DR:83:ILE:HD13	50:DR:86:ARG:HH12	1.84	0.43
46:BN:25:ARG:CG	46:BN:25:ARG:NH1	2.82	0.43
1:CA:1056:U:O2'	1:CA:1057:G:H5'	2.18	0.43
26:B1:29:GLY:C	26:B1:30:VAL:HG22	2.38	0.43
11:AK:21:ILE:HG21	11:AK:94:ALA:CB	2.48	0.43
1:AA:518:C:H3'	24:AY:188:ARG:HH12	1.84	0.43
47:BO:91:LEU:N	47:BO:91:LEU:HD22	2.33	0.43
2:AB:82:ARG:HH11	2:AB:83:MET:CE	2.31	0.43
1:CA:1394:A:N6	1:CA:1501:C:H5'	2.34	0.43
28:B3:13:ILE:N	28:B3:13:ILE:CD1	2.80	0.43
17:AQ:68:ARG:O	17:AQ:69:LYS:HB2	2.19	0.43
40:DF:132:VAL:CG1	40:DF:133:ASN:H	2.19	0.43
50:BR:54:LEU:HD23	50:BR:66:VAL:CG2	2.48	0.43
36:BB:13:A:O2'	36:BB:14:U:H5''	2.19	0.43
1:CA:1515:C:H2'	1:CA:1516:G:H8	1.83	0.43
8:CH:97:VAL:CG1	8:CH:98:LYS:H	2.31	0.43
35:BA:717:G:H2'	35:BA:718:A:O4'	2.18	0.43
8:CH:29:SER:O	8:CH:32:LYS:N	2.52	0.43
42:DH:138:LYS:C	42:DH:140:LYS:N	2.72	0.43
1:AA:1152:A:H3'	10:AJ:13:HIS:ND1	2.32	0.43
1:AA:926:G:C6	1:AA:1505:G:C5	3.07	0.43
35:DA:1300:U:O2	35:DA:1300:U:O4'	2.36	0.43
1:AA:1255:G:H3'	1:AA:1279:A:N6	2.31	0.43
15:CO:64:ARG:HD3	15:CO:68:ARG:NH2	2.33	0.43
4:AD:60:GLU:OE1	4:AD:198:VAL:HA	2.19	0.43
35:DA:885:C:H6	35:DA:885:C:H3'	1.83	0.43
1:CA:1037:C:H2'	1:CA:1038:C:N1	2.33	0.43
17:AQ:87:LYS:O	17:AQ:91:ARG:HB2	2.18	0.43
6:CF:33:TYR:HD1	6:CF:75:LEU:CB	2.30	0.43
55:BW:79:GLY:O	55:BW:100:THR:HG23	2.19	0.43
17:CQ:81:ARG:O	17:CQ:83:ASP:N	2.50	0.43
35:BA:828:U:C3'	35:BA:828:U:O2	2.66	0.43
35:DA:825:C:C2'	35:DA:826:U:O5'	2.67	0.43
35:DA:1783:A:C2	35:DA:2587:A:C4	3.06	0.43
35:DA:2011:U:H2'	35:DA:2012:G:H5'	2.00	0.43
35:DA:2555:U:C2'	35:DA:2556:C:H5'	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:15:VAL:HG23	2:AB:209:ARG:HB3	2.01	0.43
38:BD:231:HIS:CD2	38:BD:249:PRO:HG3	2.53	0.43
35:DA:919:G:H5'	36:DB:81:G:O4'	2.19	0.43
35:BA:1991:U:H2'	35:BA:1992:G:C5'	2.48	0.43
1:CA:889:A:N1	1:CA:907:A:H5''	2.33	0.43
2:AB:236:TYR:HA	2:AB:239:VAL:CG2	2.48	0.43
35:DA:2507:C:C2	35:DA:2508:G:C8	3.06	0.43
38:BD:7:LYS:O	38:BD:9:TYR:HD1	2.02	0.43
2:CB:114:ARG:NH2	2:CB:118:LEU:HD21	2.34	0.43
35:BA:839:U:O2'	35:BA:1191:G:N3	2.45	0.43
35:BA:36:G:N3	35:BA:450:G:O2'	2.51	0.43
1:AA:113:G:H2'	1:AA:114:U:C6	2.54	0.43
35:DA:900:A:H3'	35:DA:901:A:H8	1.83	0.43
35:DA:2588:G:O2'	35:DA:2589:A:H5'	2.19	0.43
35:DA:1398:C:O2'	35:DA:1399:C:H5'	2.18	0.43
35:DA:1313:U:C2'	35:DA:1313:U:O2	2.66	0.43
1:AA:1264:C:O2	1:AA:1272:G:C2	2.72	0.43
26:B1:81:LYS:CG	35:BA:271(H):G:H4'	2.45	0.43
57:DY:97:ARG:NH1	57:DY:98:VAL:HG23	2.34	0.43
45:DK:93:ARG:HE	58:DZ:112:ARG:CD	2.10	0.43
58:DZ:112:ARG:O	58:DZ:113:ALA:C	2.56	0.43
33:B8:63:PRO:C	33:B8:64:TYR:O	2.57	0.43
13:CM:3:ARG:CA	13:CM:9:ILE:HG13	2.47	0.43
52:BT:32:TYR:CB	52:BT:81:PRO:HB3	2.48	0.43
57:DY:45:VAL:HA	57:DY:62:GLU:CB	2.48	0.43
35:BA:480:A:H2	35:BA:499:U:O2	2.01	0.43
41:DG:75:LYS:HB3	41:DG:76:SER:H	1.69	0.43
4:CD:13:ARG:NH1	4:CD:36:ARG:HD2	2.33	0.43
4:CD:30:LYS:HB2	4:CD:35:ARG:HD2	1.98	0.43
25:D0:42:GLY:HA2	35:DA:2330:G:H21	1.84	0.43
9:CI:53:VAL:HG23	9:CI:55:ALA:CB	2.48	0.43
1:AA:980:C:H3'	1:AA:981:U:C6	2.54	0.43
41:DG:102:PHE:CD1	41:DG:103:LEU:N	2.87	0.43
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.82	0.43
53:BU:65:ILE:HG12	53:BU:96:ALA:CB	2.48	0.43
35:BA:784:A:C5'	38:BD:227:ASN:ND2	2.72	0.43
52:DT:33:LYS:HZ2	52:DT:74:ARG:HH21	1.64	0.43
57:DY:28:LYS:CB	57:DY:38:ILE:H	2.24	0.43
46:BN:128:HIS:HA	46:BN:129:PRO:HD2	1.86	0.43
1:CA:59:A:H61	1:CA:331:G:H1'	1.83	0.43
39:BE:111:ARG:O	50:BR:2:ARG:HG3	2.18	0.43
52:DT:100:TYR:CD2	52:DT:103:ARG:NH2	2.74	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1022:G:C6	35:BA:1140:C:C4	3.07	0.43
20:CT:104:LEU:HD23	20:CT:106:ALA:N	2.34	0.43
35:DA:2113:U:H2'	35:DA:2114:A:C8	2.52	0.43
35:BA:2282:G:OP1	35:BA:2283:C:H1'	2.17	0.43
57:DY:55:TYR:HB3	57:DY:56:PRO:CD	2.49	0.43
27:D2:35:LEU:HD11	27:D2:49:LYS:HB3	2.00	0.43
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	2.01	0.43
34:D9:17:ILE:HG13	34:D9:26:ILE:HD11	2.00	0.43
24:CY:258:ILE:C	24:CY:258:ILE:CD1	2.82	0.43
24:CY:284:TYR:CG	24:CY:284:TYR:O	2.71	0.43
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.32	0.43
7:AG:43:PHE:O	7:AG:46:ALA:HB3	2.18	0.43
1:CA:722:A:H3'	1:CA:722:A:N3	2.33	0.43
49:DQ:63:LYS:HD2	58:DZ:175:VAL:HG21	2.00	0.43
26:B1:18:ILE:HG21	26:B1:20:ARG:CZ	2.49	0.43
50:DR:54:LEU:HD23	50:DR:66:VAL:HG23	2.00	0.43
39:BE:134:ILE:H	39:BE:134:ILE:CD1	2.31	0.43
2:AB:92:TYR:H	2:AB:92:TYR:HD2	1.67	0.43
39:DE:21:VAL:O	39:DE:23:VAL:HG13	2.19	0.43
57:DY:30:VAL:CG1	57:DY:31:LEU:N	2.82	0.43
35:DA:1036:G:H2'	35:DA:1037:G:H8	1.81	0.43
26:D1:30:VAL:H	35:DA:2396:G:H4'	1.84	0.43
9:CI:20:ARG:NH1	9:CI:20:ARG:HG3	2.29	0.43
8:CH:44:PHE:HA	8:CH:79:VAL:HG11	1.99	0.43
35:BA:947:G:N3	35:BA:984:A:H2	2.17	0.43
1:CA:141:A:H2	1:CA:222:U:H3	1.65	0.43
42:BH:85:LYS:HG2	42:BH:85:LYS:O	2.18	0.43
1:AA:1152:A:H5'	10:AJ:70:ARG:HH12	1.82	0.43
1:CA:560:U:H4'	1:CA:561:U:C5'	2.47	0.43
35:DA:69:C:C2'	35:DA:70:G:H5'	2.49	0.43
5:AE:105:VAL:HG12	5:AE:106:PRO:N	2.33	0.43
48:BP:6:LEU:CD2	48:BP:6:LEU:H	2.29	0.43
1:CA:181:G:N2	1:CA:183:G:N2	2.62	0.43
1:AA:325:A:OP1	20:AT:70:SER:HB3	2.18	0.43
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.17	0.43
37:DC:68:LEU:CD1	37:DC:70:LYS:HZ1	2.32	0.43
35:BA:2352:A:N6	35:BA:2365:G:O2'	2.51	0.43
1:CA:745:C:H1'	1:CA:836:G:O2'	2.19	0.43
24:CY:302:VAL:O	24:CY:303:GLU:HG2	2.18	0.43
35:DA:1459:G:C2'	35:DA:1459:G:N3	2.82	0.43
7:AG:18:TYR:CE2	7:AG:59:LEU:HB2	2.54	0.43
35:BA:1045:A:C2	35:BA:1047:G:N2	2.87	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AQ:84:LEU:O	17:AQ:87:LYS:HB2	2.18	0.43
1:AA:1142:G:H2'	1:AA:1143:G:C5'	2.49	0.43
35:BA:2660:A:H2'	35:BA:2661:G:O4'	2.18	0.43
1:CA:1142:G:O2'	1:CA:1143:G:H5'	2.19	0.43
35:DA:1678:G:N2	35:DA:1989:G:N2	2.65	0.43
35:BA:1248:G:N2	40:BF:88:VAL:CG2	2.82	0.43
35:DA:1374:G:H2'	35:DA:1375:C:O4'	2.17	0.43
2:CB:14:GLY:HA3	2:CB:16:HIS:HE1	1.81	0.43
13:CM:82:MET:O	13:CM:83:ASP:C	2.56	0.43
48:DP:96:THR:O	48:DP:97:PRO:C	2.56	0.43
46:DN:26:LEU:HG	46:DN:30:ILE:HD11	1.99	0.43
1:CA:287:U:O2'	1:CA:288:A:H5'	2.18	0.43
5:CE:47:LYS:H	5:CE:47:LYS:HD2	1.84	0.43
35:BA:2822:G:H8	35:BA:2822:G:O5'	2.01	0.43
4:AD:165:MET:O	4:AD:167:GLY:N	2.51	0.43
1:CA:983:A:HO2'	1:CA:1049:U:HO2'	1.66	0.43
35:BA:1417:C:O2'	35:BA:1418:G:H5'	2.19	0.43
1:AA:1076:C:O2'	1:AA:1077:G:H5'	2.18	0.43
43:BI:1:MET:N	43:BI:21:VAL:O	2.51	0.43
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.18	0.43
35:BA:449:A:H4'	53:BU:3:ARG:NH1	2.34	0.43
20:AT:81:LYS:C	20:AT:83:ARG:H	2.21	0.43
35:DA:1941:C:H6	35:DA:1941:C:H5'	1.82	0.43
49:BQ:130:LYS:HD2	49:BQ:130:LYS:HA	1.62	0.43
34:D9:2:LYS:HB3	34:D9:3:VAL:H	1.61	0.43
35:BA:425:G:O2'	35:BA:426:C:H5'	2.18	0.43
35:DA:2404:C:O2'	35:DA:2405:G:H5'	2.18	0.43
38:BD:122:ASP:O	38:BD:123:ALA:O	2.36	0.43
35:DA:775:G:C4	35:DA:794:G:C8	3.07	0.43
57:DY:81:LYS:HZ1	57:DY:97:ARG:HG3	1.82	0.43
45:DK:91:PRO:O	58:DZ:112:ARG:NE	2.51	0.43
45:DK:94:GLU:HB3	58:DZ:112:ARG:HH12	1.83	0.43
31:B6:33:LYS:O	31:B6:34:LEU:CB	2.65	0.43
33:D8:32:LEU:O	33:D8:33:ASN:C	2.56	0.43
57:DY:60:PHE:CA	57:DY:62:GLU:OE2	2.54	0.43
18:AR:51:LEU:HD22	18:AR:55:ARG:CG	2.45	0.43
41:BG:133:LEU:HD12	41:BG:135:LEU:CD1	2.49	0.43
41:BG:38:VAL:HG12	41:BG:93:THR:CA	2.38	0.43
4:CD:52:SER:O	4:CD:53:ASP:C	2.55	0.43
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.66	0.43
37:BC:86:ALA:HB2	37:BC:152:ILE:CB	2.49	0.43
52:BT:12:SER:O	52:BT:13:ARG:CZ	2.67	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2400:G:N2	35:BA:2417:C:C2	2.86	0.43
22:AW:66:U:H2'	22:AW:67:C:C5	2.54	0.43
35:BA:1155:A:O3'	53:BU:55:ARG:NH1	2.52	0.43
9:CI:104:ARG:O	9:CI:105:ASP:HB2	2.18	0.43
35:BA:2127:G:H5'	37:BC:36:LYS:HE2	2.01	0.43
48:BP:60:MET:O	48:BP:61:ARG:O	2.36	0.43
24:CY:57:ARG:CA	24:CY:60:ASP:HB3	2.37	0.43
49:BQ:134:ARG:NH1	58:BZ:122:ARG:HD2	2.34	0.43
1:AA:619:U:N3	4:AD:135:LEU:HD11	2.33	0.43
42:DH:19:VAL:HG21	42:DH:44:VAL:CA	2.46	0.43
58:BZ:56:VAL:CG1	58:BZ:91:LEU:HD12	2.48	0.43
35:DA:142:A:N6	35:DA:1596:A:H5'	2.33	0.43
36:DB:95:C:C2	36:DB:96:U:C6	3.06	0.43
1:AA:957:U:H4'	19:AS:79:THR:HB	2.01	0.43
20:AT:45:GLN:HB2	20:AT:91:LEU:CD1	2.42	0.43
1:CA:1316:G:N1	1:CA:1319:A:OP2	2.47	0.43
22:AW:9:A:H5'	22:AW:46:G:O4'	2.19	0.43
52:BT:129:ARG:NE	52:BT:131:ALA:HB3	2.31	0.43
35:BA:2811:G:C2'	35:BA:2812:G:H5'	2.49	0.43
57:BY:68:HIS:HB3	57:BY:71:LYS:HG2	2.00	0.43
24:AY:112:ALA:HB1	24:AY:178:GLY:HA3	2.00	0.43
48:DP:125:VAL:O	48:DP:125:VAL:HG13	2.19	0.43
5:CE:34:VAL:O	5:CE:41:VAL:HA	2.18	0.43
7:AG:87:VAL:HA	7:AG:88:PRO:HD3	1.88	0.43
35:BA:1061:U:P	45:BK:9:LYS:NZ	2.92	0.43
46:DN:35:ARG:O	46:DN:42:TRP:HZ3	1.99	0.43
1:AA:416:G:OP2	35:DA:2153:G:H4'	2.18	0.43
24:AY:192:PRO:CA	24:AY:200:ARG:O	2.67	0.43
35:BA:118:A:C8	35:BA:119:A:C8	3.07	0.43
35:BA:2201:C:H2'	35:BA:2202:C:H6	1.84	0.43
35:BA:2022:U:HO2'	35:BA:2617:C:H5'	1.81	0.43
24:CY:269:ILE:HD12	49:DQ:80:GLU:CG	2.49	0.43
1:AA:626:U:O2'	1:AA:627:G:H5'	2.19	0.43
16:AP:8:ARG:CG	16:AP:9:PHE:N	2.82	0.43
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	2.32	0.43
16:CP:21:VAL:O	16:CP:33:ILE:HB	2.18	0.43
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.82	0.43
35:BA:2468:G:H8	35:BA:2476:A:H62	1.66	0.43
10:CJ:78:ASN:HB2	10:CJ:81:THR:CG2	2.45	0.43
4:CD:82:ALA:O	4:CD:85:LYS:HB2	2.19	0.43
8:CH:111:ILE:HG22	8:CH:112:LEU:N	2.33	0.43
49:BQ:137:TYR:CD1	49:BQ:138:ASP:N	2.86	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BK:100:THR:OG1	45:BK:102:GLU:HG2	2.19	0.43
1:CA:1152:A:H5'	10:CJ:70:ARG:HH12	1.82	0.43
35:DA:2745:C:H4'	42:DH:142:GLY:O	2.19	0.43
4:CD:3:ARG:HD3	4:CD:5:ILE:HG13	2.00	0.43
4:AD:205:GLU:O	4:AD:207:TYR:N	2.52	0.43
23:CX:24:A:O3'	24:CY:200:ARG:NH1	2.51	0.43
44:BJ:65:UNK:C	44:BJ:67:UNK:N	2.74	0.43
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.34	0.43
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.53	0.43
39:DE:98:PRO:HD3	39:DE:175:VAL:CG1	2.47	0.43
35:DA:2222:G:O2'	35:DA:2223:G:H5'	2.17	0.43
35:DA:2536:G:C6	35:DA:2537:U:C4	3.06	0.43
35:DA:672:C:O2'	35:DA:673:C:H5'	2.18	0.43
1:AA:160:A:H1'	1:AA:344:A:C5	2.54	0.43
35:BA:1288:U:N1	35:BA:1327:C:O2	2.52	0.43
35:BA:1532:C:O4'	35:BA:1532:C:O2	2.37	0.43
1:AA:171:A:H2'	1:AA:172:A:C8	2.52	0.43
6:AF:100:ASN:ND2	6:AF:100:ASN:N	2.67	0.43
1:CA:1142:G:H2'	1:CA:1143:G:C5'	2.49	0.43
35:BA:191:A:H2'	35:BA:192:C:C6	2.54	0.43
35:DA:654(S):G:H2'	35:DA:654(T):C:C6	2.53	0.43
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.83	0.43
35:DA:1335:U:O2'	35:DA:1336:A:H5'	2.19	0.43
11:AK:120:ARG:HH22	11:AK:126:ARG:HH21	1.66	0.43
36:DB:106:G:C2	36:DB:107:G:C8	3.07	0.43
46:BN:119:ARG:HB3	46:BN:119:ARG:HH11	1.84	0.43
1:CA:659:U:H2'	1:CA:660:G:C8	2.53	0.43
53:BU:17:ILE:HG23	53:BU:39:LEU:HD12	2.00	0.43
11:CK:114:VAL:HG22	11:CK:114:VAL:O	2.19	0.43
1:AA:1298:C:H2'	7:AG:114:ARG:HH12	1.82	0.43
45:DK:132:ARG:NH1	45:DK:132:ARG:HG3	2.34	0.43
35:BA:977:G:O2'	35:BA:978:G:H5'	2.19	0.43
35:DA:310:A:H1'	35:DA:311:A:H2'	2.01	0.43
1:CA:564:C:C4	17:CQ:31:LEU:HD11	2.54	0.43
12:CL:69:TYR:HB2	12:CL:96:VAL:HG11	2.00	0.43
50:BR:49:ASP:O	50:BR:52:ILE:HB	2.18	0.43
35:BA:1832:C:H2'	35:BA:1833:U:O5'	2.18	0.43
1:AA:770:C:O2'	1:AA:771:G:H5'	2.19	0.43
8:CH:128:GLY:O	8:CH:129:VAL:HG13	2.19	0.43
35:BA:310:A:H1'	35:BA:311:A:H2'	2.00	0.43
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.33	0.43
13:AM:102:ARG:O	13:AM:102:ARG:HG3	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:23:LYS:HA	58:BZ:23:LYS:HE2	2.01	0.43
35:DA:214:G:H1'	35:DA:216:A:O2'	2.19	0.43
36:DB:112:U:H2'	36:DB:113:G:H8	1.82	0.43
33:D8:7:HIS:CG	33:D8:59:LYS:HD2	2.53	0.43
30:D5:54:GLY:O	30:D5:56:LYS:NZ	2.40	0.43
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.32	0.43
24:AY:23:GLU:OE2	24:AY:52:ALA:HB1	2.19	0.43
25:B0:41:ARG:HB3	35:BA:2330:G:H1'	2.00	0.43
35:DA:2305:A:C2	35:DA:2306:C:H1'	2.54	0.43
41:BG:19:LEU:HD11	41:BG:172:LEU:HA	1.99	0.43
41:BG:82:LEU:CD2	41:BG:87:PRO:HD3	2.47	0.43
2:AB:174:VAL:HG13	2:AB:184:VAL:HG21	2.00	0.43
54:DV:4:ILE:HG22	54:DV:4:ILE:O	2.18	0.43
48:DP:129:ALA:C	48:DP:130:PHE:HD2	2.22	0.43
35:DA:1578:U:H2'	35:DA:1579:A:C5'	2.47	0.43
35:DA:1579:A:H2'	35:DA:1580:A:O4'	2.18	0.43
35:DA:1578:U:O2'	35:DA:1579:A:H5''	2.18	0.43
5:AE:126:ARG:NH1	5:AE:126:ARG:HG3	2.24	0.43
35:BA:1902:C:H1'	38:BD:244:ARG:HD3	2.01	0.43
52:DT:13:ARG:HH12	52:DT:15:VAL:CG1	2.31	0.43
9:CI:5:TYR:CD1	9:CI:6:GLY:N	2.87	0.43
26:D1:71:TYR:CE1	60:DI:27:ARG:HD2	2.52	0.43
31:D6:20:ASN:HD22	31:D6:21:TYR:H	1.60	0.43
31:B6:19:ARG:N	31:B6:19:ARG:CD	2.81	0.43
19:AS:43:GLU:OE1	19:AS:43:GLU:C	2.57	0.43
35:BA:784:A:N7	38:BD:229:VAL:HG21	2.33	0.43
33:B8:25:MET:CB	48:BP:62:LEU:HD21	2.46	0.43
9:AI:78:LYS:HZ3	9:AI:78:LYS:CB	2.30	0.43
27:D2:59:ARG:O	27:D2:60:LEU:C	2.57	0.43
35:DA:2820:A:O2'	35:DA:2821:A:OP1	2.33	0.43
6:AF:8:ILE:HD12	6:AF:26:ILE:CD1	2.49	0.43
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	2.01	0.43
1:AA:1225:A:H2'	1:AA:1226:C:C5	2.53	0.43
40:DF:40:GLN:OE1	40:DF:184:TYR:CB	2.67	0.43
20:CT:98:PRO:HB2	20:CT:106:ALA:HB1	2.01	0.43
9:AI:4:TYR:HB2	9:AI:19:LEU:HD12	2.00	0.43
39:DE:82:ARG:HB3	39:DE:83:ASP:H	1.42	0.43
3:AC:92:ALA:N	3:AC:99:VAL:HG11	2.34	0.43
52:BT:16:ARG:NE	52:BT:18:ASP:OD1	2.52	0.43
1:CA:1358:U:H2'	1:CA:1359:C:O4'	2.19	0.43
1:AA:372:C:N4	1:AA:387:U:H2'	2.33	0.43
5:AE:8:GLU:HA	5:AE:34:VAL:HA	1.99	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:176:ILE:HG22	39:DE:179:GLU:H	1.84	0.43
1:CA:437:U:O2'	1:CA:438:G:H5'	2.18	0.43
35:BA:1105:U:O2'	35:BA:1106:G:H5'	2.19	0.43
46:BN:58:ASP:C	46:BN:60:ILE:N	2.63	0.43
48:BP:70:GLN:O	48:BP:71:VAL:C	2.57	0.43
43:BI:4:ILE:HG23	43:BI:5:LEU:N	2.33	0.43
46:DN:69:GLN:O	46:DN:71:ILE:HG13	2.17	0.43
4:AD:30:LYS:HB2	4:AD:35:ARG:HD2	2.01	0.43
3:AC:150:LYS:HA	3:AC:169:ALA:CB	2.49	0.43
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	2.19	0.43
45:BK:125:ARG:O	45:BK:127:ILE:N	2.52	0.43
42:DH:26:VAL:O	42:DH:32:GLU:HA	2.18	0.43
47:BO:102:VAL:HG22	47:BO:120:GLU:O	2.18	0.43
42:BH:58:GLU:O	42:BH:61:HIS:N	2.52	0.43
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.19	0.43
45:DK:105:LEU:HD21	45:DK:120:LEU:HD13	2.01	0.43
3:AC:88:ARG:HH12	3:AC:101:LEU:HB3	1.79	0.43
7:CG:148:ASN:N	7:CG:148:ASN:ND2	2.66	0.43
11:AK:18:ARG:HB3	11:AK:33:THR:O	2.19	0.43
43:BI:125:GLU:HA	43:BI:142:VAL:O	2.18	0.43
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.54	0.43
1:AA:141:A:H2	1:AA:222:U:H3	1.65	0.43
1:CA:757:U:O2'	1:CA:879:C:H1'	2.19	0.43
38:DD:43:ARG:O	38:DD:44:ASN:O	2.37	0.43
7:AG:144:MET:CE	22:AW:31:A:H1'	2.49	0.43
2:AB:96:ARG:HD3	2:AB:148:TYR:CE1	2.47	0.43
8:CH:56:LYS:HA	8:CH:57:PRO:HD2	1.74	0.43
1:CA:69:G:H2'	1:CA:70:G:C8	2.53	0.43
33:D8:39:LYS:HE3	35:DA:2365:G:O6	2.19	0.43
6:CF:19:LEU:HD23	6:CF:19:LEU:O	2.19	0.43
18:CR:86:VAL:O	18:CR:87:ARG:HD3	2.19	0.43
5:AE:112:LEU:HD23	5:AE:112:LEU:N	2.33	0.43
35:BA:1819:A:H5''	38:BD:161:THR:HG21	1.99	0.43
25:D0:20:ARG:NH1	35:DA:2271:G:H4'	2.33	0.43
44:BJ:26:UNK:HA	44:BJ:84:UNK:CA	2.48	0.43
1:CA:66:G:H21	1:CA:172:A:H2	1.66	0.43
16:AP:72:ARG:HH21	16:AP:73:LEU:CD2	2.32	0.43
54:DV:2:PHE:O	54:DV:3:ALA:CB	2.66	0.43
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.54	0.43
11:AK:114:VAL:HG22	11:AK:114:VAL:O	2.18	0.43
44:DJ:26:UNK:HA	44:DJ:84:UNK:CA	2.48	0.43
35:BA:1624:G:O2'	35:BA:1625:C:H5'	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:170:LEU:HD12	40:BF:170:LEU:HA	1.81	0.43
35:DA:2192:G:H2'	35:DA:2192:G:N3	2.33	0.43
35:DA:1192:G:C2'	35:DA:1193:G:H5'	2.48	0.43
11:AK:126:ARG:CZ	11:AK:126:ARG:HB3	2.49	0.43
35:DA:1385:G:H1'	35:DA:1386:C:C6	2.53	0.43
46:BN:26:LEU:CG	46:BN:30:ILE:HD11	2.49	0.43
4:CD:98:GLU:C	4:CD:100:ARG:H	2.21	0.43
18:AR:74:ARG:HB3	18:AR:81:PHE:CZ	2.53	0.43
1:CA:1338:G:H2'	1:CA:1339:A:C8	2.54	0.43
22:AV:75:C:OP1	35:BA:2602:A:OP1	2.37	0.43
38:BD:148:GLU:HB3	38:BD:149:PRO:HD2	1.99	0.43
15:CO:32:LEU:O	15:CO:33:THR:C	2.57	0.43
44:DJ:71:UNK:O	44:DJ:72:UNK:O	2.37	0.43
35:BA:2748:A:O2'	42:BH:63:SER:HA	2.18	0.43
1:AA:155:C:H2'	1:AA:156:G:H8	1.84	0.43
35:DA:1010:A:H1'	35:DA:1153:C:H1'	2.01	0.43
1:AA:189(F):U:C4	17:AQ:72:ARG:CZ	3.01	0.43
35:DA:419:C:H2'	35:DA:420:C:O4'	2.19	0.43
58:DZ:114:GLY:O	58:DZ:177:PRO:HB3	2.19	0.43
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.34	0.43
35:DA:2048:G:C6	35:DA:2049:G:C5	3.06	0.43
52:BT:67:SER:O	52:BT:68:TYR:HB2	2.19	0.43
39:BE:38:THR:HG23	39:BE:41:LYS:HD2	2.01	0.43
10:AJ:47:PHE:CD1	10:AJ:47:PHE:O	2.72	0.43
47:DO:61:VAL:O	47:DO:61:VAL:HG13	2.17	0.43
35:DA:2607:G:H2'	35:DA:2608:G:O4'	2.19	0.43
3:CC:111:LEU:HD21	3:CC:145:GLY:O	2.18	0.43
1:AA:1179:A:H2'	1:AA:1180:A:O4'	2.19	0.43
35:DA:1034:G:H2'	35:DA:1035:U:H6	1.83	0.43
1:CA:134:A:H61	16:CP:25:ARG:NH1	2.17	0.43
35:DA:680:G:H2'	35:DA:681:G:C8	2.53	0.43
35:BA:1879:C:C3'	35:BA:1880:C:H5''	2.47	0.43
13:AM:3:ARG:CA	13:AM:9:ILE:HG13	2.47	0.43
31:D6:11:LEU:HD23	31:D6:25:LYS:N	2.34	0.43
52:BT:29:ARG:HA	52:BT:29:ARG:HD2	1.83	0.43
40:BF:18:ARG:CG	40:BF:19:GLU:N	2.82	0.43
33:B8:52:LYS:O	33:B8:55:ALA:HB3	2.17	0.43
28:D3:3:ARG:HA	28:D3:37:LEU:O	2.18	0.43
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.90	0.43
30:D5:2:ALA:HB2	35:DA:2014:A:O2'	2.17	0.43
40:DF:10:PRO:CG	40:DF:13:SER:HB2	2.39	0.43
40:DF:1:MET:O	40:DF:2:LYS:O	2.36	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:51:LEU:HD23	18:AR:52:PRO:HD2	2.00	0.43
41:BG:38:VAL:CG1	41:BG:93:THR:HA	2.36	0.43
38:DD:111:LEU:HD13	38:DD:115:GLN:OE1	2.19	0.43
35:DA:2344:U:H4'	35:DA:2345:G:OP1	2.18	0.43
25:D0:41:ARG:HB3	35:DA:2330:G:H1'	1.99	0.43
1:AA:557:G:H2'	1:AA:558:G:O4'	2.19	0.43
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.18	0.43
38:BD:244:ARG:NE	38:BD:245:PRO:HB3	2.33	0.43
57:BY:27:VAL:HA	57:BY:28:LYS:CE	2.49	0.43
9:CI:53:VAL:C	9:CI:55:ALA:H	2.22	0.43
38:DD:223:GLY:C	38:DD:225:ALA:H	2.21	0.43
52:DT:33:LYS:O	52:DT:41:ARG:HB2	2.19	0.43
5:CE:136:MET:C	5:CE:138:ALA:N	2.72	0.43
51:BS:20:ARG:NE	51:BS:20:ARG:CA	2.81	0.43
58:BZ:119:GLU:HG3	58:BZ:119:GLU:H	1.41	0.43
35:DA:1022:G:C6	35:DA:1140:C:C4	3.07	0.43
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.86	0.43
9:AI:46:ALA:HB2	9:AI:74:ILE:CG2	2.49	0.43
6:CF:8:ILE:HD12	6:CF:26:ILE:HD13	1.99	0.43
19:CS:13:ASP:O	19:CS:15:LEU:N	2.52	0.43
1:CA:321:A:C2	1:CA:333:G:C2	3.07	0.43
27:B2:2:LYS:O	27:B2:5:GLU:HB2	2.19	0.43
35:DA:2732:G:C3'	35:DA:2733:A:C5'	2.97	0.43
35:BA:1022:G:HO2'	35:BA:1023:U:P	2.41	0.43
35:BA:142:A:N6	35:BA:1596:A:H5'	2.34	0.43
35:BA:1407:C:N4	35:BA:1595:G:H1	2.16	0.43
38:BD:33:LEU:O	38:BD:36:PRO:CD	2.67	0.43
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.52	0.43
1:AA:1313:U:O2'	1:AA:1314:C:H5'	2.19	0.43
1:AA:1329:A:OP1	13:AM:29:ARG:HB2	2.18	0.43
52:BT:129:ARG:NH1	52:BT:131:ALA:HB3	2.32	0.43
1:CA:1458:G:O2'	1:CA:1459:C:H5'	2.19	0.43
24:CY:315:VAL:HG21	24:CY:320:TYR:CD2	2.51	0.43
51:DS:71:ARG:O	51:DS:74:ALA:HB3	2.19	0.43
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.82	0.43
48:BP:85:LEU:CD2	48:BP:88:LEU:HD23	2.49	0.43
53:BU:25:TRP:CG	53:BU:26:GLY:N	2.84	0.43
35:DA:2118:U:C5	35:DA:2148:G:O2'	2.64	0.43
5:AE:51:VAL:O	5:AE:52:PRO:C	2.56	0.43
35:DA:812:C:H5''	35:DA:1250:G:O2'	2.19	0.43
50:DR:95:THR:C	50:DR:117:VAL:HG23	2.38	0.43
58:BZ:82:ARG:CG	58:BZ:83:PRO:HD2	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:DW:34:ASN:HA	55:DW:34:ASN:HD22	1.65	0.43
12:CL:54:LYS:HB3	12:CL:70:ILE:HD12	2.01	0.43
47:DO:102:VAL:HG22	47:DO:120:GLU:O	2.19	0.43
12:AL:54:LYS:HB3	12:AL:70:ILE:HD12	2.01	0.43
24:CY:186:VAL:HB	24:CY:309:SER:O	2.18	0.43
42:DH:148:ILE:HA	42:DH:151:ILE:HG12	2.01	0.43
39:DE:24:THR:HB	39:DE:186:GLY:O	2.19	0.43
15:CO:82:ILE:HD11	15:CO:87:ILE:O	2.19	0.43
35:BA:953:A:C2'	35:BA:954:G:H5'	2.48	0.43
9:CI:20:ARG:HH11	9:CI:20:ARG:CG	2.25	0.43
24:AY:180:LEU:O	24:AY:210:VAL:HG21	2.18	0.43
35:BA:987:G:O2'	35:BA:1000:A:H1'	2.18	0.43
54:DV:77:ALA:O	54:DV:79:VAL:HG23	2.18	0.43
42:DH:137:ASP:O	42:DH:138:LYS:HB2	2.19	0.43
10:CJ:96:ILE:N	10:CJ:96:ILE:CD1	2.81	0.43
6:AF:96:PRO:HB3	18:AR:30:ASP:OD2	2.18	0.43
20:CT:73:HIS:O	20:CT:74:LYS:CB	2.66	0.43
41:BG:123:ASN:O	41:BG:126:ASP:OD2	2.36	0.43
7:CG:87:VAL:HA	7:CG:88:PRO:HD3	1.87	0.43
4:AD:73:ARG:O	4:AD:77:ASN:ND2	2.51	0.43
35:BA:885:C:H3'	35:BA:885:C:H6	1.84	0.43
1:CA:47:C:H4'	1:CA:48:C:O5'	2.19	0.43
7:AG:101:LEU:O	7:AG:104:LEU:HB2	2.17	0.43
47:BO:47:ILE:HG23	47:BO:48:PRO:CD	2.48	0.43
11:AK:80:VAL:O	11:AK:106:LYS:HB2	2.19	0.43
4:CD:177:ASP:O	4:CD:177:ASP:OD1	2.37	0.43
2:AB:144:ARG:O	2:AB:147:LYS:N	2.49	0.43
35:BA:2193:G:C4	35:BA:2194:G:C8	3.06	0.43
35:BA:958:U:C3'	35:BA:958:U:C6	3.02	0.43
4:AD:145:GLU:HG2	4:AD:184:LYS:HZ2	1.83	0.43
18:CR:35:ARG:C	18:CR:37:VAL:H	2.20	0.43
40:BF:88:VAL:CG1	40:BF:91:GLY:HA3	2.49	0.43
35:DA:2683:C:H2'	35:DA:2684:U:C6	2.53	0.43
35:BA:301:G:C6	35:BA:317:G:C6	3.06	0.43
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.19	0.43
24:CY:249:VAL:CG2	24:CY:250:ARG:N	2.82	0.43
36:DB:29:A:H2'	36:DB:30:C:C6	2.52	0.43
35:DA:204:A:OP1	35:DA:204:A:H8	2.01	0.43
38:DD:109:ASP:HB2	38:DD:197:GLY:HA2	2.00	0.43
1:AA:515:G:C2	1:AA:537:G:C2	3.07	0.43
46:BN:26:LEU:HG	46:BN:30:ILE:CD1	2.49	0.43
1:AA:1083:U:C5	1:AA:1084:G:C6	3.06	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:16:ILE:HG23	33:D8:16:ILE:O	2.19	0.43
35:DA:65:C:O2'	35:DA:66:C:H5'	2.19	0.43
38:BD:94:LEU:O	38:BD:94:LEU:HD13	2.18	0.43
56:DX:50:LYS:O	56:DX:83:VAL:HA	2.19	0.43
35:DA:436:C:H2'	35:DA:437:G:C8	2.53	0.43
35:BA:839:U:O2'	35:BA:1191:G:H1'	2.18	0.43
1:AA:123:C:H5''	1:AA:311:C:O2'	2.19	0.43
41:DG:144:ILE:HD12	41:DG:145:THR:N	2.34	0.43
26:D1:62:VAL:CG1	26:D1:63:ALA:N	2.80	0.43
35:DA:1695:G:N2	35:DA:1696:G:C8	2.87	0.43
50:BR:30:THR:HG22	50:BR:31:HIS:N	2.34	0.43
35:BA:1817:G:C6	35:BA:1818:U:C4	3.06	0.43
35:BA:383:U:H2'	35:BA:385:C:H5	1.84	0.43
35:BA:2048:G:C6	35:BA:2049:G:C5	3.07	0.43
28:B3:49:LYS:NZ	35:BA:850:C:O3'	2.52	0.43
3:CC:188:LEU:HD12	3:CC:195:VAL:HG13	2.00	0.43
45:BK:86:LYS:HB3	45:BK:86:LYS:NZ	2.34	0.43
1:CA:994:A:H2'	1:CA:994:A:N3	2.33	0.43
32:D7:29:LYS:HE3	35:DA:210:C:OP2	2.19	0.43
57:DY:81:LYS:HA	57:DY:82:PRO:HD3	1.85	0.43
35:BA:2756:U:H1'	35:BA:2757:A:H5''	2.01	0.43
59:D4:57:ILE:HG22	59:D4:59:VAL:CG2	2.49	0.43
31:D6:11:LEU:CD2	31:D6:11:LEU:N	2.81	0.43
35:BA:1578:U:H2'	35:BA:1579:A:C5'	2.48	0.43
35:DA:2758:A:C3'	35:DA:2759:G:C5'	2.97	0.43
35:DA:2310:A:C4	41:DG:75:LYS:HE2	2.53	0.43
18:AR:56:THR:O	18:AR:58:LEU:HD12	2.19	0.43
41:BG:117:PHE:HD1	41:BG:118:ARG:N	2.15	0.43
52:DT:28:VAL:O	52:DT:29:ARG:HD3	2.19	0.43
60:DI:57:ARG:C	60:DI:59:ALA:H	2.23	0.43
1:AA:302:G:N3	1:AA:556:C:H4'	2.34	0.43
57:BY:37:VAL:O	57:BY:38:ILE:HG12	2.19	0.43
35:DA:1173:G:C3'	35:DA:1174:A:C5'	2.88	0.43
42:DH:92:ILE:O	42:DH:94:TYR:N	2.52	0.43
52:DT:62:THR:HG22	52:DT:75:ILE:HA	2.01	0.43
52:DT:76:PHE:HA	52:DT:77:PRO:HD3	1.72	0.43
25:B0:51:VAL:CA	25:B0:62:LEU:HD12	2.49	0.43
58:DZ:132:ASN:O	58:DZ:134:PRO:HD3	2.19	0.43
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CG1	2.49	0.43
35:DA:2162:G:H2'	35:DA:2163:C:O4'	2.19	0.43
27:D2:7:ARG:HH22	35:DA:102:G:P	2.41	0.43
32:B7:12:ARG:HG3	35:BA:686:G:O6	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2732:G:C2'	35:DA:2733:A:H5'	2.49	0.43
51:BS:105:ALA:HB1	51:BS:107:GLU:OE1	2.18	0.43
35:DA:654(I):C:C2'	35:DA:654(J):A:OP2	2.66	0.43
9:CI:4:TYR:HD1	9:CI:4:TYR:N	2.16	0.43
1:AA:644:G:H5'	8:AH:92:ARG:NH2	2.34	0.43
22:CW:58:A:O2'	22:CW:60:U:OP2	2.36	0.43
57:BY:54:LYS:O	57:BY:55:TYR:HB2	2.18	0.43
57:BY:55:TYR:HB3	57:BY:56:PRO:CD	2.49	0.43
19:CS:5:LEU:H	19:CS:6:LYS:HZ1	1.66	0.43
1:AA:1316:G:C3'	1:AA:1317:C:H5''	2.49	0.43
1:AA:405:U:C3'	1:AA:406:G:H5'	2.41	0.43
1:AA:390:C:O5'	1:AA:390:C:H6	2.02	0.43
24:CY:279:LEU:C	24:CY:279:LEU:CD2	2.86	0.43
35:BA:1052:C:H2'	35:BA:1053:C:C6	2.54	0.43
8:AH:10:LEU:O	8:AH:13:ILE:HB	2.19	0.43
51:DS:67:ARG:O	51:DS:71:ARG:HG3	2.18	0.43
24:AY:179:LEU:C	24:AY:181:SER:H	2.22	0.43
49:DQ:51:ARG:O	49:DQ:55:VAL:HG13	2.19	0.43
14:AN:19:ARG:O	14:AN:21:TYR:HD1	2.02	0.43
48:DP:122:PRO:O	48:DP:123:LEU:HB3	2.19	0.43
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.48	0.43
1:AA:723:U:H5''	1:AA:724:G:OP2	2.19	0.43
1:AA:725:G:H2'	1:AA:726:C:H6	1.84	0.43
10:AJ:57:LYS:HD2	10:AJ:60:ARG:NH2	2.34	0.43
4:AD:30:LYS:O	4:AD:32:ALA:N	2.52	0.43
1:AA:1054:C:H42	24:AY:201:ARG:HD2	1.84	0.43
3:CC:138:VAL:HG13	3:CC:149:ALA:HB3	2.01	0.43
42:DH:41:MET:CE	42:DH:55:PRO:HD3	2.48	0.43
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.53	0.43
35:DA:1360:A:C5	35:DA:1372:U:N3	2.87	0.43
11:CK:33:THR:OG1	11:CK:37:GLY:HA2	2.19	0.43
24:AY:336:VAL:O	24:AY:338:ASP:N	2.51	0.43
1:AA:963:G:H21	10:AJ:55:LYS:NZ	2.14	0.43
48:BP:75:ILE:N	48:BP:75:ILE:HD12	2.34	0.43
10:AJ:99:LYS:HA	10:AJ:99:LYS:HD3	1.87	0.43
1:CA:376:G:OP1	16:CP:6:LEU:HD13	2.19	0.43
53:BU:83:LEU:HD11	53:BU:109:LEU:HD22	2.00	0.43
1:AA:1001:A:N3	1:AA:1001(A):G:N7	2.67	0.43
39:DE:65:GLY:HA2	39:DE:70:ALA:HB1	2.00	0.43
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.46	0.43
35:BA:2861:G:O2'	35:BA:2862:G:H5'	2.19	0.43
58:BZ:24:LEU:HD11	58:BZ:86:VAL:H	1.84	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1095:U:C5'	1:AA:1109:C:O2	2.66	0.43
26:B1:35:THR:HG21	35:BA:2080:G:P	2.59	0.43
1:AA:552:U:O2	12:AL:31:PRO:HB3	2.19	0.43
1:AA:46:G:O2'	1:AA:365:U:H1'	2.18	0.43
20:AT:8:ARG:NH1	20:AT:8:ARG:HG3	2.32	0.43
1:AA:460:G:C6	1:AA:470:C:H5''	2.54	0.43
1:CA:380:G:N2	1:CA:383:A:OP2	2.51	0.43
1:CA:189(B):C:H2'	1:CA:189(C):C:H6	1.84	0.43
1:CA:859:A:H2'	1:CA:860:A:O4'	2.18	0.43
47:BO:71:ARG:NH1	47:BO:71:ARG:HG3	2.34	0.43
1:AA:1037:C:H2'	1:AA:1038:C:N1	2.34	0.43
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.49	0.43
1:CA:309:G:H1'	1:CA:608:A:C2	2.54	0.43
1:CA:160:A:H1'	1:CA:344:A:C5	2.54	0.43
1:AA:1135:U:H4'	1:AA:1136:U:H5	1.84	0.43
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.83	0.43
52:DT:112:ARG:NH1	52:DT:112:ARG:HB3	2.33	0.43
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.19	0.43
39:BE:66:HIS:O	39:BE:66:HIS:HD2	2.02	0.43
35:DA:709:U:H3	35:DA:722:A:H61	1.67	0.43
52:BT:53:ARG:NH1	52:BT:53:ARG:HG2	2.34	0.43
35:DA:1045:A:C2	35:DA:1047:G:N2	2.87	0.43
4:CD:144:ASP:O	4:CD:184:LYS:HA	2.19	0.43
6:AF:4:TYR:HD1	6:AF:92:LYS:HA	1.84	0.43
3:AC:126:ARG:HB3	3:AC:128:PHE:CE1	2.54	0.43
2:CB:15:VAL:HG23	2:CB:209:ARG:HB3	2.00	0.43
35:DA:919:G:H4'	36:DB:81:G:C4'	2.48	0.43
46:BN:119:ARG:CG	46:BN:119:ARG:NH1	2.82	0.43
22:AV:31:A:H2'	22:AV:32:U:H6	1.83	0.43
46:BN:26:LEU:CD1	46:BN:30:ILE:HD11	2.49	0.43
35:BA:2823:A:OP1	39:BE:113:PHE:HB2	2.19	0.43
4:AD:98:GLU:C	4:AD:100:ARG:H	2.22	0.43
20:CT:36:LEU:CD1	20:CT:55:ILE:HG23	2.49	0.43
35:BA:978:G:C2'	35:BA:979:G:H5'	2.49	0.43
38:DD:3:VAL:HG12	38:DD:4:LYS:N	2.34	0.43
35:BA:1638:C:H4'	35:BA:2710:C:O2	2.18	0.43
1:CA:642:A:N3	8:CH:113:SER:OG	2.49	0.43
1:AA:690:G:H2'	1:AA:691:G:C8	2.53	0.43
50:DR:60:LEU:O	50:DR:60:LEU:HD23	2.19	0.43
58:DZ:20:ARG:HG3	58:DZ:20:ARG:HH11	1.82	0.43
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.81	0.43
26:B1:88:LYS:HE3	26:B1:92:LYS:HB2	1.99	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:161:THR:C	41:DG:163:ALA:N	2.67	0.43
35:BA:1590:U:H2'	35:BA:1591:G:C5'	2.10	0.43
35:BA:1591:G:O2'	35:BA:1592:C:H5'	2.19	0.43
13:AM:73:GLU:O	13:AM:76:ALA:HB3	2.19	0.43
35:DA:480:A:H2'	35:DA:481:G:OP1	2.19	0.43
4:AD:36:ARG:HB3	4:AD:38:TYR:CZ	2.54	0.43
58:BZ:145:GLU:OE1	58:BZ:146:ILE:HG23	2.19	0.43
41:BG:97:ASP:HB3	41:BG:98:ARG:NH2	2.20	0.43
41:BG:18:GLU:O	41:BG:22:ARG:HG3	2.19	0.43
52:DT:81:PRO:C	52:DT:82:LEU:HD12	2.39	0.43
52:DT:30:VAL:CG1	52:DT:84:GLN:HG3	2.27	0.43
35:DA:1156:A:OP1	53:DU:55:ARG:NH1	2.52	0.43
54:DV:55:ALA:HA	54:DV:101:GLY:OXT	2.19	0.43
35:DA:1495:A:H2'	35:DA:1496:A:N3	2.34	0.43
25:D0:49:LYS:H	25:D0:80:HIS:HD1	1.65	0.43
37:BC:72:VAL:CG1	37:BC:74:VAL:HG23	2.49	0.43
37:BC:72:VAL:HG21	37:BC:161:ILE:HA	2.00	0.43
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.18	0.43
35:BA:84:A:C5'	57:BY:9:LYS:HE3	2.49	0.43
24:CY:50:GLN:OE1	24:CY:50:GLN:O	2.37	0.43
54:BV:35:LEU:HB2	54:BV:57:VAL:HG13	2.00	0.43
51:DS:15:ARG:HD3	51:DS:15:ARG:HA	1.79	0.43
36:BB:95:C:C4	36:BB:96:U:C5	3.07	0.43
9:AI:91:ASP:C	9:AI:92:TYR:HD1	2.22	0.43
35:DA:2821:A:OP2	50:DR:2:ARG:NH1	2.52	0.43
19:CS:16:LEU:C	19:CS:18:LYS:N	2.70	0.43
2:CB:42:ILE:HG23	2:CB:42:ILE:O	2.19	0.43
2:AB:204:ASN:HD21	2:AB:207:ALA:N	2.17	0.43
33:B8:57:ARG:C	33:B8:59:LYS:N	2.71	0.43
56:BX:39:ILE:O	56:BX:40:LYS:C	2.57	0.43
9:AI:2:GLU:O	9:AI:2:GLU:HG2	2.19	0.43
11:AK:44:SER:H	11:AK:47:VAL:CG2	2.32	0.43
47:BO:104:ARG:CZ	52:BT:33:LYS:HD2	2.49	0.43
3:AC:106:VAL:HG12	3:AC:108:ASN:C	2.39	0.43
50:BR:12:ARG:NE	50:BR:16:HIS:CE1	2.84	0.43
1:AA:370:C:N4	1:AA:391:G:N1	2.54	0.43
46:BN:19:GLU:O	46:BN:59:LYS:HB3	2.19	0.43
5:CE:71:LEU:CD2	5:CE:115:VAL:HG22	2.48	0.43
35:DA:1053:C:O2'	35:DA:1054:A:H5'	2.18	0.43
48:DP:70:GLN:O	48:DP:71:VAL:C	2.57	0.43
33:B8:46:ARG:HG2	33:B8:46:ARG:HH11	1.84	0.43
35:DA:1439:A:H2'	35:DA:1440:G:O4'	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:51:PHE:H	39:BE:74:PRO:HB2	1.84	0.43
2:CB:109:SER:O	2:CB:111:ARG:N	2.52	0.43
10:AJ:62:HIS:H	10:AJ:62:HIS:HD2	1.66	0.43
45:BK:55:VAL:HG22	45:BK:57:ILE:CD1	2.49	0.43
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.80	0.43
1:AA:1053:G:N7	1:AA:1199:U:H3'	2.33	0.43
24:AY:200:ARG:HH11	24:AY:202:HIS:CE1	2.36	0.43
45:DK:67:PHE:CD1	45:DK:67:PHE:N	2.85	0.43
35:BA:2136:C:H41	35:BA:2156:G:H21	1.66	0.43
7:AG:152:ALA:O	7:AG:155:ARG:NH1	2.52	0.43
47:BO:115:VAL:HG13	47:BO:121:VAL:HG21	2.01	0.43
2:CB:101:MET:O	2:CB:102:LEU:HD12	2.18	0.43
7:CG:81:GLY:C	7:CG:83:ALA:H	2.22	0.43
35:BA:2468:G:P	49:BQ:119:ARG:HH22	2.41	0.43
15:AO:82:ILE:CG2	15:AO:83:GLU:N	2.81	0.43
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.36	0.43
7:CG:145:ALA:C	7:CG:147:ALA:N	2.72	0.43
26:B1:71:TYR:N	26:B1:71:TYR:HD1	2.17	0.43
1:AA:321:A:C2	1:AA:333:G:C2	3.07	0.43
39:BE:63:LEU:O	39:BE:64:LYS:C	2.56	0.43
1:CA:474:G:H2'	1:CA:475:G:C8	2.54	0.43
35:BA:1097:U:O2'	35:BA:1098:A:H5'	2.19	0.43
24:CY:180:LEU:C	24:CY:182:PRO:HD2	2.39	0.43
7:AG:148:ASN:ND2	7:AG:148:ASN:N	2.67	0.43
9:AI:121:ARG:NH1	9:AI:121:ARG:HG2	2.28	0.43
24:CY:145:GLU:HG3	24:CY:151:VAL:CG2	2.48	0.43
35:BA:1865:G:H5'	35:BA:1866:C:P	2.59	0.43
12:AL:45:PRO:HB3	12:AL:53:ARG:NH1	2.34	0.43
58:BZ:45:ASP:O	58:BZ:49:ARG:N	2.50	0.43
56:DX:57:LEU:CD1	56:DX:57:LEU:N	2.81	0.43
56:BX:57:LEU:N	56:BX:57:LEU:CD1	2.82	0.43
1:AA:914:A:O2'	1:AA:915:A:H5'	2.19	0.43
41:BG:101:ILE:O	41:BG:101:ILE:HG12	2.19	0.43
35:BA:448:U:C4	35:BA:583:G:H1'	2.54	0.43
3:AC:186:PHE:CZ	3:AC:188:LEU:HD22	2.54	0.43
55:BW:68:ARG:NH1	55:BW:68:ARG:HG3	2.34	0.43
44:DJ:74:UNK:C	44:DJ:76:UNK:N	2.82	0.43
50:DR:60:LEU:C	50:DR:60:LEU:HD23	2.38	0.43
1:AA:1091:U:H2'	1:AA:1093:A:OP2	2.19	0.43
44:BJ:21:UNK:HA	44:BJ:88:UNK:HA	2.01	0.43
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.53	0.43
24:CY:294:GLU:C	24:CY:296:LYS:H	2.22	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1179:A:H2'	1:CA:1180:A:O4'	2.19	0.43
35:BA:52:A:O2'	35:BA:53:A:H5'	2.19	0.43
1:CA:1494:G:H2'	1:CA:1495:U:H6	1.83	0.43
35:BA:214:G:H1'	35:BA:216:A:O2'	2.19	0.43
35:BA:1773:A:H2'	35:BA:1774:C:O4'	2.19	0.43
1:AA:145:G:H2'	1:AA:146:G:O4'	2.19	0.43
35:DA:1832:C:H2'	35:DA:1833:U:O5'	2.19	0.43
25:B0:71:ASP:C	25:B0:73:GLY:H	2.22	0.43
41:DG:10:LYS:HE2	41:DG:176:LEU:O	2.19	0.42
35:BA:2758:A:C2'	35:BA:2759:G:C5'	2.80	0.42
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.47	0.42
35:BA:2419:U:H2'	35:BA:2420:C:C6	2.54	0.42
31:D6:11:LEU:CD2	31:D6:26:ASN:N	2.80	0.42
31:D6:52:VAL:CG1	31:D6:53:LYS:N	2.82	0.42
30:D5:40:LYS:HG2	30:D5:46:CYS:HB2	2.00	0.42
33:B8:53:PRO:O	33:B8:54:GLU:C	2.57	0.42
35:DA:2308:G:H2'	35:DA:2309:A:O5'	2.19	0.42
41:BG:67:LYS:HA	41:BG:68:PRO:HD3	1.81	0.42
27:B2:67:LYS:C	27:B2:69:ARG:N	2.71	0.42
4:CD:11:LEU:C	4:CD:13:ARG:N	2.72	0.42
37:BC:74:VAL:HA	37:BC:119:VAL:O	2.18	0.42
37:BC:83:ILE:O	37:BC:83:ILE:HG22	2.19	0.42
48:BP:39:LYS:O	48:BP:40:SER:HB2	2.19	0.42
9:CI:50:LEU:C	9:CI:52:ALA:H	2.22	0.42
5:CE:126:ARG:CG	5:CE:126:ARG:HH11	2.21	0.42
22:AW:70:G:H2'	22:AW:71:G:C5'	2.41	0.42
38:DD:244:ARG:NH1	38:DD:244:ARG:HG2	2.34	0.42
53:BU:62:ILE:HD12	53:BU:76:TYR:OH	2.19	0.42
52:DT:16:ARG:HD3	52:DT:17:THR:N	2.34	0.42
51:DS:14:VAL:CG1	51:DS:15:ARG:N	2.62	0.42
35:DA:1024:G:H21	35:DA:1144:G:C4'	2.32	0.42
9:AI:85:LEU:HD13	9:AI:92:TYR:HD2	1.84	0.42
60:DI:33:ARG:O	60:DI:35:LEU:HG	2.18	0.42
2:CB:204:ASN:ND2	2:CB:207:ALA:CB	2.80	0.42
20:CT:50:GLU:CB	20:CT:100:ILE:HG21	2.49	0.42
38:BD:35:LYS:HZ1	38:BD:103:ARG:HA	1.83	0.42
35:DA:1568:G:H4'	38:DD:59:LYS:HB3	2.00	0.42
20:AT:50:GLU:CB	20:AT:100:ILE:HG21	2.49	0.42
35:DA:1208:C:O2'	35:DA:1209:G:H5'	2.19	0.42
38:DD:133:LEU:HD21	38:DD:191:ALA:HB2	2.00	0.42
35:DA:2892:A:H3'	35:DA:2893:G:H5''	2.00	0.42
35:DA:2892:A:N6	35:DA:2893:G:N3	2.67	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:B9:15:LYS:HZ3	35:BA:2753:A:H1'	1.80	0.42
1:CA:1457:G:H8	1:CA:1457:G:O5'	2.02	0.42
1:CA:738:C:OP2	6:CF:92:LYS:HE2	2.19	0.42
46:DN:19:GLU:O	46:DN:59:LYS:HB3	2.19	0.42
20:CT:92:LEU:C	20:CT:94:ALA:H	2.21	0.42
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.82	0.42
60:DI:111:PRO:C	60:DI:113:ARG:H	2.22	0.42
35:DA:2291:U:H5''	35:DA:2380:C:O2'	2.19	0.42
2:CB:164:VAL:O	2:CB:186:ALA:CB	2.65	0.42
24:AY:112:ALA:C	24:AY:114:LYS:H	2.22	0.42
35:BA:16:G:H2'	35:BA:17:G:H8	1.84	0.42
39:BE:55:ASN:HD22	39:BE:55:ASN:HA	1.57	0.42
35:DA:2138:C:O2	35:DA:2138:C:H2'	2.19	0.42
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	2.00	0.42
1:CA:16:A:HO2'	1:CA:17:U:H5'	1.84	0.42
1:AA:1382:C:H4'	7:AG:79:ARG:HH12	1.84	0.42
1:AA:624:C:H4'	16:AP:10:GLY:O	2.19	0.42
17:CQ:70:ARG:O	17:CQ:71:PHE:CG	2.72	0.42
36:DB:7:G:H3'	36:DB:8:U:C5'	2.49	0.42
11:CK:124:LYS:HB3	11:CK:125:PHE:HD1	1.84	0.42
8:CH:97:VAL:HG13	8:CH:98:LYS:HG3	2.01	0.42
44:DJ:105:UNK:C	44:DJ:107:UNK:N	2.76	0.42
35:DA:717:G:H2'	35:DA:718:A:O4'	2.18	0.42
35:DA:2745:C:H2'	35:DA:2746:U:H6	1.84	0.42
35:DA:1472:A:H61	35:DA:1519:G:C2'	2.31	0.42
56:BX:43:VAL:O	56:BX:47:PHE:HD1	2.02	0.42
1:CA:1267:C:O2	1:CA:1327:C:H4'	2.19	0.42
18:AR:79:LEU:HA	18:AR:80:PRO:HD3	1.77	0.42
35:DA:247:G:H4'	35:DA:386:G:C6	2.53	0.42
3:CC:24:ALA:HB1	3:CC:29:TYR:HA	2.00	0.42
35:BA:626:U:N3	48:BP:105:LEU:HB3	2.33	0.42
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.84	0.42
35:BA:1999:C:O2'	35:BA:2000:G:H5'	2.19	0.42
35:BA:630:G:N2	35:BA:633:A:OP2	2.45	0.42
1:AA:308:C:H2'	1:AA:309:G:C8	2.47	0.42
35:DA:2195:C:H2'	35:DA:2196:C:H6	1.84	0.42
35:DA:460:A:C2	35:DA:470:A:C4	3.07	0.42
40:DF:170:LEU:HA	40:DF:170:LEU:HD12	1.86	0.42
47:DO:25:LEU:HD11	47:DO:40:VAL:HG23	2.00	0.42
35:BA:955:C:OP1	49:BQ:87:LYS:HE2	2.19	0.42
35:BA:654:A:H1'	35:BA:654(A):G:C1'	2.49	0.42
3:AC:35:GLU:OE2	3:AC:59:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AV:24:G:C6	22:AV:25:C:C4	3.06	0.42
35:DA:1427:A:O2'	35:DA:1428:C:OP2	2.36	0.42
58:BZ:42:VAL:CG2	58:BZ:46:LYS:HE3	2.48	0.42
35:DA:2408:U:H2'	35:DA:2409:G:C8	2.54	0.42
35:DA:753:C:O5'	35:DA:753:C:H6	2.01	0.42
50:BR:95:THR:C	50:BR:117:VAL:HG23	2.39	0.42
35:DA:585:G:H2'	35:DA:1251:C:H42	1.83	0.42
1:AA:484:G:O2'	1:AA:485:G:P	2.77	0.42
24:AY:13:LEU:C	24:AY:14:ARG:HG3	2.38	0.42
1:CA:155:C:H2'	1:CA:156:G:H8	1.84	0.42
39:BE:198:VAL:HG12	39:BE:199:ARG:N	2.34	0.42
40:BF:54:ARG:HB2	40:BF:79:GLY:O	2.19	0.42
12:AL:86:ARG:HB3	12:AL:101:VAL:CG2	2.49	0.42
1:CA:539:A:H2'	1:CA:540:G:C8	2.54	0.42
3:AC:118:GLN:O	3:AC:121:ALA:HB3	2.19	0.42
1:AA:994:A:H2'	1:AA:994:A:N3	2.34	0.42
49:BQ:26:TYR:HD1	49:BQ:26:TYR:O	2.01	0.42
11:CK:112:THR:HG23	11:CK:113:PRO:HD2	2.01	0.42
35:BA:237:C:H2'	35:BA:238:C:H6	1.84	0.42
35:DA:947:G:N3	35:DA:984:A:H2	2.17	0.42
1:CA:311:C:O2'	1:CA:312:C:H5'	2.19	0.42
35:DA:2603:G:O2'	35:DA:2604:U:H5'	2.19	0.42
1:CA:145:G:H2'	1:CA:146:G:O4'	2.19	0.42
57:DY:81:LYS:HD3	57:DY:97:ARG:CB	2.20	0.42
35:BA:2107:C:H42	35:BA:2182:G:H1	1.66	0.42
35:BA:1495:A:H2'	35:BA:1495:A:N3	2.34	0.42
28:D3:3:ARG:O	28:D3:4:LEU:O	2.37	0.42
33:D8:63:PRO:C	33:D8:64:TYR:O	2.56	0.42
4:AD:14:ARG:HA	4:AD:39:PRO:CG	2.46	0.42
4:AD:52:SER:C	4:AD:54:TYR:N	2.70	0.42
35:BA:2305:A:C2	35:BA:2306:C:H1'	2.54	0.42
41:BG:133:LEU:CD1	41:BG:135:LEU:HD11	2.49	0.42
41:BG:130:ASN:OD1	41:BG:159:VAL:O	2.36	0.42
41:BG:56:ALA:O	41:BG:60:LEU:HB2	2.19	0.42
52:DT:28:VAL:HB	52:DT:88:ILE:HG13	2.01	0.42
48:BP:128:HIS:O	48:BP:147:LEU:HD22	2.19	0.42
5:AE:126:ARG:NH1	5:AE:126:ARG:CG	2.81	0.42
57:BY:2:ARG:N	57:BY:5:MET:CE	2.81	0.42
35:BA:1841:U:C2'	38:BD:244:ARG:HH22	2.31	0.42
31:D6:20:ASN:CG	31:D6:21:TYR:H	2.22	0.42
57:BY:8:LYS:N	57:BY:8:LYS:CD	2.75	0.42
35:DA:1528(A):A:H3'	35:DA:1529:G:H5''	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BV:6:LYS:HE2	54:BV:37:VAL:HG12	2.00	0.42
47:DO:104:ARG:NH1	47:DO:104:ARG:CB	2.82	0.42
51:BS:26:LEU:HD22	51:BS:26:LEU:O	2.20	0.42
46:BN:128:HIS:CE1	46:BN:134:ARG:HD3	2.54	0.42
48:DP:57:THR:O	48:DP:59:LEU:N	2.47	0.42
13:CM:87:TYR:HE1	19:CS:81:ARG:NH2	2.17	0.42
1:CA:60:A:O5'	1:CA:60:A:H8	2.02	0.42
2:CB:50:GLU:O	2:CB:54:THR:N	2.47	0.42
2:AB:55:PHE:HA	2:AB:58:ILE:CG1	2.49	0.42
42:DH:79:VAL:C	42:DH:81:GLU:H	2.20	0.42
52:DT:3:ARG:O	52:DT:5:ALA:N	2.52	0.42
42:DH:97:ARG:C	42:DH:125:VAL:HG21	2.39	0.42
35:BA:2068:U:N3	35:BA:2430:A:C2	2.65	0.42
19:CS:61:TYR:CD2	19:CS:62:ILE:N	2.87	0.42
9:CI:4:TYR:CE2	9:CI:59:PHE:HE2	2.36	0.42
9:CI:59:PHE:O	9:CI:61:ALA:N	2.52	0.42
39:BE:3:GLY:O	39:BE:4:ILE:HB	2.19	0.42
35:BA:27:G:N2	35:BA:512:G:O2'	2.53	0.42
1:AA:400:C:O2'	1:AA:401:C:H5'	2.19	0.42
35:BA:330:A:O2'	35:BA:331:A:C8	2.64	0.42
35:DA:2789:C:H4'	35:DA:2789:C:OP1	2.20	0.42
53:BU:64:ARG:HH21	53:BU:64:ARG:HG2	1.83	0.42
35:DA:26:G:C6	35:DA:27:G:N1	2.87	0.42
46:DN:65:LYS:O	46:DN:66:LYS:C	2.57	0.42
8:CH:10:LEU:O	8:CH:13:ILE:HB	2.18	0.42
33:B8:19:SER:HB2	35:BA:651:G:OP1	2.19	0.42
35:BA:638:G:C5	35:BA:651:G:C2	3.07	0.42
35:DA:389:G:H22	48:DP:72:PRO:HD3	1.83	0.42
1:CA:1073:U:OP2	5:CE:57:LYS:HE3	2.19	0.42
48:BP:125:VAL:O	48:BP:125:VAL:HG13	2.19	0.42
35:BA:234:C:H2'	35:BA:235:U:H6	1.84	0.42
20:AT:27:LYS:O	20:AT:27:LYS:HE2	2.19	0.42
1:CA:1415:G:O2'	1:CA:1416:G:H5'	2.18	0.42
1:AA:431:A:O2'	1:AA:432:A:H5'	2.19	0.42
1:AA:1055:A:N7	1:AA:1200:C:N4	2.67	0.42
35:BA:2277:G:C2'	35:BA:2278:A:H5'	2.48	0.42
2:AB:115:LEU:HG	2:AB:153:ARG:HH21	1.83	0.42
35:BA:1639:U:H4'	35:BA:2699:C:H4'	2.01	0.42
1:CA:625:G:C4	1:CA:626:U:C5	3.07	0.42
13:CM:108:ARG:NH1	13:CM:111:LYS:HB2	2.33	0.42
17:CQ:5:VAL:HG13	17:CQ:59:ILE:O	2.19	0.42
40:BF:135:LYS:HB3	40:BF:138:GLU:OE2	2.18	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:272:G:O6	35:DA:421:U:H2'	2.19	0.42
39:DE:116:VAL:CG2	39:DE:122:PHE:CD2	2.99	0.42
15:AO:60:VAL:HG11	35:BA:715:G:O4'	2.19	0.42
29:B4:41:ILE:HD13	29:B4:47:VAL:HG13	2.01	0.42
1:AA:1452:C:H4'	1:AA:1456:G:C2	2.53	0.42
42:BH:138:LYS:C	42:BH:140:LYS:N	2.72	0.42
24:CY:11:GLU:O	24:CY:12:GLY:O	2.36	0.42
1:AA:21:G:H2'	1:AA:22:G:C8	2.54	0.42
35:BA:1300:U:O2	35:BA:1300:U:O4'	2.37	0.42
49:BQ:18:LYS:O	49:BQ:19:GLY:O	2.37	0.42
1:CA:1498:U:H4'	1:CA:1519:A:H2	1.85	0.42
26:B1:62:VAL:HG22	26:B1:63:ALA:N	2.32	0.42
18:CR:76:LEU:N	18:CR:76:LEU:HD22	2.35	0.42
1:CA:552:U:O2	12:CL:31:PRO:HB3	2.18	0.42
35:BA:887:A:N3	35:BA:889:C:OP2	2.52	0.42
25:B0:36:ILE:HD11	35:BA:2355:C:H4'	2.01	0.42
4:CD:60:GLU:OE1	4:CD:198:VAL:HA	2.19	0.42
17:CQ:76:LEU:CG	17:CQ:77:VAL:N	2.81	0.42
35:DA:2178:C:H2'	35:DA:2179:C:C6	2.54	0.42
22:AV:28:G:N2	22:AV:43:C:H1'	2.34	0.42
35:BA:2605:U:H2'	35:BA:2606:C:H6	1.84	0.42
35:BA:955:C:H5'	35:BA:956:G:OP2	2.19	0.42
35:DA:1532:C:O2	35:DA:1532:C:O4'	2.36	0.42
13:CM:25:ILE:N	13:CM:25:ILE:HD12	2.35	0.42
35:BA:709:U:H3	35:BA:722:A:H61	1.66	0.42
18:CR:47:THR:O	18:CR:82:THR:HA	2.19	0.42
35:DA:654(U):A:H2'	35:DA:654(V):A:H8	1.84	0.42
12:AL:74:GLY:O	12:AL:102:ARG:NH1	2.47	0.42
35:DA:2235:G:H2'	35:DA:2236:C:C6	2.54	0.42
11:CK:41:THR:HG22	11:CK:42:TRP:N	2.34	0.42
1:CA:659:U:O2'	1:CA:660:G:H5'	2.18	0.42
1:AA:477:A:H2'	1:AA:479:C:H6	1.82	0.42
1:CA:1186:G:C2	1:CA:1187:G:H1'	2.54	0.42
55:DW:68:ARG:O	55:DW:110:LYS:N	2.53	0.42
35:BA:609:A:H2'	35:BA:610:G:O4'	2.19	0.42
35:BA:2619:C:H5''	39:BE:152:LYS:HA	2.00	0.42
11:AK:69:ALA:O	11:AK:73:MET:HG2	2.19	0.42
1:AA:801:U:H2'	1:AA:802:A:C8	2.54	0.42
35:BA:304:G:H2'	35:BA:305:U:C6	2.54	0.42
58:BZ:22:GLY:C	58:BZ:23:LYS:HE2	2.40	0.42
35:BA:350:U:H2'	35:BA:351:G:O4'	2.19	0.42
53:DU:113:ALA:C	53:DU:115:ALA:H	2.22	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:113:ALA:C	53:BU:115:ALA:H	2.22	0.42
13:AM:14:ARG:HD2	13:AM:42:ALA:HA	2.01	0.42
35:DA:36:G:N3	35:DA:450:G:O2'	2.51	0.42
35:BA:1034:G:C5	35:BA:1035:U:C5	3.07	0.42
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.18	0.42
35:BA:504:U:O2	35:BA:504:U:O4'	2.36	0.42
35:DA:1839:G:H5'	35:DA:1839:G:H8	1.84	0.42
1:CA:1023:G:H2'	1:CA:1023:G:N3	2.34	0.42
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.19	0.42
35:BA:370:G:H3'	35:BA:423:A:C6	2.54	0.42
35:BA:2738:A:C2	35:BA:2739:U:H1'	2.54	0.42
35:DA:1462:C:H4'	35:DA:2703:C:O4'	2.19	0.42
51:DS:66:ALA:HA	51:DS:69:VAL:HG12	2.00	0.42
41:DG:16:ARG:CB	41:DG:16:ARG:HH11	2.30	0.42
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.19	0.42
58:BZ:125:LEU:HD12	58:BZ:126:VAL:H	1.84	0.42
35:DA:2348:U:C3'	35:DA:2349:G:H5''	2.46	0.42
48:BP:23:PRO:HD2	48:BP:33:ARG:HE	1.84	0.42
35:DA:814:C:O2'	35:DA:815:C:H5'	2.19	0.42
40:BF:10:PRO:C	40:BF:128:ALA:HB2	2.39	0.42
57:BY:45:VAL:HA	57:BY:62:GLU:CB	2.49	0.42
33:D8:4:MET:HE1	35:DA:593:G:C1'	2.49	0.42
41:DG:133:LEU:HD21	41:DG:157:ILE:HG12	2.00	0.42
41:DG:39:ILE:HG13	41:DG:92:VAL:HG12	2.00	0.42
4:CD:30:LYS:CA	4:CD:35:ARG:HD2	2.49	0.42
53:DU:70:ARG:HG3	53:DU:70:ARG:HH11	1.84	0.42
53:DU:95:LEU:HD11	54:DV:11:GLN:HG3	1.98	0.42
25:D0:48:GLY:HA3	25:D0:80:HIS:CG	2.54	0.42
42:BH:89:ILE:HD11	42:BH:129:THR:CB	2.50	0.42
54:BV:39:LEU:HA	54:BV:47:VAL:CG2	2.49	0.42
50:BR:10:LEU:HD22	50:BR:17:ARG:HG2	2.01	0.42
1:CA:1147:C:O2	9:CI:16:ARG:CZ	2.67	0.42
35:DA:1902:C:H1'	38:DD:244:ARG:HD3	2.00	0.42
54:DV:14:VAL:HB	54:DV:96:ILE:HG13	2.02	0.42
24:AY:222:LEU:HD11	24:AY:253:HIS:HE2	1.84	0.42
53:BU:92:ARG:HH11	54:BV:11:GLN:H	1.67	0.42
57:DY:35:TYR:CE2	57:DY:69:ALA:HB3	2.55	0.42
9:AI:53:VAL:HG23	9:AI:55:ALA:CB	2.49	0.42
35:DA:2125:G:N2	35:DA:2172:U:OP1	2.46	0.42
37:DC:58:VAL:HG21	37:DC:166:ASP:H	1.84	0.42
32:B7:10:ARG:O	32:B7:14:LYS:HB2	2.19	0.42
19:CS:15:LEU:O	19:CS:18:LYS:HB3	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:331:G:OP1	1:CA:332:G:H8	2.03	0.42
1:AA:60:A:H8	1:AA:60:A:O5'	2.02	0.42
36:DB:94:C:H2'	36:DB:95:C:H6	1.84	0.42
35:BA:665:C:O2'	35:BA:666:G:H5'	2.20	0.42
40:BF:185:ASP:OD1	40:BF:188:ARG:NH1	2.52	0.42
20:CT:98:PRO:O	20:CT:99:LEU:O	2.38	0.42
35:BA:786:C:O2'	35:BA:787:U:H5'	2.19	0.42
39:DE:1:MET:O	39:DE:2:LYS:C	2.58	0.42
22:CW:64:A:H2'	22:CW:65:G:C8	2.54	0.42
57:DY:54:LYS:O	57:DY:55:TYR:HB2	2.18	0.42
1:CA:1313:U:O2'	1:CA:1314:C:H5'	2.18	0.42
1:CA:1316:G:C3'	1:CA:1317:C:H5''	2.49	0.42
35:DA:2810:A:C2'	39:DE:61:ARG:CZ	2.97	0.42
5:CE:146:ALA:O	5:CE:148:VAL:N	2.52	0.42
43:BI:15:VAL:HG12	43:BI:16:GLY:H	1.80	0.42
24:AY:113:GLU:HA	24:AY:175:ASN:HA	2.02	0.42
48:BP:87:ASP:O	48:BP:89:ALA:N	2.51	0.42
50:BR:44:LEU:HD12	50:BR:48:VAL:HG23	2.02	0.42
1:AA:430:A:C2'	1:AA:431:A:H5'	2.49	0.42
49:BQ:1:MET:O	49:BQ:2:LEU:HB3	2.18	0.42
35:DA:1453:U:H5'	50:DR:63:ARG:NE	2.34	0.42
22:CV:68:C:C2'	22:CV:69:G:H5'	2.50	0.42
35:BA:2138:C:O2	35:BA:2138:C:H2'	2.19	0.42
38:DD:235:GLY:C	38:DD:237:GLU:N	2.65	0.42
35:BA:1408:C:H2'	35:BA:1409:C:C6	2.54	0.42
35:BA:2023:G:H4'	35:BA:2617:C:O3'	2.20	0.42
35:BA:320:A:H4'	35:BA:322:A:N7	2.34	0.42
16:CP:20:VAL:HG23	16:CP:34:GLU:C	2.40	0.42
13:CM:15:VAL:CG1	13:CM:45:VAL:HG22	2.46	0.42
13:CM:45:VAL:HG12	13:CM:45:VAL:O	2.19	0.42
35:BA:1453:U:OP1	50:BR:77:ARG:NH1	2.52	0.42
24:AY:135:MET:CE	24:AY:191:ARG:HH12	2.31	0.42
1:CA:1152:A:H3'	10:CJ:13:HIS:ND1	2.34	0.42
42:BH:120:GLY:HA3	42:BH:140:LYS:NZ	2.34	0.42
1:AA:472:A:C2'	1:AA:473:G:H5'	2.49	0.42
36:BB:91:C:OP1	49:BQ:16:ARG:NH1	2.51	0.42
24:CY:349:LEU:C	24:CY:351:TRP:N	2.72	0.42
35:DA:1571:A:H2'	35:DA:1572:A:C8	2.54	0.42
22:CW:70:G:H2'	22:CW:71:G:H5''	2.02	0.42
37:BC:64:LEU:HA	37:BC:65:PRO:HD2	1.91	0.42
25:B0:20:ARG:NH1	35:BA:2271:G:H4'	2.34	0.42
35:BA:635:C:O2'	35:BA:639:U:OP1	2.37	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:885:C:C2	35:DA:886:C:N4	2.87	0.42
40:DF:129:PHE:CE1	40:DF:142:TRP:CH2	3.07	0.42
4:CD:177:ASP:OD1	4:CD:180:GLY:N	2.52	0.42
60:DI:114:LEU:O	60:DI:115:ALA:C	2.57	0.42
1:CA:308:C:H2'	1:CA:309:G:C8	2.49	0.42
1:AA:930:C:C2'	1:AA:931:C:H5'	2.50	0.42
35:DA:1865:G:H5'	35:DA:1866:C:P	2.59	0.42
55:BW:1:MET:HE3	55:BW:2:GLU:H	1.84	0.42
43:BI:31:LEU:CD2	43:BI:38:LEU:HD23	2.49	0.42
42:DH:123:PHE:O	42:DH:124:GLU:HG2	2.19	0.42
1:CA:977:A:C2'	1:CA:978:A:H5'	2.48	0.42
22:CV:75:C:OP1	35:DA:2602:A:OP1	2.36	0.42
1:AA:600:C:O2'	1:AA:601:C:H5'	2.18	0.42
55:BW:86:LEU:HD12	55:BW:87:PRO:N	2.34	0.42
47:BO:40:VAL:CG1	47:BO:41:ALA:N	2.82	0.42
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.83	0.42
49:BQ:21:THR:HG21	49:BQ:101:ARG:CD	2.49	0.42
35:DA:1973:G:H2'	35:DA:1974:C:H6	1.85	0.42
58:DZ:11:GLU:N	58:DZ:11:GLU:CD	2.72	0.42
9:AI:23:ASN:ND2	9:AI:23:ASN:N	2.67	0.42
1:CA:947:G:C6	1:CA:948:C:C4	3.07	0.42
35:BA:2776:A:H4'	35:BA:2777:G:H5''	2.01	0.42
35:DA:272(J):C:N4	35:DA:363(A):A:N6	2.67	0.42
60:DI:14:ASP:O	60:DI:15:VAL:C	2.57	0.42
39:BE:188:VAL:O	39:BE:188:VAL:HG13	2.19	0.42
56:BX:83:VAL:O	56:BX:84:ALA:C	2.57	0.42
35:DA:306:U:C2'	35:DA:307:G:H5'	2.50	0.42
35:BA:817:C:O2'	35:BA:839:U:H5''	2.18	0.42
35:DA:1948:G:C2'	35:DA:1949:G:H5'	2.49	0.42
14:AN:7:ILE:HA	14:AN:10:ALA:CB	2.49	0.42
35:DA:350:U:H2'	35:DA:351:G:O4'	2.20	0.42
35:BA:1013:C:O2'	35:BA:1014:U:H5'	2.19	0.42
1:AA:607:A:C2	16:AP:31:LYS:HG3	2.54	0.42
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.19	0.42
3:AC:54:ARG:HG2	3:AC:55:VAL:N	2.34	0.42
38:DD:138:VAL:O	38:DD:138:VAL:HG13	2.19	0.42
35:BA:1590:U:C3'	35:BA:1591:G:H5''	2.45	0.42
31:D6:25:LYS:HE2	31:D6:27:LYS:HZ1	1.84	0.42
52:BT:31:SER:CB	52:BT:43:GLN:O	2.68	0.42
30:D5:4:HIS:CB	30:D5:5:PRO:CD	2.88	0.42
40:DF:8:GLN:OE1	40:DF:8:GLN:HA	2.20	0.42
1:CA:542:G:C4	1:CA:543:C:C5	3.08	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:41:ARG:HD3	25:D0:44:ARG:CD	2.49	0.42
1:AA:9:G:C5'	5:AE:122:GLU:OE2	2.67	0.42
57:BY:27:VAL:CB	57:BY:29:GLU:OE1	2.67	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	2.01	0.42
41:DG:117:PHE:HZ	41:DG:179:PRO:HB2	1.84	0.42
52:BT:94:ALA:HB1	52:BT:99:LEU:HD23	2.02	0.42
52:DT:78:LEU:C	52:DT:79:HIS:ND1	2.73	0.42
25:B0:49:LYS:O	25:B0:50:ASN:HB2	2.20	0.42
35:BA:2162:G:H2'	35:BA:2163:C:O4'	2.20	0.42
46:BN:133:GLN:O	46:BN:134:ARG:CB	2.67	0.42
32:D7:47:ARG:O	32:D7:48:LYS:HD3	2.19	0.42
36:DB:85:G:C2'	36:DB:86:G:H5'	2.50	0.42
35:BA:143:G:O4'	56:BX:37:THR:HG21	2.19	0.42
40:DF:64:ILE:O	40:DF:65:TRP:CD1	2.72	0.42
42:DH:125:VAL:O	42:DH:127:GLU:N	2.52	0.42
51:DS:80:LEU:C	51:DS:82:ILE:H	2.23	0.42
39:DE:4:ILE:HG21	39:DE:96:PHE:HE2	1.83	0.42
47:BO:104:ARG:HH21	52:BT:33:LYS:CE	2.31	0.42
1:CA:1323:G:H4'	1:CA:1363:C:O2	2.19	0.42
22:AW:22:G:H5''	22:AW:46:G:O6	2.20	0.42
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.55	0.42
1:CA:939:G:H2'	1:CA:940:C:C6	2.54	0.42
39:BE:178:GLU:HG3	39:BE:179:GLU:N	2.35	0.42
4:CD:171:GLY:O	4:CD:174:LEU:N	2.53	0.42
35:BA:621:A:H2'	35:BA:622:G:H5'	2.01	0.42
24:AY:311:ILE:O	24:AY:312:ARG:HB2	2.18	0.42
48:DP:121:LYS:O	48:DP:123:LEU:HD23	2.19	0.42
37:DC:121:GLY:HA2	37:DC:145:VAL:CB	2.49	0.42
22:AW:39:U:H3'	22:AW:40:C:H5'	2.00	0.42
1:CA:693:G:H2'	1:CA:694:A:O4'	2.19	0.42
11:AK:86:GLY:O	11:AK:91:ARG:NH1	2.52	0.42
1:AA:1188:A:H2'	1:AA:1189:C:C5'	2.49	0.42
7:CG:108:ALA:O	7:CG:119:ARG:HB3	2.19	0.42
35:BA:2114:A:H2	35:BA:2168:G:H1'	1.84	0.42
16:AP:21:VAL:HG22	16:AP:21:VAL:O	2.20	0.42
12:CL:83:VAL:CG2	12:CL:84:LEU:N	2.81	0.42
25:D0:43:THR:HG21	35:DA:2336:A:H61	1.84	0.42
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.52	0.42
36:DB:14:U:OP2	36:DB:70:C:O2'	2.37	0.42
1:CA:21:G:H2'	1:CA:22:G:C8	2.54	0.42
8:AH:39:LEU:HD22	8:AH:39:LEU:N	2.34	0.42
58:DZ:4:ARG:HH12	58:DZ:60:GLU:CG	2.32	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:145:ALA:O	42:DH:146:ALA:C	2.57	0.42
16:AP:75:ARG:C	16:AP:77:ALA:N	2.71	0.42
18:AR:86:VAL:O	18:AR:87:ARG:C	2.57	0.42
18:AR:86:VAL:O	18:AR:87:ARG:HD3	2.19	0.42
35:BA:2862:G:C5	35:BA:2863:C:C5	3.07	0.42
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.49	0.42
1:AA:132:C:N3	1:AA:231:G:C2	2.87	0.42
4:AD:3:ARG:HD3	4:AD:5:ILE:HG13	2.00	0.42
1:AA:1255:G:H5'	3:AC:26:LYS:HE3	2.01	0.42
4:CD:73:ARG:NH1	4:CD:73:ARG:HB2	2.29	0.42
1:AA:458:C:H2'	1:AA:460:G:H8	1.81	0.42
3:CC:164:ARG:CZ	3:CC:164:ARG:HB2	2.49	0.42
4:CD:61:LYS:NZ	4:CD:62:GLN:NE2	2.68	0.42
35:DA:958:U:C6	35:DA:958:U:H3'	2.54	0.42
16:CP:39:TYR:CD1	16:CP:73:LEU:HD13	2.54	0.42
35:BA:228:A:H5'	35:BA:229:A:OP2	2.20	0.42
35:DA:228:A:H2'	35:DA:230:U:O4'	2.20	0.42
6:CF:100:ASN:ND2	6:CF:100:ASN:N	2.66	0.42
35:BA:1988:C:O2'	35:BA:1989:G:H5'	2.20	0.42
7:CG:6:ARG:NH2	7:CG:94:ARG:HH22	2.15	0.42
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.84	0.42
35:DA:466:A:N3	35:DA:683:C:H1'	2.34	0.42
3:AC:5:ILE:HD13	3:AC:10:PHE:HB2	2.02	0.42
6:AF:2:ARG:HB2	6:AF:4:TYR:CZ	2.54	0.42
35:BA:2178:C:H2'	35:BA:2179:C:C6	2.53	0.42
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.54	0.42
41:BG:144:ILE:HD12	41:BG:145:THR:H	1.84	0.42
1:CA:993:G:N2	1:CA:1046:A:H1'	2.35	0.42
35:DA:2503:A:H4'	35:DA:2504:U:OP1	2.20	0.42
1:AA:1415:G:C4	1:AA:1416:G:C8	3.07	0.42
38:DD:218:ARG:HG3	38:DD:218:ARG:HH11	1.83	0.42
1:CA:484:G:O2'	1:CA:485:G:P	2.77	0.42
35:BA:775:G:C5	35:BA:794:G:C8	3.07	0.42
35:BA:1948:G:C2'	35:BA:1949:G:H5'	2.49	0.42
44:BJ:74:UNK:C	44:BJ:76:UNK:N	2.82	0.42
1:AA:185:A:N3	20:AT:81:LYS:NZ	2.62	0.42
1:AA:642:A:N3	8:AH:113:SER:OG	2.48	0.42
24:AY:241:GLY:O	24:AY:242:VAL:C	2.57	0.42
56:DX:29:TRP:CZ2	56:DX:76:ARG:NH2	2.87	0.42
12:AL:125:PRO:HB2	12:AL:127:GLU:CD	2.39	0.42
36:DB:52:A:O2'	36:DB:53:A:C8	2.71	0.42
22:CV:39:U:O2'	22:CV:40:C:H5'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2370:G:H2'	35:BA:2371:G:O4'	2.19	0.42
33:D8:22:VAL:O	33:D8:49:VAL:HG23	2.20	0.42
48:BP:26:GLY:HA2	48:BP:30:THR:CG2	2.48	0.42
60:DI:88:ILE:O	60:DI:90:GLY:N	2.53	0.42
35:DA:271(S):G:C6	35:DA:271(T):C:C4	3.08	0.42
37:BC:168:THR:HA	37:BC:173:ALA:CB	2.24	0.42
41:DG:133:LEU:HD23	41:DG:133:LEU:N	2.35	0.42
35:DA:2305:A:H5''	41:DG:134:GLY:HA3	2.00	0.42
41:DG:72:ARG:NH1	41:DG:86:MET:O	2.52	0.42
41:BG:125:PHE:O	41:BG:128:ARG:HG2	2.19	0.42
4:CD:25:ARG:HH12	4:CD:30:LYS:HB2	1.83	0.42
4:CD:54:TYR:O	4:CD:55:ALA:C	2.57	0.42
45:BK:21:PRO:CB	45:BK:22:PRO:HD3	2.32	0.42
53:DU:62:ILE:HD12	53:DU:76:TYR:OH	2.19	0.42
53:DU:91:ASP:OD2	53:DU:96:ALA:CB	2.62	0.42
1:CA:720:C:H5''	18:CR:52:PRO:HA	2.01	0.42
9:CI:91:ASP:C	9:CI:92:TYR:CD1	2.93	0.42
54:BV:17:GLY:HA2	54:BV:96:ILE:O	2.19	0.42
55:DW:5:ALA:O	55:DW:6:ILE:HB	2.20	0.42
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.87	0.42
31:B6:15:GLU:OE2	31:B6:41:PRO:CB	2.67	0.42
1:CA:979:C:C3'	1:CA:980:C:C5'	2.85	0.42
36:BB:83:G:C6	36:BB:84:C:C5	3.08	0.42
24:CY:68:ASP:OD1	24:CY:91:LEU:HD11	2.20	0.42
49:DQ:5:ARG:C	49:DQ:6:ARG:HG2	2.40	0.42
54:BV:18:LEU:CD1	54:BV:19:LYS:H	2.32	0.42
32:D7:10:ARG:O	32:D7:14:LYS:HB2	2.19	0.42
1:AA:1346:A:C5	7:AG:10:ARG:NH1	2.88	0.42
35:DA:2801:A:H5''	35:DA:2802:G:C8	2.54	0.42
46:BN:31:ALA:O	46:BN:32:THR:C	2.58	0.42
24:AY:115:ASN:ND2	24:AY:173:GLY:O	2.52	0.42
2:CB:218:ALA:O	2:CB:222:ILE:HG13	2.19	0.42
2:CB:224:GLN:C	2:CB:226:ARG:N	2.73	0.42
36:DB:83:G:C6	36:DB:84:C:C5	3.08	0.42
48:BP:47:ASP:H	48:BP:48:PRO:HA	1.85	0.42
35:BA:1142(A):A:O2'	35:BA:1143:A:H3'	2.19	0.42
19:CS:43:GLU:O	19:CS:45:VAL:N	2.52	0.42
35:BA:2636:U:H4'	39:BE:80:GLU:CD	2.40	0.42
22:CW:8:U:H1'	22:CW:48:C:H1'	2.00	0.42
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.19	0.42
47:BO:104:ARG:NE	52:BT:33:LYS:HD2	2.35	0.42
52:BT:77:PRO:O	52:BT:78:LEU:HB3	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:6:LYS:HD2	19:AS:6:LYS:N	2.35	0.42
1:AA:187:C:O2'	20:AT:89:ARG:HD2	2.18	0.42
1:CA:1150:U:O2'	10:CJ:41:PRO:HD3	2.19	0.42
5:AE:34:VAL:O	5:AE:41:VAL:HA	2.20	0.42
5:CE:51:VAL:O	5:CE:52:PRO:C	2.56	0.42
7:CG:15:ASP:OD2	7:CG:44:TYR:OH	2.38	0.42
7:CG:15:ASP:C	7:CG:17:VAL:H	2.23	0.42
60:DI:126:TYR:N	60:DI:142:VAL:O	2.44	0.42
46:BN:63:THR:O	46:BN:66:LYS:HG2	2.20	0.42
54:DV:62:LEU:HD21	54:DV:95:LEU:CB	2.39	0.42
35:DA:2290:G:H2'	35:DA:2291:U:O4'	2.18	0.42
46:DN:63:THR:O	46:DN:66:LYS:HG2	2.19	0.42
35:DA:2136:C:H41	35:DA:2156:G:H21	1.67	0.42
1:AA:438:G:H4'	4:AD:123:HIS:ND1	2.35	0.42
35:BA:2263:C:O2'	35:BA:2264:C:H5'	2.18	0.42
45:DK:10:LEU:C	45:DK:10:LEU:HD12	2.39	0.42
26:D1:53:VAL:CG2	26:D1:74:VAL:HG13	2.44	0.42
35:DA:847:U:H2'	35:DA:848:G:C5'	2.45	0.42
2:AB:105:PHE:O	2:AB:106:LYS:C	2.57	0.42
35:DA:2262:U:H2'	35:DA:2263:C:H6	1.83	0.42
11:CK:21:ILE:HG21	11:CK:94:ALA:CB	2.49	0.42
11:CK:115:PRO:C	11:CK:117:ASN:N	2.72	0.42
47:DO:10:VAL:CG2	47:DO:16:ALA:O	2.63	0.42
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.52	0.42
8:AH:36:LEU:HA	8:AH:39:LEU:HD23	2.00	0.42
1:AA:79:G:C4	1:AA:80:G:C8	3.08	0.42
1:AA:80:G:N3	1:AA:80:G:H2'	2.34	0.42
7:CG:152:ALA:O	7:CG:155:ARG:NH1	2.51	0.42
25:B0:43:THR:HG21	35:BA:2336:A:H61	1.84	0.42
2:CB:11:LEU:HD12	2:CB:217:ARG:CZ	2.49	0.42
16:AP:82:GLN:O	16:AP:84:ALA:N	2.52	0.42
1:AA:924:C:H5'	1:AA:1399:C:OP2	2.19	0.42
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.48	0.42
4:CD:58:LEU:HD23	4:CD:206:PHE:CZ	2.54	0.42
29:B4:37:PRO:O	29:B4:55:PRO:HB3	2.19	0.42
18:CR:70:ILE:HG23	18:CR:79:LEU:HD13	2.01	0.42
20:CT:8:ARG:HG3	20:CT:8:ARG:NH1	2.31	0.42
17:AQ:50:LYS:HE3	17:AQ:51:TYR:HE1	1.84	0.42
49:DQ:27:VAL:HG23	49:DQ:105:GLU:OE2	2.18	0.42
9:AI:112:LYS:HA	9:AI:119:ALA:HA	2.01	0.42
41:DG:152:LEU:HA	41:DG:152:LEU:HD12	1.76	0.42
6:CF:10:LEU:HA	6:CF:84:ASN:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.20	0.42
35:BA:1057:A:O2'	35:BA:1058:G:H5'	2.20	0.42
35:DA:909:A:H2'	35:DA:912:C:C5	2.54	0.42
42:DH:47:GLU:CG	42:DH:51:ARG:HH21	2.33	0.42
13:CM:65:LYS:HB3	13:CM:70:LEU:HD12	2.02	0.42
6:AF:2:ARG:HD2	6:AF:4:TYR:OH	2.19	0.42
1:AA:169:C:O2'	1:AA:170:U:H5'	2.20	0.42
11:AK:120:ARG:NH1	11:AK:126:ARG:HE	2.18	0.42
35:BA:204:A:H8	35:BA:204:A:OP1	2.02	0.42
1:CA:883:C:O2'	1:CA:884:U:H5'	2.19	0.42
4:CD:190:ASP:O	4:CD:191:ARG:C	2.57	0.42
8:CH:119:LEU:HD12	8:CH:124:ALA:HA	2.00	0.42
1:CA:658:G:O2'	1:CA:659:U:H5'	2.19	0.42
9:CI:110:GLU:OE2	9:CI:113:LYS:NZ	2.53	0.42
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.82	0.42
1:AA:1186:G:C2	1:AA:1187:G:H1'	2.54	0.42
17:AQ:22:LEU:HD11	17:AQ:39:SER:CB	2.50	0.42
1:AA:754:C:H3'	1:AA:754:C:O2	2.19	0.42
35:DA:970:C:H2'	35:DA:971:C:H6	1.84	0.42
1:AA:539:A:H2'	1:AA:540:G:H8	1.85	0.42
1:CA:1382:C:H4'	7:CG:79:ARG:HH12	1.84	0.42
35:BA:840:C:H2'	35:BA:841:A:C8	2.54	0.42
35:DA:49:A:H5''	35:DA:51:G:O4'	2.19	0.42
53:DU:15:LYS:O	53:DU:19:LYS:HG3	2.19	0.42
1:AA:794:A:H2'	1:AA:795:C:C6	2.55	0.42
8:CH:34:GLU:HA	8:CH:34:GLU:OE1	2.19	0.42
36:BB:1:U:O2	36:BB:1:U:H2'	2.20	0.42
35:DA:2881:C:C4	35:DA:2882:A:N7	2.87	0.42
22:AV:72:C:C2'	22:AV:73:A:C5'	2.69	0.42
21:AU:2:GLY:C	21:AU:4:GLY:N	2.73	0.42
48:DP:23:PRO:HD2	48:DP:33:ARG:NE	2.35	0.42
48:DP:26:GLY:HA2	48:DP:30:THR:CG2	2.49	0.42
48:DP:32:THR:O	48:DP:33:ARG:CB	2.67	0.42
30:B5:2:ALA:HB2	35:BA:2014:A:O2'	2.20	0.42
52:BT:89:VAL:HG12	52:BT:91:ARG:CG	2.49	0.42
59:D4:38:ALA:HB2	59:D4:52:SER:N	2.34	0.42
41:BG:111:LEU:CD2	41:BG:117:PHE:HE2	2.24	0.42
41:BG:161:THR:HG22	41:BG:163:ALA:N	2.35	0.42
41:BG:83:ARG:NE	41:BG:84:LYS:NZ	2.65	0.42
27:B2:63:VAL:HA	27:B2:66:GLU:HG2	2.01	0.42
31:D6:38:LYS:HE2	31:D6:38:LYS:HB2	1.83	0.42
54:BV:46:VAL:CG2	54:BV:47:VAL:H	2.08	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:13:ARG:NH1	52:BT:15:VAL:HG22	2.35	0.42
42:DH:106:THR:C	42:DH:107:VAL:HG13	2.40	0.42
31:B6:20:ASN:CG	31:B6:21:TYR:N	2.73	0.42
22:CW:25:C:O2'	22:CW:26:A:H5'	2.19	0.42
19:AS:61:TYR:CD2	19:AS:62:ILE:N	2.88	0.42
35:BA:534:U:O2'	53:BU:49:HIS:CD2	2.72	0.42
33:B8:27:THR:HG22	48:BP:62:LEU:CD1	2.50	0.42
60:DI:31:LEU:HB2	60:DI:32:PRO:HD3	2.02	0.42
35:DA:2162:G:O2'	35:DA:2163:C:H5'	2.20	0.42
1:CA:1224:G:O2'	1:CA:1225:A:OP1	2.24	0.42
27:B2:7:ARG:NH2	35:BA:102:G:OP2	2.53	0.42
2:CB:80:ILE:HD12	2:CB:208:ILE:HG23	2.01	0.42
48:BP:16:ARG:HD2	48:BP:16:ARG:C	2.40	0.42
52:DT:94:ALA:HB1	52:DT:99:LEU:HD23	2.02	0.42
38:BD:63:ARG:NH1	38:BD:86:PRO:HD2	2.35	0.42
19:CS:45:VAL:HG11	19:CS:64:GLU:HB3	2.01	0.42
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.33	0.42
45:DK:77:LEU:CD1	45:DK:107:ILE:HG23	2.49	0.42
1:CA:404:U:C2	1:CA:405:U:C5	3.07	0.42
35:DA:2808:U:H2'	35:DA:2809:A:H5'	2.01	0.42
34:B9:15:LYS:HZ1	35:BA:2753:A:C1'	2.31	0.42
24:CY:320:TYR:C	24:CY:320:TYR:CD1	2.93	0.42
35:DA:622:G:O2'	35:DA:623:G:H5'	2.19	0.42
49:BQ:112:GLU:CG	49:BQ:113:GLN:N	2.83	0.42
1:CA:939:G:C6	1:CA:940:C:N4	2.88	0.42
39:BE:181:LEU:HD11	52:BT:7:ILE:HD13	2.02	0.42
35:DA:1105:U:O2'	35:DA:1106:G:H5'	2.20	0.42
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	2.00	0.42
2:AB:101:MET:O	2:AB:102:LEU:HD12	2.19	0.42
12:AL:42:THR:OG1	12:AL:52:LEU:HB3	2.19	0.42
17:CQ:74:LEU:HB3	17:CQ:75:ARG:H	1.69	0.42
1:CA:1508:G:H2'	1:CA:1509:C:O4'	2.20	0.42
1:CA:690:G:H2'	1:CA:691:G:C8	2.54	0.42
1:AA:1456:G:H2'	1:AA:1457:G:C5'	2.50	0.42
15:CO:39:LEU:HD11	15:CO:56:LEU:HB2	2.01	0.42
8:CH:5:PRO:HB3	8:CH:32:LYS:NZ	2.34	0.42
1:CA:472:A:H2'	1:CA:473:G:H5'	2.01	0.42
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.40	0.42
1:CA:132:C:O2'	1:CA:133:U:H5'	2.19	0.42
20:CT:74:LYS:O	20:CT:76:ALA:N	2.53	0.42
35:DA:71:A:O2'	35:DA:72:U:OP2	2.27	0.42
24:AY:119:THR:O	24:AY:208:VAL:HA	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1380:G:N2	35:DA:1570:A:C2	2.87	0.42
24:CY:74:GLU:C	24:CY:76:MET:H	2.22	0.42
52:DT:48:ILE:HD12	52:DT:48:ILE:N	2.31	0.42
1:CA:364:A:H2'	1:CA:365:U:O2	2.20	0.42
1:AA:47:C:H4'	1:AA:48:C:O5'	2.20	0.42
45:BK:104:VAL:HG13	45:BK:105:LEU:N	2.35	0.42
9:AI:40:LEU:C	9:AI:42:ARG:H	2.23	0.42
24:CY:189:LEU:C	24:CY:189:LEU:HD13	2.40	0.42
46:DN:90:MET:HA	46:DN:93:THR:HG22	2.02	0.42
1:AA:881:G:P	12:AL:12:ARG:HH22	2.42	0.42
11:CK:41:THR:HG21	11:CK:71:LYS:HD3	2.01	0.42
40:DF:117:ARG:HD3	40:DF:117:ARG:HA	1.63	0.42
35:DA:1991:U:C2'	35:DA:1992:G:H5''	2.49	0.42
1:CA:110:C:O2'	1:CA:111:G:C5'	2.68	0.42
21:CU:25:LYS:NZ	21:CU:25:LYS:HB2	2.35	0.42
6:AF:7:ASN:HD22	6:AF:7:ASN:N	2.16	0.42
37:DC:20:TYR:O	37:DC:22:ILE:N	2.52	0.42
15:AO:32:LEU:O	15:AO:33:THR:C	2.57	0.42
35:BA:1937:A:N7	35:BA:1939:U:H2'	2.34	0.42
35:BA:1939:U:H3'	35:BA:1940:U:C5'	2.49	0.42
35:BA:456:C:C4	56:BX:69:TYR:CE2	3.07	0.42
38:DD:122:ASP:O	38:DD:123:ALA:O	2.38	0.42
50:DR:30:THR:HG22	50:DR:31:HIS:N	2.33	0.42
1:AA:125:U:H2'	1:AA:126:G:C8	2.55	0.42
40:DF:54:ARG:HB2	40:DF:79:GLY:O	2.19	0.42
1:CA:127:G:C2	1:CA:128:G:C8	3.07	0.42
35:BA:507:A:O4'	35:BA:509:C:C2	2.73	0.42
45:DK:86:LYS:HB3	45:DK:86:LYS:NZ	2.34	0.42
7:CG:141:VAL:O	7:CG:141:VAL:HG12	2.20	0.42
35:DA:6:A:O2'	35:DA:7:G:H5'	2.20	0.42
35:DA:271(F):C:H2'	35:DA:271(G):C:C6	2.55	0.42
26:B1:81:LYS:HE2	35:BA:271(H):G:H4'	1.96	0.42
36:BB:8:U:H5'	36:BB:8:U:C6	2.44	0.42
33:D8:59:LYS:HG3	48:DP:50:ARG:CB	2.50	0.42
58:DZ:141:VAL:HG13	58:DZ:141:VAL:O	2.20	0.42
35:BA:2348:U:C3'	35:BA:2349:G:H5''	2.44	0.42
31:B6:11:LEU:HD21	31:B6:26:ASN:HB2	2.01	0.42
31:B6:24:GLU:HB3	31:B6:25:LYS:H	1.58	0.42
31:D6:33:LYS:O	31:D6:34:LEU:CB	2.66	0.42
35:BA:924:C:H2'	35:BA:925:C:C6	2.55	0.42
40:BF:125:LEU:HA	40:BF:125:LEU:HD13	1.81	0.42
42:BH:19:VAL:HG21	42:BH:44:VAL:CA	2.48	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:62:LEU:HG	33:D8:62:LEU:H	1.63	0.42
4:AD:14:ARG:H	4:AD:39:PRO:HA	1.84	0.42
58:BZ:104:PHE:O	58:BZ:105:VAL:CG1	2.66	0.42
27:B2:63:VAL:O	27:B2:67:LYS:HG2	2.19	0.42
4:CD:14:ARG:HD2	4:CD:59:ARG:NH1	2.34	0.42
54:DV:35:LEU:O	54:DV:37:VAL:N	2.52	0.42
60:DI:54:GLN:O	60:DI:58:LEU:HG	2.20	0.42
9:CI:85:LEU:HD13	9:CI:92:TYR:HD2	1.84	0.42
48:DP:39:LYS:O	48:DP:40:SER:CB	2.67	0.42
58:DZ:56:VAL:HG12	58:DZ:57:ILE:N	2.34	0.42
5:AE:146:ALA:O	5:AE:148:VAL:N	2.52	0.42
54:DV:16:PRO:O	54:DV:96:ILE:O	2.37	0.42
56:BX:12:VAL:O	56:BX:12:VAL:HG13	2.20	0.42
57:DY:37:VAL:HG11	57:DY:72:VAL:HG21	2.01	0.42
9:AI:53:VAL:C	9:AI:55:ALA:H	2.22	0.42
48:DP:16:ARG:C	48:DP:16:ARG:HD2	2.40	0.42
35:DA:661:C:O3'	48:DP:18:ARG:HD2	2.18	0.42
35:BA:195:A:C8	35:BA:197:A:OP1	2.73	0.42
40:DF:64:ILE:O	40:DF:65:TRP:HD1	2.03	0.42
38:DD:72:LYS:HE2	38:DD:101:GLU:OE1	2.19	0.42
22:CV:2:C:C2'	22:CV:3:C:C5'	2.98	0.42
37:BC:40:THR:O	37:BC:42:GLU:HG3	2.20	0.42
1:AA:373:A:C4	1:AA:482:A:N7	2.87	0.42
46:DN:60:ILE:HG12	46:DN:60:ILE:H	1.64	0.42
35:BA:2892:A:N6	35:BA:2893:G:N3	2.67	0.42
57:BY:68:HIS:O	57:BY:70:SER:N	2.53	0.42
43:BI:71:ILE:HG13	43:BI:75:LEU:HD13	2.01	0.42
39:DE:73:GLU:CG	39:DE:74:PRO:HD2	2.45	0.42
33:B8:19:SER:CB	35:BA:651:G:OP1	2.67	0.42
24:AY:352:LYS:C	24:AY:354:GLY:H	2.23	0.42
49:DQ:54:MET:HB3	49:DQ:64:ILE:HD13	2.01	0.42
14:CN:19:ARG:O	14:CN:21:TYR:HD1	2.02	0.42
57:DY:66:PRO:O	57:DY:67:LEU:HB3	2.19	0.42
50:DR:49:ASP:OD2	50:DR:95:THR:HG22	2.19	0.42
39:BE:116:VAL:CG2	39:BE:122:PHE:CD2	3.00	0.42
35:DA:910:A:H5'	35:DA:911:A:OP2	2.19	0.42
47:BO:118:ALA:C	47:BO:120:GLU:N	2.73	0.42
33:B8:15:LYS:CG	48:BP:65:ARG:HH21	2.32	0.42
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.85	0.42
35:DA:2022:U:HO2'	35:DA:2617:C:H5'	1.82	0.42
16:CP:20:VAL:HG23	16:CP:35:LYS:HA	2.01	0.42
22:AV:67:C:H2'	22:AV:68:C:O4'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:639:G:H2'	1:CA:640:A:C8	2.55	0.42
6:CF:62:TRP:O	6:CF:62:TRP:HE3	2.03	0.42
1:CA:140:A:H2'	1:CA:141:A:C8	2.55	0.42
35:BA:718:A:H2'	35:BA:719:C:C5'	2.48	0.42
35:BA:1049:C:H2'	35:BA:1050:A:O4'	2.20	0.42
1:AA:140:A:H2'	1:AA:141:A:C8	2.53	0.42
7:AG:145:ALA:O	7:AG:147:ALA:N	2.49	0.42
1:CA:1519:A:N7	1:CA:1520:G:H1'	2.34	0.42
42:DH:153:LYS:HA	42:DH:154:PRO:HD2	1.86	0.42
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.54	0.42
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.49	0.42
35:BA:885:C:C2	35:BA:886:C:N4	2.88	0.42
47:DO:71:ARG:HG3	47:DO:71:ARG:NH1	2.34	0.42
1:CA:40:C:O2'	1:CA:41:G:H5'	2.19	0.42
35:BA:470:A:H5'	35:BA:470:A:C8	2.50	0.42
3:AC:164:ARG:HB2	3:AC:164:ARG:CZ	2.50	0.42
1:CA:862:C:H2'	1:CA:863:U:C5'	2.48	0.42
1:CA:309:G:H2'	1:CA:310:G:H8	1.85	0.42
4:AD:61:LYS:NZ	4:AD:62:GLN:NE2	2.67	0.42
43:BI:37:VAL:CG1	43:BI:38:LEU:N	2.83	0.42
5:AE:72:GLN:O	5:AE:73:ASN:HB3	2.19	0.42
35:DA:2672:G:C2'	35:DA:2673:G:H5''	2.48	0.42
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	2.02	0.42
35:DA:581:C:O2'	35:DA:582:G:H5'	2.20	0.42
20:AT:10:LEU:HG	20:AT:12:ALA:HB3	2.02	0.42
35:DA:557:U:H2'	35:DA:558:G:H8	1.84	0.42
46:DN:119:ARG:HG3	46:DN:119:ARG:HH11	1.85	0.42
26:D1:56:GLN:NE2	26:D1:56:GLN:HA	2.34	0.42
26:D1:56:GLN:OE1	26:D1:85:LEU:HD23	2.20	0.42
37:BC:79:LYS:HG2	37:BC:97:GLU:HG3	2.02	0.42
2:AB:13:ALA:O	2:AB:14:GLY:C	2.56	0.42
3:CC:5:ILE:HD13	3:CC:10:PHE:HB2	2.01	0.42
1:CA:1083:U:C5	1:CA:1084:G:C6	3.08	0.42
45:BK:132:ARG:NH1	45:BK:132:ARG:HG3	2.34	0.42
36:BB:80:U:H2'	36:BB:81:G:C8	2.55	0.42
36:DB:114:C:O2'	51:DS:46:VAL:HG13	2.20	0.42
39:DE:149:ARG:NH1	39:DE:149:ARG:HG3	2.34	0.42
38:DD:69:ARG:NH2	38:DD:128:GLY:O	2.52	0.42
1:CA:38:G:C2	1:CA:397:A:C2	3.07	0.42
1:AA:1023:G:N3	1:AA:1023:G:H2'	2.34	0.42
33:B8:36:LYS:O	33:B8:37:SER:O	2.37	0.42
35:BA:2345:G:N3	35:BA:2381:C:H2'	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:178:ARG:HD2	8:CH:71:GLY:HA2	2.01	0.42
40:BF:10:PRO:O	40:BF:11:VAL:O	2.38	0.42
58:BZ:170:THR:O	58:BZ:172:ALA:N	2.53	0.42
40:DF:28:ILE:HD11	40:DF:115:ALA:CB	2.50	0.42
24:AY:68:ASP:HA	24:AY:71:GLY:HA3	2.02	0.42
41:BG:7:LEU:O	41:BG:11:TYR:N	2.47	0.42
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.19	0.42
2:AB:39:ILE:HG22	2:AB:40:HIS:H	1.85	0.42
53:DU:70:ARG:NH1	53:DU:70:ARG:HG3	2.34	0.42
38:BD:111:LEU:HA	38:BD:115:GLN:OE1	2.19	0.42
37:BC:78:ALA:CA	37:BC:82:LYS:HD2	2.49	0.42
42:BH:106:THR:O	42:BH:107:VAL:CG1	2.67	0.42
54:BV:55:ALA:HA	54:BV:101:GLY:OXT	2.19	0.42
9:CI:83:ARG:HA	9:CI:86:VAL:CG1	2.50	0.42
54:BV:16:PRO:O	54:BV:96:ILE:O	2.37	0.42
55:BW:4:LYS:HG2	55:BW:106:ILE:CG2	2.47	0.42
26:D1:68:PRO:O	26:D1:71:TYR:N	2.53	0.42
57:DY:27:VAL:CA	57:DY:28:LYS:NZ	2.78	0.42
60:DI:69:LYS:HE3	60:DI:136:VAL:O	2.20	0.42
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.19	0.42
35:BA:2875:C:O2'	52:BT:3:ARG:HG3	2.20	0.42
49:BQ:5:ARG:C	49:BQ:6:ARG:HG2	2.40	0.42
2:CB:204:ASN:HD21	2:CB:207:ALA:N	2.18	0.42
2:AB:224:GLN:C	2:AB:226:ARG:N	2.72	0.42
48:BP:48:PRO:O	48:BP:49:ARG:O	2.37	0.42
35:BA:1022:G:H4'	35:BA:1023:U:O5'	2.19	0.42
40:BF:184:TYR:CE1	48:BP:7:ARG:NH2	2.88	0.42
40:BF:40:GLN:OE1	40:BF:184:TYR:CB	2.68	0.42
48:DP:7:ARG:HB2	48:DP:8:PRO:CD	2.48	0.42
19:CS:40:ILE:HG22	19:CS:40:ILE:O	2.19	0.42
20:AT:99:LEU:HB3	20:AT:100:ILE:H	1.69	0.42
35:DA:2181:G:O2'	35:DA:2182:G:H5'	2.20	0.42
1:AA:369:C:N3	1:AA:393:A:C2	2.88	0.42
35:DA:1721:G:H8	35:DA:1741:A:H62	1.67	0.42
57:DY:68:HIS:HB3	57:DY:71:LYS:HG2	2.01	0.42
24:CY:40:ASN:H	24:CY:42:PRO:HD2	1.84	0.42
28:B3:50:VAL:O	28:B3:52:HIS:N	2.53	0.42
35:DA:1107:G:H2'	35:DA:1108:U:C5	2.55	0.42
18:CR:84:LYS:HD3	18:CR:84:LYS:HA	1.89	0.42
49:DQ:56:ARG:HH11	49:DQ:56:ARG:CB	2.24	0.42
39:BE:73:GLU:CG	39:BE:74:PRO:HD2	2.48	0.42
2:CB:115:LEU:HG	2:CB:153:ARG:HH21	1.83	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BK:11:GLN:HE21	45:BK:11:GLN:HB3	1.66	0.42
49:DQ:69:PHE:HA	49:DQ:70:PRO:HD2	1.84	0.42
50:DR:54:LEU:HD23	50:DR:66:VAL:CG2	2.49	0.42
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.20	0.42
35:DA:847:U:C2'	35:DA:848:G:H5''	2.45	0.42
45:BK:62:ASP:O	45:BK:63:ARG:C	2.58	0.42
17:CQ:18:THR:HG22	17:CQ:19:VAL:N	2.34	0.42
35:DA:2692:C:H2'	35:DA:2693:A:C8	2.51	0.42
35:BA:319:C:H2'	35:BA:320:A:O4'	2.19	0.42
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	2.01	0.42
39:DE:11:MET:HB3	39:DE:24:THR:HA	2.01	0.42
13:AM:98:VAL:HG12	13:AM:98:VAL:O	2.20	0.42
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.35	0.42
3:AC:84:ILE:CD1	3:AC:88:ARG:NH2	2.83	0.42
1:CA:102:G:H2'	1:CA:103:C:C6	2.54	0.42
1:AA:1112:C:O2	3:AC:178:LEU:HB2	2.20	0.42
1:AA:102:G:H2'	1:AA:103:C:C6	2.54	0.42
1:AA:222:U:O2'	1:AA:223:U:H5'	2.19	0.42
6:CF:21:LEU:C	6:CF:24:GLU:HG2	2.40	0.42
58:BZ:128:VAL:CG2	58:BZ:132:ASN:HD22	2.32	0.42
24:CY:243:ASN:N	24:CY:243:ASN:HD22	2.17	0.42
42:DH:152:ARG:HA	42:DH:152:ARG:HD3	1.92	0.42
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.50	0.42
27:B2:17:SER:CB	27:B2:18:PRO:HD2	2.47	0.42
3:CC:28:GLN:HA	3:CC:31:HIS:HD2	1.85	0.42
1:AA:216:G:H2'	1:AA:217:C:O4'	2.19	0.42
1:AA:217:C:H2'	1:AA:218:C:C6	2.54	0.42
25:B0:20:ARG:HG3	35:BA:2356:C:H4'	2.02	0.42
35:DA:2662:A:H2'	35:DA:2663:G:O4'	2.20	0.42
16:CP:72:ARG:HH21	16:CP:73:LEU:CD2	2.32	0.42
12:CL:119:LYS:HB2	12:CL:120:TYR:CD1	2.54	0.42
1:AA:538:G:OP2	12:AL:115:LYS:HG3	2.20	0.42
56:BX:66:LEU:HD23	56:BX:66:LEU:C	2.40	0.42
9:AI:32:ASP:HB3	9:AI:35:GLU:HB3	2.00	0.42
49:BQ:14:ARG:HG2	49:BQ:41:TRP:HH2	1.84	0.42
35:DA:912:C:H2'	35:DA:912:C:O2	2.20	0.42
35:BA:654(Q):C:H2'	35:BA:654(R):C:H6	1.81	0.42
4:CD:145:GLU:HG2	4:CD:184:LYS:HZ3	1.85	0.42
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.50	0.42
55:DW:61:ASN:N	55:DW:61:ASN:HD22	2.15	0.42
2:CB:13:ALA:O	2:CB:14:GLY:C	2.57	0.42
46:BN:102:ALA:O	46:BN:106:MET:HE3	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1889:A:N1	35:DA:2234:G:H1'	2.34	0.42
6:CF:7:ASN:HD22	6:CF:7:ASN:N	2.17	0.42
38:BD:76:PRO:HA	38:BD:118:VAL:HB	2.02	0.42
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.40	0.42
58:BZ:42:VAL:O	58:BZ:46:LYS:HG3	2.20	0.42
1:AA:1239:A:H62	1:AA:1299:A:H62	1.67	0.42
1:AA:659:U:H2'	1:AA:660:G:C8	2.53	0.42
2:AB:114:ARG:NH2	2:AB:118:LEU:HD21	2.35	0.42
1:AA:155:C:O2'	1:AA:156:G:H5'	2.20	0.42
1:AA:335:C:O2'	1:AA:1433:A:H1'	2.19	0.42
46:BN:73:THR:HG22	46:BN:74:ARG:N	2.35	0.42
35:BA:697:C:H2'	35:BA:698:C:C6	2.54	0.42
35:BA:900:A:H3'	35:BA:901:A:H8	1.85	0.42
35:BA:1010:A:H1'	35:BA:1153:C:H1'	2.02	0.42
3:CC:54:ARG:HG2	3:CC:55:VAL:N	2.35	0.42
24:CY:214:VAL:HG13	24:CY:215:ASP:N	2.35	0.42
58:BZ:136:PHE:C	58:BZ:136:PHE:CD1	2.93	0.42
3:AC:111:LEU:HD21	3:AC:145:GLY:O	2.20	0.42
3:CC:165:THR:HG22	3:CC:165:THR:O	2.19	0.42
35:DA:2422:A:H4'	35:DA:2423:U:OP1	2.20	0.42
35:BA:432:A:H2'	35:BA:433:C:C6	2.54	0.42
35:BA:271(F):C:H2'	35:BA:271(G):C:C6	2.54	0.42
58:DZ:118:GLN:C	58:DZ:120:ILE:H	2.23	0.42
42:BH:12:PRO:O	42:BH:13:LYS:CB	2.67	0.42
40:BF:25:PRO:HG3	40:BF:119:ARG:HB2	2.00	0.42
35:BA:480:A:H2'	35:BA:481:G:OP1	2.19	0.42
57:BY:47:LYS:N	57:BY:47:LYS:CD	2.70	0.42
24:AY:71:GLY:O	24:AY:72:LEU:HD23	2.20	0.42
35:BA:2308:G:H2'	35:BA:2309:A:O5'	2.20	0.42
36:BB:31:C:H4'	41:BG:29:TRP:HH2	1.80	0.42
41:BG:104:GLU:C	41:BG:106:LEU:H	2.22	0.42
41:BG:37:VAL:O	41:BG:94:LEU:HB2	2.20	0.42
53:DU:65:ILE:HG12	53:DU:96:ALA:CB	2.48	0.42
54:DV:34:GLU:CG	54:DV:56:SER:HB2	2.50	0.42
18:CR:51:LEU:HD23	18:CR:52:PRO:HD2	2.02	0.42
35:DA:1175:U:O5'	35:DA:1176:G:H5'	2.20	0.42
55:DW:4:LYS:HG2	55:DW:106:ILE:CG2	2.47	0.42
9:CI:104:ARG:HA	9:CI:104:ARG:HD2	1.85	0.42
35:BA:2125:G:N2	35:BA:2172:U:OP1	2.48	0.42
1:AA:1147:C:O2	9:AI:16:ARG:CZ	2.68	0.42
33:D8:27:THR:HG22	48:DP:62:LEU:CD1	2.49	0.42
32:D7:9:ARG:NH1	35:DA:1310:G:OP2	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:75:LYS:C	2:CB:77:ALA:N	2.73	0.42
35:BA:2821:A:OP2	50:BR:2:ARG:NH1	2.52	0.42
9:AI:4:TYR:CE2	9:AI:59:PHE:HE2	2.37	0.42
38:DD:31:LYS:HG3	38:DD:33:LEU:HD21	2.01	0.42
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.19	0.42
22:CW:8:U:O2	22:CW:8:U:C2'	2.56	0.42
35:BA:2892:A:H3'	35:BA:2893:G:H5''	2.00	0.42
35:BA:1053:C:O2'	35:BA:1054:A:H5'	2.19	0.42
41:DG:114:ILE:O	41:DG:116:ASP:N	2.53	0.42
49:DQ:43:THR:OG1	49:DQ:46:GLN:CG	2.67	0.42
37:BC:121:GLY:HA2	37:BC:145:VAL:CB	2.49	0.42
51:BS:58:LEU:CD1	51:BS:59:LYS:HG3	2.45	0.42
45:DK:55:VAL:HG13	45:DK:55:VAL:O	2.19	0.42
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	3.03	0.42
13:CM:81:LEU:O	13:CM:89:GLY:HA3	2.19	0.42
1:AA:1291:G:OP1	7:AG:37:ASN:ND2	2.52	0.42
12:AL:50:SER:OG	24:AY:307:TRP:HB3	2.20	0.42
39:BE:151:TYR:HD2	39:BE:154:LYS:HZ3	1.66	0.42
20:CT:22:ARG:O	20:CT:23:ARG:C	2.58	0.42
15:AO:65:ARG:NH1	15:AO:65:ARG:HG2	2.35	0.42
6:AF:40:VAL:HG22	6:AF:41:GLU:N	2.34	0.42
50:BR:63:ARG:O	50:BR:67:LEU:HB2	2.20	0.42
8:AH:33:GLU:O	8:AH:35:ILE:N	2.52	0.42
10:AJ:55:LYS:HB3	10:AJ:55:LYS:HE2	1.91	0.42
53:DU:69:CYS:HG	53:DU:79:PHE:HD1	1.66	0.42
2:CB:92:TYR:HD2	2:CB:92:TYR:H	1.66	0.42
10:CJ:35:SER:O	10:CJ:36:GLY:O	2.37	0.42
10:CJ:74:ILE:O	10:CJ:74:ILE:HG13	2.20	0.42
15:CO:39:LEU:HD13	15:CO:43:LEU:HG	2.01	0.42
16:AP:77:ALA:O	16:AP:78:GLY:O	2.38	0.42
20:CT:70:SER:HA	20:CT:73:HIS:HD2	1.84	0.42
40:DF:116:ASP:OD2	48:DP:5:ASP:N	2.52	0.42
35:DA:862:G:H5'	36:DB:79:C:H4'	2.02	0.42
10:AJ:44:VAL:HG12	10:AJ:45:ARG:H	1.82	0.42
27:B2:12:GLU:O	27:B2:15:LYS:CG	2.68	0.42
35:DA:1558:A:H1'	35:DA:1559:G:OP2	2.19	0.42
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.87	0.42
1:CA:39:G:C5	1:CA:498:U:O4	2.73	0.42
35:DA:324:A:H2'	35:DA:325:G:C5'	2.50	0.42
60:DI:1:MET:SD	60:DI:23:PRO:HA	2.60	0.42
1:CA:72:C:C2	1:CA:98:G:N2	2.88	0.42
41:DG:96:ARG:O	41:DG:99:MET:HB3	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:913:A:H1'	1:CA:914:A:O4'	2.20	0.42
35:DA:1286:A:H2'	35:DA:1288:U:OP2	2.19	0.42
35:BA:1754:C:H2'	35:BA:1755:A:O4'	2.19	0.42
12:AL:9:GLN:O	12:AL:12:ARG:N	2.53	0.42
1:CA:236:G:H2'	1:CA:237:C:C6	2.55	0.42
42:BH:66:GLY:HA2	42:BH:69:ARG:CB	2.50	0.42
36:DB:106:G:O2'	36:DB:107:G:H5'	2.20	0.42
40:BF:164:ARG:NH1	40:BF:164:ARG:HG2	2.34	0.42
35:BA:844:C:C2'	35:BA:845:G:H5'	2.50	0.42
12:CL:9:GLN:O	12:CL:12:ARG:N	2.53	0.42
1:CA:506:G:H2'	1:CA:507:C:H6	1.85	0.42
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.20	0.42
47:BO:110:GLY:HA2	47:BO:112:MET:HE1	2.01	0.42
22:CV:47:U:O2'	22:CV:48:C:OP1	2.37	0.42
4:AD:156:GLU:O	4:AD:160:GLN:HG3	2.20	0.42
1:AA:802:A:H2'	1:AA:803:G:H5'	2.02	0.42
22:AV:74:C:H2'	22:AV:75:C:H5'	2.02	0.42
17:AQ:74:LEU:HB3	17:AQ:75:ARG:H	1.69	0.42
35:DA:1751:C:O2'	35:DA:1752:C:H5'	2.19	0.42
35:BA:1287:A:OP1	50:BR:105:ARG:O	2.38	0.42
35:BA:205:G:O2'	35:BA:206:U:P	2.78	0.42
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	2.20	0.42
41:DG:161:THR:HG22	41:DG:163:ALA:H	1.82	0.42
41:DG:16:ARG:CG	41:DG:16:ARG:HH11	2.32	0.42
13:CM:72:ALA:O	13:CM:76:ALA:HB2	2.20	0.42
13:AM:8:GLU:O	13:AM:9:ILE:HG13	2.20	0.42
31:B6:29:ASN:O	31:B6:30:THR:C	2.58	0.42
33:D8:30:ARG:HH11	33:D8:30:ARG:HG3	1.85	0.42
60:DI:145:VAL:CG1	60:DI:146:ALA:N	2.81	0.42
35:DA:271(T):C:H2'	35:DA:271(U):G:C8	2.48	0.42
58:BZ:151:HIS:CG	58:BZ:152:ALA:H	2.36	0.42
41:DG:126:ASP:O	41:DG:128:ARG:HG2	2.19	0.42
1:AA:509:A:HO2'	1:AA:510:A:P	2.42	0.42
25:B0:41:ARG:HD3	25:B0:44:ARG:HD3	2.01	0.42
52:DT:89:VAL:HG12	52:DT:91:ARG:CG	2.50	0.42
35:DA:744:G:OP1	39:DE:132:HIS:HD2	2.03	0.42
48:DP:147:LEU:CD1	48:DP:148:LEU:HD22	2.45	0.42
35:DA:271(O):C:O2'	35:DA:271(P):C:P	2.78	0.42
60:DI:52:ARG:HB3	60:DI:56:LYS:CE	2.50	0.42
35:DA:782:A:H5'	35:DA:783:A:C2	2.54	0.42
1:CA:980:C:H3'	1:CA:981:U:C6	2.55	0.42
19:AS:60:VAL:HG22	19:AS:61:TYR:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.72	0.42
52:DT:33:LYS:HZ2	52:DT:74:ARG:NH2	2.18	0.42
45:BK:93:ARG:HB2	58:BZ:112:ARG:HB2	2.01	0.42
9:AI:5:TYR:CD1	9:AI:6:GLY:N	2.88	0.42
1:CA:1346:A:C5	7:CG:10:ARG:NH1	2.87	0.42
42:DH:44:VAL:O	42:DH:46:GLU:HG2	2.20	0.42
1:CA:321:A:O2'	1:CA:322:C:H5'	2.20	0.42
35:BA:2801:A:H5''	35:BA:2802:G:C8	2.53	0.42
35:BA:661:C:H4'	48:BP:16:ARG:CD	2.45	0.42
1:AA:1223:C:H3'	1:AA:1224:G:H5''	2.02	0.42
19:AS:15:LEU:O	19:AS:18:LYS:HB3	2.20	0.42
48:BP:10:PRO:HD2	48:BP:11:GLY:H	1.84	0.42
40:DF:184:TYR:HE1	48:DP:7:ARG:NH2	2.17	0.42
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.50	0.42
39:BE:46:ALA:HB2	39:BE:82:ARG:HA	2.02	0.42
38:DD:35:LYS:HD2	38:DD:35:LYS:HA	1.71	0.42
13:CM:28:ALA:C	13:CM:30:ALA:H	2.23	0.42
39:DE:81:ILE:O	39:DE:82:ARG:CB	2.56	0.42
57:DY:51:VAL:O	57:DY:52:SER:CB	2.68	0.42
1:AA:388:G:HO2'	1:AA:389:A:P	2.40	0.42
38:BD:131:LEU:HD11	38:BD:136:ILE:HG12	2.02	0.42
24:CY:291:ARG:NH2	24:CY:295:LEU:HD21	2.34	0.42
1:AA:1358:U:H2'	1:AA:1359:C:O4'	2.20	0.42
39:BE:7:VAL:HG23	39:BE:7:VAL:O	2.20	0.42
46:BN:19:GLU:OE2	46:BN:20:GLY:N	2.53	0.42
57:BY:17:SER:CB	57:BY:71:LYS:HE2	2.49	0.42
24:CY:42:PRO:O	24:CY:45:ALA:CB	2.68	0.42
57:DY:49:VAL:CA	57:DY:53:PRO:HG3	2.43	0.42
33:B8:21:LYS:HD3	33:B8:48:PHE:CE1	2.55	0.42
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	2.02	0.42
1:AA:1053:G:N7	1:AA:1200:C:C5'	2.82	0.42
50:DR:48:VAL:O	50:DR:49:ASP:C	2.57	0.42
1:CA:626:U:H2'	1:CA:627:G:H8	1.85	0.42
11:AK:115:PRO:C	11:AK:117:ASN:N	2.74	0.42
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.84	0.42
12:AL:105:TYR:C	12:AL:107:ALA:N	2.73	0.42
35:BA:2468:G:O2'	35:BA:2469:A:P	2.78	0.42
8:AH:97:VAL:HG13	8:AH:98:LYS:H	1.84	0.42
35:BA:1071:G:C1'	35:BA:1089:G:C8	3.00	0.42
2:AB:8:LYS:O	2:AB:12:GLU:HG3	2.20	0.42
1:AA:473:G:OP2	16:AP:75:ARG:HD3	2.20	0.42
35:BA:2655:G:O2'	35:BA:2656:U:P	2.78	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.85	0.42
35:DA:56:A:C2	35:DA:57:C:C2	3.08	0.42
24:CY:145:GLU:C	24:CY:147:GLN:N	2.72	0.42
24:CY:158:PRO:HA	24:CY:164:ILE:HA	2.01	0.42
1:CA:460:G:C6	1:CA:470:C:H5''	2.55	0.42
1:AA:831:U:H2'	1:AA:832:C:C6	2.51	0.42
1:CA:295:C:H2'	1:CA:296:U:H6	1.82	0.42
35:DA:2296:U:O2	35:DA:2333:A:N3	2.53	0.42
38:DD:206:LEU:O	38:DD:211:ARG:HD3	2.19	0.42
1:AA:923:A:OP1	5:AE:21:ALA:HB2	2.19	0.42
11:CK:80:VAL:O	11:CK:106:LYS:HB2	2.20	0.42
5:AE:28:PHE:O	5:AE:47:LYS:HB3	2.20	0.42
35:DA:2192:G:C2	35:DA:2193:G:C8	3.07	0.42
35:DA:1782:C:O2'	35:DA:1783:A:C5'	2.68	0.42
55:BW:9:TYR:H	55:BW:102:HIS:HD2	1.66	0.42
11:CK:96:ARG:HA	11:CK:99:GLN:CG	2.49	0.42
2:CB:16:HIS:ND1	2:CB:16:HIS:N	2.67	0.42
35:DA:2087:G:C2'	35:DA:2088:G:H5'	2.50	0.42
50:BR:25:ALA:O	50:BR:26:LYS:C	2.59	0.42
1:CA:802:A:C2'	1:CA:803:G:H5'	2.50	0.42
1:CA:993:G:H2'	1:CA:993:G:N3	2.34	0.42
35:BA:765:G:H2'	35:BA:766:C:H6	1.85	0.42
1:AA:693:G:H2'	1:AA:694:A:O4'	2.20	0.42
4:CD:156:GLU:O	4:CD:160:GLN:HG3	2.19	0.42
4:CD:159:ARG:O	4:CD:160:GLN:C	2.58	0.42
10:AJ:29:ARG:CZ	10:AJ:29:ARG:HB3	2.49	0.42
35:BA:2676:C:O2'	35:BA:2677:G:H5'	2.20	0.42
1:AA:37:U:O2'	1:AA:38:G:H5'	2.20	0.42
1:AA:584:G:H2'	1:AA:585:G:H8	1.85	0.42
1:CA:754:C:H3'	1:CA:754:C:O2	2.20	0.42
35:BA:1034:G:H2'	35:BA:1035:U:H6	1.85	0.42
35:BA:432:A:H2'	35:BA:433:C:H6	1.85	0.42
38:DD:6:PHE:HE1	38:DD:18:VAL:HG12	1.83	0.42
26:B1:37:ILE:HD12	35:BA:201:C:OP1	2.20	0.42
24:AY:339:GLY:O	24:AY:340:ASP:C	2.58	0.42
35:DA:1477:A:H5'	35:DA:1478:G:OP2	2.19	0.42
35:DA:1575:C:H2'	35:DA:1575:C:O2	2.19	0.42
24:CY:9:ARG:HH11	24:CY:9:ARG:HG2	1.84	0.42
26:D1:25:LYS:HB2	26:D1:25:LYS:HE3	1.83	0.42
45:DK:71:THR:HG21	45:DK:110:GLN:O	2.20	0.42
48:DP:47:ASP:OD1	48:DP:50:ARG:NH1	2.42	0.41
52:BT:80:SER:O	52:BT:82:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1495:A:H2'	35:BA:1496:A:N3	2.35	0.41
35:DA:2758:A:C4	42:DH:67:LEU:HD21	2.55	0.41
2:CB:181:PHE:O	2:CB:182:ILE:HG13	2.20	0.41
28:D3:6:VAL:HG12	28:D3:54:VAL:HG21	2.02	0.41
30:D5:2:ALA:HB3	35:DA:747:U:C2	2.55	0.41
40:DF:10:PRO:C	40:DF:128:ALA:HB2	2.39	0.41
4:AD:11:LEU:C	4:AD:13:ARG:N	2.71	0.41
41:DG:77:ILE:HD13	41:DG:77:ILE:HA	1.88	0.41
58:BZ:104:PHE:O	58:BZ:105:VAL:O	2.38	0.41
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.85	0.41
35:DA:535:C:C2'	35:DA:536:A:H5'	2.50	0.41
1:CA:1126:U:C2'	1:CA:1127:G:H5'	2.50	0.41
9:CI:90:PRO:O	9:CI:92:TYR:N	2.46	0.41
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.20	0.41
42:DH:106:THR:O	42:DH:107:VAL:HG13	2.19	0.41
5:AE:71:LEU:CD2	5:AE:115:VAL:HG22	2.49	0.41
52:BT:50:ILE:HD11	52:BT:64:ARG:CB	2.50	0.41
54:BV:35:LEU:O	54:BV:37:VAL:N	2.53	0.41
5:CE:80:ILE:HG22	8:CH:104:ARG:HH21	1.85	0.41
57:DY:7:VAL:HG11	57:DY:8:LYS:NZ	2.34	0.41
60:DI:5:LEU:CD2	60:DI:9:LEU:HD12	2.50	0.41
27:B2:6:VAL:O	27:B2:9:GLN:HB2	2.20	0.41
35:BA:102:G:OP1	35:BA:102:G:H4'	2.20	0.41
2:CB:55:PHE:HA	2:CB:58:ILE:CG1	2.49	0.41
2:CB:75:LYS:CA	2:CB:78:GLN:HG3	2.36	0.41
35:BA:661:C:H4'	48:BP:18:ARG:HG2	2.02	0.41
35:BA:1142(A):A:C5	35:BA:1144:G:C5	3.08	0.41
26:B1:3:LYS:HB2	35:BA:1364:G:OP2	2.20	0.41
38:DD:63:ARG:NH1	38:DD:86:PRO:HD2	2.35	0.41
1:CA:1323:G:O3'	1:CA:1363:C:O2	2.38	0.41
1:CA:738:C:H2'	1:CA:739:C:H6	1.83	0.41
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.84	0.41
5:CE:40:ARG:HH21	5:CE:66:MET:HE3	1.85	0.41
48:BP:122:PRO:O	48:BP:123:LEU:HB3	2.19	0.41
48:BP:121:LYS:O	48:BP:123:LEU:HD23	2.20	0.41
49:DQ:2:LEU:HG	49:DQ:69:PHE:CE1	2.55	0.41
35:BA:2259:G:O2'	35:BA:2260:C:H5'	2.20	0.41
43:BI:120:ILE:HG22	43:BI:121:LYS:N	2.35	0.41
35:DA:1453:U:OP1	50:DR:77:ARG:NH1	2.53	0.41
50:DR:54:LEU:HG	50:DR:62:ALA:HB1	2.02	0.41
42:DH:25:LYS:CA	42:DH:34:GLU:HA	2.50	0.41
35:BA:2698:U:H2'	35:BA:2699:C:C6	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:624:C:H2'	1:CA:625:G:C8	2.53	0.41
16:AP:20:VAL:HG23	16:AP:34:GLU:C	2.41	0.41
35:DA:2574:G:O2'	35:DA:2575:C:H5'	2.19	0.41
39:DE:116:VAL:O	39:DE:117:MET:CB	2.60	0.41
11:CK:18:ARG:HB3	11:CK:33:THR:O	2.20	0.41
13:AM:88:ARG:O	13:AM:98:VAL:HG11	2.19	0.41
57:DY:20:TYR:O	57:DY:21:LYS:C	2.58	0.41
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	2.02	0.41
13:AM:15:VAL:HG22	13:AM:41:PRO:O	2.20	0.41
15:AO:39:LEU:C	15:AO:39:LEU:HD13	2.39	0.41
35:BA:2118:U:C5	35:BA:2148:G:O2'	2.62	0.41
1:AA:1058:G:H2'	1:AA:1059:C:O4'	2.20	0.41
8:CH:39:LEU:O	8:CH:44:PHE:N	2.49	0.41
24:AY:302:VAL:C	24:AY:303:GLU:HG2	2.40	0.41
35:BA:821:A:O2'	35:BA:945:A:O3'	2.37	0.41
35:BA:271(A):A:H3'	35:BA:271(B):C:H6	1.84	0.41
1:AA:141:A:C2	1:AA:142:G:C5	3.08	0.41
3:CC:16:ARG:HB2	3:CC:16:ARG:NH1	2.31	0.41
36:BB:21:G:H1	36:BB:62:C:H42	1.67	0.41
35:DA:2863:C:H2'	35:DA:2864:G:H8	1.85	0.41
1:AA:604:G:C5	1:AA:605:U:C4	3.08	0.41
35:BA:1097:U:H2'	35:BA:1098:A:O4'	2.20	0.41
24:CY:351:TRP:O	24:CY:355:ARG:HG3	2.19	0.41
58:DZ:161:VAL:O	58:DZ:161:VAL:HG12	2.20	0.41
1:CA:1353:G:O2'	1:CA:1354:C:H5'	2.20	0.41
33:B8:29:LYS:HD3	33:B8:44:LYS:CB	2.50	0.41
37:BC:67:GLY:O	37:BC:68:LEU:HB2	2.20	0.41
25:B0:20:ARG:NH1	35:BA:2271:G:C5'	2.83	0.41
26:D1:13:ILE:HG12	26:D1:42:GLN:HB2	2.01	0.41
1:CA:1003:G:O2'	1:CA:1004:A:H4'	2.20	0.41
35:DA:470:A:C5'	35:DA:470:A:H8	2.33	0.41
4:CD:79:PHE:CE1	4:CD:204:ILE:HD13	2.55	0.41
1:CA:1135:U:H4'	1:CA:1136:U:H5	1.84	0.41
35:BA:1791:A:C8	35:BA:1792:G:C8	3.07	0.41
38:DD:231:HIS:CD2	38:DD:249:PRO:HG3	2.55	0.41
5:CE:112:LEU:HD23	5:CE:112:LEU:N	2.35	0.41
35:DA:580:C:H2'	35:DA:581:C:C6	2.55	0.41
35:BA:709:U:H2'	35:BA:710:G:C8	2.55	0.41
44:BJ:102:UNK:C	44:BJ:104:UNK:N	2.83	0.41
7:AG:6:ARG:NH2	7:AG:94:ARG:HH22	2.17	0.41
36:BB:106:G:H2'	36:BB:107:G:H8	1.85	0.41
37:DC:79:LYS:HG2	37:DC:97:GLU:HG3	2.01	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:802:A:H2'	1:CA:803:G:H5'	2.01	0.41
1:AA:632:A:C8	1:AA:633:G:C8	3.07	0.41
44:BJ:27:UNK:O	44:BJ:82:UNK:HA	2.20	0.41
35:BA:237:C:O2'	35:BA:238:C:H5'	2.20	0.41
1:CA:123:C:H5''	1:CA:311:C:O2'	2.19	0.41
35:DA:1939:U:OP1	35:DA:2604:U:O2'	2.36	0.41
35:BA:370:G:O5'	35:BA:370:G:H8	2.03	0.41
44:DJ:21:UNK:HA	44:DJ:88:UNK:HA	2.01	0.41
11:AK:112:THR:HG23	11:AK:113:PRO:HD2	2.01	0.41
1:CA:125:U:H2'	1:CA:126:G:C8	2.55	0.41
1:CA:1403:C:H6	1:CA:1403:C:O5'	2.02	0.41
9:AI:41:VAL:O	9:AI:41:VAL:HG12	2.20	0.41
24:AY:137:LEU:HD13	24:AY:137:LEU:C	2.39	0.41
1:CA:282:A:N3	1:CA:282:A:H2'	2.35	0.41
13:AM:77:ASN:O	13:AM:80:ARG:HB3	2.20	0.41
26:D1:57:GLU:HG2	26:D1:58:ILE:N	2.35	0.41
37:BC:132:GLY:O	37:BC:133:PRO:CB	2.67	0.41
26:B1:82:LEU:HB3	26:B1:90:ILE:HD12	2.02	0.41
57:DY:97:ARG:NH2	57:DY:98:VAL:HG23	2.35	0.41
21:AU:2:GLY:O	21:AU:4:GLY:N	2.53	0.41
1:AA:358:U:O2'	1:AA:359:U:H5'	2.20	0.41
1:AA:50:A:N6	1:AA:361:G:H4'	2.35	0.41
2:CB:161:ALA:HA	2:CB:182:ILE:CG2	2.50	0.41
40:DF:25:PRO:CB	40:DF:119:ARG:HH11	2.25	0.41
58:BZ:145:GLU:CD	58:BZ:146:ILE:H	2.24	0.41
41:BG:108:ASN:O	41:BG:109:VAL:CG2	2.69	0.41
41:BG:60:LEU:HB3	41:BG:68:PRO:HG2	2.01	0.41
35:BA:1657:C:O2'	35:BA:1658:C:H5'	2.20	0.41
4:CD:14:ARG:H	4:CD:39:PRO:HA	1.85	0.41
24:AY:33:LEU:CD1	35:BA:1095:A:H61	2.33	0.41
50:DR:10:LEU:HD13	50:DR:17:ARG:HH11	1.82	0.41
26:D1:7:ILE:HD11	26:D1:70:VAL:HG22	2.02	0.41
35:DA:807:U:OP2	48:DP:39:LYS:HG2	2.20	0.41
42:DH:94:TYR:CA	42:DH:107:VAL:HG12	2.37	0.41
38:DD:242:ARG:O	38:DD:244:ARG:N	2.52	0.41
53:BU:95:LEU:HD11	54:BV:11:GLN:HG3	1.98	0.41
47:DO:104:ARG:NE	52:DT:33:LYS:HD2	2.35	0.41
1:CA:955:U:H2'	1:CA:956:U:H6	1.85	0.41
58:BZ:48:PHE:CA	58:BZ:51:ALA:HB3	2.34	0.41
57:DY:4:LYS:C	57:DY:4:LYS:CD	2.88	0.41
57:DY:4:LYS:HZ1	57:DY:5:MET:HE1	1.86	0.41
36:BB:94:C:O2'	36:BB:95:C:H5'	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:57:ARG:O	24:CY:61:THR:HG22	2.21	0.41
10:AJ:24:VAL:HG21	10:AJ:37:PRO:HG3	2.02	0.41
54:BV:21:ARG:HB3	54:BV:91:TYR:CD2	2.55	0.41
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.20	0.41
32:B7:9:ARG:NH1	35:BA:1310:G:OP2	2.53	0.41
19:AS:76:PRO:HB2	19:AS:81:ARG:HD3	2.02	0.41
38:BD:59:LYS:O	38:BD:60:ARG:HG3	2.20	0.41
35:BA:1025:G:C4	35:BA:1135:C:H1'	2.55	0.41
20:CT:48:LYS:HD2	20:CT:51:GLU:OE2	2.20	0.41
40:DF:64:ILE:C	40:DF:65:TRP:CD1	2.93	0.41
20:AT:92:LEU:C	20:AT:94:ALA:N	2.73	0.41
22:AW:8:U:O2	22:AW:8:U:H2'	2.20	0.41
35:DA:2107:C:H42	35:DA:2182:G:H1	1.66	0.41
35:DA:1721:G:H8	35:DA:1741:A:N6	2.18	0.41
4:CD:150:GLU:H	4:CD:150:GLU:CD	2.24	0.41
2:AB:71:VAL:CG2	2:AB:164:VAL:HG13	2.47	0.41
1:AA:429:U:H1'	1:AA:430:A:H5''	2.01	0.41
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	2.02	0.41
50:DR:55:ALA:CB	50:DR:79:LEU:HD22	2.50	0.41
3:CC:138:VAL:C	3:CC:140:ARG:N	2.74	0.41
13:CM:88:ARG:O	13:CM:98:VAL:HG11	2.19	0.41
7:AG:155:ARG:O	7:AG:156:TRP:O	2.38	0.41
42:DH:54:ARG:HB2	42:DH:55:PRO:HD2	2.02	0.41
42:DH:58:GLU:O	42:DH:61:HIS:N	2.52	0.41
1:CA:502:G:C6	1:CA:503:C:C4	3.08	0.41
24:AY:203:THR:HB	24:AY:307:TRP:CZ3	2.54	0.41
39:BE:11:MET:HB3	39:BE:24:THR:HA	2.00	0.41
39:DE:23:VAL:CG1	39:DE:173:VAL:HG21	2.44	0.41
1:AA:1310:G:OP2	13:AM:88:ARG:NH2	2.47	0.41
13:CM:15:VAL:HG22	13:CM:41:PRO:O	2.20	0.41
50:BR:83:ILE:HD13	50:BR:86:ARG:HH12	1.85	0.41
35:DA:117:G:C6	35:DA:119:A:C6	3.08	0.41
39:BE:120:TRP:CE3	39:BE:155:LYS:HD3	2.54	0.41
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.50	0.41
1:CA:80:G:H2'	1:CA:80:G:N3	2.35	0.41
1:AA:321:A:N6	1:AA:332:G:H1	2.16	0.41
36:BB:60:C:H2'	36:BB:61:G:C8	2.45	0.41
20:CT:73:HIS:O	20:CT:74:LYS:HB2	2.19	0.41
48:DP:75:ILE:O	48:DP:77:ARG:HG3	2.20	0.41
47:DO:79:PHE:HD2	52:DT:72:VAL:HG22	1.84	0.41
36:DB:92:C:OP1	49:DQ:19:GLY:HA3	2.21	0.41
24:AY:315:VAL:HG21	24:AY:320:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BK:105:LEU:O	45:BK:108:ALA:HB3	2.20	0.41
25:B0:20:ARG:NH1	35:BA:2271:G:H5''	2.34	0.41
3:CC:35:GLU:OE2	3:CC:59:ARG:NH2	2.53	0.41
36:DB:16:G:H2'	36:DB:17:C:C6	2.55	0.41
35:DA:2295:C:H2'	35:DA:2296:U:H6	1.85	0.41
1:AA:1396:A:H4'	1:AA:1398:A:H1'	1.98	0.41
35:DA:1248:G:N2	40:DF:88:VAL:CG2	2.83	0.41
22:CV:75:C:OP2	24:CY:266:ARG:NH2	2.53	0.41
24:CY:343:ASP:O	24:CY:346:TRP:HB2	2.20	0.41
9:CI:32:ASP:HB3	9:CI:35:GLU:HB3	2.01	0.41
46:DN:111:PRO:HG3	46:DN:114:ARG:NH2	2.36	0.41
18:AR:37:VAL:O	18:AR:41:LYS:HB2	2.20	0.41
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.56	0.41
7:CG:57:GLU:N	7:CG:57:GLU:CD	2.74	0.41
26:B1:79:GLY:HA3	35:BA:271(Q):G:H1'	2.02	0.41
1:AA:659:U:O2'	1:AA:660:G:H5'	2.19	0.41
4:CD:103:ASN:O	4:CD:106:TYR:HB3	2.19	0.41
12:CL:113:ARG:HD2	12:CL:116:SER:O	2.20	0.41
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.53	0.41
17:CQ:32:TYR:O	17:CQ:34:LYS:N	2.53	0.41
14:AN:42:ILE:C	14:AN:44:LEU:H	2.23	0.41
35:BA:436:C:H2'	35:BA:437:G:C8	2.55	0.41
20:CT:81:LYS:C	20:CT:83:ARG:N	2.74	0.41
8:CH:47:GLY:O	8:CH:62:TYR:HD2	2.03	0.41
9:AI:110:GLU:OE2	9:AI:113:LYS:NZ	2.53	0.41
37:DC:132:GLY:O	37:DC:133:PRO:CB	2.68	0.41
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.20	0.41
45:BK:71:THR:HG21	45:BK:110:GLN:O	2.20	0.41
38:BD:221:VAL:O	38:BD:221:VAL:HG13	2.21	0.41
5:AE:145:LYS:HD3	5:AE:145:LYS:O	2.19	0.41
53:DU:41:ALA:O	53:DU:42:ALA:C	2.58	0.41
41:BG:48:GLU:O	41:BG:49:ASP:HB3	2.19	0.41
33:D8:56:GLU:O	33:D8:59:LYS:HB2	2.21	0.41
35:DA:665:C:O2'	35:DA:666:G:H5'	2.20	0.41
22:AV:72:C:C3'	22:AV:73:A:C5'	2.98	0.41
35:DA:613:G:C6	35:DA:614:U:C4	3.08	0.41
1:AA:1330:U:H5'	1:AA:1331:G:OP2	2.19	0.41
31:B6:27:LYS:HD2	35:BA:2285:C:OP2	2.21	0.41
35:BA:814:C:O2'	35:BA:815:C:H5'	2.21	0.41
2:CB:174:VAL:HG13	2:CB:184:VAL:HG21	2.02	0.41
35:BA:1452:A:C5	35:BA:2702:U:O2	2.72	0.41
35:DA:449:A:OP1	40:DF:84:VAL:O	2.39	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:51:GLU:CA	24:AY:54:ARG:NH2	2.80	0.41
24:CY:62:PHE:O	24:CY:66:GLU:N	2.53	0.41
27:B2:65:ASN:O	27:B2:69:ARG:HG3	2.20	0.41
4:CD:8:VAL:HA	4:CD:11:LEU:HD21	2.02	0.41
24:AY:33:LEU:HB3	24:AY:36:PRO:CD	2.50	0.41
50:DR:10:LEU:HD22	50:DR:17:ARG:HG2	2.02	0.41
54:DV:6:LYS:HE2	54:DV:37:VAL:HG12	2.02	0.41
42:BH:94:TYR:CD1	42:BH:94:TYR:N	2.87	0.41
35:BA:1826:G:C4'	38:BD:242:ARG:HE	2.24	0.41
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	2.03	0.41
26:D1:68:PRO:C	26:D1:70:VAL:N	2.73	0.41
41:DG:117:PHE:CZ	41:DG:179:PRO:HB2	2.55	0.41
35:DA:1827:C:C2'	35:DA:1828:G:C5'	2.91	0.41
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	2.00	0.41
46:DN:128:HIS:HA	46:DN:129:PRO:HD2	1.86	0.41
19:AS:39:THR:HG22	19:AS:40:ILE:N	2.35	0.41
35:BA:784:A:C6	38:BD:229:VAL:HG21	2.55	0.41
8:CH:120:THR:HG23	8:CH:123:GLU:CD	2.40	0.41
1:AA:1130:A:C2	1:AA:1146:A:C5	3.09	0.41
49:DQ:6:ARG:O	49:DQ:7:MET:HB3	2.20	0.41
1:CA:1374:A:O2'	7:CG:28:ASN:HB3	2.19	0.41
52:BT:3:ARG:CG	52:BT:6:LEU:H	2.20	0.41
35:BA:2732:G:C3'	35:BA:2733:A:C5'	2.98	0.41
58:BZ:57:ILE:HG22	58:BZ:58:VAL:N	2.35	0.41
58:BZ:61:LEU:HD21	58:BZ:67:LEU:HD13	2.02	0.41
2:AB:87:ARG:HH12	2:AB:223:ILE:HD13	1.80	0.41
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.74	0.41
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.74	0.41
1:CA:1432:G:P	52:DT:107:ASP:HB2	2.60	0.41
42:BH:83:TYR:HA	42:BH:135:GLY:N	2.16	0.41
1:CA:355:C:H4'	1:CA:388:G:HO2'	1.84	0.41
48:BP:47:ASP:OD1	48:BP:50:ARG:NH1	2.43	0.41
40:BF:184:TYR:HE1	48:BP:7:ARG:NH2	2.18	0.41
42:BH:30:LYS:CE	42:BH:81:GLU:HG2	2.49	0.41
52:DT:125:ARG:O	52:DT:128:GLU:HG3	2.20	0.41
57:BY:51:VAL:O	57:BY:52:SER:CB	2.68	0.41
57:BY:88:LYS:NZ	57:BY:93:GLY:CA	2.84	0.41
5:AE:40:ARG:HH21	5:AE:66:MET:HE3	1.85	0.41
35:BA:2789:C:OP1	35:BA:2789:C:H4'	2.20	0.41
35:DA:27:G:C2'	35:DA:28:A:OP2	2.68	0.41
24:AY:114:LYS:N	24:AY:114:LYS:HD2	2.35	0.41
20:AT:22:ARG:O	20:AT:23:ARG:C	2.58	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:25:ARG:HG3	20:AT:25:ARG:HH11	1.85	0.41
37:DC:77:ILE:HG21	37:DC:123:VAL:CB	2.51	0.41
1:CA:1188:A:H2'	1:CA:1189:C:C5'	2.50	0.41
10:CJ:48:THR:HG23	10:CJ:62:HIS:CG	2.56	0.41
24:CY:75:LEU:HD11	24:CY:84:ARG:CB	2.51	0.41
1:CA:613:C:C2	1:CA:628:G:N2	2.89	0.41
33:D8:15:LYS:CB	48:DP:65:ARG:HH21	2.33	0.41
33:D8:15:LYS:CG	48:DP:65:ARG:HH21	2.30	0.41
12:CL:70:ILE:HD13	12:CL:77:LEU:HD12	2.03	0.41
47:DO:118:ALA:C	47:DO:120:GLU:N	2.73	0.41
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	2.03	0.41
1:AA:624:C:H2'	1:AA:625:G:C8	2.54	0.41
35:DA:2579:C:O2'	35:DA:2580:U:H5'	2.20	0.41
57:BY:16:ALA:O	57:BY:21:LYS:HD3	2.19	0.41
39:DE:23:VAL:CA	39:DE:184:VAL:O	2.68	0.41
35:BA:2468:G:HO2'	35:BA:2469:A:P	2.44	0.41
7:AG:81:GLY:C	7:AG:83:ALA:H	2.22	0.41
8:AH:112:LEU:HD11	8:AH:131:GLY:C	2.40	0.41
10:AJ:56:HIS:C	10:AJ:58:ASP:N	2.73	0.41
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.76	0.41
35:BA:985:C:H2'	35:BA:986:C:H6	1.86	0.41
1:CA:79:G:C4	1:CA:80:G:C8	3.09	0.41
42:BH:137:ASP:O	42:BH:138:LYS:HB2	2.20	0.41
1:CA:1442(B):A:H4'	1:CA:1443:G:OP1	2.19	0.41
1:AA:966:G:O2'	1:AA:967:C:H6	1.96	0.41
35:BA:1484:G:H2'	35:BA:1484:G:N3	2.36	0.41
16:CP:82:GLN:O	16:CP:84:ALA:N	2.53	0.41
35:DA:1093:G:C2'	35:DA:1094:U:H5'	2.50	0.41
4:CD:3:ARG:HD3	4:CD:3:ARG:O	2.20	0.41
6:AF:21:LEU:C	6:AF:24:GLU:HG2	2.40	0.41
1:AA:1170:A:H2'	1:AA:1171:G:H5'	2.02	0.41
52:DT:57:PHE:O	52:DT:58:ASN:C	2.59	0.41
2:AB:124:SER:OG	2:AB:126:GLU:HG3	2.21	0.41
50:BR:39:PRO:C	50:BR:41:ALA:H	2.24	0.41
1:CA:1231:G:H5''	9:CI:128:ARG:HD3	2.01	0.41
39:BE:25:VAL:HG13	39:BE:183:LEU:HD12	2.01	0.41
35:DA:887:A:N3	35:DA:889:C:OP2	2.53	0.41
17:CQ:48:GLU:HB2	17:CQ:50:LYS:CG	2.49	0.41
38:BD:261:LYS:HZ2	38:BD:261:LYS:HB2	1.85	0.41
40:DF:139:PHE:CG	40:DF:167:ALA:HB2	2.55	0.41
35:BA:820:A:N3	35:BA:943:U:H4'	2.35	0.41
35:DA:709:U:H2'	35:DA:710:G:C8	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DJ:102:UNK:C	44:DJ:104:UNK:N	2.83	0.41
35:BA:558:G:OP1	46:BN:111:PRO:HD2	2.20	0.41
55:DW:9:TYR:H	55:DW:102:HIS:HD2	1.66	0.41
1:CA:922:G:C2	1:CA:923:A:C4	3.08	0.41
1:CA:710:G:O2'	1:CA:711:G:H5'	2.20	0.41
38:DD:118:VAL:N	38:DD:129:ASN:OD1	2.39	0.41
35:DA:1992:G:O2'	35:DA:1993:U:OP2	2.33	0.41
4:AD:103:ASN:O	4:AD:106:TYR:HB3	2.19	0.41
36:DB:106:G:H2'	36:DB:107:G:H8	1.85	0.41
53:BU:39:LEU:HA	53:BU:39:LEU:HD23	1.86	0.41
4:AD:190:ASP:O	4:AD:191:ARG:C	2.57	0.41
1:CA:505:G:H2'	1:CA:506:G:H8	1.85	0.41
35:DA:1184:G:C5	35:DA:1185:C:C5	3.08	0.41
11:AK:41:THR:HG21	11:AK:71:LYS:HD3	2.02	0.41
50:DR:13:HIS:O	50:DR:14:SER:C	2.57	0.41
1:AA:1462:G:O2'	1:AA:1463:C:H5'	2.20	0.41
20:CT:82:SER:O	20:CT:86:ARG:HD2	2.20	0.41
40:DF:155:LEU:HB2	40:DF:189:THR:OG1	2.19	0.41
35:BA:205:G:O2'	35:BA:206:U:OP2	2.38	0.41
35:DA:981:A:H2	35:DA:2027:G:N3	2.18	0.41
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	2.21	0.41
35:DA:455:C:N3	35:DA:472:A:H2'	2.35	0.41
35:DA:487:C:H2'	35:DA:488:G:C8	2.56	0.41
35:BA:928:G:H8	35:BA:928:G:O5'	2.04	0.41
10:CJ:68:HIS:N	10:CJ:68:HIS:CD2	2.88	0.41
35:DA:654(B):C:C6	35:DA:654(B):C:OP2	2.73	0.41
38:BD:69:ARG:NH2	38:BD:128:GLY:O	2.53	0.41
35:DA:1029:A:H2'	35:DA:1030:G:O4'	2.21	0.41
1:AA:260:G:H2'	1:AA:261:U:C6	2.55	0.41
26:B1:92:LYS:HZ3	35:BA:153:C:P	2.42	0.41
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	2.21	0.41
36:BB:37:C:C2'	36:BB:38:C:H5'	2.50	0.41
48:DP:47:ASP:H	48:DP:48:PRO:HA	1.85	0.41
57:BY:84:ARG:HG3	57:BY:84:ARG:NH1	2.36	0.41
35:BA:2181:G:O2'	35:BA:2182:G:H5'	2.21	0.41
58:BZ:71:VAL:HG22	58:BZ:88:PHE:CD2	2.55	0.41
21:CU:2:GLY:C	21:CU:4:GLY:N	2.73	0.41
35:DA:926:A:H8	35:DA:926:A:H5'	1.85	0.41
33:D8:33:ASN:O	35:DA:2420:C:OP1	2.38	0.41
35:DA:2757:A:H2'	35:DA:2758:A:H5'	2.02	0.41
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	2.02	0.41
33:D8:5:LYS:HG2	35:DA:242:G:C8	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2704:C:H2'	35:BA:2705:A:C8	2.55	0.41
24:AY:68:ASP:C	24:AY:71:GLY:H	2.23	0.41
24:CY:55:LEU:HA	24:CY:58:THR:OG1	2.20	0.41
35:BA:1747(A):G:C2'	35:BA:1748:G:C5'	2.78	0.41
41:BG:9:ARG:O	41:BG:11:TYR:N	2.53	0.41
35:BA:742:G:O2'	35:BA:743:G:H5'	2.20	0.41
1:CA:509:A:C2	1:CA:510:A:C2	3.09	0.41
1:CA:542:G:P	4:CD:10:ARG:HH21	2.43	0.41
53:DU:88:ILE:CG2	54:DV:47:VAL:O	2.68	0.41
25:D0:49:LYS:N	25:D0:80:HIS:CB	2.70	0.41
40:BF:84:VAL:C	40:BF:86:GLY:N	2.74	0.41
42:BH:159:GLU:CG	42:BH:160:LYS:HG2	2.28	0.41
35:DA:491:G:O2'	35:DA:492:A:H5'	2.21	0.41
52:BT:64:ARG:HD2	52:BT:73:GLU:OE2	2.21	0.41
54:BV:5:VAL:HG21	54:BV:35:LEU:HB3	2.02	0.41
51:DS:88:ASP:O	51:DS:89:ARG:O	2.38	0.41
60:DI:33:ARG:C	60:DI:35:LEU:H	2.22	0.41
26:D1:87:PRO:CG	26:D1:88:LYS:N	2.82	0.41
2:CB:51:LEU:O	2:CB:55:PHE:HD2	2.03	0.41
1:AA:1224:G:O2'	1:AA:1225:A:OP1	2.24	0.41
38:BD:25:THR:HG22	38:BD:82:ILE:N	2.23	0.41
38:BD:31:LYS:HG3	38:BD:33:LEU:HD21	2.02	0.41
9:CI:4:TYR:HB2	9:CI:19:LEU:HD12	2.02	0.41
39:BE:88:GLY:O	39:BE:89:ASP:CB	2.68	0.41
10:CJ:22:LYS:HZ2	10:CJ:23:ILE:HG12	1.85	0.41
57:BY:48:ALA:O	57:BY:49:VAL:CG1	2.59	0.41
1:CA:1316:G:H2'	1:CA:1317:C:H5''	2.02	0.41
39:BE:176:ILE:HG22	39:BE:179:GLU:H	1.85	0.41
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.35	0.41
4:AD:153:ARG:HH12	4:AD:181:MET:HB2	1.86	0.41
48:DP:87:ASP:O	48:DP:89:ALA:N	2.53	0.41
5:CE:6:PHE:HD1	5:CE:6:PHE:N	2.18	0.41
58:DZ:39:VAL:HG23	58:DZ:40:ASP:O	2.21	0.41
24:CY:109:PHE:HZ	24:CY:178:GLY:HA2	1.85	0.41
1:CA:1228:C:P	13:CM:115:LYS:HE3	2.60	0.41
60:DI:10:GLU:HG2	60:DI:11:ASN:OD1	2.20	0.41
11:CK:27:ASN:HA	11:CK:56:GLY:CA	2.50	0.41
3:AC:175:LEU:CD1	3:AC:175:LEU:H	2.32	0.41
50:DR:52:ILE:HD13	50:DR:79:LEU:HD21	2.02	0.41
2:AB:69:LEU:HD22	2:AB:159:PRO:HG2	2.01	0.41
35:BA:1639:U:HO2'	35:BA:1640:C:H5''	1.84	0.41
35:BA:2574:G:O2'	35:BA:2575:C:H5'	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:CP:8:ARG:CG	16:CP:9:PHE:N	2.83	0.41
7:AG:77:SER:HB2	22:AW:32:U:H4'	2.02	0.41
2:CB:100:GLY:O	2:CB:104:ASN:C	2.59	0.41
3:CC:11:ARG:HH11	3:CC:11:ARG:CG	2.34	0.41
60:DI:109:ILE:HG13	60:DI:130:TYR:HE1	1.85	0.41
60:DI:97:ILE:O	60:DI:98:ALA:C	2.59	0.41
20:CT:27:LYS:O	20:CT:27:LYS:HE2	2.20	0.41
1:CA:1112:C:O2	3:CC:178:LEU:HB2	2.20	0.41
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	2.02	0.41
2:CB:82:ARG:HA	2:CB:92:TYR:HE1	1.78	0.41
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.55	0.41
35:DA:2745:C:C4	35:DA:2746:U:C4	3.08	0.41
35:DA:1472:A:H2'	35:DA:1473:G:O4'	2.21	0.41
1:CA:263:A:OP1	20:CT:79:ARG:HD3	2.21	0.41
2:CB:91:PRO:CG	2:CB:155:LEU:HD23	2.50	0.41
42:BH:153:LYS:HA	42:BH:154:PRO:HD2	1.86	0.41
7:AG:75:VAL:HG13	7:AG:145:ALA:HA	2.03	0.41
35:DA:2364:C:O2'	35:DA:2365:G:H5'	2.20	0.41
35:BA:910:A:H5'	35:BA:911:A:OP2	2.21	0.41
4:CD:57:ARG:CG	4:CD:57:ARG:HH11	2.31	0.41
1:AA:1251:A:H5''	9:AI:12:GLU:OE1	2.20	0.41
35:DA:1097:U:H2'	35:DA:1098:A:O4'	2.20	0.41
1:AA:1191:A:P	3:AC:3:ASN:ND2	2.94	0.41
1:CA:1170:A:H2'	1:CA:1171:G:C5'	2.51	0.41
35:DA:1999:C:O2'	35:DA:2000:G:H5'	2.21	0.41
30:D5:7:PRO:HA	35:DA:2615:U:N1	2.34	0.41
35:DA:958:U:C6	35:DA:958:U:C3'	3.03	0.41
35:DA:956:G:N2	35:DA:959:A:H3'	2.36	0.41
1:AA:309:G:H2'	1:AA:310:G:H8	1.85	0.41
1:AA:72:C:C2	1:AA:98:G:N2	2.88	0.41
20:AT:60:GLU:HA	20:AT:63:ILE:HD12	2.01	0.41
53:DU:8:VAL:CG1	53:DU:12:ARG:HD2	2.50	0.41
1:AA:235:C:H2'	1:AA:236:G:C8	2.53	0.41
1:AA:1048:G:H4'	14:AN:2:ALA:N	2.36	0.41
12:AL:6:THR:HG23	12:AL:9:GLN:CD	2.40	0.41
58:DZ:29:TYR:CE2	58:DZ:87:ASP:HB2	2.55	0.41
35:BA:2683:C:H2'	35:BA:2684:U:C6	2.56	0.41
18:CR:37:VAL:O	18:CR:41:LYS:HB2	2.20	0.41
52:DT:53:ARG:HG2	52:DT:53:ARG:NH1	2.35	0.41
36:BB:106:G:C2	36:BB:107:G:C8	3.08	0.41
35:DA:2087:G:O2'	35:DA:2088:G:H5'	2.19	0.41
1:CA:706:A:O2'	11:CK:31:THR:CG2	2.68	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BO:26:LYS:HB3	47:BO:27:GLY:H	1.53	0.41
35:BA:2870:C:C2'	35:BA:2871:C:H5'	2.51	0.41
3:AC:188:LEU:HD12	3:AC:195:VAL:HG13	2.01	0.41
2:CB:236:TYR:HA	2:CB:239:VAL:CG2	2.49	0.41
37:BC:20:TYR:O	37:BC:22:ILE:N	2.53	0.41
36:BB:79:C:H2'	36:BB:80:U:O4'	2.20	0.41
14:CN:42:ILE:C	14:CN:44:LEU:H	2.24	0.41
1:AA:1194:U:H4'	5:AE:22:GLY:O	2.20	0.41
1:CA:96:U:H2'	1:CA:97:G:H8	1.85	0.41
1:CA:651:C:H2'	1:CA:652:U:C6	2.54	0.41
55:DW:99:ARG:HH11	55:DW:99:ARG:HG2	1.84	0.41
50:BR:13:HIS:O	50:BR:14:SER:C	2.59	0.41
2:AB:118:LEU:O	2:AB:122:PHE:HB2	2.20	0.41
1:AA:55:A:N1	60:DI:89:TYR:CG	2.88	0.41
39:BE:105:THR:OG1	39:BE:199:ARG:NH2	2.40	0.41
32:B7:35:ARG:NH1	32:B7:42:LEU:HD11	2.36	0.41
35:BA:2588:G:O2'	35:BA:2589:A:H5'	2.20	0.41
35:DA:2462:U:H2'	35:DA:2463:C:C6	2.55	0.41
44:BJ:39:UNK:C	44:BJ:41:UNK:N	2.82	0.41
35:DA:183:C:H1'	35:DA:433:C:H1'	2.01	0.41
1:AA:396:G:O2'	1:AA:398:C:OP1	2.35	0.41
35:BA:1751:C:O2'	35:BA:1752:C:H5'	2.20	0.41
35:DA:1028:A:N6	35:DA:1125:G:H2'	2.35	0.41
35:BA:2623:G:H4'	35:BA:2825:C:O2	2.19	0.41
35:DA:666:G:H4'	48:DP:49:ARG:NH1	2.36	0.41
35:DA:1590:U:C3'	35:DA:1591:G:H5''	2.47	0.41
58:DZ:125:LEU:HB3	58:DZ:165:VAL:HG23	2.02	0.41
33:B8:62:LEU:H	33:B8:62:LEU:HG	1.62	0.41
13:CM:9:ILE:CG2	13:CM:11:ARG:NE	2.82	0.41
35:DA:2419:U:H2'	35:DA:2420:C:H6	1.85	0.41
16:AP:5:ARG:HE	16:AP:22:THR:CG2	2.32	0.41
57:BY:46:LYS:HD3	57:BY:47:LYS:HZ1	1.81	0.41
24:AY:54:ARG:HH11	24:AY:101:LEU:HD23	1.86	0.41
25:B0:41:ARG:HB2	25:B0:42:GLY:H	1.75	0.41
41:BG:133:LEU:HD11	41:BG:135:LEU:HD11	2.02	0.41
41:BG:161:THR:HG21	41:BG:172:LEU:HD23	2.01	0.41
35:BA:574:C:H1'	35:BA:2055:C:C6	2.55	0.41
54:DV:38:LEU:O	54:DV:52:VAL:HG12	2.20	0.41
35:BA:1841:U:O2	38:BD:244:ARG:NH2	2.53	0.41
52:BT:13:ARG:HH12	52:BT:15:VAL:CG1	2.33	0.41
24:CY:46:ARG:HH12	24:CY:50:GLN:HG3	1.85	0.41
24:CY:54:ARG:HA	24:CY:57:ARG:CG	2.51	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:266:G:O2'	1:AA:267:C:P	2.77	0.41
27:D2:3:LEU:HD23	27:D2:7:ARG:NE	2.23	0.41
26:D1:88:LYS:HZ3	26:D1:92:LYS:CB	2.30	0.41
35:DA:2801(A):A:H4'	35:DA:2802:G:C5'	2.38	0.41
2:CB:187:LEU:HD11	2:CB:203:GLY:O	2.19	0.41
58:BZ:59:LEU:CD1	58:BZ:69:THR:HG21	2.51	0.41
58:BZ:59:LEU:HD11	58:BZ:69:THR:HG21	2.03	0.41
1:AA:106:C:O2'	1:AA:107:G:H5'	2.20	0.41
42:DH:30:LYS:CE	42:DH:81:GLU:HG2	2.50	0.41
3:CC:106:VAL:HG12	3:CC:108:ASN:C	2.41	0.41
48:DP:9:ASN:N	48:DP:10:PRO:CD	2.83	0.41
22:AW:8:U:H3'	22:AW:13:C:N4	2.35	0.41
1:CA:1329:A:OP1	13:CM:29:ARG:HB2	2.21	0.41
35:DA:2789:C:N3	35:DA:2894:G:O6	2.54	0.41
24:CY:288:ARG:HA	24:CY:291:ARG:HB2	1.97	0.41
6:CF:4:TYR:HD1	6:CF:92:LYS:HA	1.85	0.41
60:DI:47:LEU:O	60:DI:49:ALA:N	2.54	0.41
46:BN:55:VAL:CG2	46:BN:127:ASP:H	2.33	0.41
41:DG:110:ALA:O	41:DG:111:LEU:C	2.58	0.41
1:AA:1150:U:O2'	10:AJ:41:PRO:HD3	2.20	0.41
35:BA:2189:U:C2'	35:BA:2190:G:C5'	2.90	0.41
2:CB:71:VAL:HG23	2:CB:164:VAL:CG1	2.46	0.41
16:AP:49:LEU:HD12	16:AP:50:LYS:N	2.33	0.41
58:BZ:116:VAL:HG12	58:BZ:117:LEU:N	2.35	0.41
34:D9:8:LYS:H	34:D9:34:GLN:HE22	1.68	0.41
1:CA:1054:C:O2	1:CA:1054:C:C3'	2.69	0.41
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.19	0.41
46:DN:42:TRP:O	53:DU:64:ARG:NE	2.42	0.41
13:CM:90:LEU:O	13:CM:91:ARG:HB2	2.20	0.41
13:CM:98:VAL:HG12	13:CM:98:VAL:O	2.21	0.41
35:DA:2260:C:H2'	35:DA:2261:C:C6	2.53	0.41
42:BH:41:MET:CE	42:BH:55:PRO:HD3	2.50	0.41
1:AA:624:C:O3'	16:AP:10:GLY:HA2	2.20	0.41
2:AB:95:GLN:HA	2:AB:95:GLN:OE1	2.20	0.41
13:AM:89:GLY:C	13:AM:90:LEU:O	2.54	0.41
35:DA:2468:G:H8	35:DA:2476:A:H62	1.68	0.41
1:AA:1061:G:O4'	10:AJ:56:HIS:CE1	2.74	0.41
1:CA:781:A:H2'	1:CA:782:A:H5'	2.02	0.41
3:CC:102:ASN:O	3:CC:103:VAL:CG2	2.68	0.41
35:DA:1049:C:H2'	35:DA:1050:A:O4'	2.20	0.41
10:CJ:54:PHE:CD2	10:CJ:55:LYS:HG2	2.55	0.41
54:BV:79:VAL:O	54:BV:79:VAL:CG1	2.67	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:CP:6:LEU:HG	16:CP:19:ILE:CD1	2.51	0.41
42:BH:145:ALA:O	42:BH:146:ALA:C	2.56	0.41
35:DA:2096:U:H2'	35:DA:2097:C:C6	2.46	0.41
1:AA:472:A:H2'	1:AA:473:G:H5'	2.03	0.41
36:BB:61:G:C6	36:BB:62:C:C4	3.09	0.41
35:DA:59:U:O2'	35:DA:73:A:H2'	2.20	0.41
35:BA:1519:G:H5'	35:BA:1520:G:P	2.60	0.41
7:AG:75:VAL:CG1	7:AG:145:ALA:HA	2.50	0.41
1:AA:263:A:OP1	20:AT:79:ARG:HD3	2.20	0.41
6:CF:19:LEU:CD2	6:CF:23:LYS:HD2	2.51	0.41
29:B4:38:ALA:HB2	29:B4:52:SER:N	2.36	0.41
1:AA:1109:C:P	3:AC:176:HIS:HD1	2.43	0.41
1:CA:1191:A:H5''	3:CC:4:LYS:NZ	2.35	0.41
48:DP:99:LEU:HD23	48:DP:102:ARG:NH1	2.35	0.41
1:CA:851:G:H2'	1:CA:852:G:C8	2.53	0.41
25:D0:36:ILE:HD11	35:DA:2355:C:H4'	2.02	0.41
1:CA:217:C:H2'	1:CA:218:C:C6	2.55	0.41
39:BE:201:THR:OG1	39:BE:202:LYS:N	2.53	0.41
20:CT:10:LEU:HG	20:CT:12:ALA:HB3	2.02	0.41
35:BA:1783:A:C2	35:BA:2587:A:C4	3.08	0.41
1:CA:1048:G:H4'	14:CN:2:ALA:N	2.36	0.41
35:DA:1376:C:O2'	35:DA:1377:G:H5'	2.21	0.41
3:AC:95:THR:C	3:AC:97:LYS:H	2.24	0.41
36:BB:106:G:O2'	36:BB:107:G:H5'	2.21	0.41
11:CK:120:ARG:HH22	11:CK:126:ARG:NH2	2.18	0.41
11:CK:120:ARG:HH22	11:CK:126:ARG:HH21	1.68	0.41
46:BN:26:LEU:HG	46:BN:30:ILE:HD11	2.02	0.41
49:DQ:137:TYR:HD2	58:DZ:76:LEU:CD2	2.34	0.41
43:BI:123:LEU:HD23	43:BI:124:GLY:N	2.36	0.41
2:CB:239:VAL:O	2:CB:240:GLN:HB2	2.21	0.41
50:BR:94:TYR:C	50:BR:117:VAL:HB	2.40	0.41
35:DA:1417:C:O2'	35:DA:1418:G:H5'	2.21	0.41
35:DA:304:G:H2'	35:DA:305:U:H6	1.85	0.41
3:AC:121:ALA:O	3:AC:125:GLU:HG3	2.20	0.41
1:CA:37:U:O2'	1:CA:38:G:H5'	2.21	0.41
35:BA:1446:C:H2'	35:BA:1447:G:H8	1.85	0.41
1:CA:44:G:H2'	1:CA:45:U:O4'	2.21	0.41
44:DJ:39:UNK:C	44:DJ:41:UNK:N	2.80	0.41
1:AA:993:G:N3	1:AA:993:G:H2'	2.34	0.41
24:CY:228:ARG:HG2	24:CY:228:ARG:HH11	1.85	0.41
35:DA:928:G:H8	35:DA:928:G:O5'	2.02	0.41
1:AA:528:C:O2'	1:AA:529:G:H5'	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:335:C:H2'	35:BA:336:C:H6	1.86	0.41
26:B1:51:VAL:CG2	26:B1:52:ARG:N	2.84	0.41
36:BB:6:C:O2'	51:BS:29:PHE:HE1	2.04	0.41
41:DG:16:ARG:N	41:DG:17:PRO:HD2	2.36	0.41
58:DZ:108:PRO:CA	58:DZ:142:SER:HA	2.43	0.41
58:DZ:98:MET:HE1	58:DZ:99:TYR:O	2.20	0.41
35:DA:109:G:O2'	35:DA:110:G:H5'	2.21	0.41
35:BA:2419:U:H2'	35:BA:2420:C:H6	1.85	0.41
31:D6:51:GLU:O	31:D6:52:VAL:HG23	2.20	0.41
52:BT:31:SER:HG	52:BT:43:GLN:N	2.19	0.41
35:DA:1452:A:C5	35:DA:2702:U:O2	2.73	0.41
30:D5:45:VAL:HG22	30:D5:51:TYR:CD2	2.56	0.41
40:BF:9:ILE:O	40:BF:10:PRO:O	2.39	0.41
24:AY:49:SER:O	24:AY:52:ALA:N	2.54	0.41
41:BG:109:VAL:O	41:BG:110:ALA:O	2.38	0.41
41:BG:120:LEU:O	41:BG:121:ASN:C	2.58	0.41
35:DA:995:C:C6	53:DU:57:PHE:HE1	2.39	0.41
53:DU:90:VAL:C	53:DU:92:ARG:N	2.74	0.41
1:CA:328:C:O2'	1:CA:329:A:P	2.79	0.41
38:DD:223:GLY:HA2	38:DD:226:MET:HE3	2.02	0.41
12:AL:39:VAL:HG12	12:AL:40:VAL:N	2.35	0.41
35:DA:1018:C:O2'	35:DA:1019:U:H5'	2.20	0.41
10:AJ:37:PRO:O	10:AJ:39:PRO:HD3	2.20	0.41
32:D7:9:ARG:HG3	32:D7:9:ARG:HH11	1.85	0.41
6:CF:8:ILE:HD12	6:CF:26:ILE:CD1	2.51	0.41
35:DA:661:C:H4'	48:DP:16:ARG:CD	2.46	0.41
58:BZ:57:ILE:O	58:BZ:69:THR:OG1	2.38	0.41
2:AB:75:LYS:CA	2:AB:78:GLN:HE21	2.33	0.41
52:DT:50:ILE:HD11	52:DT:64:ARG:CB	2.50	0.41
2:AB:42:ILE:O	2:AB:42:ILE:HG23	2.20	0.41
1:CA:358:U:O2'	1:CA:359:U:H5'	2.20	0.41
42:BH:125:VAL:O	42:BH:127:GLU:N	2.52	0.41
1:CA:187:C:O2'	20:CT:89:ARG:HD2	2.20	0.41
30:D5:58:LEU:C	30:D5:59:GLU:HG3	2.41	0.41
54:DV:99:ILE:CD1	54:DV:99:ILE:N	2.79	0.41
22:CW:49:C:H2'	22:CW:50:U:H5'	2.02	0.41
22:CW:19:G:O2'	35:DA:2112:G:H1'	2.21	0.41
35:DA:2114:A:H2	35:DA:2168:G:H1'	1.84	0.41
57:DY:51:VAL:O	57:DY:52:SER:HB3	2.20	0.41
52:BT:78:LEU:C	52:BT:79:HIS:ND1	2.74	0.41
39:DE:7:VAL:HG23	39:DE:7:VAL:O	2.20	0.41
20:AT:98:PRO:HB2	20:AT:106:ALA:HB1	2.01	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2787:C:O2	35:DA:2787:C:C2'	2.68	0.41
35:DA:2810:A:O2'	39:DE:61:ARG:HB2	2.20	0.41
46:BN:35:ARG:O	46:BN:36:GLY:C	2.59	0.41
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.85	0.41
5:CE:139:LEU:O	5:CE:141:GLN:N	2.54	0.41
55:BW:75:TYR:C	55:BW:75:TYR:CD1	2.94	0.41
49:BQ:56:ARG:CB	49:BQ:56:ARG:HH11	2.24	0.41
1:CA:1072:G:C5	1:CA:1073:U:C4	3.09	0.41
5:CE:32:VAL:HG12	5:CE:33:VAL:N	2.36	0.41
35:DA:2883:A:H5'	35:DA:2884:U:H5'	2.02	0.41
45:DK:125:ARG:O	45:DK:127:ILE:N	2.53	0.41
45:DK:62:ASP:O	45:DK:63:ARG:C	2.57	0.41
7:AG:118:VAL:HG23	7:AG:119:ARG:H	1.86	0.41
2:CB:102:LEU:C	2:CB:180:LEU:HD11	2.41	0.41
1:AA:639:G:H2'	1:AA:640:A:C8	2.56	0.41
35:DA:951:C:O2'	35:DA:952:G:H5'	2.21	0.41
40:BF:6:VAL:HG12	40:BF:7:TYR:O	2.21	0.41
35:DA:604:G:H2'	35:DA:605:C:C6	2.55	0.41
57:DY:31:LEU:CB	57:DY:32:PRO:CA	2.98	0.41
16:CP:21:VAL:HG22	16:CP:21:VAL:O	2.20	0.41
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.35	0.41
40:DF:7:TYR:CB	40:DF:16:GLY:C	2.88	0.41
35:BA:56:A:C2	35:BA:57:C:C2	3.08	0.41
39:BE:120:TRP:CD1	39:BE:155:LYS:HB3	2.56	0.41
8:CH:39:LEU:HD22	8:CH:39:LEU:N	2.36	0.41
6:CF:39:LYS:O	6:CF:40:VAL:HB	2.20	0.41
6:CF:61:LEU:HD23	6:CF:63:TYR:CZ	2.55	0.41
10:CJ:12:ASP:OD2	10:CJ:13:HIS:N	2.54	0.41
7:CG:75:VAL:HG13	7:CG:145:ALA:HA	2.03	0.41
2:CB:8:LYS:O	2:CB:12:GLU:HG3	2.20	0.41
1:AA:1071:C:H5''	5:AE:49:PRO:HG2	2.01	0.41
53:BU:110:VAL:HG12	53:BU:114:LYS:HD2	2.03	0.41
1:CA:1353:G:H1	1:CA:1369:C:N4	2.18	0.41
42:DH:152:ARG:NH1	42:DH:153:LYS:HE3	2.36	0.41
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.20	0.41
50:BR:39:PRO:O	50:BR:41:ALA:N	2.53	0.41
1:AA:851:G:H2'	1:AA:852:G:C8	2.54	0.41
24:CY:332:ASP:N	24:CY:333:PRO:CD	2.84	0.41
24:CY:188:ARG:HG2	24:CY:189:LEU:N	2.36	0.41
35:DA:1644:C:O2	35:DA:1644:C:C2'	2.68	0.41
35:BA:1795:C:H2'	35:BA:1796:U:O4'	2.20	0.41
58:DZ:80:ARG:O	58:DZ:81:ARG:C	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:40:C:O2'	1:AA:41:G:H5'	2.21	0.41
50:BR:72:ASP:CB	50:BR:75:LEU:HB2	2.50	0.41
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.56	0.41
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.20	0.41
55:BW:61:ASN:N	55:BW:61:ASN:ND2	2.68	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:OG	2.20	0.41
18:CR:33:ASP:HB3	18:CR:36:ASN:ND2	2.35	0.41
35:DA:296:C:H2'	35:DA:297:C:C6	2.56	0.41
36:DB:97:G:H2'	36:DB:98:G:H5'	2.02	0.41
41:DG:141:PHE:HB2	41:DG:144:ILE:HG22	2.01	0.41
55:BW:99:ARG:HG2	55:BW:99:ARG:HH11	1.86	0.41
1:AA:189(F):U:C2	17:AQ:72:ARG:NH1	2.88	0.41
32:D7:29:LYS:HE3	35:DA:210:C:P	2.60	0.41
3:AC:54:ARG:HD3	3:AC:69:HIS:CD2	2.56	0.41
8:AH:128:GLY:O	8:AH:129:VAL:HG13	2.21	0.41
35:BA:1398:C:O2'	35:BA:1399:C:H5'	2.21	0.41
35:DA:1817:G:C5	35:DA:1818:U:C5	3.08	0.41
35:DA:652:C:O2'	35:DA:653:A:O5'	2.38	0.41
35:BA:2563:U:O2'	47:BO:28:SER:HB3	2.20	0.41
22:AW:18:G:C2	22:AW:56:C:N4	2.89	0.41
30:B5:52:TYR:CD1	30:B5:52:TYR:O	2.73	0.41
3:CC:38:ARG:HB3	3:CC:38:ARG:HE	1.55	0.41
45:DK:3:LYS:HG2	45:DK:4:VAL:N	2.36	0.41
1:CA:229:U:O2'	16:CP:23:ASP:OD2	2.38	0.41
35:DA:665:C:H2'	35:DA:666:G:H8	1.85	0.41
35:DA:614:U:O2	35:DA:614:U:O4'	2.37	0.41
13:AM:3:ARG:HD2	29:B4:60:GLU:CD	2.40	0.41
33:B8:32:LEU:C	33:B8:33:ASN:O	2.56	0.41
52:BT:31:SER:HB3	52:BT:43:GLN:O	2.21	0.41
58:BZ:166:SER:N	58:BZ:167:PRO:CA	2.82	0.41
42:BH:44:VAL:O	42:BH:46:GLU:HG2	2.21	0.41
42:BH:45:VAL:O	42:BH:46:GLU:C	2.59	0.41
52:BT:120:ARG:O	52:BT:124:ASP:OD1	2.38	0.41
35:DA:590:A:H2'	35:DA:591:C:H6	1.85	0.41
59:D4:37:PRO:O	59:D4:55:PRO:HB3	2.20	0.41
41:DG:83:ARG:HB2	41:DG:84:LYS:H	1.56	0.41
1:AA:720:C:H5''	18:AR:52:PRO:HA	2.02	0.41
41:BG:31:VAL:HG22	41:BG:32:PRO:CD	2.48	0.41
35:BA:2314:C:H4'	41:BG:38:VAL:HG21	2.01	0.41
52:DT:31:SER:CB	52:DT:43:GLN:O	2.69	0.41
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.45	0.41
35:BA:744:G:OP1	39:BE:132:HIS:HD2	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:32:ALA:C	4:CD:34:GLU:N	2.74	0.41
54:DV:49:THR:O	54:DV:50:PRO:C	2.57	0.41
48:DP:128:HIS:O	48:DP:147:LEU:HD22	2.20	0.41
42:BH:88:LEU:CD2	42:BH:88:LEU:N	2.83	0.41
38:BD:242:ARG:O	38:BD:244:ARG:N	2.53	0.41
9:CI:53:VAL:C	9:CI:55:ALA:N	2.74	0.41
31:D6:18:ARG:NH2	31:D6:43:CYS:O	2.51	0.41
41:DG:173:LEU:HD22	41:DG:178:PHE:HE2	1.85	0.41
24:CY:30:GLU:HB3	45:DK:25:PRO:HG3	2.01	0.41
38:DD:227:ASN:N	38:DD:227:ASN:OD1	2.54	0.41
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.21	0.41
35:DA:1841:U:O2	38:DD:244:ARG:NH2	2.54	0.41
54:DV:22:VAL:O	54:DV:22:VAL:CG1	2.68	0.41
53:BU:92:ARG:CZ	54:BV:11:GLN:O	2.69	0.41
52:DT:35:LYS:HZ3	52:DT:41:ARG:HH21	1.64	0.41
51:BS:89:ARG:NH1	51:BS:92:TYR:HA	2.11	0.41
36:BB:94:C:H2'	36:BB:95:C:H6	1.86	0.41
57:DY:27:VAL:HA	57:DY:28:LYS:CE	2.49	0.41
1:AA:1126:U:H6	1:AA:1126:U:P	2.44	0.41
9:AI:50:LEU:HD21	9:AI:81:ILE:CG2	2.50	0.41
60:DI:34:GLY:C	60:DI:36:ALA:H	2.24	0.41
32:D7:8:ASN:ND2	32:D7:10:ARG:H	2.18	0.41
22:AW:63:G:O2'	37:BC:53:ARG:HG2	2.21	0.41
35:DA:661:C:H4'	48:DP:18:ARG:HG2	2.03	0.41
58:BZ:92:SER:OG	58:BZ:93:ASP:N	2.53	0.41
1:AA:354:G:H2'	1:AA:354:G:N3	2.36	0.41
2:AB:75:LYS:C	2:AB:77:ALA:N	2.74	0.41
1:CA:357:G:C3'	1:CA:358:U:H5''	2.50	0.41
38:BD:82:ILE:HG12	38:BD:92:ILE:O	2.20	0.41
22:CV:2:C:H2'	22:CV:3:C:H5''	1.98	0.41
38:BD:106:ILE:CD1	38:BD:106:ILE:C	2.87	0.41
49:BQ:112:GLU:HG3	49:BQ:113:GLN:N	2.35	0.41
7:CG:76:ARG:HB2	7:CG:89:MET:SD	2.60	0.41
54:BV:69:LYS:HB2	54:BV:88:ARG:HD3	2.03	0.41
5:CE:53:LEU:CD1	5:CE:53:LEU:H	2.26	0.41
43:BI:72:LEU:CD2	43:BI:72:LEU:H	2.33	0.41
41:DG:111:LEU:HD23	41:DG:114:ILE:CD1	2.51	0.41
43:BI:6:LEU:H	43:BI:36:ALA:HA	1.85	0.41
33:B8:48:PHE:CE2	35:BA:650:C:OP1	2.61	0.41
24:AY:113:GLU:H	24:AY:113:GLU:CD	2.23	0.41
48:BP:88:LEU:HD12	48:BP:95:VAL:HG11	2.01	0.41
48:BP:95:VAL:HG23	48:BP:125:VAL:HA	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BC:77:ILE:HG21	37:BC:123:VAL:CB	2.50	0.41
1:AA:423:G:H5'	35:DA:2139:C:P	2.59	0.41
58:BZ:116:VAL:N	58:BZ:175:VAL:O	2.53	0.41
34:B9:7:VAL:HG12	34:B9:25:VAL:HG21	2.02	0.41
26:D1:51:VAL:HG21	26:D1:74:VAL:HG21	2.03	0.41
58:BZ:79:ARG:HG3	58:BZ:79:ARG:NH1	2.36	0.41
47:DO:88:ASN:HD21	47:DO:90:GLN:HB2	1.85	0.41
16:AP:20:VAL:HG22	16:AP:21:VAL:H	1.83	0.41
1:AA:519:C:OP1	24:AY:188:ARG:NH1	2.53	0.41
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.20	0.41
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.56	0.41
35:BA:2682:U:C5	39:BE:11:MET:HE1	2.55	0.41
60:DI:138:ILE:CG2	60:DI:139:GLN:N	2.84	0.41
16:CP:20:VAL:CG2	16:CP:21:VAL:N	2.84	0.41
8:CH:100:ILE:HG23	8:CH:101:PRO:CD	2.51	0.41
3:CC:102:ASN:C	3:CC:103:VAL:HG23	2.41	0.41
2:CB:92:TYR:HE2	2:CB:151:GLY:N	2.19	0.41
35:DA:2785:C:O2'	39:DE:64:LYS:HG3	2.21	0.41
8:AH:65:TYR:N	8:AH:65:TYR:CD1	2.88	0.41
58:BZ:128:VAL:CG2	58:BZ:129:SER:H	2.31	0.41
42:BH:155:SER:OG	42:BH:156:ALA:N	2.52	0.41
34:B9:13:LYS:O	34:B9:27:CYS:SG	2.79	0.41
26:B1:45:ASN:HD22	26:B1:45:ASN:C	2.24	0.41
26:B1:7:ILE:CD1	26:B1:70:VAL:HG22	2.51	0.41
28:B3:6:VAL:HG12	28:B3:54:VAL:HG21	2.02	0.41
24:CY:268:GLN:O	24:CY:272:LYS:HB2	2.20	0.41
5:CE:13:ILE:HG23	5:CE:30:ALA:HB2	2.02	0.41
3:AC:22:TRP:CZ2	14:AN:54:PRO:HG2	2.56	0.41
35:DA:2827:C:O2	35:DA:2827:C:C2'	2.69	0.41
56:DX:63:LYS:O	56:DX:63:LYS:HG3	2.20	0.41
38:BD:206:LEU:O	38:BD:211:ARG:HD3	2.21	0.41
35:DA:833:U:H2'	35:DA:834:C:H6	1.83	0.41
49:DQ:40:ALA:HB3	49:DQ:127:ILE:HG21	2.03	0.41
41:DG:153:ARG:HG3	41:DG:153:ARG:HH11	1.84	0.41
34:B9:30:PRO:HB2	35:BA:2527:C:C5'	2.49	0.41
35:BA:228:A:H2'	35:BA:230:U:O4'	2.20	0.41
1:AA:452:A:O2'	1:AA:453:A:P	2.78	0.41
41:DG:55:LYS:O	41:DG:57:ALA:N	2.54	0.41
1:AA:1134:G:N2	1:AA:1141:C:C2	2.88	0.41
35:DA:228:A:H5'	35:DA:229:A:OP2	2.20	0.41
50:DR:40:LYS:HE3	50:DR:40:LYS:HB2	1.93	0.41
35:BA:2295:C:H2'	35:BA:2296:U:H6	1.85	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:144:ARG:O	2:CB:147:LYS:N	2.51	0.41
35:BA:2078:C:N3	35:BA:2079:U:C4	2.89	0.41
1:AA:236:G:H2'	1:AA:237:C:C6	2.55	0.41
35:DA:2403:C:N4	35:DA:2414:G:H1	2.17	0.41
35:DA:1227:G:OP1	53:DU:13:LYS:CD	2.68	0.41
22:AV:24:G:H1'	35:BA:1923:U:H5''	2.03	0.41
35:BA:372:G:N2	35:BA:400:G:H2'	2.35	0.41
48:BP:96:THR:O	48:BP:97:PRO:C	2.58	0.41
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.56	0.41
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.56	0.41
1:AA:1298:C:H4'	1:AA:1299:A:C4	2.56	0.41
35:DA:373:U:H2'	35:DA:374:A:C8	2.56	0.41
2:AB:235:SER:C	2:AB:237:ALA:H	2.24	0.41
36:DB:88:C:H2'	36:DB:89:G:O4'	2.20	0.41
51:BS:41:ASP:C	51:BS:42:ASP:O	2.56	0.41
35:BA:1423:G:H2'	35:BA:1424:G:H8	1.86	0.41
49:DQ:26:TYR:C	49:DQ:26:TYR:CD1	2.94	0.41
1:CA:42:G:H2'	1:CA:43:C:H6	1.86	0.41
1:CA:178:C:O2'	1:CA:179:A:H5'	2.20	0.41
35:BA:894:C:O2'	35:BA:895:U:H5'	2.21	0.41
35:BA:258:G:O2'	35:BA:259:G:H5'	2.20	0.41
38:BD:78:LYS:O	38:BD:80:ALA:N	2.54	0.41
1:CA:19:C:H2'	1:CA:20:U:H6	1.86	0.41
1:AA:731:G:OP1	1:AA:766:A:H1'	2.19	0.41
38:BD:138:VAL:O	38:BD:138:VAL:HG13	2.19	0.41
6:AF:69:GLU:O	6:AF:72:VAL:HG12	2.21	0.41
35:DA:1120:G:H2'	35:DA:1121:C:C6	2.56	0.41
42:BH:35:VAL:O	42:BH:36:PRO:C	2.59	0.41
58:DZ:111:VAL:CG2	58:DZ:112:ARG:N	2.82	0.41
58:DZ:165:VAL:O	58:DZ:166:SER:C	2.59	0.41
35:DA:2419:U:H2'	35:DA:2420:C:C6	2.55	0.41
39:BE:18:ASP:OD1	52:BT:81:PRO:HG3	2.21	0.41
16:AP:6:LEU:HG	16:AP:19:ILE:CD1	2.50	0.41
16:AP:66:PRO:HB2	16:AP:70:ALA:CB	2.51	0.41
40:DF:18:ARG:HD3	40:DF:199:TRP:CZ3	2.54	0.41
24:AY:15:GLY:O	24:AY:19:ILE:N	2.51	0.41
24:AY:46:ARG:NE	35:BA:1067:A:O3'	2.48	0.41
35:DA:2308:G:HO2'	35:DA:2309:A:P	2.44	0.41
24:AY:37:SER:OG	24:AY:38:LEU:HD13	2.20	0.41
54:DV:39:LEU:O	54:DV:40:LEU:HB2	2.20	0.41
35:BA:271(L):U:H5''	35:BA:271(M):G:OP1	2.21	0.41
50:BR:10:LEU:HD22	50:BR:17:ARG:CD	2.47	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:5:TYR:HD2	9:CI:18:PHE:HD2	1.69	0.41
10:CJ:24:VAL:HG21	10:CJ:37:PRO:HG3	2.02	0.41
42:BH:96:ALA:HB1	42:BH:105:LEU:HA	2.03	0.41
35:DA:1177:A:H4'	35:DA:1178:C:H6	1.83	0.41
35:DA:783:A:H4'	35:DA:1779:U:O2	2.20	0.41
22:CW:11:C:O2'	22:CW:12:U:H5'	2.21	0.41
19:AS:43:GLU:O	19:AS:45:VAL:N	2.53	0.41
52:DT:78:LEU:O	52:DT:79:HIS:ND1	2.54	0.41
51:DS:26:LEU:O	51:DS:26:LEU:HD22	2.20	0.41
9:AI:50:LEU:C	9:AI:52:ALA:H	2.24	0.41
4:AD:92:VAL:O	4:AD:96:LEU:HD13	2.21	0.41
41:DG:2:PRO:HG2	41:DG:3:LEU:H	1.86	0.41
27:B2:5:GLU:O	27:B2:8:LYS:HB2	2.20	0.41
58:BZ:56:VAL:HG13	58:BZ:69:THR:O	2.21	0.41
2:AB:223:ILE:HG22	2:AB:226:ARG:NH2	2.36	0.41
12:CL:25:PRO:HD2	12:CL:98:TYR:OH	2.21	0.41
1:AA:957:U:O2	1:AA:959:A:H8	2.03	0.41
1:CA:355:C:H4'	1:CA:388:G:O2'	2.21	0.41
26:B1:61:ARG:HG2	26:B1:61:ARG:HH11	1.84	0.41
20:AT:57:ARG:NH1	20:AT:102:GLY:CA	2.82	0.41
35:DA:1210:A:C5'	35:DA:1211:U:H3'	2.41	0.41
38:DD:82:ILE:HG12	38:DD:92:ILE:O	2.21	0.41
1:CA:1324:A:O4'	1:CA:1362:C:H4'	2.21	0.41
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.50	0.41
20:CT:92:LEU:C	20:CT:94:ALA:N	2.74	0.41
35:BA:2810:A:C2'	39:BE:61:ARG:CZ	2.98	0.41
7:CG:15:ASP:O	7:CG:19:GLY:N	2.54	0.41
24:CY:45:ALA:O	24:CY:47:LYS:N	2.54	0.41
33:D8:48:PHE:CE2	35:DA:650:C:OP1	2.60	0.41
8:CH:4:ASP:OD2	8:CH:85:ARG:NH1	2.47	0.41
5:CE:6:PHE:CD2	5:CE:36:ASP:HB3	2.55	0.41
23:AX:18:A:C2'	23:AX:18:A:N3	2.84	0.41
1:CA:193:C:H2'	1:CA:194:C:C6	2.55	0.41
46:BN:43:THR:HB	46:BN:46:VAL:HG12	2.02	0.41
24:CY:92:GLU:O	24:CY:96:LYS:HE3	2.21	0.41
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.20	0.41
45:BK:10:LEU:HD12	45:BK:10:LEU:C	2.41	0.41
35:DA:2698:U:H2'	35:DA:2699:C:C6	2.55	0.41
35:BA:2136:C:H2'	35:BA:2137:C:C6	2.53	0.41
2:AB:177:ALA:O	2:AB:180:LEU:N	2.54	0.41
47:DO:115:VAL:HG13	47:DO:121:VAL:HG21	2.03	0.41
2:CB:105:PHE:O	2:CB:106:LYS:C	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:135:LYS:O	40:BF:136:THR:C	2.57	0.41
38:DD:155:LEU:CD1	38:DD:155:LEU:N	2.84	0.41
58:BZ:10:ARG:HD2	58:BZ:36:LYS:HD3	2.03	0.41
19:CS:52:TYR:HA	19:CS:56:GLN:O	2.20	0.41
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HG2	2.56	0.41
1:CA:1152:A:HO2'	1:CA:1153:C:H6	1.63	0.41
1:AA:474:G:H2'	1:AA:475:G:C8	2.54	0.41
5:AE:11:ILE:HG21	5:AE:105:VAL:HG22	2.03	0.41
36:DB:79:C:H2'	36:DB:80:U:O4'	2.21	0.41
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.21	0.41
21:CU:13:ILE:HA	21:CU:22:ARG:NH1	2.36	0.41
39:DE:25:VAL:HG13	39:DE:183:LEU:HD12	2.01	0.41
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	2.19	0.41
48:BP:99:LEU:HD23	48:BP:102:ARG:NH1	2.36	0.41
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.69	0.41
12:CL:30:ALA:HA	12:CL:31:PRO:HD3	1.86	0.41
4:CD:73:ARG:O	4:CD:77:ASN:ND2	2.54	0.41
50:BR:37:THR:OG1	50:BR:39:PRO:HD2	2.21	0.41
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.19	0.41
1:CA:861:G:O2'	1:CA:862:C:H5'	2.21	0.41
35:DA:2516:G:C5	35:DA:2517:C:C4	3.09	0.41
35:BA:1204:A:N1	35:BA:1241:A:H2	2.19	0.41
11:AK:13:GLN:HB3	11:AK:75:TYR:O	2.20	0.41
1:CA:1134:G:N2	1:CA:1141:C:C2	2.89	0.41
1:CA:1140:C:HO2'	1:CA:1141:C:P	2.44	0.41
57:BY:12:THR:O	57:BY:75:ILE:HG22	2.20	0.41
35:DA:581:C:H2'	35:DA:582:G:C8	2.56	0.41
1:CA:952:U:O2'	1:CA:953:G:H5'	2.21	0.41
1:AA:495:A:H4'	1:AA:496:A:O5'	2.19	0.41
39:DE:39:PRO:O	39:DE:43:GLY:HA2	2.21	0.41
43:BI:58:LEU:O	43:BI:61:ARG:N	2.53	0.41
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.20	0.41
35:BA:347:A:H2'	35:BA:348:G:C8	2.54	0.41
24:AY:160:PRO:HD3	24:AY:165:ASP:OD2	2.20	0.41
7:CG:27:ILE:HA	7:CG:30:ILE:CG1	2.51	0.41
1:CA:392:G:H5'	16:CP:12:LYS:HG3	2.01	0.41
35:DA:2777:G:H5''	35:DA:2778:A:H5'	2.01	0.41
1:CA:96:U:H2'	1:CA:97:G:C8	2.56	0.41
35:DA:2507:C:H2'	35:DA:2508:G:C8	2.55	0.41
37:BC:154:ARG:C	37:BC:156:ILE:N	2.74	0.41
47:DO:44:LYS:O	47:DO:45:GLU:HB3	2.21	0.41
1:CA:1494:G:O2'	1:CA:1495:U:H5'	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:CN:6:LEU:O	14:CN:10:ALA:N	2.54	0.41
35:DA:699:A:C2'	35:DA:700:G:H5'	2.50	0.41
35:DA:252:G:O2'	35:DA:253:C:H5'	2.20	0.41
35:BA:836:G:C5	35:BA:837:C:C4	3.09	0.41
35:DA:263:C:H2'	35:DA:264:C:O4'	2.21	0.41
49:DQ:48:GLU:O	49:DQ:50:ALA:N	2.54	0.41
4:CD:23:GLY:HA3	4:CD:113:SER:OG	2.20	0.41
37:BC:56:GLN:O	37:BC:57:ASN:HB2	2.20	0.41
50:DR:116:LEU:HA	50:DR:116:LEU:HD23	1.83	0.41
8:CH:41:ARG:O	8:CH:41:ARG:HG2	2.20	0.41
19:CS:37:ARG:HG3	19:CS:37:ARG:H	1.31	0.41
35:BA:419:C:H2'	35:BA:420:C:O4'	2.21	0.41
35:BA:699:A:C2'	35:BA:700:G:H5'	2.51	0.41
35:BA:1695:G:N2	35:BA:1696:G:C8	2.89	0.41
51:DS:35:ILE:C	51:DS:36:TYR:CD1	2.94	0.41
57:BY:98:VAL:O	57:BY:99:CYS:SG	2.74	0.41
22:AV:72:C:H3'	22:AV:72:C:C6	2.55	0.41
41:DG:174:GLU:C	41:DG:176:LEU:N	2.74	0.41
13:AM:72:ALA:O	13:AM:76:ALA:HB2	2.21	0.41
30:D5:51:TYR:HB3	30:D5:54:GLY:HA3	2.03	0.41
35:BA:1493:C:C2'	35:BA:1493:C:O2	2.67	0.41
48:DP:33:ARG:C	48:DP:34:GLY:O	2.57	0.41
24:AY:341:LEU:C	24:AY:343:ASP:N	2.74	0.41
24:AY:341:LEU:HB3	24:AY:345:ILE:HD11	2.02	0.41
40:DF:18:ARG:C	40:DF:19:GLU:CD	2.80	0.41
40:DF:9:ILE:O	40:DF:10:PRO:O	2.39	0.41
35:BA:1093:G:C2'	35:BA:1094:U:H5'	2.51	0.41
41:DG:39:ILE:HG22	41:DG:157:ILE:HB	2.02	0.41
58:BZ:108:PRO:O	58:BZ:109:ALA:O	2.38	0.41
18:AR:21:LYS:HZ2	18:AR:57:GLY:N	2.18	0.41
41:BG:139:LEU:O	41:BG:141:PHE:N	2.53	0.41
41:BG:76:SER:CA	41:BG:83:ARG:HB2	2.42	0.41
41:BG:5:VAL:O	41:BG:6:ALA:O	2.39	0.41
24:AY:38:LEU:HB2	24:AY:40:ASN:HD21	1.86	0.41
35:DA:1495:A:H2'	35:DA:1495:A:N3	2.35	0.41
35:DA:2287:A:O2'	35:DA:2288:A:H3'	2.20	0.41
25:D0:41:ARG:HD3	25:D0:44:ARG:HD3	2.02	0.41
35:DA:360:G:O2'	35:DA:361:G:H5'	2.21	0.41
42:BH:94:TYR:CA	42:BH:107:VAL:HG12	2.36	0.41
48:BP:41:ARG:HH22	48:BP:45:LEU:HG	1.85	0.41
35:BA:1899:G:O2'	35:BA:1900:A:OP2	2.35	0.41
35:BA:1175:U:O5'	35:BA:1176:G:H5'	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:13:ARG:NH1	52:DT:15:VAL:HG22	2.36	0.41
9:CI:91:ASP:C	9:CI:92:TYR:HD1	2.24	0.41
9:CI:55:ALA:O	9:CI:57:GLY:N	2.54	0.41
9:CI:78:LYS:CB	9:CI:78:LYS:NZ	2.84	0.41
41:DG:173:LEU:CD2	41:DG:178:PHE:HE2	2.34	0.41
31:B6:18:ARG:NH2	31:B6:43:CYS:O	2.51	0.41
37:DC:72:VAL:HG21	37:DC:160:ARG:O	2.21	0.41
37:DC:83:ILE:HG22	37:DC:83:ILE:O	2.20	0.41
35:DA:1899:G:N2	35:DA:1902:C:C5	2.89	0.41
5:AE:70:PRO:O	5:AE:77:PRO:HD3	2.21	0.41
24:AY:227:LEU:O	24:AY:254:LEU:HD11	2.21	0.41
35:BA:783:A:C8	35:BA:784:A:H4'	2.55	0.41
52:DT:35:LYS:O	52:DT:37:GLY:N	2.54	0.41
51:DS:26:LEU:HG	51:DS:39:ILE:HD11	2.03	0.41
51:DS:93:LYS:CG	51:DS:93:LYS:O	2.68	0.41
51:BS:17:ARG:O	51:BS:18:ILE:HB	2.20	0.41
24:CY:51:GLU:CA	24:CY:54:ARG:NH2	2.70	0.41
9:AI:53:VAL:C	9:AI:55:ALA:N	2.74	0.41
1:AA:1126:U:C2'	1:AA:1127:G:H5'	2.50	0.41
60:DI:32:PRO:C	60:DI:34:GLY:H	2.23	0.41
35:DA:2166:G:N2	35:DA:2172:U:O4	2.52	0.41
27:D2:59:ARG:O	27:D2:62:THR:N	2.54	0.41
32:B7:47:ARG:O	32:B7:48:LYS:HD3	2.21	0.41
39:DE:110:GLY:O	50:DR:2:ARG:CZ	2.69	0.41
32:B7:12:ARG:HD3	32:B7:46:VAL:CG2	2.50	0.41
42:DH:45:VAL:O	42:DH:46:GLU:C	2.59	0.41
2:CB:187:LEU:HD23	2:CB:201:ILE:HG22	2.03	0.41
2:CB:220:ASP:O	2:CB:223:ILE:HG12	2.21	0.41
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.32	0.41
2:AB:204:ASN:HD22	2:AB:207:ALA:HB3	1.86	0.41
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.04	0.41
42:DH:30:LYS:NZ	42:DH:81:GLU:HG2	2.36	0.41
35:BA:1018:C:H2'	35:BA:1019:U:H6	1.86	0.41
39:BE:1:MET:O	39:BE:2:LYS:C	2.59	0.41
8:AH:4:ASP:HA	8:AH:5:PRO:HD3	1.92	0.41
22:AW:8:U:H1'	22:AW:48:C:O2	2.21	0.41
39:DE:88:GLY:O	39:DE:89:ASP:CB	2.69	0.41
22:CW:7:A:H2'	22:CW:49:C:OP2	2.20	0.41
10:CJ:16:LEU:C	10:CJ:18:ALA:N	2.73	0.41
49:DQ:112:GLU:CG	49:DQ:113:GLN:N	2.84	0.41
1:CA:402:G:C6	1:CA:403:C:C4	3.08	0.41
1:CA:402:G:O2'	1:CA:403:C:H5'	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:16:ARG:HD3	52:BT:17:THR:N	2.35	0.41
1:AA:402:G:C6	1:AA:403:C:C4	3.08	0.41
39:DE:181:LEU:HD23	52:DT:11:GLU:OE2	2.21	0.41
13:AM:28:ALA:C	13:AM:30:ALA:H	2.24	0.41
35:DA:94:C:O2	35:DA:94:C:H2'	2.20	0.41
35:DA:819:A:C4	35:DA:1189:A:C2	3.08	0.41
35:BA:1684:C:H2'	35:BA:1685:C:C6	2.56	0.41
35:BA:2892:A:H3'	35:BA:2893:G:C4'	2.51	0.41
35:BA:2892:A:N7	35:BA:2893:G:H1'	2.36	0.41
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	2.02	0.41
35:DA:649:G:H2'	35:DA:650:C:C6	2.56	0.41
8:CH:85:ARG:NH1	8:CH:85:ARG:HG3	2.35	0.41
55:BW:29:LEU:O	55:BW:33:ARG:HG3	2.21	0.41
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.44	0.41
1:CA:692:U:H2'	1:CA:694:A:OP2	2.21	0.41
3:AC:138:VAL:C	3:AC:140:ARG:N	2.73	0.41
26:D1:52:ARG:O	26:D1:53:VAL:O	2.39	0.41
58:BZ:80:ARG:HG3	58:BZ:80:ARG:NH1	2.35	0.41
3:AC:6:HIS:CB	14:AN:49:HIS:HB3	2.51	0.41
16:CP:9:PHE:HB3	16:CP:10:GLY:H	1.70	0.41
16:AP:20:VAL:HG23	16:AP:35:LYS:HA	2.03	0.41
7:AG:78:ARG:HG3	7:AG:79:ARG:N	2.36	0.41
7:AG:76:ARG:HB2	7:AG:89:MET:SD	2.61	0.41
1:CA:519:C:C2'	1:CA:520:A:H5'	2.50	0.41
42:BH:54:ARG:HB2	42:BH:55:PRO:HD2	2.03	0.41
35:BA:2883:A:H5'	35:BA:2884:U:H5'	2.02	0.41
1:AA:639:G:O2'	1:AA:640:A:H5'	2.21	0.41
45:DK:100:THR:O	45:DK:104:VAL:HG12	2.20	0.41
45:DK:104:VAL:HG13	45:DK:105:LEU:N	2.36	0.41
13:CM:40:ASN:OD1	13:CM:41:PRO:HD2	2.21	0.41
20:CT:24:LEU:O	20:CT:25:ARG:C	2.59	0.41
13:AM:40:ASN:HA	13:AM:41:PRO:HD3	1.86	0.41
13:AM:45:VAL:HG12	13:AM:45:VAL:O	2.20	0.41
2:CB:69:LEU:HD22	2:CB:159:PRO:HG2	2.02	0.41
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	2.01	0.41
1:CA:636:U:H2'	1:CA:637:G:H8	1.85	0.41
10:AJ:31:GLY:HA3	10:AJ:78:ASN:CG	2.41	0.41
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	2.02	0.41
3:AC:91:LEU:HD11	3:AC:101:LEU:HD12	2.03	0.41
1:CA:1375:A:H2'	1:CA:1376:U:H6	1.86	0.41
3:CC:15:THR:CG2	3:CC:181:ASN:N	2.78	0.41
35:BA:984:A:H5''	35:BA:985:C:H5	1.85	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:102:G:O2'	1:CA:151:A:N3	2.41	0.41
1:CA:101:A:C5	1:CA:102:G:N7	2.89	0.41
6:AF:19:LEU:HD23	6:AF:23:LYS:HG3	2.02	0.41
35:BA:644:A:C2	35:BA:646:A:C4	3.09	0.41
10:AJ:74:ILE:HG13	10:AJ:74:ILE:O	2.21	0.41
7:CG:155:ARG:O	7:CG:156:TRP:O	2.39	0.41
6:AF:50:TYR:CE2	6:AF:52:ILE:HD11	2.56	0.41
43:BI:29:TYR:O	43:BI:30:LEU:O	2.38	0.41
26:B1:67:ILE:O	26:B1:68:PRO:C	2.59	0.41
39:BE:63:LEU:O	39:BE:63:LEU:HD23	2.21	0.41
40:DF:165:ARG:NH1	40:DF:165:ARG:HG3	2.36	0.41
2:AB:11:LEU:HD12	2:AB:217:ARG:CZ	2.50	0.41
35:DA:691:C:O4'	38:DD:43:ARG:NH2	2.54	0.41
45:BK:38:VAL:O	45:BK:42:ASN:ND2	2.54	0.41
20:CT:72:LEU:O	20:CT:76:ALA:HB3	2.21	0.41
1:AA:1505:G:H4'	1:AA:1506:U:H5'	2.03	0.41
39:BE:65:GLY:HA2	39:BE:70:ALA:HB1	2.01	0.41
35:BA:1472:A:H61	35:BA:1519:G:C2'	2.33	0.41
1:AA:1267:C:O2	1:AA:1327:C:H4'	2.20	0.41
18:AR:86:VAL:HG12	18:AR:87:ARG:N	2.35	0.41
44:DJ:8:UNK:C	44:DJ:10:UNK:N	2.81	0.41
53:BU:111:GLU:OE2	53:BU:111:GLU:HA	2.21	0.41
5:AE:15:ARG:HG2	5:AE:26:PHE:HD2	1.86	0.41
5:AE:15:ARG:CZ	5:AE:26:PHE:HE2	2.33	0.41
33:D8:29:LYS:HD3	33:D8:44:LYS:CB	2.51	0.41
35:DA:1484:G:N3	35:DA:1484:G:H2'	2.36	0.41
18:CR:86:VAL:O	18:CR:87:ARG:C	2.58	0.41
27:B2:11:GLU:HG3	27:B2:12:GLU:N	2.35	0.41
27:B2:12:GLU:O	27:B2:16:LEU:HG	2.21	0.41
35:DA:2025:C:H2'	35:DA:2026:C:C6	2.56	0.41
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.85	0.41
38:BD:70:TRP:CD1	38:BD:70:TRP:C	2.95	0.41
35:BA:1497:U:C2'	35:BA:1497:U:O2	2.62	0.41
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.28	0.41
37:DC:64:LEU:HA	37:DC:65:PRO:HD2	1.91	0.41
12:AL:30:ALA:HA	12:AL:31:PRO:HD3	1.86	0.41
49:DQ:19:GLY:O	49:DQ:20:ALA:HB3	2.21	0.41
1:AA:488:C:O2'	1:AA:489:C:H5'	2.21	0.41
41:DG:90:LEU:HA	41:DG:90:LEU:HD23	1.89	0.41
20:AT:38:LYS:HA	20:AT:41:ILE:CG1	2.51	0.41
28:D3:15:TYR:HD2	28:D3:19:GLN:HE22	1.69	0.41
35:BA:639:U:H2'	35:BA:640:C:C6	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:820:A:N3	35:DA:943:U:H4'	2.36	0.41
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.51	0.41
39:DE:79:ARG:HG2	39:DE:79:ARG:HH11	1.86	0.41
1:CA:452:A:O2'	1:CA:453:A:P	2.79	0.41
16:AP:39:TYR:CD1	16:AP:73:LEU:HD13	2.56	0.41
4:CD:79:PHE:CD2	4:CD:79:PHE:C	2.94	0.41
1:AA:66:G:N3	1:AA:66:G:H2'	2.36	0.41
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.56	0.41
24:CY:103:HIS:O	24:CY:104:GLN:NE2	2.54	0.41
1:CA:829:G:H2'	1:CA:830:G:C8	2.54	0.41
35:BA:412:A:C2'	35:BA:413:C:H5'	2.50	0.41
49:DQ:32:TYR:CZ	49:DQ:133:ARG:HD3	2.55	0.41
35:BA:2340:G:H2'	35:BA:2341:G:H8	1.86	0.41
1:CA:243:A:C2	1:CA:246:A:C8	3.09	0.41
1:CA:677:U:H2'	1:CA:678:U:C6	2.56	0.41
3:CC:95:THR:HG21	3:CC:97:LYS:HD2	2.03	0.41
35:BA:557:U:O2	46:BN:45:ASN:HB2	2.21	0.41
35:BA:1782:C:O2'	35:BA:1783:A:C5'	2.68	0.41
3:AC:95:THR:HG21	3:AC:97:LYS:HD2	2.03	0.41
2:AB:16:HIS:N	2:AB:16:HIS:ND1	2.68	0.41
2:CB:16:HIS:HB3	2:CB:210:SER:OG	2.20	0.41
12:CL:117:ARG:NH2	12:CL:124:LYS:HA	2.35	0.41
38:BD:231:HIS:ND1	38:BD:232:PRO:CD	2.83	0.41
1:CA:888:G:H4'	1:CA:1488:G:O2'	2.21	0.41
21:AU:25:LYS:HB2	21:AU:25:LYS:NZ	2.36	0.41
40:BF:107:LYS:C	40:BF:109:GLY:N	2.71	0.41
35:BA:1426:G:C6	35:BA:1427:A:C6	3.09	0.41
1:AA:505:G:H2'	1:AA:506:G:H8	1.84	0.41
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.56	0.41
35:DA:611:C:H6	35:DA:611:C:O5'	2.03	0.41
49:DQ:26:TYR:O	49:DQ:26:TYR:CD1	2.73	0.41
7:AG:27:ILE:HA	7:AG:30:ILE:CG1	2.51	0.41
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.20	0.41
17:CQ:22:LEU:HD11	17:CQ:39:SER:CB	2.51	0.41
35:BA:306:U:O2'	35:BA:307:G:H5'	2.20	0.41
25:D0:73:GLY:O	25:D0:75:LEU:N	2.47	0.41
37:DC:154:ARG:C	37:DC:156:ILE:N	2.73	0.41
1:AA:96:U:H2'	1:AA:97:G:H8	1.84	0.41
35:DA:1034:G:C5	35:DA:1035:U:C5	3.09	0.41
1:CA:539:A:H2'	1:CA:540:G:H8	1.86	0.41
35:BA:431:U:O2'	35:BA:432:A:H5'	2.20	0.41
35:DA:372:G:N2	35:DA:400:G:H2'	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:188:C:O2'	1:AA:189:G:H5'	2.20	0.41
13:CM:77:ASN:O	13:CM:80:ARG:HB3	2.21	0.41
35:DA:792:G:H5''	35:DA:793:A:H5'	2.03	0.41
35:DA:1446:C:H2'	35:DA:1447:G:H8	1.86	0.41
58:DZ:5:LEU:HG	58:DZ:6:LYS:N	2.36	0.41
35:BA:970:C:H2'	35:BA:971:C:C6	2.55	0.41
35:BA:2321:G:N3	35:BA:2321:G:H2'	2.35	0.41
48:BP:149:GLU:OE1	48:BP:149:GLU:HA	2.21	0.41
41:DG:147:ASP:OD1	41:DG:148:MET:N	2.54	0.41
35:DA:1764:G:O2'	35:DA:1765:C:H5'	2.20	0.41
38:BD:6:PHE:HE1	38:BD:18:VAL:HG12	1.85	0.41
35:DA:317:G:C6	35:DA:318:C:C4	3.09	0.41
35:DA:1042:G:H2'	35:DA:1043:C:O4'	2.21	0.41
26:D1:75:GLU:OE2	60:DI:43:ASN:ND2	2.50	0.41
34:B9:4:ARG:HB2	35:BA:2466:C:OP1	2.21	0.41
35:DA:45:C:O2'	35:DA:47:C:H5'	2.21	0.41
16:AP:60:LEU:HD23	16:AP:60:LEU:HA	1.90	0.41
7:CG:60:LYS:HD2	7:CG:60:LYS:HA	1.90	0.41
57:DY:84:ARG:HH22	57:DY:97:ARG:NE	2.18	0.41
58:DZ:53:ILE:N	58:DZ:53:ILE:HD12	2.31	0.41
31:D6:24:GLU:HB3	31:D6:25:LYS:H	1.60	0.41
52:BT:85:LYS:HE3	52:BT:85:LYS:HB3	1.91	0.41
48:BP:32:THR:O	48:BP:33:ARG:CB	2.69	0.41
28:D3:4:LEU:O	28:D3:6:VAL:N	2.54	0.41
58:BZ:152:ALA:CB	58:BZ:167:PRO:HG2	2.39	0.41
33:D8:2:PRO:HA	35:DA:591:C:H1'	2.03	0.41
33:D8:2:PRO:O	33:D8:3:LYS:HB3	2.20	0.41
24:AY:88:LYS:N	24:AY:89:PRO:CD	2.84	0.41
16:CP:66:PRO:HG2	16:CP:71:ARG:HB3	2.03	0.41
16:CP:71:ARG:NH1	16:CP:71:ARG:CB	2.84	0.41
59:D4:52:SER:HB3	41:DG:143:GLU:CD	2.42	0.41
52:DT:31:SER:HB3	52:DT:43:GLN:O	2.21	0.41
54:DV:5:VAL:HG21	54:DV:35:LEU:HB3	2.03	0.41
56:DX:11:PRO:HA	56:DX:28:PHE:CB	2.30	0.41
57:BY:28:LYS:O	57:BY:38:ILE:HB	2.20	0.41
57:BY:9:LYS:CG	57:BY:10:GLY:N	2.85	0.41
1:CA:1130:A:C2	1:CA:1146:A:C5	3.09	0.41
9:CI:80:GLY:O	9:CI:84:ALA:N	2.54	0.41
9:CI:50:LEU:HD21	9:CI:81:ILE:CG2	2.51	0.41
10:CJ:6:ILE:CG2	10:CJ:98:ILE:HG13	2.52	0.41
31:D6:19:ARG:N	31:D6:19:ARG:CD	2.84	0.41
31:D6:19:ARG:N	31:D6:19:ARG:HD2	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:18:LEU:CD1	54:DV:19:LYS:H	2.34	0.41
46:DN:15:LEU:HD13	46:DN:16:ILE:N	2.36	0.41
35:BA:2173:A:H3'	35:BA:2174:C:C6	2.56	0.41
57:DY:25:GLY:HA3	57:DY:39:VAL:CG1	2.51	0.41
60:DI:133:HIS:NE2	60:DI:135:GLU:HG2	2.36	0.41
35:DA:2127:G:H5'	37:DC:36:LYS:HE2	2.03	0.41
27:D2:2:LYS:CG	27:D2:3:LEU:N	2.80	0.41
27:B2:2:LYS:HA	27:B2:2:LYS:HZ3	1.85	0.41
2:CB:31:TYR:N	2:CB:31:TYR:CD2	2.88	0.41
58:BZ:8:TYR:HB3	58:BZ:38:TYR:CE2	2.56	0.41
36:DB:94:C:H2'	36:DB:95:C:C6	2.56	0.41
36:DB:95:C:C2	36:DB:96:U:C5	3.09	0.41
1:CA:878:G:C5'	8:CH:89:PRO:HG2	2.36	0.41
39:BE:3:GLY:C	39:BE:4:ILE:HG22	2.41	0.41
22:CW:55:U:C5	22:CW:57:G:H5''	2.56	0.41
57:DY:56:PRO:C	57:DY:57:GLN:HG3	2.41	0.41
47:BO:75:SER:HB2	52:BT:75:ILE:O	2.21	0.41
19:CS:6:LYS:CG	19:CS:7:LYS:HE3	2.50	0.41
38:DD:131:LEU:HD11	38:DD:136:ILE:HG12	2.02	0.41
35:DA:2808:U:H2'	35:DA:2809:A:C5'	2.50	0.41
35:DA:2811:G:C2'	35:DA:2812:G:H5'	2.51	0.41
11:CK:44:SER:H	11:CK:47:VAL:CG2	2.34	0.41
34:D9:15:LYS:HZ1	35:DA:2753:A:H1'	1.85	0.41
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.21	0.41
4:AD:179:GLU:C	4:AD:181:MET:H	2.24	0.41
60:DI:111:PRO:CG	60:DI:112:LYS:H	2.26	0.41
5:CE:105:VAL:C	5:CE:107:ARG:N	2.73	0.41
22:AV:36:A:C2	23:AX:20:U:O2	2.74	0.41
35:DA:39:C:O2	40:DF:46:ARG:NH2	2.54	0.41
35:BA:234:C:H2'	35:BA:235:U:C6	2.56	0.41
46:DN:43:THR:HB	46:DN:46:VAL:HG12	2.03	0.41
22:AV:62:C:O2	22:AV:62:C:C2'	2.68	0.41
11:CK:24:SER:OG	11:CK:25:TYR:N	2.53	0.41
49:DQ:69:PHE:CD1	49:DQ:70:PRO:HD2	2.57	0.41
7:CG:118:VAL:HG23	7:CG:119:ARG:H	1.86	0.41
45:DK:10:LEU:HD22	45:DK:26:ALA:HB1	2.02	0.41
26:D1:52:ARG:NH1	35:DA:2218:U:O2'	2.53	0.41
39:BE:116:VAL:HG22	39:BE:117:MET:N	2.34	0.41
1:CA:624:C:O2'	16:CP:10:GLY:HA2	2.21	0.41
2:AB:100:GLY:O	2:AB:104:ASN:C	2.59	0.41
12:CL:42:THR:OG1	12:CL:52:LEU:HB3	2.21	0.41
11:CK:21:ILE:HD13	11:CK:84:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:84:VAL:CG1	11:CK:95:ILE:HD11	2.51	0.41
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.20	0.41
35:DA:769:G:H5'	35:DA:1379:A:N6	2.36	0.41
35:DA:601:C:O2	35:DA:605:C:H4'	2.20	0.41
13:AM:81:LEU:O	13:AM:89:GLY:HA3	2.20	0.41
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.86	0.41
1:CA:691:G:O2'	1:CA:797:C:H4'	2.21	0.41
35:BA:601:C:C5'	40:BF:108:LYS:HZ2	2.34	0.41
1:AA:1456:G:H2'	1:AA:1457:G:H5'	2.02	0.41
10:CJ:59:SER:OG	10:CJ:59:SER:O	2.38	0.41
48:BP:75:ILE:O	48:BP:77:ARG:HG3	2.20	0.41
1:AA:560:U:O2'	1:AA:561:U:OP2	2.27	0.41
42:BH:154:PRO:O	42:BH:155:SER:HB3	2.20	0.41
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.21	0.41
18:CR:86:VAL:HG12	18:CR:87:ARG:N	2.36	0.41
39:DE:97:LYS:O	39:DE:98:PRO:C	2.60	0.41
1:CA:1170:A:H2'	1:CA:1171:G:H5'	2.03	0.41
35:BA:1570:A:C6	35:BA:1571:A:C6	3.09	0.41
35:DA:1241:A:H2'	35:DA:1242:A:O5'	2.21	0.41
1:CA:274:A:C4'	1:CA:275:G:OP1	2.69	0.41
25:D0:20:ARG:NH1	35:DA:2271:G:H5''	2.36	0.41
35:DA:470:A:H5'	35:DA:470:A:C8	2.53	0.41
1:CA:848:C:H2'	1:CA:849:C:H6	1.85	0.41
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.21	0.41
3:CC:126:ARG:HB3	3:CC:128:PHE:CE1	2.56	0.41
35:BA:301:G:C6	35:BA:317:G:C5	3.08	0.41
15:CO:36:ILE:HG22	15:CO:37:ASN:N	2.36	0.41
15:CO:37:ASN:N	15:CO:37:ASN:HD22	2.17	0.41
35:DA:1586:A:C8	35:DA:1587:A:H1'	2.56	0.41
35:BA:1544:A:C2	35:BA:1545:A:C2	3.08	0.41
1:CA:1187:G:O5'	9:CI:113:LYS:HE2	2.21	0.41
2:CB:235:SER:C	2:CB:237:ALA:H	2.24	0.41
55:DW:68:ARG:O	55:DW:109:GLU:HA	2.21	0.41
1:AA:801:U:H2'	1:AA:802:A:H8	1.86	0.41
50:BR:103:ARG:HB3	50:BR:110:PRO:HA	2.03	0.41
36:BB:111:G:O2'	36:BB:112:U:H5'	2.21	0.41
25:D0:71:ASP:O	25:D0:73:GLY:N	2.49	0.41
35:BA:585:G:H2'	35:BA:1251:C:H42	1.85	0.41
38:DD:122:ASP:O	38:DD:123:ALA:C	2.59	0.41
58:BZ:134:PRO:O	58:BZ:136:PHE:N	2.53	0.41
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.21	0.41
1:CA:1425:U:H2'	1:CA:1426:C:H6	1.85	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2070:G:C2	35:DA:2442:C:C2	3.09	0.41
56:DX:73:ARG:HB3	56:DX:74:PRO:HD2	2.03	0.41
3:AC:21:ARG:H	3:AC:21:ARG:HG2	1.77	0.41
24:CY:340:ASP:O	24:CY:342:MET:N	2.54	0.41
11:AK:61:ALA:CB	11:AK:90:GLY:HA3	2.51	0.41
44:DJ:125:UNK:C	44:DJ:127:UNK:N	2.84	0.41
58:DZ:48:PHE:CE2	58:DZ:71:VAL:HG21	2.56	0.40
33:B8:32:LEU:O	33:B8:33:ASN:C	2.59	0.40
33:D8:36:LYS:O	33:D8:37:SER:O	2.39	0.40
58:BZ:166:SER:OG	58:BZ:167:PRO:HA	2.21	0.40
35:DA:2308:G:N2	41:DG:79:ASN:CG	2.74	0.40
24:CY:15:GLY:O	24:CY:16:TYR:C	2.60	0.40
29:B4:51:TYR:CE2	41:BG:2:PRO:HD3	2.55	0.40
35:BA:2308:G:C2	35:BA:2309:A:C6	3.09	0.40
41:BG:12:TYR:O	41:BG:13:GLU:C	2.59	0.40
41:BG:141:PHE:HA	41:BG:142:PRO:HD3	1.98	0.40
41:BG:6:ALA:O	41:BG:8:LYS:N	2.54	0.40
54:DV:37:VAL:HG23	54:DV:37:VAL:O	2.21	0.40
35:DA:2206:G:N3	35:DA:2206:G:H3'	2.37	0.40
38:BD:111:LEU:HD13	38:BD:115:GLN:OE1	2.21	0.40
5:CE:90:VAL:HG23	5:CE:121:LYS:HB3	1.98	0.40
10:CJ:37:PRO:O	10:CJ:39:PRO:HD3	2.21	0.40
24:CY:37:SER:O	24:CY:39:TRP:CE3	2.74	0.40
56:BX:12:VAL:HG13	56:BX:17:ALA:HB1	2.03	0.40
25:B0:63:VAL:HG23	25:B0:63:VAL:O	2.21	0.40
35:BA:2166:G:N2	35:BA:2172:U:O4	2.51	0.40
35:BA:2162:G:H1'	35:BA:2173:A:H1'	2.03	0.40
51:BS:89:ARG:HH11	51:BS:92:TYR:CA	2.14	0.40
60:DI:69:LYS:HE2	60:DI:136:VAL:CG1	2.51	0.40
48:BP:62:LEU:CD1	48:BP:62:LEU:N	2.71	0.40
46:DN:31:ALA:O	46:DN:32:THR:C	2.60	0.40
40:BF:66:PRO:O	40:BF:67:GLN:CB	2.53	0.40
2:CB:75:LYS:HA	2:CB:78:GLN:HE21	1.86	0.40
56:BX:30:VAL:CG1	56:BX:31:HIS:N	2.72	0.40
8:AH:1:MET:H2	8:AH:1:MET:HE2	1.86	0.40
8:AH:88:LYS:HB2	8:AH:88:LYS:NZ	2.37	0.40
1:AA:373:A:C2	1:AA:482:A:N6	2.89	0.40
58:DZ:146:ILE:CG1	58:DZ:147:GLY:H	2.20	0.40
20:AT:104:LEU:HD23	20:AT:106:ALA:N	2.35	0.40
5:AE:107:ARG:C	5:AE:109:ILE:H	2.24	0.40
1:CA:1456:G:O2'	1:CA:1457:G:H5'	2.21	0.40
4:CD:123:HIS:C	4:CD:125:HIS:H	2.25	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:150:GLU:H	4:AD:150:GLU:CD	2.24	0.40
33:D8:21:LYS:HD3	33:D8:48:PHE:CE1	2.56	0.40
14:AN:22:THR:HG22	14:AN:33:VAL:CG1	2.51	0.40
60:DI:72:LEU:HD21	60:DI:107:ILE:CG1	2.43	0.40
54:BV:62:LEU:HD22	54:BV:62:LEU:N	2.36	0.40
49:DQ:47:ILE:CD1	49:DQ:70:PRO:HD3	2.50	0.40
2:AB:111:ARG:NH1	2:AB:111:ARG:HG2	2.37	0.40
35:BA:1270:C:H5''	35:BA:1271:G:H5'	2.03	0.40
26:B1:29:GLY:C	26:B1:31:GLY:N	2.71	0.40
2:AB:166:ASP:HA	2:AB:167:PRO:HD2	1.79	0.40
36:DB:8:U:H5'	36:DB:8:U:C6	2.44	0.40
40:DF:132:VAL:O	40:DF:133:ASN:O	2.39	0.40
50:BR:81:ASP:O	50:BR:82:GLU:CB	2.62	0.40
35:DA:118:A:OP2	35:DA:119:A:H2'	2.21	0.40
1:AA:1060:C:H5'	14:AN:45:ARG:HH22	1.80	0.40
24:AY:302:VAL:HB	24:AY:303:GLU:H	1.66	0.40
7:CG:75:VAL:CG1	7:CG:145:ALA:HA	2.51	0.40
11:AK:33:THR:HG22	11:AK:39:PRO:CA	2.46	0.40
2:CB:12:GLU:HB3	2:CB:44:LEU:HD23	2.03	0.40
16:CP:77:ALA:O	16:CP:78:GLY:O	2.39	0.40
35:BA:2494:G:O2'	49:BQ:80:GLU:HA	2.21	0.40
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.33	0.40
35:DA:2862:G:C5	35:DA:2863:C:C5	3.09	0.40
3:AC:3:ASN:N	3:AC:3:ASN:OD1	2.54	0.40
17:AQ:46:ASP:OD2	17:AQ:50:LYS:HG2	2.21	0.40
4:AD:79:PHE:CE1	4:AD:204:ILE:HD13	2.56	0.40
4:CD:179:GLU:C	4:CD:181:MET:H	2.25	0.40
25:D0:20:ARG:NH1	35:DA:2271:G:C5'	2.83	0.40
25:D0:20:ARG:HG3	35:DA:2356:C:H4'	2.02	0.40
12:CL:61:THR:C	12:CL:63:GLY:N	2.74	0.40
1:AA:453:A:O2'	1:AA:454:C:H6	2.00	0.40
11:AK:114:VAL:HG21	18:AR:49:LYS:HZ1	1.86	0.40
1:AA:1396:A:H4'	1:AA:1398:A:O4'	2.21	0.40
35:BA:1804:C:O2'	35:BA:1805:U:H5'	2.21	0.40
3:CC:95:THR:C	3:CC:97:LYS:H	2.24	0.40
35:BA:1085:A:O2'	35:BA:1086:A:H5'	2.21	0.40
35:BA:558:G:OP2	46:BN:111:PRO:HD2	2.21	0.40
34:B9:19:ARG:O	34:B9:19:ARG:HG3	2.21	0.40
35:DA:1109:C:O2	35:DA:1109:C:C2'	2.69	0.40
35:DA:465:G:C6	35:DA:466:A:N6	2.89	0.40
55:DW:86:LEU:HD12	55:DW:87:PRO:N	2.36	0.40
58:DZ:11:GLU:HB2	58:DZ:12:GLY:H	1.64	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:577:G:C4	1:AA:816:A:C2	3.09	0.40
43:BI:105:HIS:C	43:BI:107:VAL:N	2.74	0.40
17:AQ:80:GLY:O	17:AQ:82:MET:N	2.51	0.40
46:BN:51:PHE:HA	46:BN:119:ARG:O	2.21	0.40
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.57	0.40
18:AR:33:ASP:HB3	18:AR:36:ASN:ND2	2.36	0.40
1:CA:1084:G:C5	1:CA:1085:U:C4	3.10	0.40
25:B0:46:LYS:O	25:B0:78:TYR:HA	2.21	0.40
37:DC:18:LYS:O	37:DC:19:VAL:CB	2.69	0.40
55:BW:107:LEU:HA	55:BW:107:LEU:HD12	1.87	0.40
58:DZ:64:GLY:O	58:DZ:65:GLN:C	2.60	0.40
41:BG:170:ARG:O	41:BG:171:ALA:C	2.60	0.40
1:AA:802:A:C2'	1:AA:803:G:H5'	2.51	0.40
3:CC:121:ALA:O	3:CC:125:GLU:HG3	2.21	0.40
36:BB:111:G:C2'	36:BB:112:U:H5'	2.51	0.40
24:AY:241:GLY:O	24:AY:243:ASN:N	2.54	0.40
35:BA:2658:C:N4	35:BA:2664:G:N2	2.69	0.40
12:AL:7:ILE:O	12:AL:11:VAL:HG23	2.20	0.40
45:BK:3:LYS:HG2	45:BK:4:VAL:N	2.35	0.40
39:DE:115:GLY:HA2	39:DE:157:ALA:HB1	2.03	0.40
58:DZ:140:ASP:OD2	58:DZ:140:ASP:O	2.39	0.40
35:DA:504:U:O4'	35:DA:504:U:O2	2.35	0.40
35:DA:1855:G:O2'	35:DA:1856:G:H5'	2.22	0.40
57:BY:97:ARG:NH1	57:BY:98:VAL:HG23	2.36	0.40
41:DG:19:LEU:C	41:DG:21:ARG:N	2.70	0.40
52:BT:27:THR:HG23	52:BT:28:VAL:H	1.86	0.40
30:D5:46:CYS:HA	30:D5:47:PRO:HD2	1.77	0.40
60:DI:144:VAL:HG12	60:DI:145:VAL:O	2.20	0.40
28:D3:6:VAL:CG1	28:D3:28:LEU:HD11	2.50	0.40
40:DF:13:SER:HA	40:DF:14:PRO:HD3	1.95	0.40
24:AY:49:SER:O	24:AY:52:ALA:HB3	2.21	0.40
25:B0:40:GLN:NE2	25:B0:59:LEU:HG	2.36	0.40
41:BG:6:ALA:HB3	41:BG:104:GLU:OE1	2.21	0.40
41:BG:67:LYS:H	41:BG:67:LYS:HD3	1.85	0.40
24:AY:41:ASP:O	24:AY:42:PRO:C	2.60	0.40
24:AY:45:ALA:O	24:AY:48:VAL:HG22	2.21	0.40
53:DU:62:ILE:CD1	53:DU:93:LYS:HG2	2.51	0.40
53:DU:92:ARG:HH11	54:DV:11:GLN:H	1.64	0.40
54:DV:39:LEU:HA	54:DV:47:VAL:CG2	2.51	0.40
48:DP:136:GLU:O	48:DP:137:LYS:C	2.59	0.40
48:BP:112:LEU:C	48:BP:112:LEU:CD2	2.89	0.40
38:BD:223:GLY:O	38:BD:225:ALA:N	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:27:THR:HG22	9:CI:28:VAL:N	2.36	0.40
1:AA:328:C:O2'	1:AA:329:A:OP2	2.37	0.40
55:BW:5:ALA:O	55:BW:6:ILE:HB	2.21	0.40
42:DH:88:LEU:N	42:DH:88:LEU:CD2	2.84	0.40
31:D6:18:ARG:CZ	31:D6:43:CYS:HG	2.34	0.40
45:DK:16:LYS:O	45:DK:17:ALA:HB2	2.21	0.40
57:BY:35:TYR:CD2	57:BY:35:TYR:O	2.74	0.40
57:BY:32:PRO:C	57:BY:35:TYR:H	2.24	0.40
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.22	0.40
5:AE:139:LEU:O	5:AE:141:GLN:N	2.54	0.40
5:AE:141:GLN:HA	5:AE:143:ARG:HH21	1.87	0.40
51:BS:89:ARG:O	51:BS:92:TYR:CG	2.74	0.40
49:BQ:134:ARG:CD	58:BZ:122:ARG:HH11	2.18	0.40
9:AI:83:ARG:HA	9:AI:86:VAL:CG1	2.51	0.40
4:AD:135:LEU:HD13	4:AD:135:LEU:N	2.37	0.40
27:B2:3:LEU:HD11	27:B2:7:ARG:NH2	2.35	0.40
2:CB:220:ASP:CA	2:CB:223:ILE:HG12	2.43	0.40
39:BE:110:GLY:O	50:BR:2:ARG:CZ	2.69	0.40
35:BA:666:G:H4'	48:BP:49:ARG:NH1	2.35	0.40
26:B1:3:LYS:HB2	35:BA:1364:G:P	2.62	0.40
42:BH:30:LYS:NZ	42:BH:81:GLU:HG2	2.36	0.40
52:DT:128:GLU:H	52:DT:128:GLU:HG3	1.68	0.40
22:CW:52:G:N2	22:CW:53:G:H1'	2.36	0.40
35:DA:1686:C:HO2'	35:DA:1687:G:H5'	1.86	0.40
4:AD:109:GLY:O	4:AD:110:PHE:C	2.59	0.40
39:DE:60:ASN:O	39:DE:61:ARG:C	2.59	0.40
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.55	0.40
7:AG:15:ASP:OD2	7:AG:44:TYR:OH	2.39	0.40
46:DN:55:VAL:CG2	46:DN:127:ASP:H	2.32	0.40
43:BI:72:LEU:H	43:BI:72:LEU:HD22	1.86	0.40
14:CN:22:THR:HG22	14:CN:33:VAL:CG1	2.51	0.40
58:DZ:44:PHE:O	58:DZ:45:ASP:C	2.59	0.40
1:CA:423:G:O2'	1:CA:424:G:H5'	2.21	0.40
11:AK:24:SER:OG	11:AK:25:TYR:N	2.54	0.40
35:BA:61:G:O6	35:BA:94:C:N4	2.54	0.40
3:AC:6:HIS:HE2	3:AC:184:TYR:HD2	1.66	0.40
1:CA:301:G:O2'	1:CA:302:G:H5'	2.21	0.40
35:DA:910:A:N1	35:DA:2277:G:H1'	2.36	0.40
17:CQ:60:ILE:HG21	17:CQ:74:LEU:HD23	2.03	0.40
42:DH:115:VAL:CG1	42:DH:116:GLU:H	2.27	0.40
40:BF:161:GLU:O	40:BF:165:ARG:HB2	2.22	0.40
42:BH:26:VAL:O	42:BH:32:GLU:HA	2.20	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2729:G:H2'	35:DA:2730:C:H6	1.86	0.40
16:CP:32:TYR:HD2	16:CP:32:TYR:O	2.03	0.40
35:BA:2147:G:O2'	35:BA:2148:G:H5'	2.22	0.40
24:AY:135:MET:CE	24:AY:191:ARG:NH1	2.85	0.40
1:CA:865:A:H5'	1:CA:1078:U:C5	2.56	0.40
1:CA:222:U:O2'	1:CA:223:U:H5'	2.20	0.40
2:CB:79:ASP:C	2:CB:81:VAL:H	2.24	0.40
7:CG:143:ARG:O	7:CG:147:ALA:HB2	2.21	0.40
7:CG:150:ALA:C	7:CG:152:ALA:H	2.24	0.40
11:AK:33:THR:OG1	11:AK:37:GLY:HA2	2.21	0.40
16:CP:5:ARG:HB3	16:CP:67:THR:OG1	2.21	0.40
35:BA:271(A):A:N1	35:BA:272(D):G:O2'	2.41	0.40
1:AA:1074:G:C2	1:AA:1075:C:C2	3.10	0.40
24:AY:267:SER:O	24:AY:268:GLN:C	2.58	0.40
20:AT:70:SER:HA	20:AT:73:HIS:HD2	1.84	0.40
35:DA:1570:A:C6	35:DA:1571:A:C6	3.09	0.40
1:AA:226:G:O2'	1:AA:227:G:H5'	2.21	0.40
22:CW:71:G:O2'	35:DA:1851:U:O3'	2.39	0.40
1:AA:1170:A:H2'	1:AA:1171:G:C5'	2.51	0.40
52:DT:54:ARG:HA	52:DT:59:THR:HB	2.02	0.40
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.21	0.40
35:DA:2826:A:H3'	35:DA:2827:C:H6	1.86	0.40
1:CA:224:C:H2'	1:CA:225:C:H6	1.85	0.40
35:BA:1099:G:O2'	35:BA:1100:C:H5'	2.22	0.40
43:BI:130:TYR:CD2	43:BI:132:PRO:HG3	2.56	0.40
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.56	0.40
12:CL:45:PRO:HB3	12:CL:53:ARG:NH1	2.36	0.40
24:CY:111:HIS:O	24:CY:177:TYR:HD2	2.04	0.40
24:CY:223:LYS:HB2	24:CY:226:GLU:HG3	2.02	0.40
4:CD:199:ASN:O	4:CD:201:GLN:N	2.54	0.40
48:DP:108:LYS:C	48:DP:109:GLY:O	2.59	0.40
35:DA:1465:G:N3	35:DA:1545:A:H2	2.18	0.40
35:DA:857:C:H42	35:DA:920:G:H1	1.69	0.40
42:BH:123:PHE:O	42:BH:124:GLU:HG2	2.21	0.40
2:CB:140:HIS:HA	2:CB:143:GLU:HG2	2.02	0.40
4:AD:146:ILE:N	4:AD:146:ILE:CD1	2.84	0.40
35:DA:654:A:C5	35:DA:654(V):A:H4'	2.57	0.40
4:CD:145:GLU:HG2	4:CD:184:LYS:HZ2	1.83	0.40
58:DZ:22:GLY:C	58:DZ:23:LYS:HD2	2.42	0.40
49:DQ:21:THR:HG21	49:DQ:101:ARG:CD	2.50	0.40
1:AA:952:U:O2'	1:AA:953:G:H5'	2.21	0.40
46:BN:119:ARG:NH1	46:BN:119:ARG:HG3	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:18:ALA:HB3	46:BN:26:LEU:HD22	2.03	0.40
14:AN:37:PHE:HD2	14:AN:37:PHE:N	2.20	0.40
1:AA:1084:G:C5	1:AA:1085:U:C4	3.09	0.40
35:BA:919:G:H4'	36:BB:81:G:C4'	2.51	0.40
4:CD:159:ARG:O	4:CD:161:ASN:N	2.54	0.40
39:DE:149:ARG:HH11	39:DE:149:ARG:HG3	1.86	0.40
1:CA:647:C:O2'	1:CA:648:A:H5'	2.22	0.40
43:BI:1:MET:CE	43:BI:23:PRO:HA	2.51	0.40
38:BD:122:ASP:O	38:BD:123:ALA:C	2.59	0.40
35:DA:432:A:H2'	35:DA:433:C:C6	2.56	0.40
35:DA:1817:G:C6	35:DA:1818:U:C4	3.09	0.40
30:D5:25:LEU:HD23	30:D5:26:THR:H	1.85	0.40
24:CY:152:GLU:HB3	24:CY:170:LEU:HB3	2.02	0.40
35:BA:1462:C:H4'	35:BA:2703:C:O4'	2.20	0.40
7:CG:107:ALA:O	7:CG:110:GLN:N	2.52	0.40
1:CA:890:G:N2	1:CA:906:G:H2'	2.35	0.40
35:BA:2769:C:H2'	35:BA:2770:G:C8	2.57	0.40
35:DA:2563:U:O2	35:DA:2565:A:C8	2.75	0.40
35:BA:2425:A:H5''	35:BA:2427:C:O4'	2.21	0.40
11:AK:81:ASP:O	11:AK:82:VAL:HG23	2.21	0.40
25:D0:55:ARG:CZ	25:D0:55:ARG:HB3	2.51	0.40
13:CM:102:ARG:O	13:CM:102:ARG:HG3	2.21	0.40
8:AH:134:ILE:HA	8:AH:134:ILE:HD13	1.88	0.40
2:AB:127:ILE:O	2:AB:127:ILE:HG22	2.22	0.40
3:AC:151:VAL:HA	3:AC:199:LYS:O	2.21	0.40
51:BS:97:ARG:C	51:BS:97:ARG:NE	2.75	0.40
42:DH:13:LYS:CD	42:DH:14:GLY:N	2.70	0.40
41:DG:108:ASN:C	41:DG:109:VAL:HG23	2.42	0.40
35:DA:924:C:H2'	35:DA:925:C:H6	1.87	0.40
13:AM:67:GLU:OE2	13:AM:71:ARG:NH2	2.53	0.40
31:B6:11:LEU:HD23	31:B6:25:LYS:CA	2.52	0.40
31:B6:25:LYS:O	35:BA:2286:A:C2	2.74	0.40
31:B6:30:THR:O	31:B6:32:ASN:N	2.55	0.40
31:D6:26:ASN:ND2	31:D6:32:ASN:ND2	2.69	0.40
40:BF:25:PRO:CG	40:BF:119:ARG:HG3	2.39	0.40
42:BH:43:VAL:HB	42:BH:46:GLU:OE2	2.21	0.40
35:BA:613:G:N2	35:BA:614(C):A:O2'	2.55	0.40
24:AY:52:ALA:C	24:AY:54:ARG:N	2.75	0.40
24:AY:51:GLU:CA	24:AY:54:ARG:HH21	2.29	0.40
24:CY:52:ALA:C	24:CY:55:LEU:H	2.24	0.40
54:DV:39:LEU:O	54:DV:40:LEU:CG	2.69	0.40
52:DT:13:ARG:HH12	52:DT:15:VAL:HG13	1.86	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:93:ARG:C	9:CI:95:LYS:N	2.75	0.40
31:B6:15:GLU:OE1	31:B6:43:CYS:SG	2.79	0.40
54:DV:15:GLU:O	54:DV:16:PRO:C	2.59	0.40
53:BU:70:ARG:HG3	53:BU:70:ARG:NH1	2.37	0.40
57:DY:10:GLY:C	57:DY:27:VAL:HG13	2.42	0.40
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.56	0.40
19:CS:76:PRO:CB	19:CS:81:ARG:HG3	2.52	0.40
1:CA:354:G:N3	1:CA:354:G:H2'	2.36	0.40
35:BA:2732:G:C2'	35:BA:2733:A:H5'	2.51	0.40
56:BX:36:LYS:HA	56:BX:39:ILE:CG1	2.51	0.40
39:DE:45:THR:O	39:DE:46:ALA:HB2	2.22	0.40
22:CW:16:U:H4'	22:CW:16:U:OP1	2.21	0.40
45:DK:54:PRO:HD3	45:DK:72:PRO:HA	2.02	0.40
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.70	0.40
1:AA:370:C:C5	1:AA:392:G:N1	2.89	0.40
8:CH:10:LEU:HB3	8:CH:83:ILE:HD11	2.03	0.40
48:DP:88:LEU:HD12	48:DP:95:VAL:HG11	2.03	0.40
14:CN:29:ARG:HG2	14:CN:30:ALA:N	2.36	0.40
1:CA:725:G:H2'	1:CA:726:C:H6	1.86	0.40
58:DZ:41:LEU:O	58:DZ:44:PHE:N	2.54	0.40
1:CA:421:U:O2'	1:CA:422:C:H5'	2.21	0.40
35:DA:2134:A:H61	35:DA:2157:G:H1'	1.83	0.40
51:DS:33:LYS:C	51:DS:34:HIS:CD2	2.95	0.40
4:AD:30:LYS:HA	4:AD:35:ARG:HG2	2.04	0.40
4:AD:32:ALA:C	4:AD:34:GLU:N	2.75	0.40
1:CA:1310:G:OP2	13:CM:88:ARG:NH2	2.48	0.40
24:AY:205:PHE:CZ	24:AY:307:TRP:CE3	3.10	0.40
7:AG:111:ARG:HB3	7:AG:113:GLU:HG2	2.02	0.40
1:CA:277:C:H2'	1:CA:278:G:H8	1.86	0.40
39:DE:150:VAL:O	39:DE:151:TYR:C	2.60	0.40
36:BB:13:A:O2'	36:BB:14:U:H3'	2.22	0.40
3:CC:151:VAL:HA	3:CC:199:LYS:O	2.21	0.40
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.21	0.40
35:DA:1614:A:H2'	35:DA:1615:C:H5'	2.04	0.40
3:CC:73:PRO:HA	3:CC:76:VAL:HG22	2.03	0.40
35:BA:1188:U:H5'	54:BV:79:VAL:CG1	2.51	0.40
39:DE:16:ARG:O	39:DE:18:ASP:N	2.55	0.40
1:AA:1327:C:H5''	21:AU:20:LYS:HB3	2.04	0.40
53:BU:111:GLU:HA	53:BU:114:LYS:HG2	2.04	0.40
39:DE:182:LEU:HD12	39:DE:183:LEU:N	2.36	0.40
37:DC:67:GLY:O	37:DC:68:LEU:HB2	2.21	0.40
1:AA:1353:G:O2'	1:AA:1354:C:H5'	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1286:A:H2	21:AU:22:ARG:HH22	1.69	0.40
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.52	0.40
1:CA:552:U:C2'	1:CA:553:A:H5'	2.51	0.40
50:BR:37:THR:OG1	50:BR:40:LYS:HB2	2.21	0.40
24:CY:145:GLU:HG3	24:CY:151:VAL:HG23	2.04	0.40
1:AA:861:G:O2'	1:AA:862:C:H5'	2.21	0.40
35:BA:626:U:O2	48:BP:105:LEU:HD23	2.22	0.40
12:AL:119:LYS:HB2	12:AL:120:TYR:CD1	2.56	0.40
35:BA:1380:G:N2	35:BA:1570:A:C2	2.88	0.40
52:BT:56:GLY:O	52:BT:59:THR:CG2	2.70	0.40
35:DA:833:U:OP1	48:DP:45:LEU:HD13	2.21	0.40
24:CY:132:TRP:CE2	24:CY:189:LEU:HB2	2.56	0.40
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.51	0.40
53:DU:98:LEU:HA	53:DU:101:ARG:O	2.21	0.40
13:AM:39:ILE:HD12	13:AM:56:LEU:HD23	2.04	0.40
1:AA:1142:G:O2'	1:AA:1143:G:H5'	2.20	0.40
46:BN:89:LYS:O	46:BN:93:THR:CG2	2.68	0.40
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.86	0.40
35:DA:1286:A:C6	35:DA:1289:C:C2	3.10	0.40
1:AA:1019:C:H2'	1:AA:1020:U:C6	2.57	0.40
1:CA:1476:G:H2'	1:CA:1477:C:H6	1.87	0.40
12:AL:61:THR:C	12:AL:63:GLY:N	2.75	0.40
1:AA:896:C:O2'	1:AA:897:C:H5'	2.22	0.40
35:DA:1426:G:C6	35:DA:1427:A:C6	3.09	0.40
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.85	0.40
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.54	0.40
35:DA:296:C:H2'	35:DA:297:C:H6	1.87	0.40
42:BH:86:GLU:HA	42:BH:132:ARG:HB2	2.03	0.40
35:DA:2668:G:H2'	35:DA:2669:G:H8	1.86	0.40
1:CA:992:U:O2'	1:CA:993:G:P	2.79	0.40
37:BC:18:LYS:O	37:BC:19:VAL:CB	2.69	0.40
45:DK:5:VAL:HG22	45:DK:5:VAL:O	2.21	0.40
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	2.03	0.40
1:CA:1263:C:H3'	1:CA:1264:C:C6	2.57	0.40
22:CV:53:G:H2'	22:CV:54:U:C6	2.57	0.40
36:DB:111:G:C2'	36:DB:112:U:H5'	2.51	0.40
1:CA:155:C:O2'	1:CA:156:G:H5'	2.21	0.40
49:DQ:48:GLU:C	49:DQ:50:ALA:H	2.24	0.40
35:DA:697:C:H2'	35:DA:698:C:C6	2.56	0.40
8:AH:114:THR:C	8:AH:116:LYS:H	2.25	0.40
35:DA:335:C:H2'	35:DA:336:C:H6	1.86	0.40
12:CL:7:ILE:HA	12:CL:7:ILE:HD13	1.92	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.22	0.40
48:BP:92:GLU:OE1	48:BP:92:GLU:C	2.60	0.40
35:BA:1961:C:O2'	35:BA:1962:C:H5'	2.22	0.40
35:DA:271(B):C:O2'	35:DA:271(C):C:H5'	2.21	0.40
51:BS:29:PHE:CD2	51:BS:30:ARG:N	2.90	0.40
33:D8:53:PRO:C	33:D8:55:ALA:H	2.24	0.40
58:DZ:121:HIS:C	58:DZ:123:ASP:H	2.23	0.40
33:B8:4:MET:HE1	35:BA:593:G:C1'	2.51	0.40
13:CM:67:GLU:OE2	13:CM:71:ARG:NH2	2.53	0.40
27:D2:69:ARG:CZ	35:DA:111:A:H5''	2.51	0.40
33:B8:32:LEU:N	33:B8:32:LEU:HD13	2.18	0.40
52:BT:82:LEU:O	52:BT:83:ILE:C	2.60	0.40
1:AA:357:G:C3'	1:AA:358:U:H5''	2.50	0.40
35:DA:2759:G:C2'	35:DA:2760:C:H5'	2.51	0.40
40:BF:28:ILE:HD11	40:BF:115:ALA:CB	2.51	0.40
16:AP:6:LEU:HG	16:AP:19:ILE:HD13	2.03	0.40
35:BA:480:A:H1'	57:BY:44:ILE:HG21	2.03	0.40
40:DF:11:VAL:CG1	40:DF:12:LEU:H	2.33	0.40
40:DF:10:PRO:O	40:DF:11:VAL:O	2.39	0.40
25:B0:40:GLN:OE1	25:B0:44:ARG:N	2.55	0.40
41:BG:9:ARG:C	41:BG:11:TYR:N	2.74	0.40
41:BG:78:SER:O	41:BG:79:ASN:C	2.60	0.40
2:AB:29:ALA:O	2:AB:32:ILE:HG22	2.22	0.40
35:DA:2289:G:C1'	35:DA:2346:A:H2	2.32	0.40
54:BV:34:GLU:CG	54:BV:56:SER:HB2	2.52	0.40
55:BW:47:VAL:O	55:BW:50:VAL:HG13	2.22	0.40
48:DP:39:LYS:O	48:DP:40:SER:HB2	2.21	0.40
31:D6:15:GLU:OE2	31:D6:18:ARG:NE	2.53	0.40
58:DZ:30:ASN:HB3	58:DZ:90:VAL:O	2.21	0.40
8:AH:104:ARG:O	8:AH:105:ARG:CB	2.70	0.40
47:DO:107:ARG:NH1	52:DT:35:LYS:CD	2.82	0.40
5:CE:80:ILE:HA	8:CH:104:ARG:NH2	2.37	0.40
51:DS:28:VAL:HB	51:DS:89:ARG:CG	2.52	0.40
51:DS:90:GLY:O	51:DS:92:TYR:N	2.54	0.40
51:BS:14:VAL:CG1	51:BS:15:ARG:N	2.62	0.40
35:BA:1528(A):A:H3'	35:BA:1529:G:H5''	2.02	0.40
37:DC:58:VAL:HB	37:DC:59:ARG:H	1.71	0.40
19:CS:76:PRO:HB2	19:CS:81:ARG:HD3	2.04	0.40
2:CB:51:LEU:O	2:CB:55:PHE:CD2	2.74	0.40
2:AB:75:LYS:C	2:AB:77:ALA:H	2.25	0.40
35:DA:2534:A:C2'	35:DA:2535:G:O5'	2.69	0.40
24:CY:337:LEU:O	24:CY:338:ASP:OD1	2.39	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:92:ALA:N	3:CC:99:VAL:HG11	2.37	0.40
1:AA:643:C:OP2	8:AH:30:ARG:NH2	2.55	0.40
1:AA:877:C:H2'	1:AA:878:G:C8	2.57	0.40
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.22	0.40
13:CM:30:ALA:C	13:CM:32:GLU:H	2.24	0.40
49:DQ:112:GLU:HG3	49:DQ:113:GLN:N	2.37	0.40
1:AA:403:C:H2'	1:AA:404:U:C6	2.57	0.40
35:BA:1211:U:H4'	35:BA:1212:G:OP2	2.22	0.40
5:AE:6:PHE:HB2	5:AE:34:VAL:CG1	2.48	0.40
5:AE:6:PHE:N	5:AE:6:PHE:HD1	2.19	0.40
35:BA:2752:C:H2'	35:BA:2753:A:H8	1.87	0.40
7:AG:15:ASP:H	7:AG:20:ASP:N	2.19	0.40
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.69	0.40
5:CE:146:ALA:C	5:CE:148:VAL:N	2.74	0.40
28:B3:48:GLU:O	28:B3:50:VAL:N	2.54	0.40
48:BP:88:LEU:HD11	48:BP:95:VAL:HG11	2.03	0.40
1:AA:421:U:O2'	1:AA:422:C:H5'	2.21	0.40
35:DA:197:A:C5'	35:DA:197:A:C8	2.99	0.40
35:DA:1708:C:O5'	35:DA:1708:C:H6	2.05	0.40
1:AA:1054:C:O2'	1:AA:1055:A:C5'	2.62	0.40
2:AB:109:SER:O	2:AB:111:ARG:N	2.55	0.40
35:BA:117:G:C6	35:BA:119:A:C6	3.10	0.40
45:DK:58:THR:O	45:DK:65:PHE:HA	2.22	0.40
50:DR:44:LEU:HD12	50:DR:48:VAL:HG23	2.04	0.40
50:DR:48:VAL:HG12	50:DR:49:ASP:N	2.37	0.40
3:AC:6:HIS:CB	14:AN:49:HIS:CD2	3.05	0.40
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.86	0.40
35:DA:2599:G:N7	38:DD:237:GLU:HG3	2.35	0.40
1:CA:1473:A:H2'	1:CA:1474:G:H8	1.83	0.40
12:AL:70:ILE:HD13	12:AL:77:LEU:HD12	2.02	0.40
16:AP:9:PHE:HB3	16:AP:10:GLY:H	1.71	0.40
17:CQ:68:ARG:H	17:CQ:70:ARG:HH12	1.66	0.40
1:CA:1291:G:H2'	1:CA:1292:U:C6	2.57	0.40
2:AB:92:TYR:HE2	2:AB:151:GLY:N	2.19	0.40
60:DI:96:ASP:O	60:DI:100:ALA:N	2.33	0.40
40:DF:160:ASN:HD22	40:DF:161:GLU:N	2.19	0.40
3:CC:88:ARG:HH11	3:CC:88:ARG:HG2	1.87	0.40
39:BE:119:ARG:HD3	39:BE:120:TRP:CE2	2.55	0.40
1:CA:1058:G:H2'	1:CA:1059:C:O4'	2.20	0.40
6:AF:52:ILE:HG22	6:AF:86:ARG:HD3	2.03	0.40
42:DH:146:ALA:CA	42:DH:149:ARG:HB3	2.50	0.40
35:BA:2584:U:H5'	35:BA:2585:U:OP2	2.20	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:932:C:O2	1:CA:932:C:H2'	2.21	0.40
1:CA:473:G:OP2	16:CP:75:ARG:HD3	2.21	0.40
1:AA:1072:G:C5	1:AA:1073:U:C4	3.09	0.40
5:AE:13:ILE:HG23	5:AE:30:ALA:HB2	2.03	0.40
1:AA:1502:A:H2	1:AA:1505:G:N1	2.20	0.40
1:CA:1286:A:H2	21:CU:22:ARG:HH22	1.70	0.40
16:AP:71:ARG:CB	16:AP:71:ARG:NH1	2.84	0.40
1:AA:1284:C:H3'	1:AA:1285:A:H8	1.87	0.40
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.21	0.40
1:CA:1255:G:H5''	3:CC:26:LYS:HE3	2.03	0.40
39:BE:182:LEU:HD12	39:BE:183:LEU:N	2.36	0.40
1:CA:1164:G:C6	1:CA:1173:G:C6	3.09	0.40
36:BB:16:G:H2'	36:BB:17:C:C6	2.57	0.40
30:B5:54:GLY:O	30:B5:56:LYS:NZ	2.39	0.40
35:BA:1889:A:N1	35:BA:2234:G:H1'	2.36	0.40
35:BA:1786:A:C2	35:BA:2606:C:H1'	2.57	0.40
35:BA:825:C:C2'	35:BA:826:U:O5'	2.70	0.40
35:BA:654(U):A:H2'	35:BA:654(V):A:H8	1.86	0.40
1:AA:110:C:O2'	1:AA:111:G:C5'	2.70	0.40
46:DN:18:ALA:HB1	46:DN:21:LYS:HB2	2.02	0.40
1:AA:658:G:O2'	1:AA:659:U:H5'	2.21	0.40
35:DA:191:A:H2'	35:DA:192:C:C6	2.57	0.40
35:DA:2870:C:C2'	35:DA:2871:C:H5'	2.51	0.40
35:BA:306:U:C2'	35:BA:307:G:H5'	2.52	0.40
1:CA:647:C:H2'	1:CA:648:A:C8	2.57	0.40
1:AA:1263:C:H3'	1:AA:1264:C:C6	2.56	0.40
36:DB:111:G:O2'	36:DB:112:U:H5'	2.21	0.40
14:CN:7:ILE:HA	14:CN:10:ALA:CB	2.51	0.40
24:AY:245:THR:HA	35:BA:2493:U:OP1	2.21	0.40
1:AA:589:C:O2'	1:AA:590:C:H5'	2.21	0.40
1:CA:384:G:O2'	1:CA:385:C:H5'	2.21	0.40
20:CT:40:ALA:C	20:CT:42:GLN:N	2.75	0.40
35:BA:2338:G:N1	35:BA:2339:G:C5	2.90	0.40
35:BA:868:U:C4	35:BA:869:G:N7	2.89	0.40
4:AD:23:GLY:HA3	4:AD:113:SER:OG	2.21	0.40
7:AG:122:HIS:CD2	7:AG:122:HIS:H	2.38	0.40
1:AA:122:G:H8	1:AA:122:G:O5'	2.03	0.40
51:DS:98:VAL:CG1	51:DS:99:LYS:N	2.85	0.40
48:DP:52:GLU:HG3	48:DP:53:GLY:H	1.86	0.40
45:DK:94:GLU:HB2	58:DZ:112:ARG:HH12	1.86	0.40
21:CU:2:GLY:O	21:CU:4:GLY:N	2.55	0.40
35:DA:1888:G:H5'	35:DA:1888:G:N3	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.86	0.40
33:D8:37:SER:O	33:D8:40:GLU:HB2	2.21	0.40
60:DI:123:LEU:HD21	60:DI:145:VAL:HA	2.03	0.40
24:AY:341:LEU:C	24:AY:343:ASP:H	2.24	0.40
24:AY:349:LEU:O	24:AY:350:GLU:C	2.60	0.40
35:BA:1067:A:H5'	35:BA:1067:A:C8	2.47	0.40
41:BG:60:LEU:O	41:BG:60:LEU:HD13	2.22	0.40
22:AV:56:C:O2	41:BG:78:SER:HB2	2.21	0.40
41:BG:91:ARG:C	41:BG:91:ARG:HD2	2.42	0.40
24:AY:32:ARG:HH11	24:AY:32:ARG:HG3	1.85	0.40
35:DA:2345:G:N3	35:DA:2381:C:H2'	2.36	0.40
18:CR:59:SER:O	18:CR:60:ALA:C	2.58	0.40
9:CI:43:ALA:CA	9:CI:74:ILE:HD13	2.50	0.40
35:BA:494:G:C5'	35:BA:494:G:C8	3.03	0.40
42:DH:94:TYR:N	42:DH:94:TYR:HD1	2.20	0.40
31:D6:18:ARG:HG2	31:D6:18:ARG:H	1.50	0.40
54:DV:18:LEU:CD1	54:DV:96:ILE:CG1	2.99	0.40
54:DV:21:ARG:HB3	54:DV:91:TYR:CD2	2.56	0.40
2:CB:185:ILE:HD11	2:CB:199:TYR:CD1	2.52	0.40
51:DS:28:VAL:HG12	51:DS:89:ARG:HG2	2.04	0.40
60:DI:66:GLU:HG2	60:DI:66:GLU:O	2.21	0.40
9:AI:71:SER:HA	9:AI:74:ILE:HD12	2.04	0.40
9:AI:90:PRO:O	9:AI:92:TYR:N	2.48	0.40
9:AI:92:TYR:N	9:AI:92:TYR:CD1	2.90	0.40
1:AA:493:G:P	60:DI:8:PRO:HB3	2.62	0.40
35:BA:1062:G:O2'	45:BK:133:SER:HB3	2.22	0.40
1:AA:1374:A:O2'	7:AG:28:ASN:HB3	2.21	0.40
19:AS:11:VAL:CG1	19:AS:16:LEU:HD11	2.51	0.40
20:AT:47:GLY:O	20:AT:48:LYS:HD3	2.21	0.40
20:AT:44:ALA:HB2	20:AT:88:VAL:HG22	2.02	0.40
11:CK:29:ILE:HG22	11:CK:44:SER:HB3	2.02	0.40
1:CA:373:A:C2	1:CA:482:A:N6	2.90	0.40
52:BT:125:ARG:O	52:BT:128:GLU:HG3	2.21	0.40
1:CA:938:A:C6	1:CA:939:G:C5	3.10	0.40
7:CG:103:TRP:HD1	7:CG:106:GLN:HE21	1.70	0.40
12:AL:27:LEU:O	12:AL:29:GLY:N	2.54	0.40
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.57	0.40
57:DY:68:HIS:O	57:DY:70:SER:N	2.54	0.40
43:BI:5:LEU:HA	43:BI:36:ALA:HB2	2.03	0.40
39:DE:57:LYS:HZ2	39:DE:57:LYS:HB3	1.81	0.40
1:CA:390:C:O5'	1:CA:390:C:H6	2.03	0.40
35:BA:2290:G:H2'	35:BA:2291:U:O4'	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:109:GLY:O	4:CD:110:PHE:C	2.59	0.40
46:DN:62:VAL:HG13	46:DN:62:VAL:O	2.22	0.40
33:D8:19:SER:CB	35:DA:651:G:OP1	2.70	0.40
24:AY:116:ALA:C	24:AY:117:ILE:HG13	2.42	0.40
1:CA:1071:C:O2'	1:CA:1072:G:H5'	2.21	0.40
22:AW:41:C:C2	22:AW:42:C:C5	3.10	0.40
45:BK:10:LEU:HD22	45:BK:26:ALA:HB1	2.04	0.40
1:AA:1054:C:O2	1:AA:1054:C:C3'	2.70	0.40
49:BQ:2:LEU:HG	49:BQ:69:PHE:CE1	2.55	0.40
24:AY:249:VAL:HG11	24:AY:271:ASN:O	2.22	0.40
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.54	0.40
7:AG:76:ARG:O	7:AG:77:SER:O	2.39	0.40
47:DO:102:VAL:HG23	47:DO:121:VAL:HG22	2.04	0.40
24:AY:251:VAL:HG23	24:AY:275:ALA:HB1	2.02	0.40
3:CC:6:HIS:CB	14:CN:49:HIS:HB3	2.52	0.40
47:DO:11:ALA:O	47:DO:98:VAL:HA	2.22	0.40
22:AV:65:G:C4	22:AV:66:U:C5	3.10	0.40
45:DK:38:VAL:O	45:DK:42:ASN:ND2	2.54	0.40
8:AH:100:ILE:HA	8:AH:101:PRO:HD3	1.77	0.40
3:AC:64:VAL:HG12	3:AC:66:VAL:HG22	2.03	0.40
8:CH:35:ILE:O	8:CH:39:LEU:HD23	2.21	0.40
35:DA:2121:G:C2'	35:DA:2122:U:C5'	2.99	0.40
10:CJ:99:LYS:HA	10:CJ:99:LYS:HD3	1.87	0.40
24:CY:10:LEU:O	24:CY:14:ARG:HD3	2.21	0.40
35:DA:320:A:H4'	35:DA:322:A:N7	2.36	0.40
35:DA:2201:C:H2'	35:DA:2202:C:H6	1.83	0.40
35:DA:1067:A:C8	35:DA:1067:A:H5'	2.47	0.40
1:CA:604:G:C5	1:CA:605:U:C4	3.09	0.40
2:AB:91:PRO:CG	2:AB:155:LEU:HD23	2.51	0.40
45:DK:97:GLY:O	45:DK:136:VAL:HG23	2.22	0.40
18:AR:76:LEU:HD22	18:AR:76:LEU:N	2.36	0.40
35:BA:1292:U:H2'	35:BA:1293:C:H6	1.81	0.40
38:BD:211:ARG:C	38:BD:213:ARG:N	2.74	0.40
35:BA:460:A:C2	35:BA:470:A:C4	3.09	0.40
35:DA:1926:U:H2'	35:DA:1928:A:OP2	2.22	0.40
24:CY:303:GLU:N	24:CY:304:PRO:HD3	2.36	0.40
47:BO:79:PHE:HD2	52:BT:72:VAL:HG22	1.86	0.40
1:CA:1350:A:OP2	9:CI:118:LYS:HD3	2.21	0.40
12:AL:90:VAL:HG11	12:AL:93:LEU:HD12	2.03	0.40
35:DA:473:G:P	35:DA:508:G:N2	2.93	0.40
35:BA:2522:U:H2'	35:BA:2523:G:C5'	2.51	0.40
35:BA:2522:U:H2'	35:BA:2523:G:H5'	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:5:PRO:HA	12:AL:9:GLN:OE1	2.22	0.40
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.21	0.40
35:DA:1754:C:H2'	35:DA:1755:A:O4'	2.22	0.40
11:CK:31:THR:HA	11:CK:42:TRP:HA	2.03	0.40
35:DA:1991:U:H2'	35:DA:1992:G:C5'	2.50	0.40
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.35	0.40
37:BC:48:GLY:H	37:BC:207:THR:CB	2.34	0.40
37:BC:47:LEU:HG	37:BC:48:GLY:H	1.86	0.40
1:CA:515:G:C2'	1:CA:516:U:H5'	2.51	0.40
49:BQ:42:ILE:HG22	49:BQ:47:ILE:HG13	2.03	0.40
1:CA:369:C:N3	1:CA:393:A:C2	2.89	0.40
45:BK:101:TRP:CD1	45:BK:140:GLY:HA3	2.57	0.40
4:AD:159:ARG:O	4:AD:160:GLN:C	2.60	0.40
2:CB:118:LEU:O	2:CB:122:PHE:HB2	2.21	0.40
1:AA:96:U:H2'	1:AA:97:G:C8	2.56	0.40
44:BJ:108:UNK:C	44:BJ:110:UNK:N	2.84	0.40
1:AA:1401:G:C2	1:AA:1402:C:H1'	2.57	0.40
35:DA:432:A:H2'	35:DA:433:C:H6	1.87	0.40
12:CL:7:ILE:O	12:CL:11:VAL:HG23	2.22	0.40
1:AA:450:G:C8	1:AA:481:G:O6	2.74	0.40
11:CK:61:ALA:CB	11:CK:90:GLY:HA3	2.52	0.40
35:DA:2621:A:C2'	35:DA:2622:C:H5'	2.52	0.40
58:BZ:133:ILE:O	58:BZ:135:GLU:N	2.53	0.40
13:CM:14:ARG:HD2	13:CM:42:ALA:HA	2.03	0.40
35:DA:570:G:H2'	35:DA:2030:A:C5	2.57	0.40
8:AH:41:ARG:O	8:AH:41:ARG:HG2	2.21	0.40
5:CE:145:LYS:HD3	5:CE:145:LYS:O	2.22	0.40
32:D7:3:ARG:HA	32:D7:3:ARG:HD3	1.78	0.40

All (9) 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	Distance(Å)	Clash(Å)
28:B3:48:GLU:O	35:DA:654(L):G:OP2[3_455]	1.99	0.21
36:BB:97:G:N7	35:DA:654(J):A:OP1[3_455]	2.05	0.15
36:BB:97:G:OP2	35:DA:654(I):C:O2'[3_455]	2.06	0.14
36:BB:96:U:C3'	35:DA:654(I):C:O2'[3_455]	2.09	0.11
36:BB:96:U:O2	35:DA:654(K):C:OP1[3_455]	2.10	0.10
28:B3:51:ALA:N	35:DA:654(L):G:OP2[3_455]	2.15	0.05
36:BB:96:U:O2	35:DA:654(J):A:C4'[3_455]	2.16	0.04
36:BB:82:G:N2	35:DA:654(K):C:OP2[3_455]	2.17	0.03
28:B3:2:PRO:CD	35:DA:654(B):C:OP1[3_455]	2.19	0.01

## 5.3 Torsion angles

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	155 (66%)	58 (25%)	20 (9%)	1	17
2	CB	233/256 (91%)	156 (67%)	56 (24%)	21 (9%)	1	16
3	AC	205/239 (86%)	125 (61%)	57 (28%)	23 (11%)	1	10
3	CC	205/239 (86%)	128 (62%)	55 (27%)	22 (11%)	1	11
4	AD	206/209 (99%)	134 (65%)	49 (24%)	23 (11%)	1	10
4	CD	206/209 (99%)	135 (66%)	49 (24%)	22 (11%)	1	11
5	AE	149/162 (92%)	98 (66%)	36 (24%)	15 (10%)	1	13
5	CE	149/162 (92%)	100 (67%)	34 (23%)	15 (10%)	1	13
6	AF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	2	24
6	CF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	2	24
7	AG	153/156 (98%)	108 (71%)	34 (22%)	11 (7%)	2	24
7	CG	153/156 (98%)	108 (71%)	34 (22%)	11 (7%)	2	24
8	AH	136/138 (99%)	92 (68%)	32 (24%)	12 (9%)	1	17
8	CH	136/138 (99%)	92 (68%)	32 (24%)	12 (9%)	1	17
9	AI	125/128 (98%)	83 (66%)	30 (24%)	12 (10%)	1	14
9	CI	125/128 (98%)	82 (66%)	31 (25%)	12 (10%)	1	14
10	AJ	97/105 (92%)	64 (66%)	21 (22%)	12 (12%)	1	9
10	CJ	97/105 (92%)	64 (66%)	21 (22%)	12 (12%)	1	9
11	AK	117/129 (91%)	89 (76%)	24 (20%)	4 (3%)	6	49
11	CK	117/129 (91%)	89 (76%)	24 (20%)	4 (3%)	6	49
12	AL	124/132 (94%)	89 (72%)	26 (21%)	9 (7%)	2	23
12	CL	124/132 (94%)	90 (73%)	25 (20%)	9 (7%)	2	23
13	AM	119/126 (94%)	82 (69%)	23 (19%)	14 (12%)	1	10
13	CM	119/126 (94%)	84 (71%)	21 (18%)	14 (12%)	1	10
14	AN	58/61 (95%)	39 (67%)	12 (21%)	7 (12%)	1	9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CN	58/61 (95%)	38 (66%)	12 (21%)	8 (14%)	0	6
15	AO	86/89 (97%)	59 (69%)	23 (27%)	4 (5%)	4	37
15	CO	86/89 (97%)	57 (66%)	25 (29%)	4 (5%)	4	37
16	AP	82/88 (93%)	51 (62%)	22 (27%)	9 (11%)	1	11
16	CP	82/88 (93%)	53 (65%)	20 (24%)	9 (11%)	1	11
17	AQ	98/105 (93%)	68 (69%)	17 (17%)	13 (13%)	0	7
17	CQ	98/105 (93%)	69 (70%)	17 (17%)	12 (12%)	1	9
18	AR	68/88 (77%)	45 (66%)	16 (24%)	7 (10%)	1	12
18	CR	68/88 (77%)	45 (66%)	16 (24%)	7 (10%)	1	12
19	AS	77/93 (83%)	36 (47%)	30 (39%)	11 (14%)	0	6
19	CS	77/93 (83%)	36 (47%)	30 (39%)	11 (14%)	0	6
20	AT	97/106 (92%)	68 (70%)	18 (19%)	11 (11%)	1	10
20	CT	97/106 (92%)	68 (70%)	18 (19%)	11 (11%)	1	10
21	AU	23/27 (85%)	18 (78%)	3 (13%)	2 (9%)	1	17
21	CU	23/27 (85%)	18 (78%)	3 (13%)	2 (9%)	1	17
24	AY	349/351 (99%)	246 (70%)	70 (20%)	33 (10%)	1	15
24	CY	349/351 (99%)	256 (73%)	61 (18%)	32 (9%)	1	15
25	B0	74/85 (87%)	58 (78%)	10 (14%)	6 (8%)	1	19
25	D0	74/85 (87%)	58 (78%)	10 (14%)	6 (8%)	1	19
26	B1	92/98 (94%)	65 (71%)	15 (16%)	12 (13%)	0	8
26	D1	92/98 (94%)	72 (78%)	12 (13%)	8 (9%)	1	17
27	B2	69/72 (96%)	40 (58%)	17 (25%)	12 (17%)	0	3
27	D2	69/72 (96%)	39 (56%)	20 (29%)	10 (14%)	0	5
28	B3	58/60 (97%)	43 (74%)	9 (16%)	6 (10%)	1	12
28	D3	58/60 (97%)	43 (74%)	9 (16%)	6 (10%)	1	12
29	B4	29/71 (41%)	14 (48%)	11 (38%)	4 (14%)	0	6
30	B5	57/60 (95%)	40 (70%)	7 (12%)	10 (18%)	0	3
30	D5	57/60 (95%)	40 (70%)	7 (12%)	10 (18%)	0	3
31	B6	43/54 (80%)	17 (40%)	12 (28%)	14 (33%)	0	0
31	D6	43/54 (80%)	17 (40%)	13 (30%)	13 (30%)	0	0
32	B7	47/49 (96%)	44 (94%)	3 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
32	D7	47/49 (96%)	44 (94%)	3 (6%)	0	100	100
33	B8	62/65 (95%)	38 (61%)	15 (24%)	9 (14%)	0	5
33	D8	62/65 (95%)	38 (61%)	15 (24%)	9 (14%)	0	5
34	B9	34/37 (92%)	23 (68%)	11 (32%)	0	100	100
34	D9	34/37 (92%)	24 (71%)	10 (29%)	0	100	100
37	BC	183/229 (80%)	64 (35%)	71 (39%)	48 (26%)	0	1
37	DC	183/229 (80%)	65 (36%)	72 (39%)	46 (25%)	0	1
38	BD	270/276 (98%)	199 (74%)	39 (14%)	32 (12%)	1	9
38	DD	270/276 (98%)	198 (73%)	40 (15%)	32 (12%)	1	9
39	BE	203/206 (98%)	124 (61%)	45 (22%)	34 (17%)	0	4
39	DE	203/206 (98%)	123 (61%)	44 (22%)	36 (18%)	0	3
40	BF	206/210 (98%)	149 (72%)	33 (16%)	24 (12%)	1	10
40	DF	206/210 (98%)	149 (72%)	33 (16%)	24 (12%)	1	10
41	BG	179/182 (98%)	92 (51%)	54 (30%)	33 (18%)	0	3
41	DG	179/182 (98%)	107 (60%)	46 (26%)	26 (14%)	0	5
42	BH	158/180 (88%)	90 (57%)	38 (24%)	30 (19%)	0	2
42	DH	158/180 (88%)	91 (58%)	36 (23%)	31 (20%)	0	2
43	BI	144/148 (97%)	100 (69%)	28 (19%)	16 (11%)	1	11
45	BK	139/147 (95%)	88 (63%)	33 (24%)	18 (13%)	0	8
45	DK	139/147 (95%)	87 (63%)	34 (24%)	18 (13%)	0	8
46	BN	137/140 (98%)	97 (71%)	20 (15%)	20 (15%)	0	5
46	DN	137/140 (98%)	99 (72%)	18 (13%)	20 (15%)	0	5
47	BO	120/122 (98%)	97 (81%)	17 (14%)	6 (5%)	3	35
47	DO	120/122 (98%)	98 (82%)	14 (12%)	8 (7%)	2	26
48	BP	144/150 (96%)	68 (47%)	36 (25%)	40 (28%)	0	0
48	DP	144/150 (96%)	68 (47%)	36 (25%)	40 (28%)	0	0
49	BQ	139/141 (99%)	111 (80%)	19 (14%)	9 (6%)	2	27
49	DQ	139/141 (99%)	114 (82%)	16 (12%)	9 (6%)	2	27
50	BR	115/118 (98%)	72 (63%)	29 (25%)	14 (12%)	1	9
50	DR	115/118 (98%)	70 (61%)	31 (27%)	14 (12%)	1	9
51	BS	97/112 (87%)	55 (57%)	22 (23%)	20 (21%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	DS	97/112 (87%)	54 (56%)	22 (23%)	21 (22%)	0	1
52	BT	136/146 (93%)	84 (62%)	23 (17%)	29 (21%)	0	2
52	DT	136/146 (93%)	85 (62%)	22 (16%)	29 (21%)	0	2
53	BU	115/118 (98%)	78 (68%)	27 (24%)	10 (9%)	1	17
53	DU	115/118 (98%)	77 (67%)	28 (24%)	10 (9%)	1	17
54	BV	99/101 (98%)	72 (73%)	13 (13%)	14 (14%)	0	6
54	DV	99/101 (98%)	72 (73%)	14 (14%)	13 (13%)	0	8
55	BW	111/113 (98%)	83 (75%)	22 (20%)	6 (5%)	3	33
55	DW	111/113 (98%)	83 (75%)	22 (20%)	6 (5%)	3	33
56	BX	91/96 (95%)	75 (82%)	14 (15%)	2 (2%)	10	60
56	DX	91/96 (95%)	74 (81%)	16 (18%)	1 (1%)	21	76
57	BY	99/110 (90%)	46 (46%)	20 (20%)	33 (33%)	0	0
57	DY	99/110 (90%)	47 (48%)	20 (20%)	32 (32%)	0	0
58	BZ	175/206 (85%)	102 (58%)	41 (23%)	32 (18%)	0	3
58	DZ	175/206 (85%)	110 (63%)	36 (21%)	29 (17%)	0	4
59	D4	28/30 (93%)	14 (50%)	11 (39%)	3 (11%)	1	11
60	DI	144/148 (97%)	81 (56%)	42 (29%)	21 (15%)	0	5
All	All	12651/13541 (93%)	8336 (66%)	2725 (22%)	1590 (13%)	0	8

All (1590) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	20	GLU
2	AB	88	ALA
2	AB	95	GLN
2	AB	195	ASP
2	AB	238	LEU
3	AC	157	ILE
3	AC	168	ALA
3	AC	179	ARG
3	AC	207	VAL
4	AD	3	ARG
4	AD	14	ARG
4	AD	29	PRO
4	AD	30	LYS

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Mol	Chain	Res	Type
4	AD	109	GLY
5	AE	73	ASN
5	AE	153	LYS
6	AF	39	LYS
6	AF	62	TRP
7	AG	77	SER
7	AG	155	ARG
8	AH	70	GLN
8	AH	71	GLY
9	AI	105	ASP
10	AJ	56	HIS
10	AJ	57	LYS
10	AJ	75	ILE
11	AK	89	ALA
12	AL	47	LYS
12	AL	106	ASP
13	AM	83	ASP
13	AM	113	PRO
13	AM	117	VAL
14	AN	22	THR
14	AN	23	ARG
16	AP	24	ALA
16	AP	78	GLY
17	AQ	69	LYS
17	AQ	74	LEU
18	AR	45	SER
18	AR	87	ARG
19	AS	5	LEU
19	AS	10	PHE
19	AS	28	LYS
19	AS	80	TYR
20	AT	49	ALA
20	AT	99	LEU
24	AY	33	LEU
24	AY	52	ALA
24	AY	110	PRO
24	AY	160	PRO
24	AY	312	ARG
24	AY	338	ASP
25	B0	55	ARG
26	B1	45	ASN
26	B1	52	ARG

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Mol	Chain	Res	Type
26	B1	83	GLU
26	B1	95	LEU
27	B2	43	GLN
27	B2	44	LEU
27	B2	47	ASN
27	B2	58	ALA
27	B2	68	ARG
28	B3	38	GLU
28	B3	49	LYS
29	B4	61	VAL
30	B5	4	HIS
30	B5	47	PRO
30	B5	49	CYS
30	B5	50	GLY
31	B6	17	LYS
31	B6	20	ASN
31	B6	28	ARG
31	B6	31	PRO
31	B6	33	LYS
31	B6	52	VAL
33	B8	61	LEU
37	BC	38	ASP
37	BC	48	GLY
37	BC	123	VAL
37	BC	133	PRO
37	BC	140	PRO
37	BC	145	VAL
37	BC	151	GLU
37	BC	161	ILE
37	BC	172	HIS
37	BC	173	ALA
37	BC	174	PRO
37	BC	182	PRO
37	BC	195	ALA
37	BC	200	LYS
37	BC	214	VAL
37	BC	220	PRO
38	BD	26	LYS
38	BD	34	VAL
38	BD	35	LYS
38	BD	44	ASN
38	BD	236	GLY

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Mol	Chain	Res	Type
38	BD	239	ARG
38	BD	244	ARG
38	BD	272	ALA
39	BE	4	ILE
39	BE	35	GLN
39	BE	54	GLN
39	BE	66	HIS
39	BE	68	ALA
39	BE	69	LYS
39	BE	83	ASP
39	BE	90	THR
39	BE	131	ALA
39	BE	132	HIS
39	BE	189	PRO
40	BF	2	LYS
40	BF	10	PRO
40	BF	11	VAL
40	BF	132	VAL
40	BF	133	ASN
41	BG	6	ALA
41	BG	12	TYR
41	BG	75	LYS
41	BG	87	PRO
41	BG	109	VAL
41	BG	110	ALA
41	BG	117	PHE
41	BG	142	PRO
41	BG	145	THR
42	BH	20	ALA
42	BH	42	ARG
42	BH	83	TYR
42	BH	89	ILE
42	BH	90	LYS
42	BH	92	ILE
42	BH	127	GLU
42	BH	138	LYS
42	BH	155	SER
42	BH	156	ALA
42	BH	159	GLU
43	BI	14	ASP
43	BI	30	LEU
43	BI	33	ARG

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Mol	Chain	Res	Type
43	BI	35	LEU
43	BI	86	THR
43	BI	89	TYR
43	BI	120	ILE
45	BK	5	VAL
45	BK	14	ALA
45	BK	18	THR
45	BK	88	ALA
45	BK	115	LEU
45	BK	116	ASN
46	BN	8	GLN
46	BN	63	THR
46	BN	83	LYS
46	BN	134	ARG
47	BO	50	GLY
48	BP	15	ARG
48	BP	31	ALA
48	BP	40	SER
48	BP	52	GLU
48	BP	57	THR
48	BP	61	ARG
48	BP	65	ARG
48	BP	70	GLN
48	BP	71	VAL
48	BP	103	ALA
48	BP	108	LYS
48	BP	125	VAL
48	BP	141	ALA
48	BP	147	LEU
49	BQ	2	LEU
49	BQ	19	GLY
49	BQ	62	GLY
50	BR	8	ARG
50	BR	59	ASP
50	BR	82	GLU
50	BR	107	ASP
51	BS	18	ILE
51	BS	23	ARG
51	BS	53	SER
51	BS	59	LYS
51	BS	63	THR
51	BS	92	TYR

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Mol	Chain	Res	Type
51	BS	97	ARG
51	BS	102	ALA
52	BT	18	ASP
52	BT	24	PRO
52	BT	27	THR
52	BT	28	VAL
52	BT	29	ARG
52	BT	30	VAL
52	BT	32	TYR
52	BT	40	THR
52	BT	58	ASN
52	BT	80	SER
52	BT	85	LYS
52	BT	105	LEU
52	BT	107	ASP
52	BT	136	GLN
53	BU	9	VAL
53	BU	25	TRP
53	BU	32	PHE
53	BU	93	LYS
54	BV	16	PRO
54	BV	18	LEU
54	BV	46	VAL
57	BY	3	VAL
57	BY	7	VAL
57	BY	17	SER
57	BY	42	VAL
57	BY	49	VAL
57	BY	50	ARG
57	BY	52	SER
57	BY	63	LYS
57	BY	66	PRO
57	BY	77	PRO
57	BY	78	ALA
57	BY	81	LYS
57	BY	82	PRO
57	BY	96	ILE
58	BZ	64	GLY
58	BZ	81	ARG
58	BZ	105	VAL
58	BZ	108	PRO
58	BZ	109	ALA

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Mol	Chain	Res	Type
58	BZ	135	GLU
58	BZ	141	VAL
58	BZ	152	ALA
58	BZ	171	ILE
2	CB	15	VAL
2	CB	20	GLU
2	CB	88	ALA
2	CB	95	GLN
2	CB	195	ASP
2	CB	238	LEU
3	CC	157	ILE
3	CC	168	ALA
3	CC	179	ARG
3	CC	207	VAL
4	CD	3	ARG
4	CD	14	ARG
4	CD	29	PRO
4	CD	30	LYS
4	CD	109	GLY
5	CE	73	ASN
5	CE	153	LYS
6	CF	39	LYS
6	CF	62	TRP
7	CG	77	SER
7	CG	155	ARG
8	CH	70	GLN
8	CH	71	GLY
9	CI	105	ASP
10	CJ	57	LYS
10	CJ	75	ILE
11	CK	89	ALA
12	CL	47	LYS
12	CL	106	ASP
13	CM	49	THR
13	CM	83	ASP
13	CM	113	PRO
13	CM	117	VAL
14	CN	22	THR
14	CN	23	ARG
16	CP	24	ALA
16	CP	78	GLY
17	CQ	69	LYS

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Mol	Chain	Res	Type
17	CQ	74	LEU
18	CR	45	SER
18	CR	87	ARG
19	CS	5	LEU
19	CS	10	PHE
19	CS	28	LYS
19	CS	80	TYR
20	CT	49	ALA
20	CT	99	LEU
24	CY	13	LEU
24	CY	45	ALA
24	CY	110	PRO
24	CY	264	THR
24	CY	302	VAL
24	CY	319	ASN
25	D0	55	ARG
26	D1	83	GLU
27	D2	44	LEU
27	D2	45	SER
27	D2	47	ASN
27	D2	48	HIS
28	D3	38	GLU
28	D3	49	LYS
59	D4	61	VAL
30	D5	4	HIS
30	D5	38	ALA
30	D5	47	PRO
30	D5	49	CYS
30	D5	50	GLY
31	D6	17	LYS
31	D6	20	ASN
31	D6	28	ARG
31	D6	31	PRO
31	D6	33	LYS
31	D6	52	VAL
33	D8	61	LEU
37	DC	38	ASP
37	DC	48	GLY
37	DC	58	VAL
37	DC	123	VAL
37	DC	133	PRO
37	DC	140	PRO

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Mol	Chain	Res	Type
37	DC	145	VAL
37	DC	151	GLU
37	DC	161	ILE
37	DC	172	HIS
37	DC	173	ALA
37	DC	174	PRO
37	DC	182	PRO
37	DC	195	ALA
37	DC	200	LYS
37	DC	214	VAL
37	DC	220	PRO
38	DD	26	LYS
38	DD	34	VAL
38	DD	35	LYS
38	DD	44	ASN
38	DD	236	GLY
38	DD	239	ARG
38	DD	244	ARG
38	DD	272	ALA
39	DE	4	ILE
39	DE	35	GLN
39	DE	54	GLN
39	DE	66	HIS
39	DE	68	ALA
39	DE	69	LYS
39	DE	83	ASP
39	DE	90	THR
39	DE	131	ALA
39	DE	132	HIS
39	DE	189	PRO
40	DF	2	LYS
40	DF	10	PRO
40	DF	11	VAL
40	DF	132	VAL
40	DF	133	ASN
41	DG	6	ALA
41	DG	14	GLU
41	DG	43	LEU
41	DG	81	LYS
41	DG	84	LYS
41	DG	86	MET
41	DG	87	PRO

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Mol	Chain	Res	Type
41	DG	115	ARG
41	DG	155	MET
41	DG	175	LEU
42	DH	20	ALA
42	DH	42	ARG
42	DH	83	TYR
42	DH	89	ILE
42	DH	90	LYS
42	DH	92	ILE
42	DH	127	GLU
42	DH	138	LYS
42	DH	155	SER
42	DH	156	ALA
42	DH	159	GLU
60	DI	8	PRO
60	DI	11	ASN
60	DI	12	LEU
60	DI	15	VAL
60	DI	17	GLN
60	DI	75	LEU
60	DI	81	VAL
60	DI	97	ILE
60	DI	115	ALA
45	DK	5	VAL
45	DK	14	ALA
45	DK	18	THR
45	DK	88	ALA
45	DK	115	LEU
45	DK	116	ASN
46	DN	8	GLN
46	DN	47	ALA
46	DN	63	THR
46	DN	83	LYS
46	DN	125	GLY
46	DN	134	ARG
47	DO	50	GLY
48	DP	15	ARG
48	DP	31	ALA
48	DP	40	SER
48	DP	52	GLU
48	DP	57	THR
48	DP	61	ARG

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Mol	Chain	Res	Type
48	DP	65	ARG
48	DP	70	GLN
48	DP	71	VAL
48	DP	103	ALA
48	DP	108	LYS
48	DP	125	VAL
48	DP	141	ALA
48	DP	147	LEU
49	DQ	2	LEU
49	DQ	19	GLY
50	DR	8	ARG
50	DR	59	ASP
50	DR	82	GLU
50	DR	107	ASP
51	DS	18	ILE
51	DS	23	ARG
51	DS	53	SER
51	DS	59	LYS
51	DS	63	THR
51	DS	92	TYR
51	DS	97	ARG
51	DS	102	ALA
52	DT	18	ASP
52	DT	24	PRO
52	DT	27	THR
52	DT	28	VAL
52	DT	29	ARG
52	DT	30	VAL
52	DT	32	TYR
52	DT	40	THR
52	DT	58	ASN
52	DT	80	SER
52	DT	85	LYS
52	DT	105	LEU
52	DT	107	ASP
52	DT	136	GLN
53	DU	9	VAL
53	DU	25	TRP
53	DU	90	VAL
53	DU	93	LYS
54	DV	16	PRO
54	DV	18	LEU

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Mol	Chain	Res	Type
54	DV	46	VAL
54	DV	53	GLU
57	DY	3	VAL
57	DY	7	VAL
57	DY	17	SER
57	DY	42	VAL
57	DY	49	VAL
57	DY	50	ARG
57	DY	52	SER
57	DY	63	LYS
57	DY	66	PRO
57	DY	77	PRO
57	DY	78	ALA
57	DY	81	LYS
57	DY	82	PRO
58	DZ	64	GLY
58	DZ	65	GLN
58	DZ	93	ASP
58	DZ	108	PRO
58	DZ	109	ALA
58	DZ	112	ARG
58	DZ	120	ILE
58	DZ	136	PHE
58	DZ	152	ALA
58	DZ	166	SER
2	AB	9	GLU
2	AB	18	GLY
2	AB	24	TRP
2	AB	154	LEU
2	AB	194	PRO
3	AC	12	LEU
3	AC	16	ARG
3	AC	47	LEU
3	AC	51	GLY
3	AC	60	ALA
3	AC	61	ALA
3	AC	103	VAL
3	AC	104	GLN
3	AC	145	GLY
3	AC	181	ASN
4	AD	5	ILE
4	AD	15	GLU

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Mol	Chain	Res	Type
4	AD	84	LYS
4	AD	129	ASN
4	AD	154	ASN
5	AE	11	ILE
5	AE	27	ARG
5	AE	49	PRO
5	AE	108	ALA
5	AE	137	GLU
6	AF	13	ASN
6	AF	34	GLY
7	AG	137	LYS
7	AG	149	ARG
8	AH	6	ILE
8	AH	86	ILE
8	AH	104	ARG
8	AH	111	ILE
9	AI	44	VAL
9	AI	56	LEU
10	AJ	24	VAL
10	AJ	36	GLY
10	AJ	51	ARG
10	AJ	59	SER
12	AL	28	LYS
12	AL	82	VAL
12	AL	89	ARG
12	AL	115	LYS
13	AM	4	ILE
13	AM	6	GLY
13	AM	49	THR
13	AM	100	GLY
13	AM	116	THR
13	AM	120	LYS
14	AN	15	LYS
14	AN	16	PHE
14	AN	29	ARG
14	AN	52	GLN
15	AO	16	ALA
15	AO	26	GLU
16	AP	48	TRP
16	AP	63	GLY
16	AP	65	GLN
17	AQ	33	GLY

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Mol	Chain	Res	Type
17	AQ	34	LYS
17	AQ	82	MET
18	AR	37	VAL
19	AS	26	GLY
19	AS	30	LEU
19	AS	44	MET
20	AT	47	GLY
20	AT	95	ALA
20	AT	100	ILE
24	AY	11	GLU
24	AY	36	PRO
24	AY	53	ALA
24	AY	107	LEU
24	AY	113	GLU
24	AY	159	GLY
24	AY	319	ASN
24	AY	342	MET
24	AY	353	ALA
25	B0	11	ARG
25	B0	13	GLY
25	B0	15	ASP
26	B1	30	VAL
26	B1	84	GLY
26	B1	85	LEU
27	B2	57	ILE
28	B3	3	ARG
28	B3	4	LEU
28	B3	51	ALA
29	B4	50	THR
29	B4	65	CYS
30	B5	38	ALA
30	B5	48	GLU
30	B5	56	LYS
30	B5	57	VAL
31	B6	15	GLU
31	B6	16	CYS
31	B6	23	THR
31	B6	34	LEU
31	B6	35	GLU
31	B6	41	PRO
33	B8	32	LEU
33	B8	34	TRP

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Mol	Chain	Res	Type
33	B8	37	SER
33	B8	40	GLU
33	B8	64	TYR
37	BC	58	VAL
37	BC	77	ILE
37	BC	121	GLY
37	BC	129	ARG
37	BC	131	LEU
37	BC	156	ILE
37	BC	171	ILE
37	BC	175	VAL
37	BC	193	ILE
37	BC	215	THR
38	BD	156	ALA
38	BD	198	ASN
38	BD	202	LYS
38	BD	246	PRO
38	BD	267	SER
39	BE	2	LYS
39	BE	53	PRO
39	BE	57	LYS
39	BE	71	GLY
39	BE	76	ARG
39	BE	77	ILE
39	BE	88	GLY
39	BE	118	LYS
39	BE	186	GLY
39	BE	187	ALA
39	BE	190	GLY
40	BF	3	GLU
40	BF	21	ALA
40	BF	22	ALA
40	BF	24	LEU
40	BF	122	LYS
40	BF	130	ALA
40	BF	131	GLY
40	BF	134	GLY
41	BG	7	LEU
41	BG	13	GLU
41	BG	76	SER
41	BG	83	ARG
41	BG	116	ASP

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Mol	Chain	Res	Type
42	BH	13	LYS
42	BH	36	PRO
42	BH	46	GLU
42	BH	95	ARG
42	BH	114	VAL
42	BH	157	TYR
45	BK	31	GLY
45	BK	50	ASP
46	BN	36	GLY
46	BN	47	ALA
46	BN	57	ALA
46	BN	58	ASP
46	BN	59	LYS
46	BN	64	GLY
46	BN	125	GLY
46	BN	129	PRO
47	BO	26	LYS
47	BO	29	ASN
48	BP	11	GLY
48	BP	17	LYS
48	BP	19	VAL
48	BP	34	GLY
48	BP	46	LYS
48	BP	49	ARG
48	BP	109	GLY
48	BP	139	LYS
49	BQ	115	MET
50	BR	31	HIS
50	BR	42	LYS
51	BS	14	VAL
51	BS	90	GLY
51	BS	96	GLY
51	BS	104	GLY
52	BT	2	ASN
52	BT	35	LYS
52	BT	41	ARG
52	BT	83	ILE
52	BT	101	PHE
52	BT	119	LYS
52	BT	129	ARG
53	BU	90	VAL
54	BV	19	LYS

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Mol	Chain	Res	Type
54	BV	22	VAL
54	BV	40	LEU
54	BV	53	GLU
54	BV	54	GLY
55	BW	11	ARG
55	BW	67	ASP
56	BX	22	ALA
57	BY	29	GLU
57	BY	48	ALA
57	BY	53	PRO
57	BY	69	ALA
57	BY	75	ILE
57	BY	90	LEU
57	BY	92	ASN
58	BZ	12	GLY
58	BZ	31	ARG
58	BZ	122	ARG
58	BZ	139	VAL
58	BZ	151	HIS
58	BZ	165	VAL
2	CB	9	GLU
2	CB	18	GLY
2	CB	24	TRP
2	CB	154	LEU
2	CB	194	PRO
2	CB	221	LEU
3	CC	12	LEU
3	CC	16	ARG
3	CC	47	LEU
3	CC	51	GLY
3	CC	60	ALA
3	CC	61	ALA
3	CC	103	VAL
3	CC	104	GLN
3	CC	145	GLY
3	CC	181	ASN
4	CD	5	ILE
4	CD	15	GLU
4	CD	129	ASN
4	CD	154	ASN
5	CE	11	ILE
5	CE	27	ARG

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Mol	Chain	Res	Type
5	CE	49	PRO
5	CE	108	ALA
5	CE	137	GLU
6	CF	13	ASN
6	CF	34	GLY
7	CG	16	LEU
7	CG	137	LYS
7	CG	149	ARG
8	CH	86	ILE
8	CH	104	ARG
8	CH	111	ILE
9	CI	44	VAL
9	CI	56	LEU
10	CJ	24	VAL
10	CJ	36	GLY
10	CJ	51	ARG
10	CJ	56	HIS
10	CJ	59	SER
12	CL	82	VAL
12	CL	89	ARG
12	CL	115	LYS
13	CM	4	ILE
13	CM	6	GLY
13	CM	100	GLY
13	CM	116	THR
13	CM	120	LYS
14	CN	15	LYS
14	CN	16	PHE
14	CN	29	ARG
14	CN	52	GLN
15	CO	16	ALA
15	CO	26	GLU
16	CP	40	ASP
16	CP	48	TRP
16	CP	63	GLY
16	CP	65	GLN
17	CQ	33	GLY
17	CQ	34	LYS
17	CQ	82	MET
18	CR	37	VAL
19	CS	26	GLY
19	CS	30	LEU

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Mol	Chain	Res	Type
19	CS	44	MET
20	CT	47	GLY
20	CT	95	ALA
20	CT	100	ILE
24	CY	12	GLY
24	CY	126	GLY
24	CY	324	HIS
24	CY	341	LEU
25	D0	11	ARG
25	D0	13	GLY
26	D1	45	ASN
26	D1	53	VAL
26	D1	85	LEU
27	D2	17	SER
27	D2	43	GLN
28	D3	3	ARG
28	D3	4	LEU
28	D3	51	ALA
59	D4	50	THR
30	D5	48	GLU
30	D5	56	LYS
30	D5	57	VAL
31	D6	15	GLU
31	D6	16	CYS
31	D6	23	THR
31	D6	34	LEU
31	D6	35	GLU
31	D6	41	PRO
33	D8	32	LEU
33	D8	34	TRP
33	D8	37	SER
33	D8	40	GLU
33	D8	64	TYR
37	DC	77	ILE
37	DC	121	GLY
37	DC	129	ARG
37	DC	131	LEU
37	DC	156	ILE
37	DC	170	ALA
37	DC	171	ILE
37	DC	175	VAL
37	DC	193	ILE

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Mol	Chain	Res	Type
37	DC	215	THR
38	DD	156	ALA
38	DD	198	ASN
38	DD	202	LYS
38	DD	246	PRO
38	DD	267	SER
39	DE	2	LYS
39	DE	53	PRO
39	DE	57	LYS
39	DE	71	GLY
39	DE	76	ARG
39	DE	77	ILE
39	DE	88	GLY
39	DE	118	LYS
39	DE	186	GLY
39	DE	187	ALA
39	DE	190	GLY
40	DF	3	GLU
40	DF	21	ALA
40	DF	22	ALA
40	DF	24	LEU
40	DF	122	LYS
40	DF	130	ALA
40	DF	131	GLY
40	DF	134	GLY
41	DG	21	ARG
41	DG	42	GLY
41	DG	79	ASN
41	DG	126	ASP
42	DH	13	LYS
42	DH	36	PRO
42	DH	46	GLU
42	DH	95	ARG
42	DH	114	VAL
42	DH	157	TYR
60	DI	34	GLY
60	DI	112	LYS
45	DK	31	GLY
45	DK	50	ASP
46	DN	57	ALA
46	DN	58	ASP
46	DN	59	LYS

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Mol	Chain	Res	Type
46	DN	64	GLY
46	DN	129	PRO
47	DO	26	LYS
47	DO	29	ASN
48	DP	11	GLY
48	DP	17	LYS
48	DP	19	VAL
48	DP	34	GLY
48	DP	46	LYS
48	DP	49	ARG
48	DP	109	GLY
48	DP	139	LYS
49	DQ	62	GLY
49	DQ	115	MET
50	DR	42	LYS
51	DS	14	VAL
51	DS	90	GLY
51	DS	96	GLY
52	DT	2	ASN
52	DT	35	LYS
52	DT	41	ARG
52	DT	83	ILE
52	DT	101	PHE
52	DT	119	LYS
52	DT	129	ARG
53	DU	32	PHE
54	DV	19	LYS
54	DV	22	VAL
54	DV	35	LEU
54	DV	40	LEU
54	DV	54	GLY
55	DW	11	ARG
55	DW	67	ASP
56	DX	22	ALA
57	DY	29	GLU
57	DY	48	ALA
57	DY	53	PRO
57	DY	69	ALA
57	DY	75	ILE
57	DY	90	LEU
57	DY	92	ASN
57	DY	96	ILE

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Mol	Chain	Res	Type
58	DZ	56	VAL
58	DZ	62	PRO
58	DZ	63	ASP
58	DZ	110	GLY
58	DZ	168	GLU
58	DZ	177	PRO
2	AB	78	GLN
2	AB	98	LEU
2	AB	110	GLN
2	AB	221	LEU
3	AC	20	SER
3	AC	101	LEU
3	AC	150	LYS
4	AD	40	PRO
4	AD	160	GLN
4	AD	168	ARG
5	AE	136	MET
5	AE	147	ASP
6	AF	43	LEU
7	AG	7	ALA
7	AG	16	LEU
7	AG	58	PRO
7	AG	121	ALA
8	AH	22	GLU
8	AH	34	GLU
8	AH	105	ARG
8	AH	121	ASP
8	AH	133	LEU
9	AI	11	LYS
9	AI	60	ASP
9	AI	90	PRO
9	AI	91	ASP
9	AI	94	ALA
10	AJ	54	PHE
10	AJ	93	GLY
12	AL	27	LEU
13	AM	68	GLY
13	AM	90	LEU
15	AO	86	GLY
16	AP	40	ASP
17	AQ	3	LYS
17	AQ	25	ARG

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Mol	Chain	Res	Type
17	AQ	31	LEU
19	AS	81	ARG
20	AT	74	LYS
20	AT	75	ASN
24	AY	12	GLY
24	AY	28	GLU
24	AY	34	GLU
24	AY	101	LEU
24	AY	139	MET
24	AY	143	PHE
25	B0	41	ARG
25	B0	72	ARG
26	B1	55	GLY
27	B2	10	LEU
27	B2	48	HIS
28	B3	48	GLU
30	B5	36	CYS
33	B8	31	HIS
33	B8	46	ARG
37	BC	57	ASN
37	BC	70	LYS
37	BC	80	GLY
37	BC	153	ILE
37	BC	170	ALA
37	BC	199	HIS
37	BC	203	GLY
37	BC	205	LYS
37	BC	209	LEU
37	BC	213	TYR
38	BD	52	ARG
38	BD	162	SER
38	BD	169	GLU
38	BD	208	LYS
38	BD	224	ALA
38	BD	263	ARG
39	BE	18	ASP
39	BE	29	GLY
39	BE	52	LEU
39	BE	82	ARG
40	BF	26	ALA
40	BF	84	VAL
40	BF	89	VAL

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Mol	Chain	Res	Type
40	BF	145	GLU
41	BG	30	GLU
41	BG	62	LEU
41	BG	106	LEU
41	BG	112	PRO
41	BG	151	ALA
41	BG	179	PRO
42	BH	84	SER
42	BH	115	VAL
43	BI	5	LEU
43	BI	34	GLY
43	BI	114	LEU
45	BK	126	MET
46	BN	88	GLU
46	BN	89	LYS
47	BO	5	GLN
47	BO	48	PRO
48	BP	18	ARG
48	BP	88	LEU
48	BP	90	ARG
48	BP	107	LYS
48	BP	135	LEU
49	BQ	6	ARG
49	BQ	49	ALA
50	BR	14	SER
50	BR	32	GLY
50	BR	78	LYS
50	BR	102	GLU
51	BS	42	ASP
51	BS	88	ASP
51	BS	89	ARG
51	BS	107	GLU
52	BT	33	LYS
52	BT	81	PRO
52	BT	103	ARG
53	BU	87	GLY
54	BV	24	LYS
54	BV	35	LEU
55	BW	111	HIS
57	BY	38	ILE
58	BZ	65	GLN
58	BZ	93	ASP

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Mol	Chain	Res	Type
58	BZ	101	PRO
58	BZ	119	GLU
58	BZ	172	ALA
58	BZ	177	PRO
2	CB	78	GLN
2	CB	98	LEU
2	CB	110	GLN
3	CC	20	SER
3	CC	101	LEU
3	CC	150	LYS
4	CD	40	PRO
4	CD	84	LYS
4	CD	168	ARG
4	CD	200	GLU
5	CE	147	ASP
6	CF	43	LEU
7	CG	7	ALA
7	CG	58	PRO
7	CG	121	ALA
8	CH	6	ILE
8	CH	22	GLU
8	CH	34	GLU
8	CH	105	ARG
8	CH	121	ASP
8	CH	133	LEU
9	CI	11	LYS
9	CI	90	PRO
9	CI	91	ASP
9	CI	94	ALA
10	CJ	46	ARG
10	CJ	54	PHE
12	CL	27	LEU
12	CL	28	LYS
13	CM	90	LEU
15	CO	86	GLY
17	CQ	3	LYS
17	CQ	25	ARG
17	CQ	31	LEU
17	CQ	81	ARG
20	CT	74	LYS
20	CT	75	ASN
24	CY	16	TYR

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Mol	Chain	Res	Type
24	CY	32	ARG
24	CY	69	LEU
24	CY	144	ALA
24	CY	160	PRO
24	CY	199	GLY
24	CY	308	GLY
25	D0	15	ASP
25	D0	41	ARG
25	D0	72	ARG
27	D2	3	LEU
30	D5	36	CYS
37	DC	57	ASN
37	DC	70	LYS
37	DC	80	GLY
37	DC	153	ILE
37	DC	199	HIS
37	DC	203	GLY
37	DC	205	LYS
37	DC	209	LEU
37	DC	213	TYR
38	DD	56	GLY
38	DD	162	SER
38	DD	169	GLU
38	DD	208	LYS
38	DD	224	ALA
38	DD	263	ARG
39	DE	18	ASP
39	DE	29	GLY
39	DE	52	LEU
39	DE	82	ARG
40	DF	26	ALA
40	DF	84	VAL
40	DF	145	GLU
41	DG	117	PHE
41	DG	171	ALA
41	DG	174	GLU
42	DH	84	SER
60	DI	9	LEU
60	DI	14	ASP
60	DI	63	ALA
60	DI	72	LEU
60	DI	116	LEU

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Mol	Chain	Res	Type
60	DI	134	PRO
45	DK	126	MET
46	DN	36	GLY
46	DN	76	SER
46	DN	88	GLU
46	DN	89	LYS
47	DO	5	GLN
48	DP	18	ARG
48	DP	88	LEU
48	DP	90	ARG
48	DP	107	LYS
48	DP	135	LEU
49	DQ	6	ARG
49	DQ	49	ALA
50	DR	14	SER
50	DR	31	HIS
50	DR	32	GLY
50	DR	78	LYS
50	DR	102	GLU
51	DS	88	ASP
51	DS	89	ARG
51	DS	104	GLY
51	DS	107	GLU
52	DT	33	LYS
52	DT	81	PRO
52	DT	103	ARG
52	DT	132	LYS
54	DV	24	LYS
55	DW	111	HIS
57	DY	38	ILE
58	DZ	34	ASN
58	DZ	146	ILE
2	AB	130	ARG
2	AB	189	ASP
3	AC	81	GLY
3	AC	146	ALA
4	AD	9	CYS
4	AD	166	LYS
4	AD	191	ARG
6	AF	14	LEU
10	AJ	46	ARG
12	AL	48	PRO

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Mol	Chain	Res	Type
12	AL	121	GLY
16	AP	26	ARG
16	AP	58	TYR
17	AQ	81	ARG
18	AR	47	THR
20	AT	25	ARG
20	AT	46	GLU
20	AT	96	GLY
21	AU	3	LYS
21	AU	9	ARG
24	AY	43	GLU
24	AY	180	LEU
24	AY	337	LEU
24	AY	340	ASP
26	B1	51	VAL
26	B1	53	VAL
26	B1	54	ALA
37	BC	52	ARG
37	BC	64	LEU
37	BC	208	PHE
38	BD	56	GLY
38	BD	123	ALA
38	BD	132	PRO
38	BD	206	LEU
39	BE	17	ASP
39	BE	61	ARG
41	BG	3	LEU
41	BG	10	LYS
41	BG	16	ARG
41	BG	63	ILE
41	BG	81	LYS
41	BG	86	MET
42	BH	29	PRO
42	BH	119	GLU
42	BH	145	ALA
42	BH	160	LYS
42	BH	166	GLY
43	BI	13	GLY
45	BK	42	ASN
45	BK	63	ARG
45	BK	89	HIS
46	BN	6	PRO

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Mol	Chain	Res	Type
46	BN	66	LYS
46	BN	76	SER
46	BN	127	ASP
48	BP	10	PRO
48	BP	14	LYS
48	BP	42	SER
48	BP	84	ASN
48	BP	99	LEU
49	BQ	20	ALA
50	BR	5	LYS
50	BR	106	GLY
51	BS	17	ARG
51	BS	78	LEU
52	BT	68	TYR
52	BT	82	LEU
52	BT	88	ILE
52	BT	132	LYS
53	BU	86	ALA
54	BV	26	ASP
57	BY	31	LEU
57	BY	39	VAL
57	BY	62	GLU
57	BY	74	PRO
58	BZ	30	ASN
58	BZ	134	PRO
2	CB	130	ARG
2	CB	189	ASP
3	CC	146	ALA
4	CD	9	CYS
4	CD	160	GLN
4	CD	166	LYS
4	CD	191	ARG
5	CE	128	PRO
5	CE	136	MET
6	CF	14	LEU
9	CI	60	ASP
10	CJ	93	GLY
11	CK	48	ILE
12	CL	48	PRO
13	CM	68	GLY
16	CP	58	TYR
18	CR	47	THR

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Mol	Chain	Res	Type
18	CR	66	LEU
19	CS	81	ARG
20	CT	25	ARG
20	CT	46	GLU
20	CT	96	GLY
21	CU	9	ARG
24	CY	11	GLU
24	CY	31	ARG
24	CY	36	PRO
24	CY	46	ARG
24	CY	100	GLU
24	CY	146	ARG
24	CY	191	ARG
24	CY	298	LEU
24	CY	320	TYR
24	CY	328	LEU
26	D1	30	VAL
26	D1	64	ALA
26	D1	69	LYS
27	D2	35	LEU
30	D5	51	TYR
31	D6	22	ALA
33	D8	31	HIS
37	DC	64	LEU
37	DC	208	PHE
38	DD	52	ARG
38	DD	123	ALA
38	DD	132	PRO
38	DD	188	GLU
38	DD	206	LEU
39	DE	17	ASP
39	DE	61	ARG
40	DF	16	GLY
40	DF	89	VAL
41	DG	82	LEU
41	DG	104	GLU
42	DH	29	PRO
42	DH	115	VAL
42	DH	119	GLU
42	DH	145	ALA
42	DH	160	LYS
60	DI	35	LEU

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Mol	Chain	Res	Type
60	DI	48	GLU
60	DI	89	TYR
45	DK	42	ASN
45	DK	63	ARG
45	DK	89	HIS
46	DN	6	PRO
46	DN	62	VAL
46	DN	127	ASP
47	DO	48	PRO
47	DO	101	PRO
48	DP	10	PRO
48	DP	14	LYS
48	DP	42	SER
48	DP	84	ASN
48	DP	99	LEU
48	DP	129	ALA
50	DR	5	LYS
50	DR	106	GLY
51	DS	17	ARG
51	DS	42	ASP
52	DT	68	TYR
52	DT	82	LEU
52	DT	88	ILE
53	DU	86	ALA
53	DU	87	GLY
54	DV	26	ASP
57	DY	26	LYS
57	DY	31	LEU
57	DY	39	VAL
57	DY	62	GLU
57	DY	74	PRO
58	DZ	45	ASP
58	DZ	78	LYS
58	DZ	101	PRO
58	DZ	113	ALA
58	DZ	119	GLU
58	DZ	172	ALA
2	AB	181	PHE
2	AB	236	TYR
3	AC	29	TYR
4	AD	31	CYS
4	AD	99	SER

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Mol	Chain	Res	Type
4	AD	105	VAL
4	AD	172	PRO
4	AD	181	MET
4	AD	200	GLU
5	AE	52	PRO
5	AE	105	VAL
5	AE	128	PRO
5	AE	140	ARG
7	AG	115	ARG
9	AI	38	GLN
9	AI	49	PRO
9	AI	71	SER
10	AJ	33	GLN
10	AJ	82	ILE
11	AK	48	ILE
13	AM	21	TYR
13	AM	60	VAL
13	AM	106	ASN
14	AN	13	THR
15	AO	24	SER
17	AQ	46	ASP
17	AQ	56	VAL
18	AR	36	ASN
18	AR	63	GLN
18	AR	66	LEU
24	AY	14	ARG
27	B2	17	SER
30	B5	51	TYR
31	B6	22	ALA
37	BC	21	THR
37	BC	78	ALA
37	BC	95	GLY
38	BD	64	ILE
38	BD	79	VAL
38	BD	188	GLU
38	BD	222	ARG
39	BE	45	THR
40	BF	9	ILE
40	BF	136	THR
40	BF	165	ARG
41	BG	43	LEU
41	BG	74	LYS

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Mol	Chain	Res	Type
41	BG	140	ILE
42	BH	39	PRO
42	BH	93	GLY
45	BK	8	VAL
45	BK	13	PRO
45	BK	22	PRO
45	BK	36	GLU
45	BK	91	PRO
47	BO	101	PRO
48	BP	9	ASN
48	BP	33	ARG
48	BP	115	LEU
48	BP	129	ALA
49	BQ	136	ALA
50	BR	45	ARG
50	BR	117	VAL
51	BS	83	LYS
53	BU	79	PHE
54	BV	3	ALA
54	BV	23	GLU
54	BV	31	ALA
55	BW	6	ILE
57	BY	9	LYS
57	BY	26	LYS
57	BY	55	TYR
57	BY	67	LEU
58	BZ	27	VAL
58	BZ	166	SER
2	CB	181	PHE
2	CB	236	TYR
3	CC	81	GLY
4	CD	99	SER
4	CD	172	PRO
4	CD	181	MET
5	CE	52	PRO
5	CE	105	VAL
7	CG	115	ARG
9	CI	38	GLN
9	CI	49	PRO
9	CI	71	SER
9	CI	107	ARG
10	CJ	33	GLN

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Mol	Chain	Res	Type
10	CJ	82	ILE
11	CK	121	PRO
12	CL	121	GLY
13	CM	21	TYR
13	CM	60	VAL
13	CM	106	ASN
14	CN	13	THR
15	CO	24	SER
16	CP	26	ARG
17	CQ	46	ASP
17	CQ	56	VAL
18	CR	36	ASN
24	CY	40	ASN
24	CY	255	PRO
24	CY	337	LEU
27	D2	36	ARG
28	D3	48	GLU
33	D8	46	ARG
37	DC	21	THR
37	DC	52	ARG
37	DC	78	ALA
37	DC	95	GLY
38	DD	64	ILE
38	DD	79	VAL
39	DE	45	THR
39	DE	98	PRO
39	DE	185	LYS
40	DF	9	ILE
40	DF	136	THR
40	DF	165	ARG
40	DF	172	TRP
41	DG	30	GLU
41	DG	52	ILE
41	DG	110	ALA
41	DG	127	GLY
42	DH	25	LYS
42	DH	39	PRO
42	DH	93	GLY
42	DH	166	GLY
60	DI	96	ASP
45	DK	13	PRO
45	DK	22	PRO

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Mol	Chain	Res	Type
45	DK	23	VAL
45	DK	36	GLU
46	DN	66	LYS
48	DP	9	ASN
48	DP	35	HIS
48	DP	115	LEU
48	DP	137	LYS
49	DQ	20	ALA
49	DQ	78	PRO
49	DQ	136	ALA
50	DR	45	ARG
51	DS	83	LYS
51	DS	94	TYR
52	DT	36	GLU
53	DU	79	PHE
54	DV	3	ALA
54	DV	23	GLU
55	DW	6	ILE
55	DW	93	ALA
57	DY	55	TYR
57	DY	67	LEU
58	DZ	151	HIS
9	AI	107	ARG
11	AK	121	PRO
17	AQ	30	PRO
19	AS	19	VAL
19	AS	59	PRO
24	AY	81	ALA
24	AY	305	ILE
26	B1	87	PRO
27	B2	71	ASN
31	B6	46	HIS
33	B8	52	LYS
37	BC	19	VAL
37	BC	61	THR
37	BC	89	ALA
37	BC	212	VAL
39	BE	98	PRO
40	BF	172	TRP
41	BG	46	ALA
41	BG	84	LYS
42	BH	25	LYS

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Mol	Chain	Res	Type
42	BH	56	SER
42	BH	101	ARG
43	BI	115	ALA
43	BI	119	PRO
45	BK	23	VAL
46	BN	62	VAL
48	BP	35	HIS
48	BP	68	GLN
48	BP	137	LYS
51	BS	58	LEU
52	BT	36	GLU
53	BU	62	ILE
55	BW	93	ALA
56	BX	40	LYS
58	BZ	14	LYS
58	BZ	80	ARG
58	BZ	115	GLY
4	CD	7	PRO
4	CD	105	VAL
5	CE	140	ARG
14	CN	17	LYS
17	CQ	30	PRO
18	CR	63	GLN
19	CS	19	VAL
19	CS	59	PRO
21	CU	3	LYS
33	D8	52	LYS
37	DC	19	VAL
37	DC	212	VAL
41	DG	12	TYR
41	DG	50	ALA
41	DG	109	VAL
42	DH	56	SER
42	DH	101	ARG
45	DK	8	VAL
45	DK	91	PRO
48	DP	33	ARG
48	DP	68	GLN
50	DR	117	VAL
51	DS	58	LEU
53	DU	62	ILE
57	DY	9	LYS

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Mol	Chain	Res	Type
58	DZ	82	ARG
58	DZ	114	GLY
3	AC	114	PRO
4	AD	7	PRO
8	AH	57	PRO
16	AP	30	GLY
24	AY	214	VAL
24	AY	241	GLY
27	B2	18	PRO
37	BC	103	ILE
38	BD	125	ILE
39	BE	43	GLY
40	BF	16	GLY
41	BG	122	PRO
42	BH	19	VAL
53	BU	65	ILE
58	BZ	61	LEU
58	BZ	110	GLY
3	CC	114	PRO
8	CH	57	PRO
19	CS	45	VAL
37	DC	103	ILE
42	DH	19	VAL
53	DU	65	ILE
55	DW	12	ILE
11	AK	35	PRO
19	AS	45	VAL
20	AT	97	ALA
24	AY	20	PRO
39	BE	56	PRO
39	BE	75	VAL
40	BF	65	TRP
41	BG	101	ILE
43	BI	134	PRO
46	BN	40	PRO
49	BQ	78	PRO
55	BW	12	ILE
57	BY	37	VAL
58	BZ	71	VAL
11	CK	35	PRO
20	CT	97	ALA
24	CY	333	PRO

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Mol	Chain	Res	Type
38	DD	125	ILE
38	DD	271	ILE
39	DE	33	VAL
39	DE	43	GLY
39	DE	56	PRO
39	DE	75	VAL
24	AY	220	VAL
27	B2	6	VAL
37	BC	169	GLY
38	BD	243	GLY
38	BD	271	ILE
58	BZ	111	VAL
7	CG	9	VAL
27	D2	42	GLY
37	DC	169	GLY
38	DD	11	PRO
38	DD	243	GLY
40	DF	65	TRP
46	DN	40	PRO
47	DO	35	VAL
47	DO	98	VAL
57	DY	37	VAL
58	DZ	95	PRO
3	AC	55	VAL
3	AC	174	PRO
5	AE	70	PRO
5	AE	154	GLY
6	AF	96	PRO
7	AG	9	VAL
7	AG	17	VAL
24	AY	199	GLY
38	BD	249	PRO
40	BF	25	PRO
43	BI	16	GLY
57	BY	80	GLY
57	BY	98	VAL
2	CB	159	PRO
2	CB	239	VAL
5	CE	154	GLY
6	CF	96	PRO
24	CY	214	VAL
26	D1	84	GLY

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Mol	Chain	Res	Type
38	DD	249	PRO
39	DE	73	GLU
40	DF	25	PRO
51	DS	108	GLY
57	DY	98	VAL
2	AB	239	VAL
17	AQ	77	VAL
29	B4	37	PRO
39	BE	33	VAL
43	BI	80	PRO
3	CC	55	VAL
3	CC	174	PRO
5	CE	70	PRO
7	CG	17	VAL
16	CP	30	GLY
59	D4	37	PRO
42	DH	52	VAL
58	DZ	130	PRO
48	BP	48	PRO
48	DP	48	PRO
38	BD	245	PRO
38	DD	245	PRO

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	184 (91%)	18 (9%)	14	54
2	CB	202/220 (92%)	184 (91%)	18 (9%)	14	54
3	AC	160/188 (85%)	149 (93%)	11 (7%)	22	68
3	CC	160/188 (85%)	150 (94%)	10 (6%)	25	72
4	AD	180/181 (99%)	159 (88%)	21 (12%)	8	37
4	CD	180/181 (99%)	159 (88%)	21 (12%)	8	37
5	AE	115/123 (94%)	103 (90%)	12 (10%)	10	45
5	CE	115/123 (94%)	101 (88%)	14 (12%)	7	35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	AF	90/90 (100%)	86 (96%)	4 (4%)	39	83
6	CF	90/90 (100%)	86 (96%)	4 (4%)	39	83
7	AG	126/127 (99%)	117 (93%)	9 (7%)	21	66
7	CG	126/127 (99%)	118 (94%)	8 (6%)	25	72
8	AH	119/119 (100%)	105 (88%)	14 (12%)	8	37
8	CH	119/119 (100%)	105 (88%)	14 (12%)	8	37
9	AI	98/99 (99%)	88 (90%)	10 (10%)	11	46
9	CI	98/99 (99%)	88 (90%)	10 (10%)	11	46
10	AJ	88/92 (96%)	78 (89%)	10 (11%)	8	38
10	CJ	88/92 (96%)	78 (89%)	10 (11%)	8	38
11	AK	90/99 (91%)	84 (93%)	6 (7%)	23	69
11	CK	90/99 (91%)	84 (93%)	6 (7%)	23	69
12	AL	104/109 (95%)	98 (94%)	6 (6%)	28	74
12	CL	104/109 (95%)	96 (92%)	8 (8%)	18	63
13	AM	96/101 (95%)	83 (86%)	13 (14%)	6	30
13	CM	96/101 (95%)	83 (86%)	13 (14%)	6	30
14	AN	49/50 (98%)	46 (94%)	3 (6%)	26	73
14	CN	49/50 (98%)	46 (94%)	3 (6%)	26	73
15	AO	79/80 (99%)	76 (96%)	3 (4%)	44	85
15	CO	79/80 (99%)	76 (96%)	3 (4%)	44	85
16	AP	72/74 (97%)	64 (89%)	8 (11%)	9	41
16	CP	72/74 (97%)	64 (89%)	8 (11%)	9	41
17	AQ	94/97 (97%)	92 (98%)	2 (2%)	66	93
17	CQ	94/97 (97%)	92 (98%)	2 (2%)	66	93
18	AR	61/77 (79%)	57 (93%)	4 (7%)	24	70
18	CR	61/77 (79%)	57 (93%)	4 (7%)	24	70
19	AS	69/80 (86%)	61 (88%)	8 (12%)	8	38
19	CS	69/80 (86%)	61 (88%)	8 (12%)	8	38
20	AT	76/82 (93%)	70 (92%)	6 (8%)	18	61
20	CT	76/82 (93%)	70 (92%)	6 (8%)	18	61
21	AU	19/22 (86%)	18 (95%)	1 (5%)	32	77

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	CU	19/22 (86%)	19 (100%)	0	100	100
24	AY	298/298 (100%)	264 (89%)	34 (11%)	8	38
24	CY	298/298 (100%)	264 (89%)	34 (11%)	8	38
25	B0	61/67 (91%)	58 (95%)	3 (5%)	35	79
25	D0	61/67 (91%)	58 (95%)	3 (5%)	35	79
26	B1	78/83 (94%)	70 (90%)	8 (10%)	10	45
26	D1	78/83 (94%)	66 (85%)	12 (15%)	4	23
27	B2	66/67 (98%)	55 (83%)	11 (17%)	3	19
27	D2	66/67 (98%)	59 (89%)	7 (11%)	10	43
28	B3	51/52 (98%)	47 (92%)	4 (8%)	18	62
28	D3	51/52 (98%)	48 (94%)	3 (6%)	28	74
29	B4	27/63 (43%)	25 (93%)	2 (7%)	20	64
30	B5	51/52 (98%)	45 (88%)	6 (12%)	8	37
30	D5	51/52 (98%)	44 (86%)	7 (14%)	5	29
31	B6	43/52 (83%)	32 (74%)	11 (26%)	1	5
31	D6	43/52 (83%)	32 (74%)	11 (26%)	1	5
32	B7	41/42 (98%)	39 (95%)	2 (5%)	35	79
32	D7	41/42 (98%)	39 (95%)	2 (5%)	35	79
33	B8	53/55 (96%)	41 (77%)	12 (23%)	1	7
33	D8	53/55 (96%)	41 (77%)	12 (23%)	1	7
34	B9	33/34 (97%)	28 (85%)	5 (15%)	4	24
34	D9	33/34 (97%)	28 (85%)	5 (15%)	4	24
37	BC	61/181 (34%)	55 (90%)	6 (10%)	12	48
37	DC	61/181 (34%)	55 (90%)	6 (10%)	12	48
38	BD	213/218 (98%)	192 (90%)	21 (10%)	11	47
38	DD	213/218 (98%)	191 (90%)	22 (10%)	10	45
39	BE	165/166 (99%)	137 (83%)	28 (17%)	3	18
39	DE	165/166 (99%)	136 (82%)	29 (18%)	3	15
40	BF	165/166 (99%)	144 (87%)	21 (13%)	6	33
40	DF	165/166 (99%)	146 (88%)	19 (12%)	8	38
41	BG	155/156 (99%)	131 (84%)	24 (16%)	4	23

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	DG	155/156 (99%)	129 (83%)	26 (17%)	3	18
42	BH	132/148 (89%)	122 (92%)	10 (8%)	19	64
42	DH	132/148 (89%)	122 (92%)	10 (8%)	19	64
43	BI	122/124 (98%)	116 (95%)	6 (5%)	35	79
45	BK	106/111 (96%)	97 (92%)	9 (8%)	15	57
45	DK	106/111 (96%)	97 (92%)	9 (8%)	15	57
46	BN	117/119 (98%)	101 (86%)	16 (14%)	5	29
46	DN	117/119 (98%)	101 (86%)	16 (14%)	5	29
47	BO	100/100 (100%)	94 (94%)	6 (6%)	27	73
47	DO	100/100 (100%)	95 (95%)	5 (5%)	34	79
48	BP	112/116 (97%)	84 (75%)	28 (25%)	1	5
48	DP	112/116 (97%)	84 (75%)	28 (25%)	1	5
49	BQ	111/111 (100%)	97 (87%)	14 (13%)	7	33
49	DQ	111/111 (100%)	96 (86%)	15 (14%)	6	30
50	BR	100/101 (99%)	88 (88%)	12 (12%)	7	36
50	DR	100/101 (99%)	88 (88%)	12 (12%)	7	36
51	BS	77/88 (88%)	61 (79%)	16 (21%)	2	9
51	DS	77/88 (88%)	61 (79%)	16 (21%)	2	9
52	BT	120/127 (94%)	102 (85%)	18 (15%)	4	25
52	DT	120/127 (94%)	102 (85%)	18 (15%)	4	25
53	BU	92/94 (98%)	85 (92%)	7 (8%)	19	64
53	DU	92/94 (98%)	85 (92%)	7 (8%)	19	64
54	BV	82/82 (100%)	73 (89%)	9 (11%)	9	41
54	DV	82/82 (100%)	72 (88%)	10 (12%)	7	35
55	BW	91/92 (99%)	79 (87%)	12 (13%)	6	31
55	DW	91/92 (99%)	80 (88%)	11 (12%)	7	35
56	BX	74/78 (95%)	65 (88%)	9 (12%)	7	35
56	DX	74/78 (95%)	65 (88%)	9 (12%)	7	35
57	BY	84/91 (92%)	67 (80%)	17 (20%)	2	10
57	DY	84/91 (92%)	67 (80%)	17 (20%)	2	10
58	BZ	155/179 (87%)	128 (83%)	27 (17%)	3	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
58	DZ	155/179 (87%)	129 (83%)	26 (17%)	3	18
59	D4	27/27 (100%)	24 (89%)	3 (11%)	9	41
60	DI	122/124 (98%)	118 (97%)	4 (3%)	50	88
All	All	10446/11210 (93%)	9279 (89%)	1167 (11%)	9	40

All (1167) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	16	HIS
2	AB	17	PHE
2	AB	24	TRP
2	AB	36	ARG
2	AB	71	VAL
2	AB	80	ILE
2	AB	92	TYR
2	AB	103	THR
2	AB	130	ARG
2	AB	137	ARG
2	AB	140	HIS
2	AB	145	LEU
2	AB	170	GLU
2	AB	172	ILE
2	AB	178	ARG
2	AB	195	ASP
2	AB	196	LEU
2	AB	206	ASP
3	AC	12	LEU
3	AC	16	ARG
3	AC	34	LEU
3	AC	38	ARG
3	AC	52	LEU
3	AC	90	GLU
3	AC	94	LEU
3	AC	127	ARG
3	AC	131	ARG
3	AC	156	ARG
3	AC	165	THR
4	AD	3	ARG
4	AD	9	CYS
4	AD	11	LEU
4	AD	26	CYS

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Mol	Chain	Res	Type
4	AD	29	PRO
4	AD	31	CYS
4	AD	49	ARG
4	AD	53	ASP
4	AD	59	ARG
4	AD	68	TYR
4	AD	73	ARG
4	AD	97	LEU
4	AD	122	ARG
4	AD	129	ASN
4	AD	131	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	138	TYR
4	AD	150	GLU
4	AD	188	LEU
4	AD	200	GLU
5	AE	6	PHE
5	AE	13	ILE
5	AE	16	THR
5	AE	20	GLN
5	AE	28	PHE
5	AE	47	LYS
5	AE	51	VAL
5	AE	64	ARG
5	AE	68	GLU
5	AE	79	GLU
5	AE	91	LEU
5	AE	101	ILE
6	AF	69	GLU
6	AF	81	ILE
6	AF	82	ARG
6	AF	98	LEU
7	AG	30	ILE
7	AG	50	ILE
7	AG	58	PRO
7	AG	113	GLU
7	AG	114	ARG
7	AG	118	VAL
7	AG	146	GLU
7	AG	148	ASN
7	AG	156	TRP

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Mol	Chain	Res	Type
8	AH	1	MET
8	AH	3	THR
8	AH	4	ASP
8	AH	10	LEU
8	AH	25	ASP
8	AH	26	VAL
8	AH	63	LEU
8	AH	85	ARG
8	AH	91	ARG
8	AH	102	ARG
8	AH	104	ARG
8	AH	107	LEU
8	AH	119	LEU
8	AH	122	ARG
9	AI	4	TYR
9	AI	10	ARG
9	AI	47	LEU
9	AI	85	LEU
9	AI	95	LYS
9	AI	102	LEU
9	AI	104	ARG
9	AI	108	VAL
9	AI	114	TYR
9	AI	128	ARG
10	AJ	13	HIS
10	AJ	17	ASP
10	AJ	22	LYS
10	AJ	40	LEU
10	AJ	50	ILE
10	AJ	57	LYS
10	AJ	62	HIS
10	AJ	67	THR
10	AJ	70	ARG
10	AJ	96	ILE
11	AK	21	ILE
11	AK	32	ILE
11	AK	48	ILE
11	AK	51	LYS
11	AK	91	ARG
11	AK	125	PHE
12	AL	34	ARG
12	AL	37	CYS

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Mol	Chain	Res	Type
12	AL	48	PRO
12	AL	52	LEU
12	AL	113	ARG
12	AL	127	GLU
13	AM	47	ASP
13	AM	48	LEU
13	AM	56	LEU
13	AM	58	GLU
13	AM	64	TRP
13	AM	65	LYS
13	AM	66	LEU
13	AM	69	GLU
13	AM	82	MET
13	AM	93	ARG
13	AM	108	ARG
13	AM	113	PRO
13	AM	115	LYS
14	AN	22	THR
14	AN	37	PHE
14	AN	41	ARG
15	AO	3	ILE
15	AO	65	ARG
15	AO	82	ILE
16	AP	1	MET
16	AP	6	LEU
16	AP	27	LYS
16	AP	29	ASP
16	AP	32	TYR
16	AP	62	VAL
16	AP	67	THR
16	AP	82	GLN
17	AQ	52	LYS
17	AQ	74	LEU
18	AR	29	PHE
18	AR	31	LEU
18	AR	87	ARG
18	AR	88	LYS
19	AS	6	LYS
19	AS	7	LYS
19	AS	15	LEU
19	AS	23	ASN
19	AS	37	ARG

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Mol	Chain	Res	Type
19	AS	43	GLU
19	AS	44	MET
19	AS	79	THR
20	AT	13	LEU
20	AT	26	ASN
20	AT	27	LYS
20	AT	36	LEU
20	AT	64	ASP
20	AT	93	GLU
21	AU	15	ARG
24	AY	6	LEU
24	AY	28	GLU
24	AY	29	LEU
24	AY	32	ARG
24	AY	38	LEU
24	AY	41	ASP
24	AY	43	GLU
24	AY	62	PHE
24	AY	73	LEU
24	AY	78	GLU
24	AY	82	GLU
24	AY	83	GLU
24	AY	92	GLU
24	AY	109	PHE
24	AY	110	PRO
24	AY	113	GLU
24	AY	128	GLU
24	AY	146	ARG
24	AY	155	ASP
24	AY	165	ASP
24	AY	174	GLU
24	AY	231	VAL
24	AY	232	MET
24	AY	254	LEU
24	AY	259	THR
24	AY	279	LEU
24	AY	283	LEU
24	AY	291	ARG
24	AY	310	GLN
24	AY	314	TYR
24	AY	334	GLU
24	AY	340	ASP

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Mol	Chain	Res	Type
24	AY	344	LEU
24	AY	355	ARG
25	B0	20	ARG
25	B0	75	LEU
25	B0	80	HIS
26	B1	5	CYS
26	B1	41	ARG
26	B1	45	ASN
26	B1	46	LEU
26	B1	56	GLN
26	B1	59	THR
26	B1	89	GLU
26	B1	94	LEU
27	B2	2	LYS
27	B2	7	ARG
27	B2	24	LEU
27	B2	35	LEU
27	B2	37	PHE
27	B2	47	ASN
27	B2	52	ASP
27	B2	53	LEU
27	B2	56	GLN
27	B2	61	LEU
27	B2	62	THR
28	B3	8	LEU
28	B3	13	ILE
28	B3	50	VAL
28	B3	58	VAL
29	B4	51	TYR
29	B4	60	GLU
30	B5	3	LYS
30	B5	4	HIS
30	B5	25	LEU
30	B5	49	CYS
30	B5	51	TYR
30	B5	56	LYS
31	B6	10	LEU
31	B6	12	GLU
31	B6	18	ARG
31	B6	19	ARG
31	B6	28	ARG
31	B6	30	THR

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Mol	Chain	Res	Type
31	B6	31	PRO
31	B6	33	LYS
31	B6	36	LEU
31	B6	37	ARG
31	B6	41	PRO
32	B7	4	THR
32	B7	8	ASN
33	B8	23	VAL
33	B8	30	ARG
33	B8	32	LEU
33	B8	33	ASN
33	B8	34	TRP
33	B8	40	GLU
33	B8	43	GLN
33	B8	44	LYS
33	B8	47	LYS
33	B8	49	VAL
33	B8	61	LEU
33	B8	64	TYR
34	B9	2	LYS
34	B9	17	ILE
34	B9	26	ILE
34	B9	28	GLU
34	B9	29	ASN
37	BC	36	LYS
37	BC	44	HIS
37	BC	56	GLN
37	BC	59	ARG
37	BC	64	LEU
37	BC	77	ILE
38	BD	10	THR
38	BD	28	GLU
38	BD	33	LEU
38	BD	44	ASN
38	BD	69	ARG
38	BD	82	ILE
38	BD	89	SER
38	BD	94	LEU
38	BD	95	LEU
38	BD	103	ARG
38	BD	111	LEU
38	BD	150	LYS

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Mol	Chain	Res	Type
38	BD	166	GLN
38	BD	171	ASP
38	BD	176	ARG
38	BD	237	GLU
38	BD	242	ARG
38	BD	246	PRO
38	BD	257	LEU
38	BD	259	THR
38	BD	261	LYS
39	BE	12	THR
39	BE	19	ARG
39	BE	33	VAL
39	BE	40	GLU
39	BE	49	LEU
39	BE	55	ASN
39	BE	66	HIS
39	BE	67	PHE
39	BE	78	LEU
39	BE	79	ARG
39	BE	83	ASP
39	BE	86	PRO
39	BE	93	VAL
39	BE	101	ARG
39	BE	113	PHE
39	BE	119	ARG
39	BE	129	HIS
39	BE	132	HIS
39	BE	134	ILE
39	BE	144	ARG
39	BE	147	PRO
39	BE	154	LYS
39	BE	182	LEU
39	BE	184	VAL
39	BE	197	ILE
39	BE	199	ARG
39	BE	202	LYS
39	BE	203	LYS
40	BF	4	VAL
40	BF	19	GLU
40	BF	23	ASP
40	BF	24	LEU
40	BF	32	LEU

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Mol	Chain	Res	Type
40	BF	57	VAL
40	BF	74	ARG
40	BF	83	PHE
40	BF	88	VAL
40	BF	110	LEU
40	BF	112	MET
40	BF	117	ARG
40	BF	127	GLU
40	BF	160	ASN
40	BF	170	LEU
40	BF	175	THR
40	BF	179	GLU
40	BF	192	LEU
40	BF	197	ASP
40	BF	201	VAL
40	BF	205	ARG
41	BG	5	VAL
41	BG	21	ARG
41	BG	22	ARG
41	BG	33	ARG
41	BG	38	VAL
41	BG	51	ARG
41	BG	63	ILE
41	BG	82	LEU
41	BG	83	ARG
41	BG	87	PRO
41	BG	98	ARG
41	BG	101	ILE
41	BG	107	LEU
41	BG	113	ARG
41	BG	114	ILE
41	BG	115	ARG
41	BG	116	ASP
41	BG	132	ASN
41	BG	133	LEU
41	BG	136	ARG
41	BG	138	GLN
41	BG	147	ASP
41	BG	155	MET
41	BG	166	ASP
42	BH	13	LYS
42	BH	41	MET

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Mol	Chain	Res	Type
42	BH	72	ILE
42	BH	83	TYR
42	BH	86	GLU
42	BH	89	ILE
42	BH	104	GLU
42	BH	153	LYS
42	BH	164	TYR
42	BH	170	ARG
43	BI	38	LEU
43	BI	86	THR
43	BI	109	ILE
43	BI	110	ASP
43	BI	125	GLU
43	BI	134	PRO
45	BK	23	VAL
45	BK	62	ASP
45	BK	67	PHE
45	BK	86	LYS
45	BK	90	LYS
45	BK	95	LYS
45	BK	102	GLU
45	BK	120	LEU
45	BK	121	GLU
46	BN	1	MET
46	BN	19	GLU
46	BN	23	LEU
46	BN	25	ARG
46	BN	28	THR
46	BN	32	THR
46	BN	34	LEU
46	BN	35	ARG
46	BN	41	ASP
46	BN	48	MET
46	BN	56	ASN
46	BN	60	ILE
46	BN	78	TYR
46	BN	87	LEU
46	BN	119	ARG
46	BN	120	LEU
47	BO	53	LYS
47	BO	80	ASP
47	BO	88	ASN

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Mol	Chain	Res	Type
47	BO	98	VAL
47	BO	102	VAL
47	BO	105	GLU
48	BP	13	ASN
48	BP	18	ARG
48	BP	27	HIS
48	BP	32	THR
48	BP	39	LYS
48	BP	42	SER
48	BP	45	LEU
48	BP	49	ARG
48	BP	50	ARG
48	BP	51	PHE
48	BP	52	GLU
48	BP	57	THR
48	BP	61	ARG
48	BP	62	LEU
48	BP	67	MET
48	BP	70	GLN
48	BP	75	ILE
48	BP	81	GLN
48	BP	85	LEU
48	BP	92	GLU
48	BP	105	LEU
48	BP	106	LEU
48	BP	111	ARG
48	BP	130	PHE
48	BP	135	LEU
48	BP	147	LEU
48	BP	148	LEU
48	BP	149	GLU
49	BQ	21	THR
49	BQ	26	TYR
49	BQ	27	VAL
49	BQ	45	GLN
49	BQ	56	ARG
49	BQ	58	PHE
49	BQ	59	ARG
49	BQ	75	THR
49	BQ	79	LEU
49	BQ	81	VAL
49	BQ	89	ASN

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Mol	Chain	Res	Type
49	BQ	110	THR
49	BQ	132	VAL
49	BQ	137	TYR
50	BR	2	ARG
50	BR	5	LYS
50	BR	12	ARG
50	BR	17	ARG
50	BR	33	ARG
50	BR	44	LEU
50	BR	59	ASP
50	BR	71	GLN
50	BR	79	LEU
50	BR	90	ARG
50	BR	104	ARG
50	BR	118	GLU
51	BS	11	LYS
51	BS	12	PHE
51	BS	18	ILE
51	BS	26	LEU
51	BS	36	TYR
51	BS	41	ASP
51	BS	43	GLU
51	BS	48	LEU
51	BS	56	LEU
51	BS	73	LEU
51	BS	83	LYS
51	BS	89	ARG
51	BS	92	TYR
51	BS	97	ARG
51	BS	101	LEU
51	BS	106	ARG
52	BT	13	ARG
52	BT	14	TYR
52	BT	16	ARG
52	BT	24	PRO
52	BT	44	ASP
52	BT	58	ASN
52	BT	59	THR
52	BT	63	VAL
52	BT	73	GLU
52	BT	87	ASP
52	BT	96	ARG

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Mol	Chain	Res	Type
52	BT	99	LEU
52	BT	108	ARG
52	BT	113	LYS
52	BT	115	ARG
52	BT	118	ARG
52	BT	121	ILE
52	BT	128	GLU
53	BU	20	LEU
53	BU	27	LEU
53	BU	64	ARG
53	BU	74	LEU
53	BU	89	GLU
53	BU	102	GLU
53	BU	108	GLU
54	BV	18	LEU
54	BV	19	LYS
54	BV	21	ARG
54	BV	23	GLU
54	BV	61	VAL
54	BV	89	GLN
54	BV	91	TYR
54	BV	95	LEU
54	BV	99	ILE
55	BW	11	ARG
55	BW	19	LEU
55	BW	50	VAL
55	BW	51	LEU
55	BW	59	VAL
55	BW	65	LEU
55	BW	70	TYR
55	BW	75	TYR
55	BW	76	VAL
55	BW	86	LEU
55	BW	100	THR
55	BW	107	LEU
56	BX	27	THR
56	BX	28	PHE
56	BX	36	LYS
56	BX	48	LYS
56	BX	57	LEU
56	BX	60	ARG
56	BX	68	ARG

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Mol	Chain	Res	Type
56	BX	76	ARG
56	BX	83	VAL
57	BY	2	ARG
57	BY	4	LYS
57	BY	7	VAL
57	BY	8	LYS
57	BY	15	VAL
57	BY	28	LYS
57	BY	29	GLU
57	BY	38	ILE
57	BY	47	LYS
57	BY	49	VAL
57	BY	60	PHE
57	BY	62	GLU
57	BY	66	PRO
57	BY	77	PRO
57	BY	83	THR
57	BY	89	PHE
57	BY	97	ARG
58	BZ	13	GLU
58	BZ	18	LEU
58	BZ	23	LYS
58	BZ	24	LEU
58	BZ	28	MET
58	BZ	37	VAL
58	BZ	40	ASP
58	BZ	49	ARG
58	BZ	53	ILE
58	BZ	55	HIS
58	BZ	70	LEU
58	BZ	72	ARG
58	BZ	76	LEU
58	BZ	79	ARG
58	BZ	80	ARG
58	BZ	81	ARG
58	BZ	88	PHE
58	BZ	89	PHE
58	BZ	97	GLU
58	BZ	112	ARG
58	BZ	119	GLU
58	BZ	126	VAL
58	BZ	132	ASN

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Mol	Chain	Res	Type
58	BZ	145	GLU
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	168	GLU
2	CB	16	HIS
2	CB	17	PHE
2	CB	24	TRP
2	CB	36	ARG
2	CB	71	VAL
2	CB	80	ILE
2	CB	92	TYR
2	CB	103	THR
2	CB	130	ARG
2	CB	137	ARG
2	CB	140	HIS
2	CB	145	LEU
2	CB	170	GLU
2	CB	172	ILE
2	CB	178	ARG
2	CB	195	ASP
2	CB	196	LEU
2	CB	206	ASP
3	CC	12	LEU
3	CC	16	ARG
3	CC	34	LEU
3	CC	38	ARG
3	CC	90	GLU
3	CC	94	LEU
3	CC	127	ARG
3	CC	131	ARG
3	CC	156	ARG
3	CC	165	THR
4	CD	3	ARG
4	CD	9	CYS
4	CD	11	LEU
4	CD	12	CYS
4	CD	26	CYS
4	CD	29	PRO
4	CD	31	CYS
4	CD	49	ARG
4	CD	53	ASP
4	CD	59	ARG

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Mol	Chain	Res	Type
4	CD	68	TYR
4	CD	73	ARG
4	CD	97	LEU
4	CD	122	ARG
4	CD	131	ARG
4	CD	132	ARG
4	CD	135	LEU
4	CD	138	TYR
4	CD	150	GLU
4	CD	188	LEU
4	CD	200	GLU
5	CE	6	PHE
5	CE	13	ILE
5	CE	16	THR
5	CE	20	GLN
5	CE	28	PHE
5	CE	41	VAL
5	CE	47	LYS
5	CE	51	VAL
5	CE	64	ARG
5	CE	68	GLU
5	CE	73	ASN
5	CE	79	GLU
5	CE	91	LEU
5	CE	101	ILE
6	CF	69	GLU
6	CF	81	ILE
6	CF	82	ARG
6	CF	98	LEU
7	CG	30	ILE
7	CG	50	ILE
7	CG	113	GLU
7	CG	114	ARG
7	CG	118	VAL
7	CG	146	GLU
7	CG	148	ASN
7	CG	156	TRP
8	CH	1	MET
8	CH	3	THR
8	CH	4	ASP
8	CH	10	LEU
8	CH	25	ASP

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Mol	Chain	Res	Type
8	CH	26	VAL
8	CH	63	LEU
8	CH	85	ARG
8	CH	91	ARG
8	CH	102	ARG
8	CH	104	ARG
8	CH	107	LEU
8	CH	119	LEU
8	CH	122	ARG
9	CI	4	TYR
9	CI	10	ARG
9	CI	47	LEU
9	CI	85	LEU
9	CI	95	LYS
9	CI	102	LEU
9	CI	104	ARG
9	CI	108	VAL
9	CI	114	TYR
9	CI	128	ARG
10	CJ	13	HIS
10	CJ	17	ASP
10	CJ	22	LYS
10	CJ	40	LEU
10	CJ	50	ILE
10	CJ	57	LYS
10	CJ	62	HIS
10	CJ	67	THR
10	CJ	70	ARG
10	CJ	96	ILE
11	CK	21	ILE
11	CK	32	ILE
11	CK	48	ILE
11	CK	51	LYS
11	CK	91	ARG
11	CK	125	PHE
12	CL	7	ILE
12	CL	34	ARG
12	CL	37	CYS
12	CL	48	PRO
12	CL	52	LEU
12	CL	53	ARG
12	CL	113	ARG

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Mol	Chain	Res	Type
12	CL	127	GLU
13	CM	47	ASP
13	CM	48	LEU
13	CM	56	LEU
13	CM	58	GLU
13	CM	64	TRP
13	CM	65	LYS
13	CM	66	LEU
13	CM	69	GLU
13	CM	82	MET
13	CM	93	ARG
13	CM	108	ARG
13	CM	113	PRO
13	CM	115	LYS
14	CN	22	THR
14	CN	37	PHE
14	CN	41	ARG
15	CO	3	ILE
15	CO	65	ARG
15	CO	82	ILE
16	CP	1	MET
16	CP	6	LEU
16	CP	27	LYS
16	CP	29	ASP
16	CP	32	TYR
16	CP	62	VAL
16	CP	67	THR
16	CP	82	GLN
17	CQ	52	LYS
17	CQ	74	LEU
18	CR	29	PHE
18	CR	31	LEU
18	CR	87	ARG
18	CR	88	LYS
19	CS	6	LYS
19	CS	7	LYS
19	CS	15	LEU
19	CS	23	ASN
19	CS	37	ARG
19	CS	43	GLU
19	CS	44	MET
19	CS	79	THR

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Mol	Chain	Res	Type
20	CT	13	LEU
20	CT	26	ASN
20	CT	27	LYS
20	CT	36	LEU
20	CT	64	ASP
20	CT	93	GLU
24	CY	10	LEU
24	CY	18	ASP
24	CY	28	GLU
24	CY	31	ARG
24	CY	35	ASP
24	CY	55	LEU
24	CY	60	ASP
24	CY	82	GLU
24	CY	110	PRO
24	CY	113	GLU
24	CY	130	CYS
24	CY	132	TRP
24	CY	138	ARG
24	CY	146	ARG
24	CY	155	ASP
24	CY	165	ASP
24	CY	174	GLU
24	CY	189	LEU
24	CY	208	VAL
24	CY	222	LEU
24	CY	225	GLU
24	CY	227	LEU
24	CY	232	MET
24	CY	274	LEU
24	CY	291	ARG
24	CY	304	PRO
24	CY	310	GLN
24	CY	319	ASN
24	CY	324	HIS
24	CY	326	THR
24	CY	334	GLU
24	CY	338	ASP
24	CY	340	ASP
24	CY	344	LEU
25	D0	20	ARG
25	D0	75	LEU

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Mol	Chain	Res	Type
25	D0	80	HIS
26	D1	3	LYS
26	D1	21	ARG
26	D1	39	LYS
26	D1	45	ASN
26	D1	46	LEU
26	D1	53	VAL
26	D1	58	ILE
26	D1	59	THR
26	D1	80	LEU
26	D1	83	GLU
26	D1	88	LYS
26	D1	94	LEU
27	D2	3	LEU
27	D2	36	ARG
27	D2	53	LEU
27	D2	60	LEU
27	D2	61	LEU
27	D2	62	THR
27	D2	64	LEU
28	D3	8	LEU
28	D3	50	VAL
28	D3	58	VAL
59	D4	46	ASN
59	D4	51	TYR
59	D4	60	GLU
30	D5	3	LYS
30	D5	4	HIS
30	D5	25	LEU
30	D5	49	CYS
30	D5	51	TYR
30	D5	56	LYS
30	D5	60	VAL
31	D6	10	LEU
31	D6	12	GLU
31	D6	18	ARG
31	D6	19	ARG
31	D6	28	ARG
31	D6	30	THR
31	D6	31	PRO
31	D6	33	LYS
31	D6	36	LEU

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Mol	Chain	Res	Type
31	D6	37	ARG
31	D6	41	PRO
32	D7	4	THR
32	D7	8	ASN
33	D8	23	VAL
33	D8	30	ARG
33	D8	32	LEU
33	D8	33	ASN
33	D8	34	TRP
33	D8	40	GLU
33	D8	43	GLN
33	D8	44	LYS
33	D8	47	LYS
33	D8	49	VAL
33	D8	61	LEU
33	D8	64	TYR
34	D9	2	LYS
34	D9	17	ILE
34	D9	26	ILE
34	D9	28	GLU
34	D9	29	ASN
37	DC	36	LYS
37	DC	44	HIS
37	DC	56	GLN
37	DC	59	ARG
37	DC	64	LEU
37	DC	77	ILE
38	DD	10	THR
38	DD	28	GLU
38	DD	33	LEU
38	DD	44	ASN
38	DD	69	ARG
38	DD	82	ILE
38	DD	89	SER
38	DD	94	LEU
38	DD	95	LEU
38	DD	103	ARG
38	DD	111	LEU
38	DD	150	LYS
38	DD	166	GLN
38	DD	171	ASP
38	DD	176	ARG

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Mol	Chain	Res	Type
38	DD	237	GLU
38	DD	242	ARG
38	DD	245	PRO
38	DD	246	PRO
38	DD	257	LEU
38	DD	259	THR
38	DD	261	LYS
39	DE	12	THR
39	DE	19	ARG
39	DE	33	VAL
39	DE	40	GLU
39	DE	49	LEU
39	DE	55	ASN
39	DE	66	HIS
39	DE	67	PHE
39	DE	78	LEU
39	DE	79	ARG
39	DE	83	ASP
39	DE	86	PRO
39	DE	93	VAL
39	DE	101	ARG
39	DE	113	PHE
39	DE	119	ARG
39	DE	129	HIS
39	DE	132	HIS
39	DE	134	ILE
39	DE	144	ARG
39	DE	147	PRO
39	DE	154	LYS
39	DE	182	LEU
39	DE	184	VAL
39	DE	189	PRO
39	DE	197	ILE
39	DE	199	ARG
39	DE	202	LYS
39	DE	203	LYS
40	DF	4	VAL
40	DF	19	GLU
40	DF	23	ASP
40	DF	24	LEU
40	DF	32	LEU
40	DF	57	VAL

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Mol	Chain	Res	Type
40	DF	74	ARG
40	DF	83	PHE
40	DF	88	VAL
40	DF	110	LEU
40	DF	112	MET
40	DF	160	ASN
40	DF	170	LEU
40	DF	175	THR
40	DF	179	GLU
40	DF	192	LEU
40	DF	197	ASP
40	DF	201	VAL
40	DF	205	ARG
41	DG	16	ARG
41	DG	21	ARG
41	DG	22	ARG
41	DG	26	GLN
41	DG	31	VAL
41	DG	32	PRO
41	DG	33	ARG
41	DG	39	ILE
41	DG	40	ASN
41	DG	45	GLU
41	DG	51	ARG
41	DG	60	LEU
41	DG	67	LYS
41	DG	79	ASN
41	DG	80	PHE
41	DG	87	PRO
41	DG	101	ILE
41	DG	108	ASN
41	DG	115	ARG
41	DG	126	ASP
41	DG	128	ARG
41	DG	130	ASN
41	DG	133	LEU
41	DG	156	ASP
41	DG	157	ILE
41	DG	166	ASP
42	DH	13	LYS
42	DH	41	MET
42	DH	72	ILE

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Mol	Chain	Res	Type
42	DH	83	TYR
42	DH	86	GLU
42	DH	89	ILE
42	DH	104	GLU
42	DH	153	LYS
42	DH	164	TYR
42	DH	170	ARG
60	DI	38	LEU
60	DI	47	LEU
60	DI	75	LEU
60	DI	109	ILE
45	DK	23	VAL
45	DK	62	ASP
45	DK	67	PHE
45	DK	86	LYS
45	DK	90	LYS
45	DK	95	LYS
45	DK	102	GLU
45	DK	120	LEU
45	DK	121	GLU
46	DN	1	MET
46	DN	19	GLU
46	DN	23	LEU
46	DN	25	ARG
46	DN	28	THR
46	DN	32	THR
46	DN	34	LEU
46	DN	35	ARG
46	DN	37	LYS
46	DN	41	ASP
46	DN	48	MET
46	DN	56	ASN
46	DN	60	ILE
46	DN	87	LEU
46	DN	119	ARG
46	DN	120	LEU
47	DO	53	LYS
47	DO	80	ASP
47	DO	88	ASN
47	DO	98	VAL
47	DO	105	GLU
48	DP	13	ASN

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Mol	Chain	Res	Type
48	DP	18	ARG
48	DP	27	HIS
48	DP	32	THR
48	DP	39	LYS
48	DP	42	SER
48	DP	45	LEU
48	DP	49	ARG
48	DP	50	ARG
48	DP	51	PHE
48	DP	52	GLU
48	DP	57	THR
48	DP	61	ARG
48	DP	62	LEU
48	DP	67	MET
48	DP	70	GLN
48	DP	75	ILE
48	DP	81	GLN
48	DP	85	LEU
48	DP	92	GLU
48	DP	105	LEU
48	DP	106	LEU
48	DP	111	ARG
48	DP	130	PHE
48	DP	135	LEU
48	DP	147	LEU
48	DP	148	LEU
48	DP	149	GLU
49	DQ	21	THR
49	DQ	26	TYR
49	DQ	27	VAL
49	DQ	45	GLN
49	DQ	52	VAL
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	59	ARG
49	DQ	75	THR
49	DQ	79	LEU
49	DQ	81	VAL
49	DQ	89	ASN
49	DQ	110	THR
49	DQ	132	VAL
49	DQ	137	TYR

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Mol	Chain	Res	Type
50	DR	2	ARG
50	DR	5	LYS
50	DR	12	ARG
50	DR	17	ARG
50	DR	33	ARG
50	DR	44	LEU
50	DR	59	ASP
50	DR	71	GLN
50	DR	79	LEU
50	DR	90	ARG
50	DR	104	ARG
50	DR	118	GLU
51	DS	11	LYS
51	DS	12	PHE
51	DS	18	ILE
51	DS	26	LEU
51	DS	36	TYR
51	DS	41	ASP
51	DS	43	GLU
51	DS	48	LEU
51	DS	56	LEU
51	DS	73	LEU
51	DS	83	LYS
51	DS	89	ARG
51	DS	92	TYR
51	DS	97	ARG
51	DS	101	LEU
51	DS	106	ARG
52	DT	13	ARG
52	DT	14	TYR
52	DT	16	ARG
52	DT	24	PRO
52	DT	44	ASP
52	DT	58	ASN
52	DT	59	THR
52	DT	63	VAL
52	DT	73	GLU
52	DT	87	ASP
52	DT	96	ARG
52	DT	99	LEU
52	DT	108	ARG
52	DT	113	LYS

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Mol	Chain	Res	Type
52	DT	115	ARG
52	DT	118	ARG
52	DT	121	ILE
52	DT	128	GLU
53	DU	20	LEU
53	DU	27	LEU
53	DU	64	ARG
53	DU	74	LEU
53	DU	89	GLU
53	DU	102	GLU
53	DU	108	GLU
54	DV	12	TYR
54	DV	18	LEU
54	DV	19	LYS
54	DV	21	ARG
54	DV	23	GLU
54	DV	61	VAL
54	DV	89	GLN
54	DV	91	TYR
54	DV	95	LEU
54	DV	99	ILE
55	DW	11	ARG
55	DW	19	LEU
55	DW	50	VAL
55	DW	51	LEU
55	DW	59	VAL
55	DW	65	LEU
55	DW	70	TYR
55	DW	75	TYR
55	DW	76	VAL
55	DW	86	LEU
55	DW	100	THR
56	DX	27	THR
56	DX	28	PHE
56	DX	36	LYS
56	DX	48	LYS
56	DX	57	LEU
56	DX	60	ARG
56	DX	68	ARG
56	DX	76	ARG
56	DX	83	VAL
57	DY	2	ARG

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Mol	Chain	Res	Type
57	DY	4	LYS
57	DY	7	VAL
57	DY	8	LYS
57	DY	15	VAL
57	DY	28	LYS
57	DY	29	GLU
57	DY	38	ILE
57	DY	47	LYS
57	DY	49	VAL
57	DY	60	PHE
57	DY	62	GLU
57	DY	66	PRO
57	DY	77	PRO
57	DY	83	THR
57	DY	89	PHE
57	DY	97	ARG
58	DZ	3	TYR
58	DZ	4	ARG
58	DZ	5	LEU
58	DZ	8	TYR
58	DZ	13	GLU
58	DZ	19	ARG
58	DZ	23	LYS
58	DZ	30	ASN
58	DZ	35	ARG
58	DZ	41	LEU
58	DZ	53	ILE
58	DZ	61	LEU
58	DZ	72	ARG
58	DZ	79	ARG
58	DZ	80	ARG
58	DZ	91	LEU
58	DZ	98	MET
58	DZ	99	TYR
58	DZ	117	LEU
58	DZ	118	GLN
58	DZ	119	GLU
58	DZ	121	HIS
58	DZ	148	ASP
58	DZ	149	SER
58	DZ	150	LEU
58	DZ	157	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (327) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	78	GLN
2	AB	94	ASN
2	AB	110	GLN
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	31	HIS
3	AC	37	GLN
3	AC	104	GLN
3	AC	136	GLN
3	AC	162	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	62	GLN
4	AD	74	GLN
4	AD	77	ASN
4	AD	125	HIS
5	AE	20	GLN
5	AE	73	ASN
5	AE	78	HIS
6	AF	7	ASN
6	AF	18	GLN
6	AF	32	ASN
6	AF	73	ASN
6	AF	100	ASN
7	AG	84	ASN
7	AG	96	GLN
7	AG	106	GLN
7	AG	109	ASN
7	AG	110	GLN
7	AG	148	ASN
8	AH	15	ASN
8	AH	82	HIS
9	AI	23	ASN
9	AI	38	GLN
9	AI	124	GLN
10	AJ	56	HIS
10	AJ	76	ASN
10	AJ	78	ASN
11	AK	13	GLN

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Mol	Chain	Res	Type
11	AK	62	GLN
11	AK	117	ASN
12	AL	49	ASN
12	AL	75	HIS
13	AM	62	ASN
13	AM	77	ASN
13	AM	92	HIS
13	AM	101	GLN
14	AN	49	HIS
15	AO	37	ASN
15	AO	46	HIS
15	AO	71	GLN
16	AP	14	ASN
16	AP	82	GLN
17	AQ	16	GLN
17	AQ	93	GLN
17	AQ	94	ASN
18	AR	36	ASN
18	AR	63	GLN
19	AS	14	HIS
19	AS	23	ASN
19	AS	57	HIS
19	AS	69	HIS
20	AT	16	HIS
20	AT	26	ASN
20	AT	73	HIS
24	AY	40	ASN
24	AY	115	ASN
24	AY	147	GLN
24	AY	175	ASN
24	AY	187	HIS
24	AY	243	ASN
24	AY	263	GLN
24	AY	319	ASN
25	B0	12	ASN
25	B0	29	GLN
25	B0	35	ASN
25	B0	70	GLN
26	B1	45	ASN
26	B1	56	GLN
27	B2	38	GLN
27	B2	65	ASN

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Mol	Chain	Res	Type
28	B3	19	GLN
28	B3	46	ASN
28	B3	52	HIS
29	B4	46	ASN
30	B5	4	HIS
30	B5	23	HIS
30	B5	43	HIS
31	B6	20	ASN
31	B6	26	ASN
31	B6	32	ASN
32	B7	8	ASN
33	B8	33	ASN
34	B9	29	ASN
34	B9	34	GLN
38	BD	58	HIS
38	BD	116	GLN
38	BD	126	GLN
38	BD	166	GLN
38	BD	186	HIS
38	BD	227	ASN
38	BD	253	GLN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	66	HIS
39	BE	129	HIS
39	BE	143	ASN
39	BE	169	ASN
39	BE	192	ASN
40	BF	69	HIS
40	BF	75	HIS
40	BF	160	ASN
40	BF	169	ASN
40	BF	204	ASN
41	BG	40	ASN
41	BG	41	GLN
41	BG	66	GLN
41	BG	132	ASN
42	BH	111	HIS
42	BH	147	ASN
43	BI	17	GLN
45	BK	11	GLN

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Mol	Chain	Res	Type
45	BK	29	GLN
45	BK	33	ASN
45	BK	89	HIS
45	BK	116	ASN
46	BN	56	ASN
47	BO	5	GLN
47	BO	13	ASN
47	BO	82	ASN
48	BP	13	ASN
48	BP	38	GLN
48	BP	81	GLN
49	BQ	12	GLN
49	BQ	45	GLN
49	BQ	123	HIS
49	BQ	141	GLN
50	BR	3	HIS
50	BR	13	HIS
50	BR	16	HIS
50	BR	23	ASN
50	BR	71	GLN
51	BS	16	ASN
51	BS	34	HIS
51	BS	68	GLN
52	BT	58	ASN
52	BT	90	GLN
52	BT	123	GLN
53	BU	49	HIS
53	BU	71	GLN
53	BU	94	ASN
53	BU	104	GLN
54	BV	11	GLN
54	BV	80	GLN
55	BW	34	ASN
55	BW	40	ASN
55	BW	57	ASN
55	BW	61	ASN
55	BW	102	HIS
56	BX	41	ASN
56	BX	55	ASN
56	BX	82	GLN
58	BZ	54	HIS
58	BZ	75	ASN

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Mol	Chain	Res	Type
58	BZ	118	GLN
58	BZ	132	ASN
2	CB	37	ASN
2	CB	78	GLN
2	CB	94	ASN
2	CB	110	GLN
2	CB	146	GLN
2	CB	204	ASN
3	CC	28	GLN
3	CC	31	HIS
3	CC	37	GLN
3	CC	104	GLN
3	CC	162	GLN
3	CC	170	GLN
3	CC	181	ASN
4	CD	62	GLN
4	CD	74	GLN
4	CD	77	ASN
5	CE	20	GLN
5	CE	73	ASN
6	CF	7	ASN
6	CF	18	GLN
6	CF	32	ASN
6	CF	73	ASN
6	CF	100	ASN
7	CG	84	ASN
7	CG	96	GLN
7	CG	97	GLN
7	CG	106	GLN
7	CG	109	ASN
7	CG	110	GLN
7	CG	148	ASN
8	CH	15	ASN
8	CH	82	HIS
9	CI	23	ASN
9	CI	38	GLN
9	CI	124	GLN
10	CJ	56	HIS
10	CJ	76	ASN
10	CJ	78	ASN
11	CK	13	GLN
11	CK	62	GLN

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Mol	Chain	Res	Type
11	CK	117	ASN
12	CL	49	ASN
12	CL	75	HIS
13	CM	62	ASN
13	CM	77	ASN
13	CM	92	HIS
13	CM	101	GLN
14	CN	49	HIS
15	CO	37	ASN
15	CO	46	HIS
15	CO	71	GLN
16	CP	14	ASN
16	CP	82	GLN
17	CQ	16	GLN
17	CQ	93	GLN
18	CR	36	ASN
18	CR	63	GLN
19	CS	23	ASN
19	CS	57	HIS
19	CS	69	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	73	HIS
24	CY	40	ASN
24	CY	50	GLN
24	CY	104	GLN
24	CY	115	ASN
24	CY	147	GLN
24	CY	187	HIS
24	CY	243	ASN
24	CY	319	ASN
24	CY	331	HIS
25	D0	12	ASN
25	D0	29	GLN
25	D0	35	ASN
25	D0	70	GLN
26	D1	45	ASN
27	D2	38	GLN
27	D2	47	ASN
28	D3	19	GLN
28	D3	46	ASN
28	D3	52	HIS

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Mol	Chain	Res	Type
59	D4	46	ASN
30	D5	4	HIS
30	D5	23	HIS
30	D5	43	HIS
31	D6	20	ASN
31	D6	26	ASN
31	D6	32	ASN
32	D7	8	ASN
32	D7	36	GLN
33	D8	33	ASN
34	D9	29	ASN
34	D9	34	GLN
38	DD	58	HIS
38	DD	116	GLN
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS
38	DD	227	ASN
38	DD	253	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	66	HIS
39	DE	129	HIS
39	DE	143	ASN
39	DE	169	ASN
39	DE	192	ASN
40	DF	69	HIS
40	DF	75	HIS
40	DF	160	ASN
40	DF	169	ASN
40	DF	204	ASN
41	DG	40	ASN
41	DG	79	ASN
42	DH	111	HIS
42	DH	147	ASN
45	DK	11	GLN
45	DK	29	GLN
45	DK	33	ASN
45	DK	89	HIS
45	DK	116	ASN
46	DN	56	ASN

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Mol	Chain	Res	Type
46	DN	128	HIS
47	DO	5	GLN
47	DO	13	ASN
47	DO	82	ASN
48	DP	13	ASN
48	DP	38	GLN
48	DP	81	GLN
49	DQ	12	GLN
49	DQ	45	GLN
49	DQ	123	HIS
50	DR	3	HIS
50	DR	16	HIS
50	DR	23	ASN
50	DR	71	GLN
51	DS	16	ASN
51	DS	34	HIS
51	DS	68	GLN
52	DT	58	ASN
52	DT	90	GLN
52	DT	123	GLN
53	DU	49	HIS
53	DU	71	GLN
53	DU	94	ASN
53	DU	104	GLN
54	DV	11	GLN
55	DW	34	ASN
55	DW	40	ASN
55	DW	57	ASN
56	DX	41	ASN
56	DX	55	ASN
56	DX	82	GLN
58	DZ	30	ASN
58	DZ	73	GLN
58	DZ	118	GLN

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	222 (14%)	34 (2%)
1	CA	1503/1522 (98%)	217 (14%)	34 (2%)
22	AV	75/76 (98%)	17 (22%)	1 (1%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
22	AW	75/76 (98%)	15 (20%)	3 (4%)
22	CV	75/76 (98%)	18 (24%)	0
22	CW	75/76 (98%)	16 (21%)	4 (5%)
23	AX	7/8 (87%)	1 (14%)	1 (14%)
23	CX	7/8 (87%)	1 (14%)	0
35	BA	2885/2901 (99%)	515 (17%)	58 (2%)
35	DA	2885/2901 (99%)	516 (17%)	57 (1%)
36	BB	118/122 (96%)	15 (12%)	3 (2%)
36	DB	118/122 (96%)	14 (11%)	3 (2%)
All	All	9326/9410 (99%)	1567 (16%)	198 (2%)

All (1567) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
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	59	A
1	AA	61	G
1	AA	79	G
1	AA	80	G
1	AA	81	U
1	AA	84	U
1	AA	88	A
1	AA	89	C
1	AA	92	C
1	AA	111	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	122	G
1	AA	129(A)	G
1	AA	131	C
1	AA	142	G
1	AA	144	G
1	AA	172	A
1	AA	182	U
1	AA	195	A

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Mol	Chain	Res	Type
1	AA	197	A
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	220	G
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	275	G
1	AA	289	G
1	AA	306	G
1	AA	321	A
1	AA	329	A
1	AA	332	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	358	U
1	AA	367	U
1	AA	368	U
1	AA	370	C
1	AA	373	A
1	AA	389	A
1	AA	390	C
1	AA	392	G
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	414	A
1	AA	421	U
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	452	A
1	AA	453	A
1	AA	482	A
1	AA	484	G

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Mol	Chain	Res	Type
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	499	A
1	AA	500	G
1	AA	508	C
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	630	G
1	AA	631	G
1	AA	632	A
1	AA	653	A
1	AA	665	A
1	AA	687	A
1	AA	688	G
1	AA	723	U
1	AA	749	C
1	AA	755	G
1	AA	793	U
1	AA	817	C
1	AA	818	G
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	859	A
1	AA	885	G

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Mol	Chain	Res	Type
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	966	G
1	AA	967	C
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1001	A
1	AA	1004	A
1	AA	1026	G
1	AA	1030(B)	C
1	AA	1050	G
1	AA	1054	C
1	AA	1055	A
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1117	G
1	AA	1118	C
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G

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Mol	Chain	Res	Type
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1141	C
1	AA	1146	A
1	AA	1153	C
1	AA	1159	U
1	AA	1182	G
1	AA	1183	A
1	AA	1184	G
1	AA	1187	G
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1224	G
1	AA	1225	A
1	AA	1227	A
1	AA	1238	A
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1280	A
1	AA	1281	U
1	AA	1286	A
1	AA	1287	A
1	AA	1299	A
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1319	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C

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Mol	Chain	Res	Type
1	AA	1338	G
1	AA	1347	G
1	AA	1364	U
1	AA	1370	G
1	AA	1398	A
1	AA	1419	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1499	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	7	A
22	AV	17	C
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	22	G
22	AV	41	C
22	AV	42	C
22	AV	47	U
22	AV	48	C
22	AV	56	C
22	AV	63	G
22	AV	69	G
22	AV	72	C
22	AV	73	A
22	AV	75	C

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Mol	Chain	Res	Type
22	AV	76	A
22	AW	9	A
22	AW	10	G
22	AW	16	U
22	AW	17	C
22	AW	18	G
22	AW	19	G
22	AW	21	A
22	AW	39	U
22	AW	40	C
22	AW	41	C
22	AW	42	C
22	AW	43	C
22	AW	52	G
22	AW	70	G
22	AW	71	G
23	AX	20	U
35	BA	10	G
35	BA	28	A
35	BA	34	C
35	BA	45	C
35	BA	51	G
35	BA	55	G
35	BA	59	U
35	BA	61	G
35	BA	69	C
35	BA	71	A
35	BA	72	U
35	BA	75	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	94	C
35	BA	99	U
35	BA	100	G
35	BA	102	G
35	BA	118	A
35	BA	119	A
35	BA	120	U
35	BA	139(A)	G
35	BA	140	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	141	A
35	BA	142	A
35	BA	154	G
35	BA	154(A)	C
35	BA	157	U
35	BA	158	U
35	BA	175	G
35	BA	182	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	228	A
35	BA	229	A
35	BA	230	U
35	BA	248	G
35	BA	252	G
35	BA	261	G
35	BA	266	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(M)	G
35	BA	271(N)	U
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(T)	C
35	BA	271(Y)	U
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	275	G
35	BA	279	C
35	BA	284	U
35	BA	286	C
35	BA	287	C
35	BA	311	A
35	BA	316	C

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Mol	Chain	Res	Type
35	BA	329	G
35	BA	330	A
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	362	U
35	BA	363	G
35	BA	363(B)	G
35	BA	363(E)	U
35	BA	371	A
35	BA	372	G
35	BA	386	G
35	BA	396	G
35	BA	405	U
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	454	A
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	475	U
35	BA	481	G
35	BA	494	G
35	BA	495	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	528	A
35	BA	529	A
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	545	C
35	BA	548	A
35	BA	551	G
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	586	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	588	U
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	615	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	653	A
35	BA	654	A
35	BA	654(B)	C
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(M)	C
35	BA	656	G
35	BA	686	G
35	BA	708	C
35	BA	722	A
35	BA	730	C
35	BA	740	U
35	BA	753	C
35	BA	764	A
35	BA	765	G
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	790	C
35	BA	792	G
35	BA	805	G
35	BA	812	C
35	BA	819	A
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	848	G
35	BA	856	C
35	BA	857	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	859	G
35	BA	866	A
35	BA	878	A
35	BA	879	G
35	BA	886	C
35	BA	890	A
35	BA	896	A
35	BA	897	C
35	BA	910	A
35	BA	914	C
35	BA	915	C
35	BA	917	A
35	BA	926	A
35	BA	932	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	958	U
35	BA	959	A
35	BA	961	C
35	BA	965	C
35	BA	974	G
35	BA	975	C
35	BA	975(A)	G
35	BA	983	A
35	BA	991	C
35	BA	996	A
35	BA	999	U
35	BA	1000	A
35	BA	1012	U
35	BA	1013	C
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	U
35	BA	1039	G
35	BA	1043	C
35	BA	1046	A
35	BA	1047	G
35	BA	1048	A
35	BA	1067	A
35	BA	1070	A

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Mol	Chain	Res	Type
35	BA	1088	A
35	BA	1108	U
35	BA	1111	A
35	BA	1112	G
35	BA	1116	C
35	BA	1126	A
35	BA	1127	A
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1155	A
35	BA	1170	G
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1195	G
35	BA	1204	A
35	BA	1205	U
35	BA	1211	U
35	BA	1220	A
35	BA	1221	C
35	BA	1241	A
35	BA	1250	G
35	BA	1253	A
35	BA	1256	G
35	BA	1271	G
35	BA	1272	A
35	BA	1281	G
35	BA	1286	A
35	BA	1300	U
35	BA	1301	A
35	BA	1314	C
35	BA	1319	G
35	BA	1321	A
35	BA	1329	U
35	BA	1332	G
35	BA	1345	C
35	BA	1349	A
35	BA	1352	U

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Mol	Chain	Res	Type
35	BA	1359	A
35	BA	1368	G
35	BA	1379	A
35	BA	1384	A
35	BA	1385	G
35	BA	1407	C
35	BA	1416	G
35	BA	1417	C
35	BA	1420	U
35	BA	1427	A
35	BA	1428	C
35	BA	1437	C
35	BA	1445	A
35	BA	1449	A
35	BA	1450	G
35	BA	1452	A
35	BA	1459	G
35	BA	1461	G
35	BA	1467	C
35	BA	1471	A
35	BA	1478	G
35	BA	1481	U
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1498	C
35	BA	1502	C
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1512	U
35	BA	1520	G
35	BA	1528(A)	A
35	BA	1529	G
35	BA	1532	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	1533	G
35	BA	1543	C
35	BA	1547	C
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1566	A
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1587	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	1616	A
35	BA	1617	C
35	BA	1618	A
35	BA	1640	C
35	BA	1648	C
35	BA	1653	G
35	BA	1654	A
35	BA	1674	G
35	BA	1686	C
35	BA	1700	A
35	BA	1701	A
35	BA	1718	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1744	C
35	BA	1746	G
35	BA	1748	G
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1782	C

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Mol	Chain	Res	Type
35	BA	1785	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1816	G
35	BA	1820	U
35	BA	1829	A
35	BA	1835	G
35	BA	1838	C
35	BA	1839	G
35	BA	1847	A
35	BA	1858	G
35	BA	1865	G
35	BA	1866	C
35	BA	1877	A
35	BA	1878	G
35	BA	1880	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1900	A
35	BA	1906	G
35	BA	1912	A
35	BA	1913	A
35	BA	1914	C
35	BA	1929	G
35	BA	1930	G
35	BA	1936	A
35	BA	1938	A
35	BA	1939	U
35	BA	1940	U
35	BA	1941	C
35	BA	1955	U
35	BA	1963	U
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1982	C
35	BA	1993	U
35	BA	2020	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	2023	G
35	BA	2031	A
35	BA	2032	G
35	BA	2033	A
35	BA	2036	C
35	BA	2037	G
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2059	A
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2092	U
35	BA	2093	G
35	BA	2103	C
35	BA	2104	G
35	BA	2116	G
35	BA	2117	A
35	BA	2120	G
35	BA	2122	U
35	BA	2127	G
35	BA	2131	G
35	BA	2133	G
35	BA	2147	G
35	BA	2172	U
35	BA	2173	A
35	BA	2175	C
35	BA	2176	A
35	BA	2179	C
35	BA	2185	C
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2192	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

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Mol	Chain	Res	Type
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2243	U
35	BA	2263	C
35	BA	2275	C
35	BA	2283	C
35	BA	2287	A
35	BA	2289	G
35	BA	2290	G
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G
35	BA	2336	A
35	BA	2345	G
35	BA	2347	C
35	BA	2349	G
35	BA	2350	C
35	BA	2383	G
35	BA	2385	C
35	BA	2402	C
35	BA	2403	C
35	BA	2406	U
35	BA	2423	U
35	BA	2425	A
35	BA	2429	G
35	BA	2430	A
35	BA	2439	A
35	BA	2440	C
35	BA	2441	C
35	BA	2448	A
35	BA	2468	G
35	BA	2469	A
35	BA	2470	G
35	BA	2475	C

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Mol	Chain	Res	Type
35	BA	2476	A
35	BA	2482	G
35	BA	2484	G
35	BA	2491	U
35	BA	2502	G
35	BA	2505	G
35	BA	2506	U
35	BA	2518	A
35	BA	2520	C
35	BA	2523	G
35	BA	2529	G
35	BA	2534	A
35	BA	2542	A
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A
35	BA	2567	G
35	BA	2569	G
35	BA	2573	C
35	BA	2574	G
35	BA	2585	U
35	BA	2586	C
35	BA	2602	A
35	BA	2612	C
35	BA	2614	A
35	BA	2615	U
35	BA	2630	G
35	BA	2654	A
35	BA	2655	G
35	BA	2673	G
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2714	G
35	BA	2720	U
35	BA	2726	U
35	BA	2733	A
35	BA	2748	A

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Mol	Chain	Res	Type
35	BA	2754	U
35	BA	2755	C
35	BA	2757	A
35	BA	2759	G
35	BA	2765	A
35	BA	2778	A
35	BA	2781	A
35	BA	2787	C
35	BA	2789	C
35	BA	2790	A
35	BA	2802	G
35	BA	2803	C
35	BA	2804	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2823	A
35	BA	2827	C
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U
35	BA	2872	G
35	BA	2873	A
35	BA	2874	C
35	BA	2879	C
35	BA	2892	A
35	BA	2893	G
36	BB	8	U
36	BB	12	C
36	BB	13	A
36	BB	27	C
36	BB	33	G
36	BB	42	C
36	BB	45	A
36	BB	52	A
36	BB	53	A
36	BB	57	A
36	BB	67	G
36	BB	73	A
36	BB	85	G
36	BB	86	G

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Mol	Chain	Res	Type
36	BB	110	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	59	A
1	CA	61	G
1	CA	79	G
1	CA	80	G
1	CA	81	U
1	CA	84	U
1	CA	88	A
1	CA	89	C
1	CA	92	C
1	CA	111	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	122	G
1	CA	129(A)	G
1	CA	131	C
1	CA	142	G
1	CA	144	G
1	CA	172	A
1	CA	182	U
1	CA	195	A
1	CA	197	A
1	CA	203	U
1	CA	204	U
1	CA	216	G
1	CA	220	G
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	275	G
1	CA	289	G
1	CA	306	G

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Mol	Chain	Res	Type
1	CA	321	A
1	CA	329	A
1	CA	332	G
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	358	U
1	CA	367	U
1	CA	368	U
1	CA	370	C
1	CA	373	A
1	CA	389	A
1	CA	390	C
1	CA	392	G
1	CA	397	A
1	CA	398	C
1	CA	412	A
1	CA	414	A
1	CA	421	U
1	CA	423	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	439	A
1	CA	452	A
1	CA	453	A
1	CA	482	A
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	499	A
1	CA	500	G
1	CA	508	C
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	518	C
1	CA	527	G
1	CA	532	A
1	CA	533	A

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Mol	Chain	Res	Type
1	CA	534	U
1	CA	547	A
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	576	G
1	CA	577	G
1	CA	596	C
1	CA	630	G
1	CA	631	G
1	CA	632	A
1	CA	653	A
1	CA	665	A
1	CA	687	A
1	CA	688	G
1	CA	723	U
1	CA	749	C
1	CA	755	G
1	CA	793	U
1	CA	817	C
1	CA	819	A
1	CA	828	A
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	859	A
1	CA	885	G
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	966	G
1	CA	967	C
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	974	A
1	CA	975	A

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Mol	Chain	Res	Type
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1001	A
1	CA	1004	A
1	CA	1026	G
1	CA	1030(B)	C
1	CA	1050	G
1	CA	1054	C
1	CA	1055	A
1	CA	1066	C
1	CA	1067	A
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1117	G
1	CA	1118	C
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1141	C
1	CA	1146	A
1	CA	1153	C
1	CA	1159	U
1	CA	1182	G
1	CA	1183	A
1	CA	1184	G
1	CA	1187	G
1	CA	1196	U

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Mol	Chain	Res	Type
1	CA	1197	G
1	CA	1200	C
1	CA	1201	A
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1224	G
1	CA	1225	A
1	CA	1227	A
1	CA	1238	A
1	CA	1249	C
1	CA	1256	A
1	CA	1257	U
1	CA	1280	A
1	CA	1281	U
1	CA	1286	A
1	CA	1287	A
1	CA	1299	A
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C
1	CA	1319	A
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1335	C
1	CA	1338	G
1	CA	1347	G
1	CA	1364	U
1	CA	1370	G
1	CA	1398	A
1	CA	1419	G
1	CA	1436	U
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1447	A
1	CA	1456	G
1	CA	1492	A
1	CA	1497	G

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Mol	Chain	Res	Type
1	CA	1499	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
22	CV	3	C
22	CV	4	C
22	CV	17	C
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	22	G
22	CV	37	A
22	CV	42	C
22	CV	45	U
22	CV	46	G
22	CV	47	U
22	CV	48	C
22	CV	63	G
22	CV	72	C
22	CV	75	C
22	CV	76	A
22	CW	9	A
22	CW	16	U
22	CW	17	C
22	CW	18	G
22	CW	19	G
22	CW	21	A
22	CW	22	G
22	CW	39	U
22	CW	40	C
22	CW	43	C
22	CW	48	C
22	CW	52	G
22	CW	58	A
22	CW	61	C
22	CW	70	G
22	CW	71	G

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Mol	Chain	Res	Type
23	CX	24	A
35	DA	10	G
35	DA	28	A
35	DA	34	C
35	DA	45	C
35	DA	51	G
35	DA	55	G
35	DA	59	U
35	DA	61	G
35	DA	69	C
35	DA	71	A
35	DA	72	U
35	DA	75	G
35	DA	84	A
35	DA	85	G
35	DA	88	G
35	DA	90	U
35	DA	94	C
35	DA	99	U
35	DA	100	G
35	DA	102	G
35	DA	118	A
35	DA	119	A
35	DA	120	U
35	DA	139(A)	G
35	DA	140	G
35	DA	141	A
35	DA	142	A
35	DA	154	G
35	DA	154(A)	C
35	DA	157	U
35	DA	158	U
35	DA	175	G
35	DA	181	A
35	DA	182	A
35	DA	196	A
35	DA	197	A
35	DA	199	A
35	DA	204	A
35	DA	205	G
35	DA	215	G
35	DA	216	A

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Mol	Chain	Res	Type
35	DA	221	A
35	DA	222	A
35	DA	228	A
35	DA	229	A
35	DA	230	U
35	DA	248	G
35	DA	252	G
35	DA	261	G
35	DA	266	G
35	DA	271(J)	C
35	DA	271(K)	U
35	DA	271(L)	U
35	DA	271(M)	G
35	DA	271(N)	U
35	DA	271(O)	C
35	DA	271(P)	C
35	DA	271(T)	C
35	DA	271(Y)	U
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	275	G
35	DA	279	C
35	DA	284	U
35	DA	286	C
35	DA	287	C
35	DA	311	A
35	DA	316	C
35	DA	329	G
35	DA	330	A
35	DA	352	G
35	DA	353	G
35	DA	356	G
35	DA	362	U
35	DA	363	G
35	DA	363(B)	G
35	DA	363(E)	U
35	DA	371	A
35	DA	372	G
35	DA	386	G
35	DA	396	G
35	DA	405	U
35	DA	411	G

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Mol	Chain	Res	Type
35	DA	412	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	454	A
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U
35	DA	481	G
35	DA	494	G
35	DA	495	G
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	528	A
35	DA	529	A
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	545	C
35	DA	548	A
35	DA	551	G
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	586	A
35	DA	588	U
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614(B)	G
35	DA	615	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	651	G
35	DA	653	A
35	DA	654	A
35	DA	654(B)	C
35	DA	654(I)	C

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Mol	Chain	Res	Type
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(M)	C
35	DA	656	G
35	DA	686	G
35	DA	708	C
35	DA	722	A
35	DA	730	C
35	DA	740	U
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	776	G
35	DA	782	A
35	DA	784	A
35	DA	785	G
35	DA	790	C
35	DA	792	G
35	DA	805	G
35	DA	812	C
35	DA	819	A
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	848	G
35	DA	856	C
35	DA	857	C
35	DA	859	G
35	DA	866	A
35	DA	878	A
35	DA	879	G
35	DA	886	C
35	DA	890	A
35	DA	896	A
35	DA	897	C
35	DA	910	A
35	DA	914	C
35	DA	915	C
35	DA	917	A
35	DA	926	A
35	DA	932	G
35	DA	941	A

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Mol	Chain	Res	Type
35	DA	945	A
35	DA	946	G
35	DA	958	U
35	DA	959	A
35	DA	961	C
35	DA	965	C
35	DA	974	G
35	DA	975	C
35	DA	975(A)	G
35	DA	983	A
35	DA	991	C
35	DA	996	A
35	DA	999	U
35	DA	1000	A
35	DA	1012	U
35	DA	1013	C
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G
35	DA	1026	U
35	DA	1039	G
35	DA	1043	C
35	DA	1046	A
35	DA	1047	G
35	DA	1048	A
35	DA	1067	A
35	DA	1070	A
35	DA	1088	A
35	DA	1108	U
35	DA	1111	A
35	DA	1112	G
35	DA	1116	C
35	DA	1126	A
35	DA	1127	A
35	DA	1129	A
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G
35	DA	1155	A
35	DA	1170	G
35	DA	1173	G
35	DA	1174	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	1175	U
35	DA	1176	G
35	DA	1177	A
35	DA	1195	G
35	DA	1204	A
35	DA	1205	U
35	DA	1211	U
35	DA	1220	A
35	DA	1221	C
35	DA	1241	A
35	DA	1250	G
35	DA	1253	A
35	DA	1256	G
35	DA	1271	G
35	DA	1272	A
35	DA	1281	G
35	DA	1286	A
35	DA	1300	U
35	DA	1301	A
35	DA	1314	C
35	DA	1319	G
35	DA	1321	A
35	DA	1329	U
35	DA	1332	G
35	DA	1345	C
35	DA	1349	A
35	DA	1352	U
35	DA	1359	A
35	DA	1368	G
35	DA	1379	A
35	DA	1384	A
35	DA	1385	G
35	DA	1407	C
35	DA	1416	G
35	DA	1417	C
35	DA	1420	U
35	DA	1427	A
35	DA	1428	C
35	DA	1437	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	G

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Mol	Chain	Res	Type
35	DA	1452	A
35	DA	1459	G
35	DA	1461	G
35	DA	1467	C
35	DA	1471	A
35	DA	1478	G
35	DA	1481	U
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1496	A
35	DA	1497	U
35	DA	1498	C
35	DA	1502	C
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1512	U
35	DA	1520	G
35	DA	1528(A)	A
35	DA	1529	G
35	DA	1532	C
35	DA	1533	G
35	DA	1543	C
35	DA	1547	C
35	DA	1554	A
35	DA	1558	A
35	DA	1559	G
35	DA	1566	A
35	DA	1569	A
35	DA	1578	U
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A
35	DA	1587	A
35	DA	1588	C
35	DA	1591	G

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Mol	Chain	Res	Type
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1616	A
35	DA	1617	C
35	DA	1618	A
35	DA	1640	C
35	DA	1648	C
35	DA	1653	G
35	DA	1654	A
35	DA	1674	G
35	DA	1686	C
35	DA	1700	A
35	DA	1701	A
35	DA	1718	G
35	DA	1722	A
35	DA	1739	U
35	DA	1740	G
35	DA	1744	C
35	DA	1746	G
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1782	C
35	DA	1785	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1816	G
35	DA	1820	U
35	DA	1829	A
35	DA	1835	G
35	DA	1838	C
35	DA	1839	G
35	DA	1847	A
35	DA	1858	G
35	DA	1865	G
35	DA	1866	C
35	DA	1877	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	1878	G
35	DA	1880	C
35	DA	1882	C
35	DA	1885	A
35	DA	1888	G
35	DA	1900	A
35	DA	1906	G
35	DA	1912	A
35	DA	1913	A
35	DA	1914	C
35	DA	1929	G
35	DA	1930	G
35	DA	1936	A
35	DA	1938	A
35	DA	1939	U
35	DA	1940	U
35	DA	1941	C
35	DA	1955	U
35	DA	1963	U
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1982	C
35	DA	1993	U
35	DA	2020	A
35	DA	2023	G
35	DA	2031	A
35	DA	2032	G
35	DA	2033	A
35	DA	2036	C
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2059	A
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2069	G
35	DA	2092	U
35	DA	2093	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	2103	C
35	DA	2104	G
35	DA	2116	G
35	DA	2117	A
35	DA	2120	G
35	DA	2122	U
35	DA	2127	G
35	DA	2131	G
35	DA	2133	G
35	DA	2147	G
35	DA	2172	U
35	DA	2173	A
35	DA	2175	C
35	DA	2176	A
35	DA	2179	C
35	DA	2185	C
35	DA	2187	G
35	DA	2189	U
35	DA	2190	G
35	DA	2192	G
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2207	G
35	DA	2208	A
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2243	U
35	DA	2263	C
35	DA	2275	C
35	DA	2283	C
35	DA	2287	A
35	DA	2289	G
35	DA	2290	G
35	DA	2305	A
35	DA	2307	G
35	DA	2308	G
35	DA	2309	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	2313	C
35	DA	2319	G
35	DA	2320	A
35	DA	2325	G
35	DA	2336	A
35	DA	2345	G
35	DA	2347	C
35	DA	2349	G
35	DA	2350	C
35	DA	2383	G
35	DA	2385	C
35	DA	2402	C
35	DA	2403	C
35	DA	2406	U
35	DA	2423	U
35	DA	2425	A
35	DA	2429	G
35	DA	2430	A
35	DA	2439	A
35	DA	2440	C
35	DA	2441	C
35	DA	2448	A
35	DA	2468	G
35	DA	2469	A
35	DA	2470	G
35	DA	2475	C
35	DA	2476	A
35	DA	2482	G
35	DA	2484	G
35	DA	2491	U
35	DA	2502	G
35	DA	2505	G
35	DA	2506	U
35	DA	2518	A
35	DA	2520	C
35	DA	2523	G
35	DA	2529	G
35	DA	2534	A
35	DA	2542	A
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A

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Mol	Chain	Res	Type
35	DA	2567	G
35	DA	2569	G
35	DA	2573	C
35	DA	2574	G
35	DA	2585	U
35	DA	2586	C
35	DA	2602	A
35	DA	2612	C
35	DA	2614	A
35	DA	2615	U
35	DA	2630	G
35	DA	2636	U
35	DA	2654	A
35	DA	2655	G
35	DA	2673	G
35	DA	2682	U
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2703	C
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2714	G
35	DA	2720	U
35	DA	2726	U
35	DA	2733	A
35	DA	2748	A
35	DA	2754	U
35	DA	2755	C
35	DA	2757	A
35	DA	2759	G
35	DA	2765	A
35	DA	2778	A
35	DA	2781	A
35	DA	2787	C
35	DA	2789	C
35	DA	2790	A
35	DA	2802	G
35	DA	2803	C
35	DA	2804	C
35	DA	2808	U
35	DA	2820	A

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Mol	Chain	Res	Type
35	DA	2821	A
35	DA	2823	A
35	DA	2827	C
35	DA	2833	G
35	DA	2834	G
35	DA	2835	A
35	DA	2849	U
35	DA	2872	G
35	DA	2873	A
35	DA	2874	C
35	DA	2879	C
35	DA	2892	A
35	DA	2893	G
36	DB	8	U
36	DB	12	C
36	DB	13	A
36	DB	27	C
36	DB	33	G
36	DB	42	C
36	DB	45	A
36	DB	52	A
36	DB	53	A
36	DB	57	A
36	DB	67	G
36	DB	73	A
36	DB	85	G
36	DB	110	G

All (198) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	79	G
1	AA	115	G
1	AA	119	A
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	274	A
1	AA	328	C
1	AA	372	C

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Mol	Chain	Res	Type
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	495	A
1	AA	508	C
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	687	A
1	AA	748	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1067	A
1	AA	1145	C
1	AA	1182	G
1	AA	1200	C
1	AA	1201	A
1	AA	1224	G
1	AA	1285	A
1	AA	1300	G
1	AA	1504	G
22	AV	75	C
22	AW	17	C
22	AW	47	U
22	AW	70	G
23	AX	19	U
35	BA	27	G
35	BA	71	A
35	BA	74	A
35	BA	199	A
35	BA	221	A
35	BA	272	G
35	BA	283	A
35	BA	370	G
35	BA	474	G
35	BA	494	G
35	BA	507	A
35	BA	587	C
35	BA	603	A
35	BA	613	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	614(A)	U
35	BA	614(B)	G
35	BA	654(J)	A
35	BA	740	U
35	BA	752	A
35	BA	764	A
35	BA	856	C
35	BA	945	A
35	BA	1022	G
35	BA	1126	A
35	BA	1210	A
35	BA	1286	A
35	BA	1300	U
35	BA	1332	G
35	BA	1427	A
35	BA	1558	A
35	BA	1608	A
35	BA	1653	G
35	BA	1686	C
35	BA	1782	C
35	BA	1784	A
35	BA	1799	G
35	BA	1819	A
35	BA	1899	G
35	BA	1912	A
35	BA	1992	G
35	BA	2036	C
35	BA	2092	U
35	BA	2126	A
35	BA	2172	U
35	BA	2225	A
35	BA	2263	C
35	BA	2282	G
35	BA	2290	G
35	BA	2308	G
35	BA	2422	A
35	BA	2439	A
35	BA	2468	G
35	BA	2481	G
35	BA	2542	A
35	BA	2613	U
35	BA	2689	U

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Mol	Chain	Res	Type
35	BA	2756	U
35	BA	2873	A
36	BB	12	C
36	BB	56	G
36	BB	66	A
1	CA	30	U
1	CA	60	A
1	CA	79	G
1	CA	115	G
1	CA	119	A
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	274	A
1	CA	328	C
1	CA	372	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	495	A
1	CA	508	C
1	CA	509	A
1	CA	533	A
1	CA	560	U
1	CA	687	A
1	CA	748	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1067	A
1	CA	1145	C
1	CA	1182	G
1	CA	1200	C
1	CA	1201	A
1	CA	1224	G
1	CA	1285	A
1	CA	1300	G
1	CA	1504	G
22	CW	15	G
22	CW	17	C
22	CW	47	U

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Mol	Chain	Res	Type
22	CW	70	G
35	DA	27	G
35	DA	71	A
35	DA	74	A
35	DA	197	A
35	DA	199	A
35	DA	221	A
35	DA	272	G
35	DA	283	A
35	DA	370	G
35	DA	474	G
35	DA	494	G
35	DA	507	A
35	DA	587	C
35	DA	603	A
35	DA	613	G
35	DA	614(A)	U
35	DA	614(B)	G
35	DA	654(J)	A
35	DA	740	U
35	DA	752	A
35	DA	764	A
35	DA	827	U
35	DA	856	C
35	DA	945	A
35	DA	1022	G
35	DA	1126	A
35	DA	1210	A
35	DA	1286	A
35	DA	1300	U
35	DA	1332	G
35	DA	1427	A
35	DA	1558	A
35	DA	1608	A
35	DA	1653	G
35	DA	1782	C
35	DA	1784	A
35	DA	1799	G
35	DA	1819	A
35	DA	1912	A
35	DA	1992	G
35	DA	2036	C

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Mol	Chain	Res	Type
35	DA	2092	U
35	DA	2126	A
35	DA	2172	U
35	DA	2225	A
35	DA	2263	C
35	DA	2282	G
35	DA	2308	G
35	DA	2422	A
35	DA	2439	A
35	DA	2468	G
35	DA	2481	G
35	DA	2542	A
35	DA	2613	U
35	DA	2689	U
35	DA	2756	U
35	DA	2873	A
36	DB	12	C
36	DB	56	G
36	DB	66	A

## 5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 1098 ligands modelled in this entry, 1098 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.7 Other polymers ⓘ

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	AA	1504/1522 (98%)	-0.00	26 (1%) 67 32	43, 106, 183, 201	0
1	CA	1504/1522 (98%)	-0.09	41 (2%) 52 23	35, 87, 183, 201	0
2	AB	235/256 (91%)	0.38	7 (2%) 48 21	76, 137, 191, 201	0
2	CB	235/256 (91%)	0.14	5 (2%) 60 28	51, 117, 180, 201	0
3	AC	207/239 (86%)	0.45	8 (3%) 37 16	71, 130, 177, 201	0
3	CC	207/239 (86%)	-0.00	0 100 100	48, 96, 159, 200	0
4	AD	208/209 (99%)	0.40	10 (4%) 29 12	53, 116, 168, 199	0
4	CD	208/209 (99%)	0.07	1 (0%) 88 63	41, 95, 158, 183	0
5	AE	151/162 (93%)	0.17	2 (1%) 74 39	48, 102, 156, 179	0
5	CE	151/162 (93%)	-0.04	2 (1%) 74 39	29, 86, 145, 193	0
6	AF	101/101 (100%)	0.50	1 (0%) 79 46	75, 120, 170, 189	0
6	CF	101/101 (100%)	0.20	2 (1%) 62 29	60, 116, 162, 184	0
7	AG	155/156 (99%)	0.56	9 (5%) 22 9	64, 137, 182, 201	0
7	CG	155/156 (99%)	0.07	3 (1%) 64 30	42, 89, 143, 193	0
8	AH	138/138 (100%)	0.25	4 (2%) 49 22	50, 101, 152, 201	0
8	CH	138/138 (100%)	0.05	0 100 100	50, 97, 148, 188	0
9	AI	127/128 (99%)	0.91	15 (11%) 5 4	66, 148, 192, 201	0
9	CI	127/128 (99%)	0.37	4 (3%) 47 21	43, 97, 148, 183	0
10	AJ	99/105 (94%)	1.04	17 (17%) 2 2	64, 154, 198, 201	0
10	CJ	99/105 (94%)	0.57	5 (5%) 27 11	44, 122, 197, 201	0
11	AK	119/129 (92%)	0.50	7 (5%) 22 9	52, 100, 155, 172	0
11	CK	119/129 (92%)	0.17	7 (5%) 22 9	49, 89, 165, 183	0
12	AL	126/132 (95%)	0.25	4 (3%) 45 19	42, 81, 146, 193	0
12	CL	126/132 (95%)	0.24	7 (5%) 24 10	37, 75, 148, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
13	AM	121/126 (96%)	0.54	6 (4%)	28	11	69, 133, 191, 201	0
13	CM	121/126 (96%)	0.12	2 (1%)	67	32	26, 96, 156, 189	0
14	AN	60/61 (98%)	0.45	1 (1%)	67	32	76, 124, 173, 187	0
14	CN	60/61 (98%)	-0.05	0	100	100	40, 82, 118, 155	0
15	AO	88/89 (98%)	0.28	1 (1%)	77	42	43, 100, 153, 177	0
15	CO	88/89 (98%)	0.25	1 (1%)	77	42	55, 92, 138, 155	0
16	AP	84/88 (95%)	0.47	4 (4%)	29	12	59, 104, 142, 201	0
16	CP	84/88 (95%)	0.68	6 (7%)	16	7	56, 106, 157, 201	0
17	AQ	100/105 (95%)	0.32	3 (3%)	48	21	54, 96, 137, 165	0
17	CQ	100/105 (95%)	0.22	2 (2%)	62	29	53, 99, 152, 162	0
18	AR	70/88 (79%)	0.35	1 (1%)	72	37	62, 116, 160, 183	0
18	CR	70/88 (79%)	0.44	3 (4%)	34	14	51, 101, 157, 183	0
19	AS	79/93 (84%)	0.62	4 (5%)	27	11	91, 140, 191, 201	0
19	CS	79/93 (84%)	0.50	5 (6%)	19	8	51, 103, 193, 201	0
20	AT	99/106 (93%)	0.53	3 (3%)	48	21	55, 112, 165, 201	0
20	CT	99/106 (93%)	0.65	5 (5%)	27	11	68, 115, 177, 201	0
21	AU	25/27 (92%)	1.25	6 (24%)	1	2	78, 131, 167, 178	0
21	CU	25/27 (92%)	0.42	0	100	100	58, 85, 117, 123	0
22	AV	76/76 (100%)	-0.13	0	100	100	42, 85, 152, 176	0
22	AW	76/76 (100%)	1.37	21 (27%)	1	2	48, 184, 201, 201	0
22	CV	76/76 (100%)	-0.38	1 (1%)	74	39	35, 65, 135, 185	0
22	CW	76/76 (100%)	0.83	9 (11%)	5	4	30, 166, 198, 201	0
23	AX	8/8 (100%)	0.34	1 (12%)	5	3	67, 76, 160, 166	0
23	CX	8/8 (100%)	0.05	0	100	100	46, 62, 153, 170	0
24	AY	351/351 (100%)	0.40	29 (8%)	11	6	31, 109, 190, 201	0
24	CY	351/351 (100%)	0.32	21 (5%)	21	9	25, 95, 188, 201	0
25	B0	76/85 (89%)	0.09	0	100	100	25, 64, 105, 177	0
25	D0	76/85 (89%)	0.09	1 (1%)	74	39	10, 43, 103, 179	0
26	B1	94/98 (95%)	0.02	1 (1%)	77	42	23, 61, 123, 173	0
26	D1	94/98 (95%)	-0.11	1 (1%)	77	42	18, 52, 109, 155	0
27	B2	71/72 (98%)	0.24	2 (2%)	50	22	36, 85, 156, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
27	D2	71/72 (98%)	0.02	2 (2%)	50	22	27, 76, 144, 186	0
28	B3	60/60 (100%)	0.30	2 (3%)	44	19	19, 56, 131, 197	0
28	D3	60/60 (100%)	0.23	2 (3%)	44	19	20, 51, 112, 201	0
29	B4	31/71 (43%)	0.73	3 (9%)	8	5	99, 184, 201, 201	0
30	B5	59/60 (98%)	-0.05	2 (3%)	43	18	22, 74, 170, 190	0
30	D5	59/60 (98%)	0.11	2 (3%)	43	18	7, 55, 183, 201	0
31	B6	45/54 (83%)	0.67	2 (4%)	33	13	39, 85, 140, 198	0
31	D6	45/54 (83%)	0.25	1 (2%)	59	26	24, 65, 117, 183	0
32	B7	49/49 (100%)	0.14	1 (2%)	62	29	7, 48, 129, 165	0
32	D7	49/49 (100%)	0.08	0	100	100	7, 37, 113, 189	0
33	B8	64/65 (98%)	0.03	0	100	100	17, 51, 125, 160	0
33	D8	64/65 (98%)	-0.15	0	100	100	8, 40, 120, 162	0
34	B9	36/37 (97%)	0.43	0	100	100	45, 69, 127, 147	0
34	D9	36/37 (97%)	0.54	2 (5%)	24	10	40, 74, 133, 162	0
35	BA	2886/2901 (99%)	-0.19	79 (2%)	52	23	16, 58, 179, 201	0
35	DA	2886/2901 (99%)	-0.13	88 (3%)	48	21	14, 51, 181, 201	0
36	BB	119/122 (97%)	-0.16	0	100	100	46, 105, 160, 186	0
36	DB	119/122 (97%)	-0.32	0	100	100	34, 65, 99, 129	0
37	BC	191/229 (83%)	2.73	104 (54%)	0	1	91, 174, 201, 201	0
37	DC	191/229 (83%)	2.61	109 (57%)	0	1	104, 177, 201, 201	0
38	BD	272/276 (98%)	0.06	1 (0%)	90	70	27, 71, 122, 165	0
38	DD	272/276 (98%)	-0.03	0	100	100	25, 66, 108, 168	0
39	BE	205/206 (99%)	0.00	2 (0%)	79	46	22, 69, 152, 201	0
39	DE	205/206 (99%)	0.11	4 (1%)	62	29	16, 67, 144, 197	0
40	BF	208/210 (99%)	-0.16	2 (0%)	79	46	9, 52, 134, 194	0
40	DF	208/210 (99%)	-0.09	5 (2%)	56	25	9, 48, 140, 179	0
41	BG	181/182 (99%)	0.44	6 (3%)	44	19	64, 118, 173, 200	0
41	DG	181/182 (99%)	0.02	4 (2%)	59	26	30, 76, 137, 201	0
42	BH	160/180 (88%)	0.57	13 (8%)	12	6	50, 123, 181, 201	0
42	DH	160/180 (88%)	0.71	16 (10%)	8	5	63, 137, 186, 201	0
43	BI	146/148 (98%)	0.35	3 (2%)	60	28	41, 138, 187, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
44	BJ	0/130	-	-	-	-
44	DJ	0/130	-	-	-	-
45	BK	141/147 (95%)	1.13	20 (14%) 3 3	85, 158, 195, 201	0
45	DK	141/147 (95%)	1.20	25 (17%) 2 2	99, 158, 197, 201	0
46	BN	139/140 (99%)	-0.04	0 100 100	30, 70, 129, 164	0
46	DN	139/140 (99%)	-0.07	0 100 100	24, 62, 122, 186	0
47	BO	122/122 (100%)	-0.17	0 100 100	28, 64, 101, 158	0
47	DO	122/122 (100%)	-0.13	0 100 100	25, 68, 101, 120	0
48	BP	146/150 (97%)	0.47	6 (4%) 35 15	27, 89, 163, 200	0
48	DP	146/150 (97%)	0.13	3 (2%) 60 28	25, 72, 147, 201	0
49	BQ	141/141 (100%)	-0.00	2 (1%) 72 37	23, 65, 127, 198	0
49	DQ	141/141 (100%)	-0.16	2 (1%) 72 37	14, 53, 105, 196	0
50	BR	117/118 (99%)	-0.04	0 100 100	33, 72, 126, 156	0
50	DR	117/118 (99%)	0.06	0 100 100	26, 68, 122, 150	0
51	BS	99/112 (88%)	0.48	3 (3%) 48 21	60, 104, 165, 188	0
51	DS	99/112 (88%)	-0.14	0 100 100	25, 61, 120, 171	0
52	BT	138/146 (94%)	0.16	2 (1%) 72 37	44, 87, 164, 201	0
52	DT	138/146 (94%)	0.20	7 (5%) 27 11	39, 87, 172, 199	0
53	BU	117/118 (99%)	-0.18	0 100 100	18, 55, 112, 140	0
53	DU	117/118 (99%)	-0.27	1 (0%) 81 49	12, 45, 111, 190	0
54	BV	101/101 (100%)	0.12	0 100 100	34, 79, 137, 185	0
54	DV	101/101 (100%)	-0.01	1 (0%) 79 46	25, 66, 141, 201	0
55	BW	113/113 (100%)	-0.10	2 (1%) 65 31	25, 57, 114, 201	0
55	DW	113/113 (100%)	-0.16	1 (0%) 81 49	16, 47, 115, 170	0
56	BX	93/96 (96%)	0.05	0 100 100	31, 74, 129, 155	0
56	DX	93/96 (96%)	-0.04	0 100 100	33, 67, 114, 160	0
57	BY	101/110 (91%)	0.57	7 (6%) 17 7	27, 84, 157, 201	0
57	DY	101/110 (91%)	0.40	5 (4%) 28 11	25, 81, 162, 201	0
58	BZ	177/206 (85%)	0.23	4 (2%) 57 26	36, 98, 156, 201	0
58	DZ	177/206 (85%)	-0.05	0 100 100	30, 83, 130, 192	0
59	D4	30/30 (100%)	0.14	0 100 100	80, 143, 184, 200	0
60	DI	146/148 (98%)	0.33	2 (1%) 72 37	28, 109, 155, 183	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
All	All	22209/23211 (95%)	0.13	875 (3%) 37 16	7, 84, 181, 201	0

All (875) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
35	DA	654(A)	G	14.1
35	DA	2142	C	11.3
35	DA	2143	C	10.9
35	DA	2144	U	10.9
1	CA	89	C	10.6
37	BC	214	VAL	10.6
35	BA	2128	C	10.4
35	DA	654(O)	G	10.3
37	BC	165	ASN	10.3
37	BC	215	THR	10.3
1	CA	83	U	9.8
37	BC	210	ARG	9.8
1	AA	82	U	9.7
45	DK	2	LYS	9.7
1	CA	82	U	9.6
48	BP	150	ALA	9.4
19	AS	82	GLY	9.4
37	BC	27	ARG	9.0
35	BA	2173	A	8.9
35	BA	2117	A	8.8
37	BC	108	MET	8.8
37	DC	157	LYS	8.7
1	CA	1036	G	8.7
35	DA	654(M)	C	8.5
35	DA	654(N)	G	8.5
35	DA	2155	G	8.5
35	DA	2129	C	8.3
37	BC	141	LYS	8.1
37	BC	166	ASP	8.1
37	BC	133	PRO	8.0
35	BA	2119	A	8.0
35	DA	2154	G	7.9
37	BC	90	GLY	7.8
35	BA	2156	G	7.8
45	DK	3	LYS	7.8
35	DA	654(H)	G	7.6
37	BC	71	GLN	7.6

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Mol	Chain	Res	Type	RSRZ
35	DA	654(G)	C	7.6
37	BC	143	GLY	7.5
45	DK	1	MET	7.4
37	BC	140	PRO	7.3
37	BC	178	ALA	7.3
1	AA	89	C	7.3
35	BA	2118	U	7.3
37	DC	190	ARG	7.3
35	DA	654(P)	C	7.2
35	BA	2802	G	7.2
35	DA	654(D)	G	7.1
37	DC	132	GLY	7.0
37	DC	144	THR	6.9
19	AS	81	ARG	6.9
35	DA	654(B)	C	6.9
1	CA	88	A	6.8
11	CK	128	ALA	6.8
35	BA	2796	U	6.8
19	CS	82	GLY	6.7
35	DA	654(K)	C	6.7
35	DA	2801	A	6.6
1	CA	1030(C)	G	6.6
37	DC	156	ILE	6.6
35	DA	2802	G	6.6
24	AY	69	LEU	6.6
37	BC	155	GLU	6.5
35	DA	654(L)	G	6.5
41	DG	48	GLU	6.5
1	AA	84	U	6.4
1	CA	204	U	6.4
10	AJ	34	VAL	6.4
35	DA	2796	U	6.4
1	CA	91	C	6.4
35	BA	2110	G	6.4
37	DC	224	ILE	6.3
22	AW	55	U	6.2
35	BA	2799	C	6.2
35	BA	2129	C	6.2
8	AH	131	GLY	6.2
37	BC	88	GLU	6.1
1	CA	1030(B)	C	6.1
35	BA	2132	U	6.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	AW	17	C	6.1
37	BC	109	ASP	6.0
37	DC	71	GLN	6.0
37	BC	89	ALA	6.0
35	DA	2896	C	5.9
37	BC	43	VAL	5.9
45	BK	3	LYS	5.9
37	BC	120	MET	5.9
1	AA	83	U	5.9
37	DC	183	GLU	5.9
22	CW	44	G	5.9
37	DC	166	ASP	5.8
37	DC	200	LYS	5.8
1	CA	92	C	5.8
1	CA	81	U	5.8
37	BC	164	ARG	5.8
37	BC	177	LYS	5.8
24	CY	80	PRO	5.8
35	BA	2795	G	5.8
37	DC	141	LYS	5.8
57	BY	50	ARG	5.8
37	DC	217	THR	5.8
35	DA	654(E)	G	5.8
35	DA	2141	G	5.8
1	AA	1001(A)	G	5.7
37	DC	152	ILE	5.7
37	BC	42	GLU	5.7
45	BK	95	LYS	5.7
1	CA	80	G	5.7
35	BA	2131	G	5.7
35	BA	2141	G	5.6
37	DC	87	GLU	5.6
35	DA	654(T)	C	5.6
37	DC	131	LEU	5.6
35	DA	2140	C	5.6
37	BC	142	ALA	5.6
37	BC	65	PRO	5.5
27	B2	43	GLN	5.5
35	DA	654(I)	C	5.4
30	B5	60	VAL	5.4
3	AC	147	LYS	5.4
48	BP	149	GLU	5.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2130	U	5.4
35	DA	654(S)	G	5.4
37	BC	91	ALA	5.3
37	DC	189	ILE	5.3
37	BC	216	THR	5.3
35	BA	2157	G	5.3
35	DA	2135	A	5.3
41	BG	48	GLU	5.3
37	DC	218	MET	5.2
35	DA	2176	A	5.2
35	DA	654(C)	G	5.2
35	BA	1509	C	5.2
37	DC	69	GLY	5.2
35	BA	2140	C	5.1
37	BC	35	ALA	5.1
37	DC	191	ALA	5.1
35	DA	2799	C	5.1
1	CA	1035	A	5.1
37	DC	133	PRO	5.1
35	DA	654(U)	A	5.1
35	DA	2157	G	5.1
24	CY	81	ALA	5.1
37	BC	76	ALA	5.1
35	DA	2116	G	5.0
37	BC	69	GLY	5.0
20	AT	106	ALA	5.0
37	DC	193	ILE	5.0
35	DA	2177	C	5.0
37	BC	213	TYR	5.0
22	AW	56	C	5.0
35	DA	654	A	5.0
42	DH	42	ARG	5.0
1	CA	1005	A	5.0
45	BK	4	VAL	4.9
35	DA	2158	A	4.9
37	DC	135	GLY	4.9
39	DE	205	ALA	4.9
35	BA	2139	C	4.9
49	BQ	140	ALA	4.9
22	AW	18	G	4.9
37	DC	64	LEU	4.9
37	DC	153	ILE	4.9

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Mol	Chain	Res	Type	RSRZ
37	DC	24	GLU	4.9
35	BA	2127	G	4.8
49	BQ	141	GLN	4.8
35	DA	2161	C	4.8
35	BA	2155	G	4.8
37	DC	184	LYS	4.8
37	DC	106	GLY	4.8
52	DT	136	GLN	4.8
37	DC	103	ILE	4.8
57	DY	51	VAL	4.7
24	AY	85	GLU	4.7
57	BY	59	GLY	4.7
35	BA	2116	G	4.7
10	AJ	33	GLN	4.7
35	BA	2793	G	4.7
1	CA	1030(D)	A	4.7
37	BC	153	ILE	4.7
37	BC	132	GLY	4.7
37	BC	77	ILE	4.7
1	AA	81	U	4.6
37	DC	102	LYS	4.6
24	CY	79	LEU	4.6
19	CS	81	ARG	4.6
30	D5	58	LEU	4.6
37	BC	36	LYS	4.6
35	BA	2133	G	4.6
37	DC	136	LEU	4.6
35	BA	2111	C	4.5
24	CY	84	ARG	4.5
35	DA	2146	C	4.5
24	AY	89	PRO	4.5
35	DA	654(F)	C	4.5
35	DA	2152	G	4.5
37	DC	70	LYS	4.5
22	AW	62	C	4.5
11	CK	129	SER	4.5
22	AW	54	U	4.5
37	DC	22	ILE	4.5
45	BK	2	LYS	4.5
25	D0	85	ALA	4.4
37	DC	195	ALA	4.4
12	AL	130	LYS	4.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BA	2170	A	4.4
37	DC	134	ARG	4.4
35	BA	2169	A	4.4
37	BC	41	VAL	4.4
35	DA	2162	G	4.3
37	BC	53	ARG	4.3
1	CA	93	G	4.3
35	DA	2160	G	4.3
35	DA	2175	C	4.3
35	DA	654(J)	A	4.3
6	CF	101	ALA	4.3
45	BK	1	MET	4.3
40	DF	12	LEU	4.3
37	DC	52	ARG	4.2
10	AJ	64	GLU	4.2
35	DA	654(R)	C	4.2
35	DA	2108	C	4.2
37	DC	140	PRO	4.2
13	AM	32	GLU	4.2
37	DC	160	ARG	4.2
35	DA	654(V)	A	4.2
1	CA	1030(A)	G	4.2
22	AW	6	G	4.2
10	AJ	73	ASP	4.2
35	BA	2174	C	4.2
24	AY	88	LYS	4.2
35	DA	2145	C	4.1
37	DC	119	VAL	4.1
1	CA	1031	G	4.1
37	DC	143	GLY	4.1
37	DC	215	THR	4.1
24	CY	90	GLU	4.1
42	DH	50	VAL	4.1
35	BA	2115	G	4.1
37	DC	86	ALA	4.1
24	AY	87	LEU	4.1
35	BA	2894	G	4.1
10	AJ	3	LYS	4.1
24	CY	89	PRO	4.1
22	CW	17	C	4.0
1	CA	1001(A)	G	4.0
1	CA	1037	C	4.0

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Mol	Chain	Res	Type	RSRZ
45	DK	11	GLN	4.0
37	BC	186	ALA	4.0
37	BC	72	VAL	4.0
37	BC	194	ARG	4.0
35	DA	2139	C	4.0
22	CW	45	U	4.0
37	DC	20	TYR	4.0
1	AA	1124	G	4.0
37	DC	173	ALA	4.0
37	DC	85	GLU	4.0
37	BC	51	PRO	4.0
37	BC	191	ALA	4.0
42	BH	101	ARG	4.0
35	DA	2804	C	3.9
37	DC	94	VAL	3.9
45	DK	48	MET	3.9
24	CY	34	GLU	3.9
20	AT	8	ARG	3.9
57	DY	59	GLY	3.9
12	AL	129	ALA	3.9
45	BK	27	LEU	3.9
10	AJ	6	ILE	3.9
35	BA	654(I)	C	3.9
37	DC	61	THR	3.9
35	BA	2152	G	3.8
24	AY	91	LEU	3.8
35	DA	1509	C	3.8
35	BA	2120	G	3.8
37	BC	176	GLY	3.8
35	DA	2156	G	3.8
37	BC	185	LEU	3.8
37	BC	86	ALA	3.8
35	DA	2136	C	3.8
37	BC	85	GLU	3.8
9	AI	15	ALA	3.8
11	AK	127	LYS	3.8
10	AJ	37	PRO	3.8
37	DC	60	GLY	3.7
37	BC	130	ILE	3.7
1	AA	1257	U	3.7
24	CY	91	LEU	3.7
12	CL	130	LYS	3.7

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Mol	Chain	Res	Type	RSRZ
35	BA	2147	G	3.7
3	AC	170	GLN	3.7
35	BA	2148	G	3.7
41	BG	25	TYR	3.7
3	AC	146	ALA	3.7
35	BA	2310	A	3.7
1	CA	1026	G	3.7
37	BC	23	ASP	3.7
24	CY	88	LYS	3.7
35	DA	2178	C	3.7
37	BC	24	GLU	3.7
35	BA	2794	C	3.7
24	AY	79	LEU	3.7
37	BC	139	ASN	3.7
45	DK	85	GLU	3.6
27	D2	70	GLN	3.6
52	DT	138	ALA	3.6
11	AK	128	ALA	3.6
22	AW	20	U	3.6
12	AL	128	ALA	3.6
24	CY	85	GLU	3.6
1	CA	1024	G	3.6
37	BC	106	GLY	3.6
37	DC	90	GLY	3.6
35	BA	2803	C	3.6
1	AA	88	A	3.6
37	DC	95	GLY	3.6
35	DA	2164	C	3.5
11	AK	12	ARG	3.5
37	DC	48	GLY	3.5
37	DC	197	GLU	3.5
1	AA	1531	A	3.5
7	AG	156	TRP	3.5
35	DA	888	C	3.5
49	DQ	140	ALA	3.5
37	BC	52	ARG	3.5
37	DC	88	GLU	3.5
45	DK	34	ILE	3.5
35	BA	2158	A	3.5
37	BC	73	ARG	3.5
37	BC	187	ASP	3.5
37	BC	56	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
20	CT	9	ASN	3.5
30	B5	59	GLU	3.5
24	AY	68	ASP	3.5
42	DH	47	GLU	3.5
28	B3	3	ARG	3.5
7	AG	16	LEU	3.5
37	BC	20	TYR	3.5
5	CE	155	GLU	3.5
37	BC	99	ILE	3.5
37	BC	110	PHE	3.5
1	AA	80	G	3.5
52	DT	1	MET	3.5
22	CW	36	A	3.5
52	DT	137	LYS	3.4
37	DC	72	VAL	3.4
22	AW	21	A	3.4
45	DK	86	LYS	3.4
37	DC	162	GLU	3.4
35	BA	2125	G	3.4
37	DC	142	ALA	3.4
35	DA	2109	U	3.4
41	BG	2	PRO	3.4
3	AC	208	ILE	3.4
35	DA	2894	G	3.4
1	AA	90	U	3.4
35	BA	2107	C	3.4
37	DC	155	GLU	3.4
37	BC	103	ILE	3.4
12	CL	129	ALA	3.4
1	AA	204	U	3.4
35	BA	2172	U	3.4
35	DA	2132	U	3.4
37	DC	83	ILE	3.4
35	DA	2165	G	3.4
4	AD	47	ARG	3.4
24	CY	87	LEU	3.4
57	DY	50	ARG	3.4
37	BC	75	LEU	3.4
39	DE	69	LYS	3.3
30	D5	59	GLU	3.3
4	AD	42	GLN	3.3
24	CY	78	GLU	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
11	CK	12	ARG	3.3
29	B4	47	VAL	3.3
35	BA	2180	U	3.3
22	AW	5	G	3.3
37	DC	205	LYS	3.3
37	DC	206	GLY	3.3
22	AW	39	U	3.3
35	DA	2795	G	3.3
37	DC	185	LEU	3.3
37	DC	199	HIS	3.3
28	D3	1	MET	3.3
35	BA	2114	A	3.3
45	BK	29	GLN	3.3
18	CR	88	LYS	3.3
37	DC	93	TYR	3.3
12	CL	126	LYS	3.3
37	DC	182	PRO	3.3
4	AD	43	HIS	3.3
37	BC	179	SER	3.3
39	DE	204	ALA	3.3
22	CW	35	A	3.3
37	BC	26	ALA	3.2
45	BK	30	HIS	3.2
7	AG	79	ARG	3.2
35	BA	2792	G	3.2
48	BP	110	TYR	3.2
37	BC	34	THR	3.2
57	DY	52	SER	3.2
10	AJ	38	ILE	3.2
37	BC	40	THR	3.2
37	BC	188	ASN	3.2
37	DC	145	VAL	3.2
1	AA	202	U	3.2
1	AA	1001	A	3.2
35	BA	275	G	3.2
45	DK	8	VAL	3.2
24	AY	80	PRO	3.2
35	DA	654(Q)	C	3.2
52	BT	93	ARG	3.2
37	BC	83	ILE	3.2
37	BC	154	ARG	3.2
35	BA	2160	G	3.2

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Mol	Chain	Res	Type	RSRZ
10	AJ	74	ILE	3.2
11	AK	129	SER	3.2
37	BC	151	GLU	3.2
35	BA	2801	A	3.1
37	DC	89	ALA	3.2
37	DC	172	HIS	3.1
35	BA	1176	G	3.1
52	BT	1	MET	3.1
24	CY	75	LEU	3.1
37	BC	94	VAL	3.1
42	BH	42	ARG	3.1
37	DC	163	PHE	3.1
24	AY	81	ALA	3.1
45	BK	21	PRO	3.1
35	BA	1046	A	3.1
42	DH	44	VAL	3.1
22	AW	38	A	3.1
1	AA	1002	G	3.1
1	AA	1030(A)	G	3.1
37	DC	105	ASP	3.1
35	BA	2176	A	3.1
7	AG	84	ASN	3.1
35	DA	2159	G	3.1
1	CA	1027	C	3.1
1	CA	1029	C	3.1
52	DT	135	ALA	3.1
35	DA	2182	G	3.1
37	DC	26	ALA	3.0
22	CW	20	U	3.0
57	BY	55	TYR	3.0
1	CA	1025	U	3.0
8	AH	130	GLY	3.0
22	AW	61	C	3.0
9	AI	31	GLN	3.0
35	BA	2165	G	3.0
42	DH	46	GLU	3.0
16	CP	7	ALA	3.0
39	BE	205	ALA	3.0
9	AI	4	TYR	3.0
37	DC	129	ARG	3.0
13	CM	122	LYS	3.0
35	BA	1174	A	3.0

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Mol	Chain	Res	Type	RSRZ
13	CM	84	ILE	3.0
24	AY	66	GLU	3.0
35	BA	271(N)	U	3.0
57	BY	86	ARG	3.0
35	BA	2801(A)	A	3.0
37	DC	101	GLN	3.0
7	CG	155	ARG	3.0
42	DH	97	ARG	3.0
24	CY	82	GLU	3.0
24	CY	74	GLU	3.0
35	DA	2153	G	3.0
37	DC	139	ASN	3.0
8	AH	128	GLY	3.0
2	AB	130	ARG	3.0
35	BA	2154	G	3.0
37	BC	21	THR	3.0
24	AY	86	ALA	2.9
22	CW	34	G	2.9
37	DC	187	ASP	2.9
16	CP	19	ILE	2.9
42	BH	97	ARG	2.9
28	B3	1	MET	2.9
12	CL	128	ALA	2.9
35	BA	2896	C	2.9
1	CA	1002	G	2.9
35	BA	2123	G	2.9
35	BA	2159	G	2.9
43	BI	123	LEU	2.9
22	AW	45	U	2.9
37	BC	22	ILE	2.9
11	AK	13	GLN	2.9
5	CE	154	GLY	2.9
24	AY	71	GLY	2.9
16	AP	84	ALA	2.9
10	AJ	4	ILE	2.9
37	DC	19	VAL	2.9
37	BC	121	GLY	2.9
24	AY	84	ARG	2.9
10	CJ	71	LEU	2.8
35	BA	2804	C	2.8
35	DA	2174	C	2.8
45	DK	37	PHE	2.8

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Mol	Chain	Res	Type	RSRZ
24	AY	43	GLU	2.8
10	AJ	72	VAL	2.8
3	AC	169	ALA	2.8
9	AI	122	ALA	2.8
35	BA	2175	C	2.8
10	CJ	85	LEU	2.8
37	BC	190	ARG	2.8
24	AY	82	GLU	2.8
37	DC	109	ASP	2.8
42	DH	45	VAL	2.8
1	CA	1257	U	2.8
35	DA	2897	U	2.8
38	BD	2	ALA	2.8
4	AD	165	MET	2.8
51	BS	51	ALA	2.8
14	AN	17	LYS	2.8
9	AI	128	ARG	2.8
40	BF	1	MET	2.8
17	CQ	44	ALA	2.8
35	BA	2892	A	2.8
34	D9	22	ARG	2.8
1	AA	1030(B)	C	2.8
35	BA	2108	C	2.8
37	BC	134	ARG	2.8
12	CL	65	GLU	2.8
4	CD	131	ARG	2.8
10	AJ	5	ARG	2.8
37	DC	25	ALA	2.8
51	BS	37	ALA	2.8
60	DI	116	LEU	2.8
24	AY	93	GLU	2.8
41	DG	2	PRO	2.8
19	AS	40	ILE	2.8
45	DK	4	VAL	2.8
1	CA	1023	G	2.8
24	AY	75	LEU	2.7
45	DK	27	LEU	2.7
37	BC	59	ARG	2.7
1	CA	1006	C	2.7
24	CY	69	LEU	2.7
1	CA	1531	A	2.7
37	BC	70	LYS	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DA	2148	G	2.7
1	AA	1000	U	2.7
37	DC	188	ASN	2.7
35	DA	92	A	2.7
35	DA	1744	C	2.7
35	DA	2133	G	2.7
16	CP	32	TYR	2.7
35	BA	2121	G	2.7
35	BA	2162	G	2.7
37	BC	173	ALA	2.7
45	DK	12	LEU	2.7
24	AY	32	ARG	2.7
7	AG	85	TYR	2.7
37	DC	76	ALA	2.7
40	BF	11	VAL	2.7
1	AA	723	U	2.7
37	BC	159	GLY	2.7
37	BC	135	GLY	2.7
42	BH	44	VAL	2.7
2	CB	132	LYS	2.7
9	AI	62	TYR	2.7
37	DC	194	ARG	2.7
10	AJ	75	ILE	2.7
35	DA	2803	C	2.7
22	CW	16	U	2.7
45	DK	93	ARG	2.7
45	DK	52	ILE	2.7
45	DK	92	GLY	2.7
10	AJ	100	THR	2.7
19	CS	43	GLU	2.7
45	DK	89	HIS	2.7
55	DW	113	LYS	2.7
1	CA	84	U	2.6
9	AI	36	TYR	2.6
1	AA	1040	U	2.6
21	AU	2	GLY	2.6
35	DA	2122	U	2.6
37	BC	87	GLU	2.6
24	AY	90	GLU	2.6
27	D2	72	ALA	2.6
22	CV	20	U	2.6
21	AU	3	LYS	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	BC	98	GLU	2.6
37	BC	224	ILE	2.6
37	DC	23	ASP	2.6
29	B4	49	GLU	2.6
10	CJ	4	ILE	2.6
37	BC	129	ARG	2.6
57	BY	87	LYS	2.6
22	AW	64	A	2.6
41	DG	49	ASP	2.6
37	BC	107	TRP	2.6
24	AY	78	GLU	2.6
20	CT	85	MET	2.6
22	AW	47	U	2.6
35	BA	2109	U	2.6
35	BA	2122	U	2.6
1	AA	1452	C	2.6
35	DA	1176	G	2.6
42	DH	48	GLY	2.6
12	CL	127	GLU	2.6
11	CK	127	LYS	2.6
37	DC	154	ARG	2.6
35	DA	2801(A)	A	2.6
37	BC	209	LEU	2.6
3	AC	71	ALA	2.6
2	AB	132	LYS	2.5
42	DH	104	GLU	2.5
48	BP	94	GLU	2.5
9	CI	7	THR	2.5
31	D6	17	LYS	2.5
45	BK	137	GLU	2.5
2	AB	21	ARG	2.5
28	D3	3	ARG	2.5
37	DC	49	ILE	2.5
43	BI	107	VAL	2.5
45	DK	9	LYS	2.5
35	BA	2151	G	2.5
35	BA	2790	A	2.5
13	AM	6	GLY	2.5
7	AG	86	GLN	2.5
37	DC	121	GLY	2.5
2	CB	12	GLU	2.5
35	BA	2178	C	2.5

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Mol	Chain	Res	Type	RSRZ
42	DH	43	VAL	2.5
9	AI	5	TYR	2.5
45	BK	32	ALA	2.5
41	BG	34	LEU	2.5
7	CG	79	ARG	2.5
35	BA	1530	C	2.5
20	AT	9	ASN	2.5
24	CY	76	MET	2.5
45	BK	78	ILE	2.5
57	DY	61	ILE	2.5
58	BZ	6	LYS	2.5
37	BC	100	ILE	2.5
37	DC	65	PRO	2.5
13	AM	7	VAL	2.5
37	DC	84	LYS	2.5
35	BA	92	A	2.5
8	AH	129	VAL	2.5
37	BC	93	TYR	2.5
58	BZ	113	ALA	2.5
22	AW	53	G	2.5
1	AA	1150	U	2.5
48	BP	88	LEU	2.4
37	DC	198	ALA	2.4
34	D9	17	ILE	2.4
45	BK	84	LEU	2.4
55	BW	2	GLU	2.4
17	AQ	75	ARG	2.4
17	AQ	58	GLU	2.4
16	CP	35	LYS	2.4
11	CK	126	ARG	2.4
35	BA	2106	G	2.4
35	DA	2895	U	2.4
10	AJ	71	LEU	2.4
24	CY	83	GLU	2.4
1	CA	485	G	2.4
37	BC	78	ALA	2.4
37	BC	150	GLY	2.4
45	DK	120	LEU	2.4
1	CA	90	U	2.4
5	AE	11	ILE	2.4
45	DK	49	GLY	2.4
21	AU	26	LYS	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	DQ	141	GLN	2.4
9	AI	3	GLN	2.4
35	BA	2161	C	2.4
41	BG	82	LEU	2.4
51	BS	73	LEU	2.4
31	B6	44	ARG	2.4
1	CA	1001	A	2.4
37	DC	77	ILE	2.4
9	CI	8	GLY	2.4
35	DA	275	G	2.4
35	DA	2147	G	2.4
24	AY	77	GLU	2.4
42	BH	95	ARG	2.4
35	BA	2126	A	2.4
37	DC	58	VAL	2.4
37	DC	127	LEU	2.4
35	DA	2183	C	2.4
35	DA	2794	C	2.4
37	DC	181	PRO	2.4
40	DF	1	MET	2.4
35	BA	2153	G	2.4
35	DA	2151	G	2.4
16	AP	39	TYR	2.4
40	DF	24	LEU	2.4
11	AK	11	LYS	2.4
6	AF	89	MET	2.3
27	B2	72	ALA	2.3
45	BK	93	ARG	2.3
37	BC	25	ALA	2.3
45	BK	6	ALA	2.3
48	BP	105	LEU	2.3
11	AK	77	MET	2.3
37	BC	217	THR	2.3
55	BW	1	MET	2.3
9	CI	4	TYR	2.3
37	DC	59	ARG	2.3
42	BH	57	ASP	2.3
12	AL	28	LYS	2.3
19	CS	21	GLU	2.3
22	AW	63	G	2.3
58	BZ	7	ALA	2.3
57	BY	91	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
24	AY	70	GLN	2.3
45	BK	97	GLY	2.3
1	CA	216	G	2.3
40	DF	11	VAL	2.3
10	CJ	84	GLN	2.3
37	DC	120	MET	2.3
2	CB	135	GLN	2.3
35	DA	2179	C	2.3
24	AY	65	LEU	2.3
2	CB	130	ARG	2.3
3	AC	149	ALA	2.3
58	BZ	62	PRO	2.3
22	AW	16	U	2.3
26	D1	85	LEU	2.3
7	AG	62	PHE	2.3
37	DC	161	ILE	2.3
48	DP	150	ALA	2.3
16	CP	34	GLU	2.3
32	B7	47	ARG	2.3
45	DK	17	ALA	2.3
9	AI	125	TYR	2.3
26	B1	85	LEU	2.2
54	DV	48	GLY	2.2
2	AB	128	GLU	2.2
42	DH	51	ARG	2.2
45	DK	7	VAL	2.2
45	BK	120	LEU	2.2
2	AB	68	ILE	2.2
1	AA	1286	A	2.2
35	DA	2310	A	2.2
37	BC	58	VAL	2.2
1	CA	1039	C	2.2
37	BC	84	LYS	2.2
45	DK	76	TYR	2.2
42	DH	158	HIS	2.2
37	BC	195	ALA	2.2
45	DK	50	ASP	2.2
37	BC	182	PRO	2.2
37	DC	158	ALA	2.2
16	AP	35	LYS	2.2
31	B6	13	CYS	2.2
45	BK	5	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
9	AI	92	TYR	2.2
19	CS	31	ILE	2.2
42	BH	100	GLY	2.2
42	BH	116	GLU	2.2
10	AJ	25	GLU	2.2
24	AY	83	GLU	2.2
37	DC	179	SER	2.2
24	AY	64	SER	2.2
18	AR	34	TYR	2.2
37	BC	80	GLY	2.2
37	BC	74	VAL	2.2
1	CA	1030	C	2.2
24	CY	77	GLU	2.2
3	AC	172	ARG	2.2
5	AE	31	LEU	2.2
6	CF	1	MET	2.2
24	CY	102	TYR	2.2
4	AD	156	GLU	2.2
11	CK	13	GLN	2.2
1	CA	1034	G	2.2
23	AX	17	A	2.2
37	DC	98	GLU	2.2
7	AG	53	LYS	2.2
37	BC	180	PHE	2.2
39	BE	54	GLN	2.2
42	DH	33	LEU	2.2
53	DU	118	GLY	2.2
24	CY	86	ALA	2.1
42	BH	96	ALA	2.1
11	CK	11	LYS	2.1
20	CT	8	ARG	2.1
1	AA	1036	G	2.1
1	CA	1003	G	2.1
18	CR	31	LEU	2.1
22	AW	15	G	2.1
37	BC	131	LEU	2.1
60	DI	107	ILE	2.1
35	DA	2138	C	2.1
40	DF	18	ARG	2.1
9	AI	82	ALA	2.1
7	CG	156	TRP	2.1
15	AO	26	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
9	AI	16	ARG	2.1
37	BC	184	LYS	2.1
2	AB	129	GLU	2.1
35	DA	2134	A	2.1
43	BI	108	THR	2.1
42	DH	100	GLY	2.1
17	AQ	57	VAL	2.1
9	AI	30	GLY	2.1
9	CI	47	LEU	2.1
37	DC	148	ASN	2.1
12	CL	28	LYS	2.1
41	DG	182	LYS	2.1
1	AA	1125	U	2.1
42	BH	36	PRO	2.1
15	CO	20	GLY	2.1
37	DC	75	LEU	2.1
24	AY	46	ARG	2.1
39	DE	72	VAL	2.1
21	AU	14	TRP	2.1
37	DC	81	GLU	2.1
52	DT	36	GLU	2.1
4	AD	203	VAL	2.1
21	AU	18	TYR	2.1
7	AG	115	ARG	2.1
18	CR	28	GLU	2.1
2	CB	118	LEU	2.1
35	DA	1547	C	2.1
35	DA	2185	C	2.1
37	DC	165	ASN	2.1
52	DT	39	ARG	2.1
37	BC	172	HIS	2.1
22	AW	48	C	2.1
1	CA	412	A	2.1
37	DC	110	PHE	2.1
37	DC	150	GLY	2.1
21	AU	24	ARG	2.1
22	CW	57	G	2.1
2	AB	240	GLN	2.1
4	AD	45	GLN	2.1
37	DC	159	GLY	2.1
24	AY	94	ALA	2.1
45	DK	30	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
10	AJ	7	LYS	2.1
17	CQ	11	VAL	2.1
13	AM	96	LEU	2.1
35	BA	2177	C	2.1
10	CJ	29	ARG	2.1
4	AD	124	GLY	2.0
1	CA	79	G	2.0
4	AD	125	HIS	2.0
37	DC	92	ASP	2.0
37	BC	37	PHE	2.0
42	BH	25	LYS	2.0
9	AI	66	ARG	2.0
16	CP	18	ARG	2.0
29	B4	55	PRO	2.0
42	DH	95	ARG	2.0
45	BK	10	LEU	2.0
35	BA	2105	C	2.0
42	DH	114	VAL	2.0
48	DP	121	LYS	2.0
57	BY	88	LYS	2.0
45	BK	136	VAL	2.0
20	CT	48	LYS	2.0
24	AY	219	GLU	2.0
13	AM	114	ARG	2.0
37	BC	181	PRO	2.0
4	AD	38	TYR	2.0
48	DP	110	TYR	2.0
19	AS	75	ALA	2.0
42	BH	18	GLU	2.0
37	DC	147	PHE	2.0
20	CT	45	GLN	2.0
13	AM	31	LYS	2.0
37	BC	18	LYS	2.0
37	DC	82	LYS	2.0
37	DC	151	GLU	2.0
37	DC	210	ARG	2.0
16	AP	36	ILE	2.0
37	DC	186	ALA	2.0
42	BH	114	VAL	2.0
41	BG	21	ARG	2.0

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

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

## 6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 6.4 Ligands ⓘ

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
61	MG	BA	3277	1/1	0.73	-	57,57,57,57	0
61	MG	BA	3159	1/1	0.32	-	55,55,55,55	0
61	MG	DA	3022	1/1	0.23	-	47,47,47,47	0
61	MG	BA	3291	1/1	0.38	-	54,54,54,54	0
61	MG	AA	1754	1/1	0.22	-	55,55,55,55	0
61	MG	DA	3048	1/1	0.27	-	47,47,47,47	0
61	MG	BA	3057	1/1	0.51	-	47,47,47,47	0
61	MG	BA	3308	1/1	0.54	-	55,55,55,55	0
61	MG	BA	3184	1/1	0.46	-	47,47,47,47	0
61	MG	BA	3102	1/1	0.73	-	47,47,47,47	0
61	MG	BB	201	1/1	0.57	-	67,67,67,67	0
61	MG	BA	3330	1/1	0.22	-	55,55,55,55	0
61	MG	BA	3115	1/1	0.54	-	50,50,50,50	0
61	MG	AA	1737	1/1	0.60	-	55,55,55,55	0
61	MG	AA	1675	1/1	0.16	-	48,48,48,48	0
61	MG	AA	1621	1/1	0.23	-	56,56,56,56	0
61	MG	CA	1707	1/1	0.55	-	51,51,51,51	0
61	MG	BA	3130	1/1	0.12	-	48,48,48,48	0
61	MG	BA	3068	1/1	0.50	-	47,47,47,47	0
61	MG	CA	1630	1/1	0.27	-	47,47,47,47	0
61	MG	BA	3163	1/1	0.35	-	53,53,53,53	0
61	MG	DA	3320	1/1	0.19	-	55,55,55,55	0
62	ZN	CD	301	1/1	0.27	-	52,52,52,52	0
61	MG	BA	3351	1/1	0.49	-	55,55,55,55	0
61	MG	CA	1644	1/1	0.14	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3005	1/1	0.75	-	47,47,47,47	0
61	MG	BA	3107	1/1	0.34	-	51,51,51,51	0
61	MG	AA	1753	1/1	0.51	-	55,55,55,55	1
61	MG	AA	1724	1/1	0.53	-	59,59,59,59	0
61	MG	BA	3193	1/1	0.28	-	53,53,53,53	0
61	MG	BA	3091	1/1	0.37	-	51,51,51,51	0
61	MG	BA	3229	1/1	0.16	-	49,49,49,49	0
61	MG	DA	3192	1/1	0.19	-	61,61,61,61	1
61	MG	DA	3106	1/1	0.38	-	47,47,47,47	0
61	MG	DA	3063	1/1	0.54	-	47,47,47,47	0
61	MG	DA	3201	1/1	0.44	-	60,60,60,60	0
61	MG	AA	1605	1/1	0.11	-	50,50,50,50	0
61	MG	AA	1747	1/1	0.37	-	55,55,55,55	1
61	MG	BA	3149	1/1	0.49	-	54,54,54,54	0
61	MG	BA	3249	1/1	0.43	-	56,56,56,56	0
61	MG	DA	3274	1/1	0.48	-	63,63,63,63	0
61	MG	DA	3341	1/1	0.47	-	55,55,55,55	0
61	MG	BA	3025	1/1	0.46	-	55,55,55,55	0
61	MG	DA	3124	1/1	0.48	-	53,53,53,53	0
61	MG	CA	1750	1/1	0.21	-	55,55,55,55	0
61	MG	BA	3279	1/1	0.18	-	55,55,55,55	0
61	MG	CA	1714	1/1	0.47	-	64,64,64,64	0
61	MG	DA	3280	1/1	0.59	-	57,57,57,57	0
61	MG	AA	1728	1/1	0.15	-	55,55,55,55	0
61	MG	CA	1628	1/1	0.31	-	56,56,56,56	0
61	MG	BA	3098	1/1	0.25	-	54,54,54,54	0
61	MG	AV	105	1/1	0.21	-	50,50,50,50	1
61	MG	DA	3094	1/1	0.45	-	51,51,51,51	0
61	MG	BA	3349	1/1	0.47	-	55,55,55,55	0
61	MG	BA	3144	1/1	0.47	-	49,49,49,49	0
61	MG	AA	1743	1/1	0.53	-	55,55,55,55	0
62	ZN	B9	101	1/1	0.06	-	55,55,55,55	0
61	MG	BA	3240	1/1	0.67	-	58,58,58,58	1
61	MG	CA	1738	1/1	0.92	-	55,55,55,55	0
61	MG	DA	3282	1/1	0.34	-	57,57,57,57	0
61	MG	BA	3287	1/1	0.38	-	51,51,51,51	0
61	MG	DA	3131	1/1	0.20	-	48,48,48,48	0
61	MG	DA	3088	1/1	0.41	-	49,49,49,49	0
61	MG	DA	3115	1/1	0.24	-	48,48,48,48	0
61	MG	DA	3163	1/1	0.67	-	50,50,50,50	0
61	MG	AA	1646	1/1	0.74	-	50,50,50,50	0
61	MG	DA	3172	1/1	0.50	-	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	CA	1657	1/1	0.31	-	54,54,54,54	0
61	MG	BA	3200	1/1	0.29	-	60,60,60,60	0
61	MG	DA	3014	1/1	0.33	-	47,47,47,47	0
61	MG	AA	1677	1/1	0.27	-	55,55,55,55	1
61	MG	BA	3079	1/1	0.44	-	49,49,49,49	0
61	MG	BA	3353	1/1	0.51	-	55,55,55,55	0
61	MG	DA	3344	1/1	0.49	-	55,55,55,55	0
61	MG	CA	1621	1/1	0.19	-	48,48,48,48	0
61	MG	DH	201	1/1	0.13	-	50,50,50,50	0
61	MG	DA	3179	1/1	0.90	-	47,47,47,47	0
61	MG	BA	3095	1/1	0.59	-	60,60,60,60	0
61	MG	BA	3289	1/1	0.38	-	54,54,54,54	0
61	MG	AA	1610	1/1	0.32	-	55,55,55,55	0
61	MG	AA	1653	1/1	0.92	-	60,60,60,60	0
61	MG	DA	3217	1/1	0.15	-	49,49,49,49	0
61	MG	CA	1730	1/1	0.33	-	55,55,55,55	0
61	MG	BA	3350	1/1	0.32	-	55,55,55,55	0
61	MG	BA	3165	1/1	0.72	-	47,47,47,47	0
61	MG	AA	1680	1/1	0.42	-	49,49,49,49	0
61	MG	BA	3093	1/1	0.42	-	51,51,51,51	0
61	MG	DA	3092	1/1	0.48	-	51,51,51,51	1
61	MG	DA	3216	1/1	0.54	-	60,60,60,60	0
61	MG	BA	3315	1/1	0.41	-	55,55,55,55	1
61	MG	BA	3074	1/1	0.41	-	47,47,47,47	0
61	MG	DA	3194	1/1	0.46	-	53,53,53,53	0
61	MG	BA	3033	1/1	0.53	-	47,47,47,47	0
61	MG	BA	3276	1/1	0.48	-	58,58,58,58	0
61	MG	DA	3155	1/1	0.44	-	48,48,48,48	0
61	MG	AA	1670	1/1	0.32	-	69,69,69,69	0
61	MG	CV	107	1/1	0.28	-	54,54,54,54	0
61	MG	BD	301	1/1	0.47	-	47,47,47,47	0
61	MG	BA	3203	1/1	0.38	-	52,52,52,52	0
61	MG	AA	1748	1/1	0.39	-	55,55,55,55	0
61	MG	DA	3073	1/1	0.63	-	53,53,53,53	0
61	MG	AA	1710	1/1	0.12	-	55,55,55,55	0
61	MG	CN	101	1/1	0.37	-	55,55,55,55	0
61	MG	DA	3305	1/1	0.23	-	55,55,55,55	0
61	MG	CA	1680	1/1	0.33	-	49,49,49,49	0
61	MG	BA	3040	1/1	0.63	-	47,47,47,47	0
61	MG	BA	3014	1/1	0.55	-	53,53,53,53	0
61	MG	BA	3313	1/1	0.19	-	55,55,55,55	0
61	MG	DA	3054	1/1	0.34	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3120	1/1	0.64	-	50,50,50,50	0
61	MG	DA	3139	1/1	0.66	-	50,50,50,50	0
61	MG	CA	1633	1/1	0.91	-	52,52,52,52	0
61	MG	BA	3123	1/1	0.66	-	53,53,53,53	0
61	MG	BA	3046	1/1	0.44	-	47,47,47,47	0
61	MG	DA	3316	1/1	0.49	-	55,55,55,55	0
61	MG	DA	3348	1/1	0.33	-	55,55,55,55	0
61	MG	CA	1670	1/1	0.83	-	69,69,69,69	0
61	MG	DA	3099	1/1	0.35	-	54,54,54,54	0
61	MG	BA	3322	1/1	0.37	-	55,55,55,55	0
61	MG	BA	3250	1/1	0.44	-	52,52,52,52	0
61	MG	DA	3089	1/1	0.61	-	48,48,48,48	0
61	MG	BA	3212	1/1	0.50	-	55,55,55,55	0
61	MG	AA	1617	1/1	0.16	-	54,54,54,54	0
61	MG	DA	3039	1/1	0.38	-	51,51,51,51	0
61	MG	AA	1604	1/1	0.35	-	61,61,61,61	0
61	MG	BA	3109	1/1	0.36	-	48,48,48,48	0
61	MG	BA	3226	1/1	0.46	-	56,56,56,56	0
61	MG	AW	104	1/1	0.13	-	56,56,56,56	0
61	MG	DA	3247	1/1	0.32	-	55,55,55,55	1
61	MG	AA	1691	1/1	0.48	-	59,59,59,59	0
61	MG	DA	3278	1/1	0.64	-	51,51,51,51	0
61	MG	DA	3245	1/1	0.55	-	53,53,53,53	0
61	MG	BA	3142	1/1	0.40	-	47,47,47,47	0
61	MG	CA	1675	1/1	0.19	-	48,48,48,48	1
61	MG	DA	3196	1/1	0.38	-	52,52,52,52	0
61	MG	B5	102	1/1	0.58	-	53,53,53,53	0
61	MG	DA	3312	1/1	0.18	-	55,55,55,55	0
61	MG	AA	1707	1/1	0.48	-	49,49,49,49	0
61	MG	DA	3347	1/1	0.25	-	55,55,55,55	0
61	MG	CA	1606	1/1	0.31	-	58,58,58,58	0
61	MG	DA	3288	1/1	0.20	-	66,66,66,66	0
61	MG	DA	3260	1/1	0.51	-	59,59,59,59	0
61	MG	BA	3230	1/1	0.77	-	54,54,54,54	0
61	MG	CA	1735	1/1	0.13	-	55,55,55,55	1
61	MG	AV	104	1/1	0.11	-	54,54,54,54	0
61	MG	DA	3240	1/1	0.79	-	55,55,55,55	1
61	MG	AA	1642	1/1	0.32	-	55,55,55,55	0
61	MG	BA	3056	1/1	0.67	-	47,47,47,47	0
61	MG	BA	3267	1/1	0.25	-	54,54,54,54	0
61	MG	BA	3060	1/1	0.58	-	47,47,47,47	0
61	MG	CY	401	1/1	0.55	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3195	1/1	0.42	-	52,52,52,52	0
61	MG	DA	3145	1/1	0.39	-	49,49,49,49	0
61	MG	AA	1671	1/1	0.34	-	47,47,47,47	0
61	MG	AA	1726	1/1	0.24	-	56,56,56,56	0
61	MG	DA	3044	1/1	0.53	-	47,47,47,47	0
61	MG	CA	1663	1/1	0.24	-	51,51,51,51	0
61	MG	BA	3302	1/1	0.65	-	55,55,55,55	0
61	MG	DA	3040	1/1	0.33	-	68,68,68,68	0
61	MG	BA	3087	1/1	0.31	-	49,49,49,49	0
61	MG	BA	3225	1/1	0.36	-	51,51,51,51	0
61	MG	BA	3019	1/1	0.54	-	47,47,47,47	0
61	MG	BA	3157	1/1	0.15	-	53,53,53,53	0
61	MG	DA	3161	1/1	0.34	-	47,47,47,47	0
61	MG	BA	3222	1/1	0.28	-	49,49,49,49	0
61	MG	CA	1643	1/1	0.59	-	49,49,49,49	0
61	MG	DA	3125	1/1	0.23	-	49,49,49,49	0
61	MG	DA	3269	1/1	0.51	-	52,52,52,52	0
61	MG	BA	3009	1/1	0.64	-	47,47,47,47	0
61	MG	AA	1656	1/1	0.67	-	47,47,47,47	0
61	MG	CA	1614	1/1	0.82	-	53,53,53,53	0
61	MG	DA	3083	1/1	0.30	-	51,51,51,51	0
61	MG	CA	1696	1/1	0.13	-	62,62,62,62	0
61	MG	BA	3072	1/1	0.73	-	53,53,53,53	0
61	MG	DA	3006	1/1	0.81	-	47,47,47,47	0
61	MG	AA	1633	1/1	0.13	-	55,55,55,55	0
61	MG	BA	3312	1/1	0.74	-	55,55,55,55	0
61	MG	DA	3034	1/1	0.54	-	47,47,47,47	0
61	MG	CA	1722	1/1	0.38	-	55,55,55,55	0
61	MG	BA	3205	1/1	0.17	-	50,50,50,50	0
61	MG	BA	3032	1/1	0.19	-	53,53,53,53	0
61	MG	BA	3238	1/1	0.10	-	55,55,55,55	1
61	MG	BD	302	1/1	0.58	-	47,47,47,47	0
61	MG	AA	1732	1/1	0.51	-	55,55,55,55	0
61	MG	AA	1607	1/1	0.47	-	58,58,58,58	0
61	MG	BA	3343	1/1	0.53	-	55,55,55,55	0
61	MG	CL	201	1/1	0.56	-	51,51,51,51	1
61	MG	CA	1683	1/1	0.28	-	47,47,47,47	0
61	MG	BA	3331	1/1	0.26	-	55,55,55,55	0
61	MG	AA	1676	1/1	0.32	-	58,58,58,58	0
61	MG	BA	3306	1/1	0.19	-	55,55,55,55	0
61	MG	DA	3221	1/1	0.56	-	54,54,54,54	0
61	MG	AA	1660	1/1	0.12	-	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3228	1/1	0.38	-	55,55,55,55	0
61	MG	CA	1639	1/1	0.29	-	48,48,48,48	0
61	MG	AA	1622	1/1	0.24	-	48,48,48,48	0
61	MG	AA	1740	1/1	0.32	-	55,55,55,55	0
61	MG	AA	1719	1/1	0.15	-	56,56,56,56	0
61	MG	CA	1692	1/1	0.48	-	59,59,59,59	0
61	MG	DA	3010	1/1	0.65	-	47,47,47,47	0
61	MG	BA	3171	1/1	0.18	-	58,58,58,58	0
61	MG	DA	3338	1/1	0.71	-	55,55,55,55	0
61	MG	AA	1729	1/1	0.25	-	55,55,55,55	0
61	MG	DA	3154	1/1	0.26	-	53,53,53,53	0
61	MG	CA	1648	1/1	0.30	-	53,53,53,53	1
61	MG	AA	1751	1/1	0.09	-	55,55,55,55	0
61	MG	CA	1753	1/1	1.00	-	55,55,55,55	1
61	MG	AA	1648	1/1	0.13	-	62,62,62,62	0
61	MG	BA	3332	1/1	0.09	-	55,55,55,55	0
61	MG	CV	102	1/1	0.38	-	54,54,54,54	0
61	MG	BA	3036	1/1	0.23	-	53,53,53,53	0
61	MG	CA	1646	1/1	0.39	-	62,62,62,62	0
61	MG	AL	201	1/1	0.28	-	51,51,51,51	1
61	MG	DA	3009	1/1	0.57	-	55,55,55,55	0
61	MG	BA	3006	1/1	0.84	-	53,53,53,53	0
61	MG	DA	3129	1/1	0.19	-	50,50,50,50	0
61	MG	BA	3280	1/1	0.44	-	57,57,57,57	0
61	MG	BA	3156	1/1	0.51	-	48,48,48,48	0
61	MG	DA	3193	1/1	0.40	-	65,65,65,65	0
61	MG	AV	102	1/1	0.27	-	54,54,54,54	0
61	MG	DA	3195	1/1	0.26	-	53,53,53,53	0
61	MG	DA	3128	1/1	0.30	-	56,56,56,56	0
61	MG	B7	101	1/1	0.49	-	49,49,49,49	0
61	MG	CA	1754	1/1	0.24	-	55,55,55,55	0
61	MG	CW	103	1/1	0.34	-	54,54,54,54	1
61	MG	CA	1659	1/1	0.25	-	57,57,57,57	0
61	MG	CA	1705	1/1	0.47	-	49,49,49,49	1
61	MG	BA	3208	1/1	0.43	-	51,51,51,51	0
61	MG	DA	3103	1/1	0.47	-	47,47,47,47	0
61	MG	BA	3253	1/1	0.50	-	54,54,54,54	0
61	MG	DA	3058	1/1	0.65	-	47,47,47,47	0
61	MG	CW	104	1/1	0.33	-	56,56,56,56	0
61	MG	DA	3169	1/1	0.41	-	47,47,47,47	0
61	MG	CA	1661	1/1	0.57	-	52,52,52,52	0
61	MG	BA	3047	1/1	0.30	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3119	1/1	0.52	-	49,49,49,49	0
61	MG	BA	3164	1/1	0.24	-	47,47,47,47	0
61	MG	CV	106	1/1	0.15	-	57,57,57,57	1
61	MG	AA	1609	1/1	0.28	-	52,52,52,52	0
61	MG	CA	1634	1/1	0.19	-	47,47,47,47	0
61	MG	BA	3295	1/1	0.18	-	49,49,49,49	0
61	MG	DA	3104	1/1	0.41	-	50,50,50,50	0
61	MG	BA	3223	1/1	0.36	-	52,52,52,52	0
61	MG	BA	3255	1/1	0.22	-	55,55,55,55	0
61	MG	DA	3175	1/1	0.45	-	56,56,56,56	0
61	MG	AA	1745	1/1	0.63	-	55,55,55,55	0
61	MG	BA	3293	1/1	0.46	-	55,55,55,55	1
61	MG	DA	3001	1/1	0.34	-	57,57,57,57	0
61	MG	AA	1650	1/1	0.48	-	47,47,47,47	0
61	MG	BA	3298	1/1	0.44	-	55,55,55,55	0
61	MG	DC	301	1/1	0.65	-	52,52,52,52	1
61	MG	DA	3126	1/1	0.77	-	47,47,47,47	0
61	MG	BA	3125	1/1	0.66	-	47,47,47,47	0
61	MG	BA	3070	1/1	0.41	-	50,50,50,50	0
61	MG	DA	3110	1/1	0.28	-	48,48,48,48	0
61	MG	CA	1651	1/1	0.39	-	47,47,47,47	0
61	MG	DA	3186	1/1	0.53	-	50,50,50,50	0
61	MG	CA	1629	1/1	0.49	-	51,51,51,51	0
61	MG	BA	3094	1/1	0.60	-	47,47,47,47	0
61	MG	DA	3329	1/1	0.31	-	55,55,55,55	0
61	MG	BA	3317	1/1	0.58	-	55,55,55,55	0
61	MG	DF	302	1/1	0.23	-	53,53,53,53	0
61	MG	BA	3214	1/1	0.30	-	48,48,48,48	0
61	MG	CA	1743	1/1	0.20	-	55,55,55,55	0
61	MG	D7	101	1/1	0.39	-	54,54,54,54	0
61	MG	AA	1735	1/1	0.60	-	55,55,55,55	0
61	MG	DA	3162	1/1	0.33	-	47,47,47,47	0
61	MG	AA	1713	1/1	0.16	-	64,64,64,64	0
61	MG	DA	3225	1/1	0.89	-	51,51,51,51	0
61	MG	CA	1708	1/1	0.25	-	49,49,49,49	0
61	MG	DB	201	1/1	0.95	-	67,67,67,67	0
61	MG	BA	3188	1/1	0.39	-	57,57,57,57	0
61	MG	DA	3137	1/1	0.64	-	50,50,50,50	0
61	MG	DA	3276	1/1	0.79	-	58,58,58,58	0
61	MG	BA	3269	1/1	0.53	-	52,52,52,52	0
61	MG	DA	3302	1/1	0.49	-	55,55,55,55	0
61	MG	BA	3143	1/1	0.29	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	CA	1620	1/1	0.21	-	56,56,56,56	0
61	MG	DA	3349	1/1	0.56	-	55,55,55,55	0
61	MG	CA	1740	1/1	0.32	-	55,55,55,55	0
61	MG	DA	3160	1/1	0.32	-	55,55,55,55	0
61	MG	CA	1728	1/1	0.51	-	55,55,55,55	0
61	MG	AA	1665	1/1	0.68	-	50,50,50,50	0
61	MG	DA	3230	1/1	0.10	-	49,49,49,49	0
61	MG	DA	3353	1/1	0.63	-	55,55,55,55	0
61	MG	DA	3350	1/1	0.42	-	55,55,55,55	0
61	MG	AA	1699	1/1	0.52	-	54,54,54,54	1
61	MG	DA	3237	1/1	0.81	-	60,60,60,60	0
61	MG	CA	1686	1/1	0.39	-	57,57,57,57	0
61	MG	DA	3076	1/1	0.37	-	47,47,47,47	0
61	MG	BA	3077	1/1	0.53	-	51,51,51,51	0
61	MG	AA	1681	1/1	0.26	-	66,66,66,66	0
61	MG	BA	3352	1/1	0.33	-	55,55,55,55	0
61	MG	CA	1610	1/1	0.59	-	48,48,48,48	0
61	MG	DA	3166	1/1	0.67	-	47,47,47,47	0
61	MG	AV	107	1/1	0.64	-	54,54,54,54	1
61	MG	BA	3310	1/1	0.23	-	55,55,55,55	0
61	MG	DA	3198	1/1	0.53	-	58,58,58,58	0
61	MG	DA	3265	1/1	0.60	-	53,53,53,53	0
61	MG	DA	3272	1/1	0.41	-	59,59,59,59	1
61	MG	AA	1643	1/1	0.18	-	56,56,56,56	0
61	MG	BA	3134	1/1	0.25	-	54,54,54,54	0
61	MG	DA	3012	1/1	0.30	-	47,47,47,47	0
61	MG	DA	3017	1/1	0.67	-	47,47,47,47	0
61	MG	BB	202	1/1	0.44	-	55,55,55,55	0
61	MG	DA	3147	1/1	0.40	-	47,47,47,47	0
61	MG	AA	1683	1/1	0.48	-	47,47,47,47	0
61	MG	CA	1632	1/1	0.12	-	55,55,55,55	0
61	MG	BA	3209	1/1	0.51	-	66,66,66,66	0
61	MG	DA	3239	1/1	0.22	-	67,67,67,67	1
61	MG	DA	3168	1/1	0.18	-	53,53,53,53	0
61	MG	DA	3263	1/1	0.43	-	63,63,63,63	0
61	MG	AA	1688	1/1	0.47	-	63,63,63,63	1
62	ZN	AD	301	1/1	0.21	-	52,52,52,52	0
61	MG	AA	1632	1/1	0.58	-	53,53,53,53	0
61	MG	BA	3168	1/1	0.37	-	47,47,47,47	0
61	MG	DA	3109	1/1	0.38	-	52,52,52,52	0
61	MG	BA	3172	1/1	0.34	-	52,52,52,52	0
61	MG	BA	3320	1/1	0.42	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3016	1/1	0.55	-	47,47,47,47	0
61	MG	AW	102	1/1	0.13	-	60,60,60,60	1
61	MG	DA	3187	1/1	0.53	-	51,51,51,51	0
61	MG	BA	3345	1/1	0.24	-	55,55,55,55	0
61	MG	BA	3261	1/1	0.51	-	52,52,52,52	0
61	MG	DA	3208	1/1	0.24	-	60,60,60,60	0
61	MG	DA	3120	1/1	0.88	-	49,49,49,49	0
61	MG	DA	3215	1/1	0.47	-	48,48,48,48	0
61	MG	DA	3146	1/1	0.44	-	47,47,47,47	0
61	MG	D1	101	1/1	0.35	-	55,55,55,55	0
61	MG	DA	3273	1/1	0.29	-	58,58,58,58	0
61	MG	DA	3050	1/1	0.53	-	47,47,47,47	0
61	MG	BA	3236	1/1	0.12	-	47,47,47,47	0
61	MG	BA	3007	1/1	0.48	-	52,52,52,52	0
61	MG	BA	3177	1/1	0.85	-	47,47,47,47	0
61	MG	BA	3086	1/1	0.48	-	48,48,48,48	0
61	MG	BC	301	1/1	0.49	-	52,52,52,52	1
61	MG	AA	1612	1/1	0.12	-	52,52,52,52	0
61	MG	BA	3339	1/1	0.24	-	55,55,55,55	0
61	MG	DA	3255	1/1	0.44	-	60,60,60,60	0
61	MG	DA	3059	1/1	0.77	-	55,55,55,55	0
61	MG	CA	1622	1/1	0.85	-	57,57,57,57	0
61	MG	AA	1654	1/1	0.16	-	53,53,53,53	0
61	MG	BA	3128	1/1	0.23	-	50,50,50,50	0
61	MG	AA	1694	1/1	0.21	-	56,56,56,56	0
61	MG	BA	3081	1/1	0.36	-	47,47,47,47	0
61	MG	DA	3135	1/1	0.52	-	54,54,54,54	0
61	MG	DB	204	1/1	0.27	-	55,55,55,55	0
61	MG	BA	3246	1/1	0.40	-	55,55,55,55	0
61	MG	AA	1725	1/1	1.03	-	54,54,54,54	0
61	MG	DA	3286	1/1	0.23	-	60,60,60,60	0
61	MG	DA	3295	1/1	0.74	-	55,55,55,55	0
61	MG	BA	3035	1/1	0.34	-	55,55,55,55	0
61	MG	DA	3085	1/1	0.43	-	47,47,47,47	0
61	MG	DA	3299	1/1	0.36	-	55,55,55,55	0
61	MG	BA	3034	1/1	0.37	-	50,50,50,50	0
61	MG	DA	3308	1/1	0.14	-	55,55,55,55	0
61	MG	DA	3123	1/1	0.23	-	64,64,64,64	1
61	MG	AV	101	1/1	0.40	-	49,49,49,49	0
61	MG	AA	1673	1/1	0.12	-	52,52,52,52	0
61	MG	AA	1734	1/1	0.16	-	55,55,55,55	0
61	MG	DA	3020	1/1	0.58	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	CA	1625	1/1	0.60	-	53,53,53,53	0
61	MG	BA	3266	1/1	0.56	-	59,59,59,59	0
61	MG	BA	3085	1/1	0.18	-	47,47,47,47	0
61	MG	CW	102	1/1	0.18	-	60,60,60,60	0
61	MG	DA	3084	1/1	0.35	-	47,47,47,47	0
61	MG	DA	3256	1/1	0.55	-	55,55,55,55	0
61	MG	DA	3148	1/1	0.36	-	51,51,51,51	0
61	MG	DA	3136	1/1	0.91	-	58,58,58,58	0
61	MG	BA	3160	1/1	0.32	-	47,47,47,47	0
61	MG	BA	3305	1/1	0.73	-	55,55,55,55	0
61	MG	BA	3354	1/1	0.24	-	55,55,55,55	0
61	MG	DA	3070	1/1	0.34	-	48,48,48,48	0
61	MG	BA	3282	1/1	0.46	-	57,57,57,57	0
61	MG	CA	1712	1/1	0.53	-	47,47,47,47	0
61	MG	AA	1742	1/1	0.31	-	55,55,55,55	0
61	MG	DY	201	1/1	0.29	-	55,55,55,55	0
61	MG	DA	3108	1/1	0.19	-	51,51,51,51	0
61	MG	CA	1605	1/1	0.61	-	59,59,59,59	0
61	MG	DA	3055	1/1	0.64	-	47,47,47,47	0
61	MG	BA	3183	1/1	0.58	-	56,56,56,56	0
61	MG	BA	3294	1/1	0.12	-	52,52,52,52	0
61	MG	BA	3219	1/1	0.87	-	49,49,49,49	0
61	MG	AA	1718	1/1	0.24	-	55,55,55,55	0
61	MG	BA	3262	1/1	0.18	-	63,63,63,63	1
61	MG	AA	1666	1/1	0.71	-	57,57,57,57	0
61	MG	CA	1637	1/1	0.27	-	52,52,52,52	0
61	MG	BA	3066	1/1	0.94	-	50,50,50,50	0
61	MG	AA	1625	1/1	0.35	-	51,51,51,51	0
61	MG	BA	3185	1/1	0.62	-	50,50,50,50	0
61	MG	DA	3205	1/1	0.55	-	57,57,57,57	0
61	MG	BF	301	1/1	0.22	-	47,47,47,47	0
61	MG	DA	3035	1/1	0.42	-	50,50,50,50	0
61	MG	DA	3281	1/1	0.37	-	57,57,57,57	0
61	MG	BA	3316	1/1	0.51	-	55,55,55,55	0
61	MG	BA	3135	1/1	0.70	-	58,58,58,58	0
61	MG	DA	3015	1/1	0.54	-	53,53,53,53	0
61	MG	AA	1644	1/1	0.38	-	49,49,49,49	0
61	MG	CA	1752	1/1	0.16	-	55,55,55,55	1
61	MG	DA	3173	1/1	0.26	-	58,58,58,58	0
61	MG	CA	1756	1/1	0.36	-	55,55,55,55	1
61	MG	DB	202	1/1	0.74	-	55,55,55,55	0
61	MG	DA	3102	1/1	0.75	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3192	1/1	0.31	-	65,65,65,65	0
61	MG	AA	1620	1/1	0.31	-	55,55,55,55	0
61	MG	AV	103	1/1	0.20	-	54,54,54,54	1
61	MG	BA	3062	1/1	0.53	-	47,47,47,47	0
61	MG	BA	3054	1/1	0.77	-	47,47,47,47	0
61	MG	BA	3096	1/1	0.44	-	56,56,56,56	0
61	MG	BA	3348	1/1	0.62	-	55,55,55,55	0
61	MG	DA	3165	1/1	0.29	-	47,47,47,47	0
61	MG	AA	1652	1/1	0.35	-	47,47,47,47	0
61	MG	AA	1613	1/1	0.29	-	56,56,56,56	0
61	MG	AA	1669	1/1	0.27	-	47,47,47,47	0
61	MG	DA	3149	1/1	0.23	-	47,47,47,47	0
61	MG	BA	3010	1/1	0.55	-	52,52,52,52	0
61	MG	BA	3112	1/1	0.35	-	48,48,48,48	0
61	MG	AA	1628	1/1	0.37	-	70,70,70,70	0
61	MG	CA	1748	1/1	0.64	-	55,55,55,55	1
61	MG	CA	1703	1/1	0.31	-	47,47,47,47	0
61	MG	BA	3116	1/1	0.38	-	47,47,47,47	0
61	MG	CA	1727	1/1	0.27	-	56,56,56,56	0
61	MG	AA	1702	1/1	0.34	-	47,47,47,47	0
61	MG	CA	1624	1/1	0.42	-	51,51,51,51	0
61	MG	BA	3075	1/1	0.41	-	47,47,47,47	0
61	MG	BA	3083	1/1	0.52	-	47,47,47,47	0
61	MG	DA	3327	1/1	0.50	-	55,55,55,55	0
61	MG	AA	1739	1/1	0.21	-	55,55,55,55	1
61	MG	BA	3119	1/1	0.75	-	49,49,49,49	0
61	MG	DA	3105	1/1	0.83	-	48,48,48,48	0
61	MG	DA	3130	1/1	0.24	-	56,56,56,56	0
61	MG	DA	3203	1/1	0.45	-	47,47,47,47	0
61	MG	AA	1655	1/1	0.40	-	52,52,52,52	0
61	MG	BA	3049	1/1	0.56	-	47,47,47,47	0
61	MG	BA	3202	1/1	0.33	-	47,47,47,47	0
61	MG	DD	302	1/1	0.45	-	47,47,47,47	0
61	MG	CA	1734	1/1	0.24	-	55,55,55,55	1
61	MG	DA	3008	1/1	0.35	-	52,52,52,52	0
61	MG	AA	1638	1/1	0.26	-	52,52,52,52	0
61	MG	CV	105	1/1	0.26	-	50,50,50,50	0
61	MG	AA	1685	1/1	0.30	-	57,57,57,57	0
61	MG	BA	3170	1/1	0.43	-	50,50,50,50	0
61	MG	CA	1666	1/1	0.47	-	57,57,57,57	0
61	MG	AA	1649	1/1	0.17	-	53,53,53,53	0
61	MG	DA	3319	1/1	0.48	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3028	1/1	0.46	-	52,52,52,52	0
61	MG	CA	1676	1/1	0.52	-	58,58,58,58	0
61	MG	CA	1631	1/1	0.82	-	53,53,53,53	0
61	MG	CA	1717	1/1	0.43	-	52,52,52,52	0
61	MG	DA	3262	1/1	0.32	-	52,52,52,52	0
61	MG	DA	3250	1/1	0.43	-	56,56,56,56	0
61	MG	DA	3087	1/1	0.57	-	48,48,48,48	0
61	MG	DA	3007	1/1	0.72	-	53,53,53,53	0
61	MG	BA	3340	1/1	0.55	-	55,55,55,55	0
61	MG	BA	3146	1/1	0.65	-	47,47,47,47	0
61	MG	BA	3136	1/1	0.75	-	50,50,50,50	0
61	MG	BA	3105	1/1	0.48	-	47,47,47,47	0
61	MG	DA	3326	1/1	0.53	-	55,55,55,55	0
61	MG	DA	3264	1/1	0.12	-	56,56,56,56	0
61	MG	CA	1619	1/1	0.21	-	55,55,55,55	0
61	MG	BA	3299	1/1	0.39	-	55,55,55,55	0
61	MG	DA	3180	1/1	0.21	-	52,52,52,52	0
61	MG	CA	1656	1/1	0.78	-	47,47,47,47	0
61	MG	CA	1693	1/1	0.76	-	59,59,59,59	0
61	MG	CA	1623	1/1	0.43	-	48,48,48,48	0
61	MG	BA	3342	1/1	0.29	-	55,55,55,55	0
61	MG	DA	3095	1/1	0.76	-	47,47,47,47	0
61	MG	BA	3029	1/1	0.36	-	55,55,55,55	0
61	MG	DA	3224	1/1	0.48	-	52,52,52,52	0
61	MG	BA	3020	1/1	0.59	-	47,47,47,47	0
61	MG	DA	3033	1/1	0.26	-	53,53,53,53	0
61	MG	DX	101	1/1	0.27	-	55,55,55,55	0
61	MG	DA	3258	1/1	0.74	-	51,51,51,51	1
61	MG	BA	3002	1/1	0.28	-	67,67,67,67	0
61	MG	AA	1696	1/1	0.32	-	62,62,62,62	0
61	MG	BA	3187	1/1	0.39	-	48,48,48,48	0
61	MG	DA	3223	1/1	0.32	-	49,49,49,49	0
61	MG	DB	203	1/1	0.74	-	55,55,55,55	0
61	MG	DA	3078	1/1	0.89	-	51,51,51,51	0
61	MG	BA	3232	1/1	0.48	-	53,53,53,53	0
61	MG	DA	3298	1/1	0.29	-	55,55,55,55	0
61	MG	BA	3113	1/1	0.52	-	47,47,47,47	0
61	MG	BA	3004	1/1	0.26	-	53,53,53,53	0
61	MG	BA	3173	1/1	0.36	-	56,56,56,56	0
61	MG	CA	1723	1/1	0.10	-	55,55,55,55	0
61	MG	BA	3216	1/1	0.29	-	49,49,49,49	0
61	MG	AA	1658	1/1	0.28	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	AA	1722	1/1	0.27	-	55,55,55,55	0
61	MG	BA	3179	1/1	0.38	-	59,59,59,59	0
61	MG	BA	3323	1/1	0.86	-	55,55,55,55	0
61	MG	DA	3226	1/1	0.44	-	51,51,51,51	0
61	MG	AA	1640	1/1	0.43	-	48,48,48,48	0
61	MG	AA	1602	1/1	0.41	-	52,52,52,52	0
61	MG	CA	1685	1/1	0.34	-	47,47,47,47	0
61	MG	AA	1756	1/1	0.14	-	55,55,55,55	1
61	MG	AA	1647	1/1	0.40	-	62,62,62,62	0
61	MG	AA	1657	1/1	0.27	-	54,54,54,54	0
61	MG	AV	106	1/1	0.05	-	57,57,57,57	0
61	MG	CA	1615	1/1	0.66	-	64,64,64,64	0
61	MG	DA	3064	1/1	0.41	-	56,56,56,56	0
61	MG	DA	3003	1/1	0.42	-	67,67,67,67	0
61	MG	BA	3248	1/1	0.26	-	56,56,56,56	1
61	MG	BA	3337	1/1	0.15	-	55,55,55,55	0
61	MG	CA	1690	1/1	0.20	-	59,59,59,59	0
61	MG	DA	3049	1/1	0.44	-	47,47,47,47	0
61	MG	DA	3159	1/1	0.82	-	49,49,49,49	0
61	MG	DA	3345	1/1	0.34	-	55,55,55,55	0
61	MG	DA	3206	1/1	0.33	-	50,50,50,50	0
61	MG	AA	1738	1/1	0.08	-	55,55,55,55	0
61	MG	DA	3303	1/1	0.77	-	55,55,55,55	0
61	MG	DA	3279	1/1	0.29	-	55,55,55,55	0
61	MG	DA	3199	1/1	0.52	-	53,53,53,53	0
61	MG	BA	3038	1/1	0.47	-	51,51,51,51	0
61	MG	BA	3346	1/1	0.44	-	55,55,55,55	0
61	MG	BA	3263	1/1	0.12	-	56,56,56,56	0
61	MG	BA	3082	1/1	0.68	-	51,51,51,51	0
61	MG	BA	3207	1/1	0.56	-	60,60,60,60	0
61	MG	DA	3185	1/1	0.53	-	56,56,56,56	0
61	MG	DA	3134	1/1	0.66	-	64,64,64,64	0
61	MG	BA	3260	1/1	0.16	-	57,57,57,57	0
61	MG	BA	3138	1/1	0.40	-	50,50,50,50	0
61	MG	AA	1661	1/1	0.46	-	52,52,52,52	0
61	MG	AA	1717	1/1	0.24	-	66,66,66,66	0
61	MG	DA	3342	1/1	0.24	-	55,55,55,55	0
61	MG	CA	1711	1/1	0.15	-	55,55,55,55	0
61	MG	AA	1690	1/1	0.64	-	52,52,52,52	0
61	MG	DA	3182	1/1	0.30	-	56,56,56,56	0
61	MG	DA	3121	1/1	0.42	-	50,50,50,50	0
61	MG	DA	3072	1/1	0.24	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3200	1/1	1.00	-	58,58,58,58	0
61	MG	AA	1615	1/1	0.81	-	53,53,53,53	0
61	MG	AA	1711	1/1	0.28	-	47,47,47,47	0
61	MG	BA	3273	1/1	0.47	-	58,58,58,58	0
61	MG	DA	3069	1/1	0.34	-	47,47,47,47	0
61	MG	DA	3141	1/1	0.36	-	56,56,56,56	0
61	MG	AA	1697	1/1	0.36	-	52,52,52,52	0
61	MG	DA	3335	1/1	0.49	-	55,55,55,55	0
61	MG	CA	1749	1/1	0.37	-	55,55,55,55	0
61	MG	CA	1609	1/1	0.34	-	55,55,55,55	0
61	MG	DA	3249	1/1	0.18	-	56,56,56,56	0
61	MG	BA	3080	1/1	0.67	-	52,52,52,52	0
61	MG	DA	3332	1/1	0.52	-	55,55,55,55	0
61	MG	DA	3218	1/1	0.54	-	51,51,51,51	0
61	MG	DA	3024	1/1	0.98	-	49,49,49,49	0
61	MG	CA	1617	1/1	0.34	-	51,51,51,51	0
61	MG	AA	1608	1/1	0.25	-	47,47,47,47	0
61	MG	BA	3271	1/1	0.56	-	51,51,51,51	0
61	MG	D3	101	1/1	0.47	-	58,58,58,58	0
61	MG	DA	3041	1/1	0.36	-	47,47,47,47	0
61	MG	DA	3241	1/1	0.08	-	55,55,55,55	0
61	MG	CA	1660	1/1	0.20	-	58,58,58,58	0
61	MG	BU	201	1/1	0.40	-	48,48,48,48	0
61	MG	BA	3141	1/1	0.56	-	49,49,49,49	0
61	MG	CA	1671	1/1	0.20	-	47,47,47,47	0
61	MG	BA	3008	1/1	0.42	-	55,55,55,55	0
61	MG	AA	1672	1/1	0.22	-	53,53,53,53	0
61	MG	B5	101	1/1	0.34	-	49,49,49,49	0
61	MG	DA	3143	1/1	0.48	-	47,47,47,47	1
61	MG	DA	3052	1/1	0.55	-	51,51,51,51	0
61	MG	CA	1668	1/1	0.83	-	58,58,58,58	0
61	MG	CV	101	1/1	0.57	-	49,49,49,49	0
61	MG	DA	3046	1/1	0.79	-	47,47,47,47	0
61	MG	BA	3227	1/1	0.64	-	55,55,55,55	0
61	MG	AA	1626	1/1	0.28	-	53,53,53,53	0
61	MG	DA	3235	1/1	0.31	-	49,49,49,49	0
61	MG	BA	3058	1/1	0.72	-	55,55,55,55	0
61	MG	DA	3231	1/1	0.52	-	54,54,54,54	1
61	MG	BA	3090	1/1	0.46	-	48,48,48,48	0
61	MG	CA	1658	1/1	0.28	-	49,49,49,49	0
61	MG	CA	1721	1/1	0.28	-	58,58,58,58	0
61	MG	BA	3301	1/1	0.45	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3012	1/1	0.55	-	49,49,49,49	0
61	MG	DA	3100	1/1	0.74	-	55,55,55,55	0
61	MG	DA	3026	1/1	0.45	-	55,55,55,55	0
61	MG	BA	3084	1/1	0.37	-	47,47,47,47	0
61	MG	BA	3015	1/1	0.49	-	47,47,47,47	0
61	MG	CA	1641	1/1	0.38	-	55,55,55,55	0
61	MG	AA	1659	1/1	0.30	-	57,57,57,57	0
61	MG	BA	3239	1/1	0.28	-	55,55,55,55	0
61	MG	BA	3045	1/1	0.83	-	47,47,47,47	0
61	MG	DR	201	1/1	0.33	-	47,47,47,47	0
61	MG	DA	3296	1/1	0.64	-	55,55,55,55	0
61	MG	DA	3090	1/1	0.66	-	48,48,48,48	0
61	MG	BP	201	1/1	0.20	-	49,49,49,49	0
61	MG	AA	1606	1/1	0.38	-	59,59,59,59	0
61	MG	DA	3238	1/1	0.24	-	47,47,47,47	0
61	MG	CA	1745	1/1	0.22	-	55,55,55,55	0
61	MG	DA	3004	1/1	0.40	-	61,61,61,61	0
61	MG	AA	1637	1/1	0.45	-	53,53,53,53	0
61	MG	BA	3235	1/1	0.24	-	60,60,60,60	0
61	MG	AA	1749	1/1	0.37	-	55,55,55,55	0
61	MG	AA	1700	1/1	0.31	-	51,51,51,51	0
61	MG	AA	1667	1/1	0.27	-	47,47,47,47	0
61	MG	CA	1647	1/1	0.23	-	62,62,62,62	0
61	MG	BA	3347	1/1	0.28	-	55,55,55,55	0
61	MG	DA	3315	1/1	0.25	-	55,55,55,55	0
61	MG	AA	1720	1/1	0.48	-	58,58,58,58	1
61	MG	BA	3186	1/1	0.90	-	51,51,51,51	0
61	MG	CA	1667	1/1	0.39	-	47,47,47,47	0
61	MG	DA	3176	1/1	0.41	-	58,58,58,58	0
62	ZN	AN	101	1/1	0.09	-	60,60,60,60	1
61	MG	DA	3306	1/1	0.10	-	55,55,55,55	0
61	MG	CA	1700	1/1	0.25	-	54,54,54,54	0
61	MG	BA	3027	1/1	0.30	-	50,50,50,50	0
61	MG	DA	3323	1/1	0.43	-	55,55,55,55	0
61	MG	BA	3234	1/1	0.79	-	52,52,52,52	0
61	MG	DA	3013	1/1	0.56	-	49,49,49,49	0
61	MG	BA	3272	1/1	0.27	-	59,59,59,59	1
61	MG	BA	3103	1/1	0.58	-	50,50,50,50	0
61	MG	BA	3319	1/1	0.27	-	55,55,55,55	0
61	MG	BB	204	1/1	0.23	-	55,55,55,55	0
61	MG	BA	3037	1/1	0.40	-	47,47,47,47	0
61	MG	AA	1701	1/1	0.28	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	CA	1636	1/1	0.53	-	53,53,53,53	0
61	MG	DA	3174	1/1	0.31	-	52,52,52,52	0
61	MG	DA	3081	1/1	0.55	-	52,52,52,52	0
61	MG	CA	1684	1/1	0.16	-	49,49,49,49	0
61	MG	DA	3227	1/1	0.31	-	56,56,56,56	0
61	MG	DA	3082	1/1	0.78	-	47,47,47,47	0
61	MG	CA	1673	1/1	0.38	-	52,52,52,52	1
61	MG	DA	3234	1/1	0.54	-	47,47,47,47	0
61	MG	DA	3284	1/1	0.89	-	57,57,57,57	0
61	MG	AA	1679	1/1	0.21	-	53,53,53,53	0
61	MG	AA	1630	1/1	0.66	-	51,51,51,51	0
61	MG	BA	3321	1/1	0.18	-	55,55,55,55	0
61	MG	BA	3286	1/1	0.23	-	60,60,60,60	0
61	MG	AA	1687	1/1	0.21	-	48,48,48,48	0
61	MG	DA	3057	1/1	0.67	-	47,47,47,47	0
61	MG	DA	3011	1/1	0.52	-	52,52,52,52	0
61	MG	AA	1619	1/1	0.59	-	49,49,49,49	0
61	MG	DA	3244	1/1	0.50	-	47,47,47,47	0
61	MG	DA	3213	1/1	0.32	-	55,55,55,55	0
61	MG	BA	3076	1/1	0.26	-	48,48,48,48	0
61	MG	DA	3246	1/1	0.22	-	60,60,60,60	0
61	MG	DA	3351	1/1	0.65	-	55,55,55,55	0
61	MG	BA	3297	1/1	0.53	-	55,55,55,55	0
61	MG	CA	1718	1/1	0.42	-	66,66,66,66	0
61	MG	CA	1755	1/1	0.48	-	55,55,55,55	0
61	MG	DA	3337	1/1	0.24	-	55,55,55,55	0
61	MG	DA	3065	1/1	0.56	-	53,53,53,53	0
61	MG	BA	3204	1/1	0.41	-	57,57,57,57	0
61	MG	DA	3066	1/1	0.54	-	52,52,52,52	0
61	MG	CA	1626	1/1	0.17	-	53,53,53,53	0
61	MG	BA	3244	1/1	0.23	-	60,60,60,60	0
61	MG	BA	3140	1/1	0.48	-	56,56,56,56	0
61	MG	BA	3228	1/1	0.74	-	52,52,52,52	0
61	MG	CA	1709	1/1	0.39	-	65,65,65,65	0
61	MG	DA	3267	1/1	0.39	-	54,54,54,54	0
61	MG	AA	1629	1/1	0.23	-	56,56,56,56	0
61	MG	BA	3336	1/1	0.62	-	55,55,55,55	0
61	MG	DA	3188	1/1	0.43	-	48,48,48,48	0
61	MG	BA	3169	1/1	0.56	-	51,51,51,51	0
61	MG	CW	105	1/1	0.48	-	53,53,53,53	0
61	MG	BA	3329	1/1	0.39	-	55,55,55,55	1
61	MG	CA	1688	1/1	0.15	-	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3100	1/1	0.82	-	51,51,51,51	0
61	MG	BA	3043	1/1	0.79	-	47,47,47,47	0
61	MG	DA	3031	1/1	0.73	-	47,47,47,47	0
61	MG	CA	1724	1/1	0.18	-	57,57,57,57	1
61	MG	AA	1645	1/1	0.18	-	57,57,57,57	0
61	MG	CA	1731	1/1	0.31	-	55,55,55,55	0
61	MG	AE	201	1/1	0.76	-	57,57,57,57	0
61	MG	CA	1638	1/1	0.60	-	53,53,53,53	0
61	MG	BA	3092	1/1	0.63	-	50,50,50,50	0
61	MG	BA	3252	1/1	0.33	-	49,49,49,49	0
61	MG	AA	1716	1/1	1.03	-	52,52,52,52	0
61	MG	BA	3003	1/1	0.31	-	61,61,61,61	0
61	MG	BA	3311	1/1	0.39	-	55,55,55,55	0
61	MG	BA	3251	1/1	0.34	-	61,61,61,61	0
61	MG	DD	301	1/1	0.58	-	47,47,47,47	0
61	MG	AA	1662	1/1	0.15	-	52,52,52,52	0
61	MG	BA	3158	1/1	0.85	-	49,49,49,49	0
61	MG	CA	1669	1/1	0.30	-	47,47,47,47	0
61	MG	DA	3171	1/1	0.66	-	51,51,51,51	0
61	MG	AA	1755	1/1	0.64	-	55,55,55,55	0
61	MG	BA	3122	1/1	0.43	-	64,64,64,64	1
61	MG	BA	3217	1/1	0.70	-	51,51,51,51	0
61	MG	DA	3328	1/1	0.38	-	55,55,55,55	1
61	MG	DA	3346	1/1	0.88	-	55,55,55,55	0
61	MG	BA	3237	1/1	0.26	-	67,67,67,67	0
61	MG	AA	1682	1/1	0.15	-	53,53,53,53	0
61	MG	BA	3114	1/1	0.29	-	48,48,48,48	0
61	MG	BA	3175	1/1	0.32	-	49,49,49,49	1
61	MG	CA	1618	1/1	0.30	-	49,49,49,49	0
61	MG	DA	3314	1/1	0.24	-	55,55,55,55	1
61	MG	DA	3300	1/1	0.37	-	55,55,55,55	0
61	MG	DA	3032	1/1	0.25	-	50,50,50,50	0
61	MG	AA	1678	1/1	0.05	-	49,49,49,49	0
61	MG	BA	3274	1/1	0.66	-	63,63,63,63	0
61	MG	BA	3258	1/1	0.38	-	58,58,58,58	0
61	MG	DA	3331	1/1	0.09	-	55,55,55,55	1
61	MG	BA	3247	1/1	0.18	-	59,59,59,59	0
61	MG	AA	1698	1/1	0.35	-	53,53,53,53	1
61	MG	AA	1750	1/1	0.24	-	55,55,55,55	0
61	MG	DA	3077	1/1	0.36	-	48,48,48,48	0
61	MG	AA	1651	1/1	0.70	-	54,54,54,54	0
61	MG	DA	3047	1/1	0.36	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	BA	3268	1/1	0.71	-	59,59,59,59	0
61	MG	AW	103	1/1	0.07	-	54,54,54,54	0
61	MG	DA	3229	1/1	0.37	-	52,52,52,52	0
61	MG	DA	3037	1/1	0.39	-	53,53,53,53	0
61	MG	CW	101	1/1	0.72	-	56,56,56,56	1
61	MG	DA	3142	1/1	0.53	-	49,49,49,49	0
61	MG	DA	3028	1/1	0.39	-	50,50,50,50	0
61	MG	BA	3155	1/1	0.33	-	51,51,51,51	0
61	MG	BA	3051	1/1	0.35	-	51,51,51,51	0
61	MG	CA	1732	1/1	0.17	-	55,55,55,55	0
61	MG	DA	3086	1/1	0.15	-	47,47,47,47	0
61	MG	AA	1746	1/1	0.26	-	55,55,55,55	1
61	MG	BA	3117	1/1	0.44	-	52,52,52,52	0
61	MG	DA	3023	1/1	0.82	-	47,47,47,47	0
61	MG	DA	3343	1/1	0.47	-	55,55,55,55	0
61	MG	BA	3265	1/1	0.45	-	47,47,47,47	0
61	MG	DA	3324	1/1	0.51	-	55,55,55,55	0
61	MG	BA	3110	1/1	0.41	-	49,49,49,49	0
61	MG	DA	3133	1/1	0.34	-	57,57,57,57	0
61	MG	DA	3257	1/1	0.61	-	55,55,55,55	0
61	MG	D5	102	1/1	0.39	-	53,53,53,53	0
61	MG	BA	3290	1/1	0.35	-	57,57,57,57	0
61	MG	AA	1668	1/1	0.59	-	58,58,58,58	0
61	MG	AA	1603	1/1	0.28	-	57,57,57,57	0
61	MG	BA	3304	1/1	0.65	-	55,55,55,55	0
61	MG	BA	3194	1/1	0.27	-	53,53,53,53	0
61	MG	DA	3097	1/1	0.46	-	56,56,56,56	0
61	MG	BA	3181	1/1	0.28	-	53,53,53,53	0
61	MG	DA	3062	1/1	0.44	-	48,48,48,48	0
61	MG	BA	3071	1/1	0.41	-	47,47,47,47	0
61	MG	BA	3069	1/1	0.37	-	48,48,48,48	0
61	MG	DA	3112	1/1	0.33	-	52,52,52,52	0
61	MG	AA	1623	1/1	0.61	-	57,57,57,57	0
61	MG	AA	1664	1/1	0.33	-	60,60,60,60	0
61	MG	BA	3303	1/1	0.76	-	55,55,55,55	0
61	MG	CA	1742	1/1	0.69	-	55,55,55,55	0
61	MG	CA	1616	1/1	0.39	-	54,54,54,54	0
61	MG	BA	3309	1/1	0.23	-	55,55,55,55	0
61	MG	BA	3245	1/1	0.39	-	53,53,53,53	0
61	MG	BA	3106	1/1	0.73	-	51,51,51,51	0
61	MG	AA	1635	1/1	0.14	-	47,47,47,47	0
61	MG	BA	3022	1/1	1.00	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3322	1/1	0.76	-	55,55,55,55	0
61	MG	CA	1645	1/1	0.65	-	50,50,50,50	0
61	MG	DA	3019	1/1	0.58	-	54,54,54,54	0
61	MG	BA	3256	1/1	0.64	-	55,55,55,55	0
61	MG	CA	1744	1/1	0.42	-	55,55,55,55	0
61	MG	DF	303	1/1	0.66	-	59,59,59,59	0
61	MG	BA	3338	1/1	0.32	-	55,55,55,55	0
61	MG	DA	3294	1/1	0.53	-	49,49,49,49	1
61	MG	BA	3104	1/1	0.76	-	48,48,48,48	0
61	MG	BA	3189	1/1	0.37	-	59,59,59,59	0
61	MG	DA	3113	1/1	0.31	-	48,48,48,48	0
61	MG	DA	3317	1/1	0.35	-	55,55,55,55	0
61	MG	BA	3211	1/1	0.26	-	59,59,59,59	1
61	MG	DA	3340	1/1	0.34	-	55,55,55,55	0
61	MG	DA	3214	1/1	0.35	-	58,58,58,58	0
61	MG	CA	1681	1/1	0.60	-	66,66,66,66	0
61	MG	BA	3324	1/1	0.36	-	55,55,55,55	0
61	MG	CA	1607	1/1	0.32	-	47,47,47,47	0
61	MG	AA	1611	1/1	0.52	-	48,48,48,48	0
61	MG	CA	1699	1/1	0.19	-	53,53,53,53	1
61	MG	DA	3029	1/1	0.32	-	52,52,52,52	0
61	MG	CA	1687	1/1	0.41	-	58,58,58,58	0
61	MG	DA	3219	1/1	0.40	-	66,66,66,66	0
61	MG	DA	3045	1/1	0.43	-	56,56,56,56	0
61	MG	DA	3266	1/1	0.51	-	47,47,47,47	0
61	MG	BA	3126	1/1	0.30	-	52,52,52,52	0
61	MG	CA	1654	1/1	0.72	-	57,57,57,57	0
61	MG	BA	3335	1/1	0.54	-	55,55,55,55	0
61	MG	CA	1601	1/1	0.30	-	56,56,56,56	0
61	MG	CV	103	1/1	0.26	-	54,54,54,54	0
61	MG	CA	1702	1/1	0.34	-	51,51,51,51	0
61	MG	BA	3333	1/1	0.71	-	55,55,55,55	0
61	MG	DA	3002	1/1	0.92	-	54,54,54,54	1
61	MG	BA	3241	1/1	0.25	-	61,61,61,61	1
61	MG	BA	3190	1/1	0.45	-	54,54,54,54	0
61	MG	BA	3078	1/1	0.67	-	56,56,56,56	0
61	MG	BA	3133	1/1	0.34	-	64,64,64,64	0
61	MG	BA	3176	1/1	0.58	-	48,48,48,48	0
61	MG	BA	3264	1/1	0.57	-	53,53,53,53	0
61	MG	DA	3071	1/1	0.31	-	50,50,50,50	0
61	MG	CA	1640	1/1	0.77	-	47,47,47,47	0
61	MG	BA	3196	1/1	0.44	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	CA	1713	1/1	0.37	-	54,54,54,54	0
61	MG	DA	3254	1/1	0.28	-	54,54,54,54	0
61	MG	BA	3283	1/1	0.38	-	65,65,65,65	0
61	MG	BA	3131	1/1	0.40	-	59,59,59,59	0
61	MG	DA	3091	1/1	0.39	-	48,48,48,48	0
61	MG	DA	3313	1/1	0.78	-	55,55,55,55	0
61	MG	BA	3121	1/1	0.25	-	50,50,50,50	0
61	MG	CA	1664	1/1	0.43	-	60,60,60,60	0
61	MG	CA	1613	1/1	0.26	-	52,52,52,52	0
61	MG	BA	3059	1/1	0.27	-	48,48,48,48	0
61	MG	BA	3307	1/1	0.38	-	55,55,55,55	0
61	MG	BA	3099	1/1	0.76	-	55,55,55,55	0
61	MG	AA	1618	1/1	0.21	-	51,51,51,51	1
61	MG	BA	3318	1/1	0.29	-	55,55,55,55	0
61	MG	BA	3296	1/1	0.60	-	55,55,55,55	0
61	MG	CA	1649	1/1	0.42	-	47,47,47,47	0
61	MG	CA	1611	1/1	0.25	-	52,52,52,52	0
61	MG	BA	3167	1/1	0.30	-	53,53,53,53	0
61	MG	BA	3197	1/1	0.46	-	58,58,58,58	0
61	MG	BA	3111	1/1	0.31	-	52,52,52,52	0
61	MG	B1	101	1/1	0.47	-	55,55,55,55	0
61	MG	DF	301	1/1	0.26	-	47,47,47,47	0
61	MG	BA	3206	1/1	0.28	-	47,47,47,47	0
61	MG	BA	3041	1/1	0.64	-	47,47,47,47	0
61	MG	BA	3127	1/1	0.25	-	56,56,56,56	0
61	MG	DA	3283	1/1	0.46	-	65,65,65,65	0
61	MG	AY	401	1/1	0.52	-	55,55,55,55	0
61	MG	DA	3252	1/1	0.45	-	61,61,61,61	1
61	MG	BA	3161	1/1	0.34	-	47,47,47,47	0
61	MG	AA	1731	1/1	0.23	-	55,55,55,55	0
61	MG	DA	3291	1/1	0.68	-	54,54,54,54	0
61	MG	AA	1706	1/1	0.23	-	51,51,51,51	0
61	MG	DA	3056	1/1	0.45	-	47,47,47,47	0
61	MG	CV	104	1/1	0.08	-	54,54,54,54	0
61	MG	BA	3001	1/1	0.34	-	54,54,54,54	0
61	MG	DA	3334	1/1	0.32	-	55,55,55,55	0
61	MG	BA	3257	1/1	0.27	-	51,51,51,51	0
61	MG	DA	3222	1/1	0.70	-	53,53,53,53	0
61	MG	DA	3233	1/1	0.61	-	53,53,53,53	0
61	MG	BA	3139	1/1	0.49	-	50,50,50,50	0
61	MG	CA	1715	1/1	0.60	-	59,59,59,59	0
61	MG	AA	1733	1/1	0.25	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3261	1/1	0.24	-	57,57,57,57	0
61	MG	DA	3067	1/1	0.62	-	50,50,50,50	0
61	MG	BA	3097	1/1	0.33	-	47,47,47,47	0
61	MG	AA	1703	1/1	0.24	-	62,62,62,62	0
61	MG	DA	3093	1/1	0.73	-	50,50,50,50	0
61	MG	AA	1624	1/1	0.29	-	48,48,48,48	0
61	MG	BA	3118	1/1	0.50	-	49,49,49,49	0
61	MG	AA	1693	1/1	0.52	-	61,61,61,61	0
61	MG	BA	3030	1/1	0.62	-	47,47,47,47	0
61	MG	CA	1627	1/1	0.24	-	70,70,70,70	0
61	MG	AA	1704	1/1	0.25	-	49,49,49,49	1
61	MG	DA	3117	1/1	0.27	-	47,47,47,47	0
61	MG	DA	3098	1/1	0.26	-	47,47,47,47	0
61	MG	AA	1757	1/1	0.35	-	55,55,55,55	0
61	MG	BA	3344	1/1	0.89	-	55,55,55,55	0
61	MG	BA	3259	1/1	0.28	-	59,59,59,59	0
61	MG	CA	1739	1/1	0.16	-	55,55,55,55	0
61	MG	BA	3017	1/1	0.54	-	52,52,52,52	0
61	MG	BA	3275	1/1	0.38	-	59,59,59,59	0
61	MG	BA	3013	1/1	0.41	-	47,47,47,47	0
61	MG	CA	1674	1/1	0.21	-	50,50,50,50	0
61	MG	AA	1601	1/1	0.22	-	56,56,56,56	0
61	MG	DA	3043	1/1	1.00	-	47,47,47,47	0
61	MG	DA	3318	1/1	0.18	-	55,55,55,55	0
61	MG	DA	3292	1/1	0.52	-	55,55,55,55	0
61	MG	AA	1631	1/1	0.24	-	47,47,47,47	0
61	MG	AA	1709	1/1	0.54	-	50,50,50,50	0
61	MG	CA	1691	1/1	0.65	-	52,52,52,52	0
61	MG	DA	3339	1/1	0.33	-	55,55,55,55	0
61	MG	BA	3039	1/1	0.25	-	68,68,68,68	0
61	MG	BA	3341	1/1	0.54	-	55,55,55,55	0
61	MG	DA	3289	1/1	0.47	-	54,54,54,54	0
61	MG	CA	1729	1/1	0.30	-	55,55,55,55	1
61	MG	BA	3288	1/1	0.23	-	66,66,66,66	0
61	MG	BA	3325	1/1	0.34	-	55,55,55,55	0
61	MG	CA	1719	1/1	0.35	-	55,55,55,55	1
61	MG	BA	3182	1/1	0.39	-	49,49,49,49	0
61	MG	DA	3021	1/1	0.52	-	47,47,47,47	0
61	MG	BA	3137	1/1	0.59	-	52,52,52,52	0
61	MG	CA	1672	1/1	0.40	-	53,53,53,53	0
61	MG	DA	3157	1/1	0.35	-	48,48,48,48	0
61	MG	BA	3254	1/1	0.63	-	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	AM	201	1/1	0.50	-	47,47,47,47	0
61	MG	CA	1662	1/1	0.29	-	52,52,52,52	0
61	MG	BA	3053	1/1	0.18	-	51,51,51,51	0
61	MG	BA	3180	1/1	0.43	-	56,56,56,56	0
61	MG	AA	1634	1/1	0.67	-	52,52,52,52	0
61	MG	BS	201	1/1	0.42	-	55,55,55,55	0
61	MG	DA	3107	1/1	0.63	-	51,51,51,51	0
61	MG	DA	3184	1/1	0.53	-	49,49,49,49	0
61	MG	DA	3297	1/1	0.43	-	55,55,55,55	0
61	MG	DA	3151	1/1	0.51	-	51,51,51,51	0
61	MG	BA	3101	1/1	0.71	-	47,47,47,47	0
61	MG	BA	3065	1/1	0.27	-	52,52,52,52	0
61	MG	BA	3073	1/1	0.41	-	52,52,52,52	0
61	MG	CA	1710	1/1	0.33	-	50,50,50,50	0
61	MG	BA	3026	1/1	0.42	-	47,47,47,47	0
61	MG	DA	3309	1/1	0.46	-	55,55,55,55	1
61	MG	AA	1616	1/1	0.51	-	64,64,64,64	0
61	MG	BA	3199	1/1	0.64	-	58,58,58,58	0
61	MG	BA	3284	1/1	0.68	-	57,57,57,57	0
61	MG	CA	1679	1/1	0.36	-	53,53,53,53	1
61	MG	DA	3290	1/1	0.42	-	57,57,57,57	0
61	MG	DA	3190	1/1	0.27	-	59,59,59,59	0
61	MG	BA	3231	1/1	0.38	-	51,51,51,51	0
61	MG	AA	1639	1/1	0.24	-	53,53,53,53	0
61	MG	BA	3328	1/1	0.59	-	55,55,55,55	0
61	MG	BA	3153	1/1	0.46	-	53,53,53,53	0
61	MG	BA	3052	1/1	0.54	-	47,47,47,47	0
61	MG	AA	1663	1/1	0.26	-	51,51,51,51	0
61	MG	DA	3232	1/1	0.14	-	51,51,51,51	0
61	MG	AA	1614	1/1	0.09	-	52,52,52,52	0
61	MG	CA	1603	1/1	0.33	-	61,61,61,61	0
61	MG	AA	1730	1/1	0.43	-	55,55,55,55	0
61	MG	AW	105	1/1	0.17	-	53,53,53,53	0
61	MG	AA	1692	1/1	0.68	-	59,59,59,59	0
61	MG	DA	3243	1/1	0.12	-	61,61,61,61	1
61	MG	BA	3281	1/1	0.47	-	57,57,57,57	0
61	MG	BA	3016	1/1	0.88	-	47,47,47,47	0
61	MG	BH	201	1/1	0.14	-	50,50,50,50	0
61	MG	DA	3127	1/1	0.33	-	52,52,52,52	0
61	MG	CA	1665	1/1	0.46	-	50,50,50,50	0
61	MG	DA	3321	1/1	0.23	-	55,55,55,55	0
61	MG	AA	1641	1/1	0.44	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3061	1/1	0.48	-	47,47,47,47	0
61	MG	DA	3068	1/1	0.44	-	50,50,50,50	0
61	MG	AA	1674	1/1	0.19	-	50,50,50,50	0
61	MG	DA	3038	1/1	0.60	-	47,47,47,47	0
61	MG	DA	3268	1/1	0.90	-	59,59,59,59	0
61	MG	BA	3233	1/1	0.58	-	47,47,47,47	0
61	MG	DA	3333	1/1	0.38	-	55,55,55,55	0
61	MG	DA	3189	1/1	0.17	-	57,57,57,57	0
61	MG	CA	1655	1/1	0.68	-	52,52,52,52	0
61	MG	BA	3031	1/1	0.22	-	50,50,50,50	0
61	MG	DA	3079	1/1	0.54	-	56,56,56,56	0
61	MG	BA	3242	1/1	0.40	-	47,47,47,47	0
61	MG	CA	1652	1/1	0.88	-	60,60,60,60	0
61	MG	AA	1752	1/1	0.17	-	55,55,55,55	0
61	MG	AA	1708	1/1	0.31	-	65,65,65,65	0
61	MG	DA	3096	1/1	0.54	-	60,60,60,60	0
61	MG	AA	1715	1/1	0.23	-	55,55,55,55	0
61	MG	BA	3243	1/1	0.45	-	53,53,53,53	0
61	MG	DA	3270	1/1	0.61	-	67,67,67,67	0
61	MG	DA	3251	1/1	0.19	-	52,52,52,52	0
61	MG	AA	1727	1/1	0.64	-	55,55,55,55	0
61	MG	DA	3287	1/1	0.44	-	51,51,51,51	0
61	MG	DA	3211	1/1	0.54	-	57,57,57,57	0
61	MG	CA	1747	1/1	0.29	-	55,55,55,55	1
61	MG	AA	1686	1/1	0.52	-	58,58,58,58	1
61	MG	BA	3154	1/1	0.37	-	48,48,48,48	0
61	MG	CA	1694	1/1	0.56	-	61,61,61,61	0
61	MG	CA	1733	1/1	0.51	-	55,55,55,55	0
61	MG	DA	3277	1/1	0.76	-	57,57,57,57	0
61	MG	BA	3327	1/1	0.48	-	55,55,55,55	0
61	MG	BB	203	1/1	0.70	-	55,55,55,55	0
61	MG	DA	3330	1/1	0.21	-	55,55,55,55	0
61	MG	DA	3060	1/1	0.42	-	48,48,48,48	0
61	MG	BA	3292	1/1	0.67	-	55,55,55,55	0
61	MG	CA	1678	1/1	0.13	-	49,49,49,49	0
61	MG	BA	3213	1/1	0.35	-	58,58,58,58	0
61	MG	AA	1684	1/1	0.17	-	49,49,49,49	0
61	MG	BA	3174	1/1	0.36	-	58,58,58,58	0
61	MG	BA	3089	1/1	0.56	-	48,48,48,48	0
61	MG	B3	101	1/1	0.54	-	58,58,58,58	0
61	MG	DA	3027	1/1	0.49	-	47,47,47,47	0
61	MG	DA	3236	1/1	0.89	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3207	1/1	0.48	-	47,47,47,47	0
61	MG	BA	3166	1/1	0.11	-	47,47,47,47	0
61	MG	BA	3108	1/1	0.70	-	52,52,52,52	0
61	MG	BA	3150	1/1	0.49	-	51,51,51,51	0
61	MG	DA	3204	1/1	0.30	-	52,52,52,52	0
61	MG	DA	3075	1/1	0.50	-	47,47,47,47	0
61	MG	CA	1720	1/1	0.16	-	56,56,56,56	0
61	MG	CA	1602	1/1	0.23	-	52,52,52,52	0
61	MG	DA	3030	1/1	0.49	-	55,55,55,55	0
61	MG	DA	3242	1/1	0.21	-	58,58,58,58	1
61	MG	DA	3177	1/1	0.57	-	49,49,49,49	0
62	ZN	D9	101	1/1	0.10	-	55,55,55,55	1
61	MG	CA	1716	1/1	0.30	-	55,55,55,55	0
61	MG	DA	3164	1/1	0.70	-	53,53,53,53	0
61	MG	DA	3293	1/1	0.22	-	52,52,52,52	0
61	MG	BA	3064	1/1	0.53	-	53,53,53,53	0
61	MG	DA	3285	1/1	0.27	-	55,55,55,55	0
61	MG	BA	3191	1/1	0.22	-	61,61,61,61	0
61	MG	BA	3210	1/1	0.43	-	57,57,57,57	0
61	MG	DA	3132	1/1	0.27	-	59,59,59,59	0
61	MG	AA	1736	1/1	0.26	-	55,55,55,55	0
61	MG	BA	3198	1/1	0.63	-	53,53,53,53	0
61	MG	DA	3212	1/1	0.23	-	59,59,59,59	0
61	MG	DA	3158	1/1	0.47	-	53,53,53,53	0
61	MG	DA	3140	1/1	0.36	-	50,50,50,50	1
61	MG	DA	3101	1/1	0.52	-	51,51,51,51	0
61	MG	DA	3275	1/1	0.65	-	59,59,59,59	0
61	MG	BA	3044	1/1	0.87	-	56,56,56,56	0
61	MG	CA	1608	1/1	0.36	-	52,52,52,52	0
61	MG	CA	1704	1/1	0.64	-	62,62,62,62	0
61	MG	AA	1627	1/1	0.30	-	53,53,53,53	0
61	MG	BA	3326	1/1	0.85	-	55,55,55,55	0
61	MG	BA	3048	1/1	0.57	-	47,47,47,47	0
61	MG	BA	3021	1/1	0.37	-	47,47,47,47	0
61	MG	DA	3191	1/1	0.28	-	54,54,54,54	0
61	MG	BA	3215	1/1	0.71	-	60,60,60,60	0
61	MG	DA	3080	1/1	0.52	-	49,49,49,49	0
61	MG	AA	1705	1/1	0.22	-	51,51,51,51	0
61	MG	BA	3220	1/1	0.65	-	54,54,54,54	0
61	MG	DA	3310	1/1	0.27	-	55,55,55,55	0
61	MG	BA	3224	1/1	0.38	-	51,51,51,51	0
61	MG	DA	3311	1/1	0.64	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	AA	1636	1/1	0.18	-	49,49,49,49	0
61	MG	DA	3352	1/1	0.55	-	55,55,55,55	0
61	MG	DA	3183	1/1	0.22	-	53,53,53,53	0
61	MG	BA	3162	1/1	0.84	-	50,50,50,50	0
61	MG	DA	3336	1/1	0.24	-	55,55,55,55	1
61	MG	AA	1695	1/1	0.28	-	62,62,62,62	0
61	MG	BA	3024	1/1	0.66	-	56,56,56,56	0
61	MG	AA	1712	1/1	0.44	-	54,54,54,54	0
61	MG	BA	3132	1/1	0.31	-	57,57,57,57	0
61	MG	DA	3051	1/1	0.18	-	47,47,47,47	0
61	MG	BA	3334	1/1	0.30	-	55,55,55,55	0
61	MG	AA	1721	1/1	0.44	-	55,55,55,55	1
61	MG	CA	1698	1/1	0.35	-	52,52,52,52	0
61	MG	BA	3278	1/1	0.33	-	51,51,51,51	0
61	MG	BA	3218	1/1	0.51	-	66,66,66,66	0
61	MG	CA	1741	1/1	0.51	-	55,55,55,55	0
61	MG	CA	1736	1/1	0.60	-	55,55,55,55	0
61	MG	CA	1725	1/1	0.37	-	59,59,59,59	0
61	MG	CA	1726	1/1	0.79	-	54,54,54,54	0
61	MG	DA	3150	1/1	0.63	-	54,54,54,54	0
61	MG	DA	3122	1/1	0.40	-	50,50,50,50	0
61	MG	AA	1744	1/1	0.28	-	55,55,55,55	0
61	MG	DA	3210	1/1	0.50	-	66,66,66,66	0
61	MG	BA	3148	1/1	0.18	-	47,47,47,47	0
61	MG	DA	3118	1/1	0.38	-	52,52,52,52	0
61	MG	BA	3270	1/1	0.71	-	67,67,67,67	0
61	MG	DA	3167	1/1	0.27	-	47,47,47,47	0
61	MG	DA	3156	1/1	0.35	-	51,51,51,51	0
61	MG	DA	3018	1/1	0.48	-	52,52,52,52	0
61	MG	CA	1751	1/1	0.28	-	55,55,55,55	0
61	MG	DA	3116	1/1	0.40	-	50,50,50,50	0
61	MG	BA	3067	1/1	0.32	-	50,50,50,50	0
61	MG	DA	3325	1/1	0.91	-	55,55,55,55	0
61	MG	CA	1635	1/1	0.39	-	49,49,49,49	0
61	MG	DA	3304	1/1	0.71	-	55,55,55,55	0
61	MG	D5	101	1/1	0.16	-	49,49,49,49	0
61	MG	DA	3025	1/1	0.77	-	56,56,56,56	0
61	MG	DA	3259	1/1	0.31	-	58,58,58,58	0
61	MG	CA	1677	1/1	0.25	-	55,55,55,55	1
61	MG	DA	3138	1/1	0.51	-	52,52,52,52	0
61	MG	DA	3111	1/1	0.25	-	49,49,49,49	0
61	MG	BA	3300	1/1	0.36	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	AW	101	1/1	0.70	-	56,56,56,56	1
61	MG	CA	1653	1/1	0.07	-	53,53,53,53	0
61	MG	BA	3221	1/1	0.67	-	53,53,53,53	0
61	MG	BA	3285	1/1	0.27	-	55,55,55,55	0
61	MG	CA	1746	1/1	0.21	-	55,55,55,55	0
61	MG	CA	1701	1/1	0.49	-	51,51,51,51	0
61	MG	DQ	201	1/1	0.69	-	55,55,55,55	0
61	MG	CA	1697	1/1	0.14	-	62,62,62,62	0
61	MG	BA	3178	1/1	0.29	-	52,52,52,52	0
61	MG	BA	3124	1/1	0.31	-	49,49,49,49	0
61	MG	CA	1612	1/1	0.29	-	56,56,56,56	0
61	MG	DA	3170	1/1	0.49	-	49,49,49,49	1
61	MG	DA	3114	1/1	0.40	-	47,47,47,47	0
61	MG	DA	3153	1/1	0.14	-	50,50,50,50	0
61	MG	DA	3220	1/1	0.83	-	49,49,49,49	0
61	MG	DA	3042	1/1	0.75	-	47,47,47,47	0
61	MG	BA	3042	1/1	0.99	-	47,47,47,47	0
61	MG	DA	3197	1/1	0.56	-	47,47,47,47	0
61	MG	DA	3005	1/1	0.46	-	53,53,53,53	0
61	MG	BA	3314	1/1	0.26	-	55,55,55,55	0
61	MG	BA	3201	1/1	0.46	-	52,52,52,52	0
61	MG	DA	3271	1/1	0.47	-	51,51,51,51	0
61	MG	BA	3063	1/1	0.24	-	56,56,56,56	0
61	MG	CA	1642	1/1	0.58	-	56,56,56,56	0
61	MG	CA	1706	1/1	0.19	-	51,51,51,51	0
61	MG	DA	3178	1/1	0.51	-	48,48,48,48	0
61	MG	DA	3301	1/1	0.62	-	55,55,55,55	0
61	MG	DA	3053	1/1	0.60	-	47,47,47,47	0
61	MG	CA	1737	1/1	0.35	-	55,55,55,55	1
61	MG	BA	3151	1/1	0.29	-	47,47,47,47	0
61	MG	BA	3088	1/1	0.58	-	48,48,48,48	0
61	MG	DA	3074	1/1	0.43	-	52,52,52,52	0
61	MG	BA	3023	1/1	0.78	-	49,49,49,49	0
61	MG	BA	3152	1/1	0.12	-	50,50,50,50	0
61	MG	AA	1714	1/1	0.52	-	59,59,59,59	0
61	MG	CA	1650	1/1	0.68	-	54,54,54,54	0
61	MG	DA	3144	1/1	0.31	-	57,57,57,57	0
61	MG	DU	201	1/1	0.48	-	48,48,48,48	0
61	MG	BA	3018	1/1	0.57	-	54,54,54,54	0
61	MG	AA	1689	1/1	0.84	-	59,59,59,59	1
61	MG	BQ	201	1/1	0.72	-	55,55,55,55	0
61	MG	DA	3253	1/1	0.34	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
61	MG	DA	3209	1/1	0.47	-	51,51,51,51	0
61	MG	DA	3307	1/1	0.26	-	55,55,55,55	0
61	MG	DA	3248	1/1	0.14	-	59,59,59,59	1
61	MG	CA	1689	1/1	0.25	-	63,63,63,63	1
61	MG	AA	1741	1/1	0.50	-	55,55,55,55	0
61	MG	BA	3145	1/1	0.33	-	47,47,47,47	0
61	MG	B7	102	1/1	0.33	-	54,54,54,54	0
61	MG	BA	3055	1/1	0.65	-	47,47,47,47	0
61	MG	CA	1757	1/1	0.17	-	55,55,55,55	0
61	MG	DA	3152	1/1	0.41	-	47,47,47,47	0
61	MG	BA	3129	1/1	0.33	-	56,56,56,56	0
61	MG	CA	1682	1/1	0.11	-	53,53,53,53	0
61	MG	DA	3202	1/1	0.67	-	52,52,52,52	1
61	MG	AA	1723	1/1	0.28	-	57,57,57,57	0
61	MG	BA	3011	1/1	0.26	-	47,47,47,47	0
61	MG	CA	1604	1/1	0.21	-	50,50,50,50	0
61	MG	BA	3147	1/1	0.41	-	51,51,51,51	0
62	ZN	CN	102	1/1	0.12	-	60,60,60,60	0
61	MG	CA	1695	1/1	0.36	-	56,56,56,56	0
61	MG	BA	3061	1/1	0.54	-	48,48,48,48	0
61	MG	DA	3181	1/1	0.61	-	59,59,59,59	0
61	MG	DA	3036	1/1	0.43	-	55,55,55,55	0
61	MG	BA	3050	1/1	0.33	-	47,47,47,47	0

## 6.5 Other polymers ⓘ

There are no such residues in this entry.